

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
 Data File : BF116093.D
 Acq On : 9 Aug 2019 2:58
 Operator : HP/JU
 Sample : K4178-01RE 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 09 09:17:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	152785	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	618952	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	320711	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	479001	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	300505	20.00	ng	0.00
87) Perylene-d12	15.47	264	320682	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	391891	42.94	ng	-0.01
7) Phenol-d6	6.47	99	525464	45.63	ng	-0.02
23) Nitrobenzene-d5	7.40	82	331412	30.91	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	120477	38.75	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	637564	37.24	ng	-0.02
79) Terphenyl-d14	12.94	244	530139	37.17	ng	-0.01

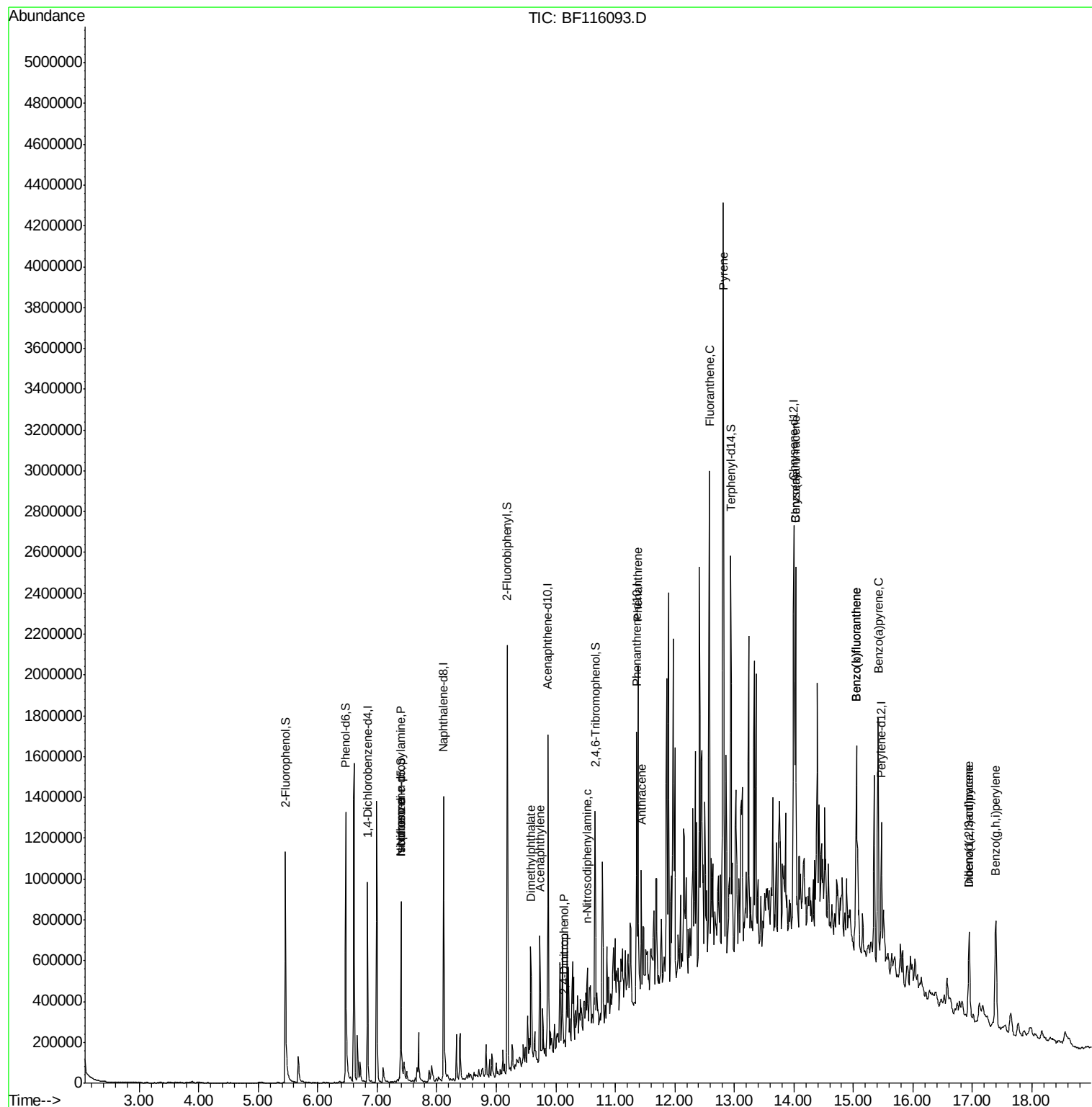
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.40	70	43946	6.159	ng	# 79
25) Isophorone	7.40	82	331411	16.164	ng	# 65
49) Acenaphthylene	9.73	152	229241	8.338	ng	97
50) Dimethylphthalate	9.59	163	115314	5.281	ng	# 98
54) 2,4-Dinitrophenol	10.15	184	780	8.104	ng	# 10
66) n-Nitrosodiphenylamine	10.53	169	52452	3.638	ng	# 54
71) Phenanthrene	11.38	178	631459	25.787	ng	98
72) Anthracene	11.43	178	255153	10.296	ng	99
75) Fluoranthene	12.58	202	902056	35.187	ng	98
78) Pyrene	12.81	202	1829971	80.785	ng	99
81) Benzo(a)anthracene	14.03	228	686302	35.731	ng	93
83) Chrysene	14.03	228	686302	36.805	ng	98
86) Indeno(1,2,3-cd)pyrene	16.94	276	272103	17.374	ng	95
88) Benzo(b)fluoranthene	15.05	252	725749	39.140	ng	# 97
89) Benzo(k)fluoranthene	15.05	252	725749	40.185	ng	# 96
90) Benzo(a)pyrene	15.42	252	583302	35.191	ng	98
91) Dibenzo(a,h)anthracene	16.94	278	82683	5.763	ng	# 85
92) Benzo(g,h,i)perylene	17.39	276	427721	30.355	ng	98

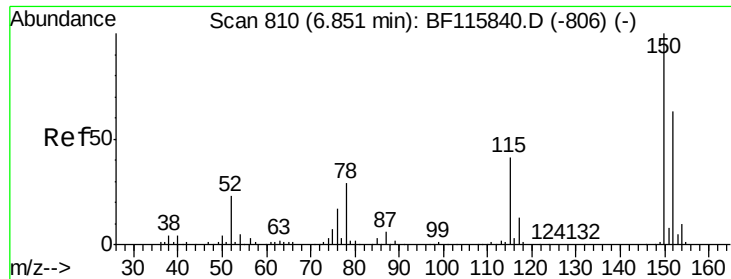
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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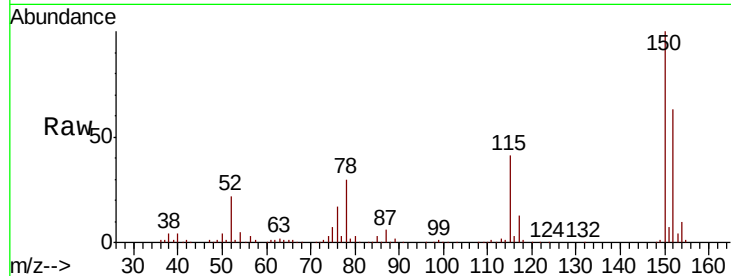


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF116093.D
Acq: 9 Aug 2019 2:58

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	126.2	189.2
115	64.7	49.9	74.9

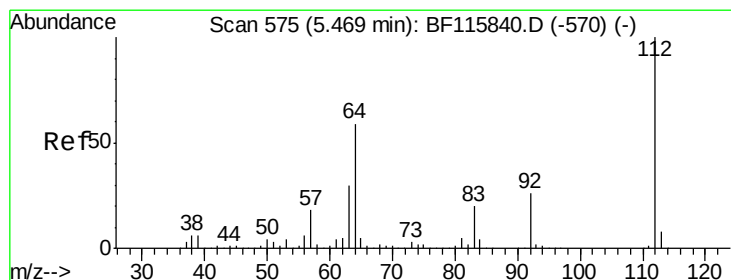
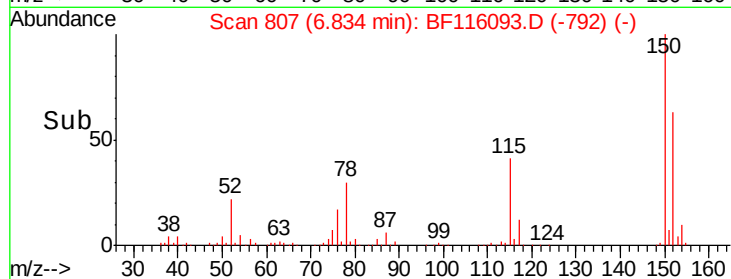
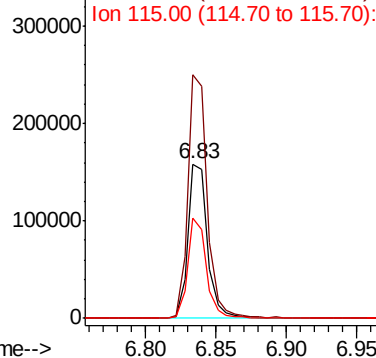


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

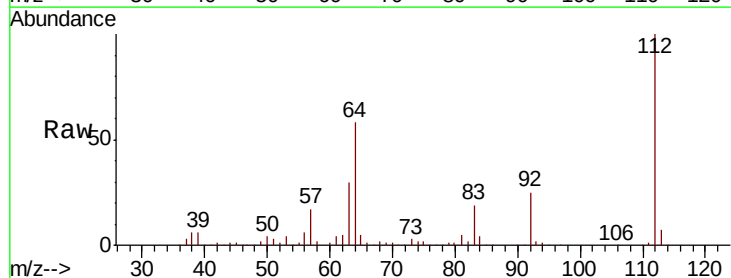
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 42.939 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116093.D
Acq: 9 Aug 2019 2:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	45.4	68.2
63	30.4	23.7	35.5

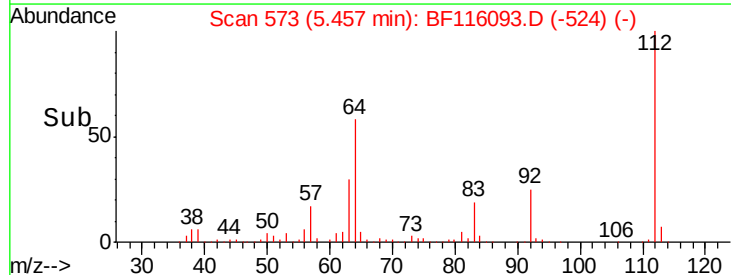
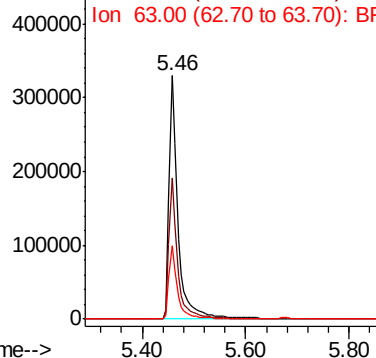


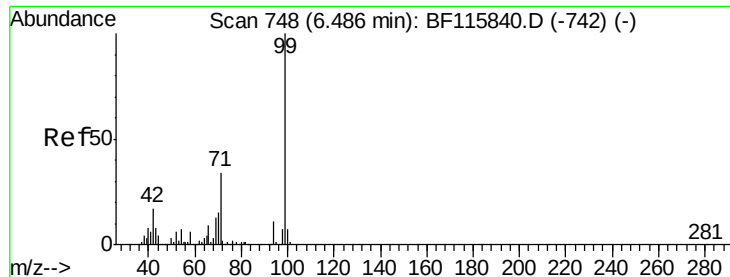
Abundance

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: 45.634 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

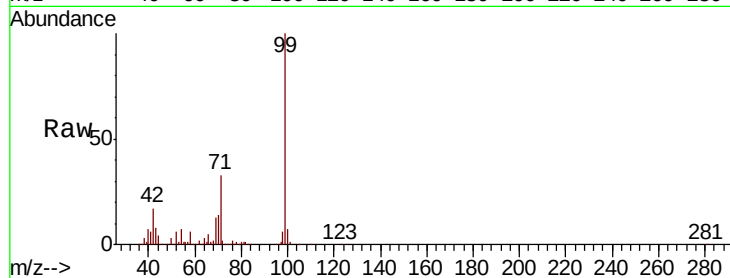
Tot Ion: 99 Resp: 525464

Ion Ratio Lower Upper

99 100

42 17.2 13.8 20.8

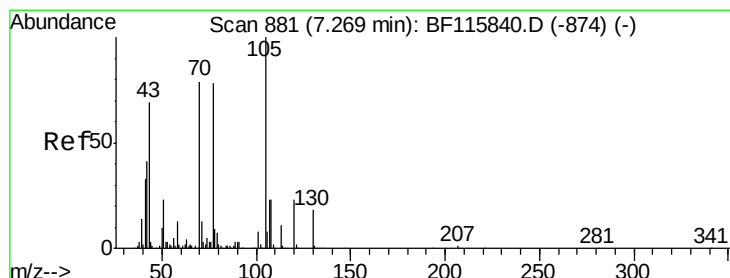
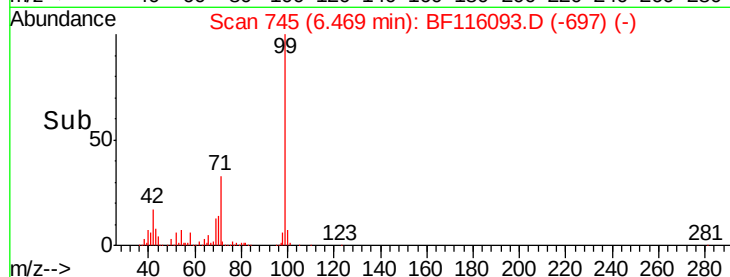
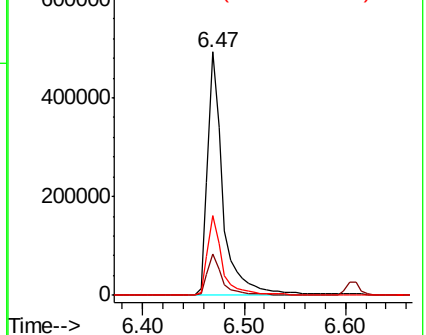
71 32.9 27.3 40.9



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.159 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.13 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Tgt Ion: 70 Resp: 43946

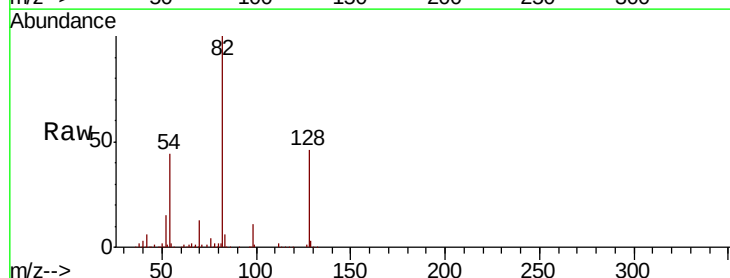
Ion Ratio Lower Upper

70 100

42 43.2 40.9 61.3

101 0.0 7.9 11.9#

130 2.3 16.9 25.3#

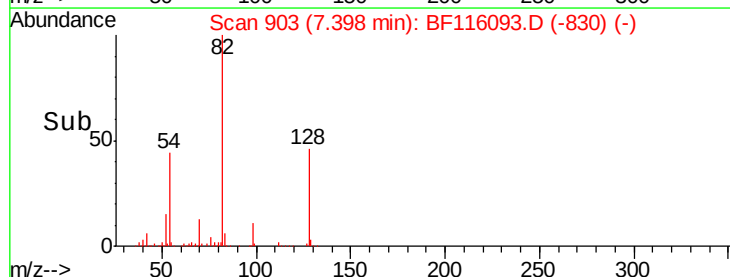
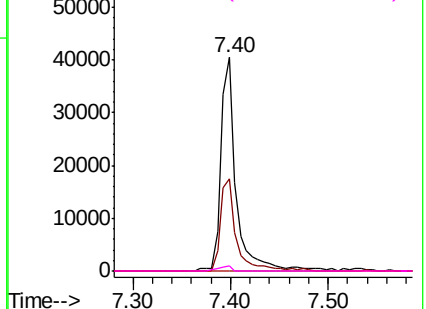


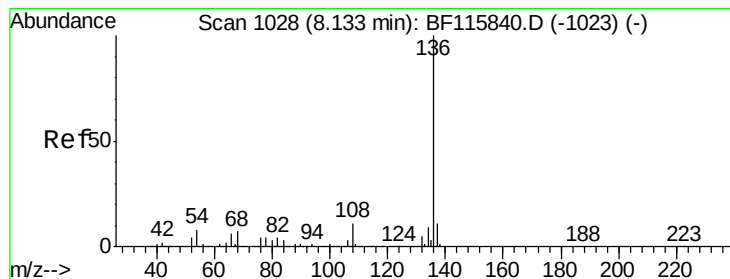
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 618952

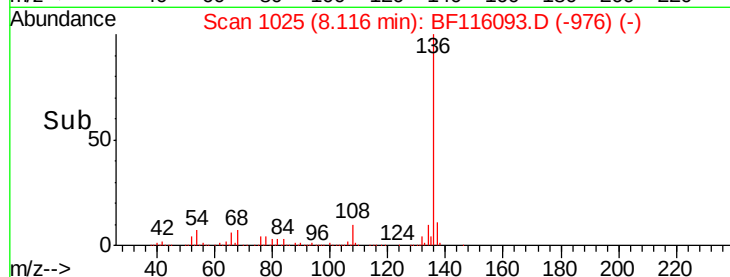
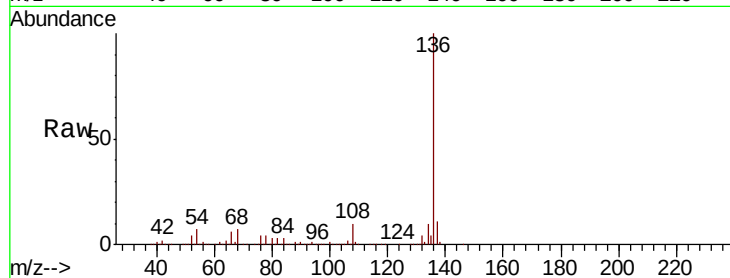
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.1 5.8 8.6

68 6.6 5.2 7.8

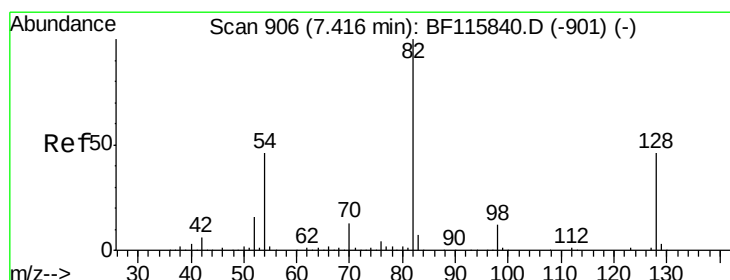
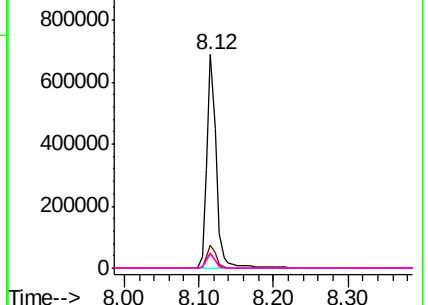


Abundance Ion 136.00 (135.70 to 136.70): E

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: 30.907 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

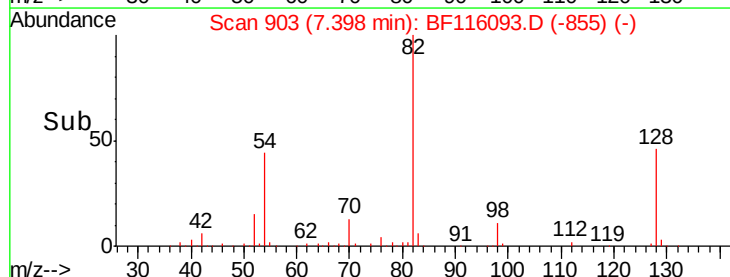
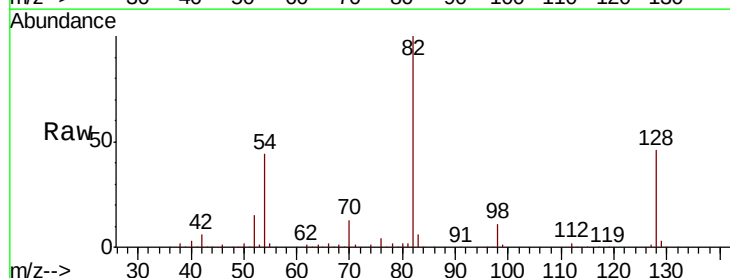
Tgt Ion: 82 Resp: 331412

Ion Ratio Lower Upper

82 100

128 46.1 36.5 54.7

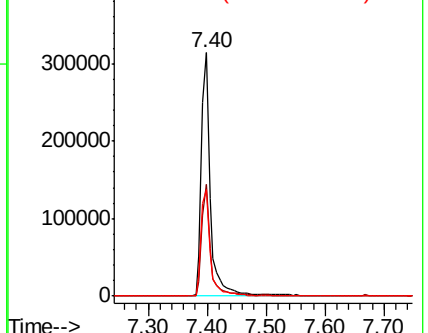
54 43.7 36.0 54.0

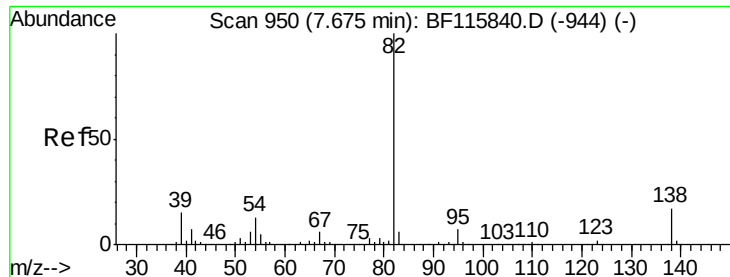


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.164 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

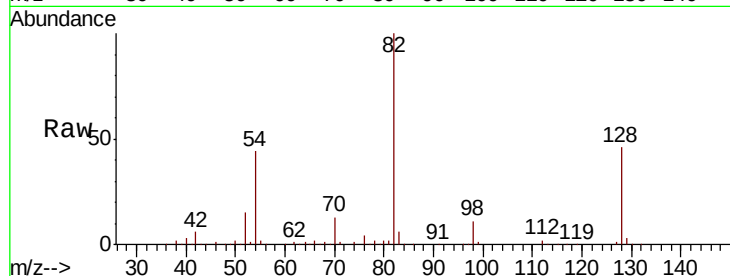
Tot Ion: 82 Resp: 331411

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

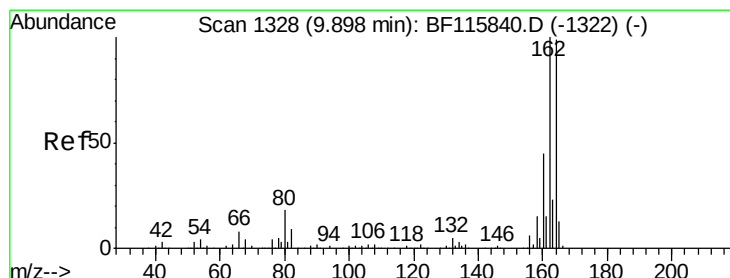
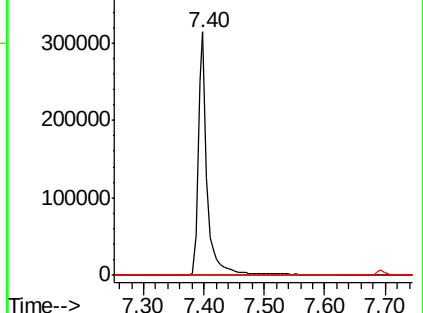
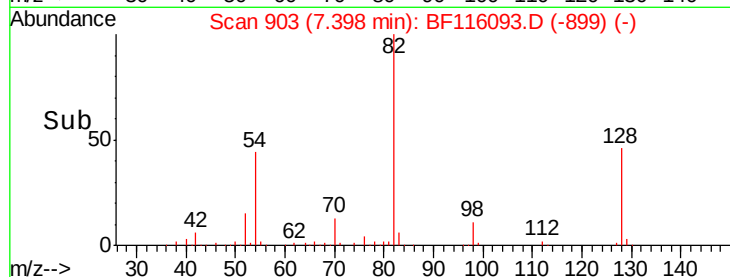
138 0.0 14.5 21.7#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

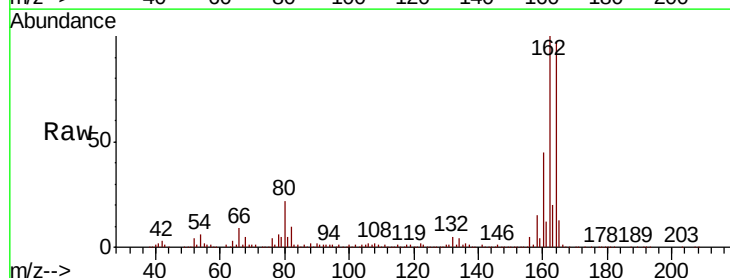
Tgt Ion: 164 Resp: 320711

Ion Ratio Lower Upper

164 100

162 103.4 82.6 124.0

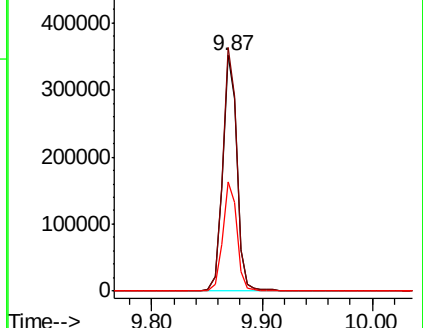
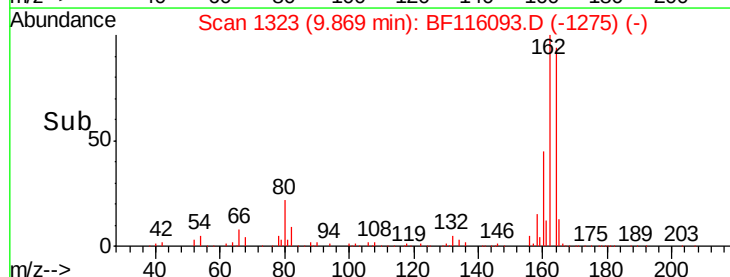
160 46.5 37.6 56.4

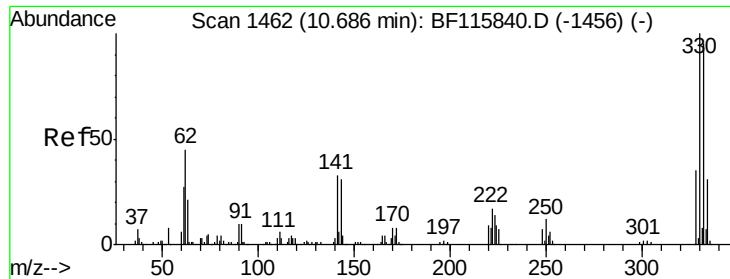


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 38.746 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

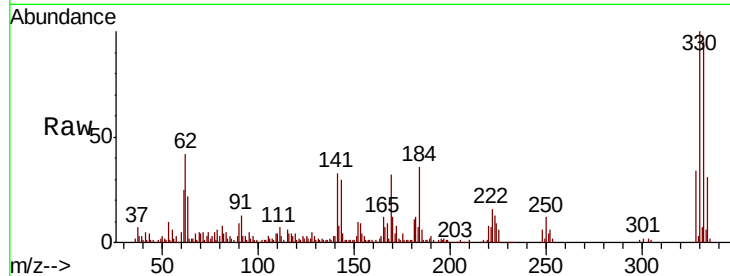
Tot Ion:330 Resp: 120477

Ion Ratio Lower Upper

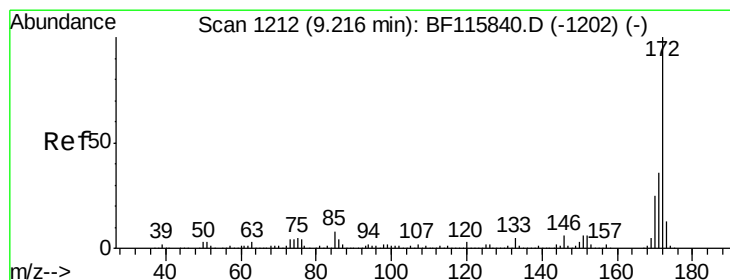
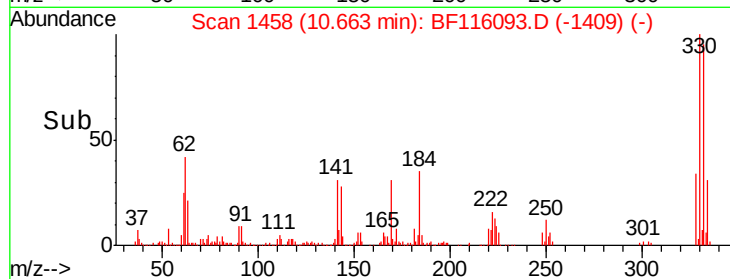
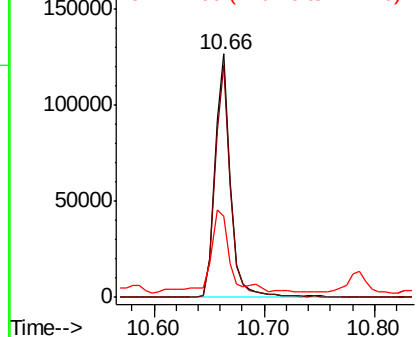
330 100

332 95.0 76.8 115.2

141 46.2 26.3 39.5#



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



#45

2-Fluorobiphenyl

Concen: 37.236 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.02 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

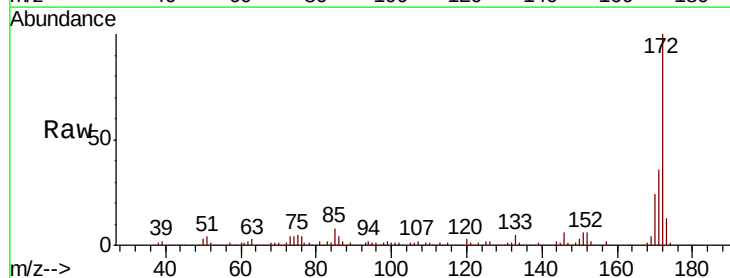
Tgt Ion:172 Resp: 637564

Ion Ratio Lower Upper

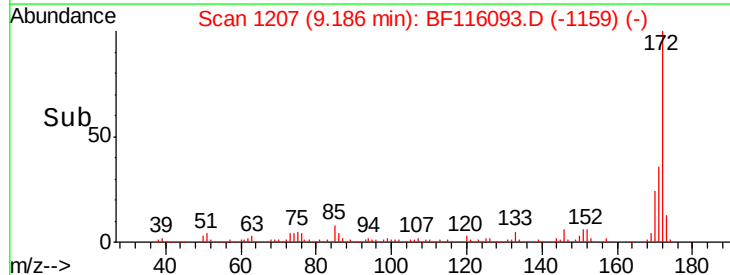
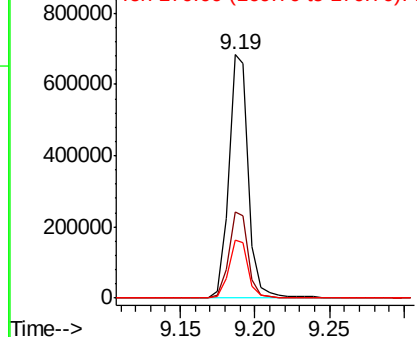
172 100

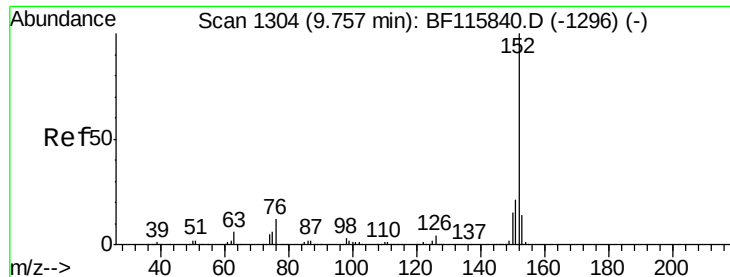
171 35.6 29.6 44.4

170 24.1 20.1 30.1



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





#49

Acenaphthylene

Concen: 8.338 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

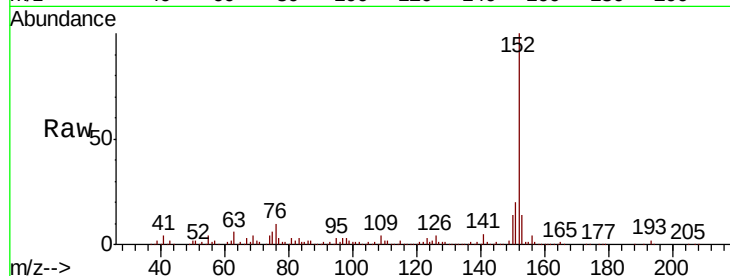
Tot Ion:152 Resp: 229241

Ion Ratio Lower Upper

152 100

151 19.6 17.2 25.8

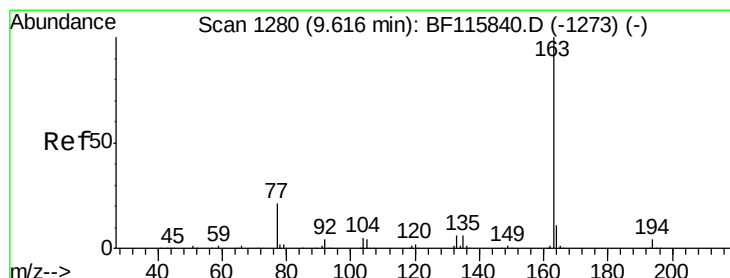
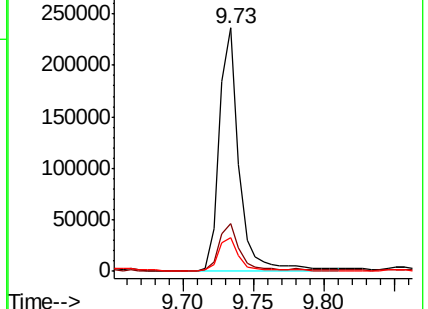
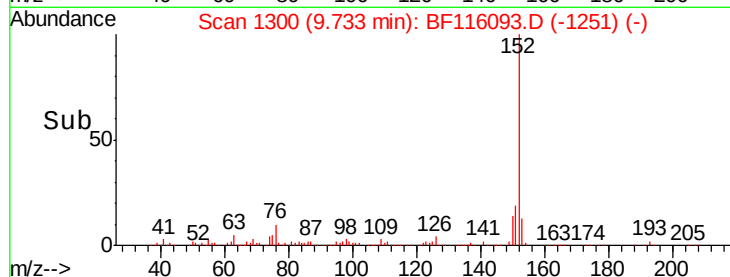
153 13.8 11.8 17.8



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



#50

Dimethylphthalate

Concen: 5.281 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

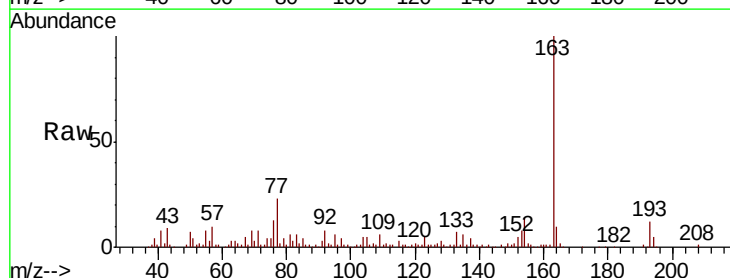
Tgt Ion:163 Resp: 115314

Ion Ratio Lower Upper

163 100

194 5.4 3.0 4.6#

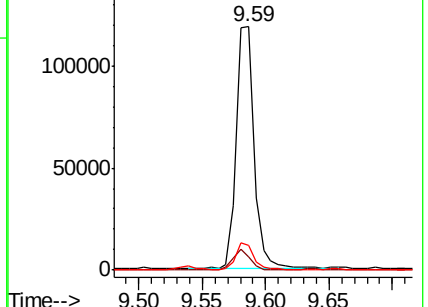
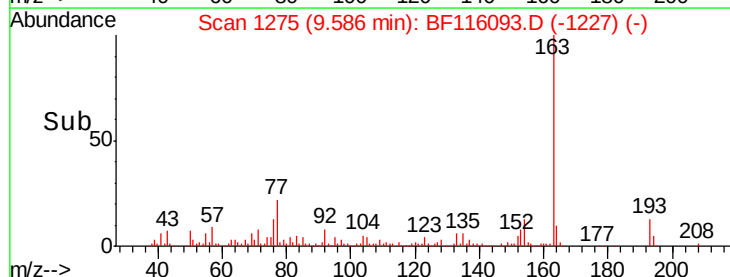
164 10.0 8.4 12.6

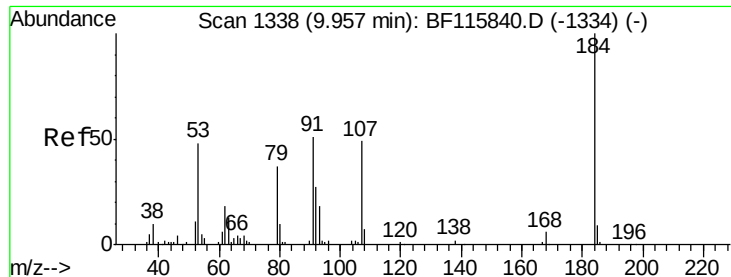


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#54

2,4-Dinitrophenol

Concen: 8.104 ng

RT: 10.15 min Scan# 1371

Delta R.T. 0.19 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampled :

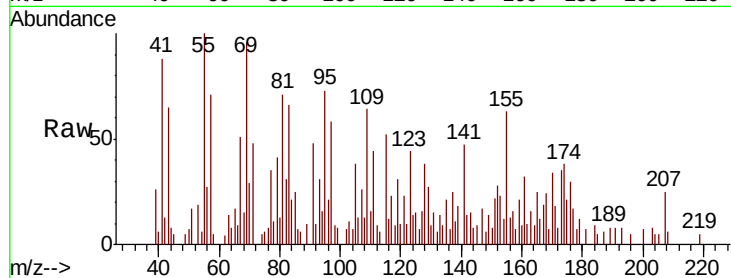
Tot Ion:184 Resp: 780

Ion Ratio Lower Upper

184 100

63 146.3 53.0 79.4#

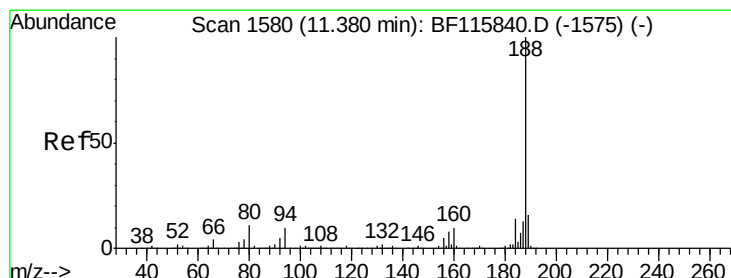
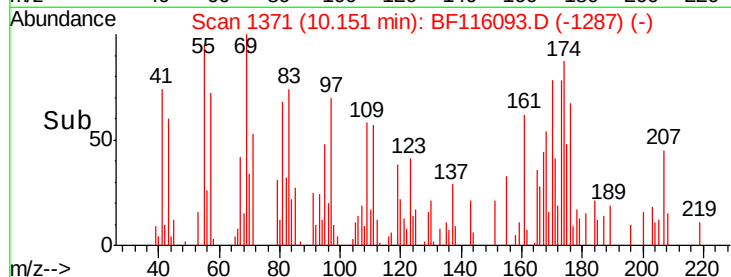
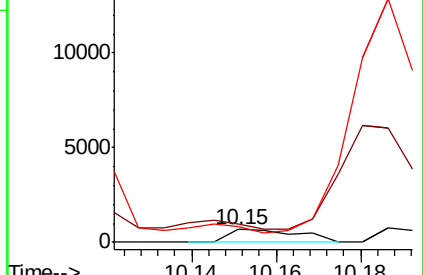
154 123.8 50.1 75.1#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

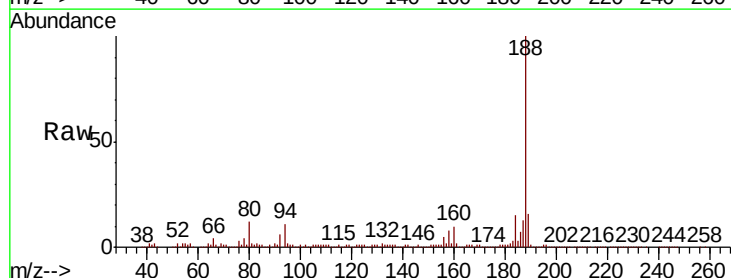
Tgt Ion:188 Resp: 479001

Ion Ratio Lower Upper

188 100

94 10.5 8.1 12.1

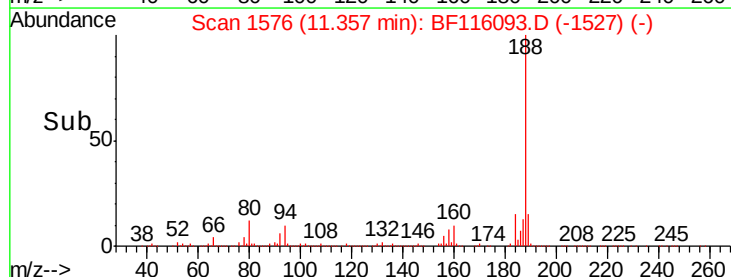
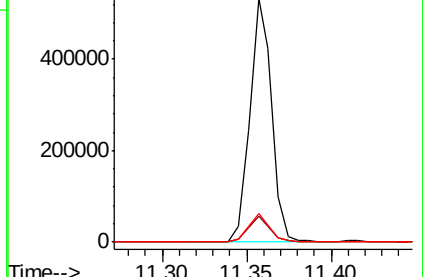
80 11.7 8.7 13.1

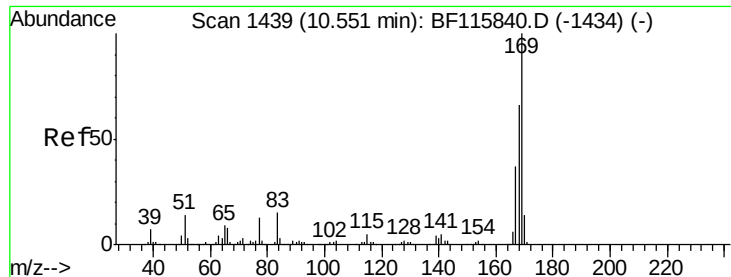


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

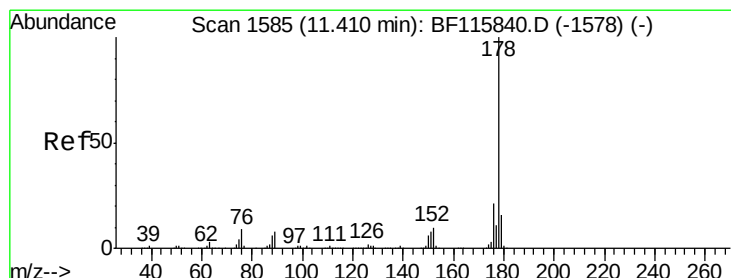
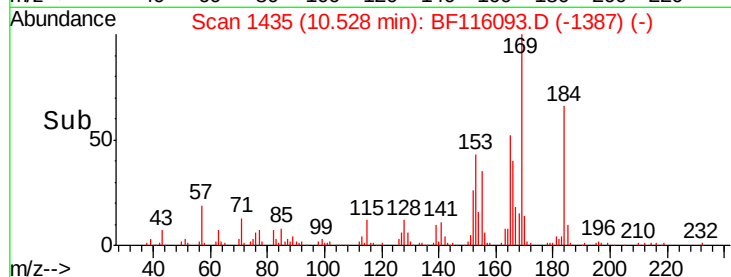
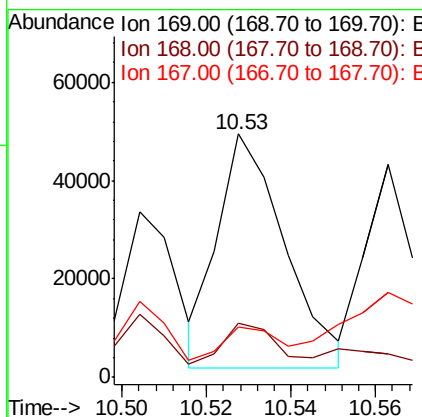
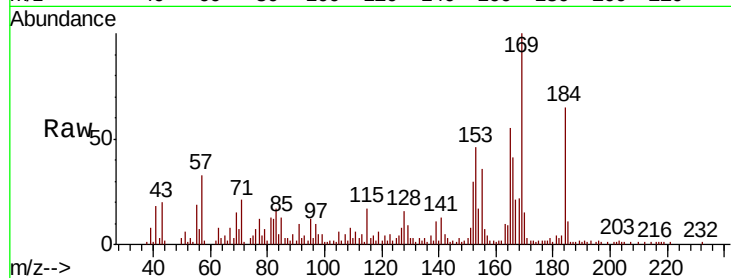




#66
 n-Nitrosodiphenylamine
 Concen: 3.638 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.02 min
 Lab File: BF116093.D
 Acq: 9 Aug 2019 2:58

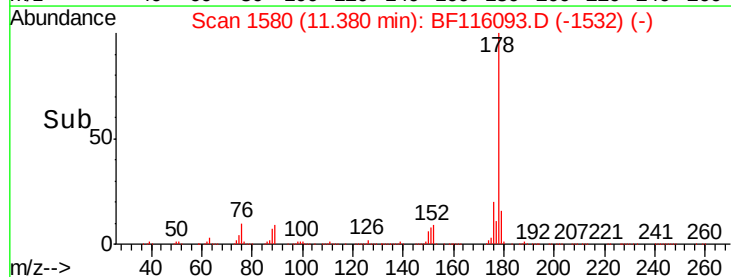
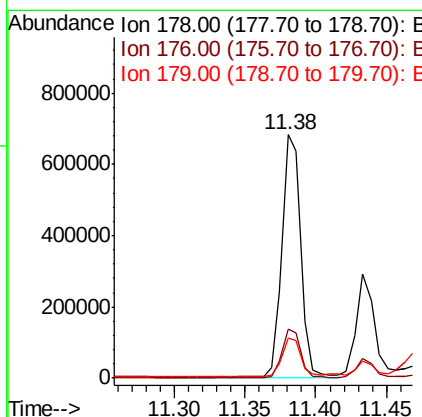
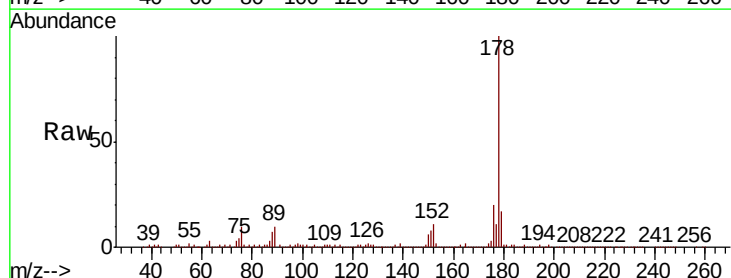
Instrument :
 BNA_F
 ClientSampled :

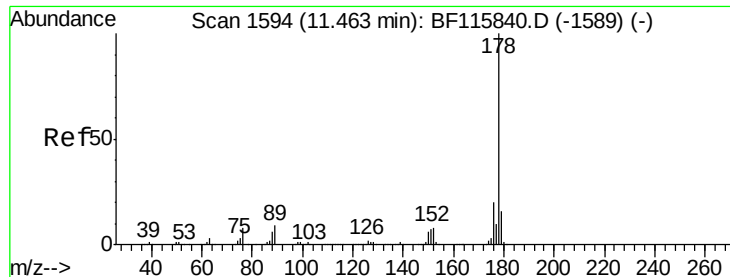
Tot Ion:169 Resp: 52452
 Ion Ratio Lower Upper
 169 100
 168 22.1 53.8 80.6#
 167 20.9 29.6 44.4#



#71
 Phenanthrene
 Concen: 25.787 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.02 min
 Lab File: BF116093.D
 Acq: 9 Aug 2019 2:58

Tgt Ion:178 Resp: 631459
 Ion Ratio Lower Upper
 178 100
 176 20.1 16.6 24.8
 179 16.5 12.5 18.7





#72

Anthracene

Concen: 10.296 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

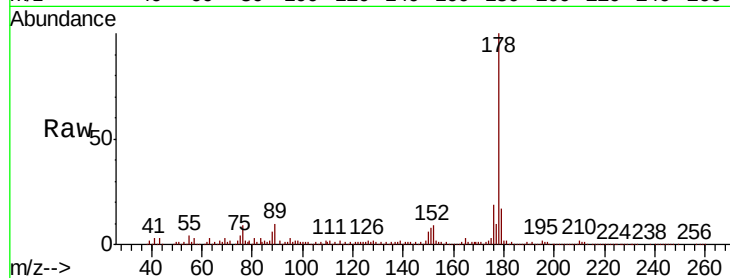
Tot Ion:178 Resp: 255153

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 16.7 13.0 19.6

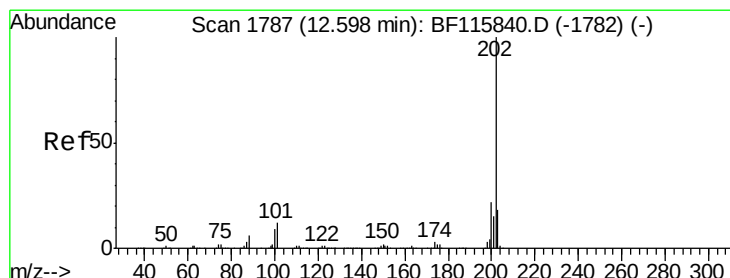
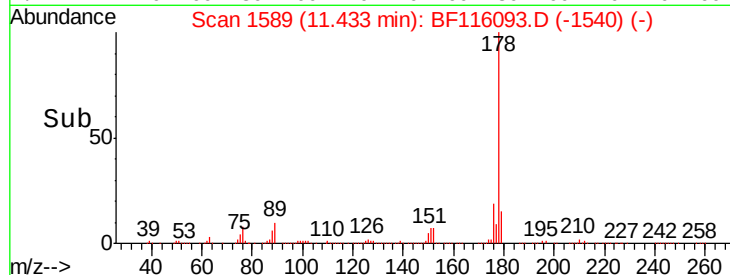
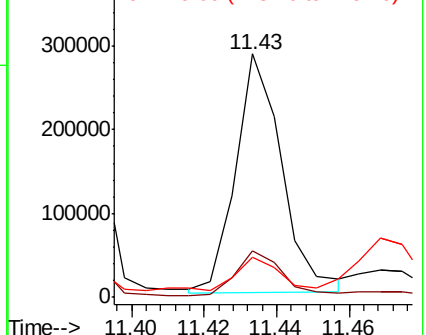


Abundance

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



#75

Fluoranthene

Concen: 35.187 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

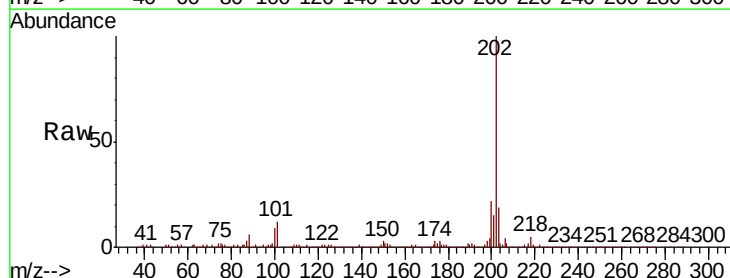
Tgt Ion:202 Resp: 902056

Ion Ratio Lower Upper

202 100

101 12.2 0.0 31.2

203 18.6 0.0 37.8

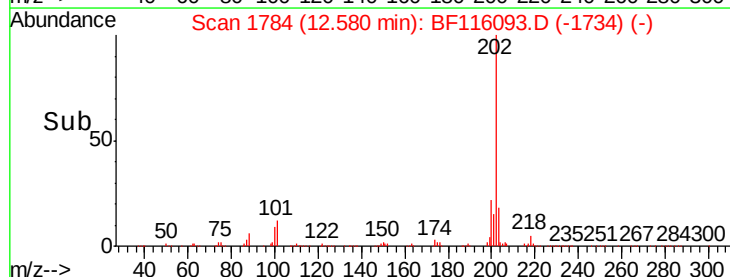
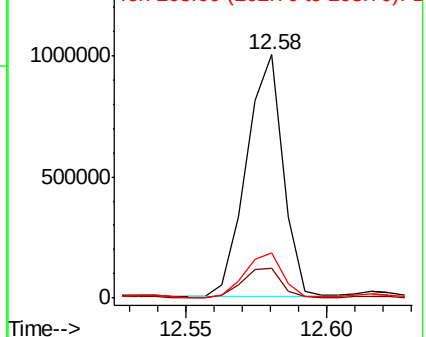


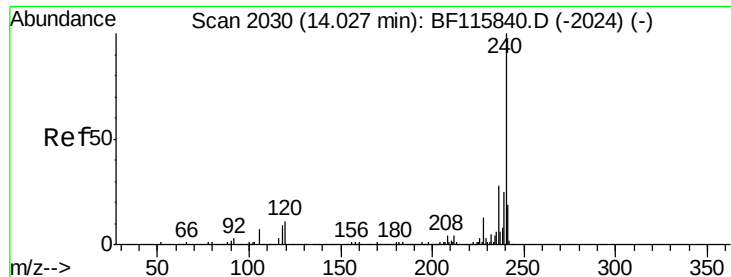
Abundance

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





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

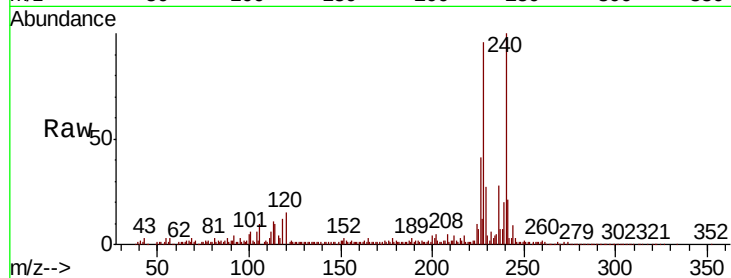
Tot Ion:240 Resp: 300505

Ion Ratio Lower Upper

240 100

120 14.5 10.7 16.1

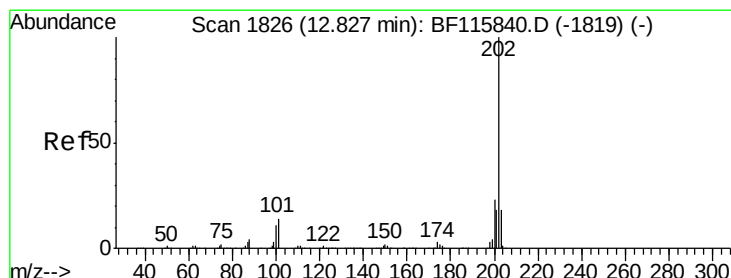
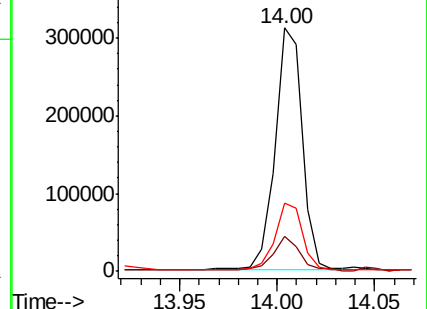
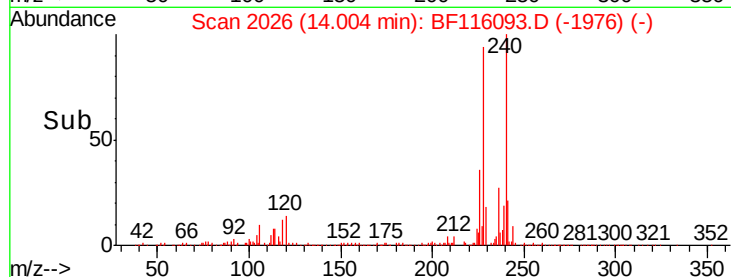
236 28.1 22.2 33.2



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



#78

Pyrene

Concen: 80.785 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

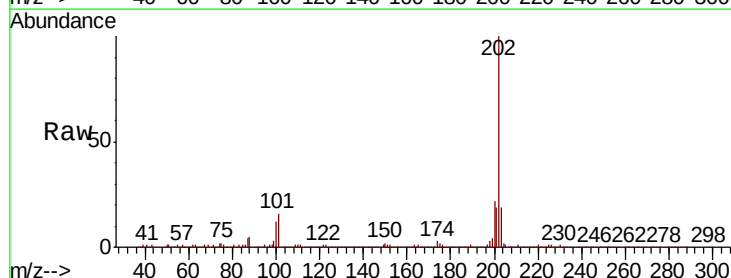
Tgt Ion:202 Resp: 1829971

Ion Ratio Lower Upper

202 100

200 22.4 18.0 27.0

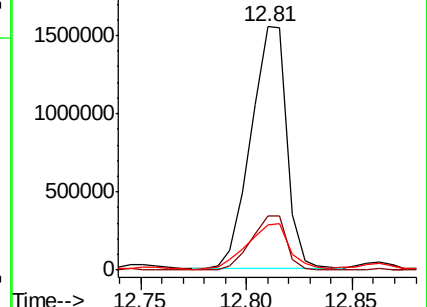
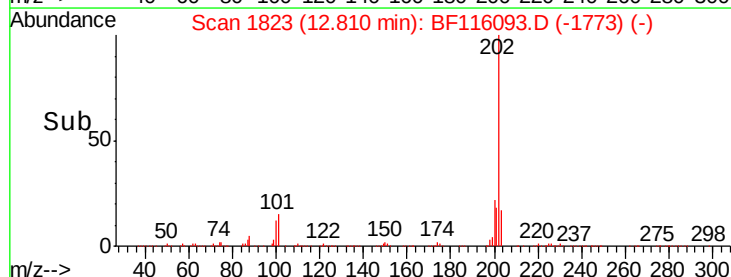
203 18.7 14.1 21.1

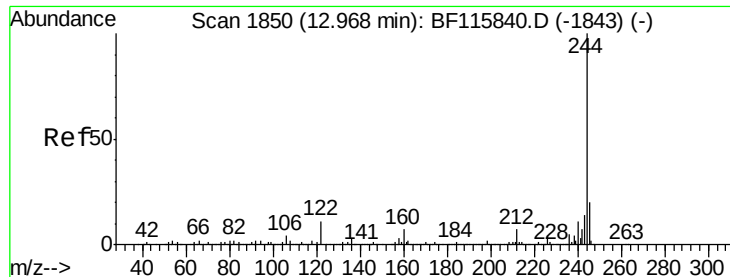


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

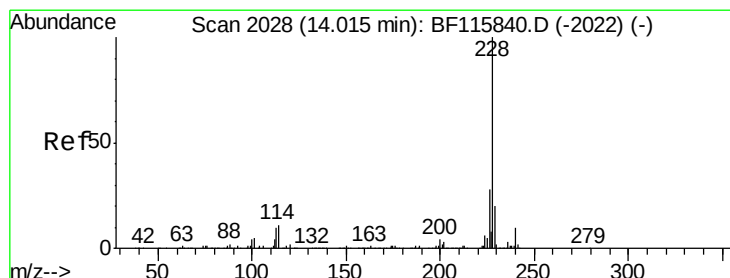
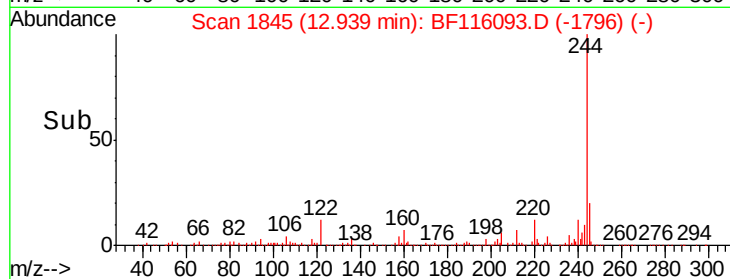
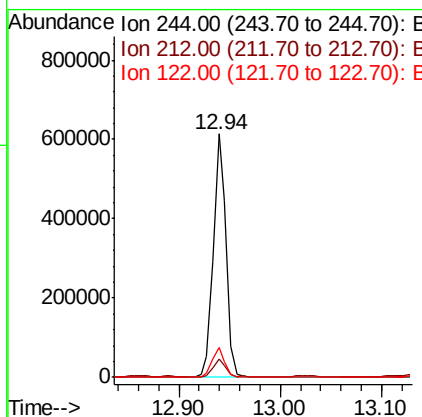
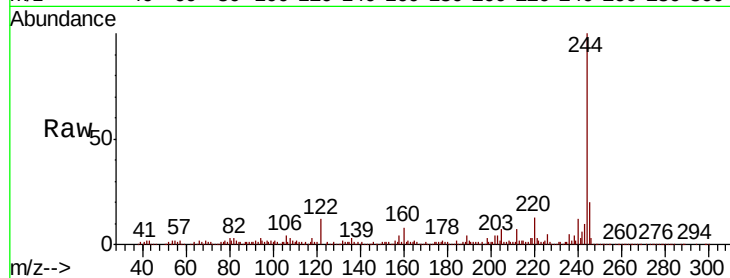




#79
 Terphenyl-d14
 Concen: 37.174 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF116093.D
 Acq: 9 Aug 2019 2:58

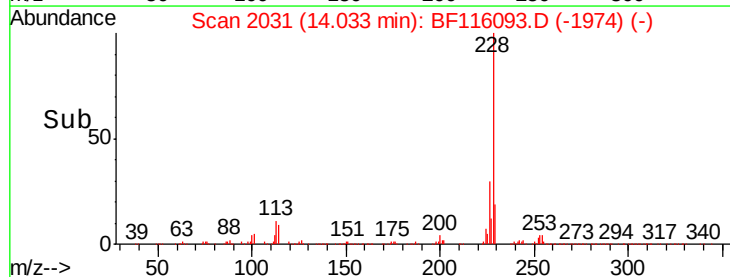
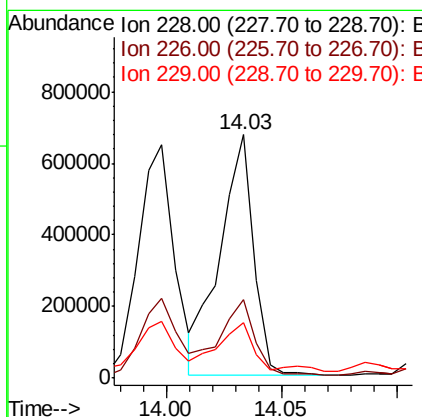
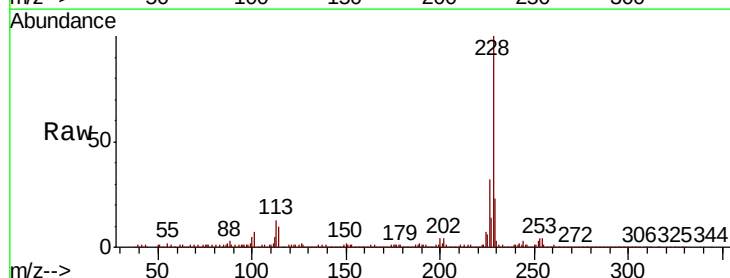
Instrument :
 BNA_F
 ClientSampleId :

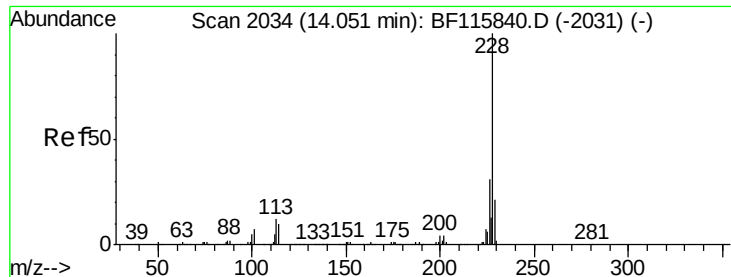
Tot Ion:244 Resp: 530139
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.8 8.8
 122 12.4 9.0 13.4



#81
 Benzo(a)anthracene
 Concen: 35.731 ng
 RT: 14.03 min Scan# 2031
 Delta R.T. 0.04 min
 Lab File: BF116093.D
 Acq: 9 Aug 2019 2:58

Tgt Ion:228 Resp: 686302
 Ion Ratio Lower Upper
 228 100
 226 32.3 22.7 34.1
 229 22.8 16.2 24.4

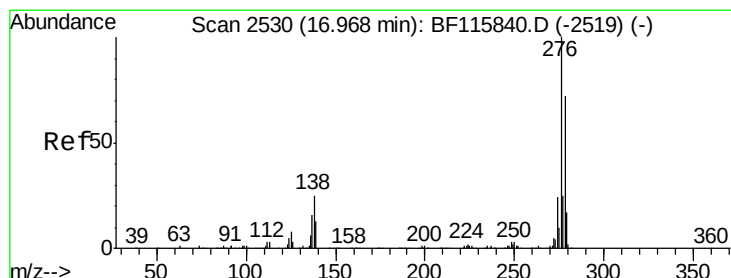
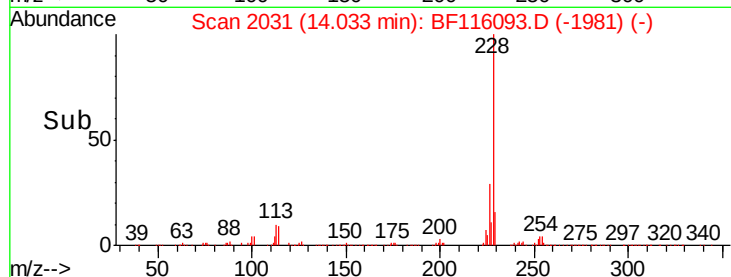
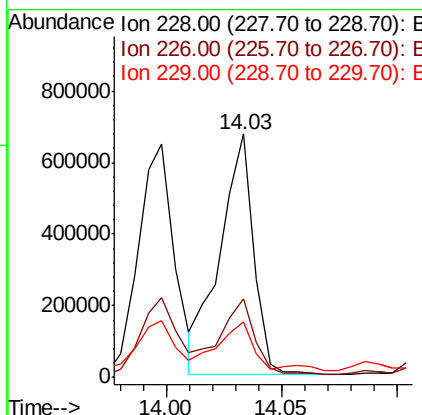
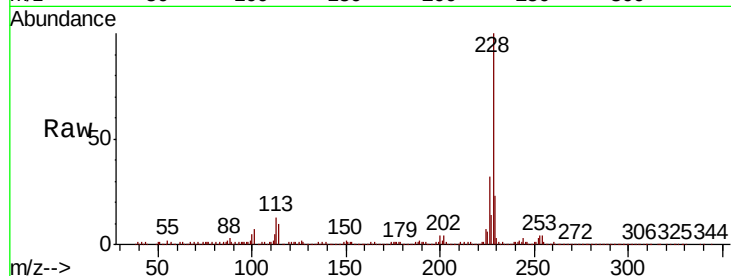




#83
Chrysene
Concen: 36.805 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF116093.D
Acq: 9 Aug 2019 2:58

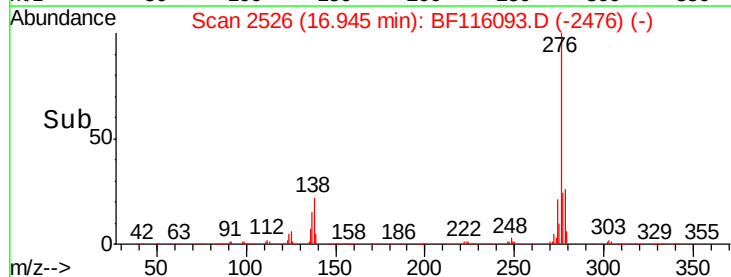
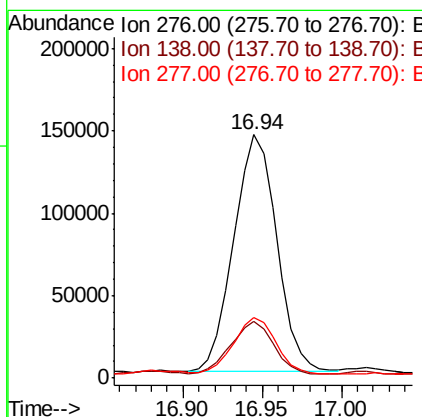
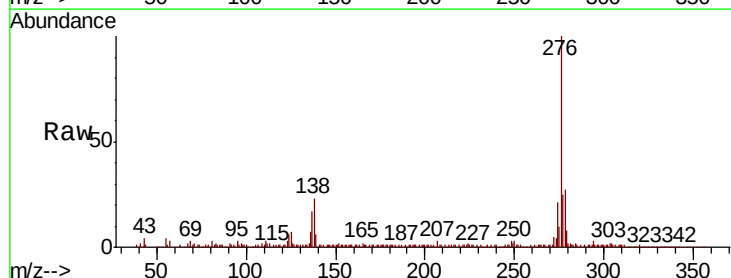
Instrument :
BNA_F
ClientSampled :

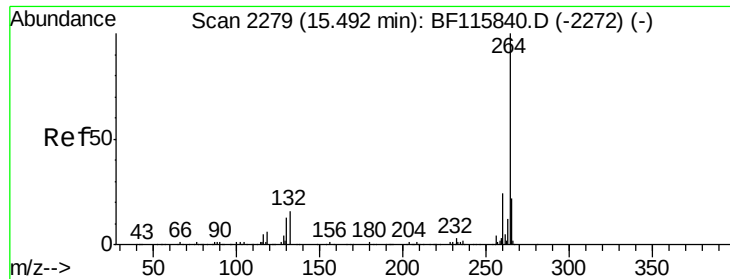
Tot Ion:228	Resp:	686302
Ion	Ratio	Lower Upper
228	100	
226	32.3	25.5 38.3
229	22.8	16.6 24.8



#86
Indeno(1,2,3-cd)pyrene
Concen: 17.374 ng
RT: 16.94 min Scan# 2526
Delta R.T. -0.01 min
Lab File: BF116093.D
Acq: 9 Aug 2019 2:58

Tgt Ion:276	Resp:	272103
Ion	Ratio	Lower Upper
276	100	
138	21.7	20.4 30.6
277	23.8	20.0 30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.00 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

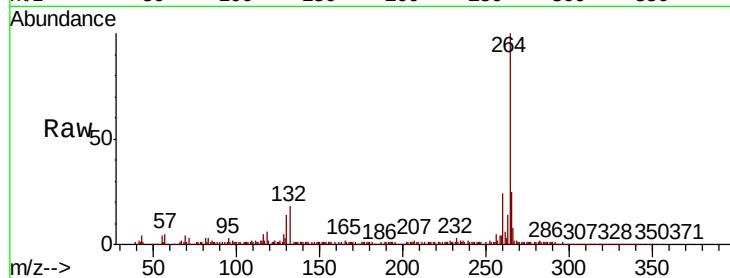
Tot Ion:264 Resp: 320682

Ion Ratio Lower Upper

264 100

260 24.5 19.7 29.5

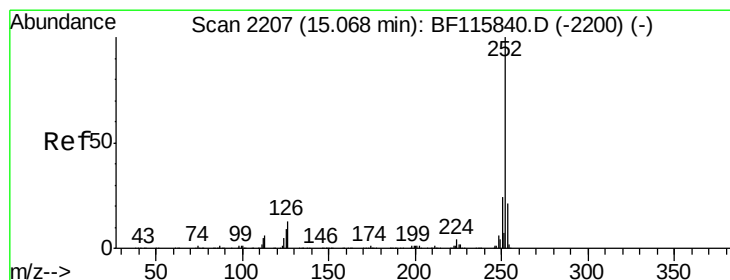
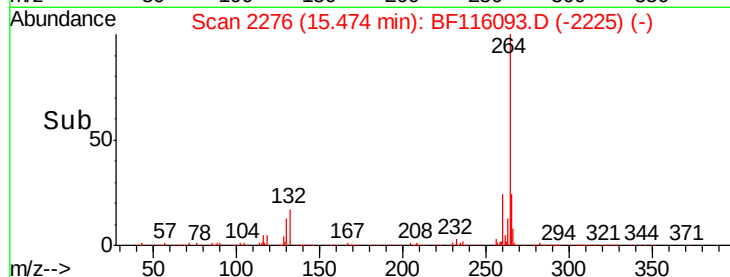
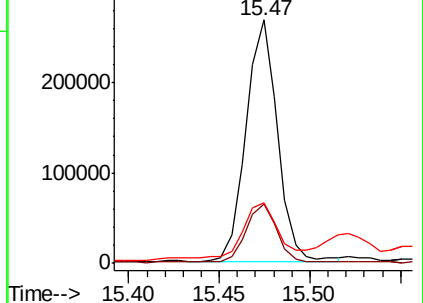
265 24.7 17.4 26.0



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



#88

Benzo(b)fluoranthene

Concen: 39.140 ng

RT: 15.05 min Scan# 2204

Delta R.T. 0.00 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

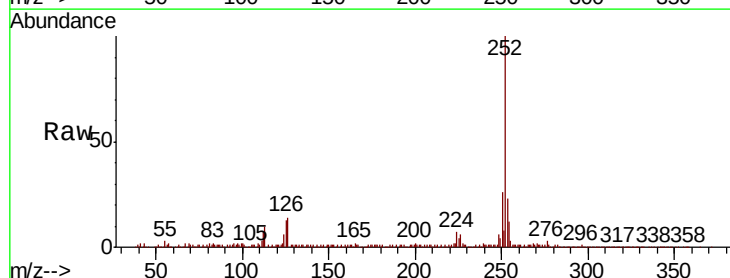
Tgt Ion:252 Resp: 725749

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

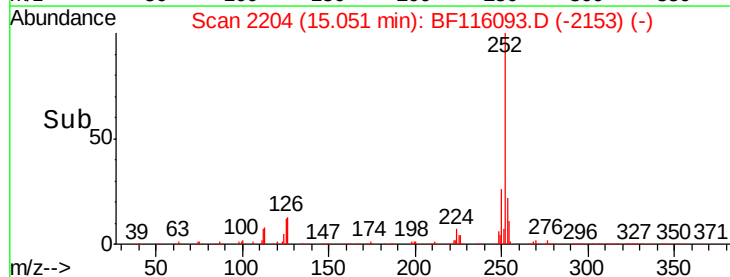
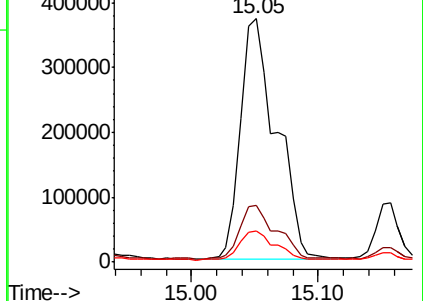
125 12.7 8.4 12.6#

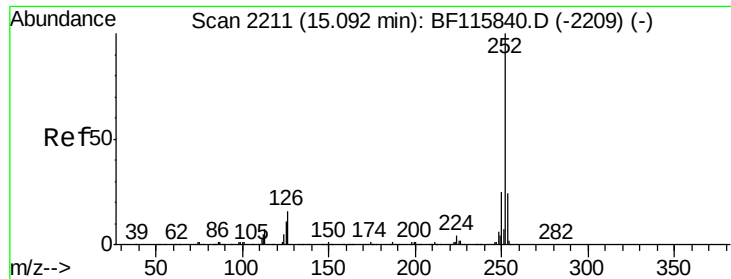


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 40.185 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.03 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampleId :

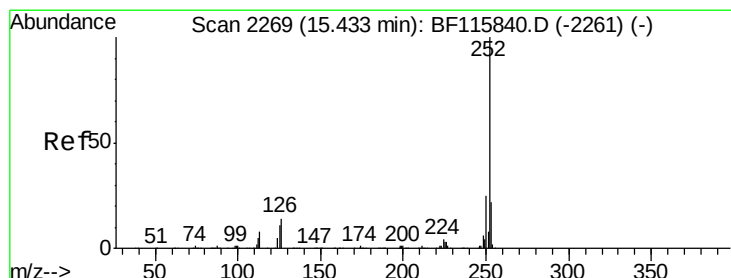
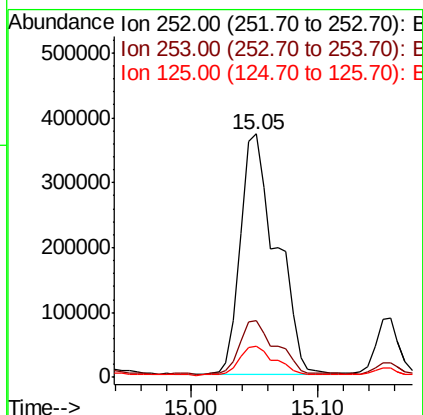
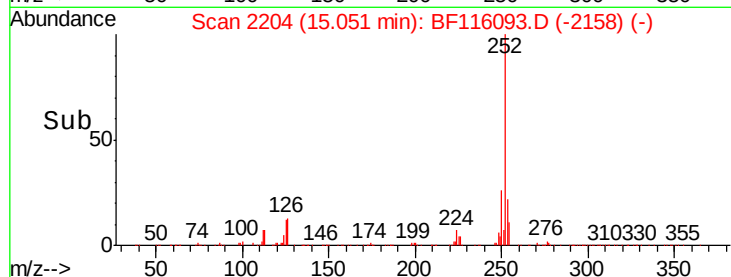
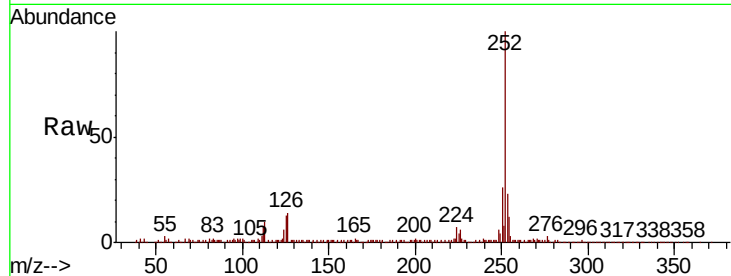
Tot Ion:252 Resp: 725749

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

125 12.7 7.7 11.5#



#90

Benzo(a)pyrene

Concen: 35.191 ng

RT: 15.42 min Scan# 2266

Delta R.T. 0.00 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

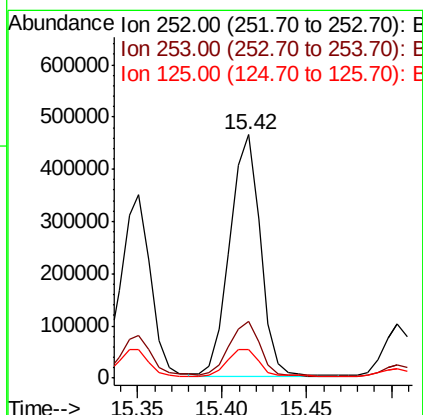
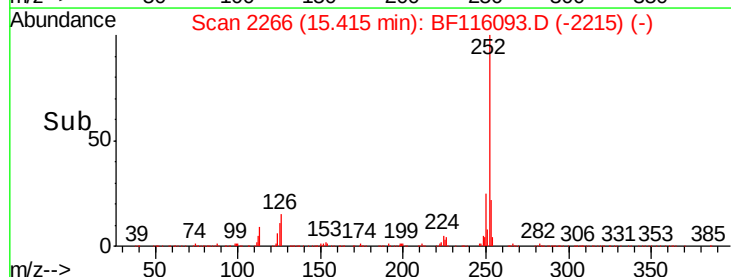
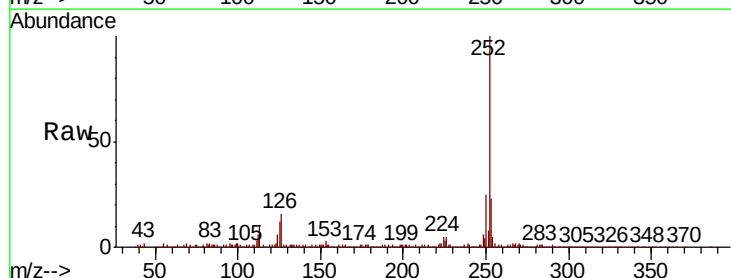
Tgt Ion:252 Resp: 583302

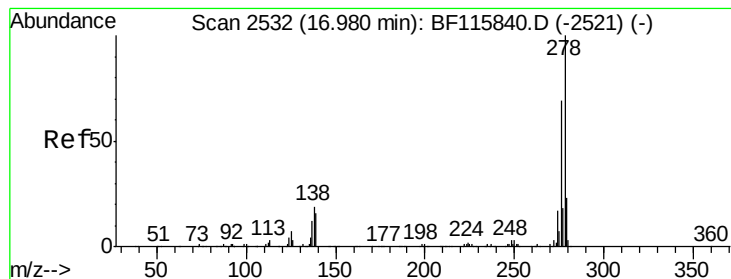
Ion Ratio Lower Upper

252 100

253 23.1 18.0 27.0

125 12.0 8.9 13.3





#91

Dibenzo(a,h)anthracene

Concen: 5.763 ng

RT: 16.94 min Scan# 2526

Delta R.T. -0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Instrument :

BNA_F

ClientSampled :

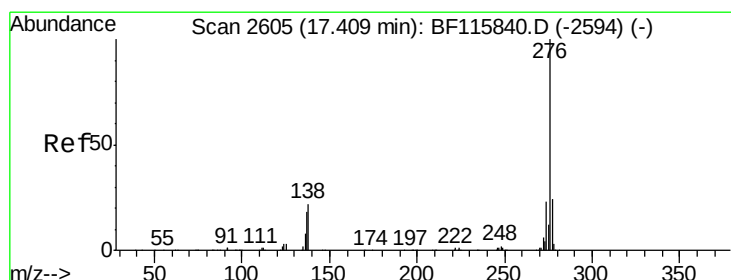
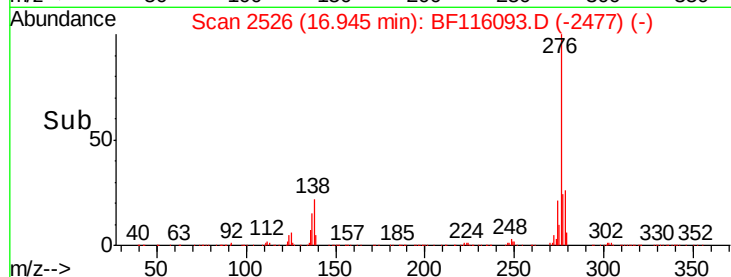
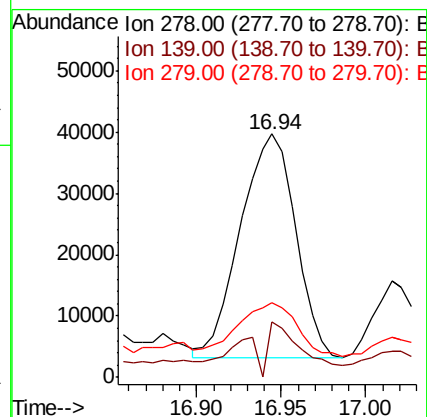
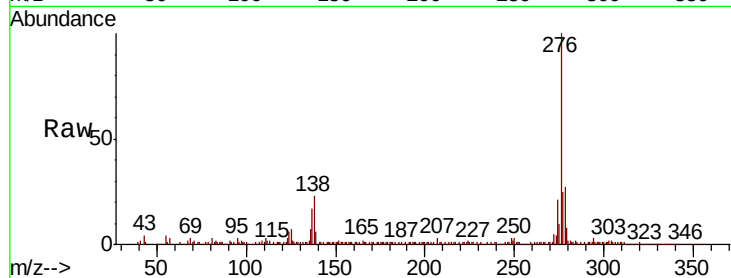
Tot Ion:278 Resp: 82683

Ion Ratio Lower Upper

278 100

139 22.8 12.8 19.2#

279 30.5 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 30.355 ng

RT: 17.39 min Scan# 2602

Delta R.T. 0.01 min

Lab File: BF116093.D

Acq: 9 Aug 2019 2:58

Tgt Ion:276 Resp: 427721

Ion Ratio Lower Upper

276 100

277 24.0 18.4 27.6

138 22.3 17.0 25.6

