

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
 Data File : BF104873.D
 Acq On : 27 Apr 2018 10:05
 Operator : JU/SJ
 Sample : J2515-01 10X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 27 11:12:25 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	102040	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	406332	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	164158	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	243281	20.00	ng	0.00
75) Chrysene-d12	13.97	240	212769	20.00	ng	-0.01
86) Perylene-d12	15.44	264	153145	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	79049	11.85	ng	0.00
7) Phenol-d6	6.43	99	101580	12.39	ng	-0.01
23) Nitrobenzene-d5	7.36	82	57368	9.22	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	17410	10.22	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	94876	9.13	ng	0.00
78) Terphenyl-d14	12.91	244	68321	7.32	ng	-0.01

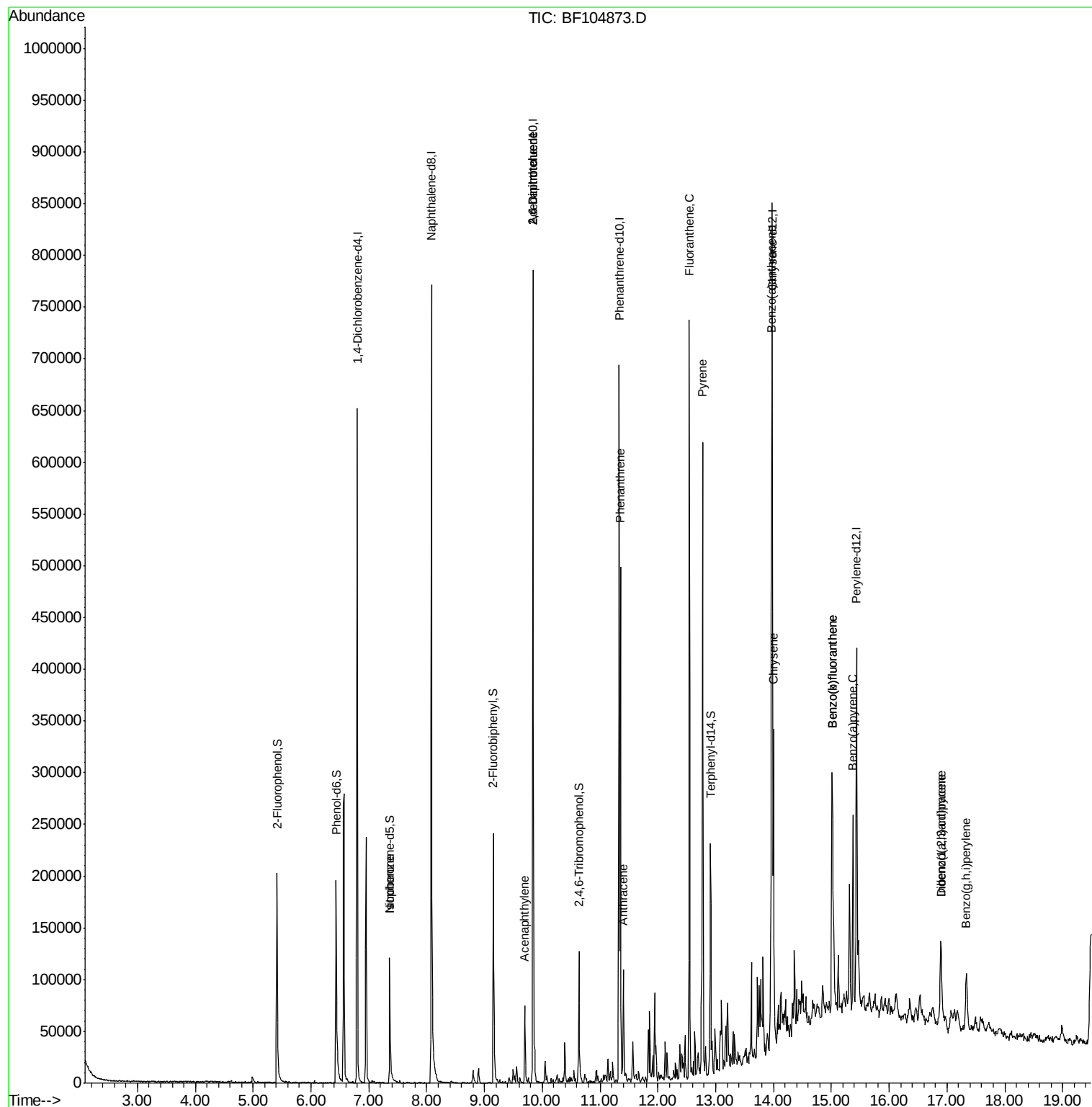
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.57	77	1609	Below Cal		94
25) Isophorone	7.36	82	57368	4.360 ng	#	64
48) Acenaphthylene	9.70	152	35447	2.074 ng		98
50) 2,6-Dinitrotoluene	9.84	165	20585	8.594 ng	#	24
56) 2,4-Dinitrotoluene	9.84	165	20585	6.552 ng	#	21
70) Phenanthrene	11.35	178	174231	12.860 ng		97
71) Anthracene	11.40	178	48890	3.550 ng		99
74) Fluoranthene	12.54	202	272950	19.283 ng		98
76) Benzidine	12.91	184	782	Below Cal	#	66
77) Pyrene	12.77	202	227297	14.412 ng		98
80) Benzo(a)anthracene	13.96	228	136175	10.713 ng		99
82) Chrysene	14.00	228	121483	9.305 ng		96
85) Indeno(1,2,3-cd)pyrene	16.89	276	47717	4.302 ng	#	91
87) Benzo(b)fluoranthene	15.02	252	170741	17.652 ng		97
88) Benzo(k)fluoranthene	15.02	252	170741	18.698 ng		98
89) Benzo(a)pyrene	15.37	252	82262	9.505 ng		96
90) Dibenzo(a,h)anthracene	16.90	278	14979	2.107 ng	#	89
91) Benzo(g,h,i)perylene	17.34	276	45941	6.671 ng		94

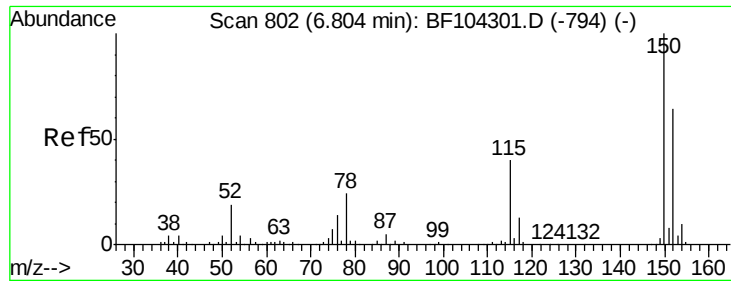
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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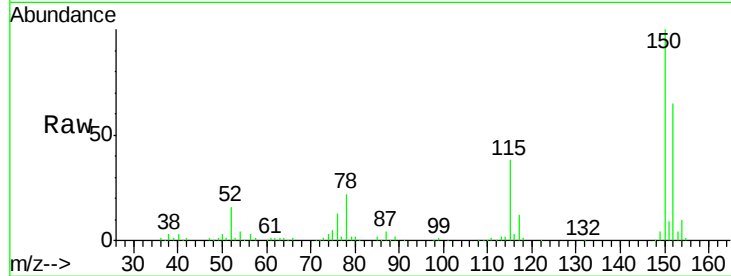


#1

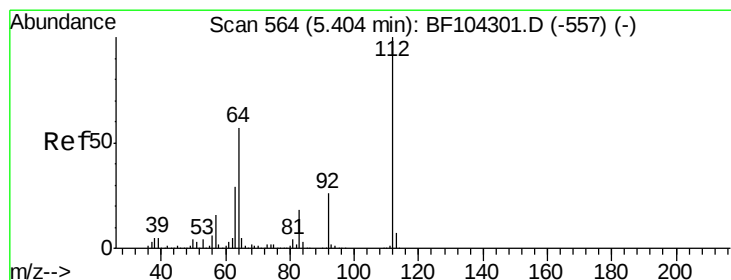
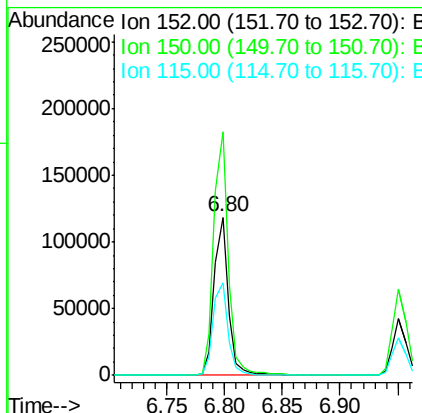
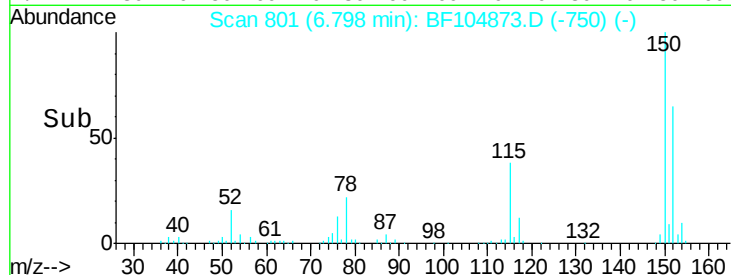
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 102040
Ion Ratio Lower Upper
152 100
150 153.7 124.6 186.8
115 58.8 50.1 75.1



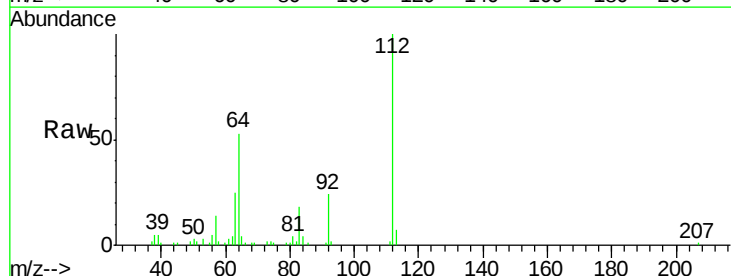
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



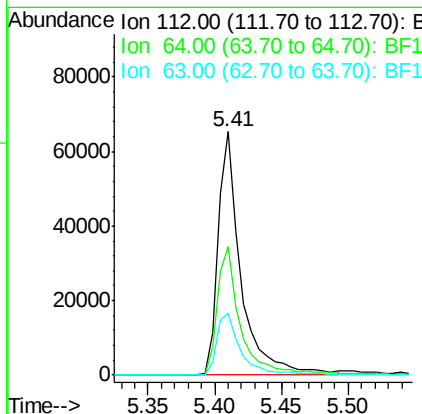
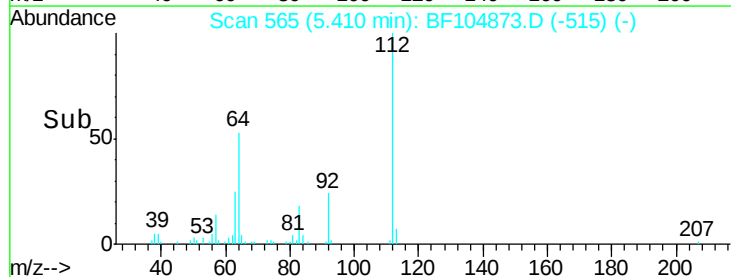
#5

2-Fluorophenol
Concen: 11.845 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion:112 Resp: 79049
Ion Ratio Lower Upper
112 100
64 52.6 47.9 71.9
63 25.3 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 12.389 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Instrument :

BNA_F

ClientSampleId :

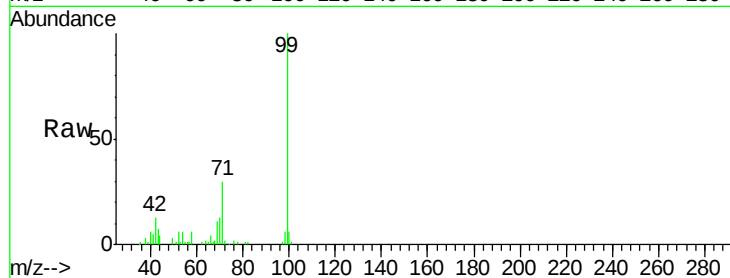
Tot Ion: 99 Resp: 101580

Ion Ratio Lower Upper

99 100

42 13.3 14.5 21.7#

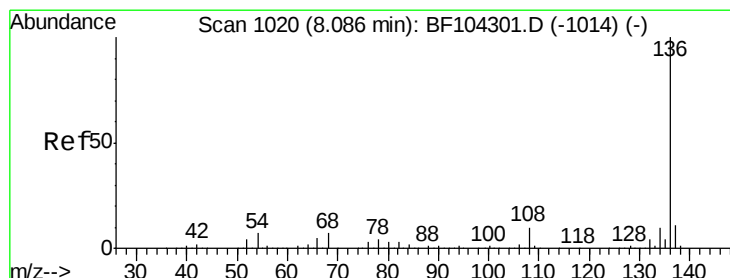
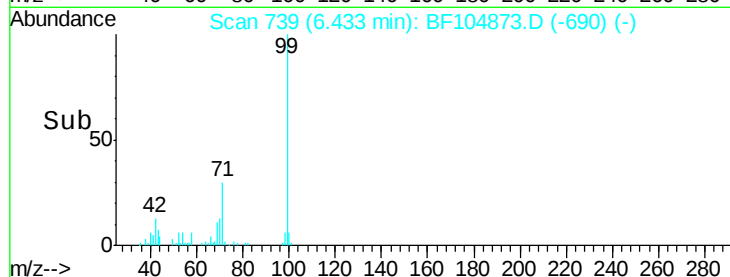
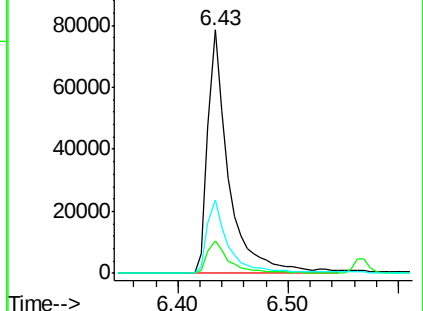
71 30.0 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Tgt Ion: 136 Resp: 406332

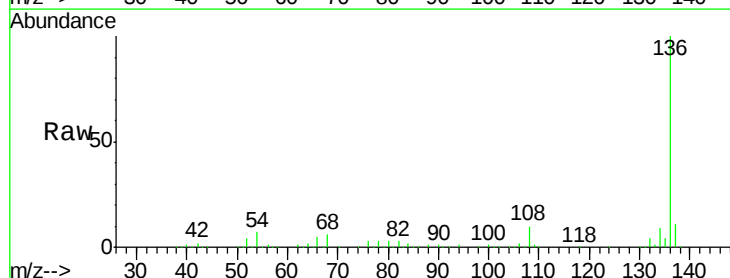
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 6.6 6.6 9.8

68 5.8 5.0 7.4

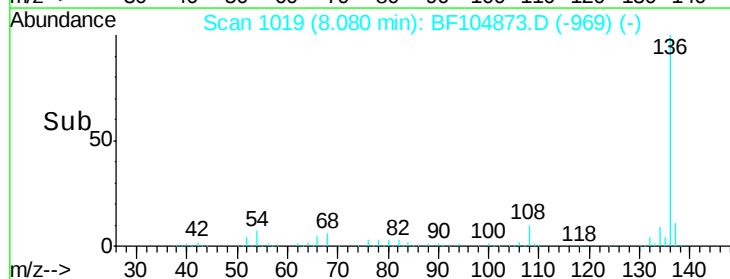
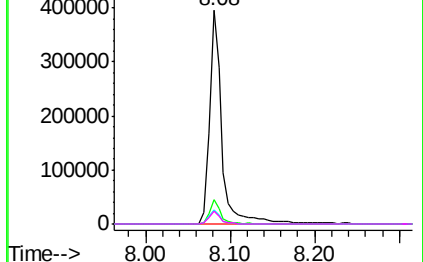


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

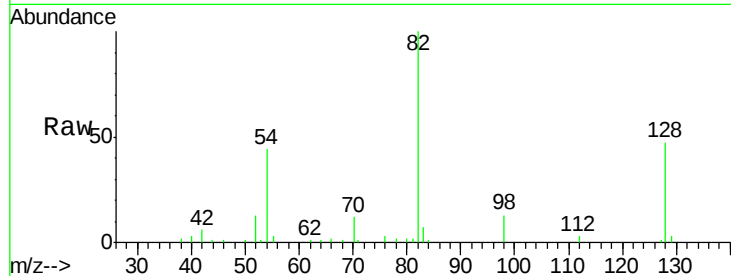




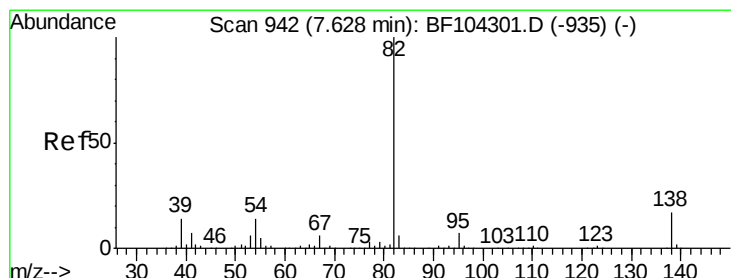
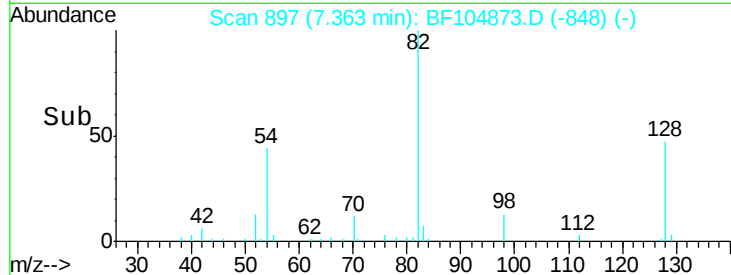
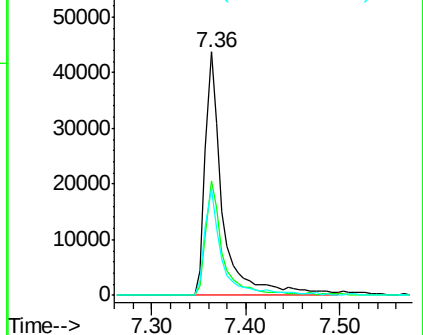
#23
 Nitrobenzene-d5
 Concen: 9.219 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	57368
Ion Ratio	100	Lower	Upper
128	47.1	36.1	54.1
54	44.0	41.4	62.2

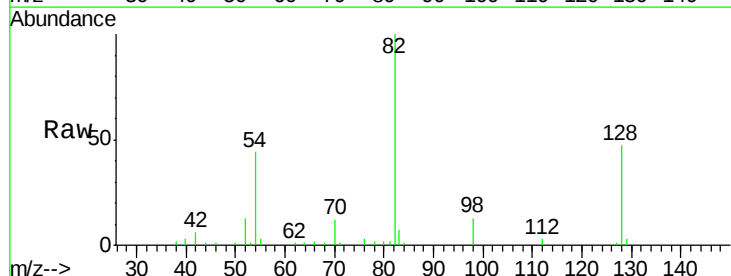


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

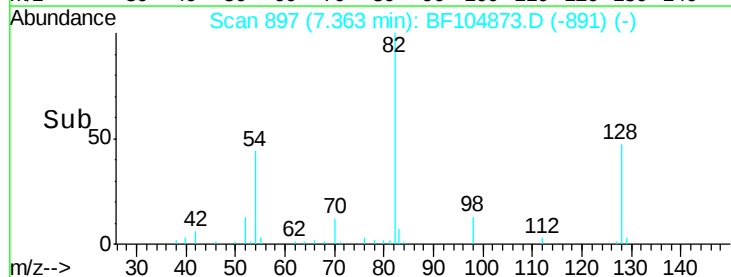
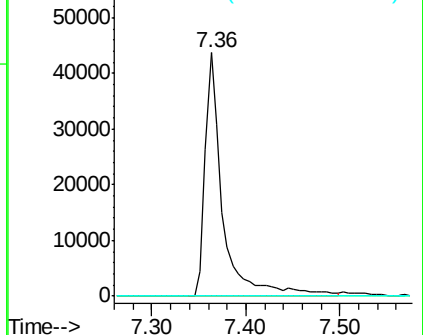


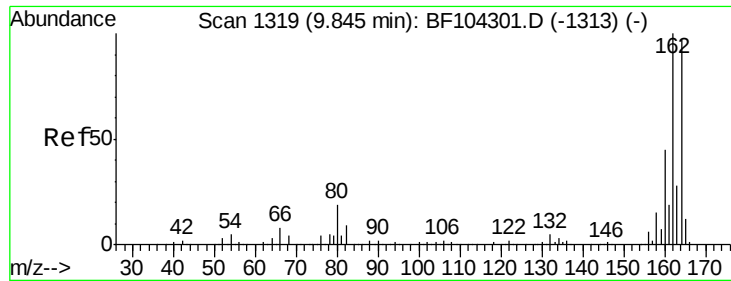
#25
 Isophorone
 Concen: 4.360 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.27 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion	82	Resp	57368
Ion Ratio	100	Lower	Upper
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 95.00 (94.70 to 95.70): BF1
 Ion 138.00 (137.70 to 138.70): BF1

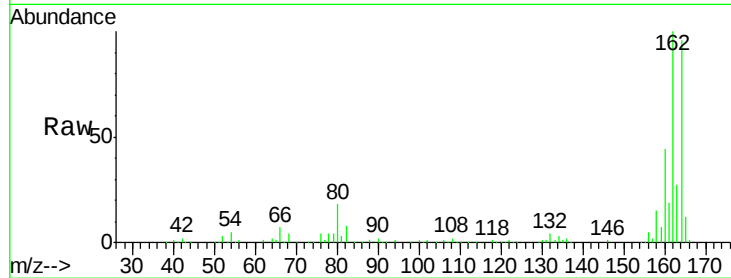




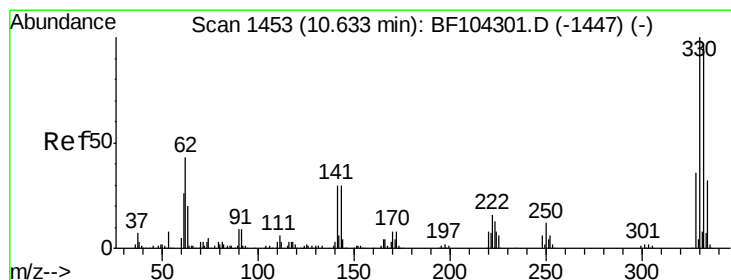
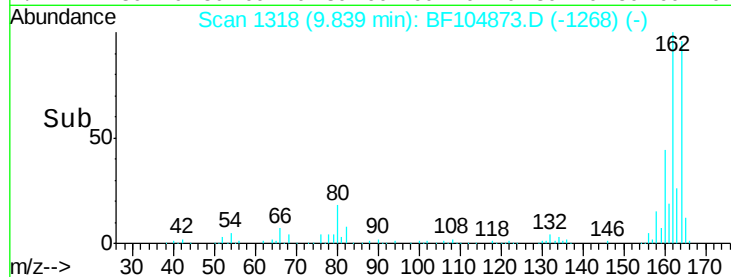
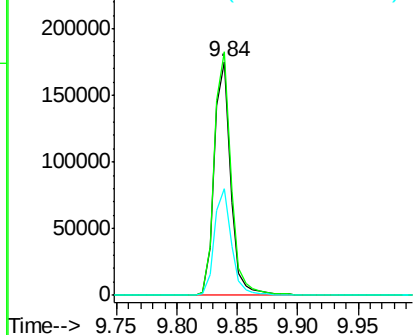
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 164158
 Ion Ratio Lower Upper
 164 100
 162 104.1 86.1 129.1
 160 45.9 38.3 57.5

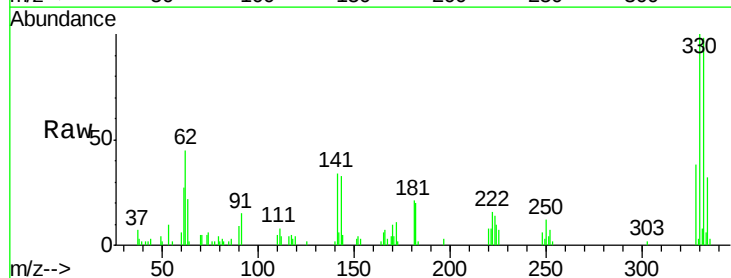


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

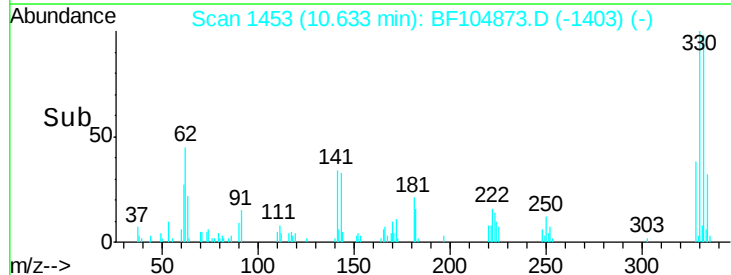
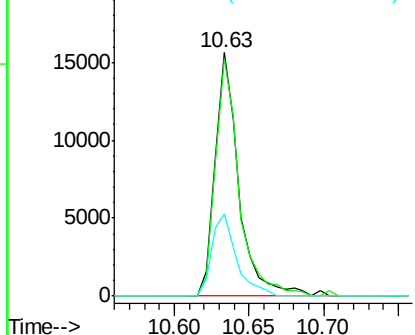


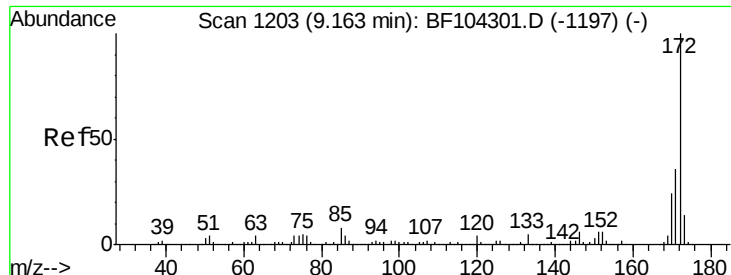
#41
 2,4,6-Tribromophenol
 Concen: 10.224 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion:330 Resp: 17410
 Ion Ratio Lower Upper
 330 100
 332 97.3 77.0 115.6
 141 34.7 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

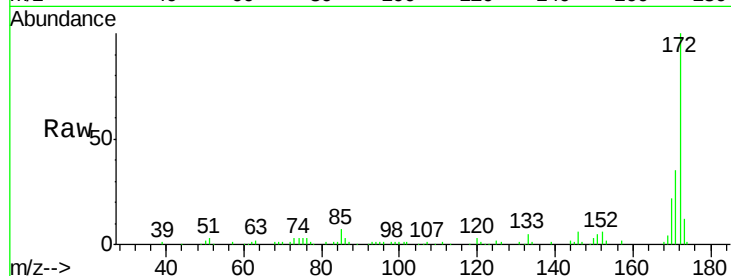




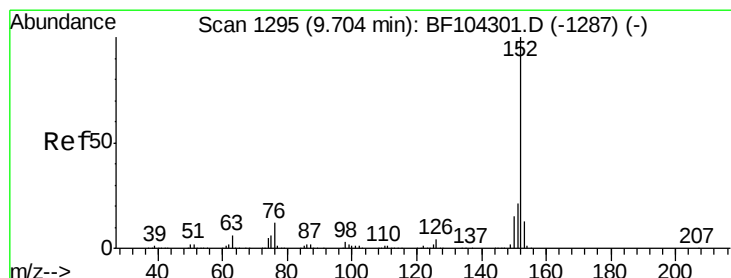
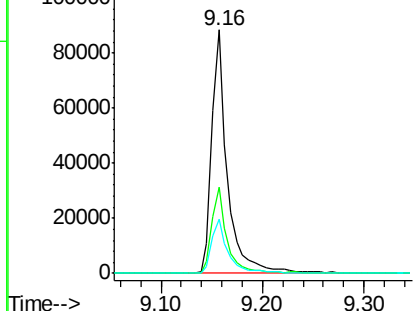
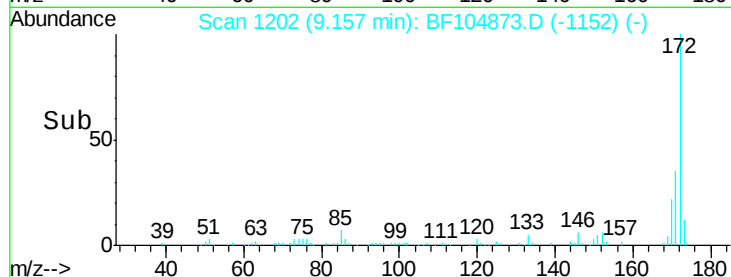
#44
2-Fluorobiphenyl
Concen: 9.130 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 94876
Ion Ratio Lower Upper
172 100
171 35.3 29.7 44.5
170 22.2 19.6 29.4

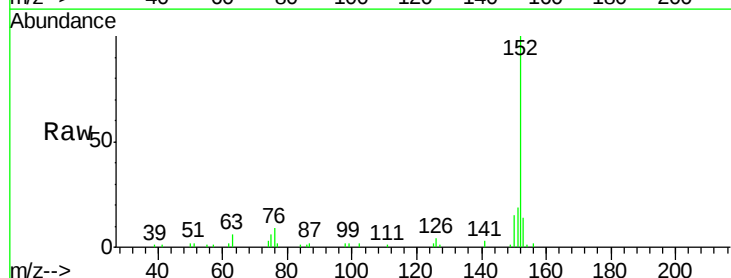


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

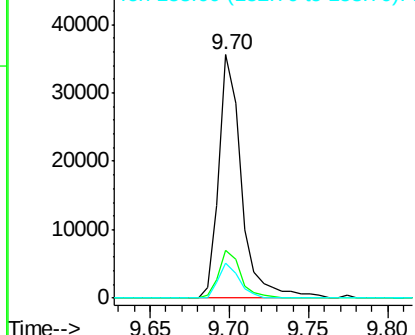
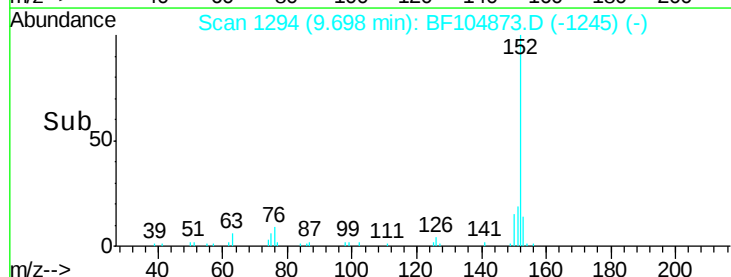


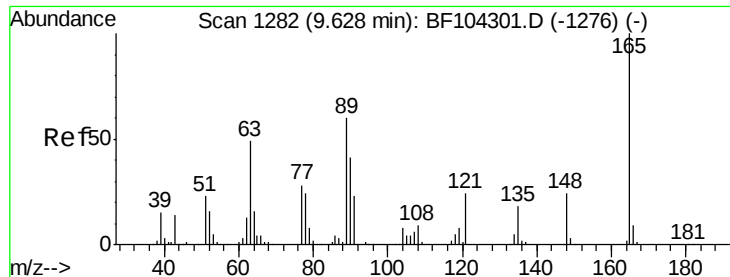
#48
Acenaphthylene
Concen: 2.074 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion:152 Resp: 35447
Ion Ratio Lower Upper
152 100
151 19.5 16.3 24.5
153 14.2 10.7 16.1



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

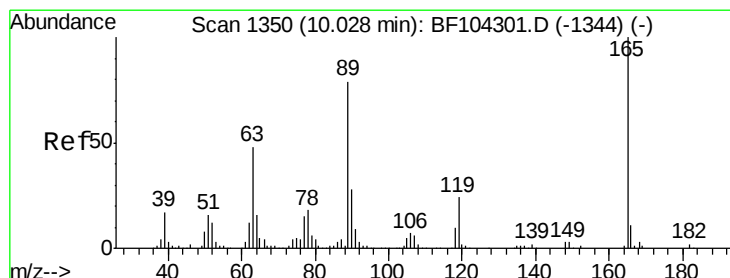
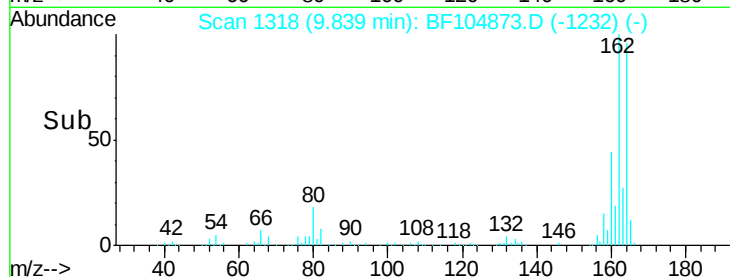
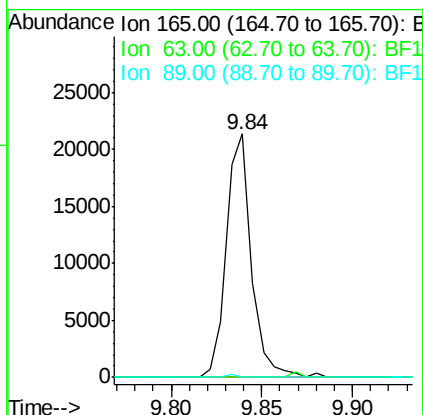
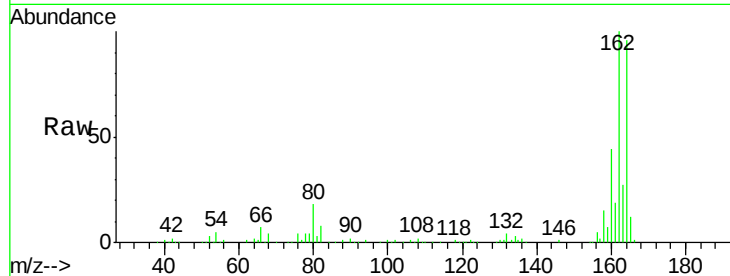




#50
 2,6-Dinitrotoluene
 Concen: 8.594 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.21 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

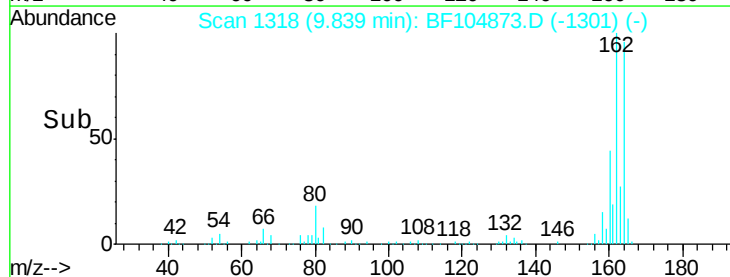
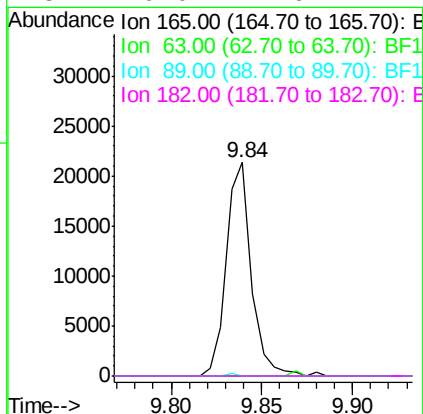
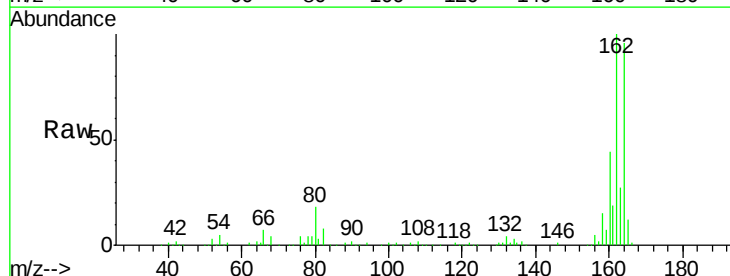
Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	0.0	44.0	66.0#



#56
 2,4-Dinitrotoluene
 Concen: 6.552 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.20 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	0.0	57.8	86.6#
182	0.0	1.6	2.4#

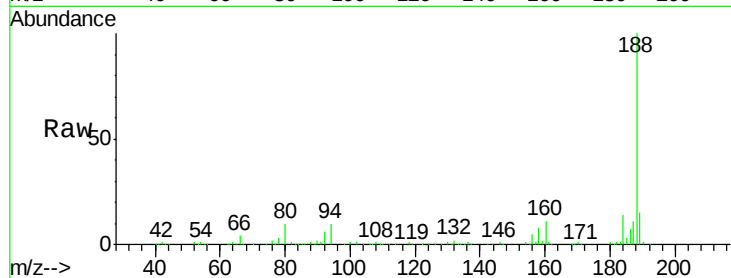




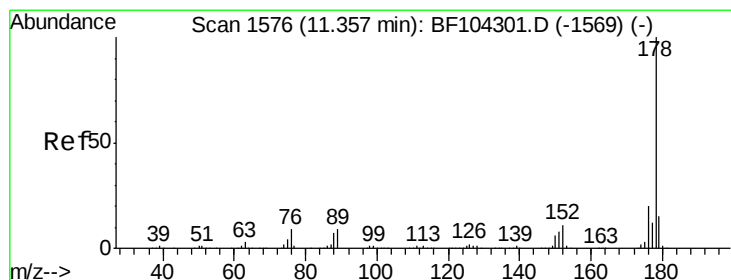
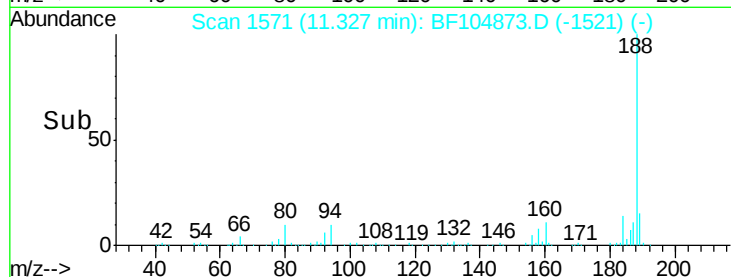
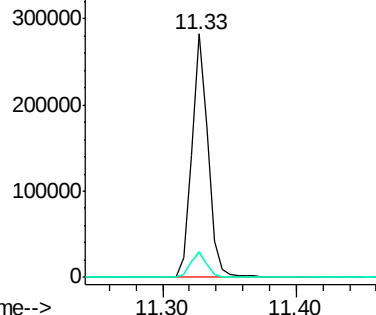
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 243281
Ion Ratio Lower Upper
188 100
94 10.1 8.5 12.7
80 10.5 9.2 13.8

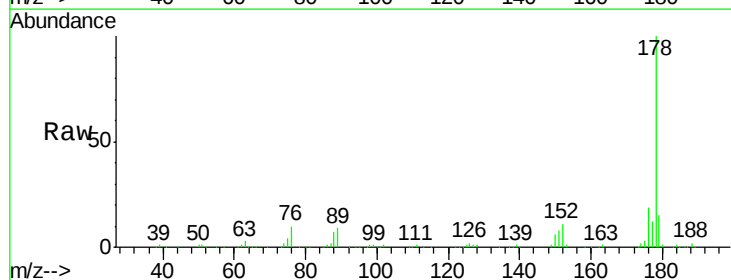


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

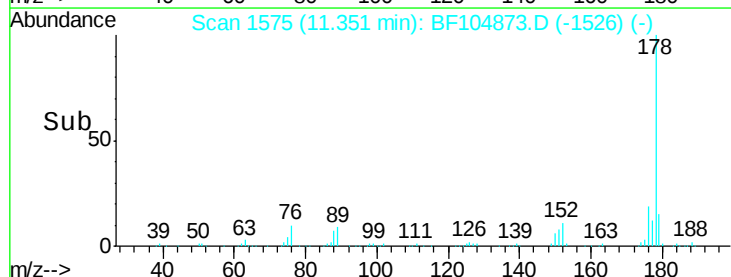
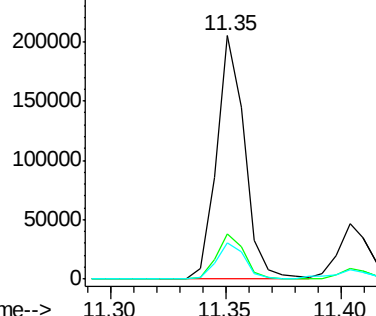


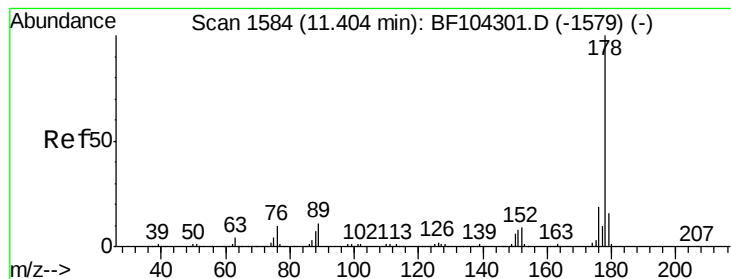
#70
Phenanthrene
Concen: 12.860 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion:178 Resp: 174231
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 14.9 13.0 19.6



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





#71

Anthracene

Concen: 3.550 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

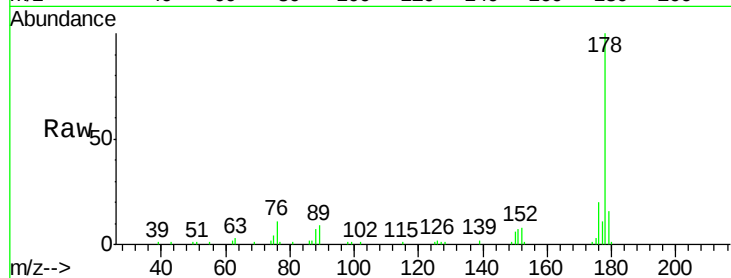
Instrument :

BNA_F

ClientSampled :

Tot Ion:178 Resp: 48890

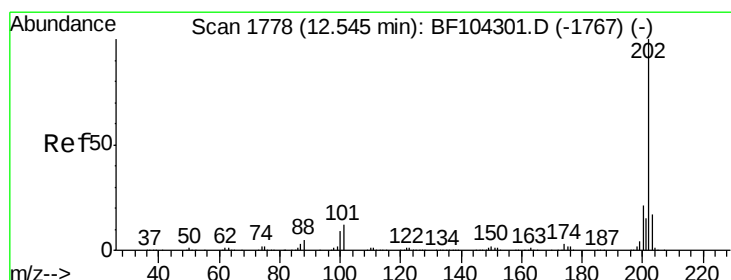
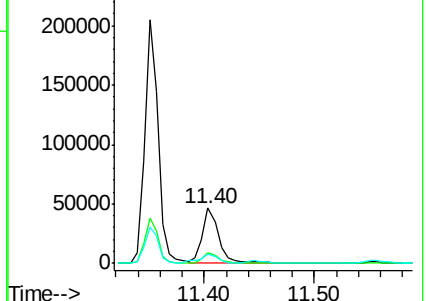
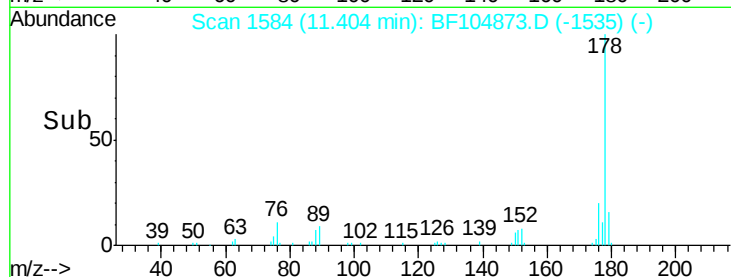
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	16.0	12.6	19.0



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



#74

Fluoranthene

Concen: 19.283 ng

RT: 12.54 min Scan# 1778

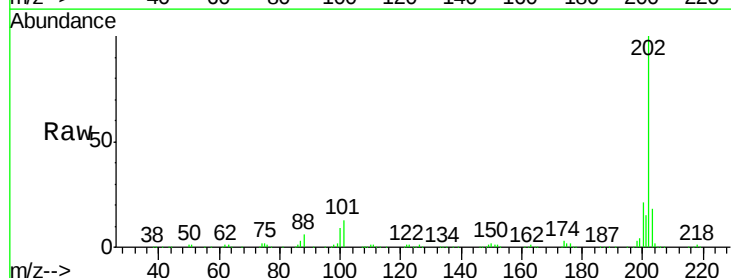
Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Tgt Ion:202 Resp: 272950

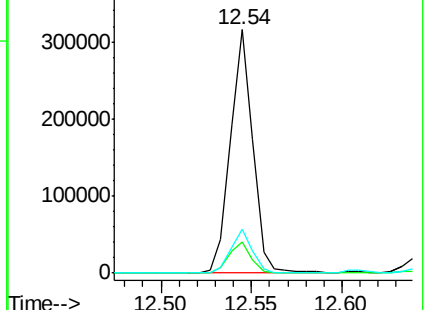
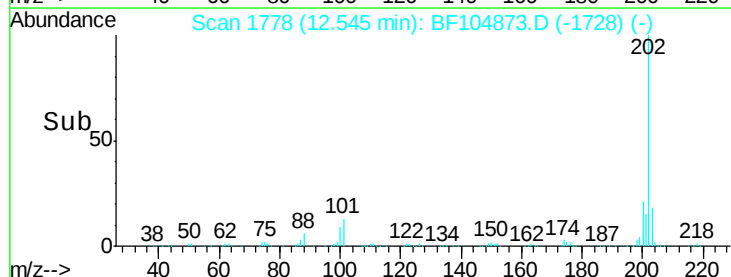
Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	34.1
203	18.0	0.0	38.1

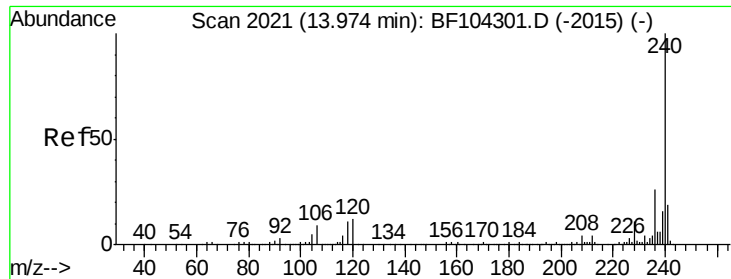


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

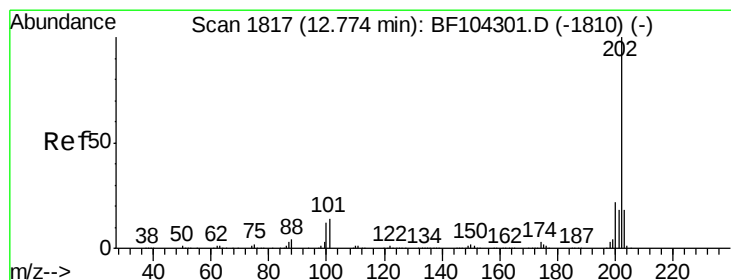
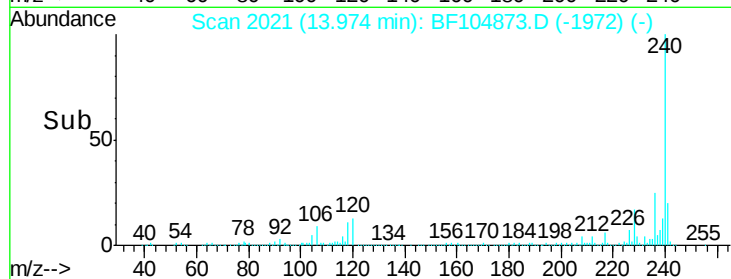
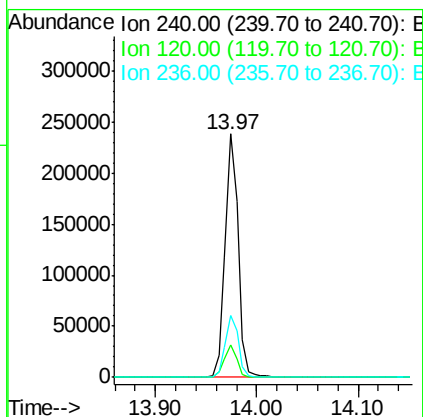
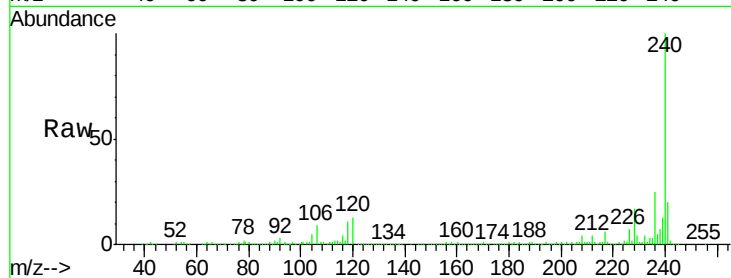




#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

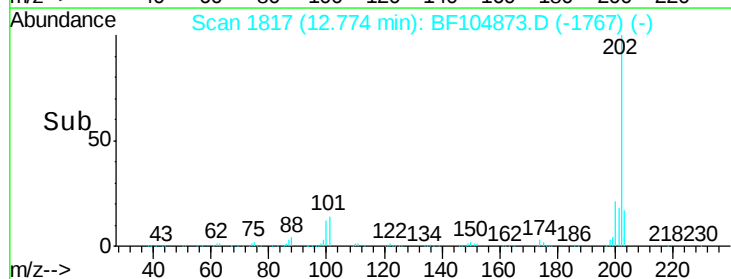
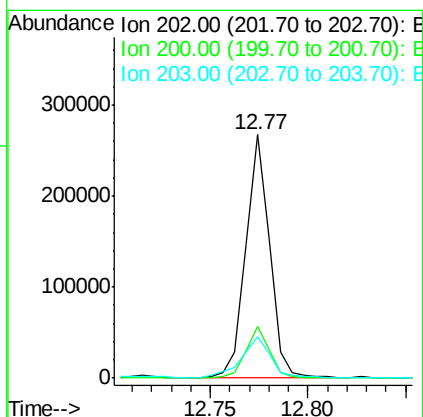
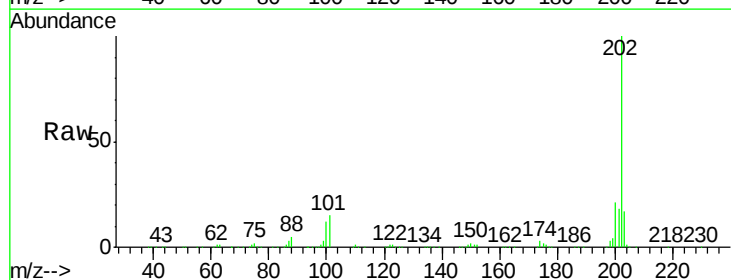
Instrument :
BNA_F
ClientSampleId :

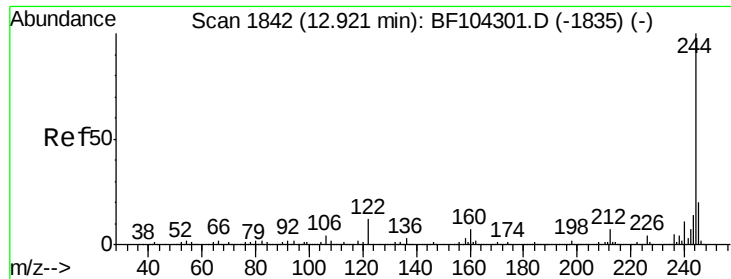
Tot Ion:240 Resp: 212769
Ion Ratio Lower Upper
240 100
120 13.2 9.5 14.3
236 25.5 20.7 31.1



#77
Pyrene
Concen: 14.412 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion:202 Resp: 227297
Ion Ratio Lower Upper
202 100
200 21.2 17.4 26.2
203 17.1 14.3 21.5

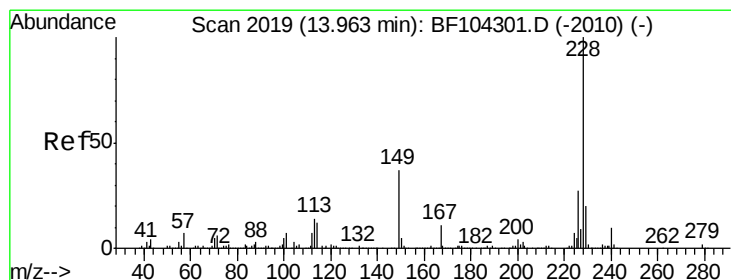
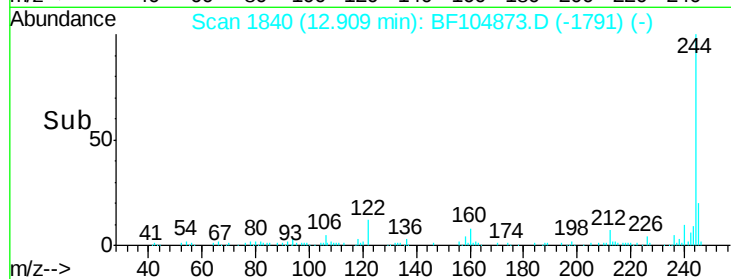
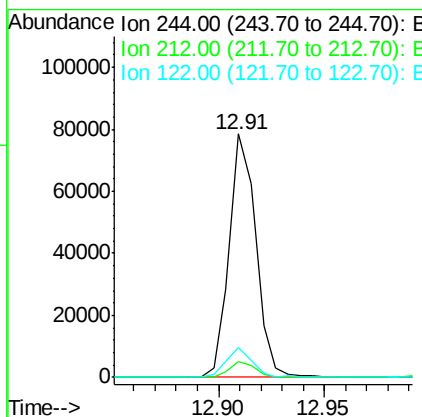
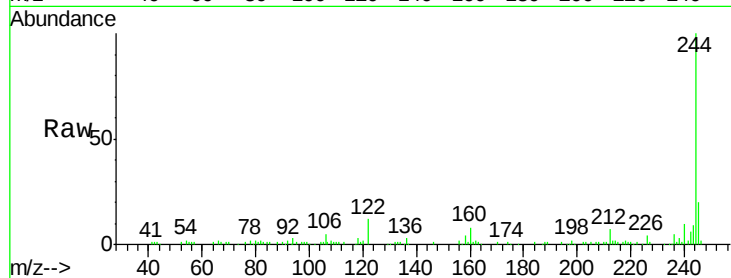




#78
 Terphenyl-d14
 Concen: 7.321 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

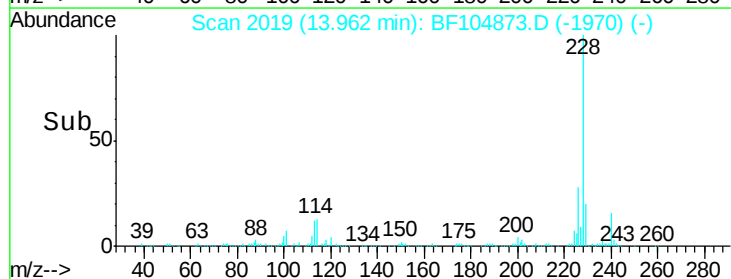
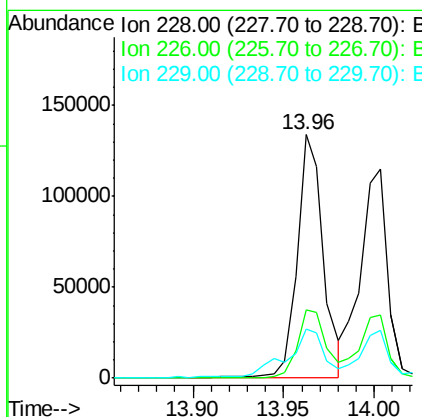
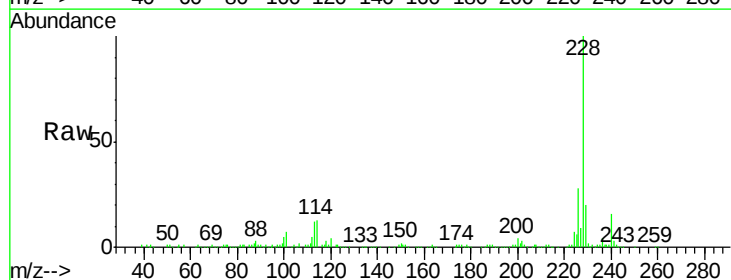
Instrument :
 BNA_F
 ClientSampled :

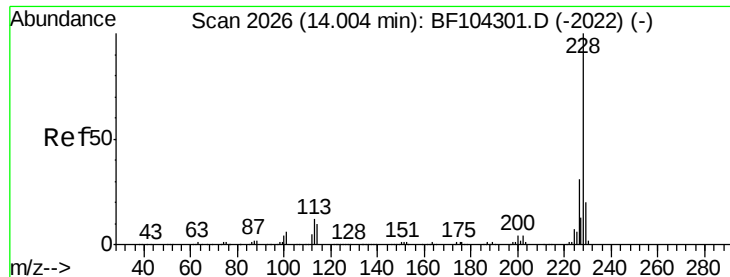
Tot Ion:244 Resp: 68321
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.0
 122 12.5 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 10.713 ng
 RT: 13.96 min Scan# 2019
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion:228 Resp: 136175
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 20.2 15.8 23.6





#82

Chrysene

Concen: 9.305 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Instrument :

BNA_F

ClientSampleId :

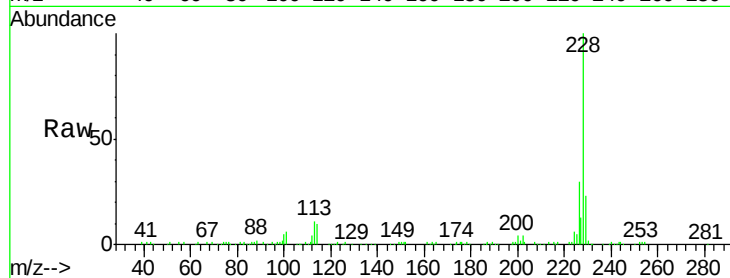
Tot Ion:228 Resp: 121483

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

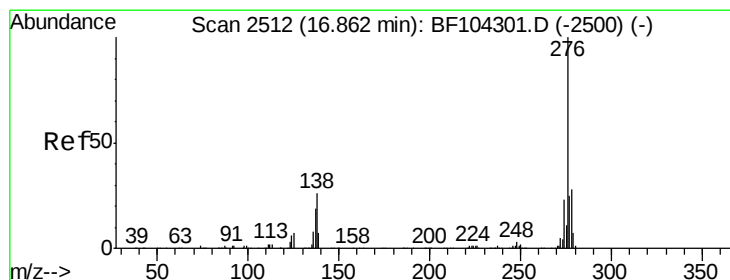
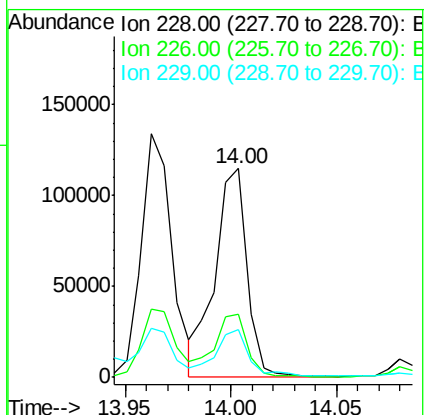
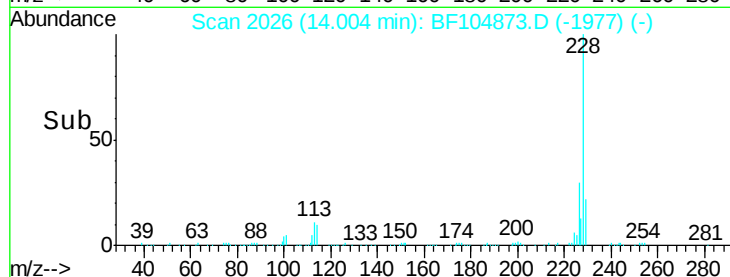
229 23.1 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.302 ng

RT: 16.89 min Scan# 2517

Delta R.T. -0.04 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

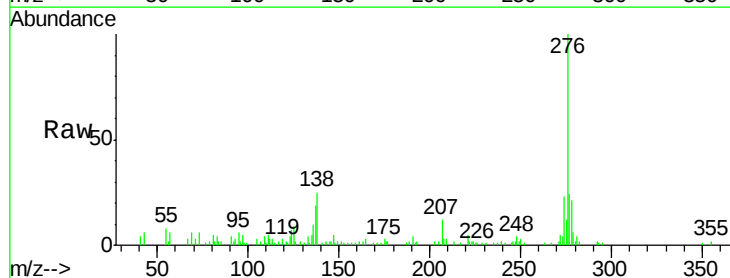
Tgt Ion:276 Resp: 47717

Ion Ratio Lower Upper

276 100

138 24.9 25.0 37.6#

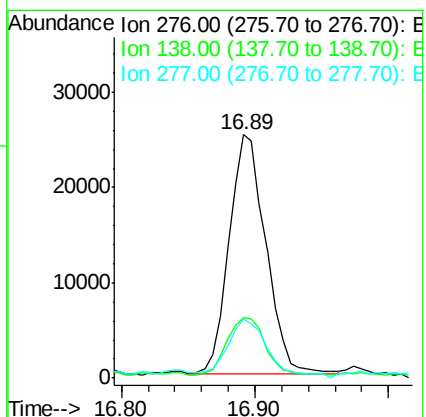
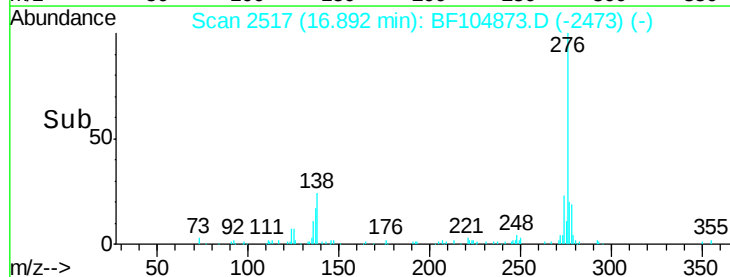
277 27.8 20.1 30.1

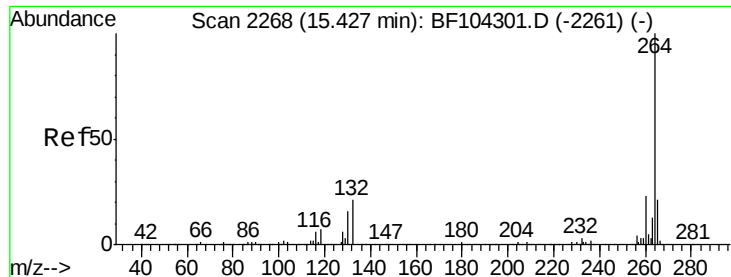


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

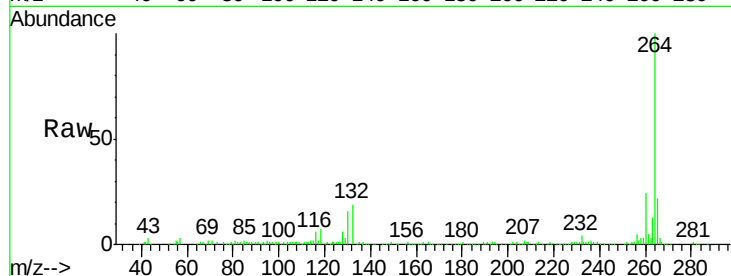




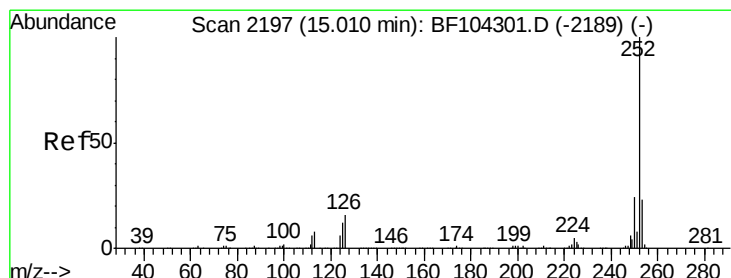
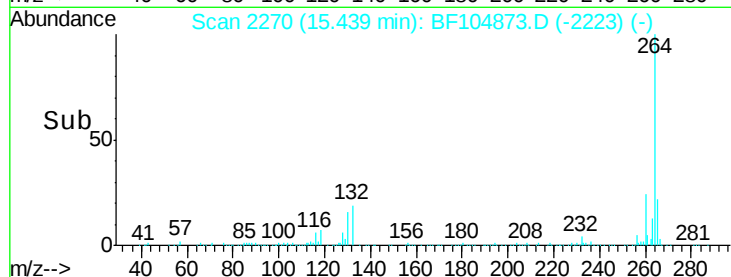
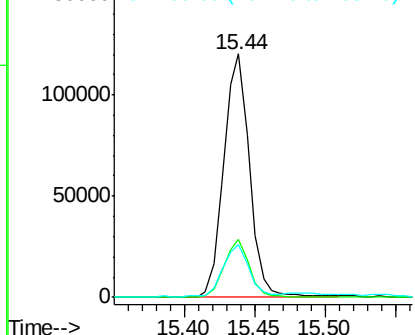
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 153145
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 21.6 17.5 26.3

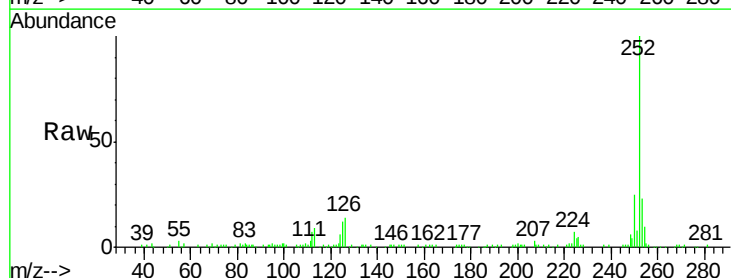


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

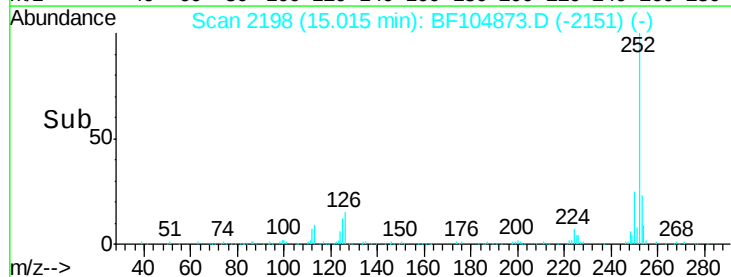
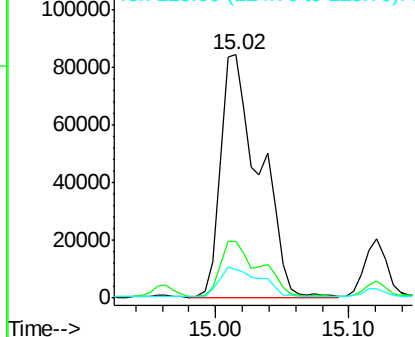


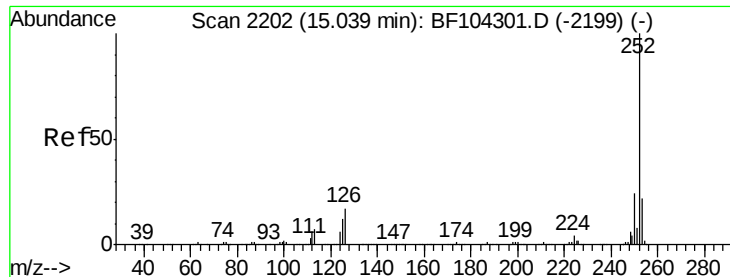
#87
Benzo(b)fluoranthene
Concen: 17.652 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.02 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion:252 Resp: 170741
Ion Ratio Lower Upper
252 100
253 23.2 17.0 25.6
125 11.9 9.0 13.6



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





#88

Benzo(k)fluoranthene

Concen: 18.698 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.05 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Instrument :

BNA_F

ClientSampled :

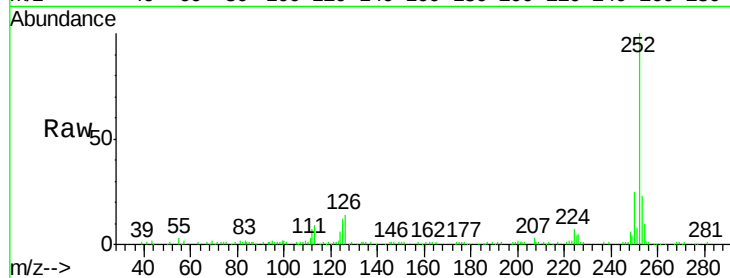
Tot Ion:252 Resp: 170741

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

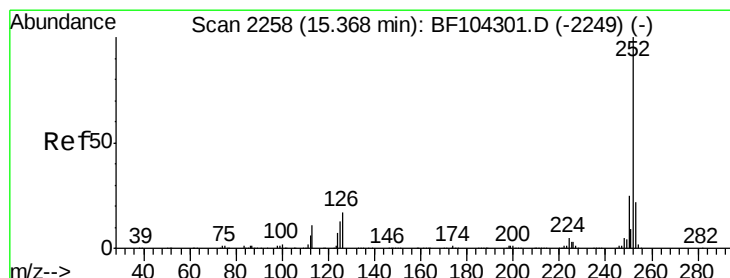
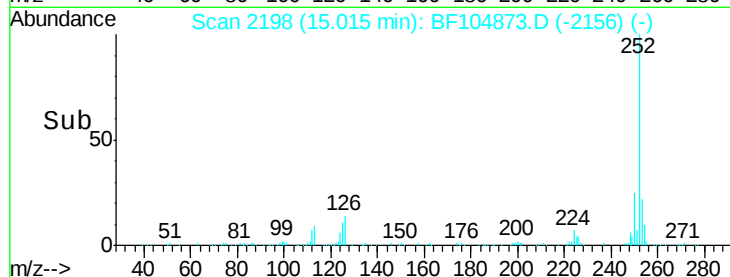
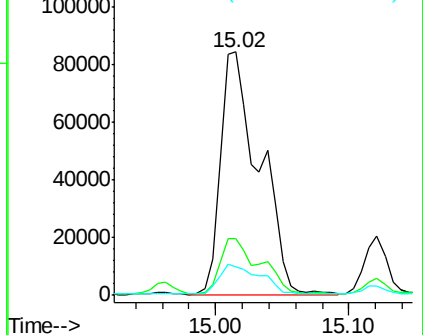
125 11.9 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 9.505 ng

RT: 15.37 min Scan# 2259

Delta R.T. -0.03 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

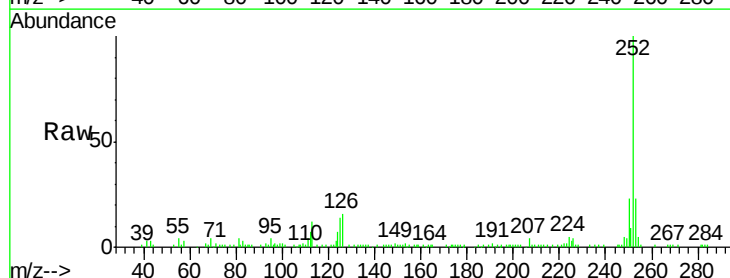
Tgt Ion:252 Resp: 82262

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

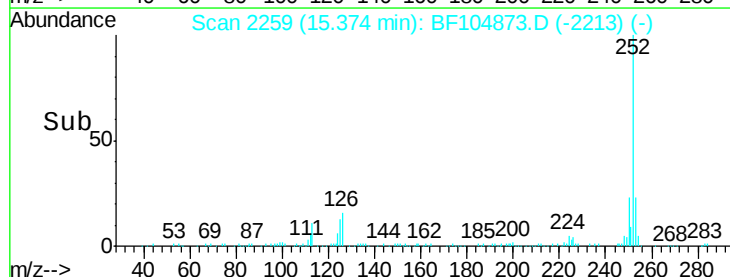
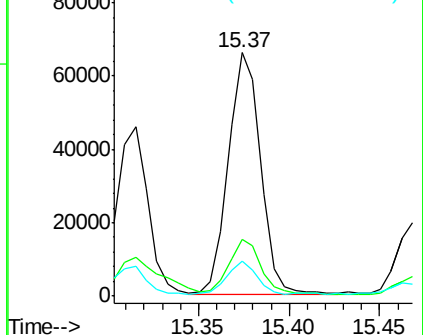
125 14.1 9.8 14.6

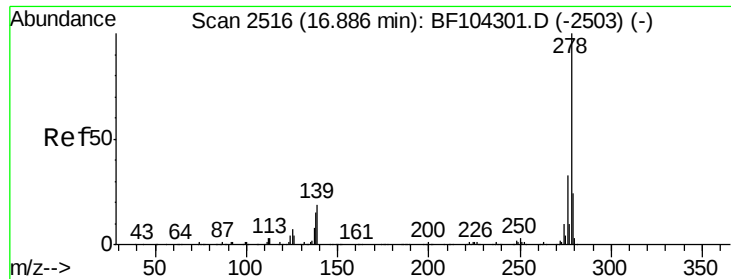


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.107 ng

RT: 16.90 min Scan# 2519

Delta R.T. -0.05 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Instrument :

BNA_F

ClientSampleId :

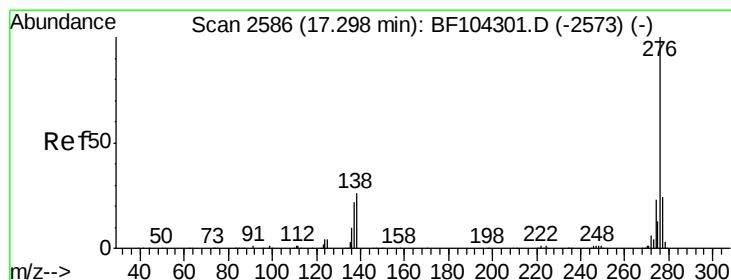
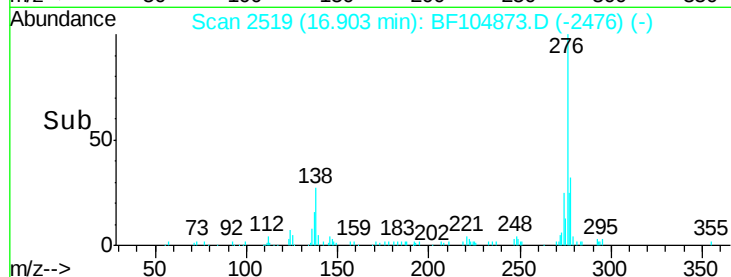
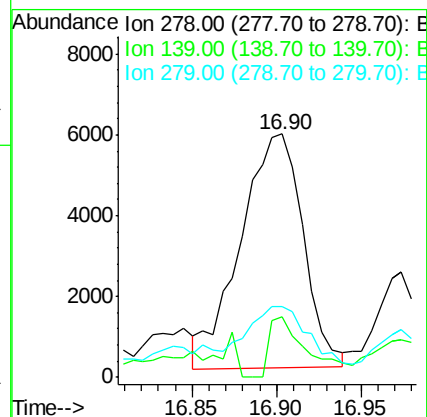
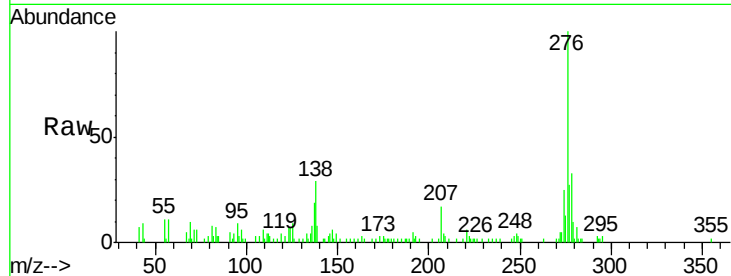
Tot Ion:278 Resp: 14979

Ion Ratio Lower Upper

278 100

139 24.9 15.9 23.9#

279 29.0 19.0 28.4#



#91

Benzo(g,h,i)perylene

Concen: 6.671 ng

RT: 17.34 min Scan# 2593

Delta R.T. -0.04 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Tgt Ion:276 Resp: 45941

Ion Ratio Lower Upper

276 100

277 23.1 17.9 26.9

138 22.5 21.8 32.8

