

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051819\
 Data File : BF114426.D
 Acq On : 19 May 2019 8:01
 Operator : JU/SJ
 Sample : K2894-03RX
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 20 04:17:10 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

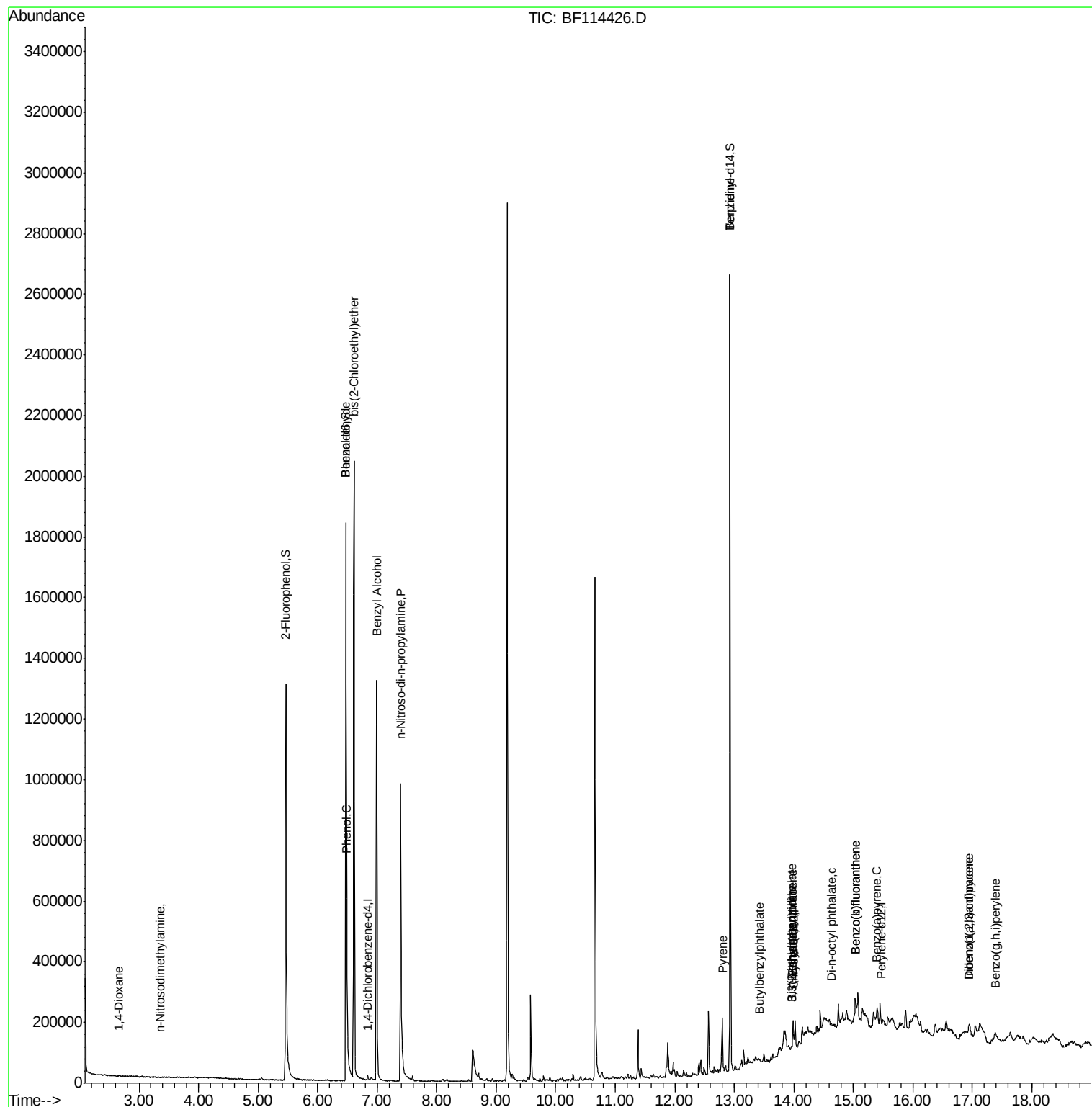
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	2739	20.00	ng	-0.01
21) Naphthalene-d8	0.00	136	0	0.00	ng	-8.13
39) Acenaphthene-d10	0.00	164	0	0.00	ng	-9.89
64) Phenanthrene-d10	0.00	188	0	0.00	ng	-11.37
76) Chrysene-d12	14.00	240	244	20.00	ng	-0.02
87) Perylene-d12	15.47	264	106	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	451594	2653.28	ng	-0.02
7) Phenol-d6	6.47	99	748318	3717.36	ng	-0.02
23) Nitrobenzene-d5	7.39	82	427886	0.00	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	215485	0.00	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	949778	0.00	ng	-0.02
79) Terphenyl-d14	12.93	244	924068	78069.81	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	2.65	88	878	9.385	ng	# 16
4) n-Nitrosodimethylamine	3.36	42	346	2.784	ng	# 1
9) Benzaldehyde	6.47	77	1431	10.154	ng	# 1
10) Phenol	6.49	94	5505	23.247	ng	# 6
11) bis(2-Chloroethyl)ether	6.61	93	630	3.504	ng	# 1
15) Benzyl Alcohol	6.99	79	5631	35.865	ng	# 52
19) n-Nitroso-di-n-propylamine	7.39	70	52647	412.607	ng	# 77
77) Benzidine	12.93	184	11016	1005.773	ng	# 96
78) Pyrene	12.80	202	73520	3745.553	ng	# 95
80) Butylbenzylphthalate	13.43	149	236	28.565	ng	# 61
81) Benzo(a)anthracene	13.99	228	39775	2520.309	ng	# 99
82) 3,3'-Dichlorobenzidine	13.96	252	108	17.641	ng	# 25
83) Chrysene	13.99	228	39775	2571.003	ng	# 96
84) Bis(2-ethylhexyl)phthalate	13.96	149	2357	218.131	ng	# 89
85) Di-n-octyl phthalate	14.64	149	752	42.931	ng	# 1
86) Indeno(1,2,3-cd)pyrene	16.94	276	14903	1089.986	ng	# 96
88) Benzo(b)fluoranthene	15.03	252	51348	7561.221	ng	# 86
89) Benzo(k)fluoranthene	15.03	252	51348	8231.240	ng	# 87
90) Benzo(a)pyrene	15.40	252	27544	4608.636	ng	# 89
91) Dibenzo(a,h)anthracene	16.94	278	5389	1085.116	ng	# 42
92) Benzo(g,h,i)perylene	17.39	276	12452	2501.926	ng	# 86

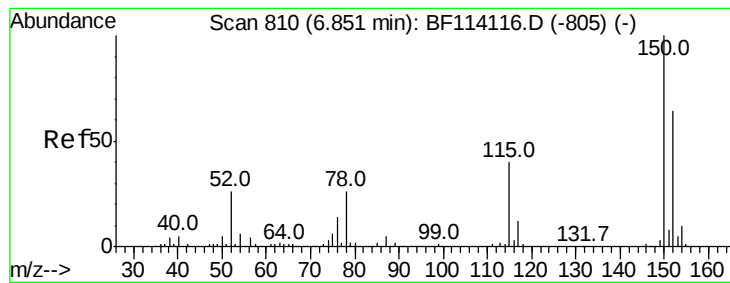
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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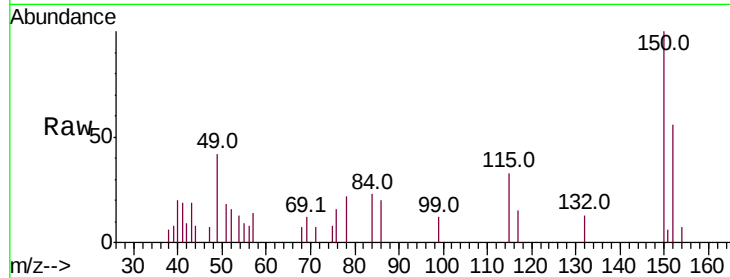


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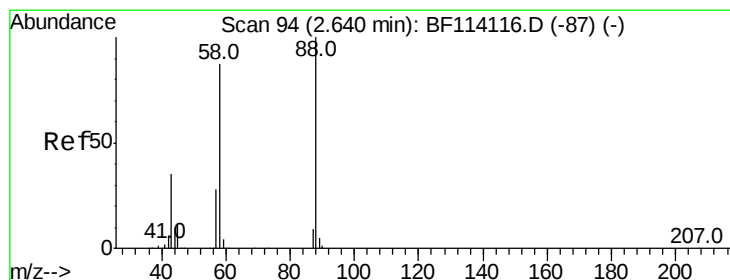
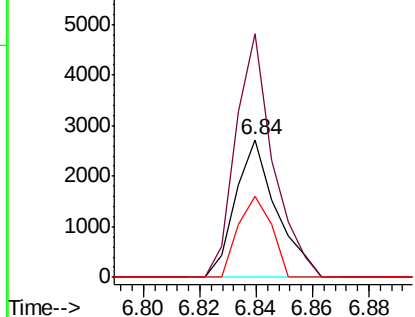
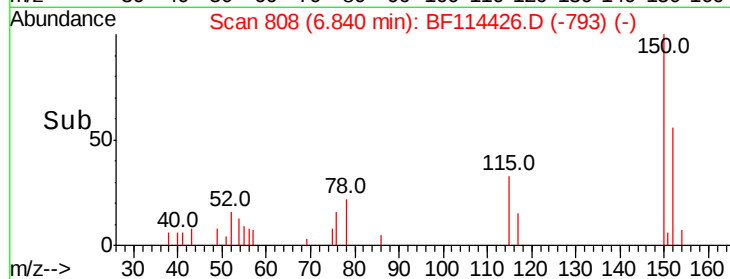
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF114426.D
Acq: 19 May 2019 8:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 2739
Ion Ratio Lower Upper
152 100
150 177.3 124.3 186.5
115 59.3 49.1 73.7



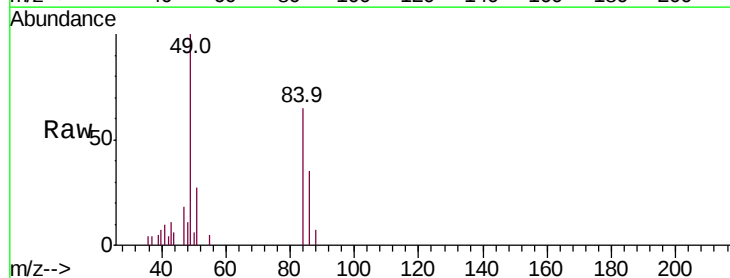
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



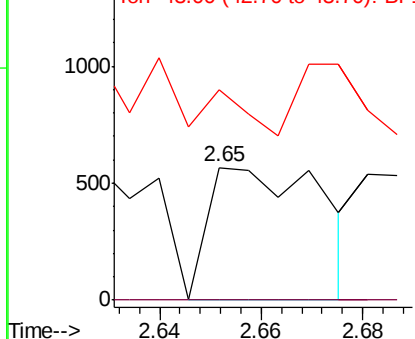
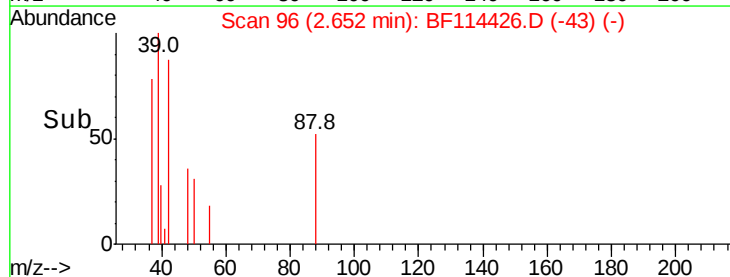
#2

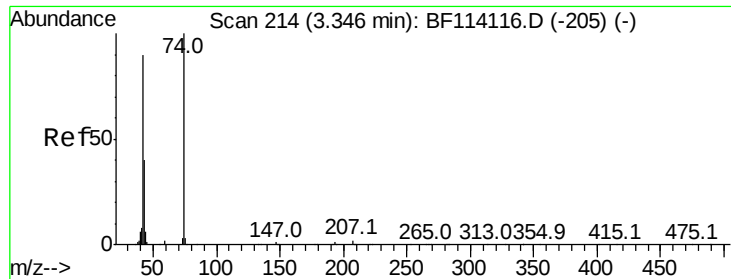
1,4-Dioxane
Concen: 9.385 ng
RT: 2.65 min Scan# 96
Delta R.T. 0.01 min
Lab File: BF114426.D
Acq: 19 May 2019 8:01

Tgt Ion: 88 Resp: 878
Ion Ratio Lower Upper
88 100
58 0.0 68.7 103.1#
43 0.0 28.2 42.2#



Abundance Ion 88.00 (87.70 to 88.70): BF1
Ion 58.00 (57.70 to 58.70): BF1
Ion 43.00 (42.70 to 43.70): BF1



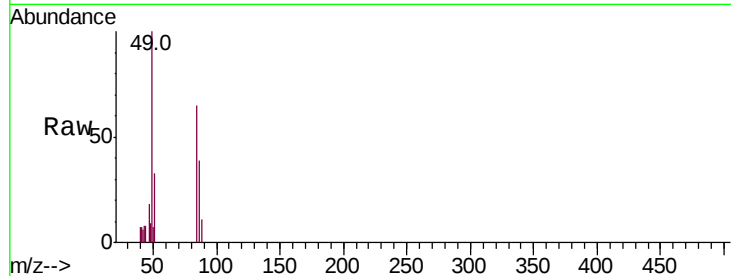


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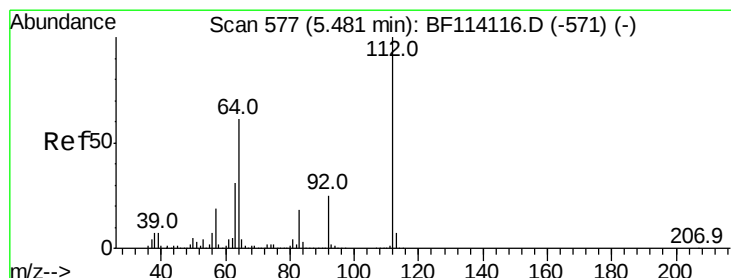
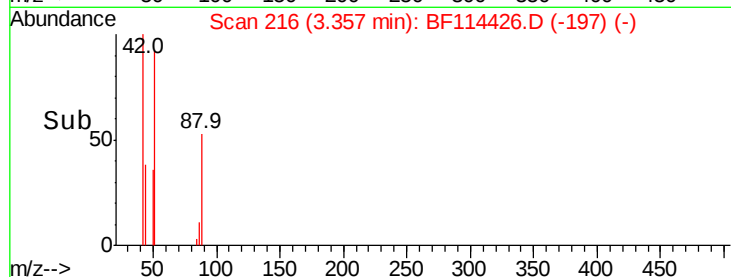
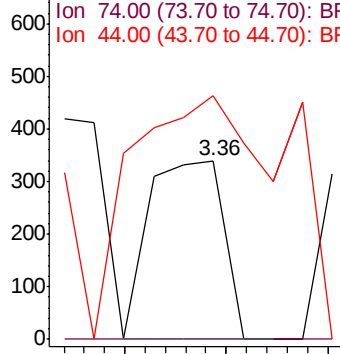
n-Nitrosodimethylamine
 Concen: 2.784 ng
 RT: 3.36 min Scan# 216
 Delta R.T. 0.01 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 42 Resp: 346
 Ion Ratio Lower Upper
 42 100
 74 0.0 88.6 132.8#
 44 136.2 5.5 8.3#



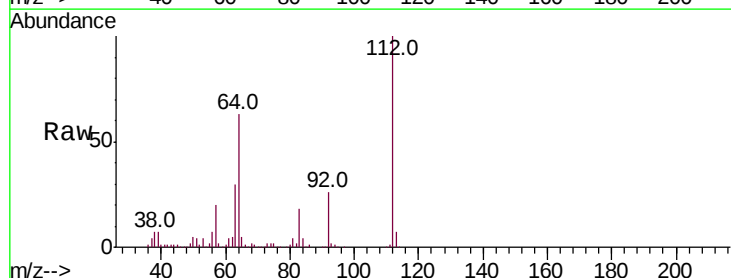
Abundance Ion 42.00 (41.70 to 42.70): BF1
 Ion 74.00 (73.70 to 74.70): BF1
 Ion 44.00 (43.70 to 44.70): BF1



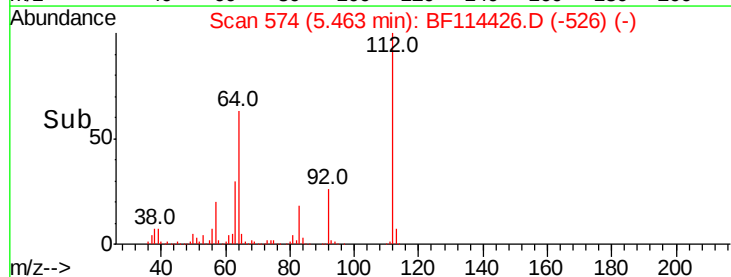
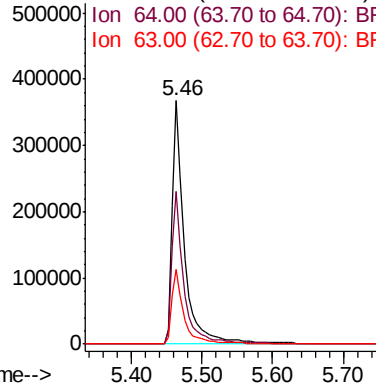
#5

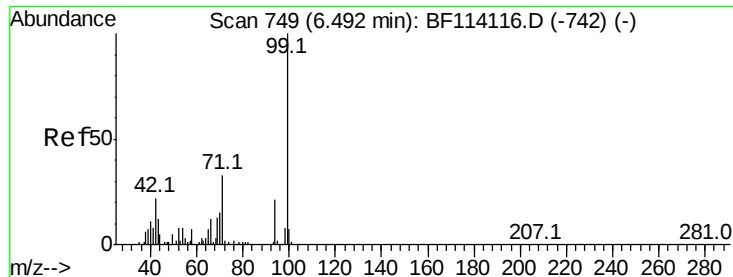
2-Fluorophenol
 Concen: 2653.278 ng
 RT: 5.46 min Scan# 574
 Delta R.T. -0.02 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Tgt Ion: 112 Resp: 451594
 Ion Ratio Lower Upper
 112 100
 64 62.8 49.0 73.6
 63 30.5 24.6 37.0



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: 3717.359 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

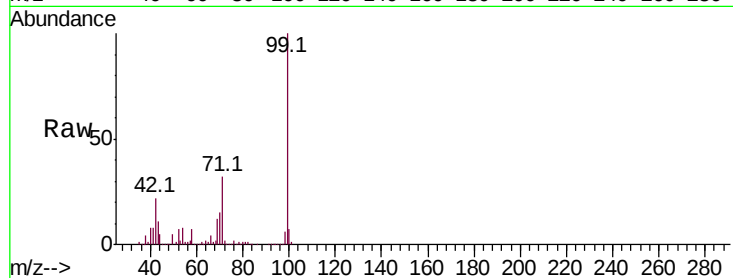
Tot Ion: 99 Resp: 748318

Ion Ratio Lower Upper

99 100

42 21.5 17.9 26.9

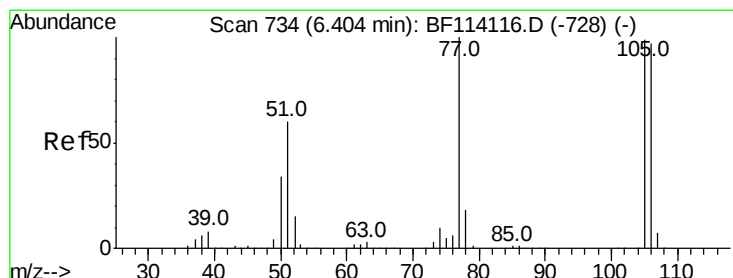
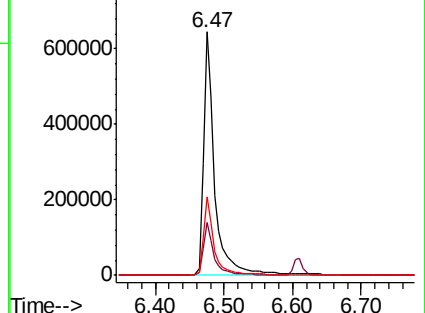
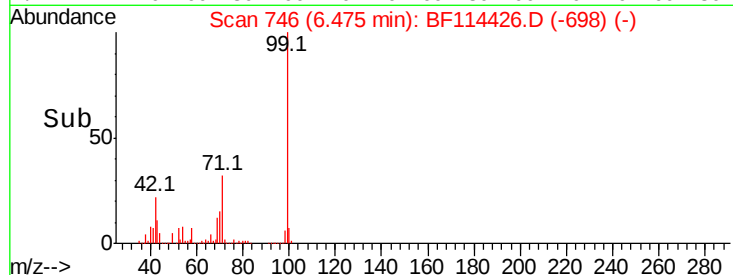
71 32.3 26.2 39.2



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



#9

Benzaldehyde

Concen: 10.154 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.07 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

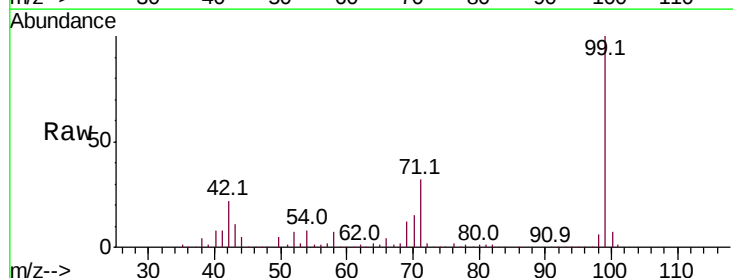
Tgt Ion: 77 Resp: 1431

Ion Ratio Lower Upper

77 100

105 0.0 79.3 119.3#

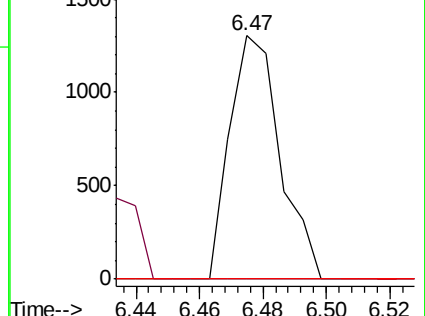
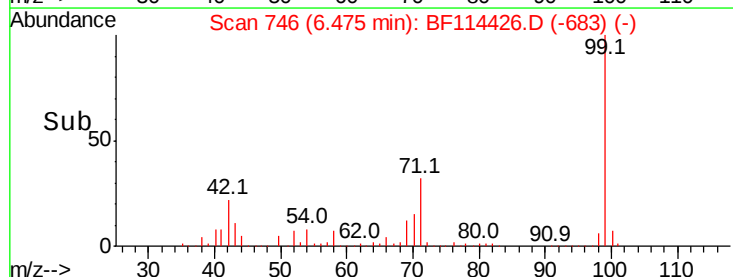
106 0.0 77.0 117.0#

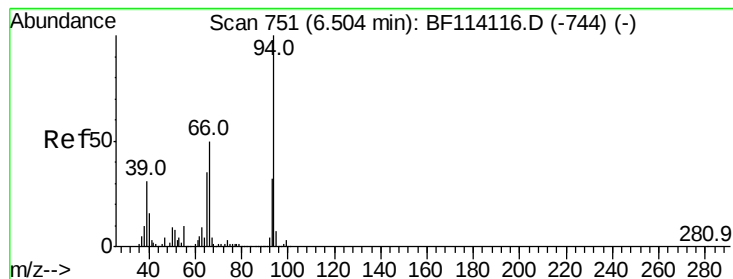


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 23.247 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

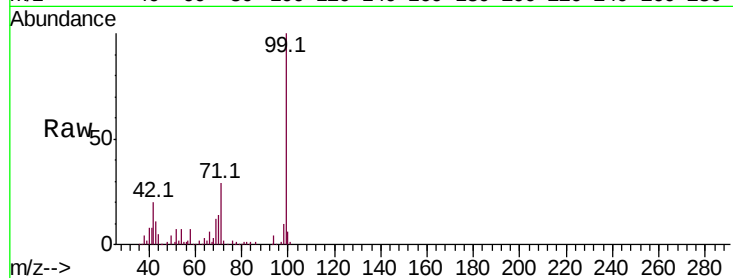
Tot Ion: 94 Resp: 5505

Ion Ratio Lower Upper

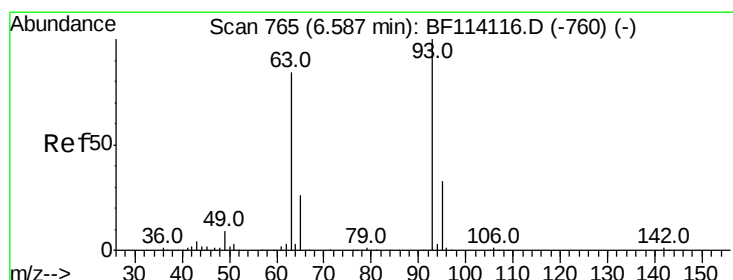
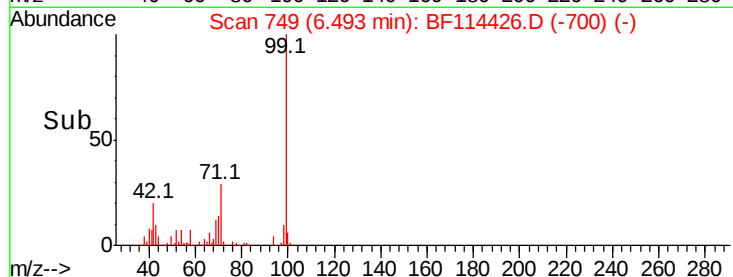
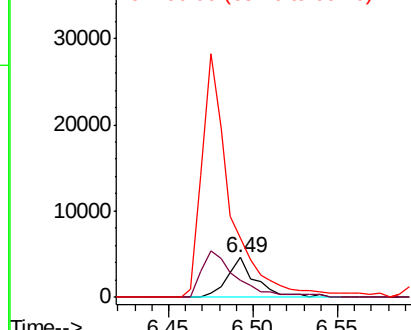
94 100

65 44.7 14.7 54.7

66 151.5 29.6 69.6#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1



#11

bis(2-Chloroethyl)ether

Concen: 3.504 ng

RT: 6.61 min Scan# 769

Delta R.T. 0.02 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

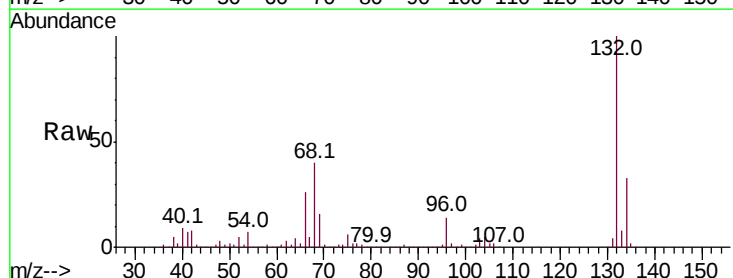
Tgt Ion: 93 Resp: 630

Ion Ratio Lower Upper

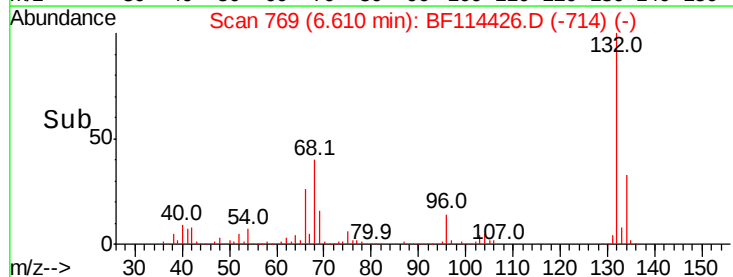
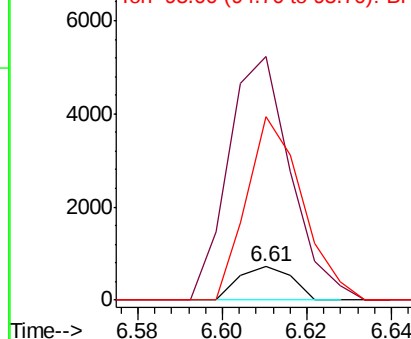
93 100

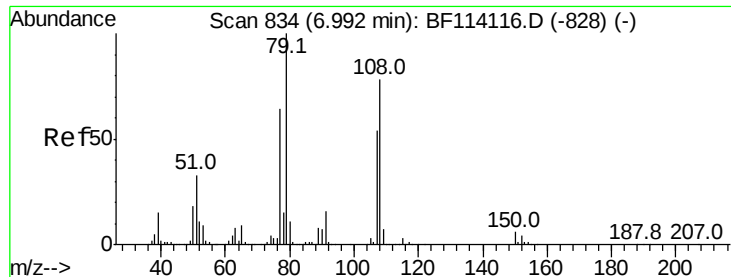
63 734.1 63.6 103.6#

95 551.5 13.1 53.1#



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 63.00 (62.70 to 63.70): BF1
Ion 95.00 (94.70 to 95.70): BF1





#15

Benzyl Alcohol

Concen: 35.865 ng

RT: 6.99 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

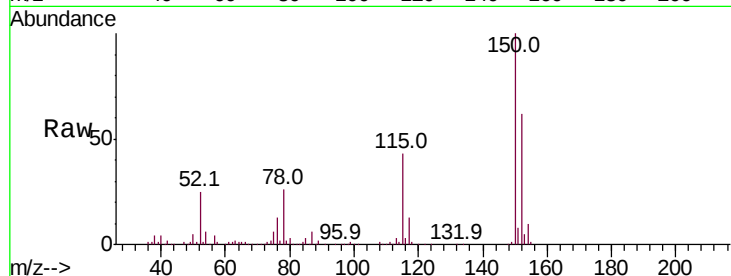
Tot Ion: 79 Resp: 5631

Ion Ratio Lower Upper

79 100

108 27.7 62.1 93.1#

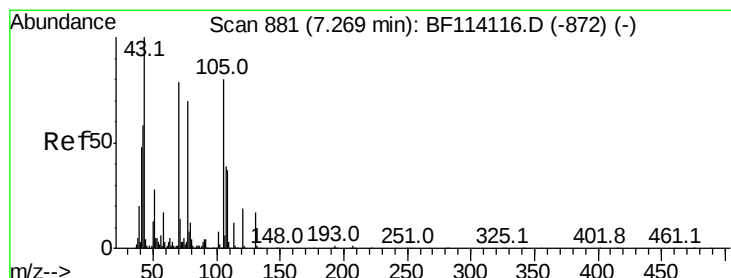
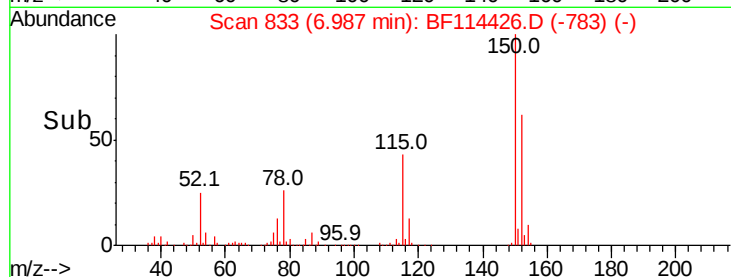
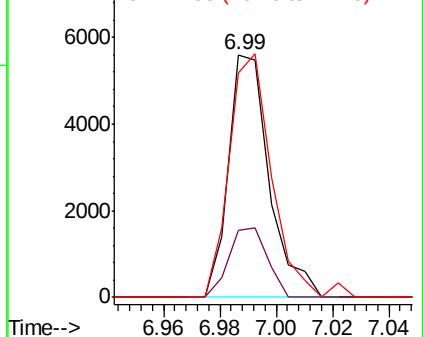
77 92.6 51.0 76.6#



Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 412.607 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.12 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Tgt Ion: 70 Resp: 52647

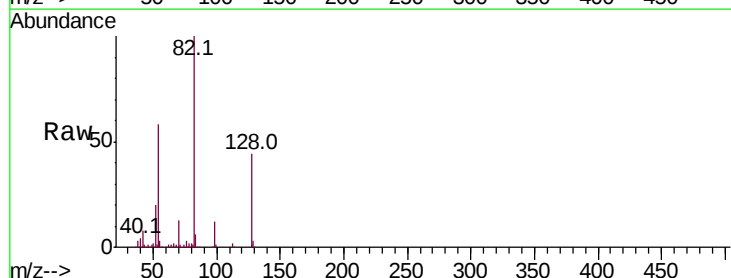
Ion Ratio Lower Upper

70 100

42 59.3 58.6 87.8

101 0.0 7.8 11.8#

130 1.8 17.1 25.7#

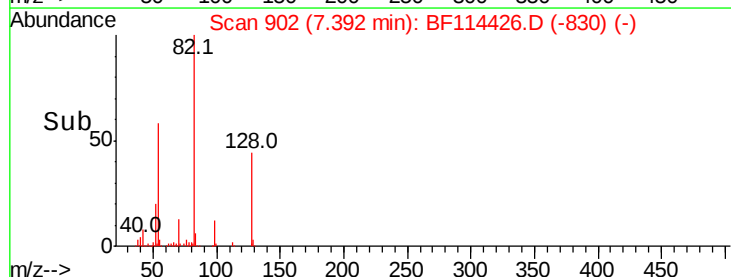
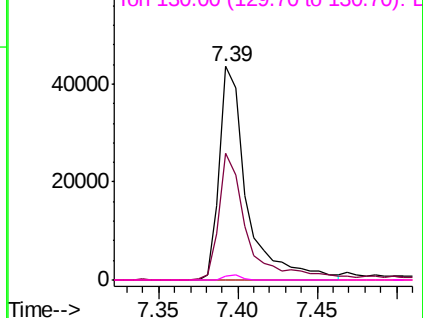


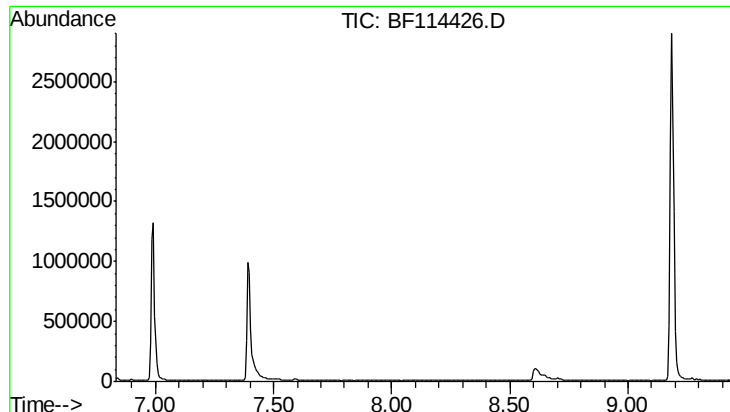
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

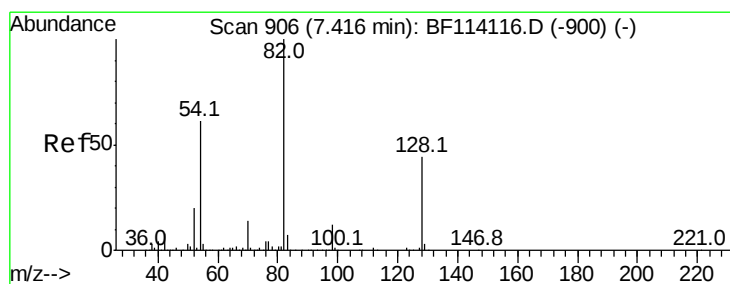
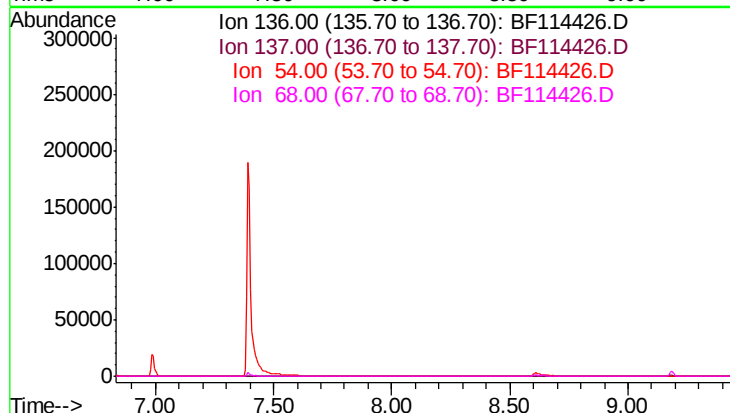




#21
Naphthalene-d8
Concen: 0.000 ng
Expected RT: 8.13 min
Lab File: BF114426.D
Acq: 19 May 2019 8:01

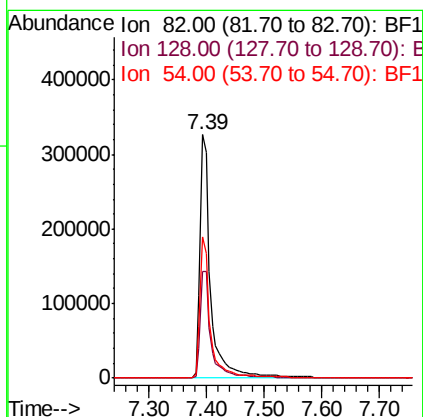
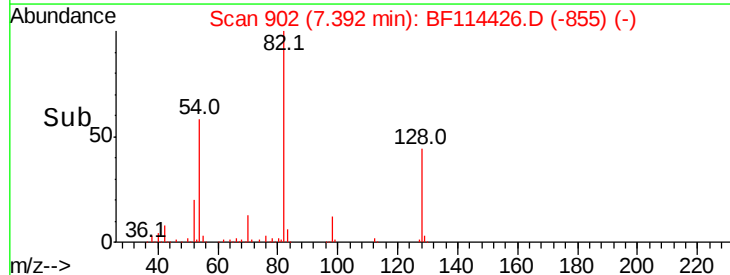
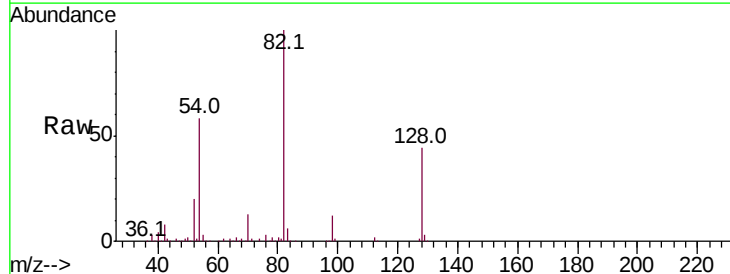
Instrument :
BNA_F
ClientSampleId :

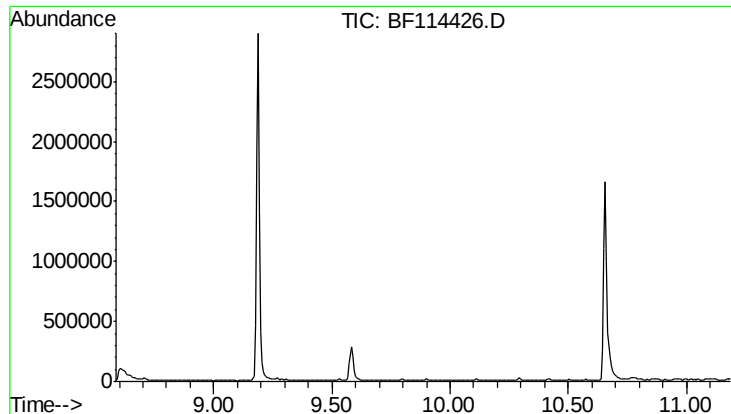
Tot Ion: 136
Sig Exp Ratio
136 100
137 11.0
54 9.8
68 6.4



#23
Nitrobenzene-d5
Concen: 0.000 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.02 min
Lab File: BF114426.D
Acq: 19 May 2019 8:01

Tgt Ion: 82 Resp: 427886
Ion Ratio Lower Upper
82 100
128 43.6 35.5 53.3
54 58.0 48.5 72.7





#39

Acenaphthene-d10

Concen: 0.000 ng

Expected RT: 9.89 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Tot Ion: 164

Sig Exp Ratio

164 100

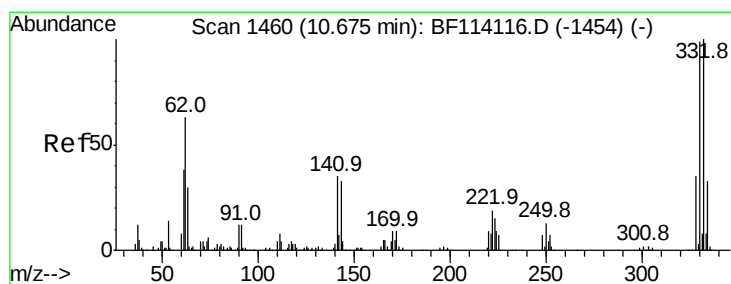
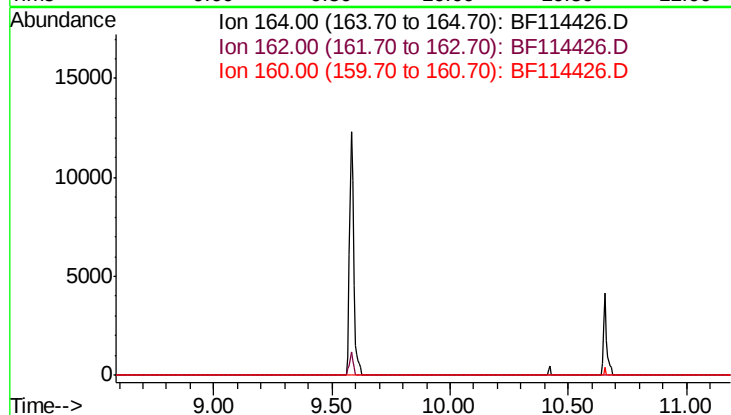
162 100.7

160 45.6

Instrument :

BNA_F

ClientSampleId :



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.02 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

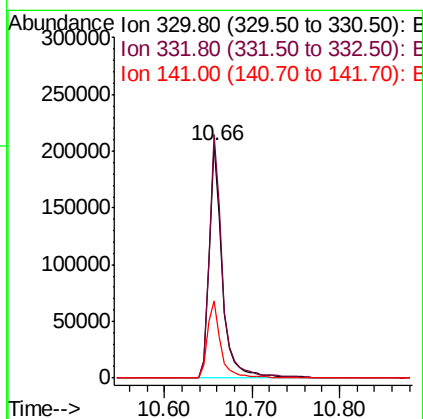
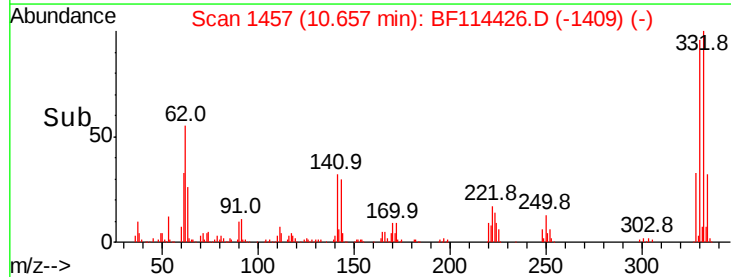
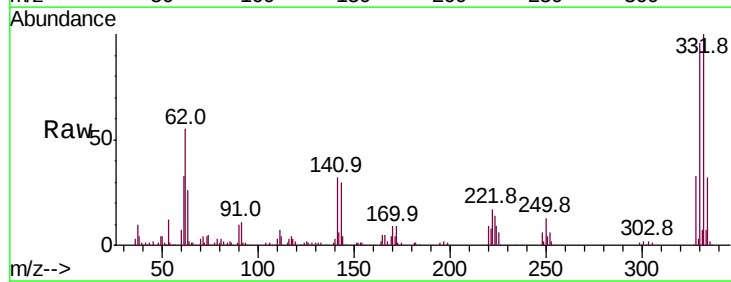
Tgt Ion: 330 Resp: 215485

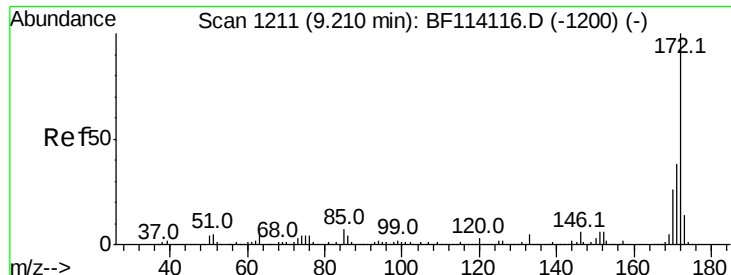
Ion Ratio Lower Upper

330 100

332 104.0 81.4 122.2

141 34.2 26.6 40.0

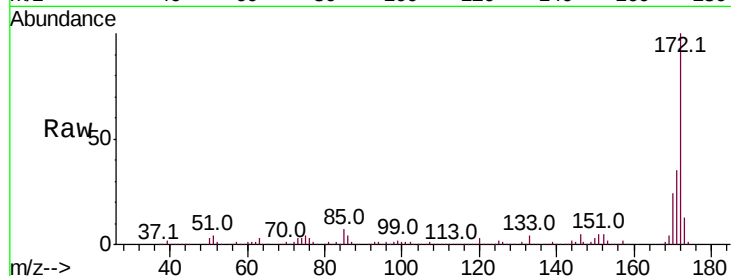




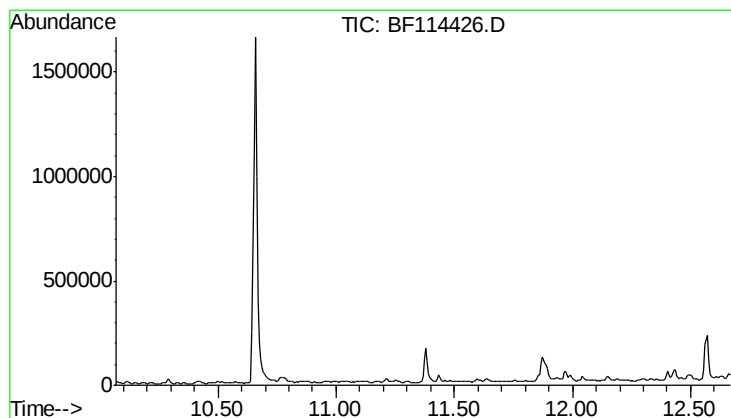
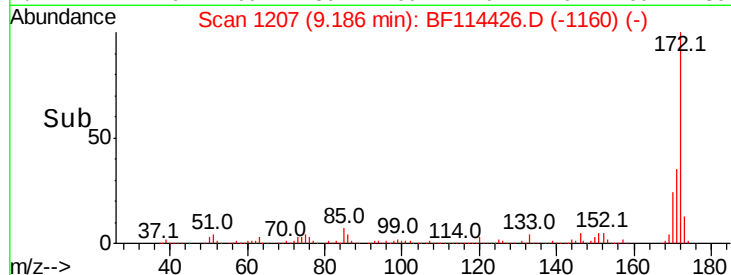
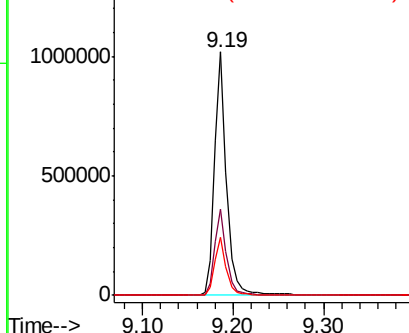
#45
 2-Fluorobiphenyl
 Concen: 0.000 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.02 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 949778
 Ion Ratio Lower Upper
 172 100
 171 35.3 30.7 46.1
 170 23.8 20.5 30.7

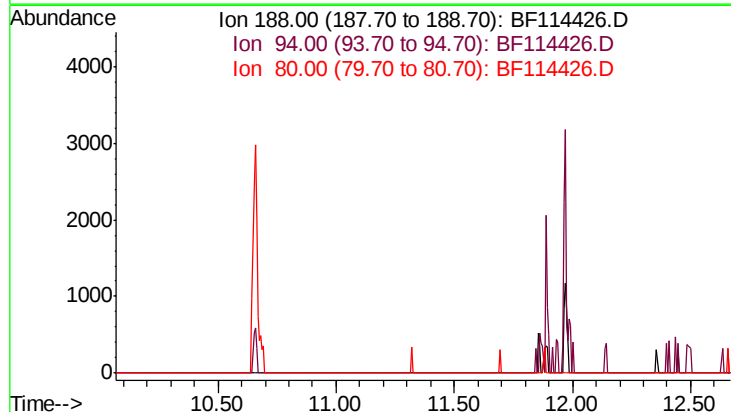


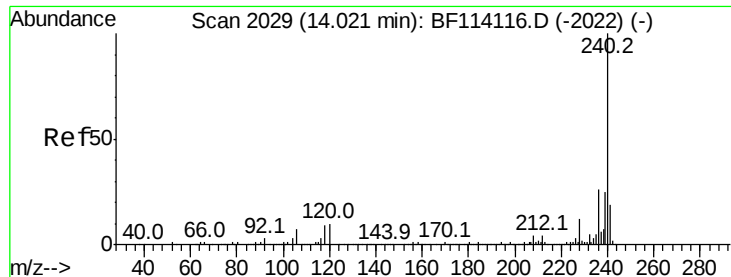
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



#64
 Phenanthrene-d10
 Concen: 0.000 ng
 Expected RT: 11.37 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Tgt Ion: 188
 Sig Exp Ratio
 188 100
 94 10.5
 80 11.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.02 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

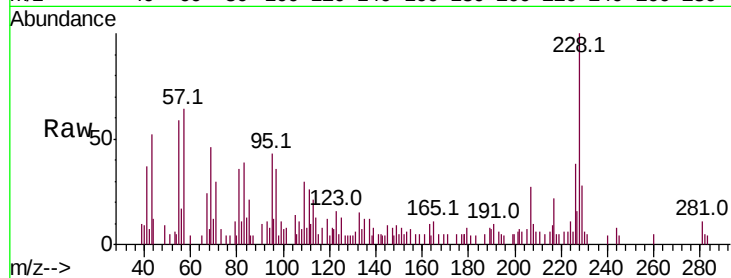
Tot Ion:240 Resp: 244

Ion Ratio Lower Upper

240 100

120 90.2 8.3 12.5#

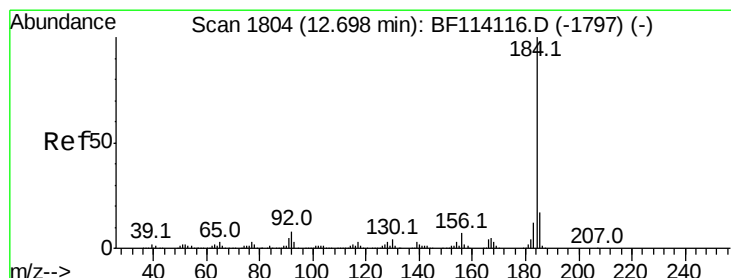
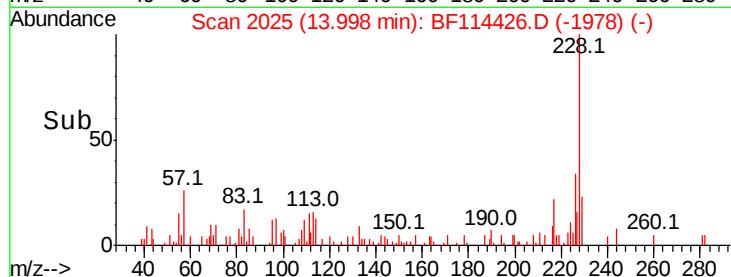
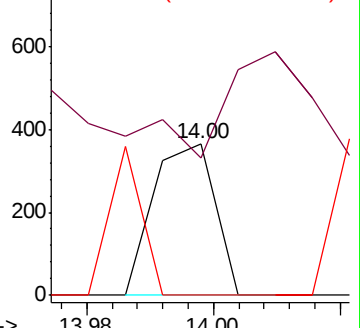
236 0.0 20.8 31.2#



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Benzidine

Concen: 1005.773 ng

RT: 12.93 min Scan# 1843

Delta R.T. 0.23 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

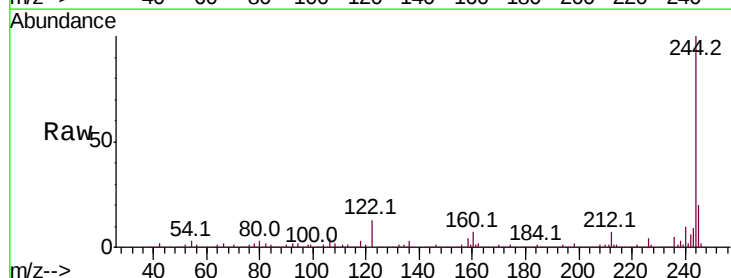
Tgt Ion:184 Resp: 11016

Ion Ratio Lower Upper

184 100

185 17.2 13.6 20.4

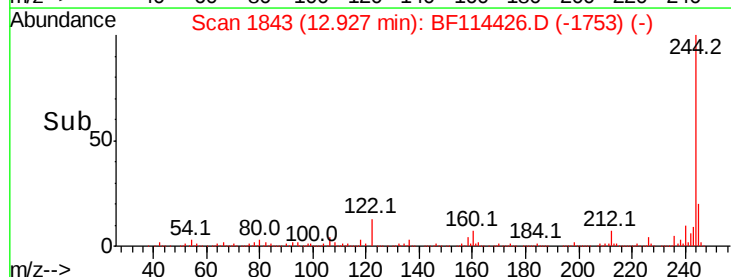
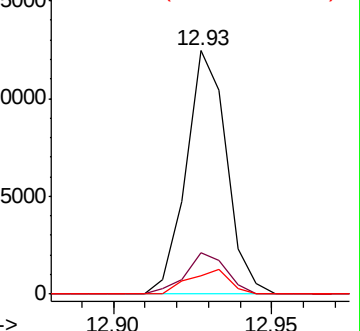
183 7.7 9.2 13.8#

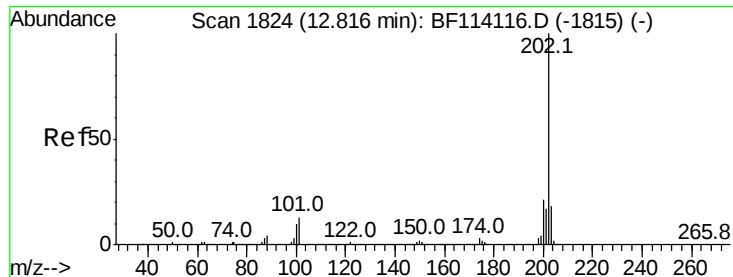


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Pvrene

Concen: 3745.553 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

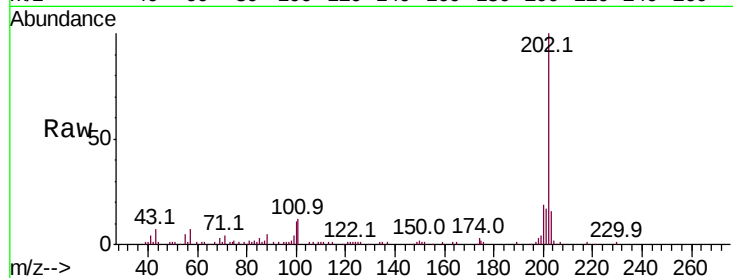
Tot Ion:202 Resp: 73520

Ion Ratio Lower Upper

202 100

200 18.5 16.9 25.3

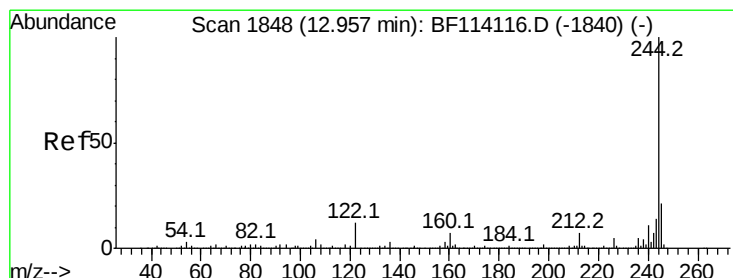
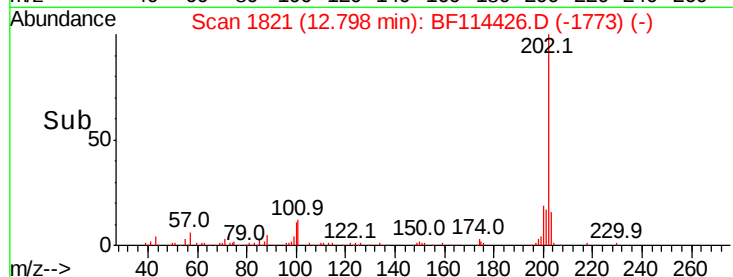
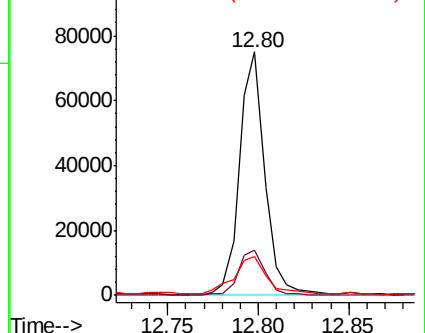
203 16.2 14.5 21.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 78069.814 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.02 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

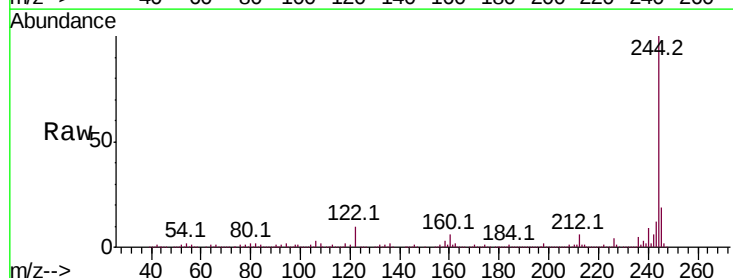
Tgt Ion:244 Resp: 924068

Ion Ratio Lower Upper

244 100

212 6.0 5.8 8.6

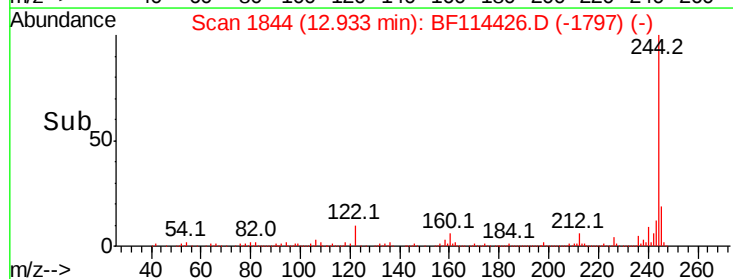
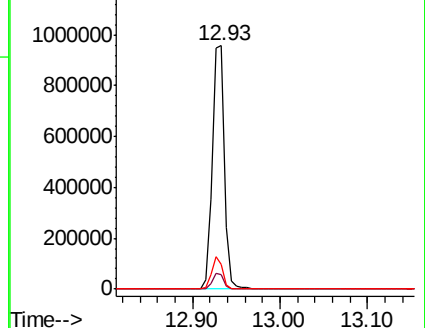
122 10.0 9.4 14.2

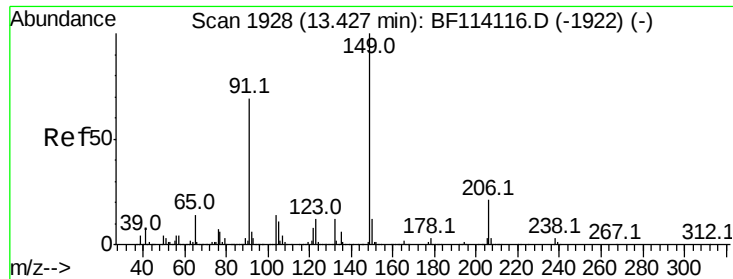


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

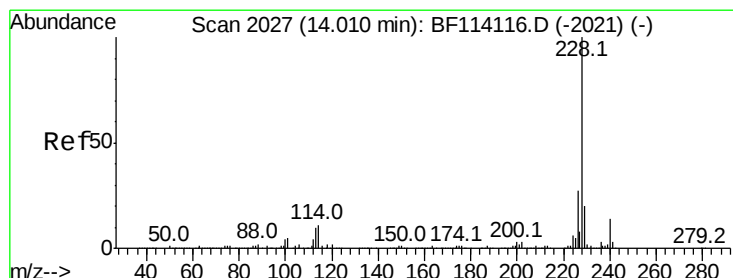
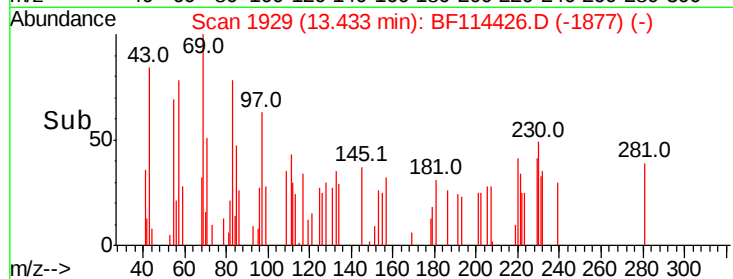
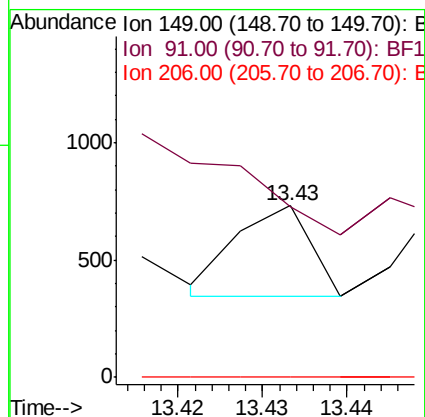
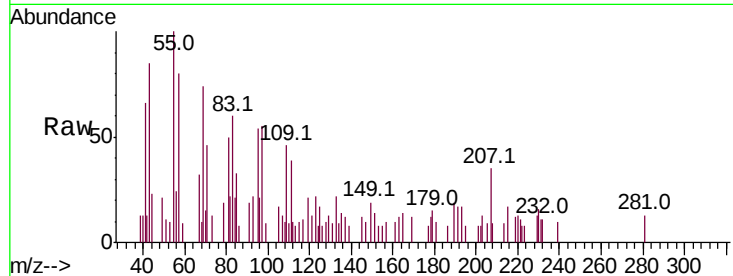




#80
 Butylbenzylphthalate
 Concen: 28.565 ng
 RT: 13.43 min Scan# 1929
 Delta R.T. 0.01 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

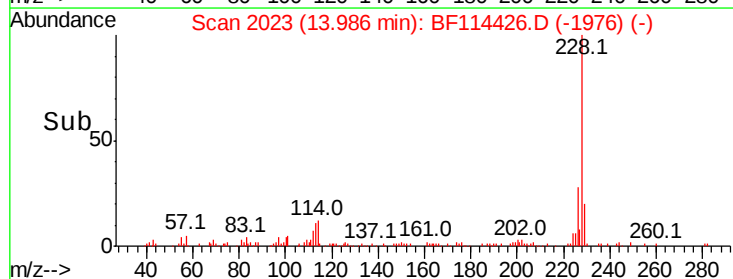
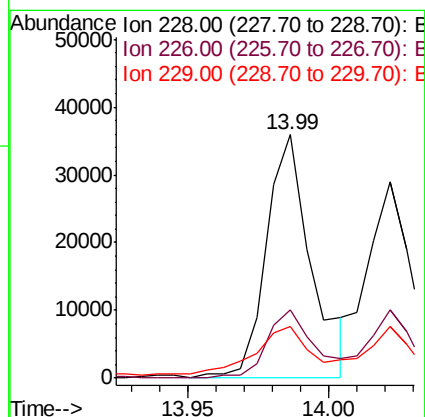
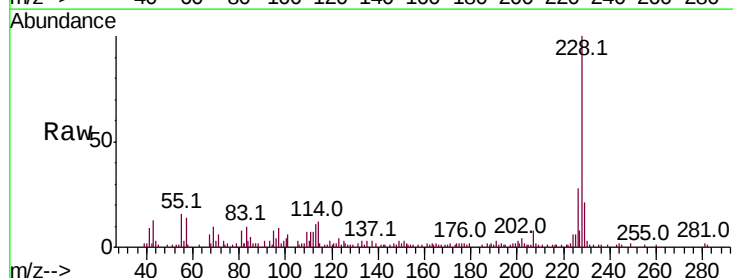
Instrument :
 BNA_F
 ClientSampleId :

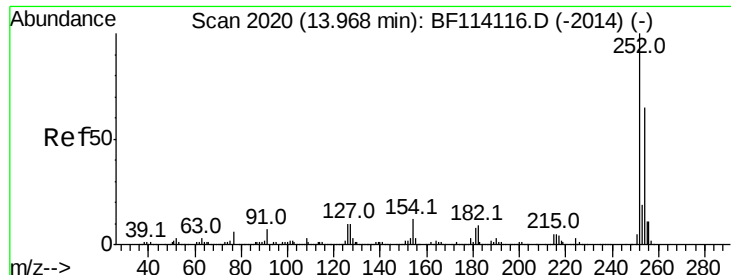
Tot Ion	Ratio	Lower	Upper
149	100		
91	99.3	55.0	82.4#
206	0.0	16.9	25.3#



#81
 Benzo(a)anthracene
 Concen: 2520.309 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.02 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	21.4	16.4	24.6





#82

3,3'-Dichlorobenzidine

Concen: 17.641 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

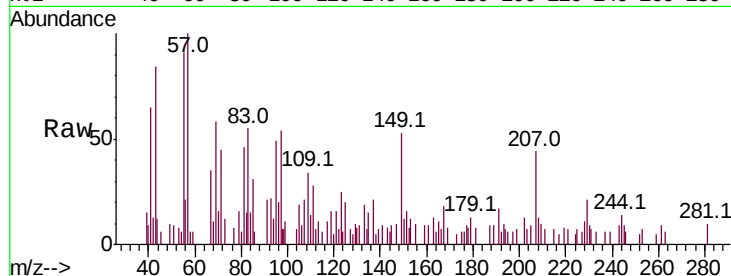
Tot Ion:252 Resp: 108

Ion Ratio Lower Upper

252 100

254 0.0 51.9 77.9#

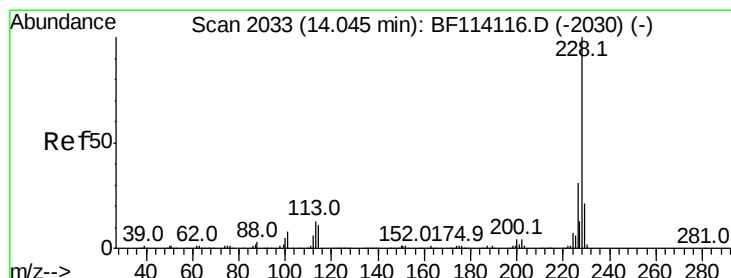
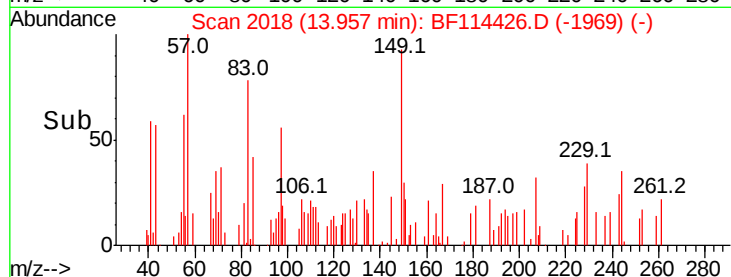
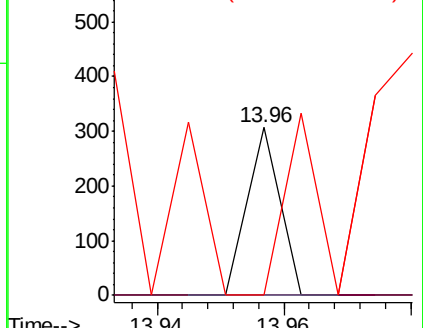
126 0.0 7.9 11.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#83

Chrysene

Concen: 2571.003 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.06 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

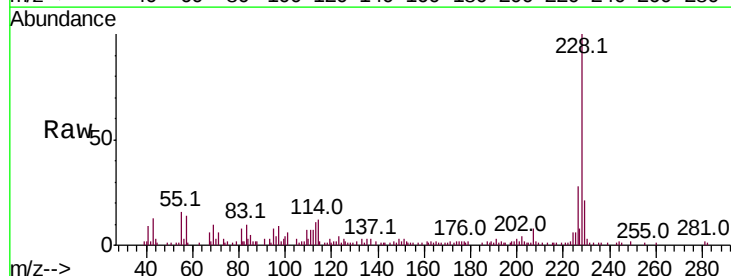
Tgt Ion:228 Resp: 39775

Ion Ratio Lower Upper

228 100

226 27.9 25.0 37.6

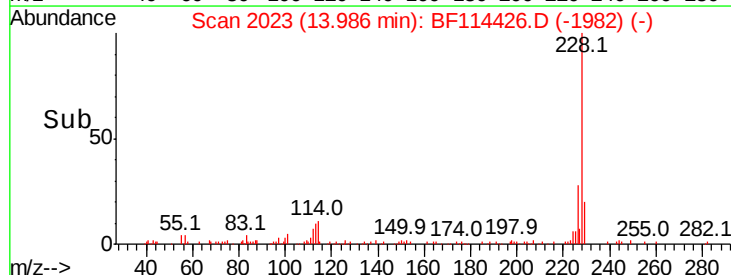
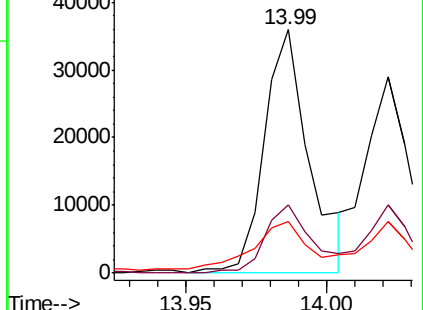
229 21.4 17.0 25.6

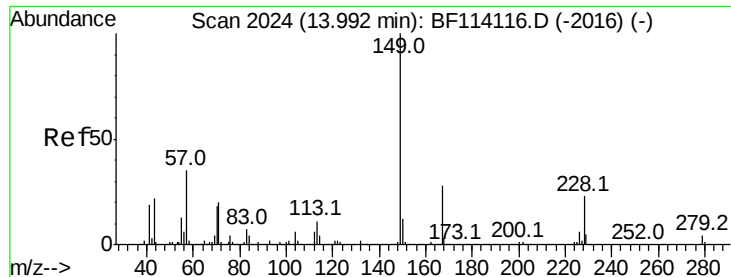


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 218.131 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.04 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampleId :

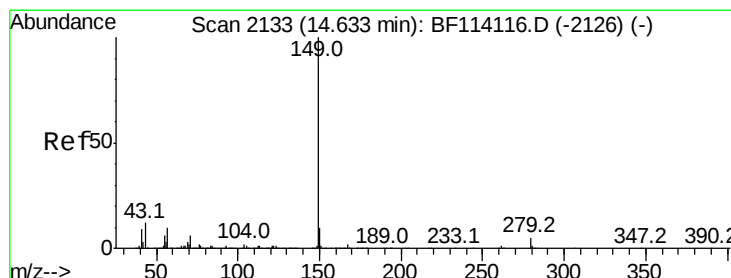
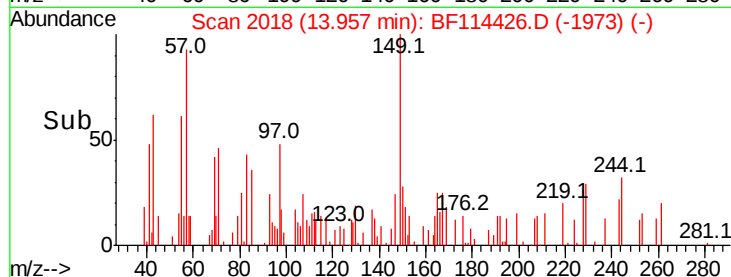
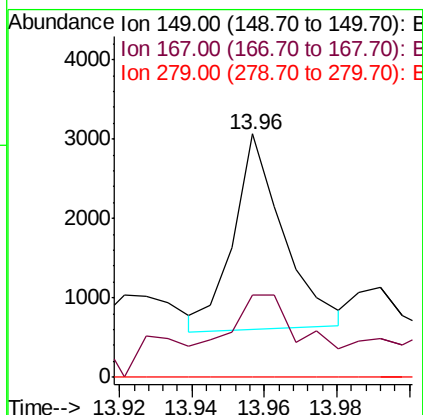
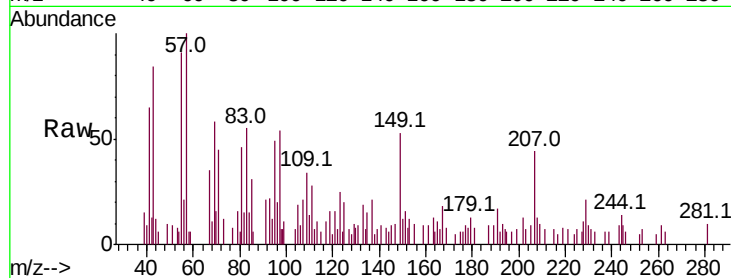
Tot Ion:149 Resp: 2357

Ion Ratio Lower Upper

149 100

167 33.9 22.6 33.8#

279 0.0 3.0 4.6#



#85

Di-n-octyl phthalate

Concen: 42.931 ng

RT: 14.64 min Scan# 2135

Delta R.T. 0.01 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

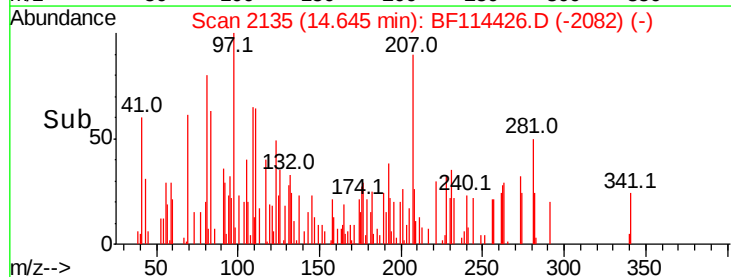
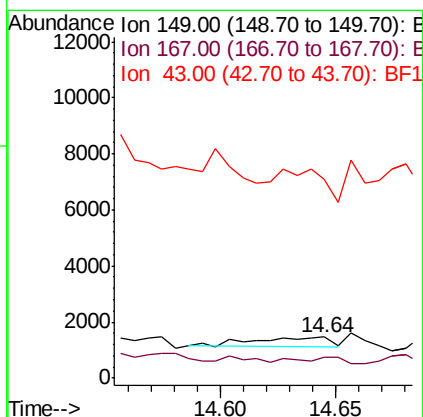
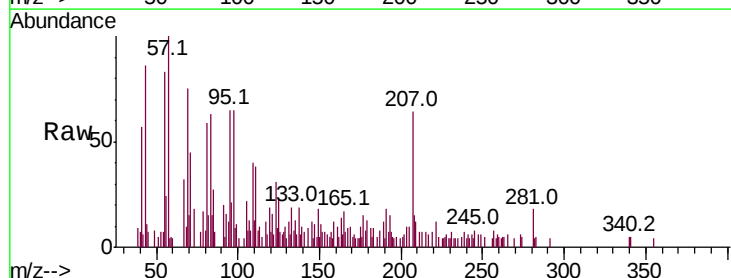
Tgt Ion:149 Resp: 752

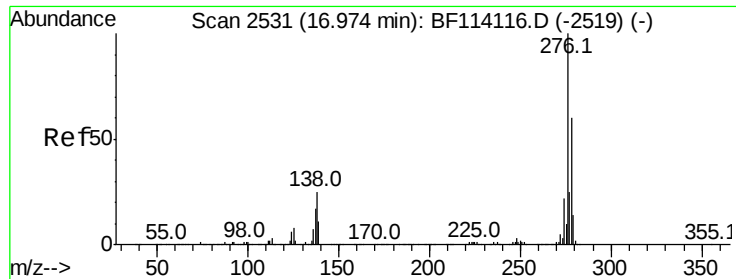
Ion Ratio Lower Upper

149 100

167 23.4 1.3 1.9#

43 105.1 10.1 15.1#

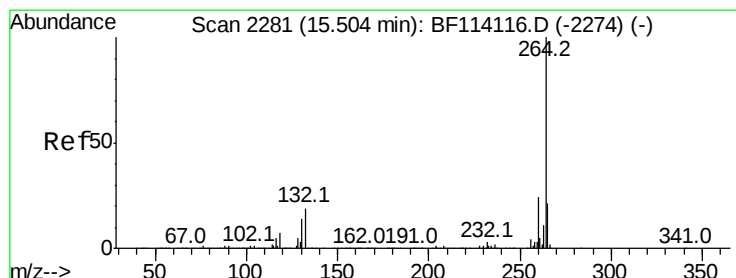
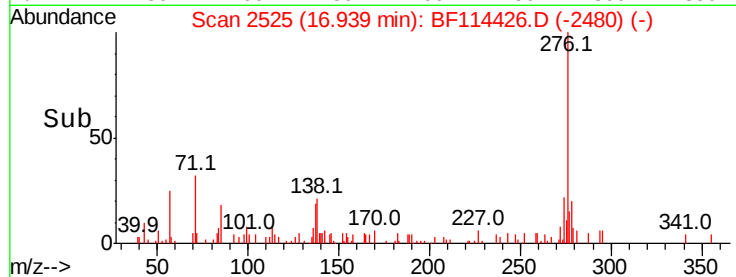
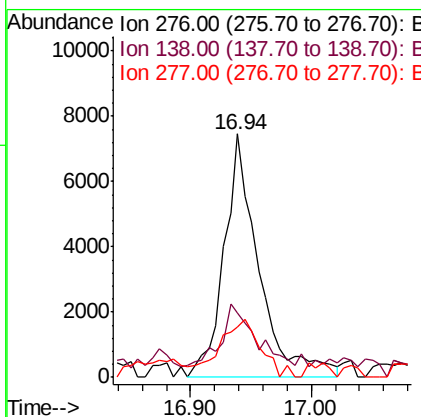
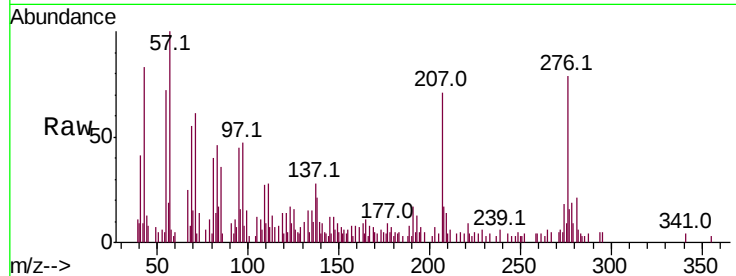




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 1089.986 ng
 RT: 16.94 min Scan# 2525
 Delta R.T. -0.04 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

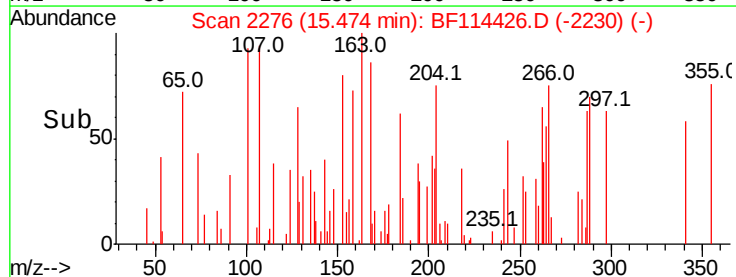
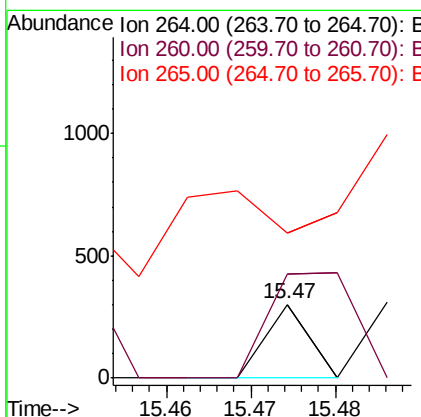
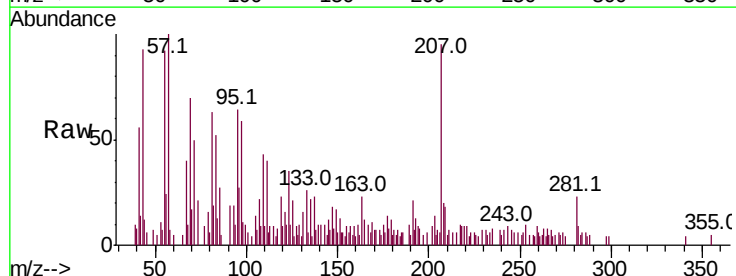
Instrument :
 BNA_F
 ClientSampled :

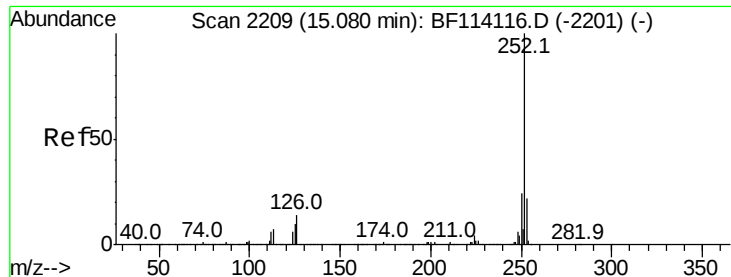
Tot Ion:	276	Resp:	14903
Ion	Ratio	Lower	Upper
276	100		
138	24.9	20.2	30.2
277	28.3	20.0	30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. -0.03 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Tgt Ion:	264	Resp:	106
Ion	Ratio	Lower	Upper
264	100		
260	141.3	19.4	29.0#
265	198.3	16.9	25.3#

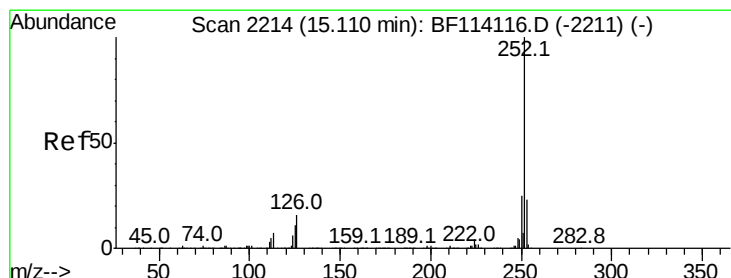
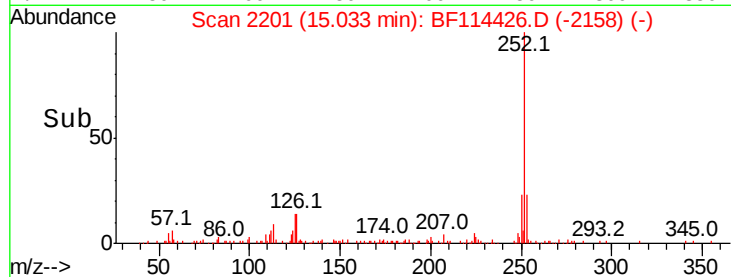
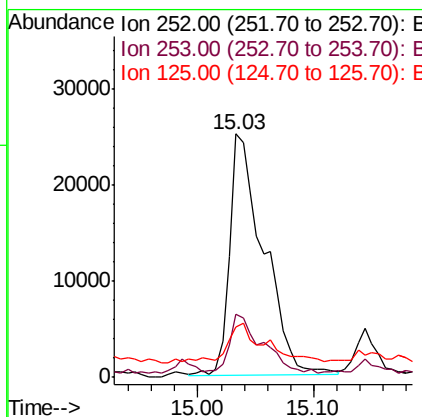
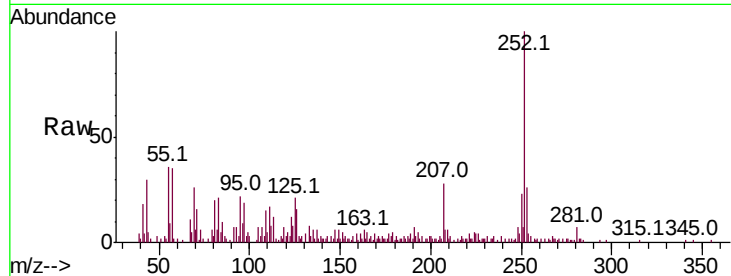




#88
Benzo(b)fluoranthene
Concen: 7561.221 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.05 min
Lab File: BF114426.D
Acq: 19 May 2019 8:01

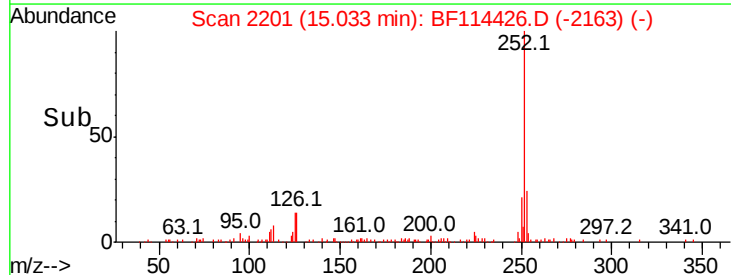
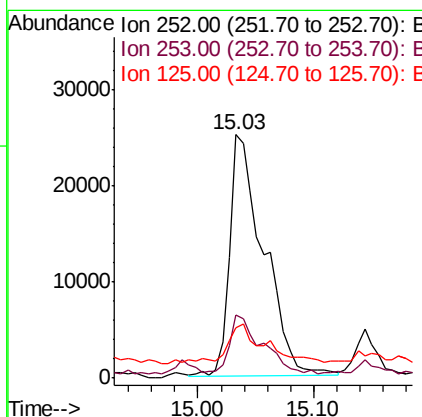
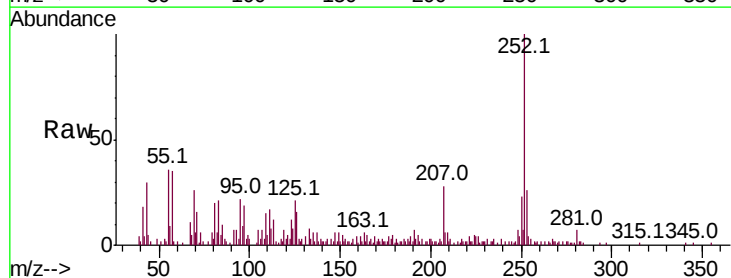
Instrument :
BNA_F
ClientSampleId :

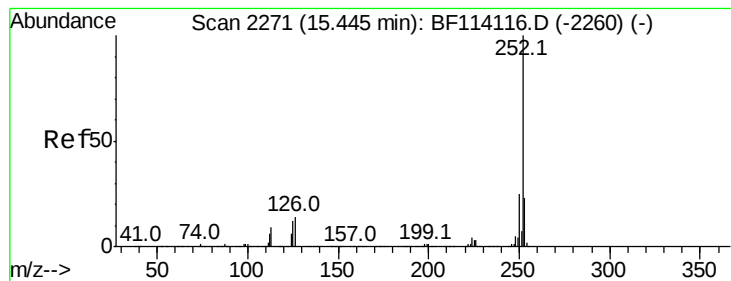
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.8	26.8
125	20.9	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 8231.240 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.08 min
Lab File: BF114426.D
Acq: 19 May 2019 8:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	18.2	27.2
125	20.9	8.6	13.0





#90

Benzo(a)pyrene

Concen: 4608.636 ng

RT: 15.40 min Scan# 2264

Delta R.T. -0.04 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

Instrument :

BNA_F

ClientSampled :

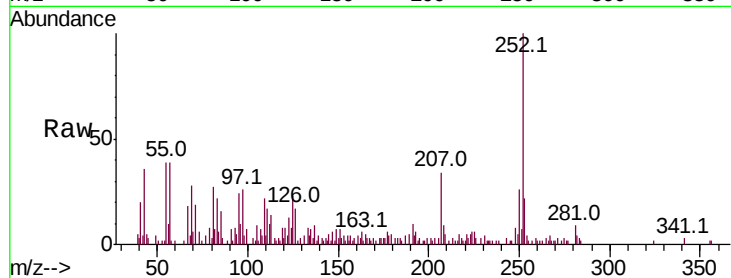
Tot Ion:252 Resp: 27544

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

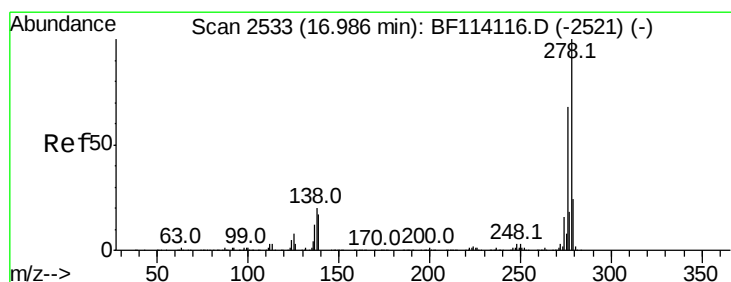
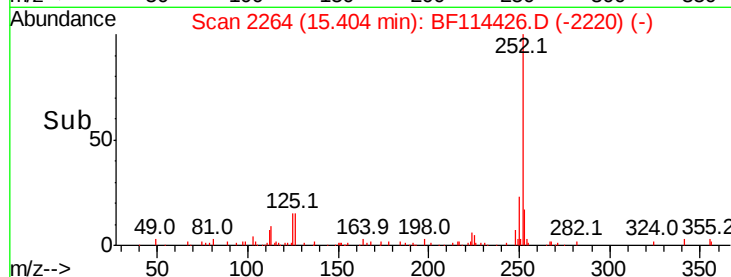
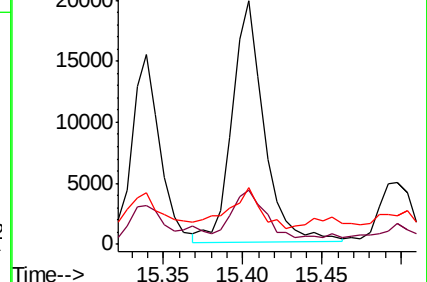
125 23.0 9.5 14.3#



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

Dibenzo(a,h)anthracene

Concen: 1085.116 ng

RT: 16.94 min Scan# 2525

Delta R.T. -0.05 min

Lab File: BF114426.D

Acq: 19 May 2019 8:01

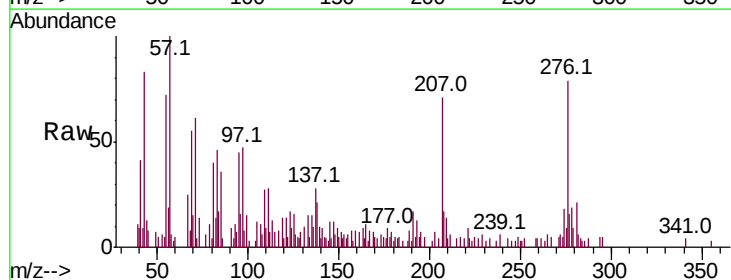
Tgt Ion:278 Resp: 5389

Ion Ratio Lower Upper

278 100

139 51.1 13.5 20.3#

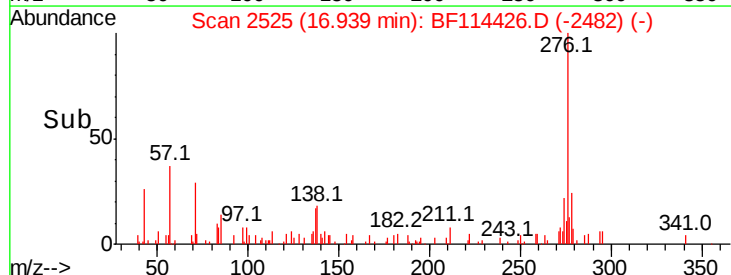
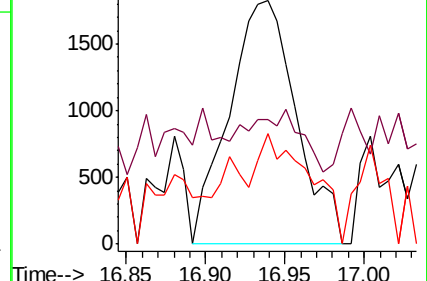
279 45.2 19.0 28.6#

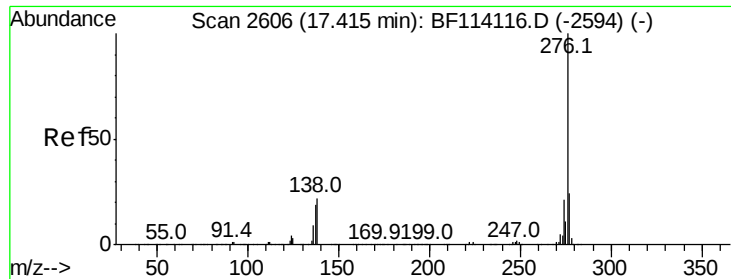


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 2501.926 ng
 RT: 17.39 min Scan# 2601
 Delta R.T. -0.03 min
 Lab File: BF114426.D
 Acq: 19 May 2019 8:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	29.9	19.0	28.4#
138	29.4	17.8	26.6#

