

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032119\
 Data File : BN004870.D
 Acq On : 22 Mar 2019 03:02
 Operator : JU/SJ
 Sample : K1817-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-026-B022-031819

Quant Time: Mar 22 04:52:05 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	7.70	152	1772	0.40	ng	0.00
7) Naphthalene-d8	10.49	136	8180	0.40	ng	0.00
13) Acenaphthene-d10	14.33	164	5330	0.40	ng	-0.01
19) Phenanthrene-d10	17.09	188	13952	0.40	ng	0.00
27) Chrysene-d12	21.29	240	18372	0.40	ng	0.00
34) Perylene-d12	23.54	264	20337	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.29	112	1418	0.29	ng	0.00
5) Phenol-d6	6.88	99	1905	0.32	ng	0.00
8) Nitrobenzene-d5	8.87	82	1251	0.23	ng	0.00
11) 2-Methylnaphthalene-d10	12.08	152	3558	0.25	ng	0.00
14) 2,4,6-Tribromophenol	15.85	330	1127	0.31	ng	0.00
15) 2-Fluorobiphenyl	12.96	172	5756	0.26	ng	0.00
25) Fluoranthene-d10	19.13	212	10981	0.24	ng	0.00
29) Terphenyl-d14	19.72	244	10311	0.27	ng	0.00

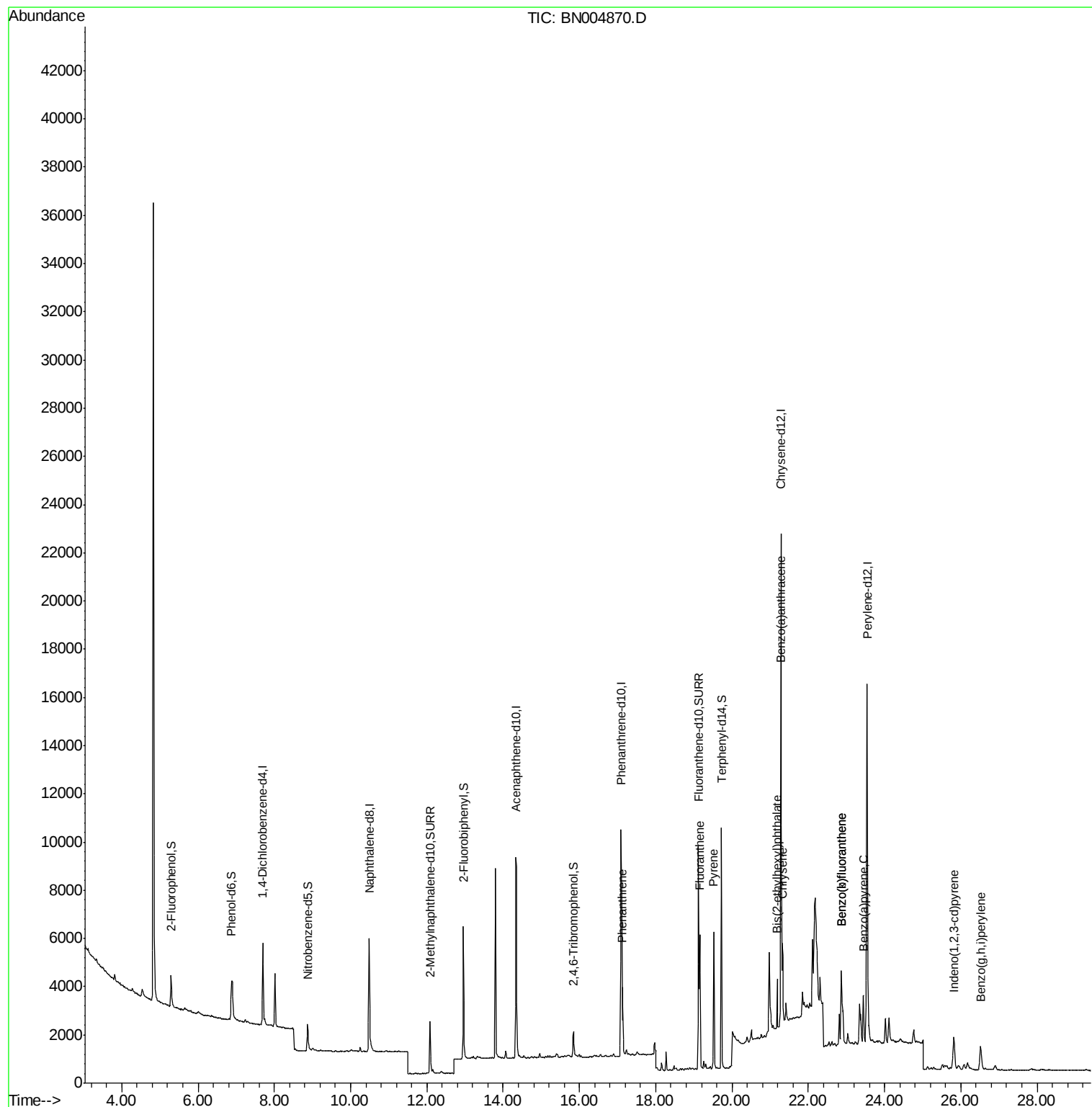
Target Compounds				Qvalue		
23) Phenanthrene	17.13	178	2969	0.066	ng	98
26) Fluoranthene	19.16	202	5195	0.090	ng	98
28) Pyrene	19.52	202	5402	0.096	ng	97
30) Benzo(a)anthracene	21.28	228	2503	0.042	ng	# 87
31) Chrysene	21.32	228	3166	0.050	ng	# 91
32) Bis(2-ethylhexyl)phthalate	21.18	149	1764	0.073	ng	100
33) Indeno(1,2,3-cd)pyrene	25.82	276	2107	0.023	ng	# 94
35) Benzo(b)fluoranthene	22.87	252	4159	0.057	ng	# 51
36) Benzo(k)fluoranthene	22.87	252	4159	0.057	ng	# 51
37) Benzo(a)pyrene	23.45	252	2826	0.042	ng	# 58
39) Benzo(a,h,i)perylene	26.52	276	2180	0.027	ng	# 80

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.70 min Scan# 580

Delta R.T. 0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

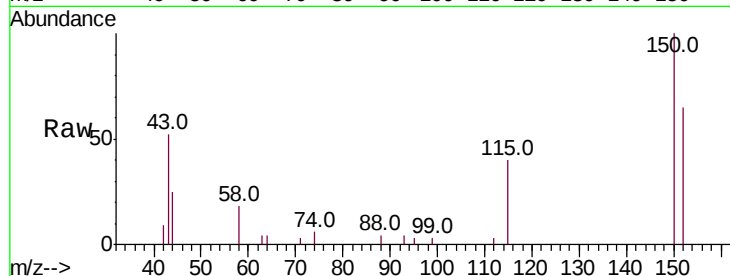
Tot Ion:152 Resp: 1772

Ion Ratio Lower Upper

152 100

150 153.3 126.2 189.4

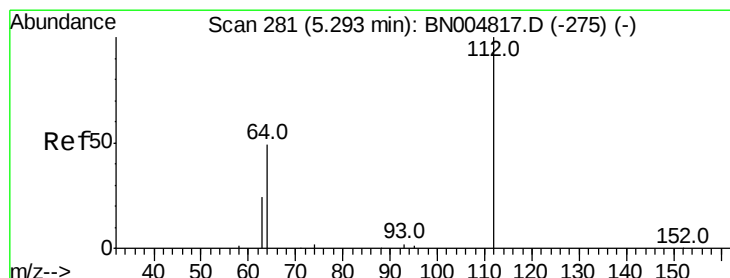
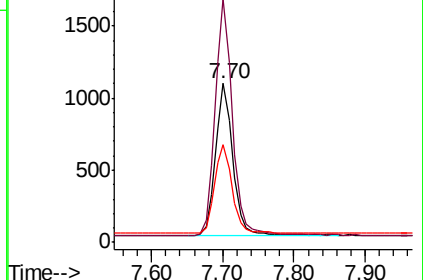
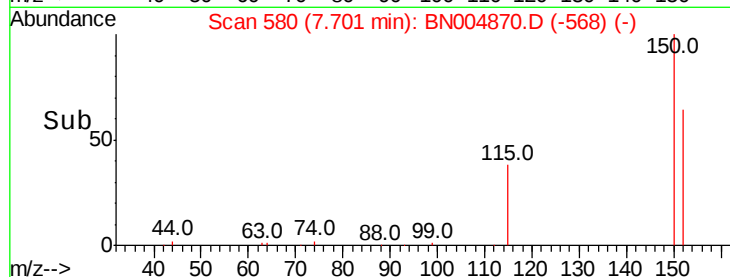
115 61.6 52.6 79.0



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: 0.294 ng

RT: 5.29 min Scan# 281

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

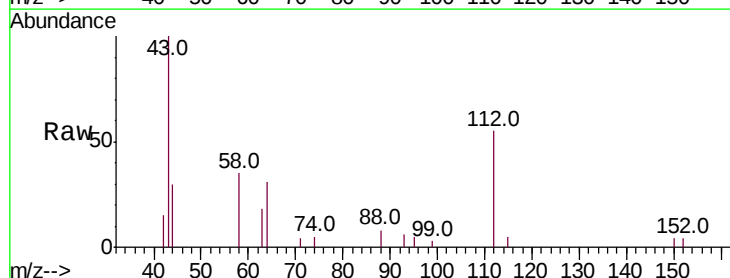
Tgt Ion:112 Resp: 1418

Ion Ratio Lower Upper

112 100

64 50.9 40.0 60.0

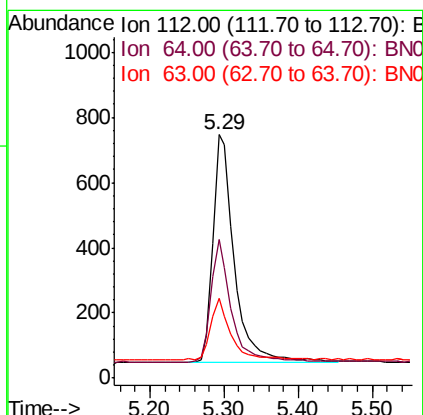
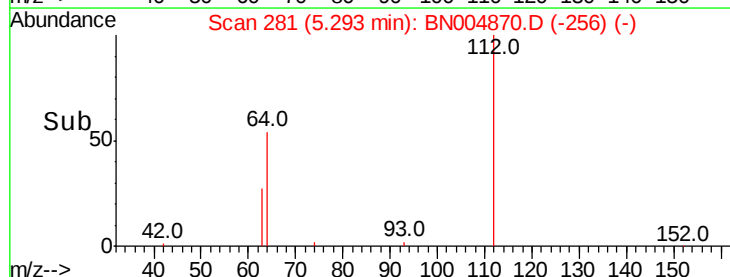
63 25.5 20.2 30.2



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: 0.318 ng

RT: 6.88 min Scan# 478

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

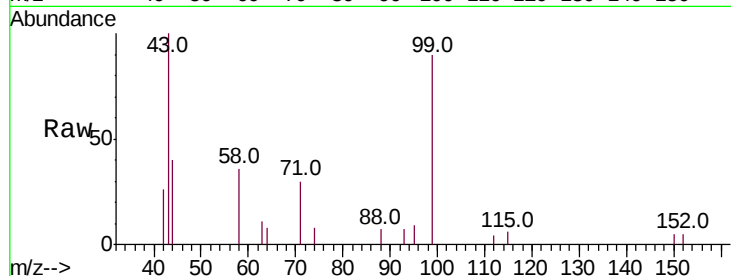
Tot Ion: 99 Resp: 1905

Ion Ratio Lower Upper

99 100

42 20.3 12.7 19.1#

71 32.1 26.6 40.0



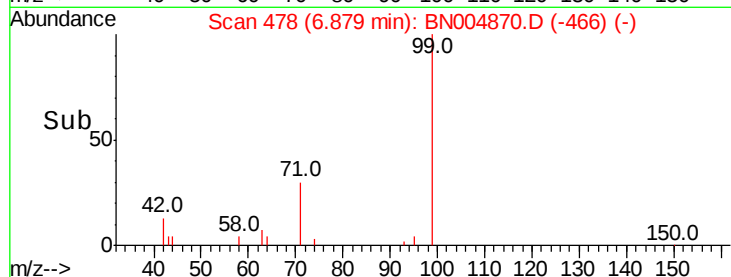
Abundance Ion 99.00 (98.70 to 99.70): BN004870.D (-471) (-)

Ion 42.00 (41.70 to 42.70): BN004870.D (-471) (-)

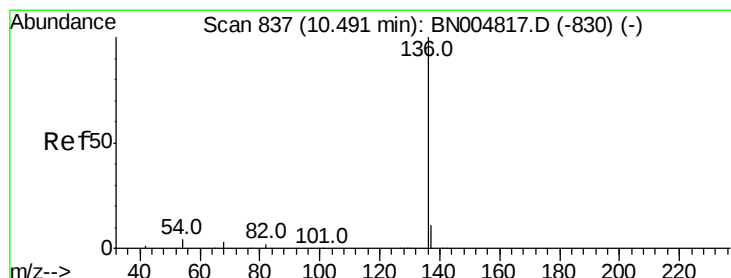
Ion 71.00 (70.70 to 71.70): BN004870.D (-471) (-)

6.88

Time-->



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.49 min Scan# 837

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Tgt Ion: 136 Resp: 8180

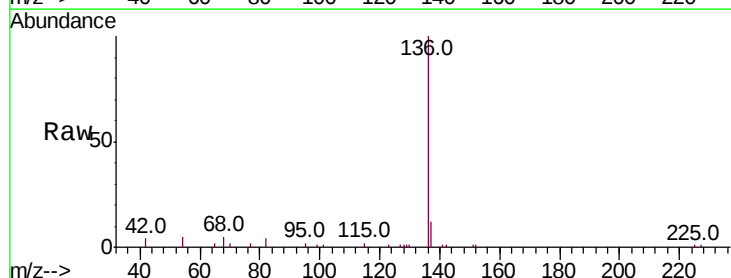
Ion Ratio Lower Upper

136 100

137 12.2 9.6 14.4

54 5.1 4.2 6.2

68 4.6 3.9 5.9



Abundance Ion 136.00 (135.70 to 136.70): BN004870.D (-830) (-)

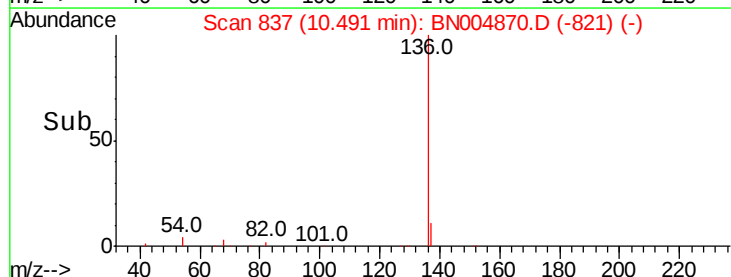
Ion 137.00 (136.70 to 137.70): BN004870.D (-830) (-)

Ion 54.00 (53.70 to 54.70): BN004870.D (-830) (-)

Ion 68.00 (67.70 to 68.70): BN004870.D (-830) (-)

10.49

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 0.231 ng

RT: 8.87 min Scan# 709

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

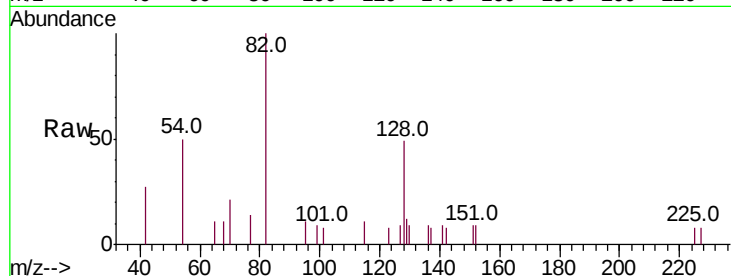
Tot Ion: 82 Resp: 1251

Ion Ratio Lower Upper

82 100

128 49.2 43.0 64.6

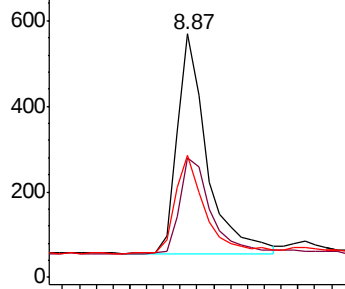
54 50.1 35.3 52.9



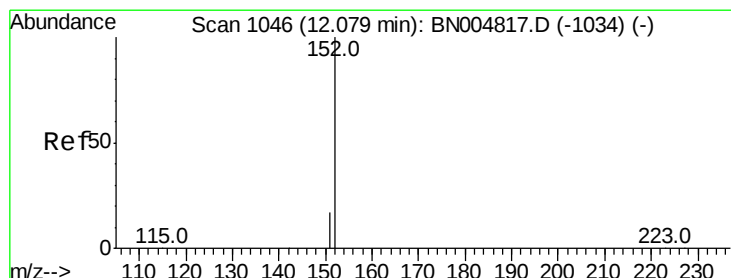
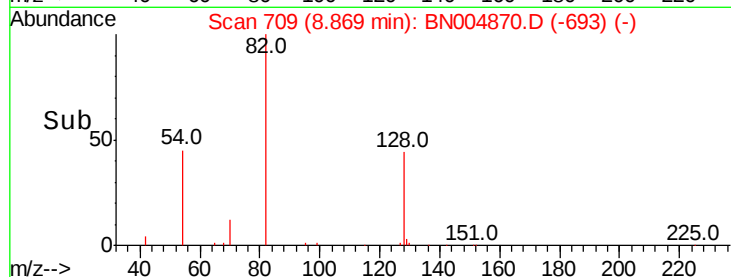
Abundance Ion 82.00 (81.70 to 82.70): BN004870.D (-693) (-)

Ion 128.00 (127.70 to 128.70): BN004870.D (-693) (-)

Ion 54.00 (53.70 to 54.70): BN004870.D (-693) (-)



Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.249 ng

RT: 12.08 min Scan# 1047

Delta R.T. 0.00 min

Lab File: BN004870.D

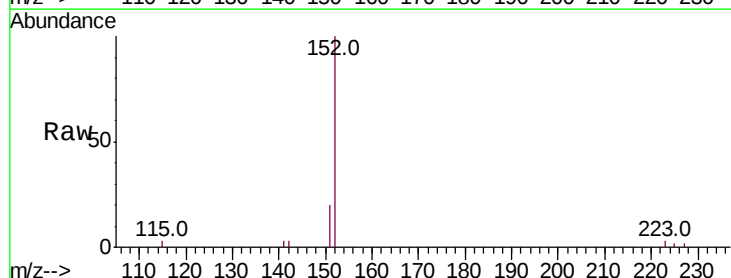
Acq: 22 Mar 2019 03:02

Tgt Ion: 152 Resp: 3558

Ion Ratio Lower Upper

152 100

151 19.1 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

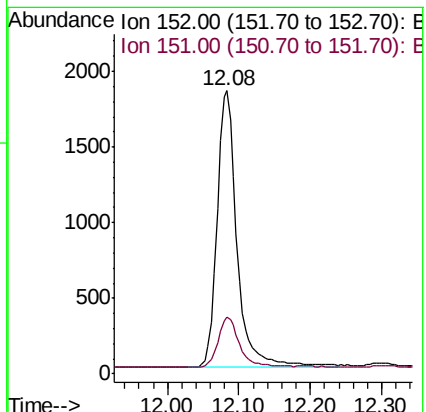
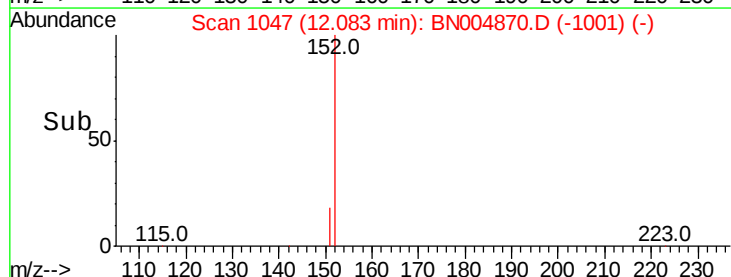
Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)

Ion 152.00 (151.70 to 152.70): BN004870.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004870.D (-1001) (-)

Ion 115.00 (114.70 to 115.70): BN004870.D (-1001) (-)

Ion 223.00 (222.70 to 223.70): BN004870.D (-1001) (-)



Time-->



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

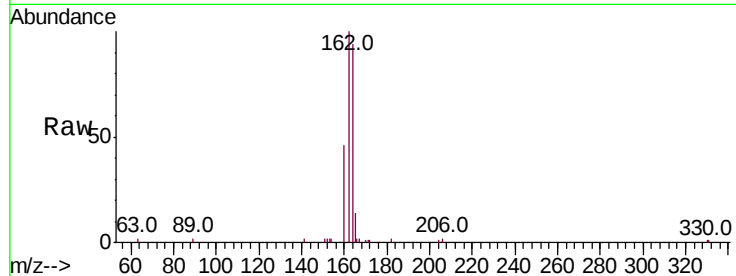
Tot Ion:164 Resp: 5330

Ion Ratio Lower Upper

164 100

162 105.9 81.9 122.9

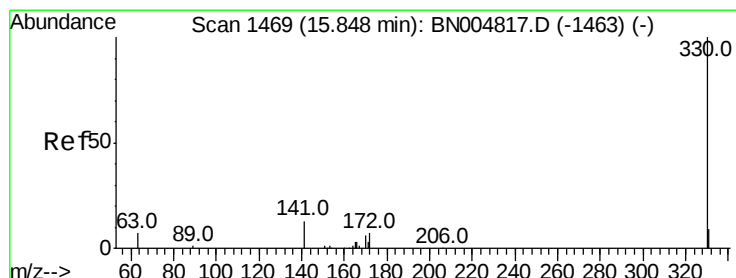
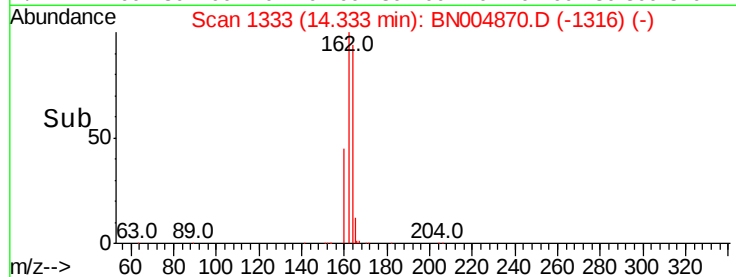
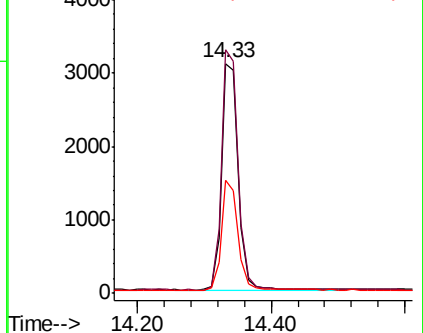
160 48.9 36.6 54.8



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: 0.306 ng

RT: 15.85 min Scan# 1469

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

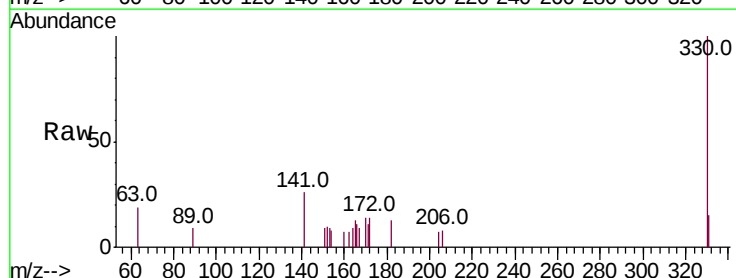
Tgt Ion:330 Resp: 1127

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

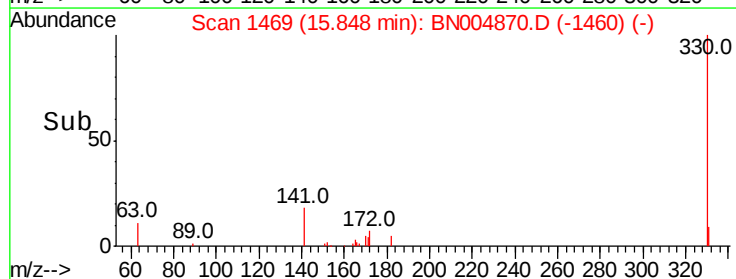
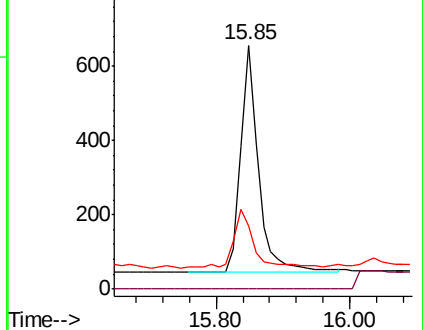
141 27.5 20.9 31.3



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

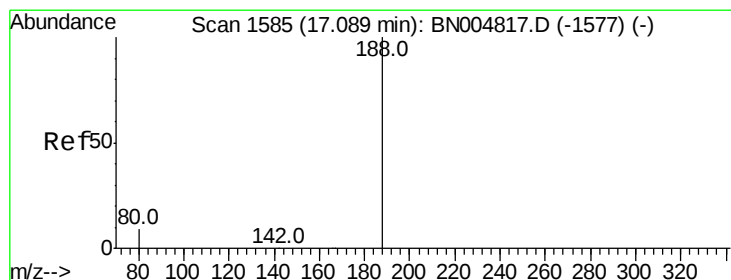
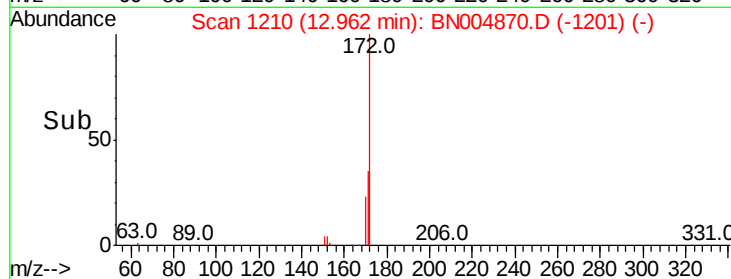
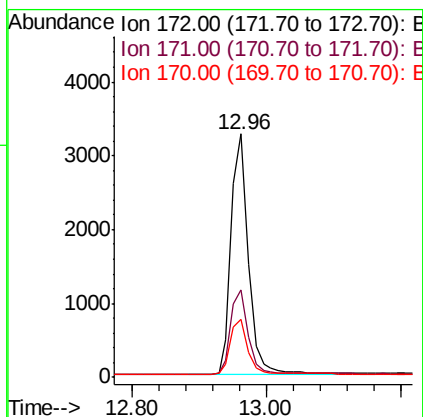
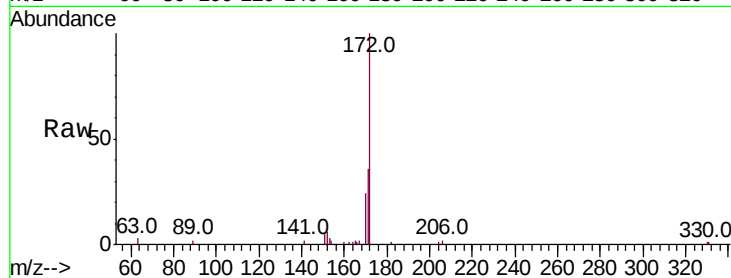




#15
2-Fluorobiphenyl
Concen: 0.261 ng
RT: 12.96 min Scan# 1210
Delta R.T. -0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

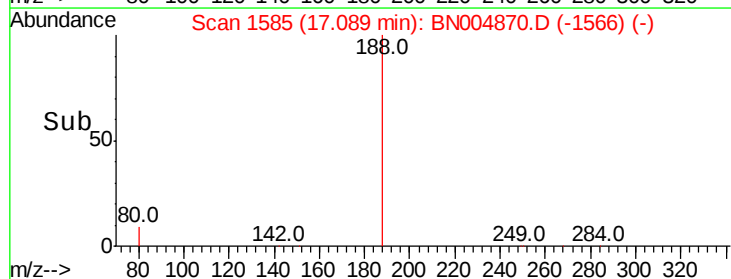
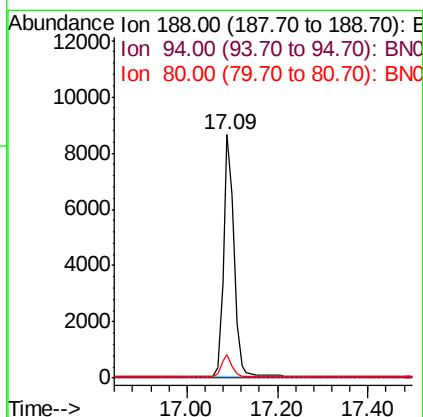
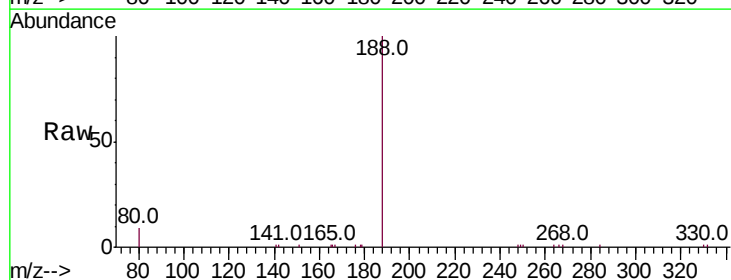
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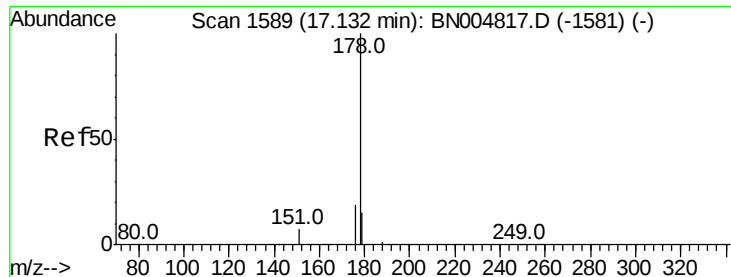
Tot Ion:172 Resp: 5756
Ion Ratio Lower Upper
172 100
171 35.8 28.7 43.1
170 23.6 18.7 28.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.09 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Tgt Ion:188 Resp: 13952
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 7.4 11.2





#23

Phenanthrene

Concen: 0.066 ng

RT: 17.13 min Scan# 1589

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

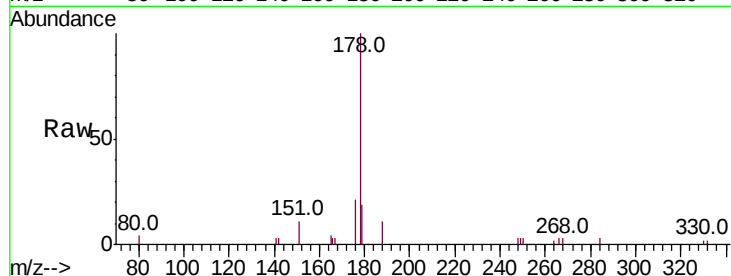
BNA_N

ClientSampleId :

PST-026-B022-031819

Tot Ion:178 Resp: 2969

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	16.8	12.1	18.1

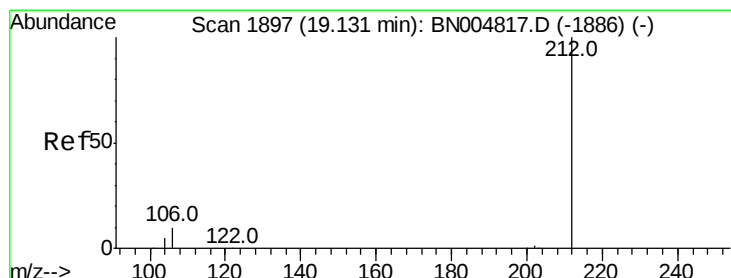
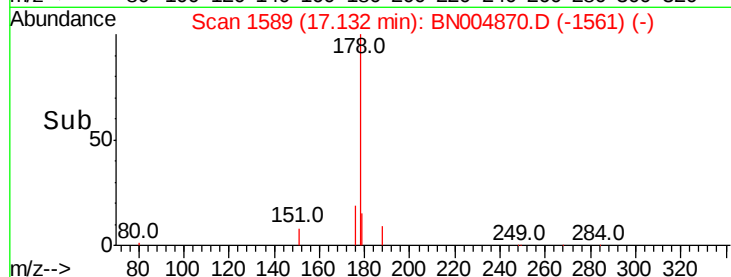
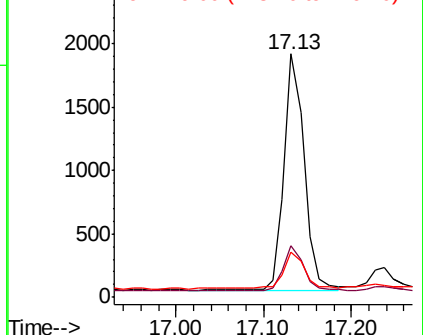


Abundance

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



#25

Fluoranthene-d10

Concen: 0.235 ng

RT: 19.13 min Scan# 1896

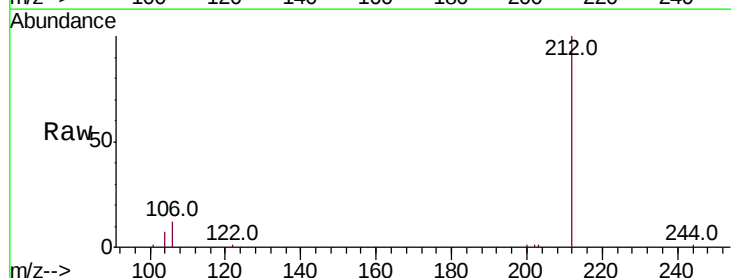
Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Tgt Ion:212 Resp: 10981

Ion	Ratio	Lower	Upper
212	100		
106	11.0	8.6	13.0
104	6.3	4.7	7.1

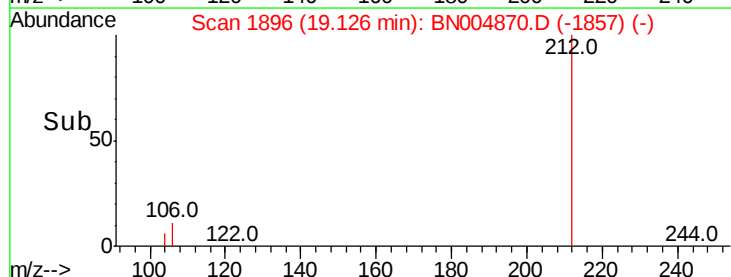
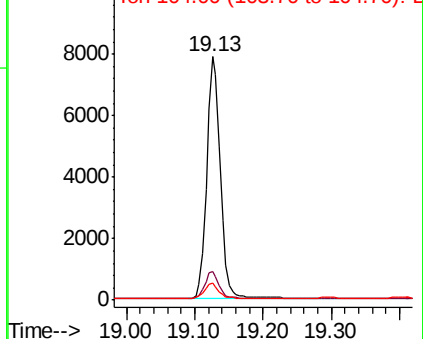


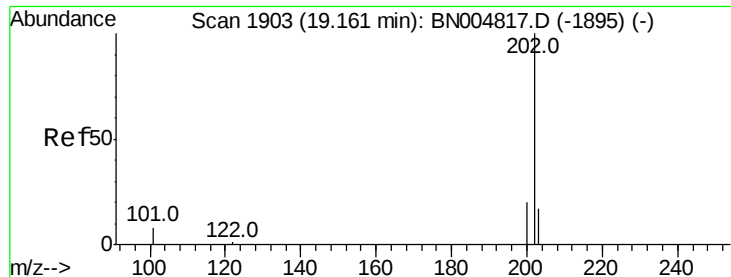
Abundance

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

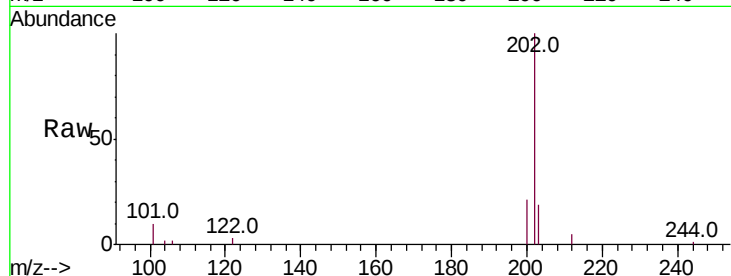




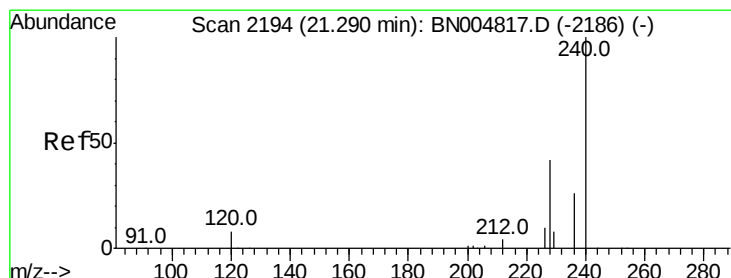
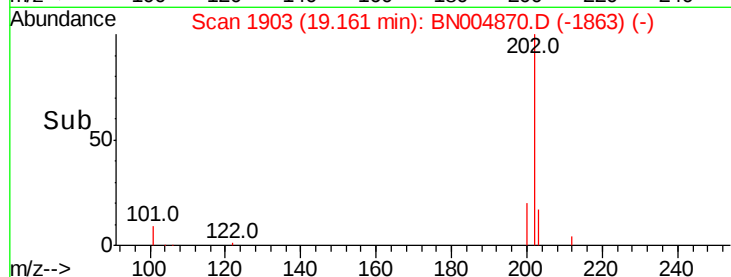
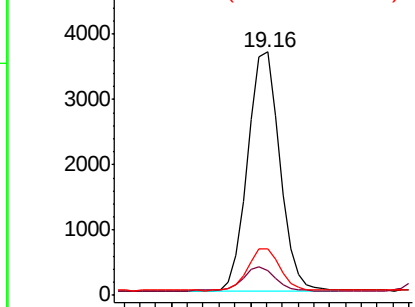
#26
Fluoranthene
Concen: 0.090 ng
RT: 19.16 min Scan# 1903
Delta R.T. -0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Instrument :
BNA_N
ClientSampleId :
PST-026-B022-031819

Tot Ion:202 Resp: 5195
Ion Ratio Lower Upper
202 100
101 10.8 7.5 11.3
203 17.7 13.8 20.6

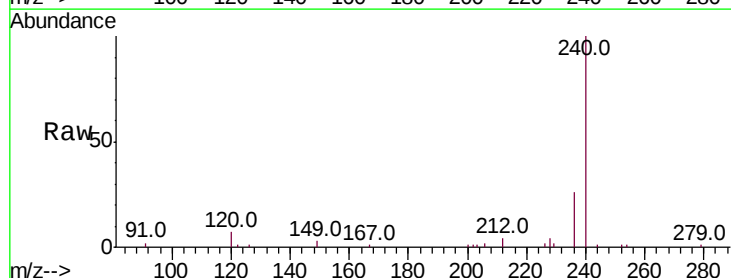


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

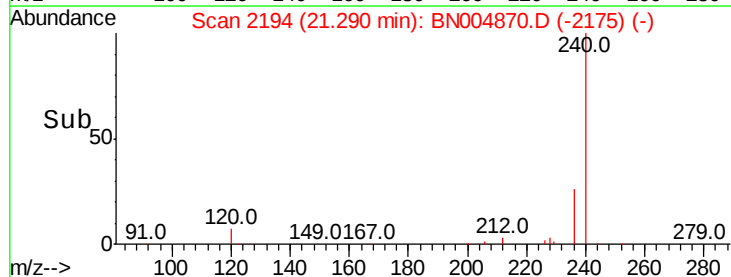
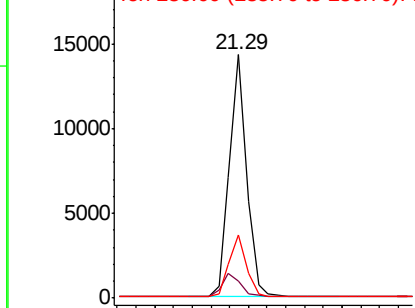


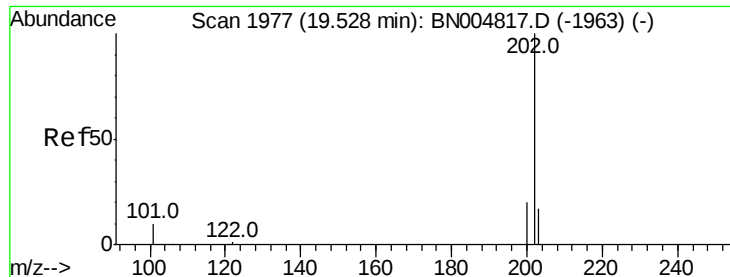
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.29 min Scan# 2194
Delta R.T. 0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Tgt Ion:240 Resp: 18372
Ion Ratio Lower Upper
240 100
120 7.3 7.2 10.8
236 25.9 20.9 31.3



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

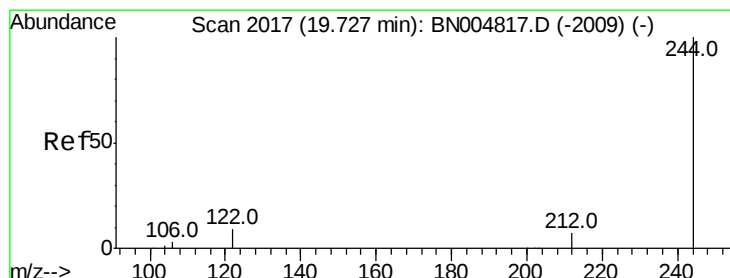
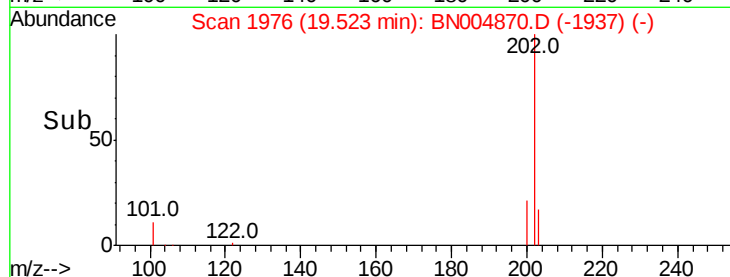
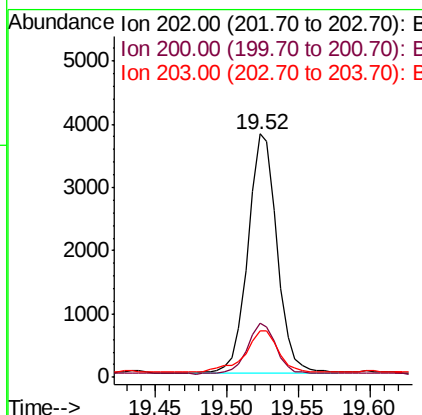
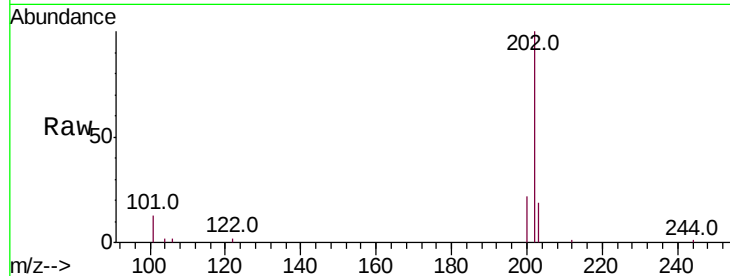




#28
Pvrene
Concen: 0.096 ng
RT: 19.52 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

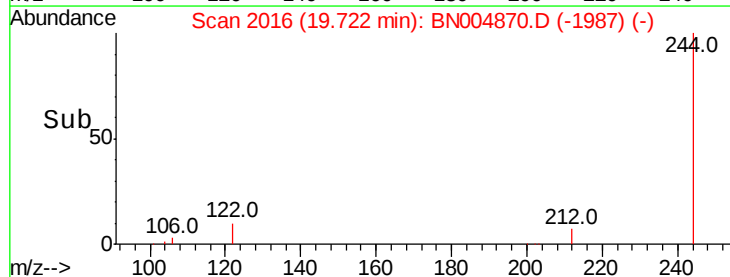
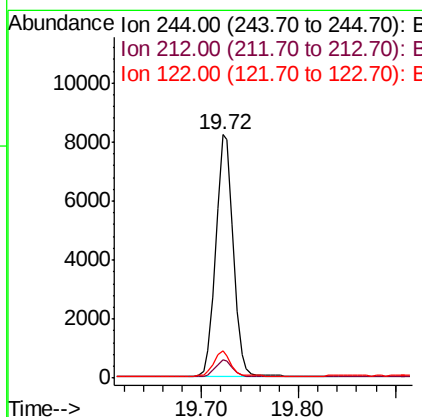
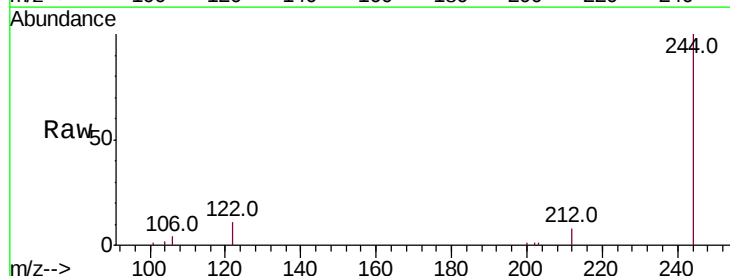
Instrument :
BNA_N
ClientSampleId :
PST-026-B022-031819

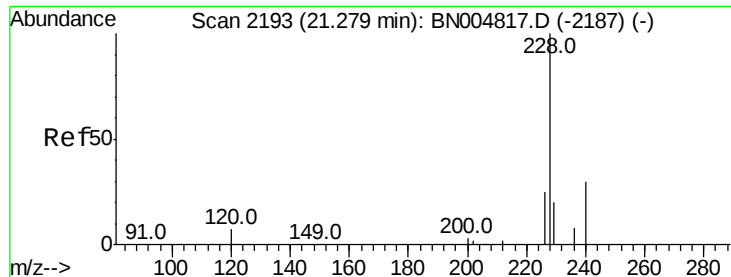
Tot Ion:202 Resp: 5402
Ion Ratio Lower Upper
202 100
200 20.7 16.3 24.5
203 20.1 14.0 21.0



#29
Terphenyl-d14
Concen: 0.274 ng
RT: 19.72 min Scan# 2016
Delta R.T. -0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Tgt Ion:244 Resp: 10311
Ion Ratio Lower Upper
244 100
212 7.5 5.8 8.6
122 11.0 7.9 11.9





#30

Benzo(a)anthracene

Concen: 0.042 ng

RT: 21.28 min Scan# 2193

Delta R.T. -0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

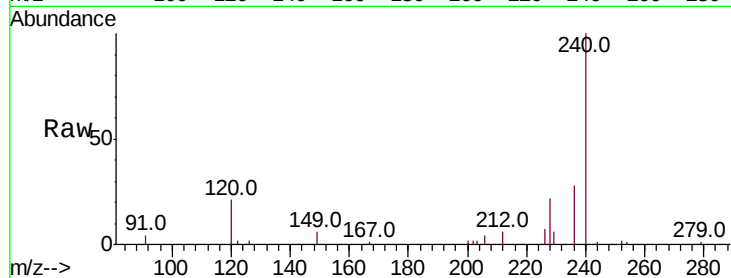
Tot Ion:228 Resp: 2503

Ion Ratio Lower Upper

228 100

226 32.1 20.6 31.0#

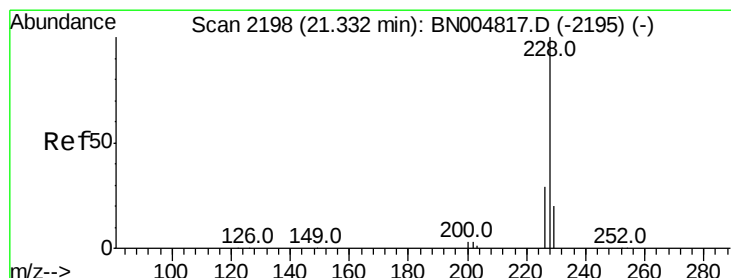
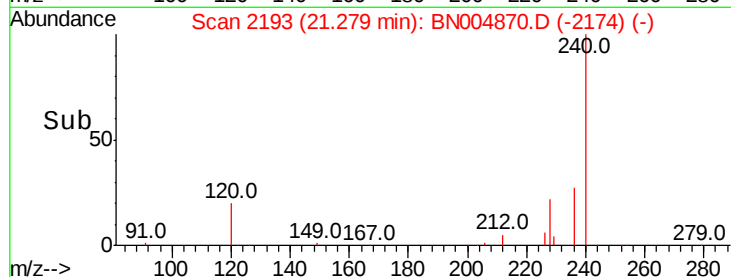
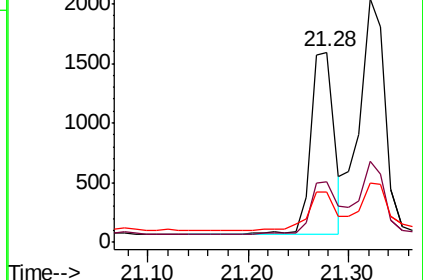
229 26.6 16.2 24.4#



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: 0.050 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

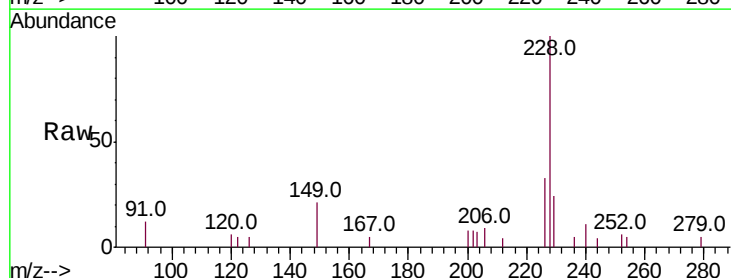
Tgt Ion:228 Resp: 3166

Ion Ratio Lower Upper

228 100

226 33.2 23.0 34.6

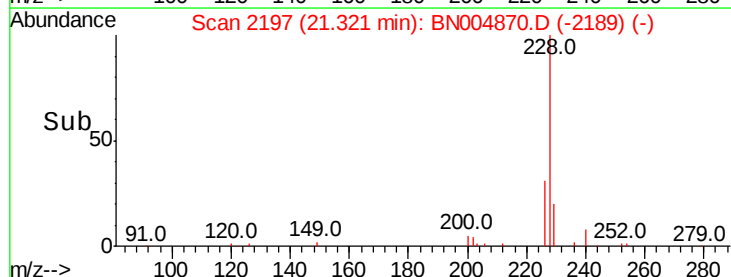
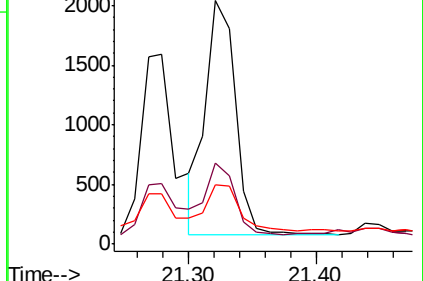
229 24.4 16.2 24.2#

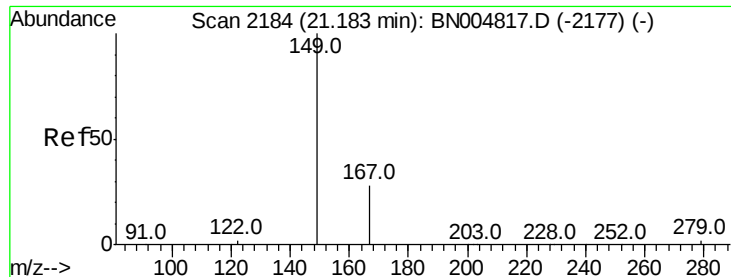


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.073 ng

RT: 21.18 min Scan# 2184

Delta R.T. 0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

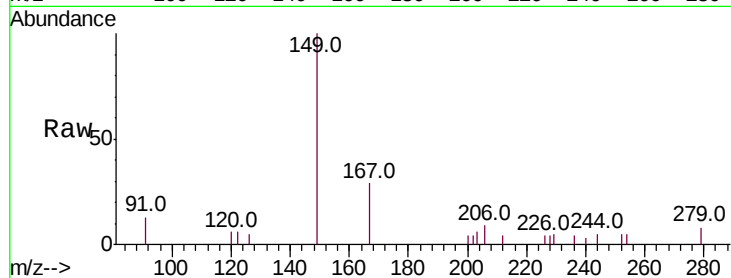
Tot Ion:149 Resp: 1764

Ion Ratio Lower Upper

149 100

167 28.7 23.0 34.4

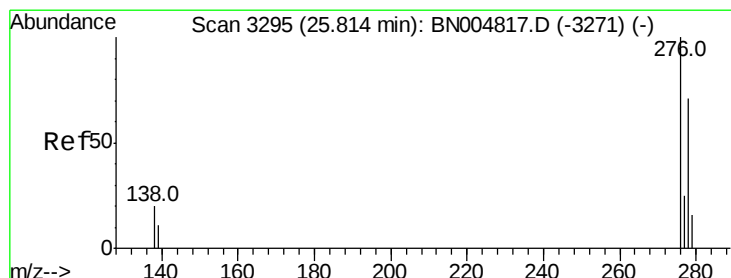
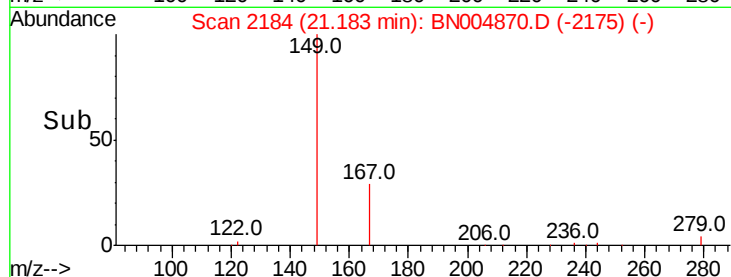
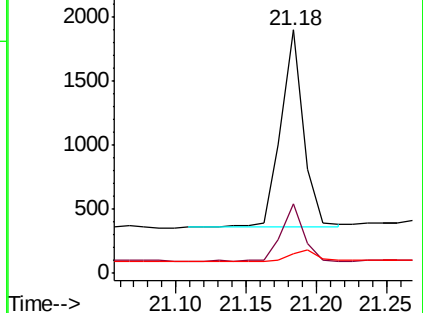
279 6.3 4.6 6.8



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: 0.023 ng

RT: 25.82 min Scan# 3296

Delta R.T. 0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

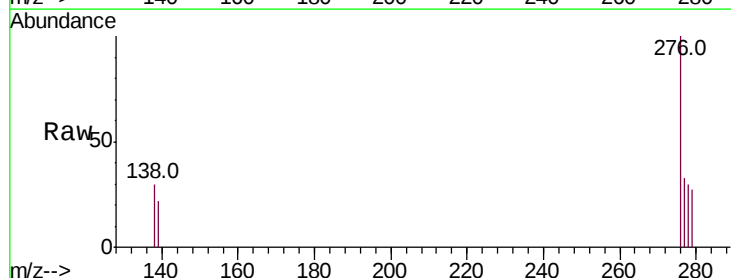
Tgt Ion:276 Resp: 2107

Ion Ratio Lower Upper

276 100

138 25.1 16.6 24.8#

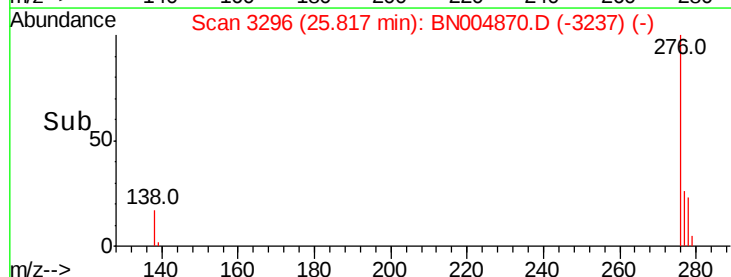
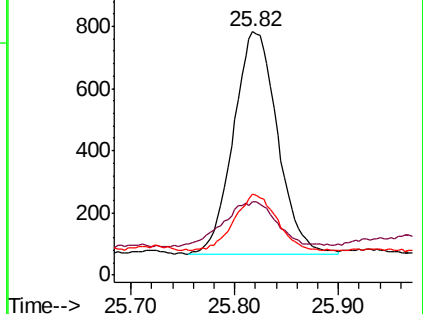
277 23.7 20.3 30.5

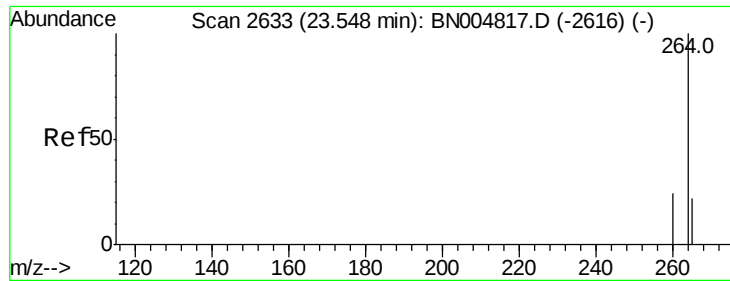


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



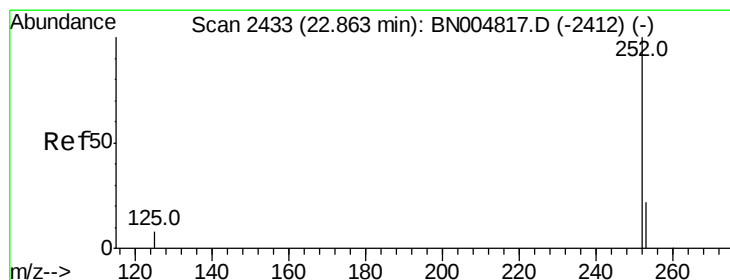
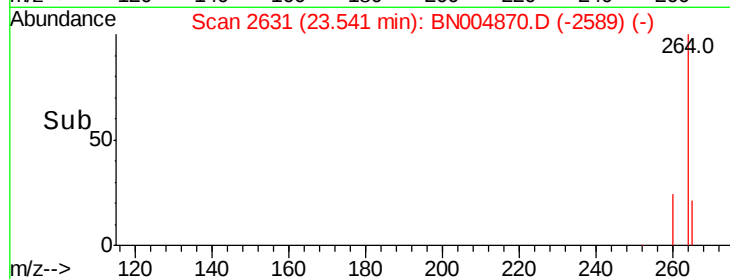
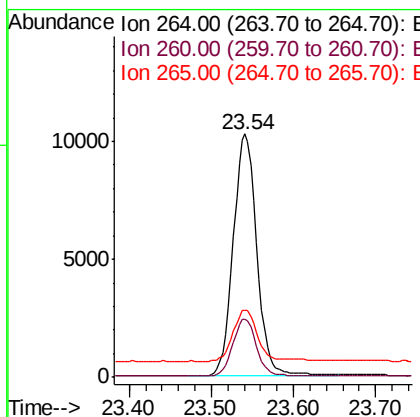
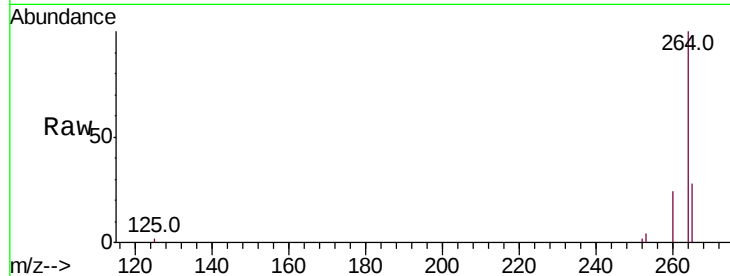


#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.54 min Scan# 2631
Delta R.T. -0.01 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Instrument :
BNA_N
ClientSampleId :
PST-026-B022-031819

Tot Ion:264 Resp: 20337

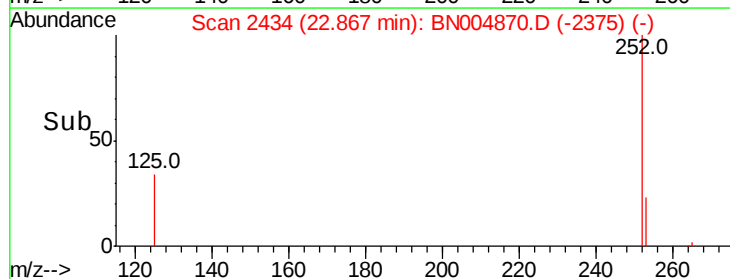
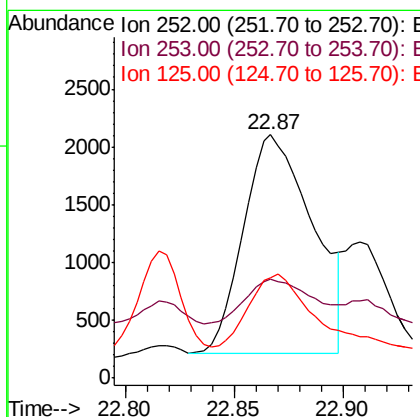
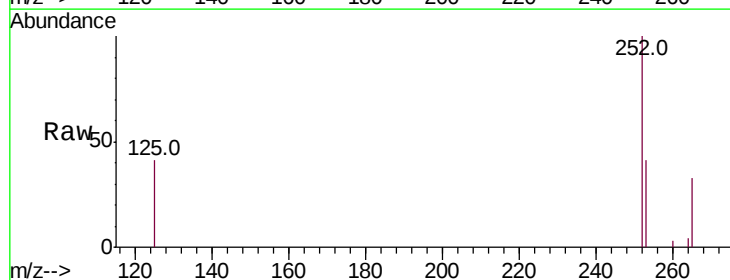
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	27.7	23.1	34.7

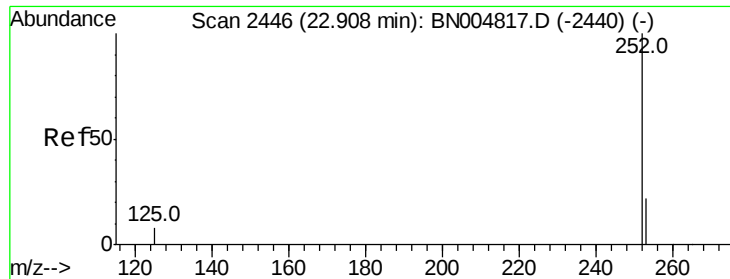


#35
Benzo(b)fluoranthene
Concen: 0.057 ng
RT: 22.87 min Scan# 2434
Delta R.T. 0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Tgt Ion:252 Resp: 4159

Ion	Ratio	Lower	Upper
252	100		
253	40.6	19.0	28.4#
125	41.3	7.4	11.2#

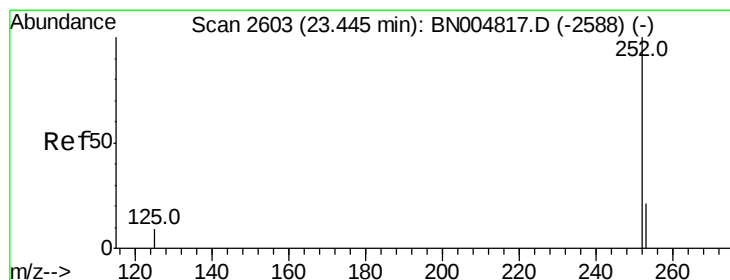
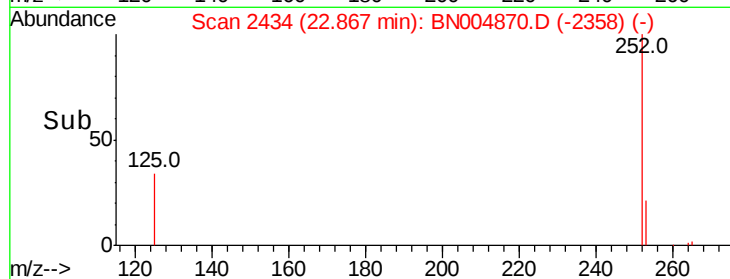
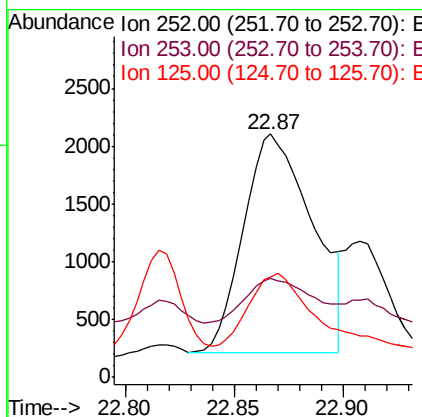
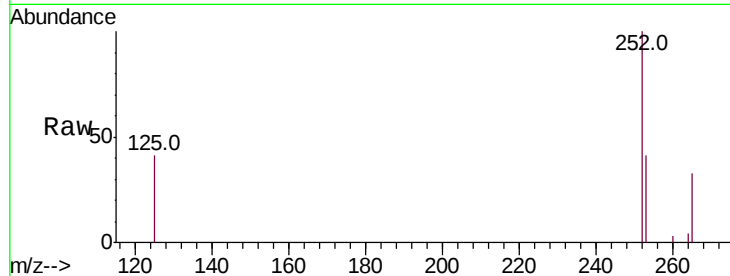




#36
Benzo(k)fluoranthene
Concen: 0.057 ng
RT: 22.87 min Scan# 2434
Delta R.T. -0.04 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

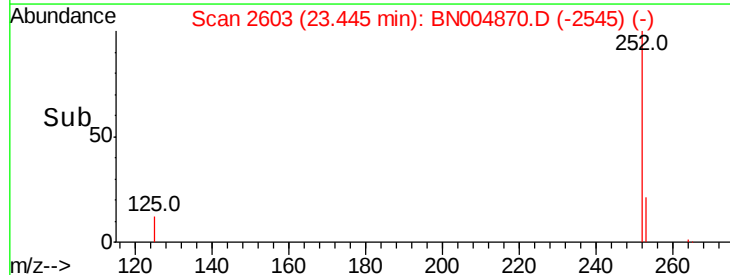
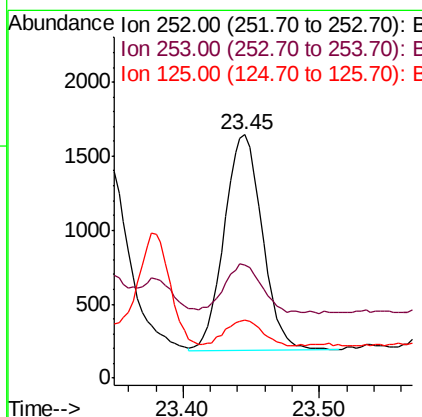
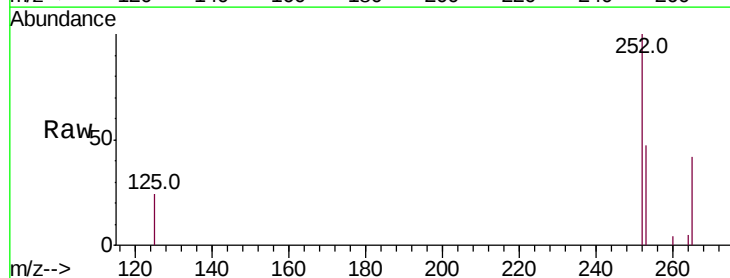
Instrument :
BNA_N
ClientSampleId :
PST-026-B022-031819

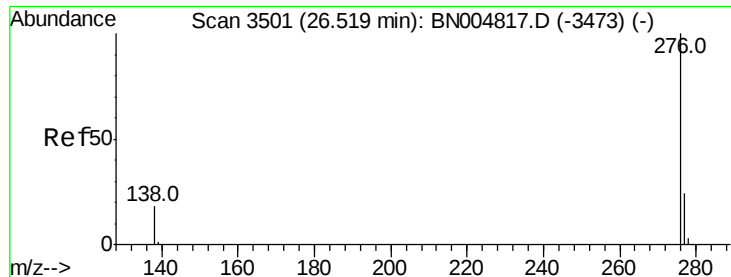
Tot Ion:252 Resp: 4159
Ion Ratio Lower Upper
252 100
253 40.6 19.3 28.9#
125 41.3 7.4 11.0#



#37
Benzo(a)pyrene
Concen: 0.042 ng
RT: 23.45 min Scan# 2603
Delta R.T. 0.00 min
Lab File: BN004870.D
Acq: 22 Mar 2019 03:02

Tgt Ion:252 Resp: 2826
Ion Ratio Lower Upper
252 100
253 46.5 19.7 29.5#
125 23.8 8.3 12.5#





#39

Benzo(a,h,i)perylene

Concen: 0.027 ng

RT: 26.52 min Scan# 3502

Delta R.T. 0.00 min

Lab File: BN004870.D

Acq: 22 Mar 2019 03:02

Instrument :

BNA_N

ClientSampleId :

PST-026-B022-031819

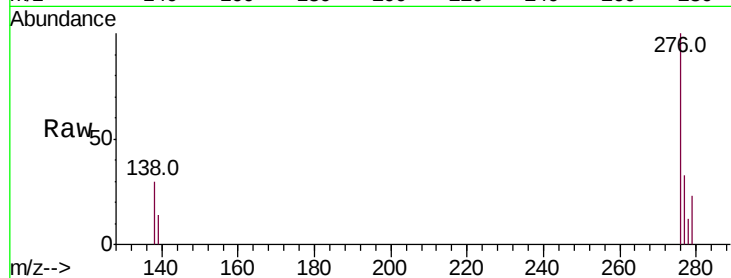
Tot Ion:276 Resp: 2180

Ion Ratio Lower Upper

276 100

277 32.5 19.7 29.5#

138 29.9 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

