

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122118\
 Data File : BN004189.D
 Acq On : 22 Dec 2018 08:45
 Operator : JU/SJ
 Sample : J6414-12
 Misc : GC-MS Confirmation
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Dec 24 07:10:55 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 24 07:07:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	31124	20.00	ng/ul	0.00
18) Naphthalene-d8	10.62	136	150044	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.46	164	92861	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.22	188	197682	20.00	ng/ul	0.01
77) Chrysene-d12	21.42	240	185065	20.00	ng/ul	0.02
85) Perylene-d12	23.73	264	178970	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	0.00	99	0	0.00	ng/ul	
7) Bis-(2-Chloroethyl)ether-d	0.00	67	0	0.00	ng/ul	
9) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/ul	
13) 4-Methylphenol-d8	0.00	113	0	0.00	ng/ul	
19) Nitrobenzene-d5	0.00	128	0	0.00	ng/ul	
22) 2-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
26) 2,4-Dichlorophenol-d3	0.00	165	0	0.00	ng/ul	
29) 4-Chloroaniline-d4	10.72	131	999	0.43	ng/ul	-0.05
43) Dimethylphthalate-d6	0.00	166	0	0.00	ng/ul	
46) Acenaphthylene-d8	0.00	160	0	0.00	ng/ul	
51) 4-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
57) Fluorene-d10	15.46	176	628	0.09	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
70) Anthracene-d10	17.22	188	197682	19.79	ng/ul	-0.09
78) Pyrene-d10	19.63	212	1784	0.22	ng/ul	0.02
89) Benzo(a)pyrene-d12	23.63	264	2204	0.23	ng/ul	0.06

Target Compounds

					Ovalue	
17) Hexachloroethane	8.99	117	2683	3.083	ng/ul#	6
28) Naphthalene	10.67	128	455667	56.603	ng/ul	99
30) 4-Chloroaniline	10.67	127	60150	25.634	ng/ul#	5
34) 2-Methylnaphthalene	12.28	142	212392	35.031	ng/ul	99
40) 1,1'-Biphenyl	13.29	154	86885	11.509	ng/ul	100
47) Acenaphthylene	14.19	152	11948	1.275	ng/ul#	78
49) Acenaphthene	14.53	153	810194	121.440	ng/ul	100
52) 4-Nitrophenol	14.53	109	1260	1.164	ng/ul#	1
53) Dibenzofuran	14.87	168	749555	79.150	ng/ul	99
58) Fluorene	15.52	166	1032562	130.952	ng/ul	99
60) 4-Nitroaniline	15.52	138	11615	5.595	ng/ul#	22
64) N-Nitrosodiphenylamine	15.72	169	7701	1.287	ng/ul#	1
69) Phenanthrene	17.29	178	5634729	493.330	ng/ul	97
71) Anthracene	17.36	178	1599899	136.649	ng/ul	99
76) Fluoranthene	19.31	202	5639740	402.835	ng/ul	98
79) Pyrene	19.67	202	4444324	429.861	ng/ul	98
82) Benzo(a)anthracene	21.40	228	2729348	236.507	ng/ul	97
84) Chrysene	21.46	228	2229216	206.232	ng/ul	98
87) Benzo(b)fluoranthene	23.04	252	1655680	154.436	ng/ul	97
88) Benzo(k)fluoranthene	23.08	252	672891	67.031	ng/ul	97
90) Benzo(a)pyrene	23.63	252	183985	17.820	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	26.10	276	288082	21.405	ng/ul	98
92) Dibenzo(a,h)anthracene	26.10	278	159494	14.256	ng/ul	97

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Instrument :
BNA_N
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Quant Time: Dec 24 07:10:55 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 24 07:07:24 2018
Response via : Initial Calibration

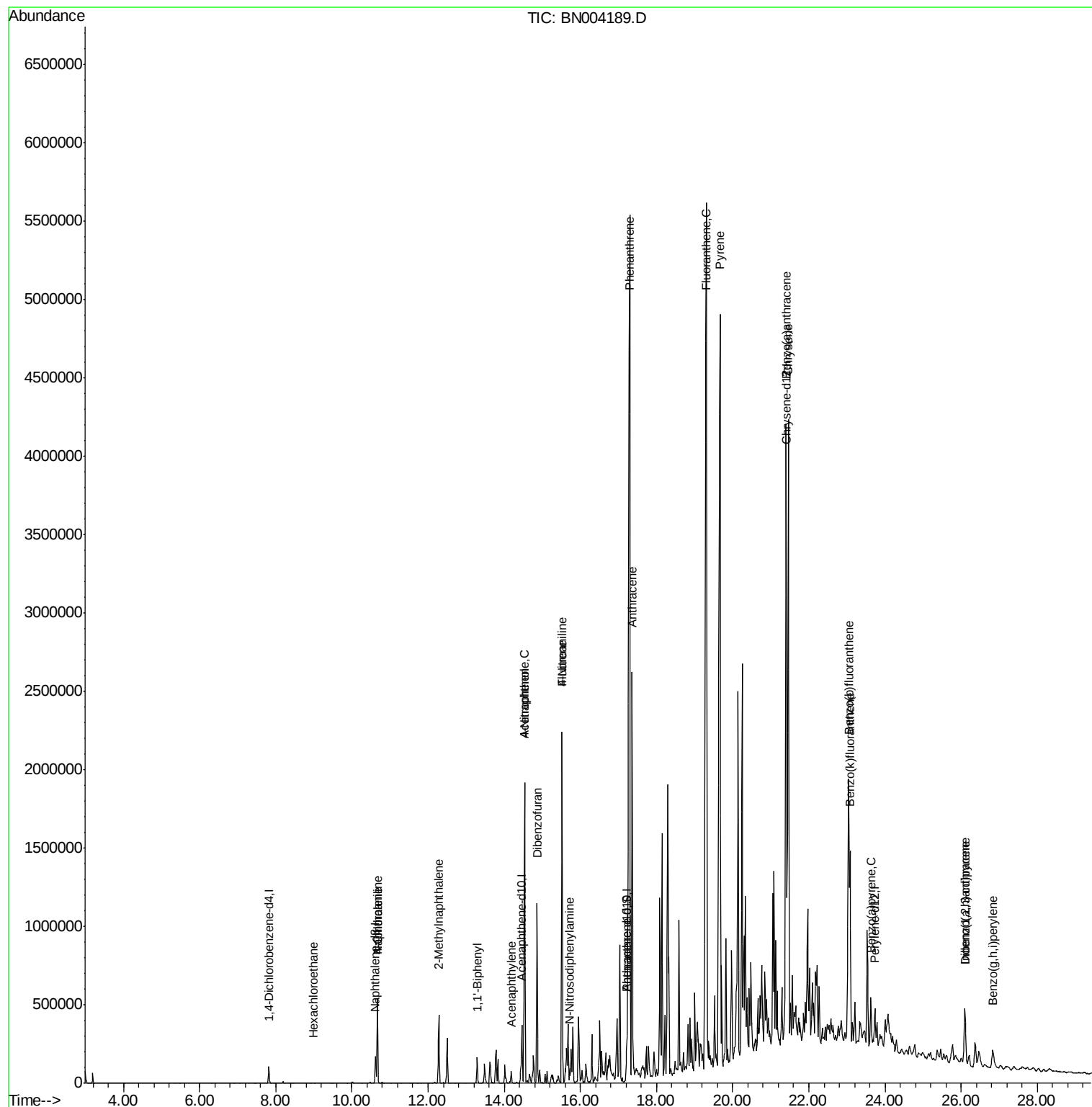
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Benzo(q,h,i)perylene	26.83	276	112579	9.994	ng/ul	98

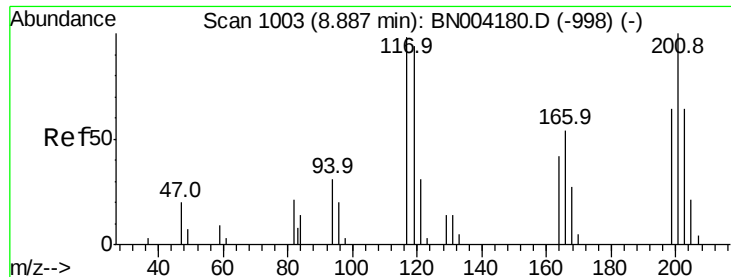
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
BNA_N
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Quant Time: Dec 24 07:10:55 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 24 07:07:24 2018
Response via : Initial Calibration





#17

Hexachloroethane

Concen: 3.083 ng/ul

RT: 8.99 min Scan# 1021

Delta R.T. 0.11 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampleId :

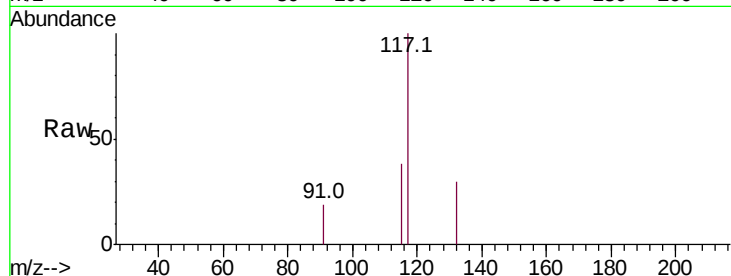
Tot Ion:117 Resp: 2683

Ion Ratio Lower Upper

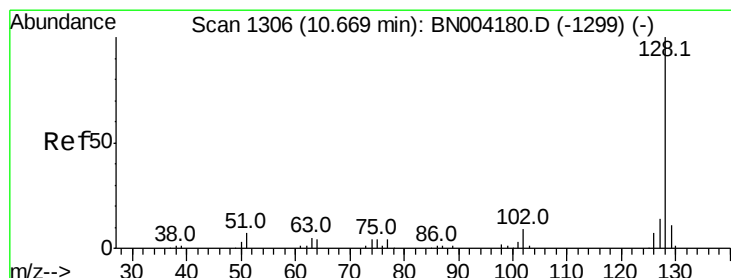
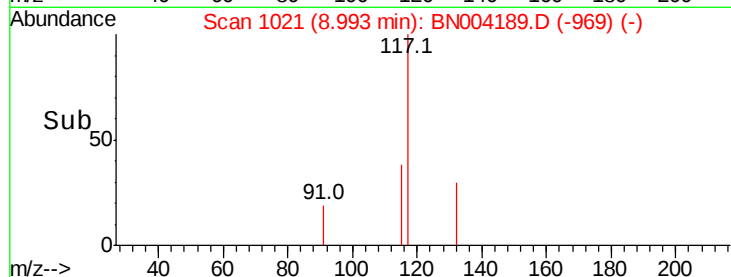
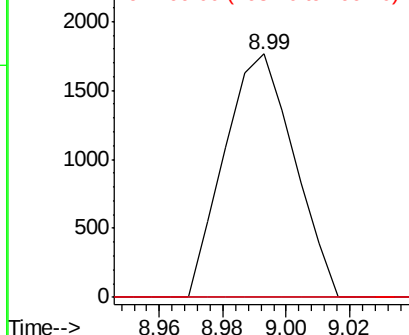
117 100

201 0.0 82.1 123.1#

199 0.0 50.6 76.0#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 56.603 ng/ul

RT: 10.67 min Scan# 1306

Delta R.T. -0.00 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

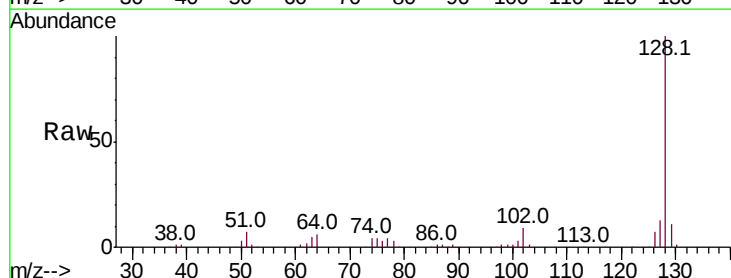
Tgt Ion:128 Resp: 455667

Ion Ratio Lower Upper

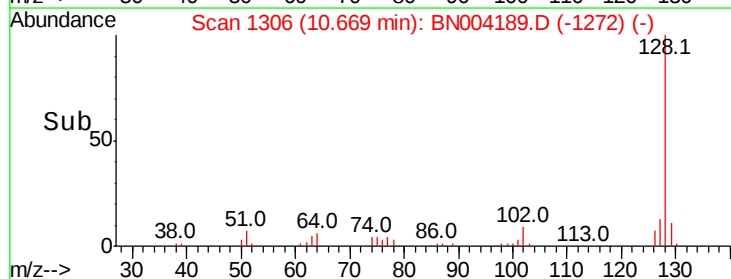
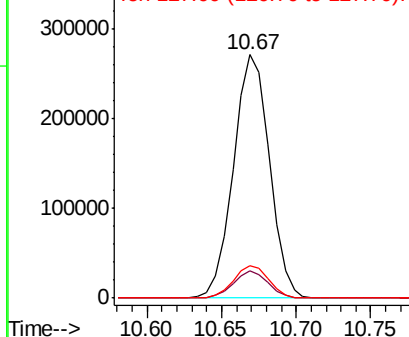
128 100

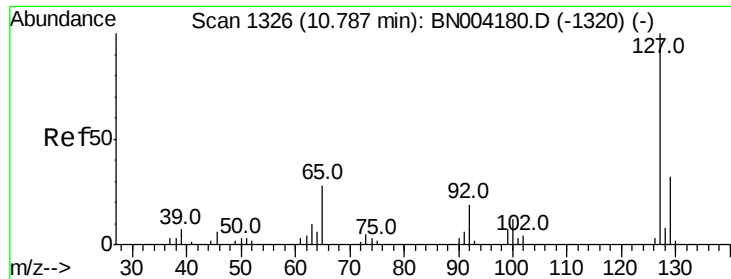
129 11.2 8.6 12.8

127 13.3 10.6 16.0



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

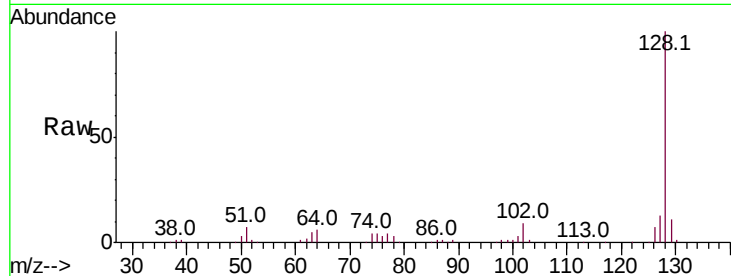




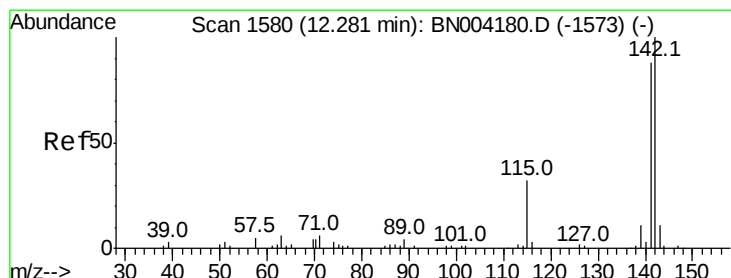
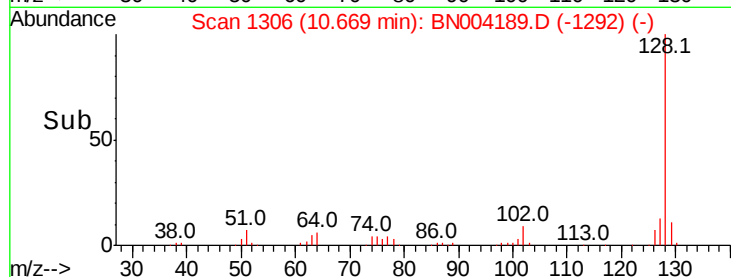
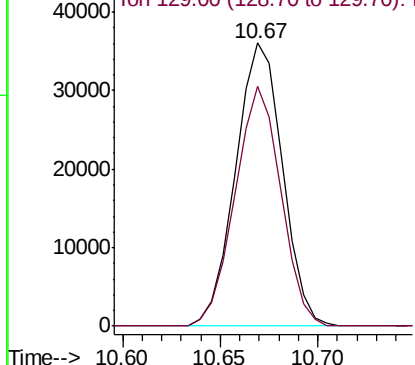
#30
 4-Chloroaniline
 Concen: 25.634 ng/ul
 RT: 10.67 min Scan# 1306
 Delta R.T. -0.12 min
 Lab File: BN004189.D
 Acq: 22 Dec 2018 08:45

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:127 Resp: 60150
 Ion Ratio Lower Upper
 127 100
 129 84.5 25.5 38.3#

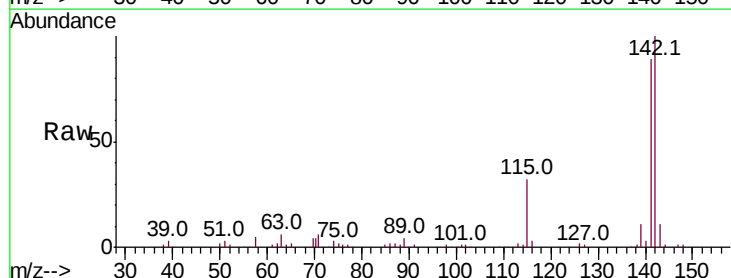


Abundance Ion 127.00 (126.70 to 127.70): E
 Ion 129.00 (128.70 to 129.70): E

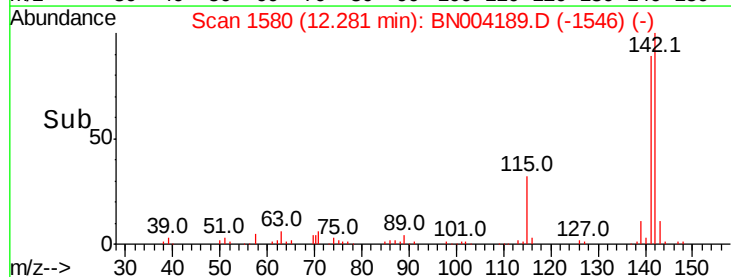
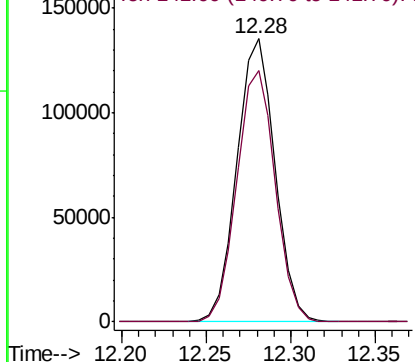


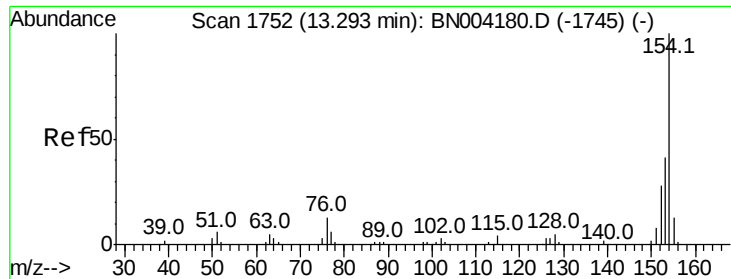
#34
 2-Methylnaphthalene
 Concen: 35.031 ng/ul
 RT: 12.28 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BN004189.D
 Acq: 22 Dec 2018 08:45

Tgt Ion:142 Resp: 212392
 Ion Ratio Lower Upper
 142 100
 141 88.7 70.2 105.2



Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E

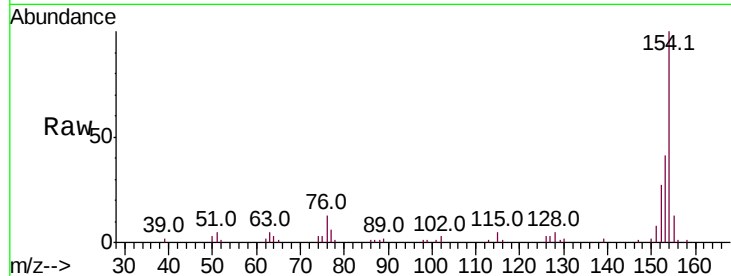




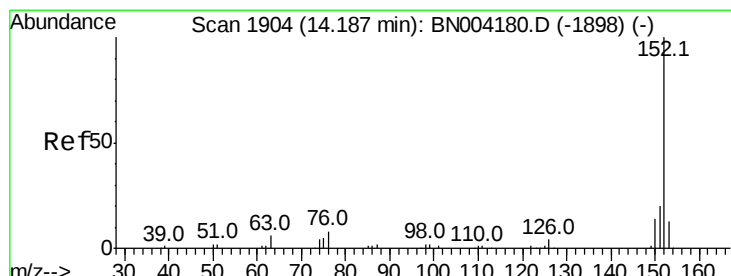
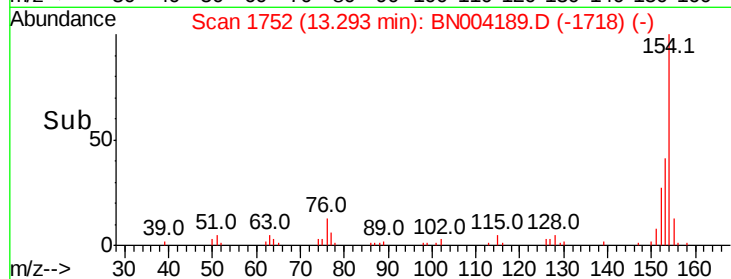
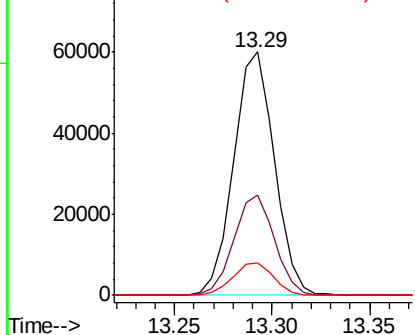
#40
 1,1'-Biphenyl
 Concen: 11.509 ng/ul
 RT: 13.29 min Scan# 1752
 Delta R.T. -0.00 min
 Lab File: BN004189.D
 Acq: 22 Dec 2018 08:45

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
154	100		
153	41.4	33.1	49.7
76	13.1	10.6	16.0

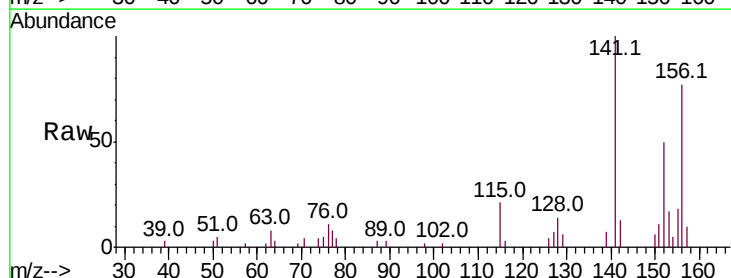


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BNO

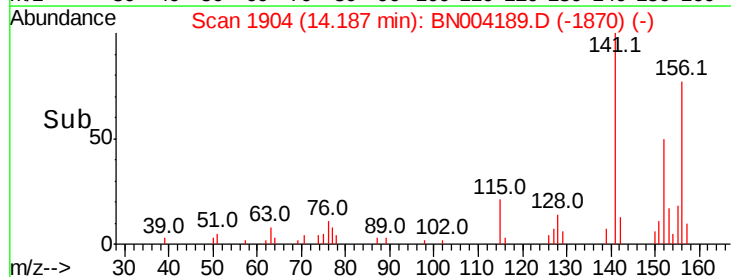
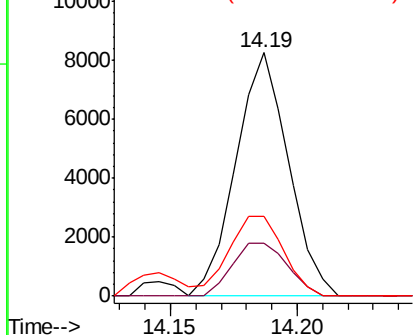


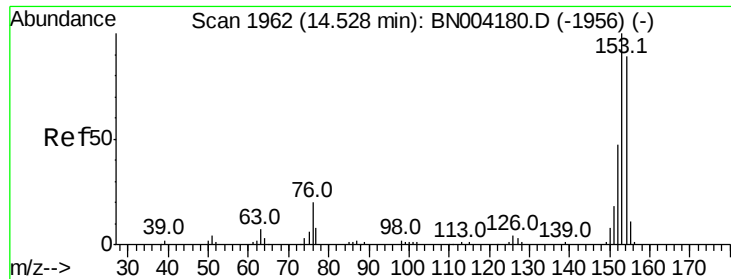
#47
 Acenaphthylene
 Concen: 1.275 ng/ul
 RT: 14.19 min Scan# 1904
 Delta R.T. -0.00 min
 Lab File: BN004189.D
 Acq: 22 Dec 2018 08:45

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.2	24.2
153	32.9	10.6	15.8#



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 121.440 ng/ul

RT: 14.53 min Scan# 1963

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampleId :

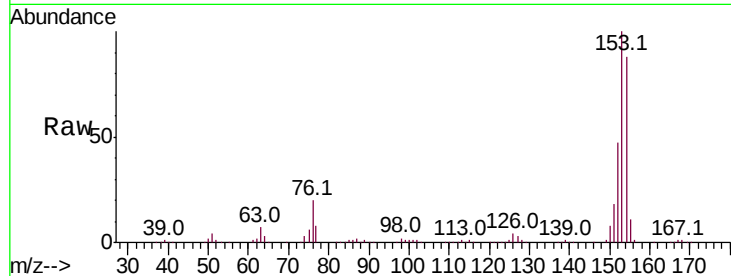
Tot Ion:153 Resp: 810194

Ion Ratio Lower Upper

153 100

152 47.2 37.8 56.6

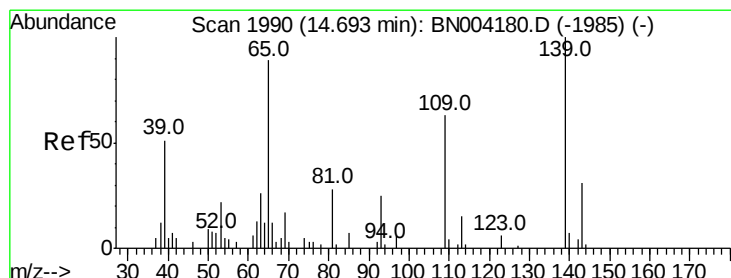
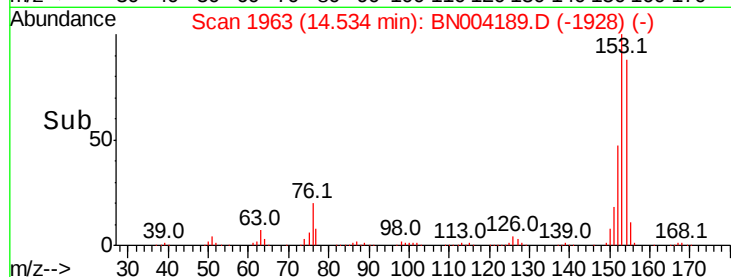
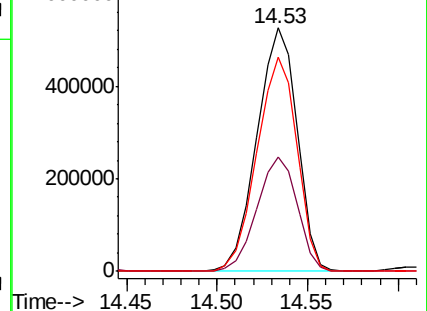
154 88.1 71.0 106.6



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#52

4-Nitrophenol

Concen: 1.164 ng/ul

RT: 14.53 min Scan# 1963

Delta R.T. -0.16 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

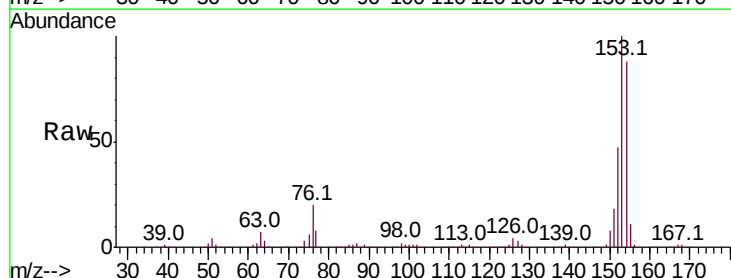
Tgt Ion:109 Resp: 1260

Ion Ratio Lower Upper

109 100

139 398.9 125.0 187.4#

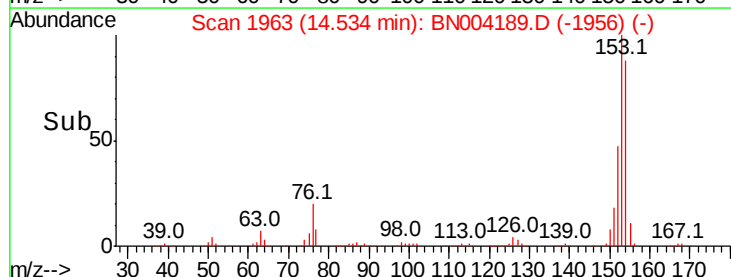
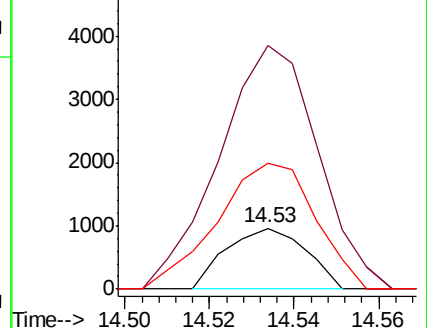
65 206.2 110.8 166.2#

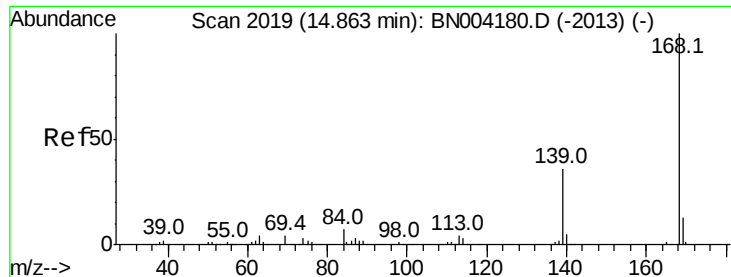


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BNC





#53

Dibenzenofuran

Concen: 79.150 ng/ul

RT: 14.87 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

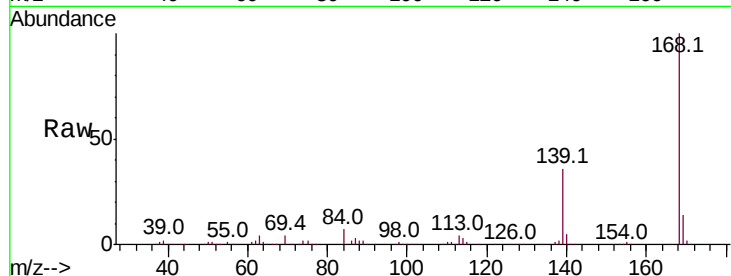
ClientSampleId :

Tot Ion:168 Resp: 749555

Ion Ratio Lower Upper

168 100

139 36.3 28.8 43.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

600000

500000

400000

300000

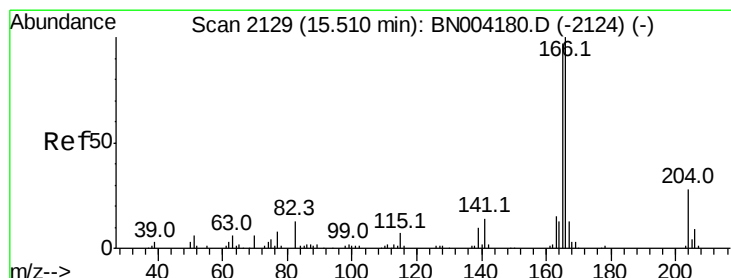
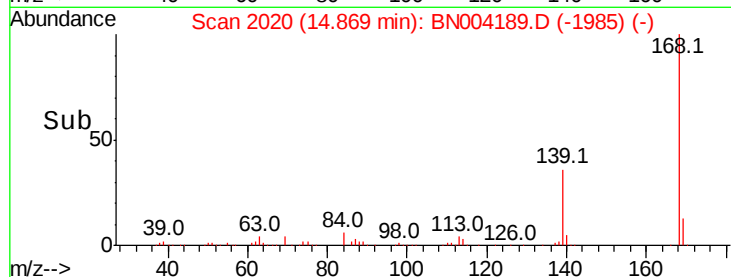
200000

100000

0

14.80 14.85 14.90

Time-->



#58

Fluorene

Concen: 130.952 ng/ul

RT: 15.52 min Scan# 2131

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

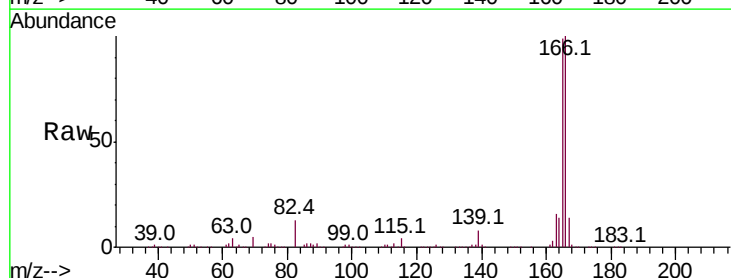
Tgt Ion:166 Resp: 1032562

Ion Ratio Lower Upper

166 100

165 98.7 78.6 117.8

167 13.8 10.3 15.5



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

800000

600000

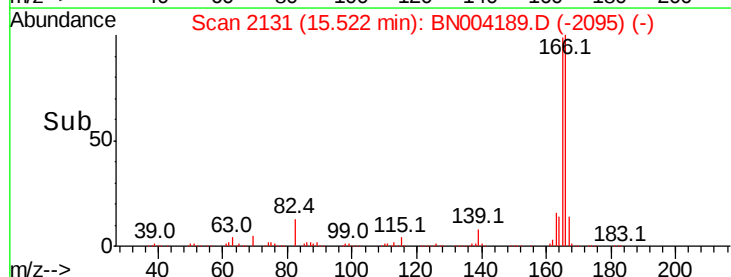
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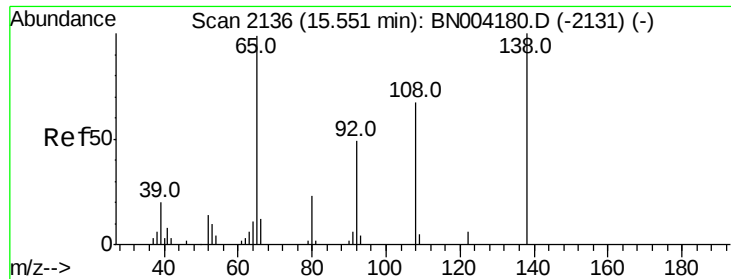
200000

0

15.45 15.50 15.55 15.60

Time-->

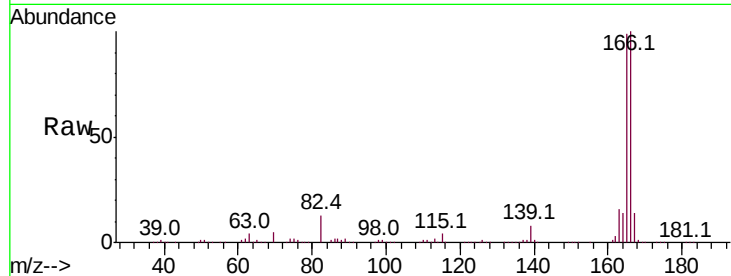




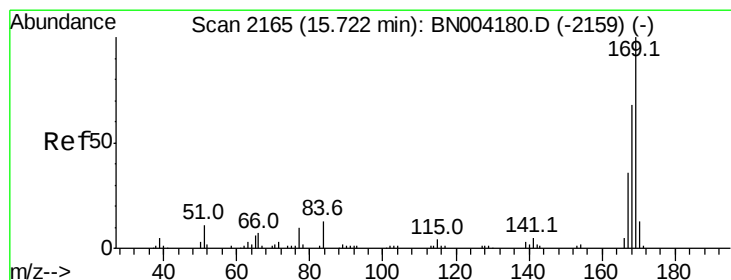
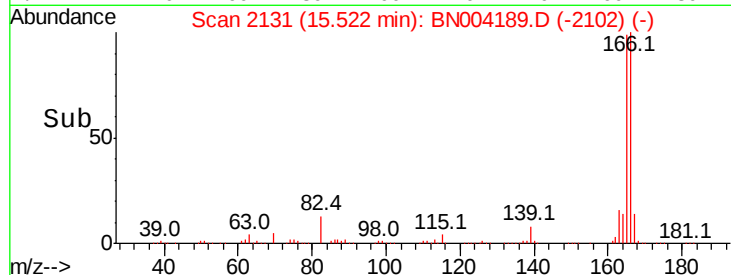
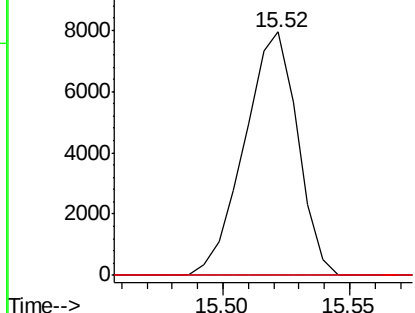
#60
4-Nitroaniline
Concen: 5.595 ng/ul
RT: 15.52 min Scan# 2131
Delta R.T. -0.03 min
Lab File: BN004189.D
Acq: 22 Dec 2018 08:45

Instrument :
BNA_N
ClientSampleId :

Tot Ion:138 Resp: 11615
Ion Ratio Lower Upper
138 100
92 0.0 39.0 58.4#
108 0.0 52.2 78.4#

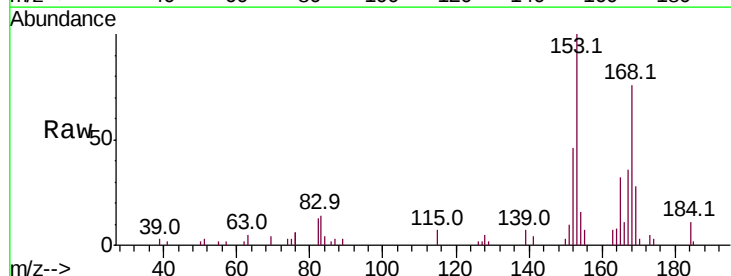


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BNA_N
Ion 108.00 (107.70 to 108.70): E

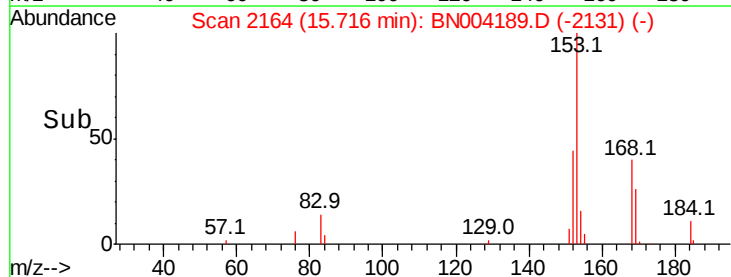
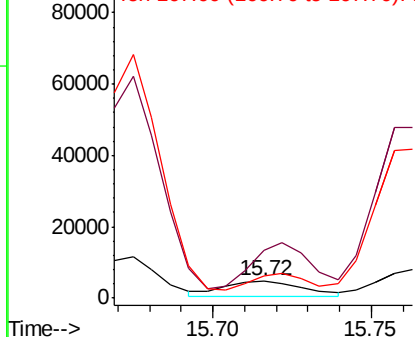


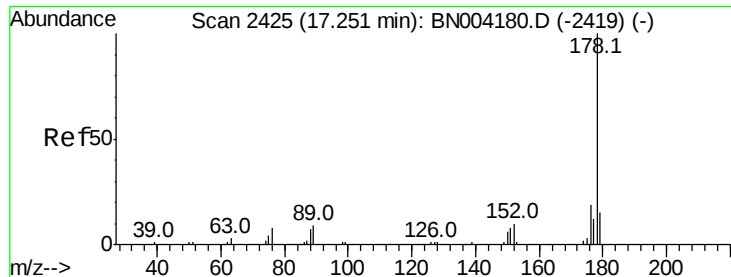
#64
N-Nitrosodiphenylamine
Concen: 1.287 ng/ul
RT: 15.72 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BN004189.D
Acq: 22 Dec 2018 08:45

Tgt Ion:169 Resp: 7701
Ion Ratio Lower Upper
169 100
168 272.7 53.7 80.5#
167 127.9 28.6 42.8#



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 493.330 ng/ul

RT: 17.29 min Scan# 2432

Delta R.T. 0.04 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampleId :

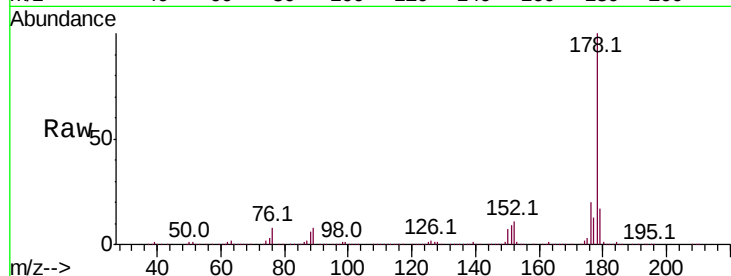
Tot Ion:178 Resp: 5634729

Ion Ratio Lower Upper

178 100

179 16.6 12.1 18.1

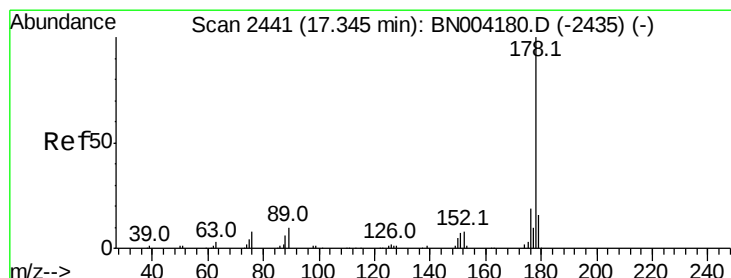
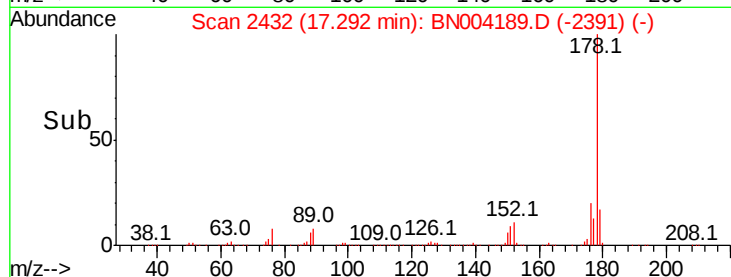
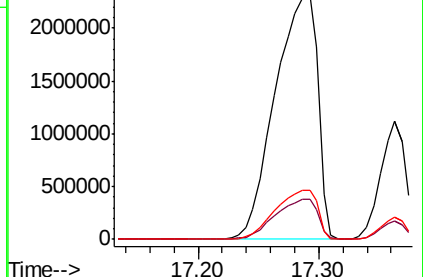
176 20.3 15.0 22.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 136.649 ng/ul

RT: 17.36 min Scan# 2444

Delta R.T. 0.02 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

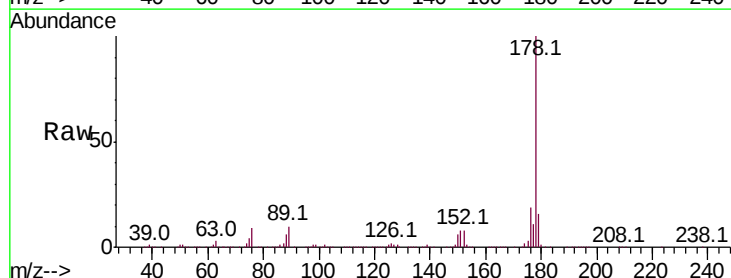
Tgt Ion:178 Resp: 1599899

Ion Ratio Lower Upper

178 100

179 15.7 12.1 18.1

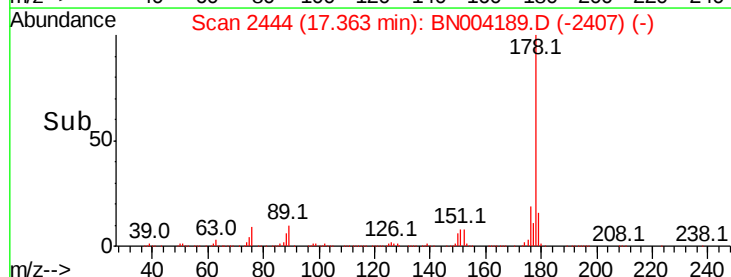
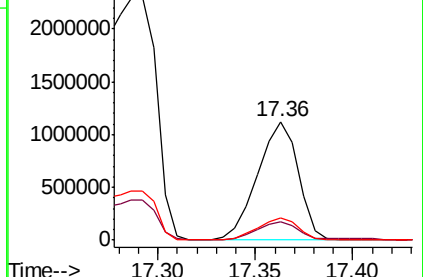
176 18.8 15.2 22.8

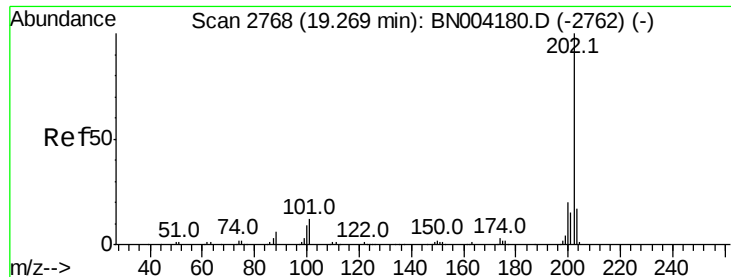


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Fluoranthene

Concen: 402.835 ng/ul

RT: 19.31 min Scan# 2775

Delta R.T. 0.04 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampleId :

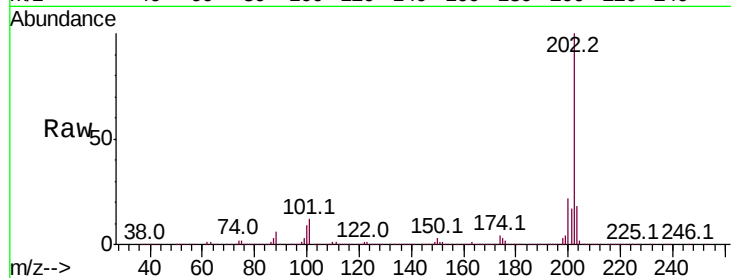
Tot Ion:202 Resp: 5639740

Ion Ratio Lower Upper

202 100

101 12.0 10.2 15.2

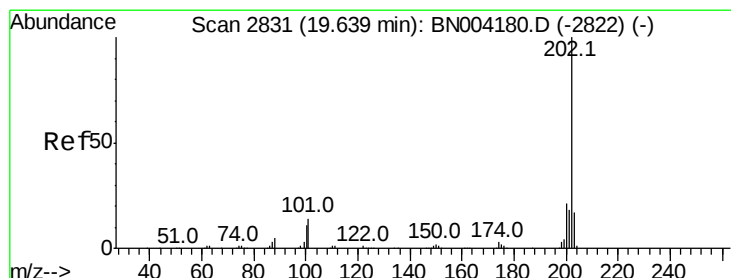
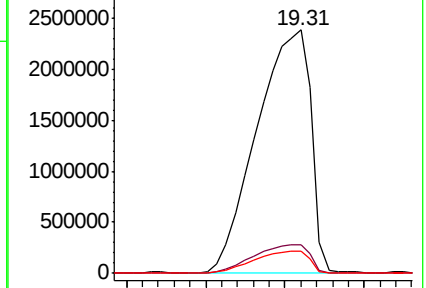
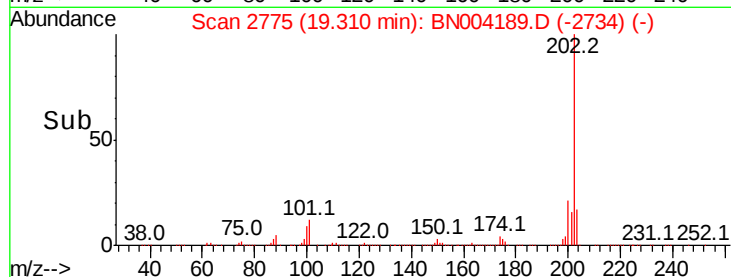
100 9.2 7.8 11.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 429.861 ng/ul

RT: 19.67 min Scan# 2836

Delta R.T. 0.03 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

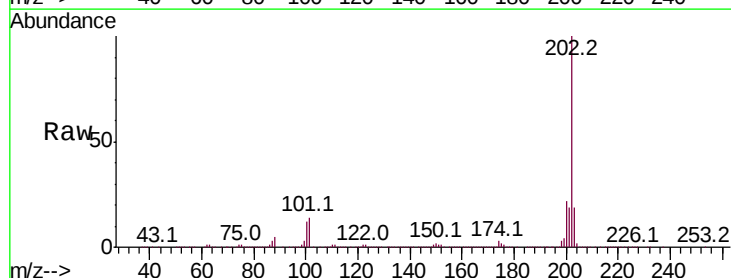
Tgt Ion:202 Resp: 4444324

Ion Ratio Lower Upper

202 100

101 14.3 12.2 18.2

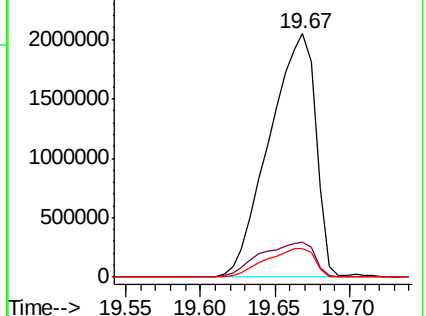
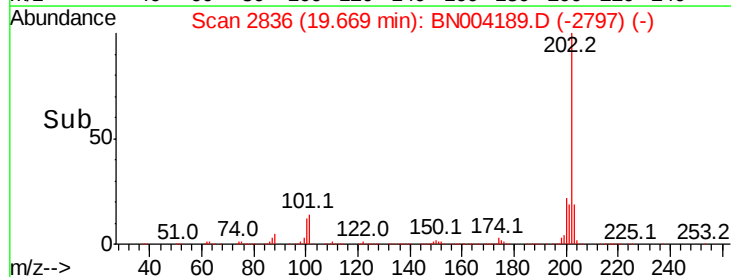
100 11.8 9.9 14.9

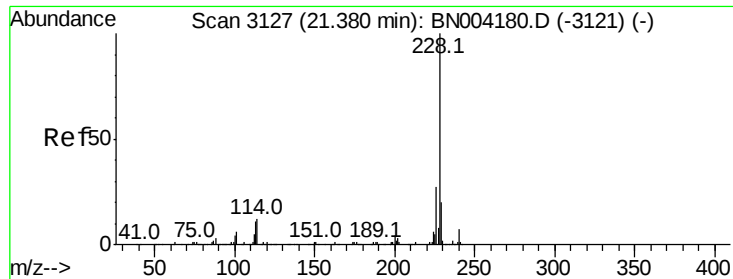


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 236.507 ng/ul

RT: 21.40 min Scan# 3131

Delta R.T. 0.02 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampleId :

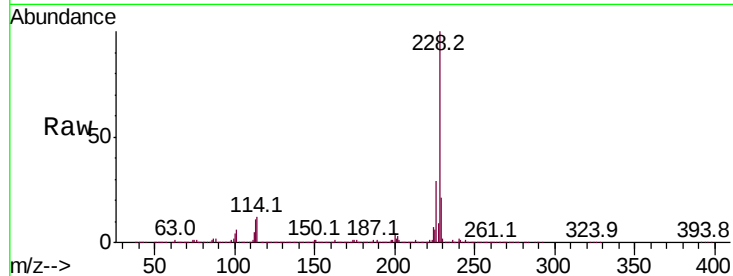
Tot Ion:228 Resp: 2729348

Ion Ratio Lower Upper

228 100

229 21.1 15.9 23.9

226 28.6 21.4 32.2

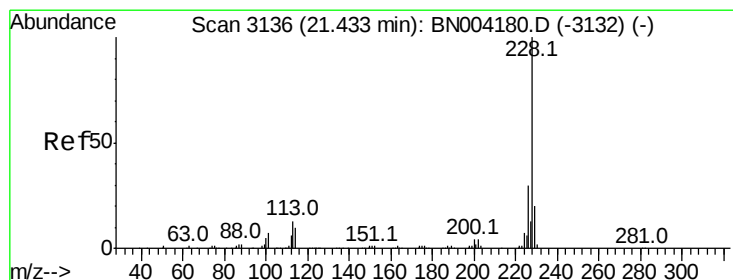
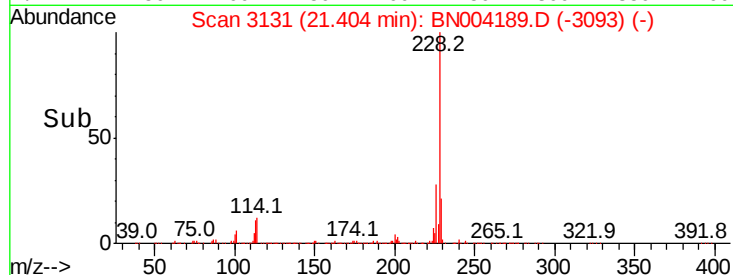
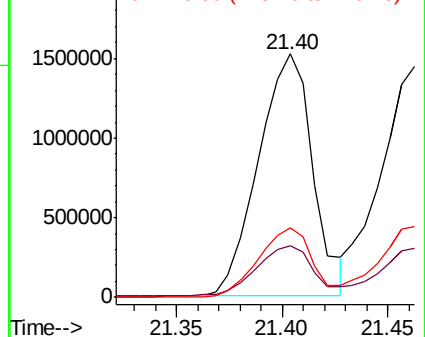


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#84

Chrysene

Concen: 206.232 ng/ul

RT: 21.46 min Scan# 3141

Delta R.T. 0.03 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

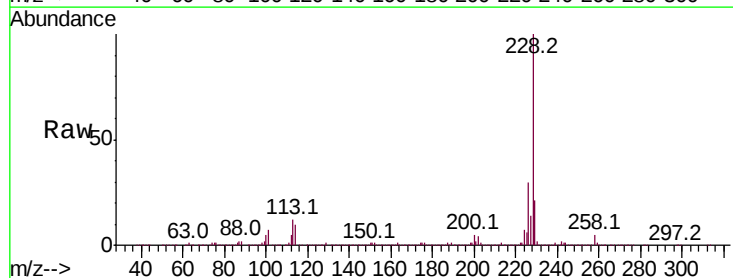
Tgt Ion:228 Resp: 2229216

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.8

229 21.1 15.8 23.6

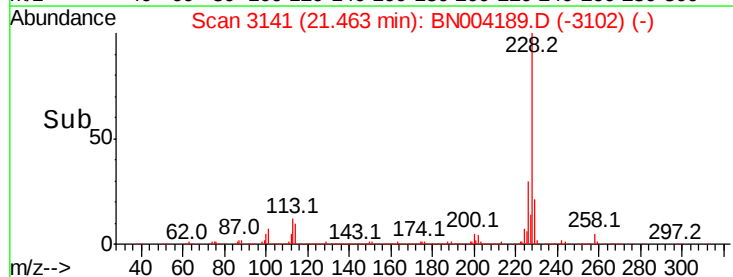
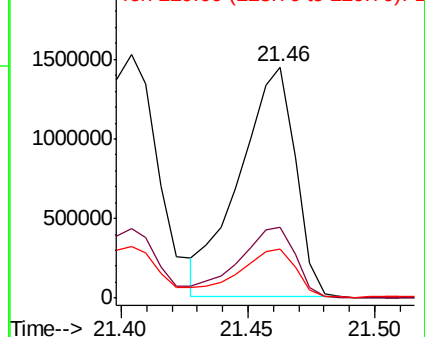


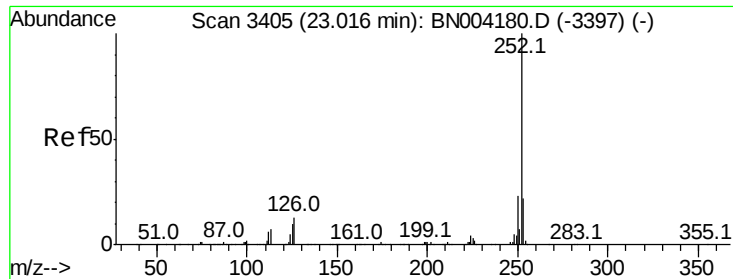
Abundance

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





#87

Benzo(b)fluoranthene

Concen: 154.436 ng/ul

RT: 23.04 min Scan# 3410

Delta R.T. 0.03 min

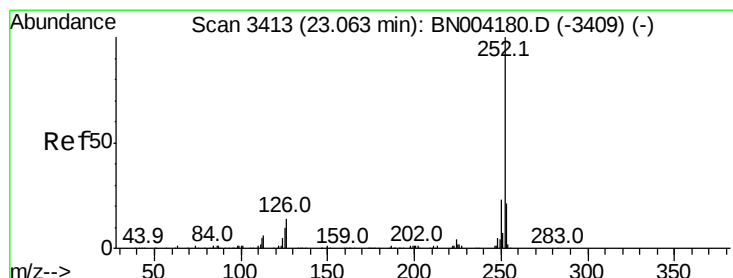
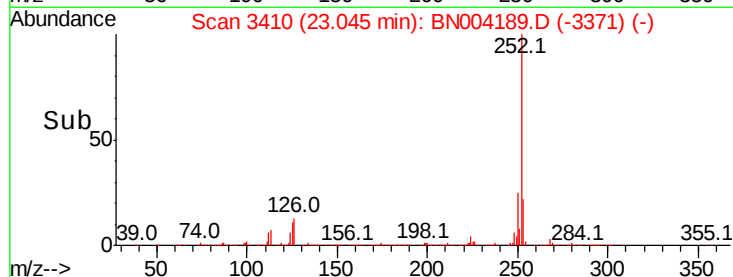
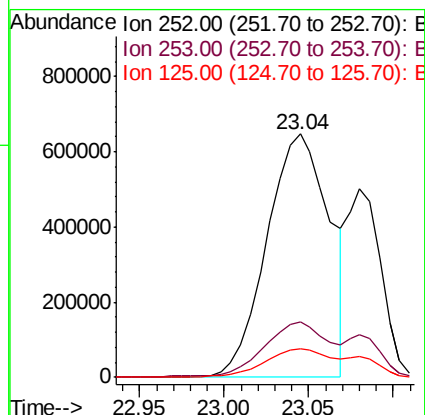
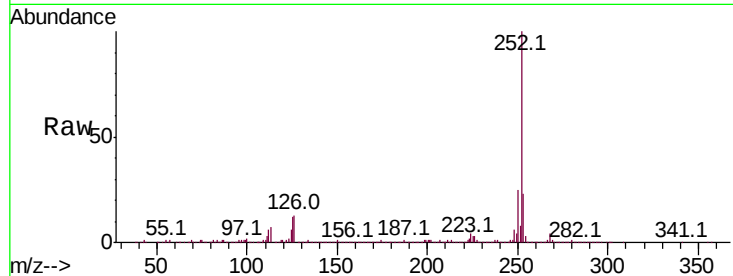
Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 1655680

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.3	25.9
125	11.5	8.2	12.4



#88

Benzo(k)fluoranthene

Concen: 67.031 ng/ul

RT: 23.08 min Scan# 3416

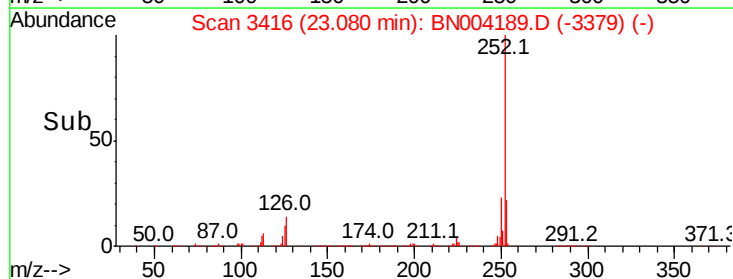
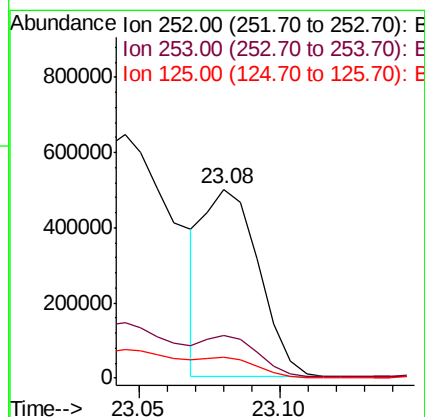
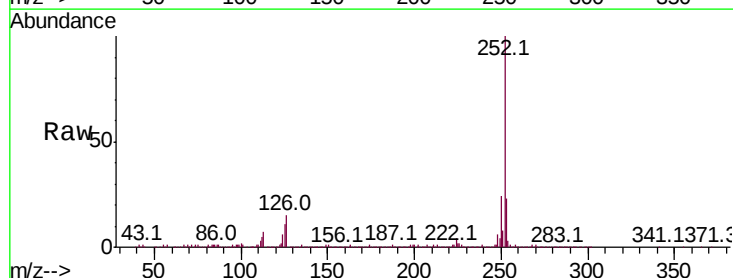
Delta R.T. 0.02 min

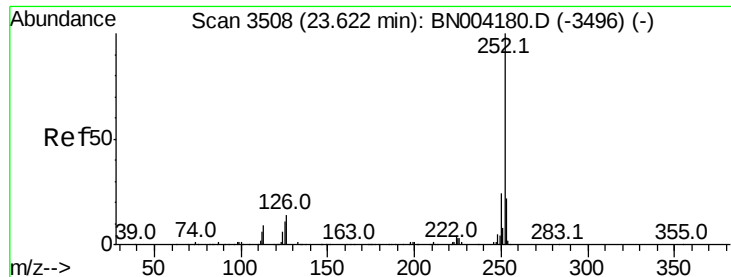
Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Tgt Ion:252 Resp: 672891

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	11.1	7.9	11.9





#90

Benzo(a)pyrene

Concen: 17.820 ng/ul

RT: 23.63 min Scan# 3510

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampled :

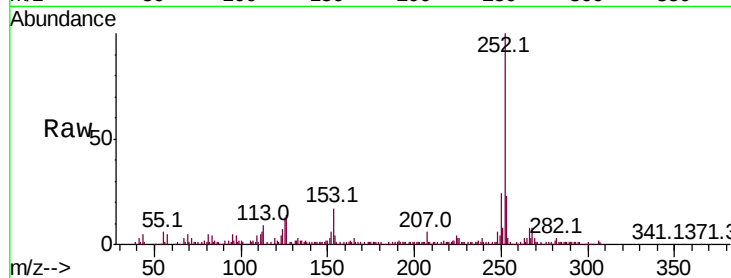
Tot Ion:252 Resp: 183985

Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

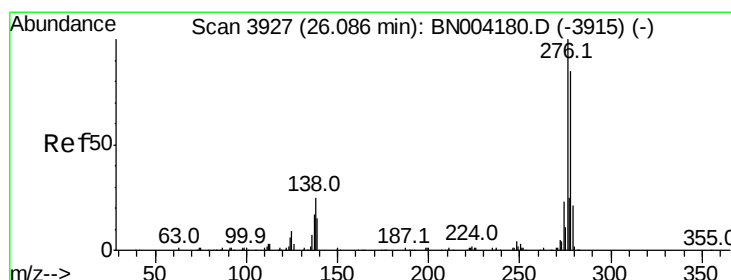
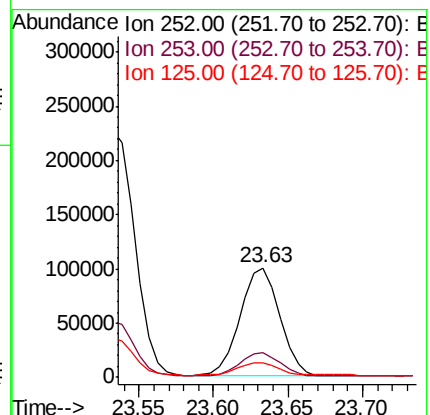
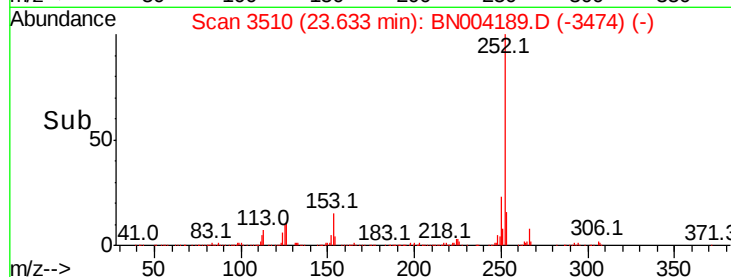
125 12.8 9.1 13.7



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



#91

Indeno(1,2,3-cd)pyrene

Concen: 21.405 ng/ul

RT: 26.10 min Scan# 3929

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

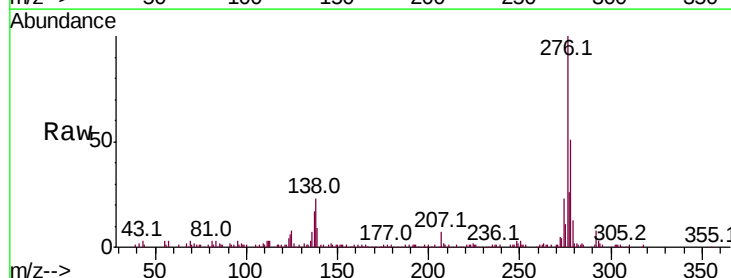
Tgt Ion:276 Resp: 288082

Ion Ratio Lower Upper

276 100

138 23.4 20.4 30.6

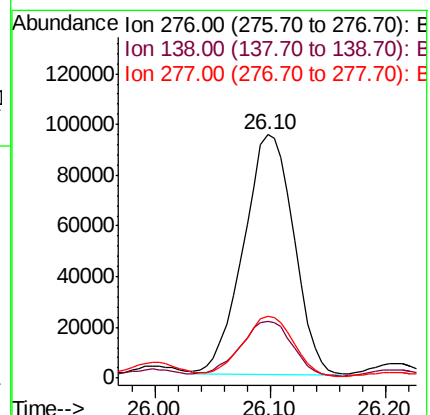
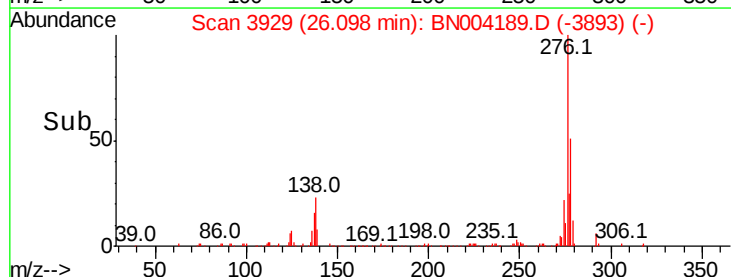
277 25.5 20.6 30.8

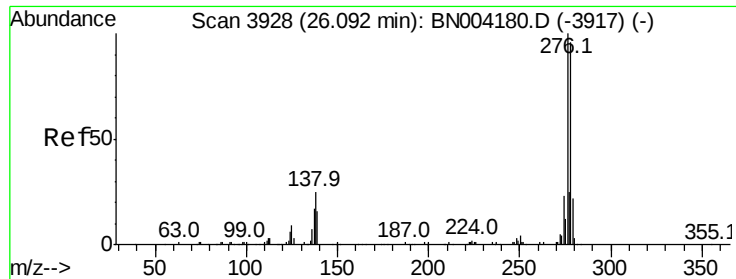


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 14.256 ng/u1

RT: 26.10 min Scan# 3929

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

Instrument :

BNA_N

ClientSampleId :

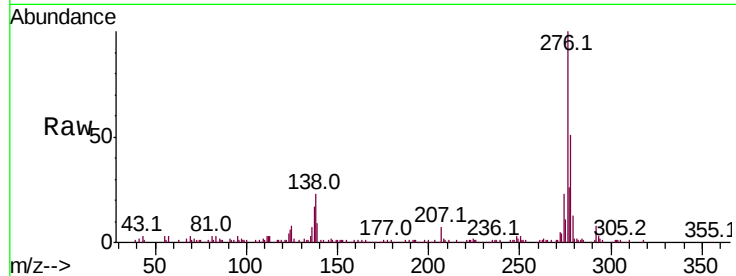
Tot Ion:278 Resp: 159494

Ion Ratio Lower Upper

278 100

139 18.0 13.3 19.9

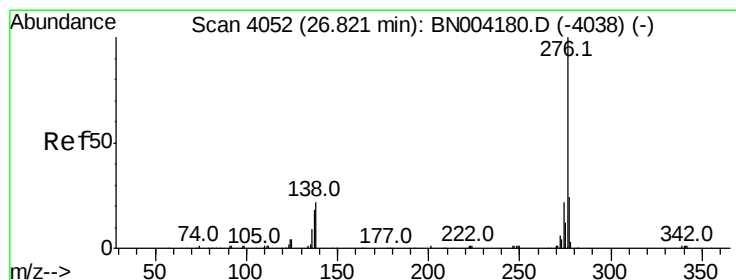
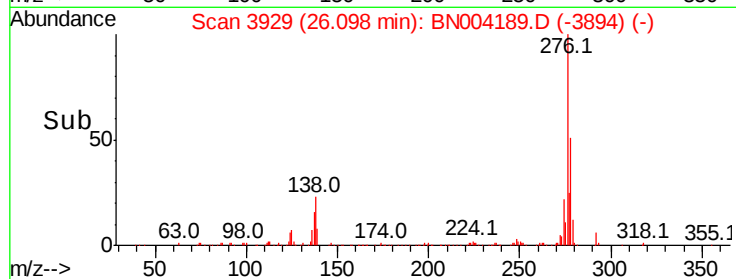
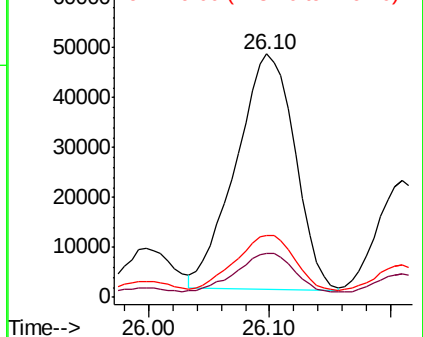
279 25.3 19.0 28.6



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



#93

Benzo(g,h,i)perylene

Concen: 9.994 ng/u1

RT: 26.83 min Scan# 4054

Delta R.T. 0.01 min

Lab File: BN004189.D

Acq: 22 Dec 2018 08:45

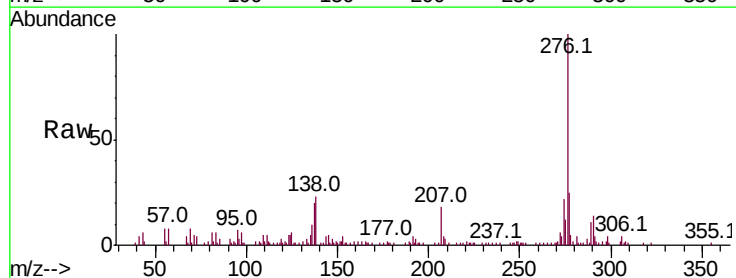
Tgt Ion:276 Resp: 112579

Ion Ratio Lower Upper

276 100

138 22.7 18.2 27.4

277 25.3 19.0 28.6



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

