

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032219\
 Data File : BN004905.D
 Acq On : 23 Mar 2019 03:16
 Operator : JU/SJ
 Sample : K2013-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-026-B123-031819

Quant Time: Mar 23 04:40:38 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	4117	0.40	ng	0.00
7) Naphthalene-d8	10.48	136	17886	0.40	ng	-0.01
13) Acenaphthene-d10	14.33	164	10305	0.40	ng	-0.01
19) Phenanthrene-d10	17.08	188	24783	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	31078	0.40	ng	-0.01
34) Perylene-d12	23.53	264	30889	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.28	112	3688	0.33	ng	0.00
5) Phenol-d6	6.86	99	5155	0.37	ng	-0.02
8) Nitrobenzene-d5	8.86	82	3446	0.29	ng	-0.01
11) 2-Methylnaphthalene-d10	12.07	152	7592	0.24	ng	-0.01
14) 2,4,6-Tribromophenol	15.84	330	2670	0.38	ng	-0.01
15) 2-Fluorobiphenyl	12.95	172	12259	0.29	ng	-0.01
25) Fluoranthene-d10	19.12	212	18912	0.23	ng	-0.02
29) Terphenyl-d14	19.72	244	18524	0.29	ng	-0.01

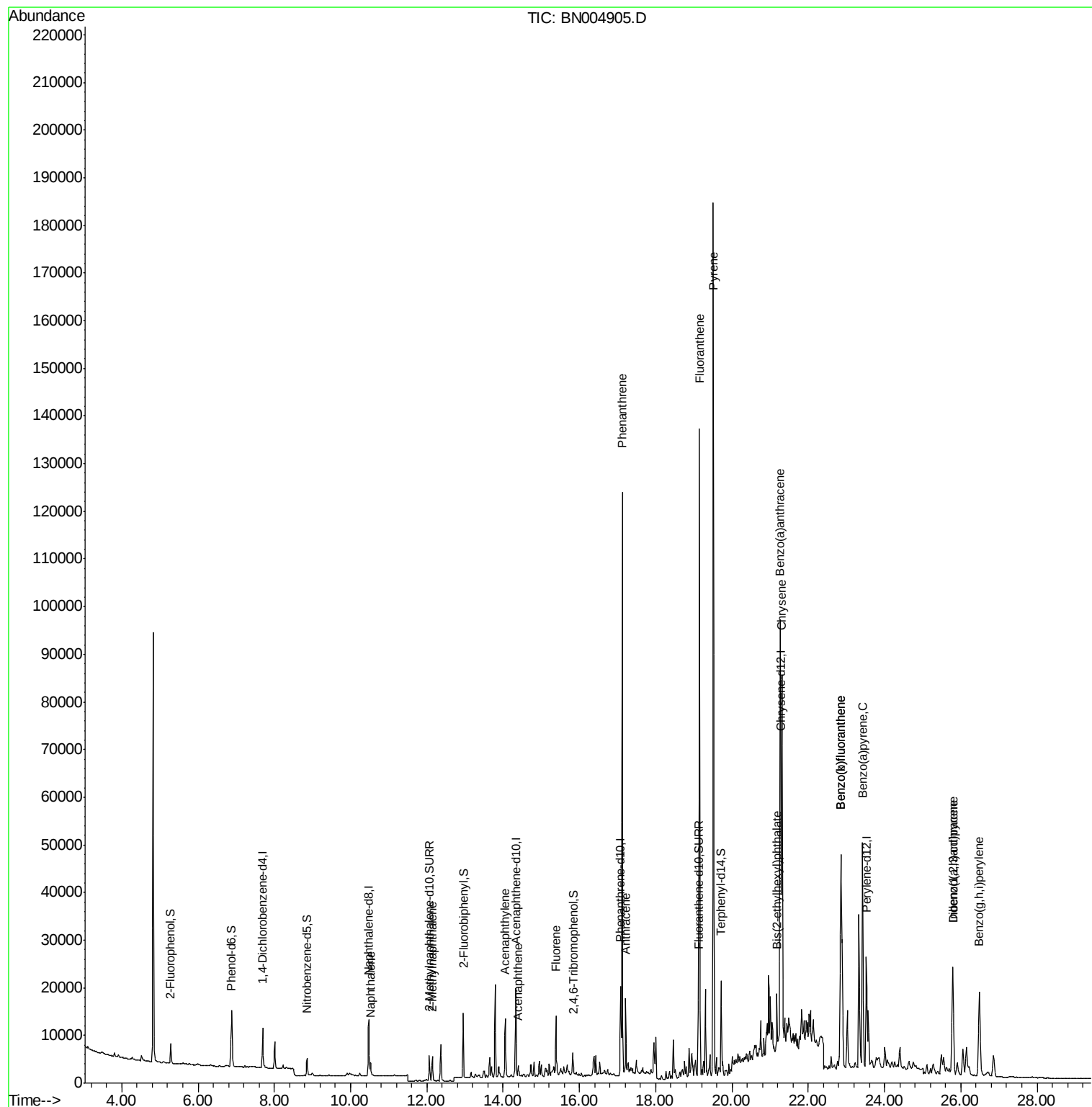
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.53	128	3654	0.073	ng	96
12) 2-Methylnaphthalene	12.14	142	3667	0.098	ng	98
16) Acenaphthylene	14.05	152	13733	0.259	ng	98
17) Acenaphthene	14.39	154	1384	0.040	ng	90
18) Fluorene	15.38	166	8314	0.171	ng	# 93
23) Phenanthrene	17.12	178	116224	1.452	ng	99
24) Anthracene	17.22	178	16205	0.227	ng	99
26) Fluoranthene	19.15	202	120178	1.169	ng	98
28) Pyrene	19.51	202	153969	1.625	ng	97
30) Benzo(a)anthracene	21.26	228	84322	0.827	ng	95
31) Chrysene	21.31	228	71424	0.665	ng	96
32) Bis(2-ethylhexyl)phthalate	21.17	149	10616	0.261	ng	100
33) Indeno(1,2,3-cd)pyrene	25.79	276	35115	0.226	ng	99
35) Benzo(b)fluoranthene	22.85	252	78851	0.706	ng	# 97
36) Benzo(k)fluoranthene	22.85	252	78851	0.717	ng	# 97
37) Benzo(a)pyrene	23.43	252	63526	0.620	ng	99
38) Dibenzo(a,h)anthracene	25.79	278	10425	0.088	ng	# 74
39) Benzo(a,h,i)perylene	26.49	276	37264	0.308	ng	97

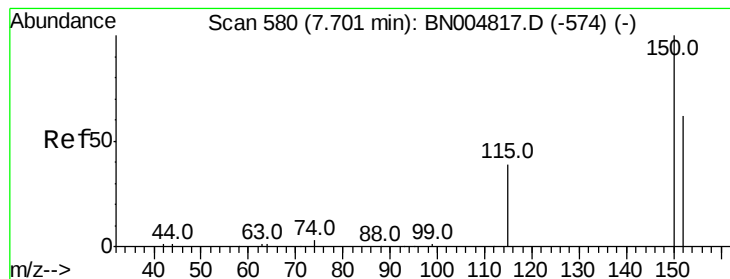
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

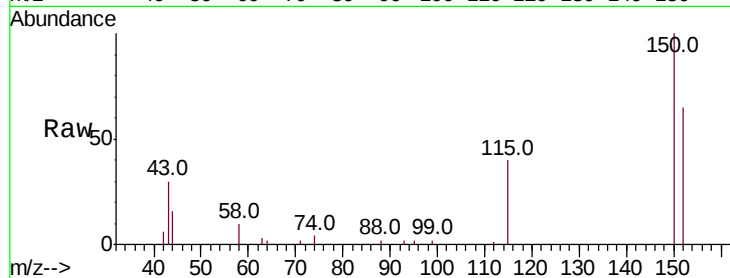
Tot Ion:152 Resp: 4117

Ion Ratio Lower Upper

152 100

150 153.3 126.2 189.4

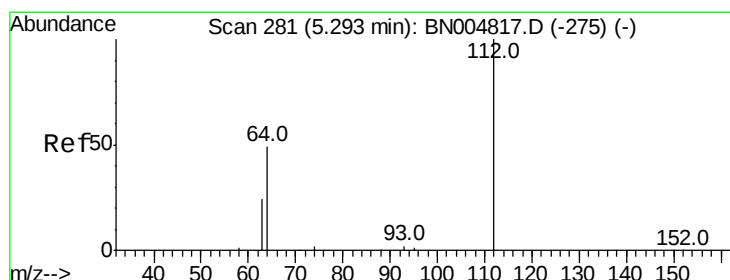
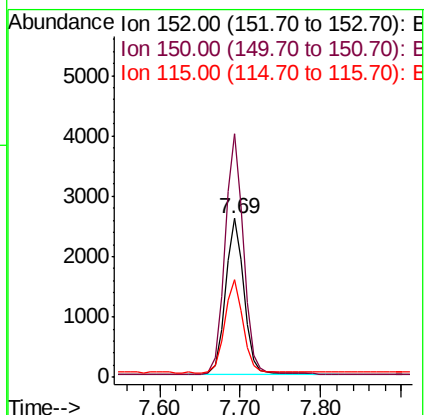
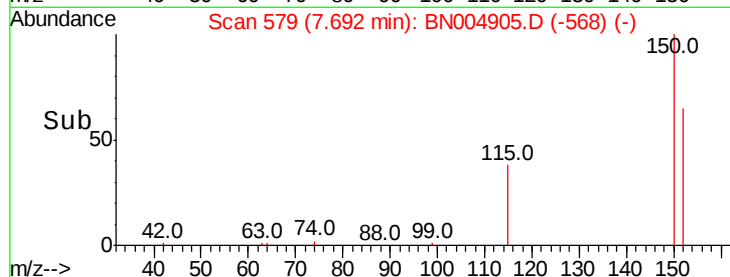
115 61.4 52.6 79.0



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: 0.330 ng

RT: 5.28 min Scan# 280

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

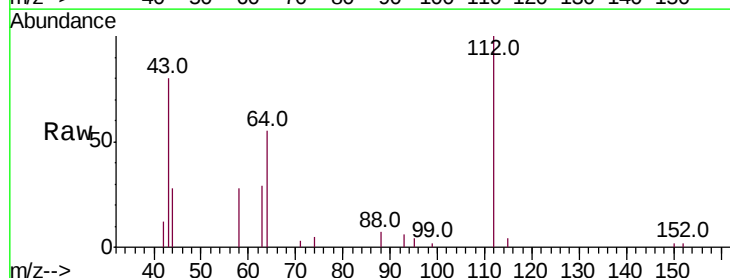
Tgt Ion:112 Resp: 3688

Ion Ratio Lower Upper

112 100

64 52.1 40.0 60.0

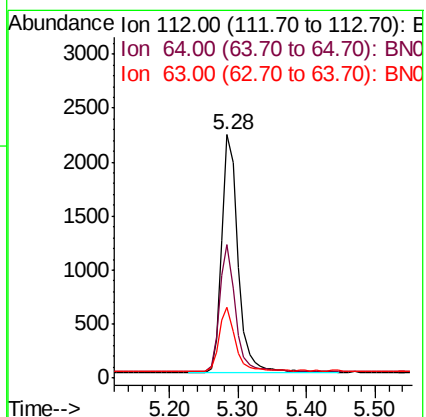
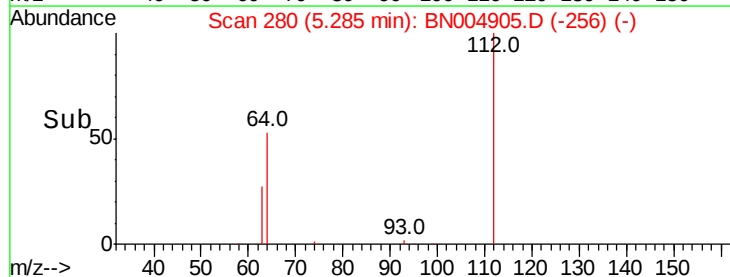
63 25.9 20.2 30.2



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: 0.370 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

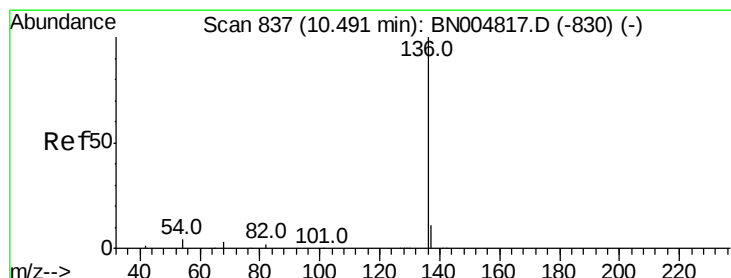
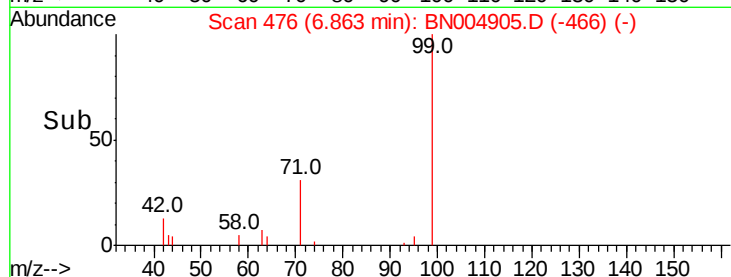
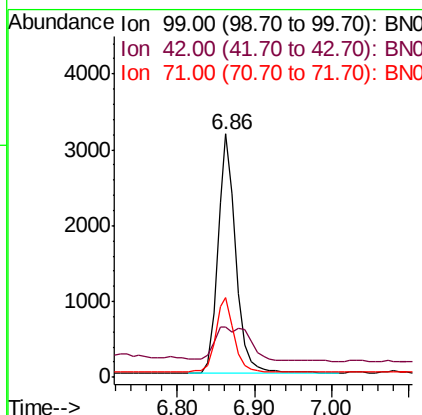
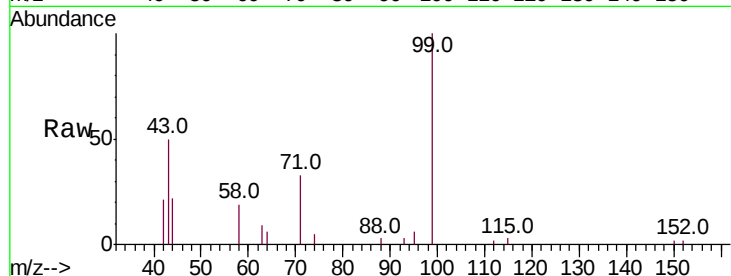
BNA_N

ClientSampleId :

PST-026-B123-031819

Tot Ion: 99 Resp: 5155

Ion	Ratio	Lower	Upper
99	100		
42	26.5	12.7	19.1#
71	32.0	26.6	40.0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.48 min Scan# 836

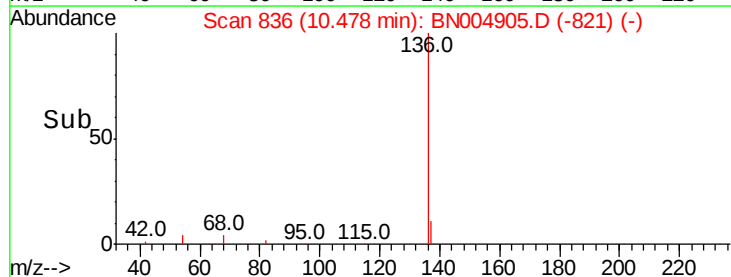
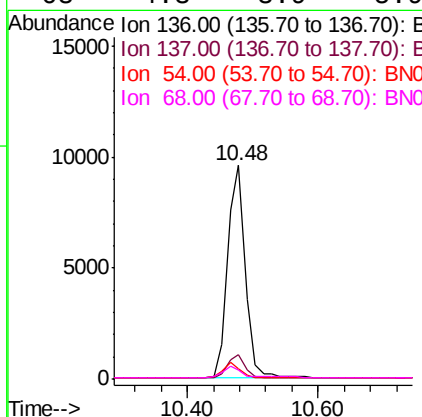
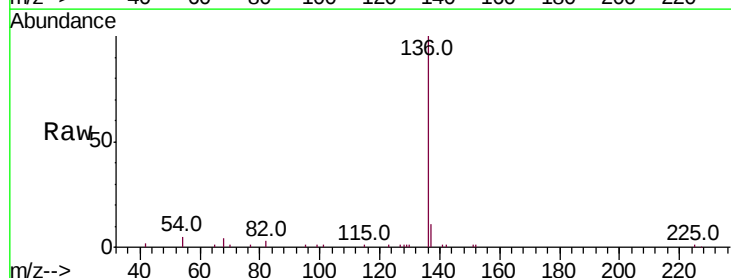
Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Tgt Ion: 136 Resp: 17886

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.6	14.4
54	5.0	4.2	6.2
68	4.3	3.9	5.9





#8

Nitrobenzene-d5

Concen: 0.291 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

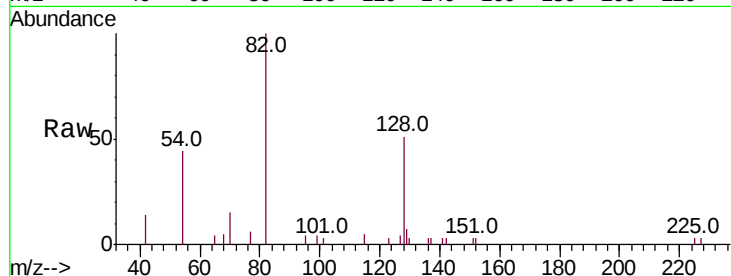
Tot Ion: 82 Resp: 3446

Ion Ratio Lower Upper

82 100

128 51.5 43.0 64.6

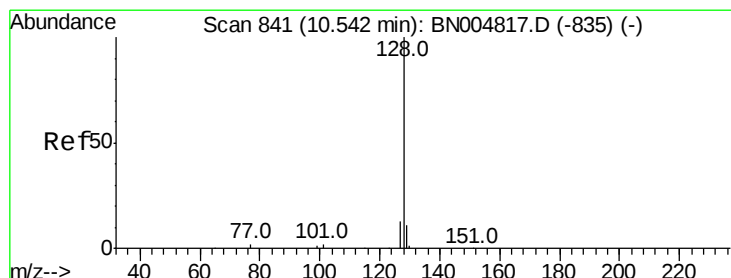
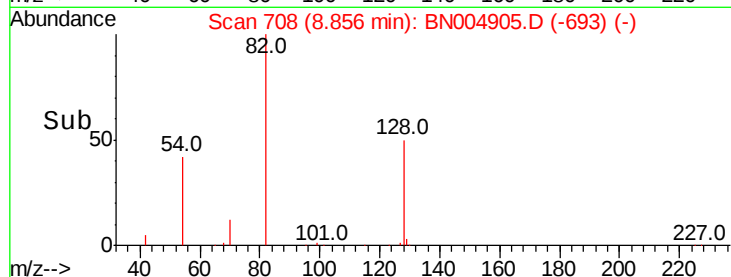
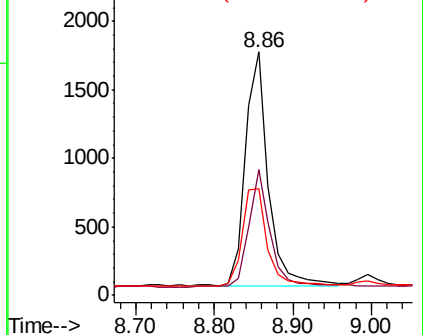
54 44.0 35.3 52.9



Abundance Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BN0



#9

Naphthalene

Concen: 0.073 ng

RT: 10.53 min Scan# 840

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

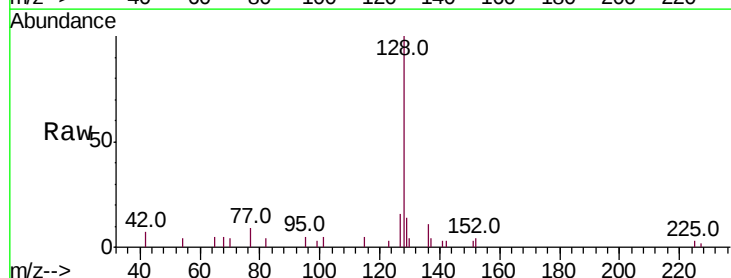
Tgt Ion: 128 Resp: 3654

Ion Ratio Lower Upper

128 100

129 13.9 9.9 14.9

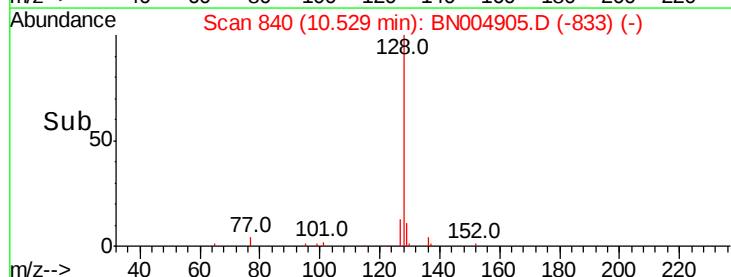
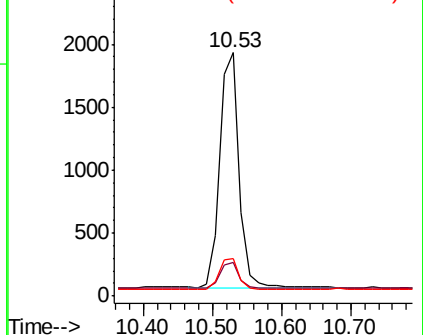
127 15.7 11.3 16.9

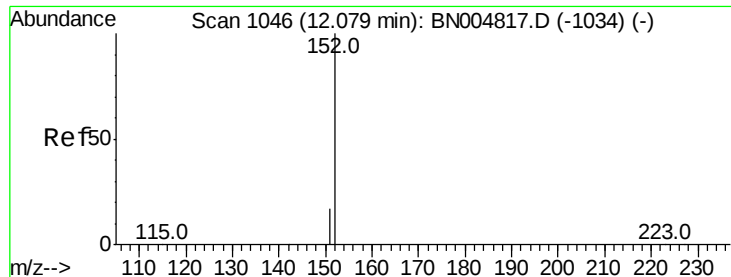


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

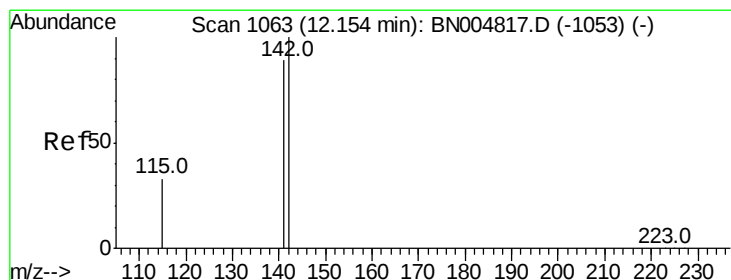
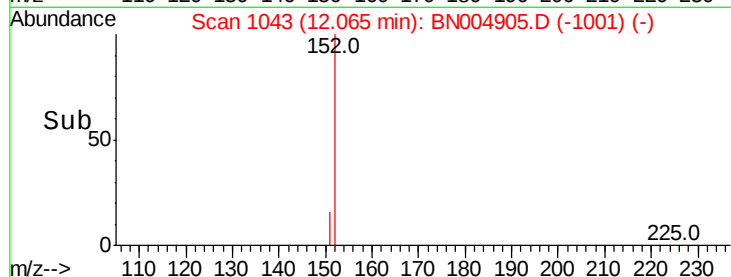
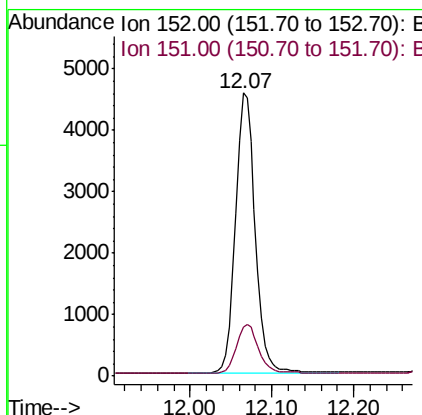
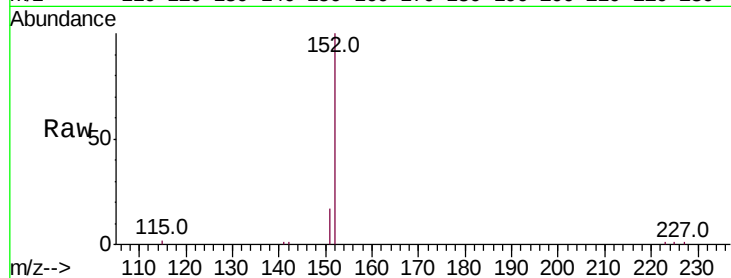




#11
2-Methylnaphthalene-d10
Concen: 0.243 ng
RT: 12.07 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

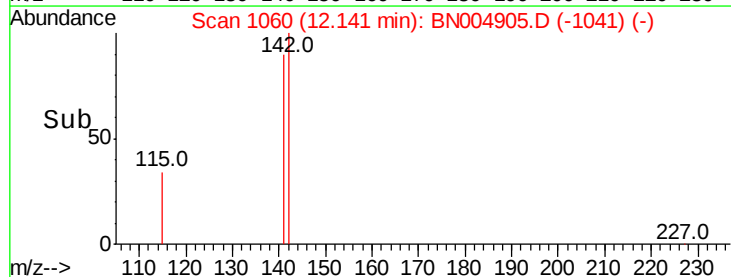
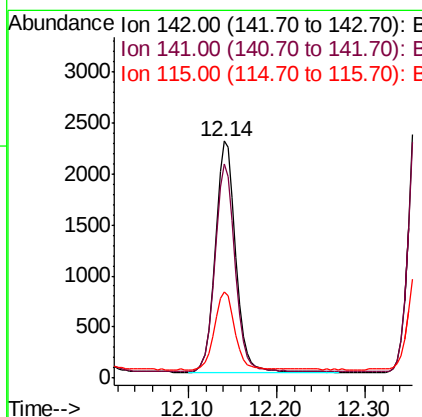
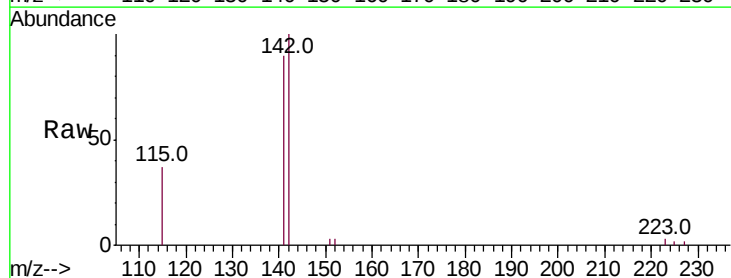
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BNA_N
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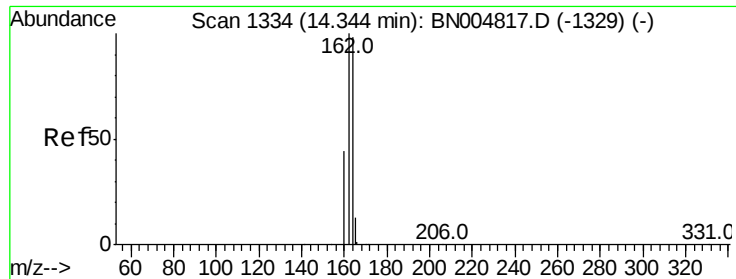
Tot Ion:152 Resp: 7592
Ion Ratio Lower Upper
152 100
151 19.4 15.5 23.3



#12
2-Methylnaphthalene
Concen: 0.098 ng
RT: 12.14 min Scan# 1060
Delta R.T. -0.01 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

Tgt Ion:142 Resp: 3667
Ion Ratio Lower Upper
142 100
141 90.3 71.4 107.2
115 36.6 27.5 41.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

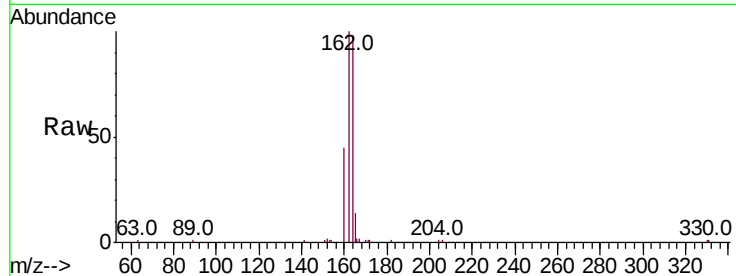
Tot Ion:164 Resp: 10305

Ion Ratio Lower Upper

164 100

162 102.4 81.9 122.9

160 45.7 36.6 54.8

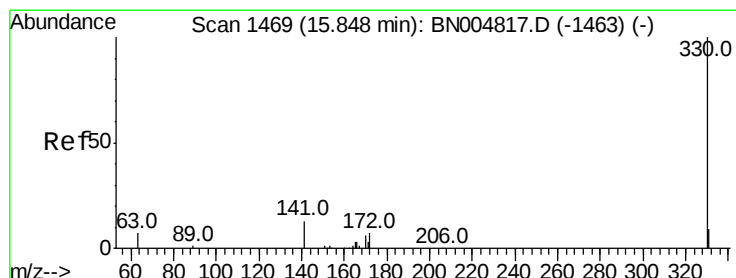
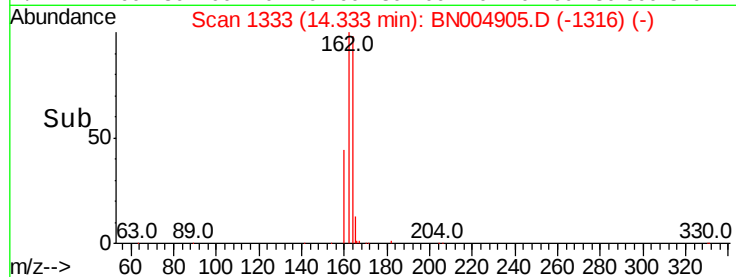
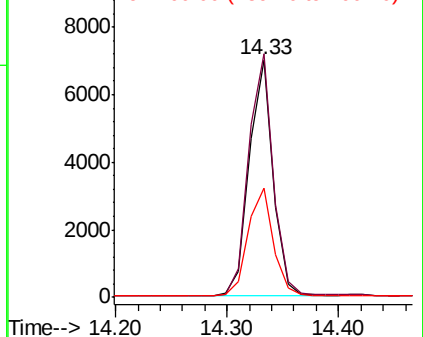


Abundance

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: 0.375 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

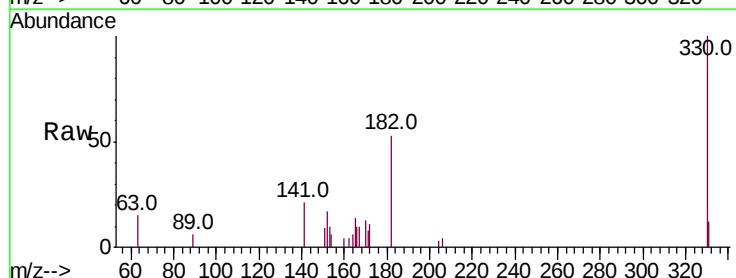
Tgt Ion:330 Resp: 2670

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.4 20.9 31.3#

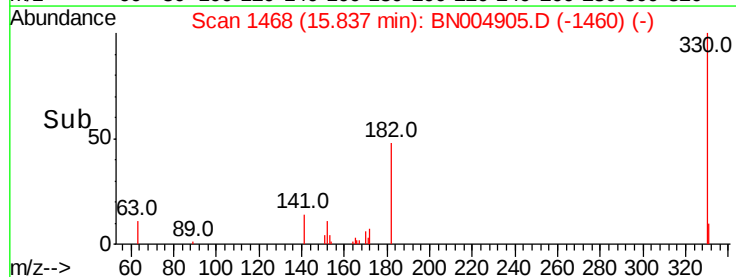
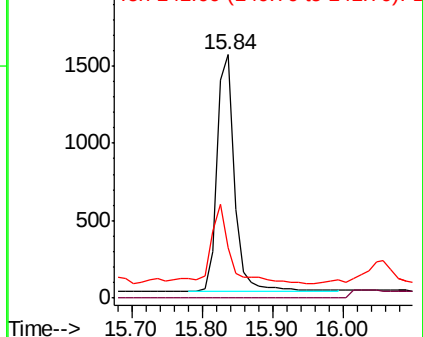


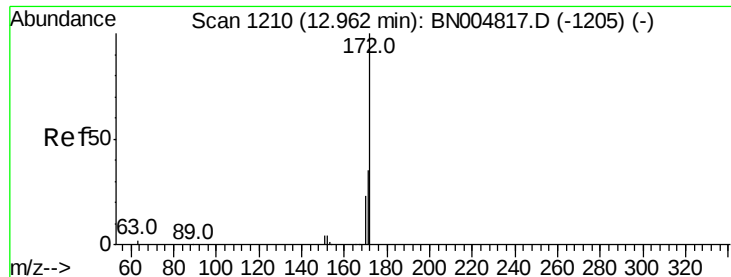
Abundance

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

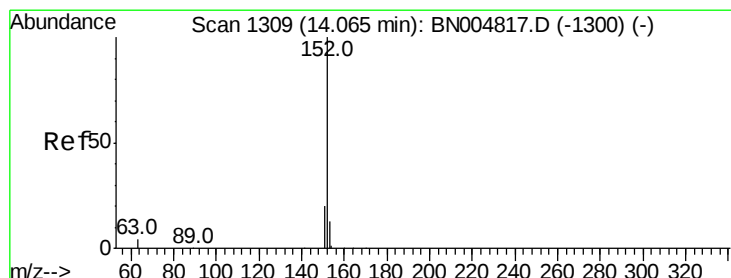
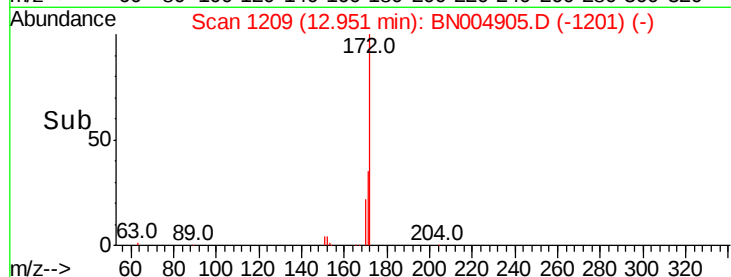
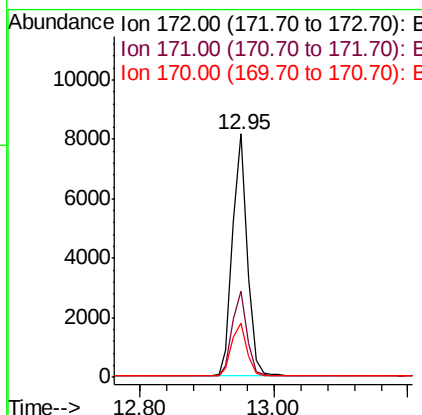
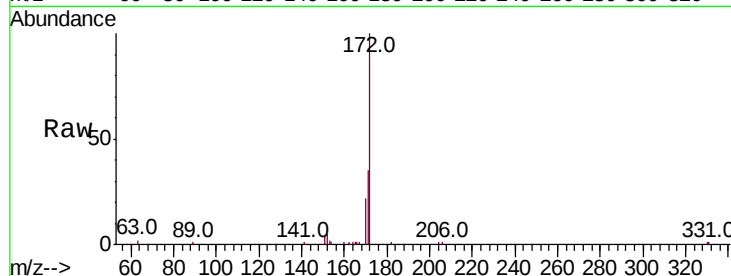




#15
2-Fluorobiphenyl
Concen: 0.288 ng
RT: 12.95 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

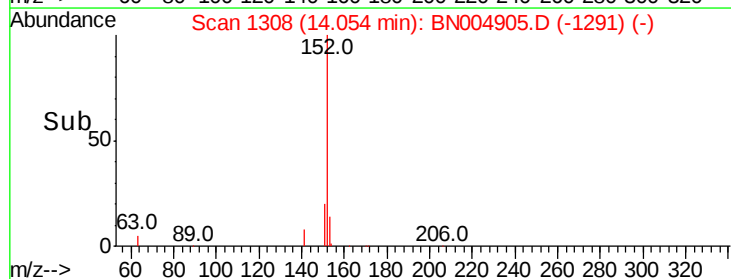
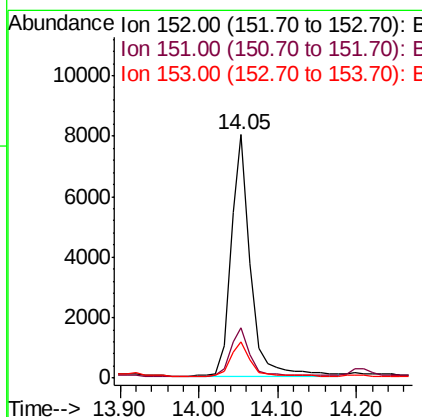
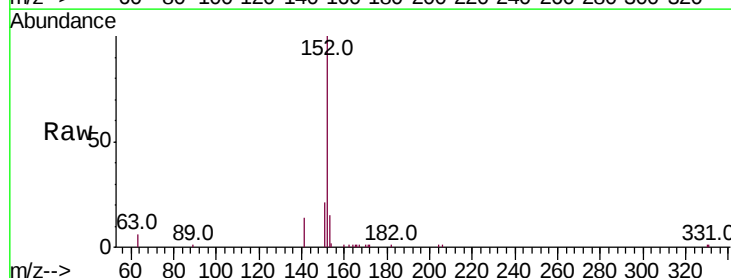
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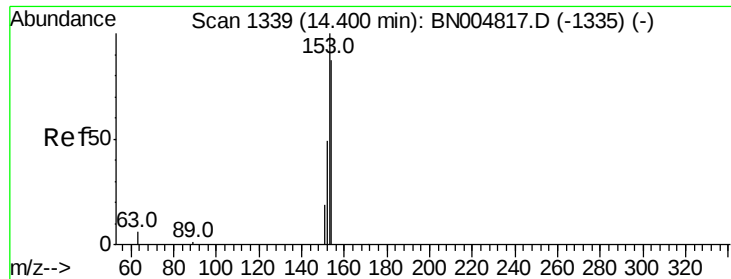
Tot Ion:172 Resp: 12259
Ion Ratio Lower Upper
172 100
171 35.2 28.7 43.1
170 22.4 18.7 28.1



#16
Acenaphthylene
Concen: 0.259 ng
RT: 14.05 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

Tgt Ion:152 Resp: 13733
Ion Ratio Lower Upper
152 100
151 20.4 16.1 24.1
153 14.6 10.5 15.7





#17

Acenaphthene

Concen: 0.040 ng

RT: 14.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

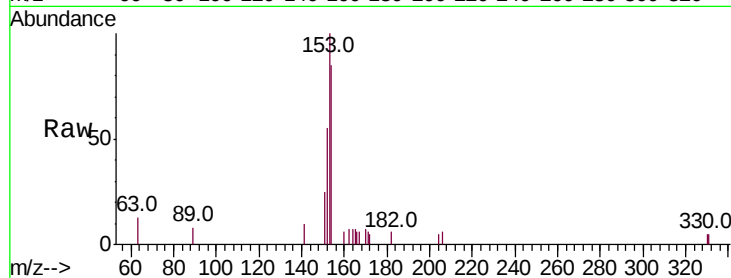
Tot Ion:154 Resp: 1384

Ion Ratio Lower Upper

154 100

153 122.5 91.4 137.2

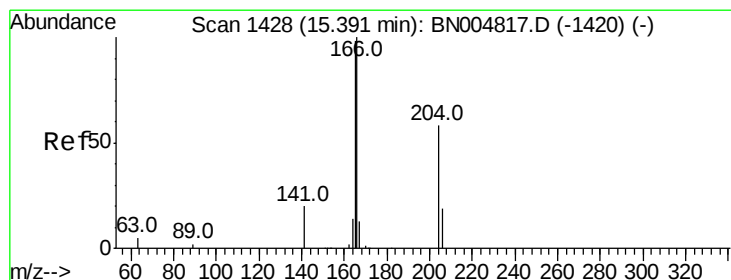
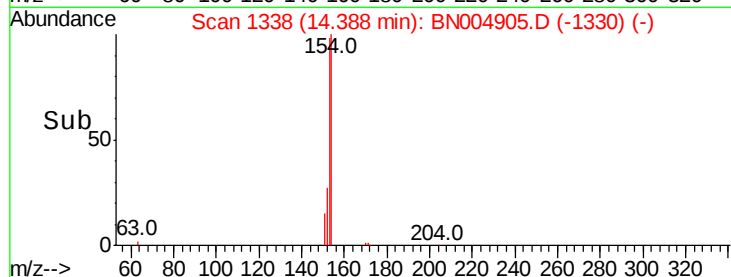
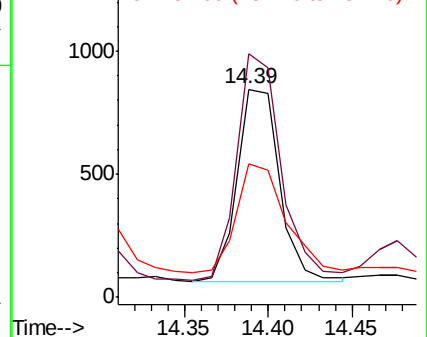
152 65.7 44.2 66.2



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



#18

Fluorene

Concen: 0.171 ng

RT: 15.38 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

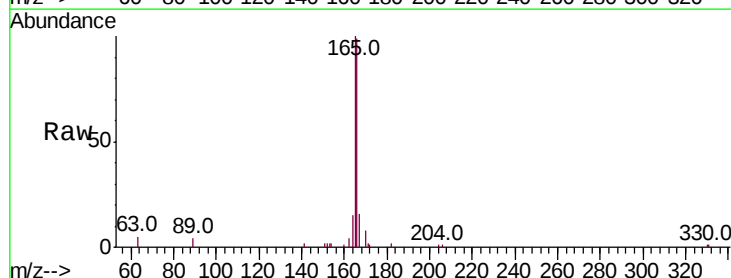
Tgt Ion:166 Resp: 8314

Ion Ratio Lower Upper

166 100

165 104.5 78.2 117.4

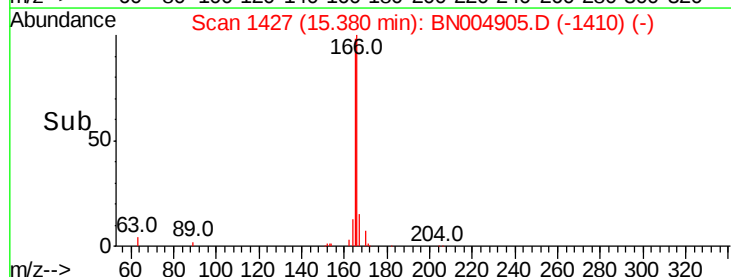
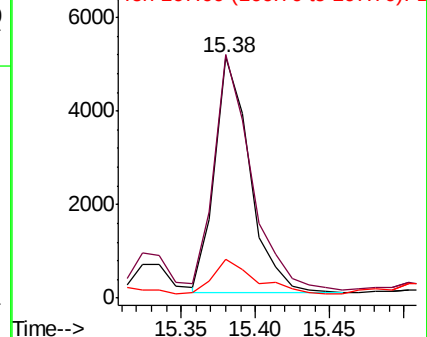
167 17.2 11.0 16.4#

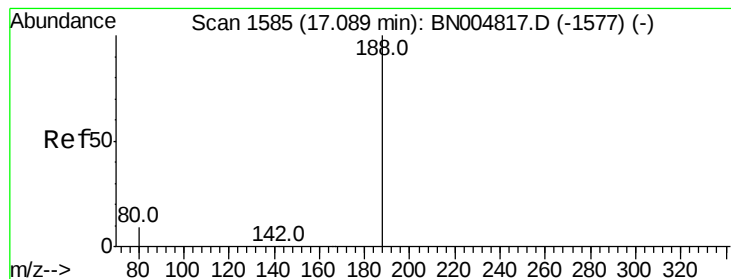


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

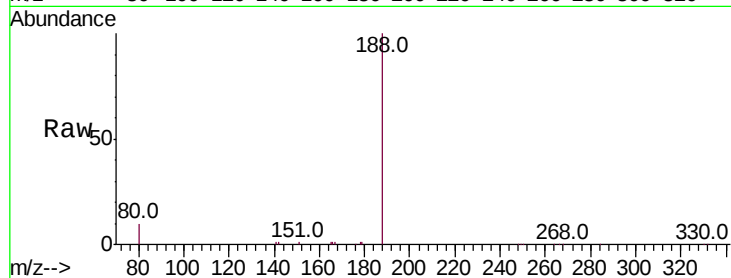
Tot Ion:188 Resp: 24783

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

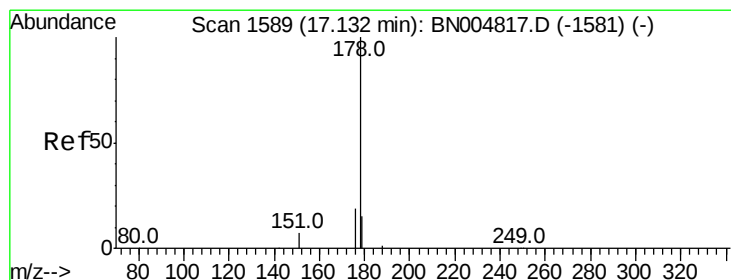
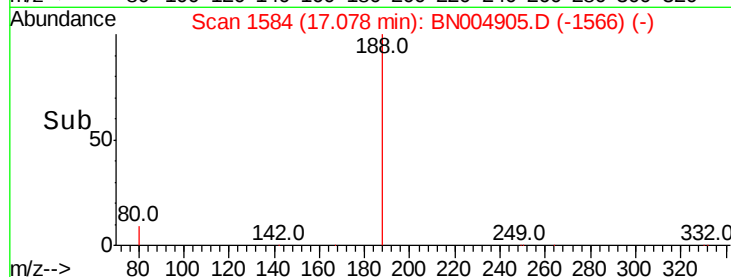
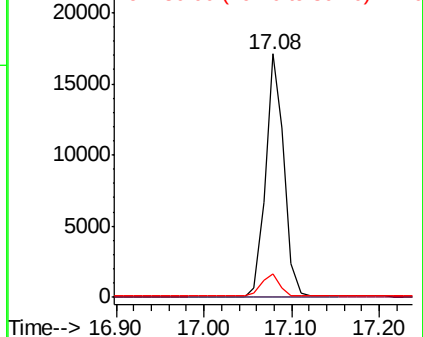
80 9.6 7.4 11.2



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: 1.452 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

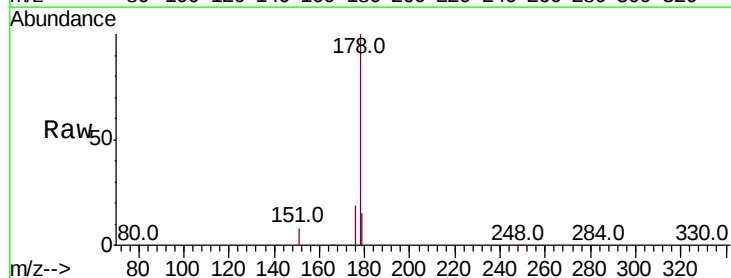
Tgt Ion:178 Resp: 116224

Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

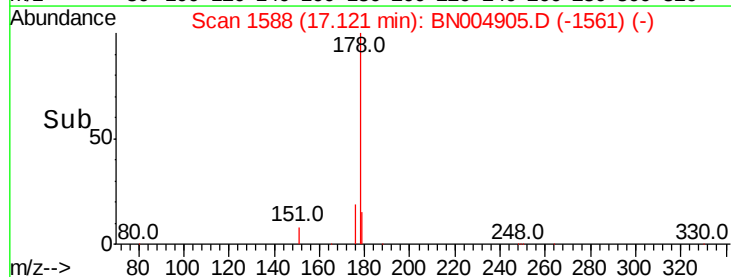
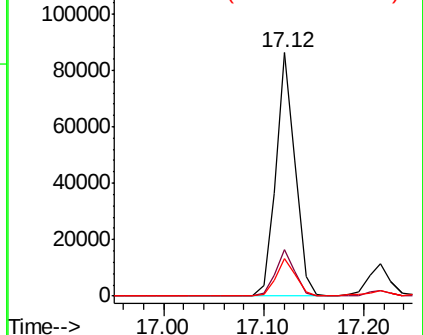
179 15.5 12.1 18.1

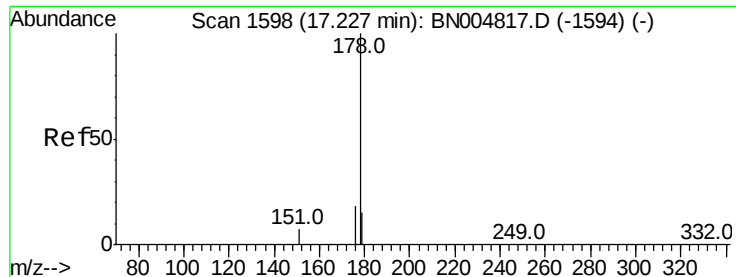


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.227 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

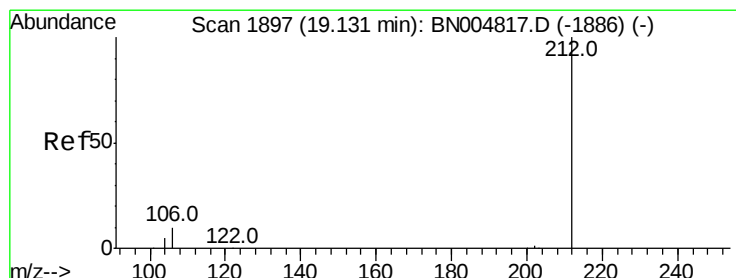
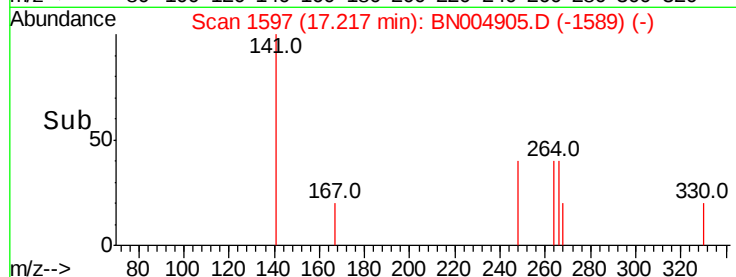
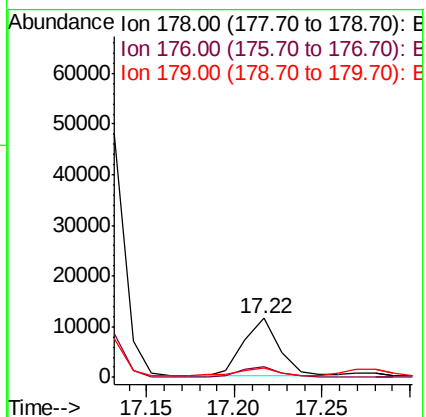
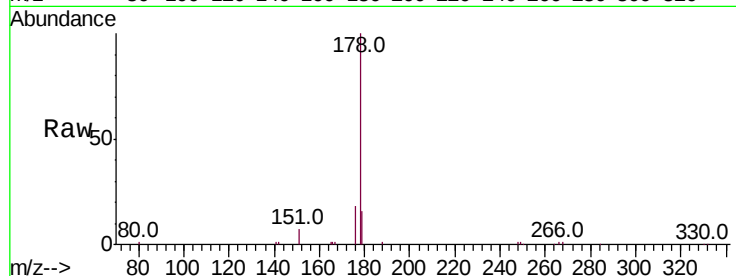
Tot Ion:178 Resp: 16205

Ion Ratio Lower Upper

178 100

176 18.1 14.5 21.7

179 16.2 12.2 18.4



#25

Fluoranthene-d10

Concen: 0.228 ng

RT: 19.12 min Scan# 1894

Delta R.T. -0.02 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

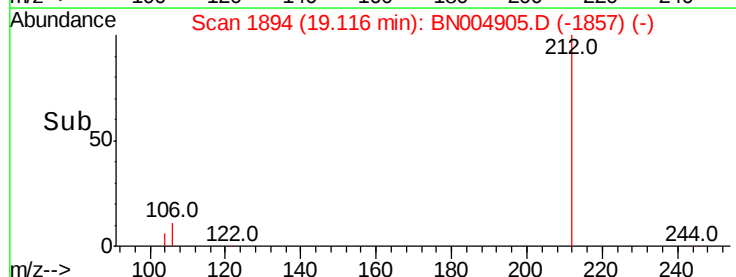
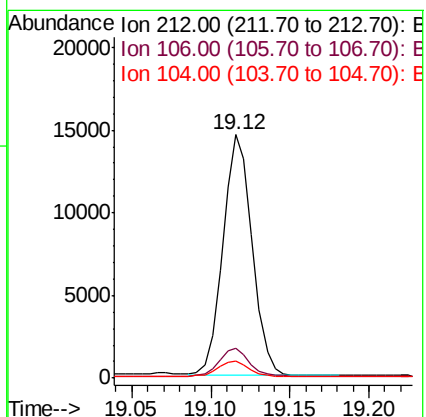
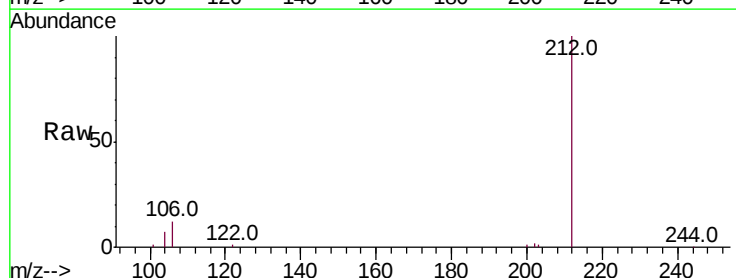
Tgt Ion:212 Resp: 18912

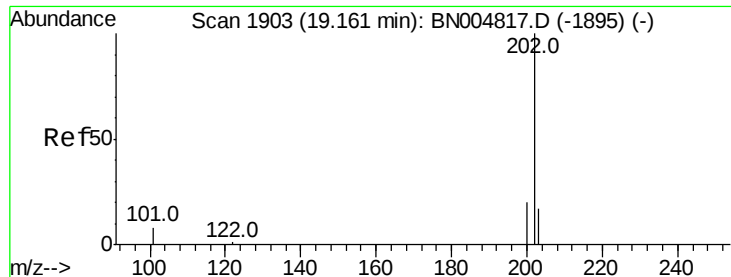
Ion Ratio Lower Upper

212 100

106 11.8 8.6 13.0

104 6.6 4.7 7.1

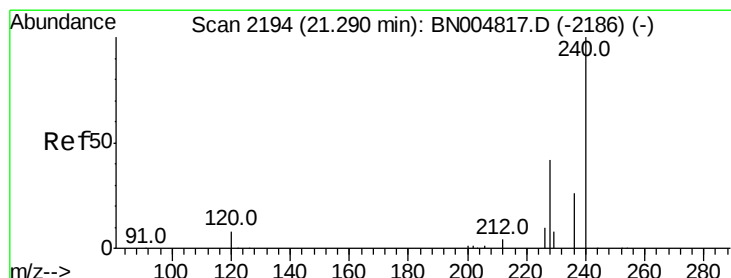
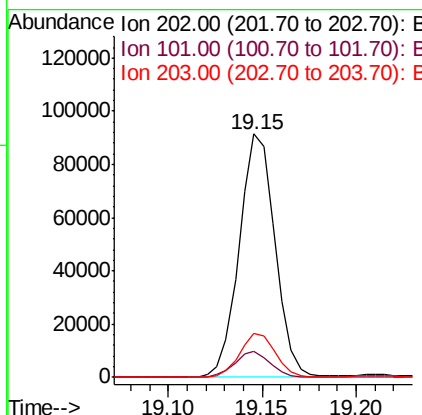
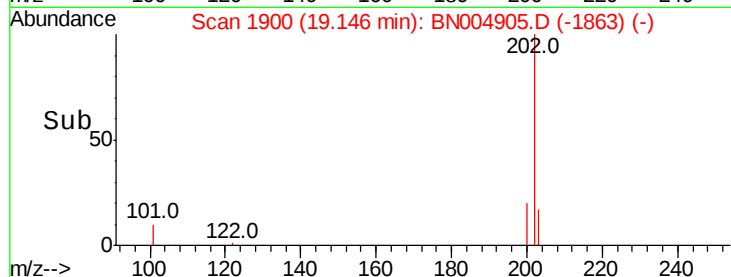
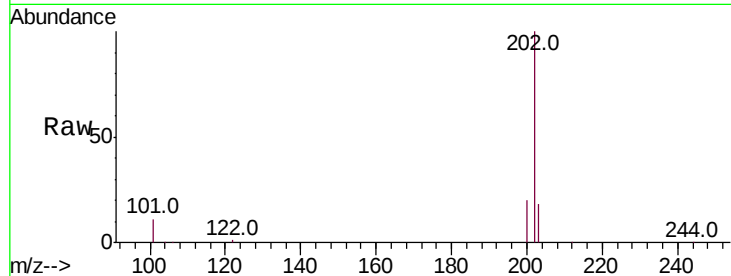




#26
 Fluoranthene
 Concen: 1.169 ng
 RT: 19.15 min Scan# 1900
 Delta R.T. -0.02 min
 Lab File: BN004905.D
 Acq: 23 Mar 2019 03:16

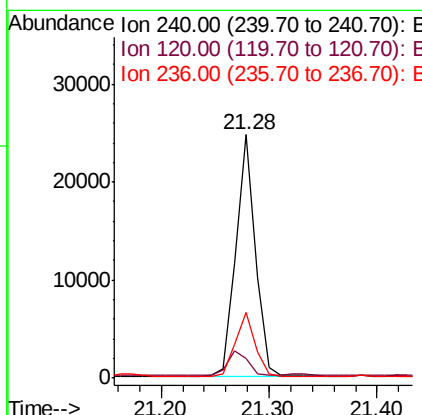
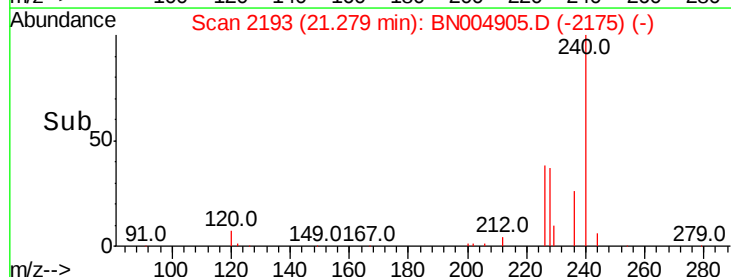
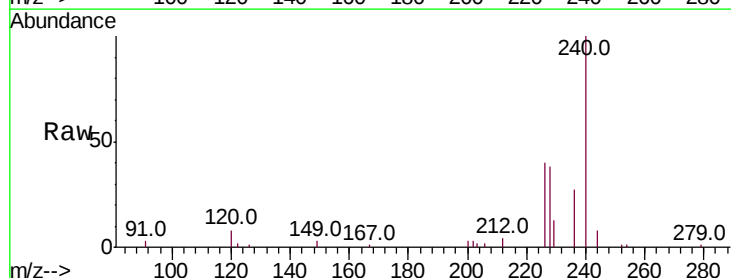
Instrument :
 BNA_N
 ClientSampleId :
 PST-026-B123-031819

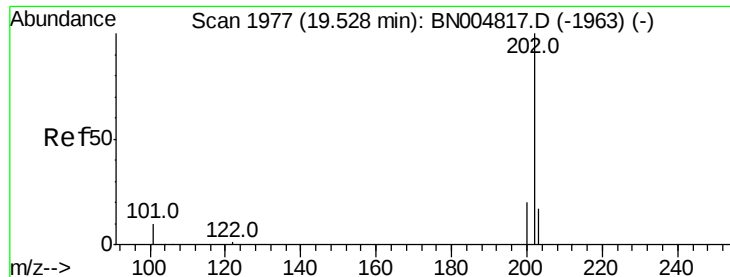
Tot Ion:202 Resp: 120178
 Ion Ratio Lower Upper
 202 100
 101 10.2 7.5 11.3
 203 17.8 13.8 20.6



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.28 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: BN004905.D
 Acq: 23 Mar 2019 03:16

Tgt Ion:240 Resp: 31078
 Ion Ratio Lower Upper
 240 100
 120 8.2 7.2 10.8
 236 26.8 20.9 31.3

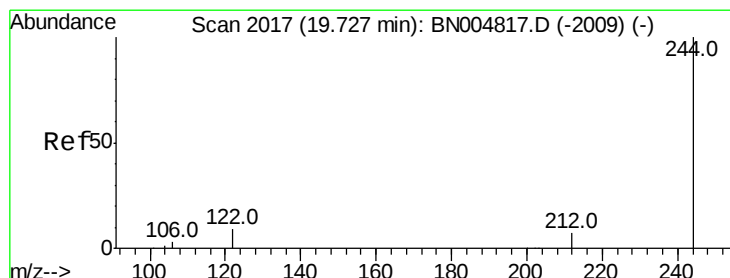
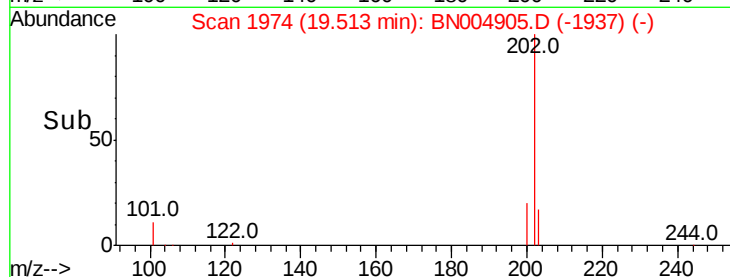
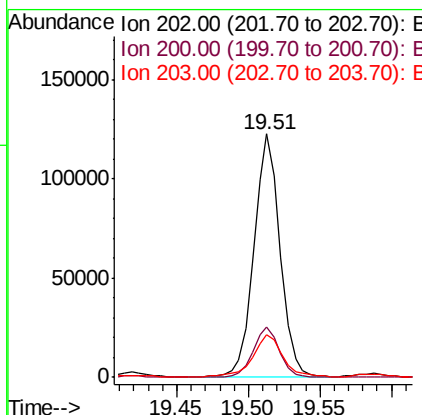
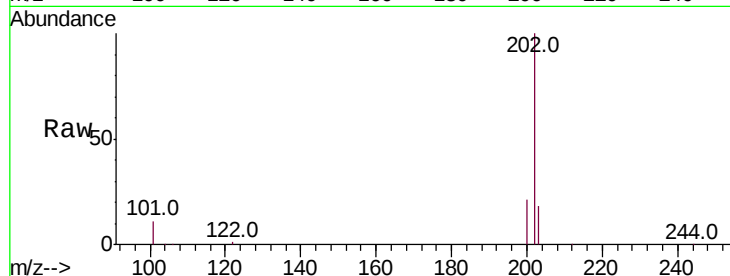




#28
Pvrene
Concen: 1.625 ng
RT: 19.51 min Scan# 1974
Delta R.T. -0.02 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

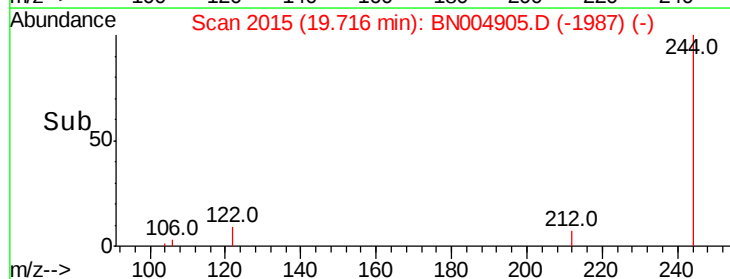
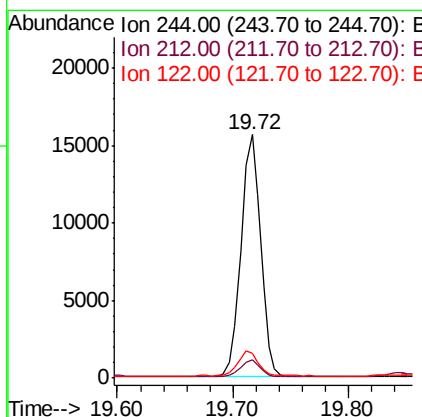
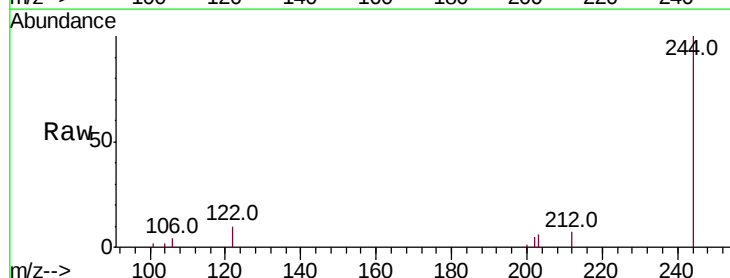
Instrument :
BNA_N
ClientSampleId :
PST-026-B123-031819

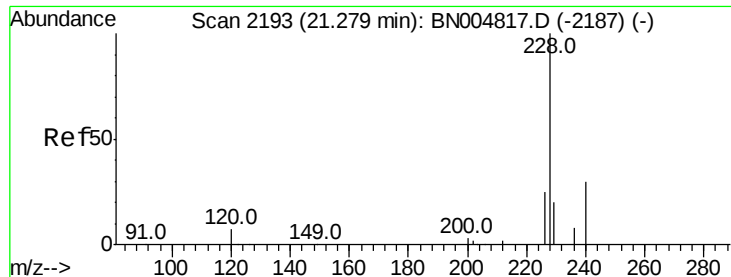
Tot Ion:202 Resp: 153969
Ion Ratio Lower Upper
202 100
200 20.5 16.3 24.5
203 20.0 14.0 21.0



#29
Terphenyl-d14
Concen: 0.291 ng
RT: 19.72 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

Tgt Ion:244 Resp: 18524
Ion Ratio Lower Upper
244 100
212 7.4 5.8 8.6
122 10.3 7.9 11.9

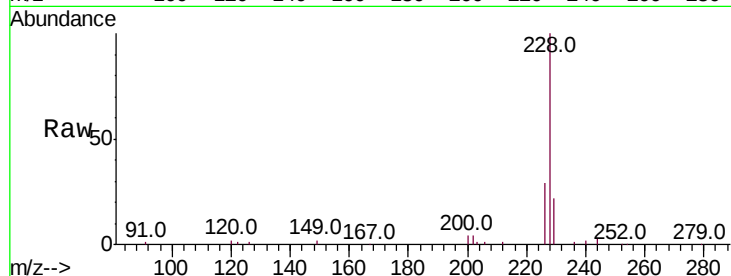




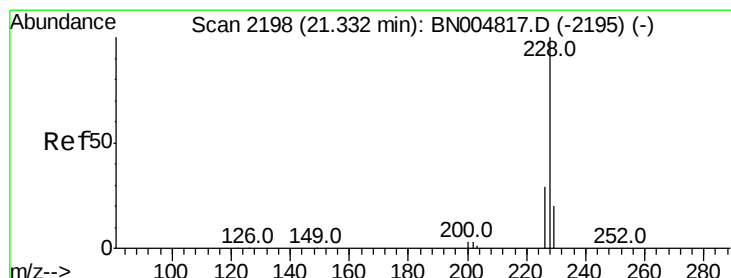
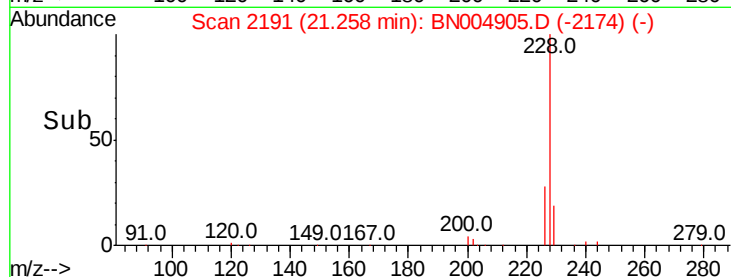
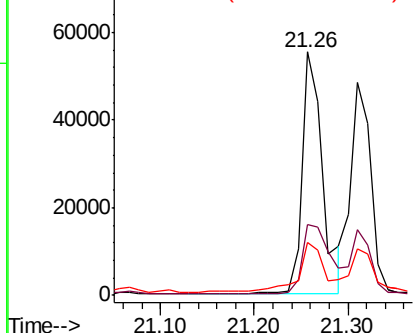
#30
Benzo(a)anthracene
Concen: 0.827 ng
RT: 21.26 min Scan# 2191
Delta R.T. -0.02 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

Instrument :
BNA_N
ClientSampleId :
PST-026-B123-031819

Tot Ion:228 Resp: 84322
Ion Ratio Lower Upper
228 100
226 29.1 20.6 31.0
229 21.6 16.2 24.4

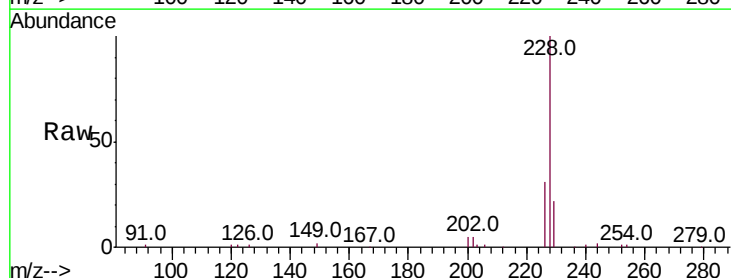


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

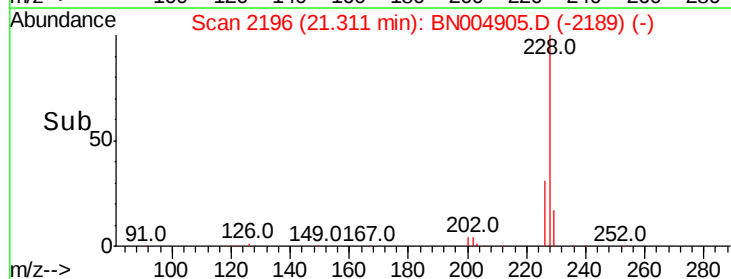
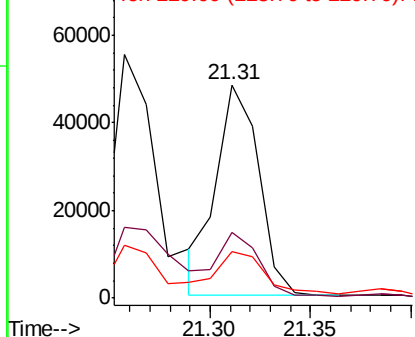


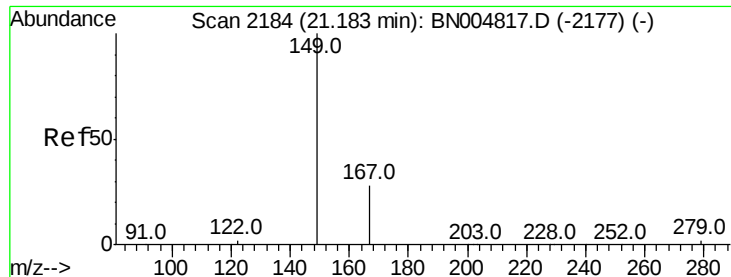
#31
Chrysene
Concen: 0.665 ng
RT: 21.31 min Scan# 2196
Delta R.T. -0.02 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

Tgt Ion:228 Resp: 71424
Ion Ratio Lower Upper
228 100
226 31.1 23.0 34.6
229 21.8 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: 0.261 ng

RT: 21.17 min Scan# 2183

Delta R.T. -0.01 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

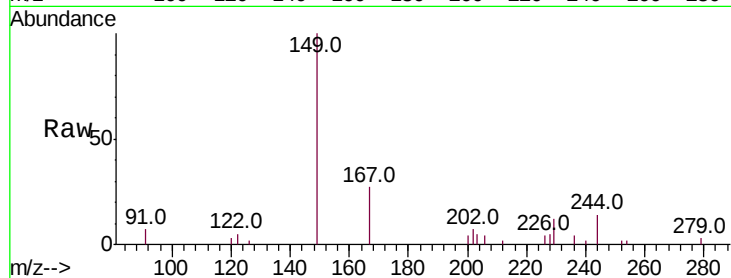
Tot Ion:149 Resp: 10616

Ion Ratio Lower Upper

149 100

167 28.7 23.0 34.4

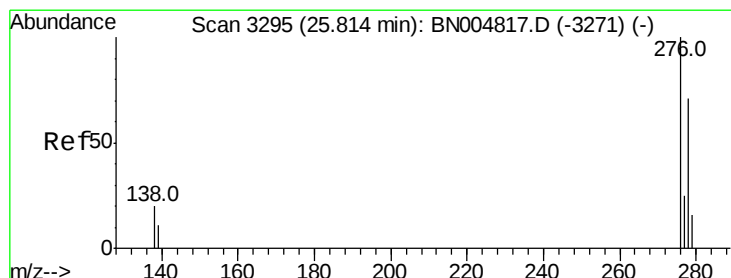
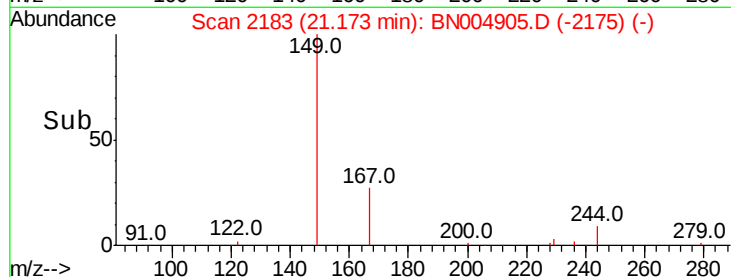
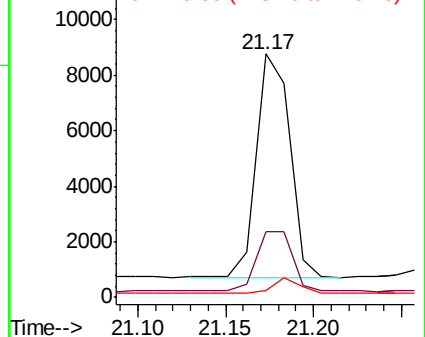
279 5.6 4.6 6.8



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: 0.226 ng

RT: 25.79 min Scan# 3288

Delta R.T. -0.02 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

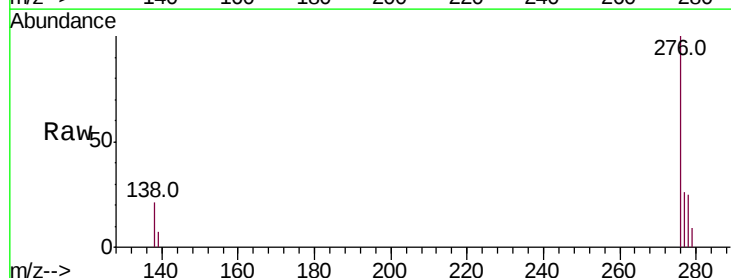
Tgt Ion:276 Resp: 35115

Ion Ratio Lower Upper

276 100

138 19.9 16.6 24.8

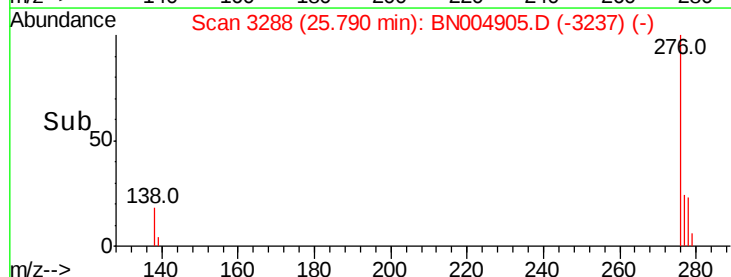
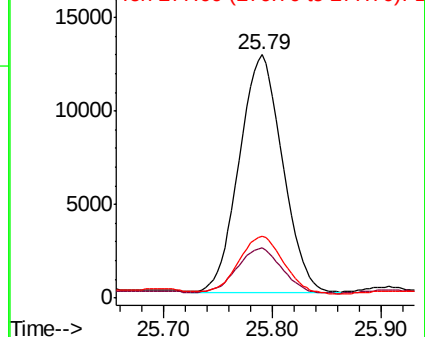
277 25.1 20.3 30.5

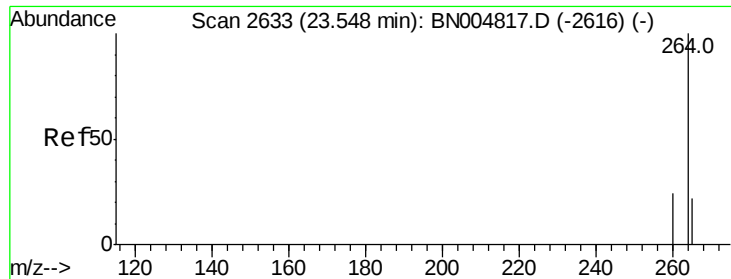


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

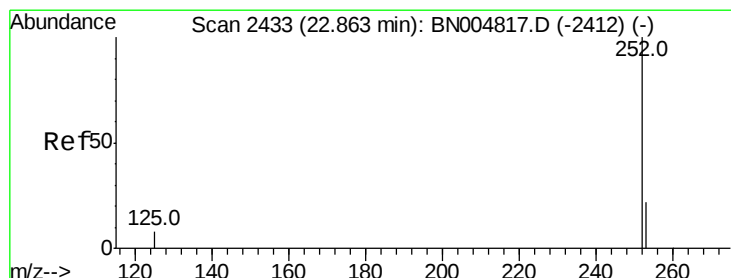
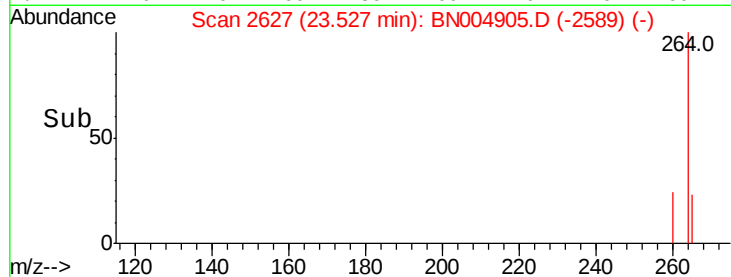
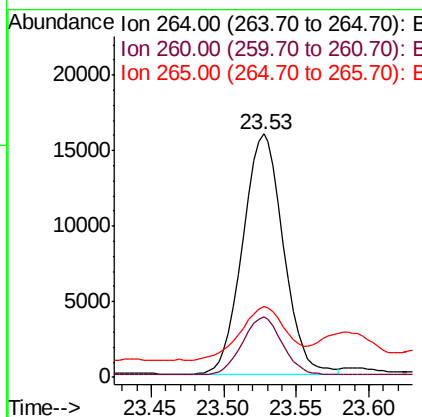
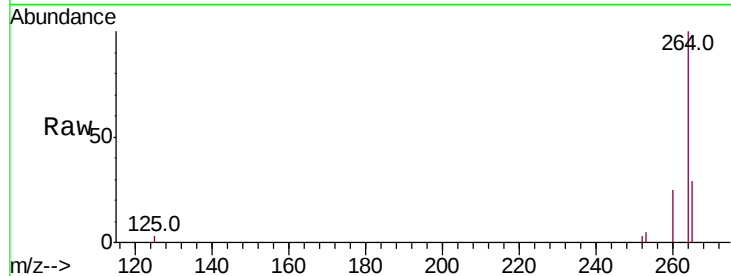




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.53 min Scan# 2627
 Delta R.T. -0.02 min
 Lab File: BN004905.D
 Acq: 23 Mar 2019 03:16

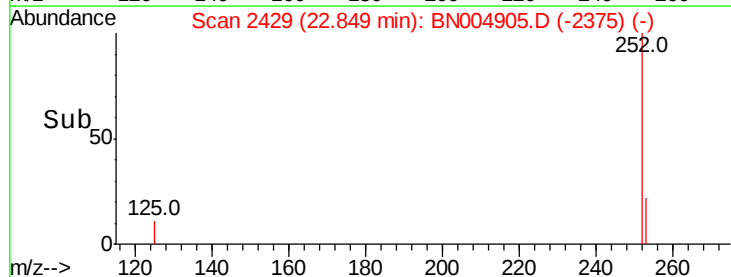
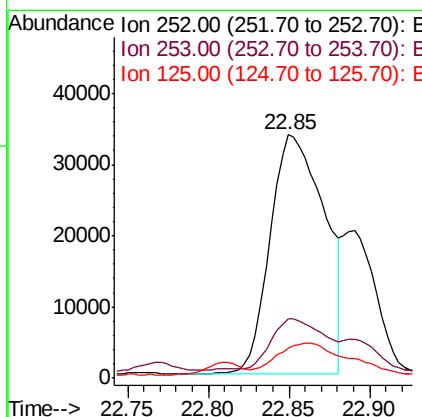
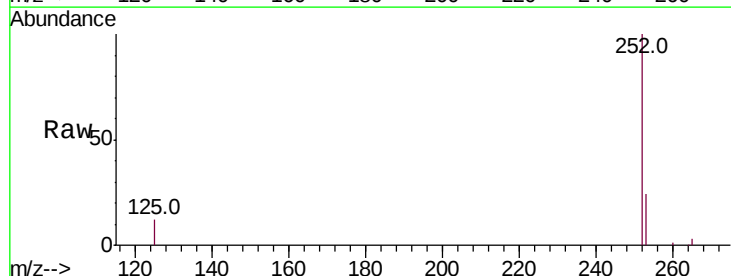
Instrument :
 BNA_N
 ClientSampleId :
 PST-026-B123-031819

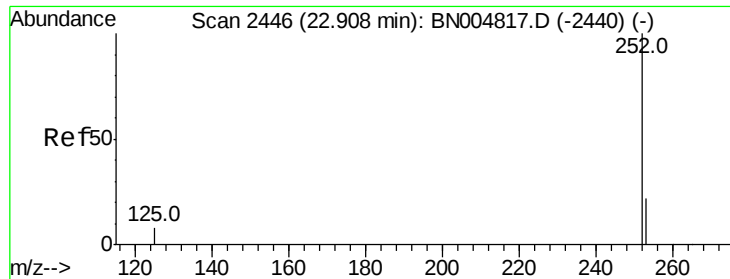
Tot Ion:264 Resp: 30889
 Ion Ratio Lower Upper
 264 100
 260 24.7 19.5 29.3
 265 28.8 23.1 34.7



#35
 Benzo(b)fluoranthene
 Concen: 0.706 ng
 RT: 22.85 min Scan# 2429
 Delta R.T. -0.01 min
 Lab File: BN004905.D
 Acq: 23 Mar 2019 03:16

Tgt Ion:252 Resp: 78851
 Ion Ratio Lower Upper
 252 100
 253 24.3 19.0 28.4
 125 12.2 7.4 11.2#

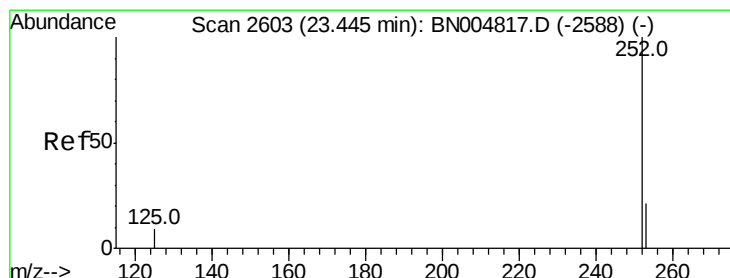
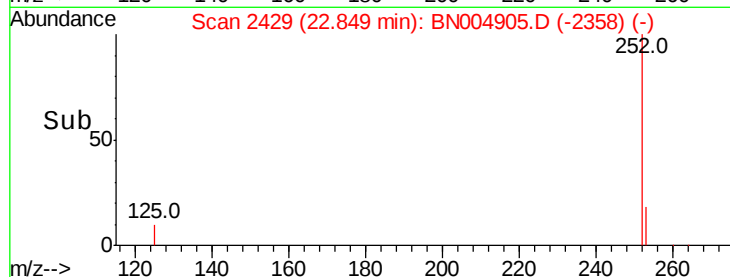
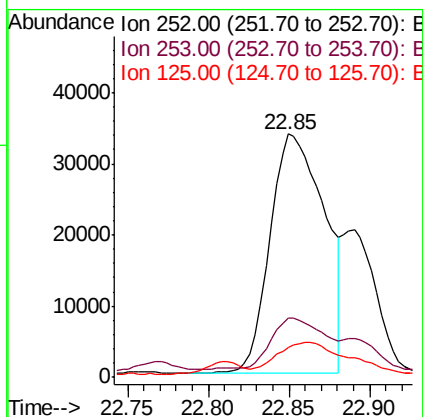
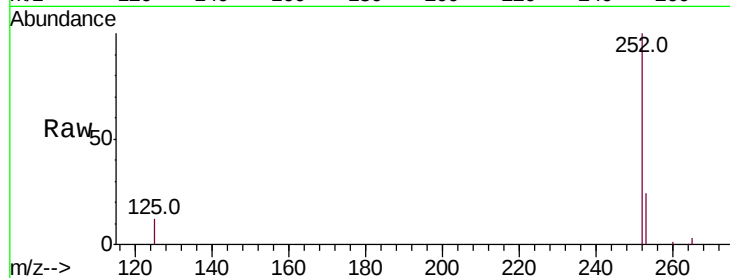




#36
Benzo(k)fluoranthene
Concen: 0.717 ng
RT: 22.85 min Scan# 2429
Delta R.T. -0.06 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

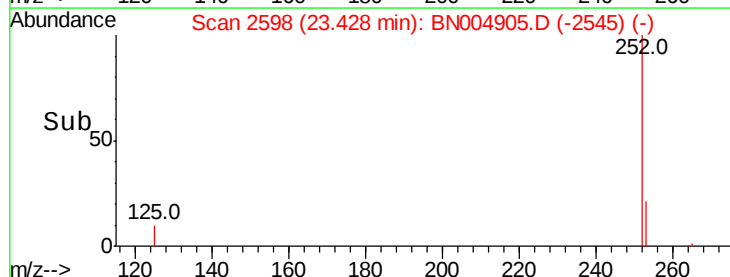
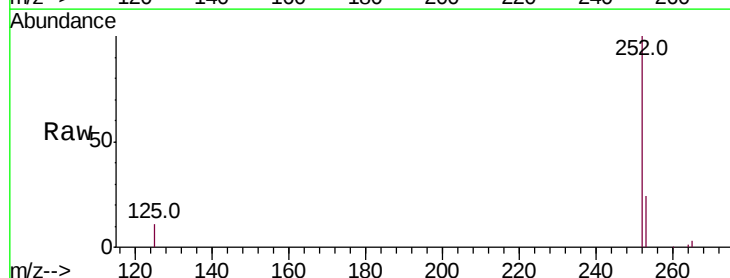
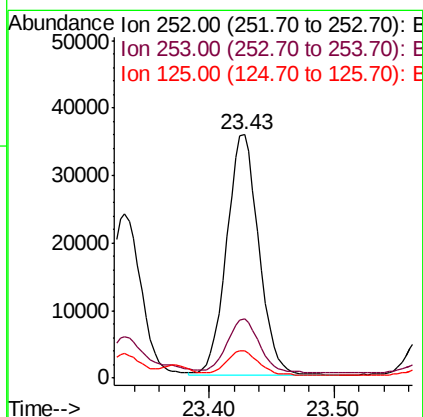
Instrument :
BNA_N
ClientSampleId :
PST-026-B123-031819

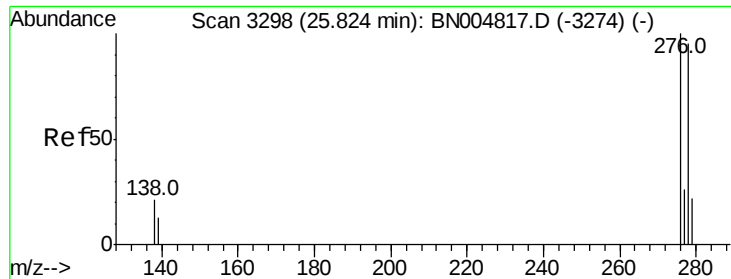
Tot Ion:252 Resp: 78851
Ion Ratio Lower Upper
252 100
253 24.3 19.3 28.9
125 12.2 7.4 11.0#



#37
Benzo(a)pyrene
Concen: 0.620 ng
RT: 23.43 min Scan# 2598
Delta R.T. -0.02 min
Lab File: BN004905.D
Acq: 23 Mar 2019 03:16

Tgt Ion:252 Resp: 63526
Ion Ratio Lower Upper
252 100
253 24.2 19.7 29.5
125 11.1 8.3 12.5





#38

Dibenzo(a,h)anthracene

Concen: 0.088 ng

RT: 25.79 min Scan# 3289

Delta R.T. -0.03 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

Instrument :

BNA_N

ClientSampleId :

PST-026-B123-031819

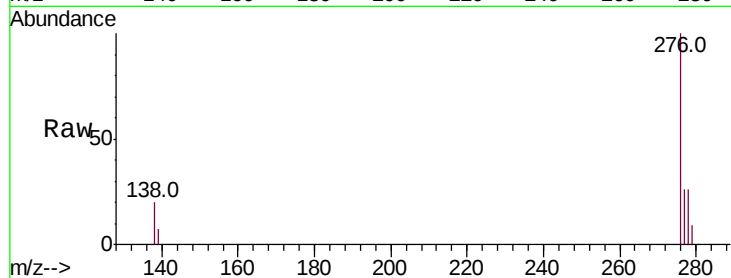
Tot Ion:278 Resp: 10425

Ion Ratio Lower Upper

278 100

139 26.9 11.7 17.5#

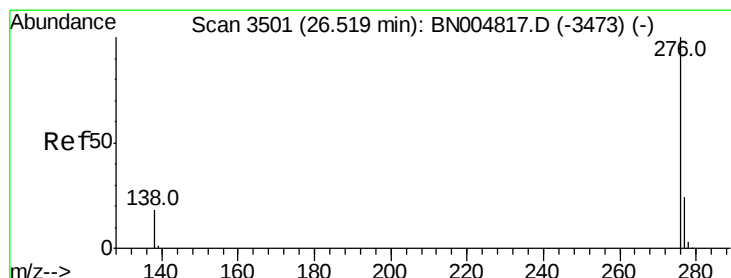
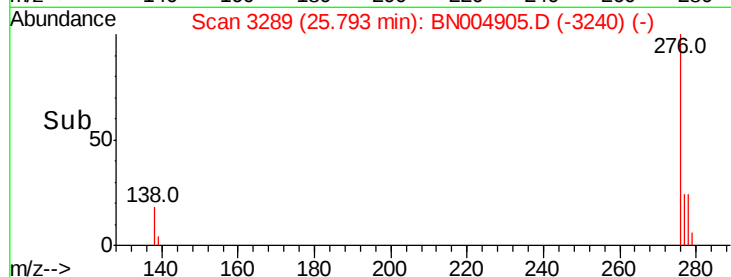
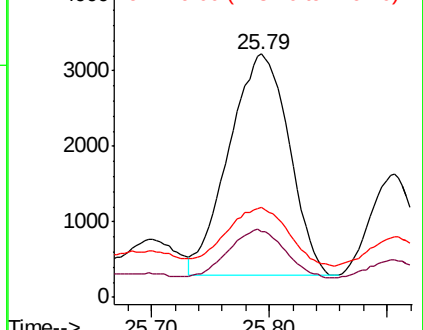
279 36.8 19.9 29.9#



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: 0.308 ng

RT: 26.49 min Scan# 3492

Delta R.T. -0.03 min

Lab File: BN004905.D

Acq: 23 Mar 2019 03:16

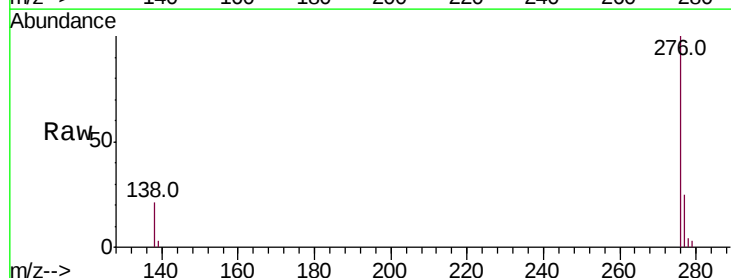
Tgt Ion:276 Resp: 37264

Ion Ratio Lower Upper

276 100

277 24.9 19.7 29.5

138 20.6 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

