

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089025.D
 Acq On : 15 Jul 2016 19:28
 Operator : UM/SJ
 Sample : H3951-08 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB03(0-2ft)

Quant Time: Jul 16 01:41:03 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 16 00:31:51 2016
 Response via : Initial Calibration

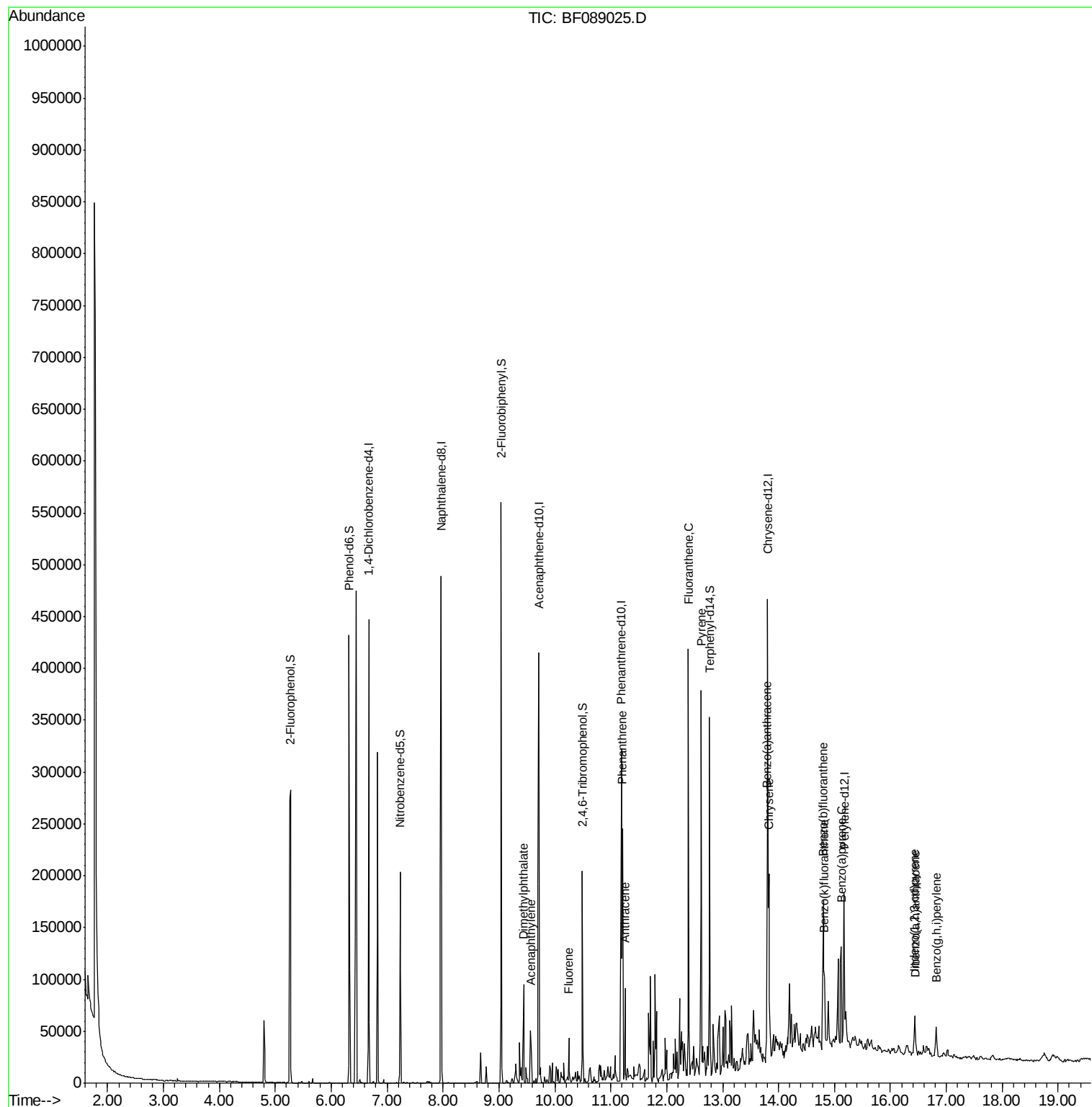
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	59408	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	235308	20.00	ng	0.00
38) Acenaphthene-d10	9.71	164	88776	20.00	ng	0.00
63) Phenanthrene-d10	11.19	188	131508	20.00	ng	0.00
75) Chrysene-d12	13.81	240	102698	20.00	ng	-0.01
86) Perylene-d12	15.18	264	75413	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	114965	29.00	ng	0.00
7) Phenol-d6	6.32	99	137306	26.81	ng	-0.01
23) Nitrobenzene-d5	7.23	82	79223	17.64	ng	-0.01
41) 2,4,6-Tribromophenol	10.49	330	15983	19.39	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	153483	27.31	ng	0.00
78) Terphenyl-d14	12.77	244	89857	19.49	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	9.56	152	25561	2.78	ng	98
49) Dimethylphthalate	9.44	163	40210	6.36	ng	98
57) Fluorene	10.25	166	13193	2.32	ng	98
70) Phenanthrene	11.21	178	104784	14.58	ng	96
71) Anthracene	11.26	178	32506	4.55	ng	99
74) Fluoranthene	12.39	202	142054	19.49	ng	98
77) Pyrene	12.62	202	157264	18.06	ng	99
80) Benzo(a)anthracene	13.79	228	82253	12.44	ng	# 91
82) Chrysene	13.83	228	57871m	8.85	ng	
85) Indeno(1,2,3-cd)pyrene	16.43	276	24662	4.90	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	63216m	13.36	ng	
88) Benzo(k)fluoranthene	14.82	252	20791m	5.05	ng	
89) Benzo(a)pyrene	15.12	252	44597m	11.13	ng	
90) Dibenzo(a,h)anthracene	16.45	278	9767	2.92	ng	# 90
91) Benzo(a,h,i)perylene	16.82	276	24143	6.98	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

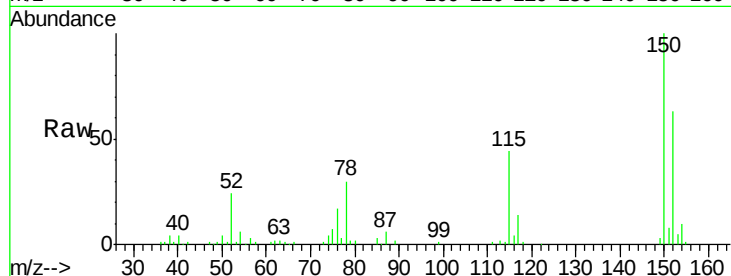
Tot Ion:152 Resp: 59408

Ion Ratio Lower Upper

152 100

150 159.8 123.8 185.6

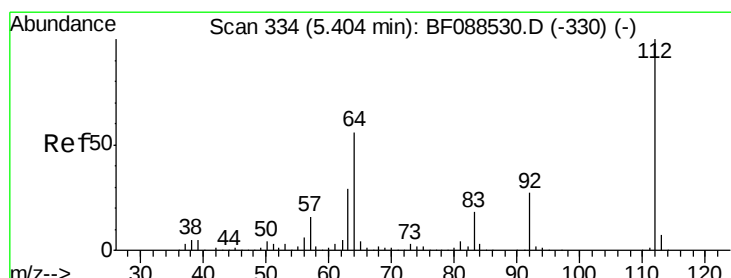
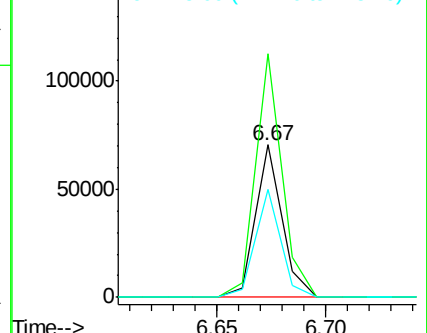
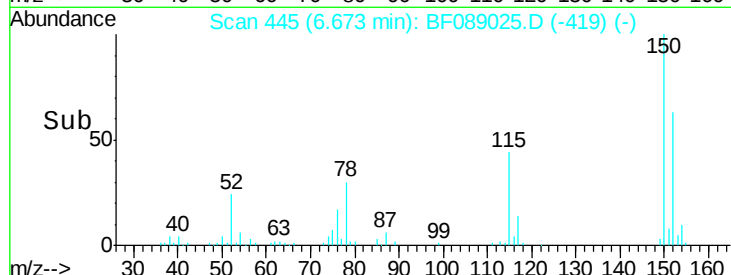
115 70.6 39.6 59.4#



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: 29.00 ng

RT: 5.27 min Scan# 322

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

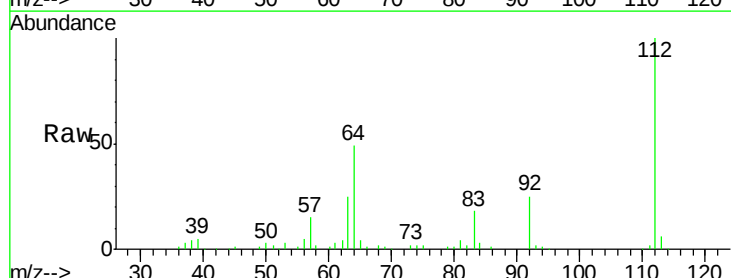
Tgt Ion:112 Resp: 114965

Ion Ratio Lower Upper

112 100

64 48.7 42.2 63.2

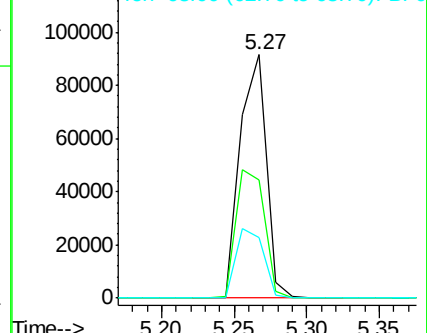
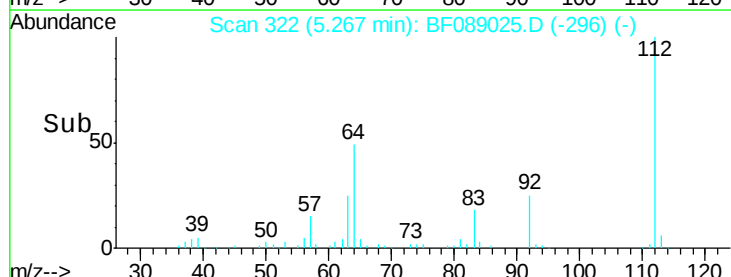
63 24.7 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 26.81 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

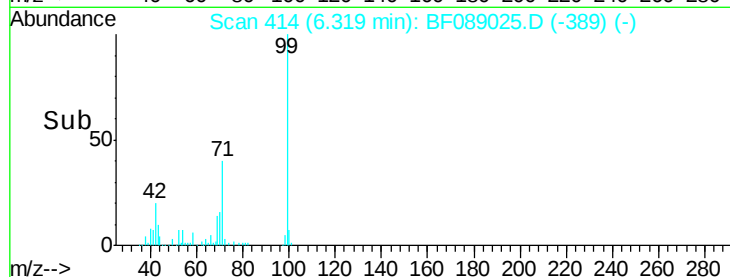
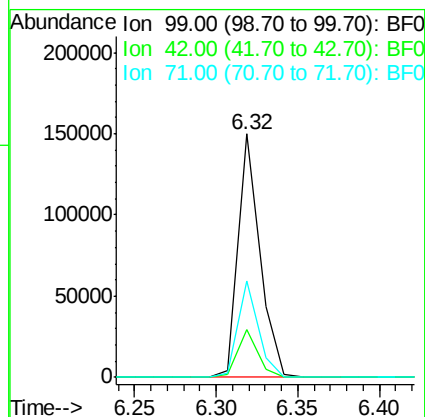
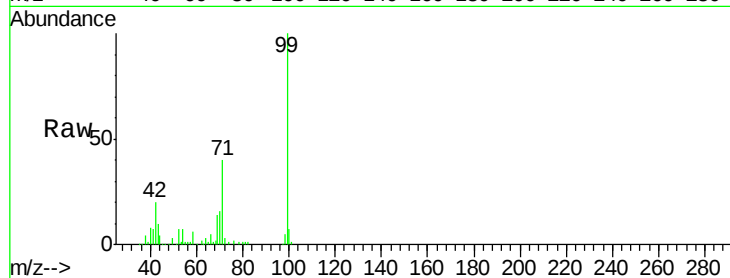
Tot Ion: 99 Resp: 137306

Ion Ratio Lower Upper

99 100

42 19.5 12.2 18.2#

71 39.7 23.4 35.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Tgt Ion: 136 Resp: 235308

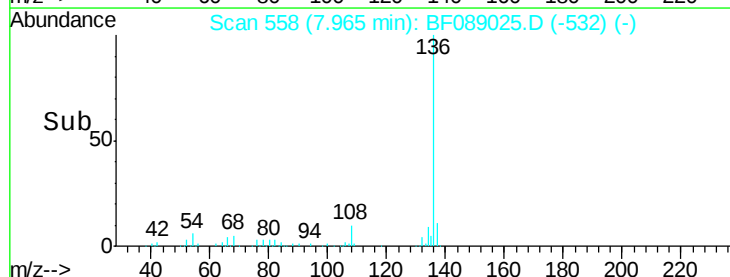
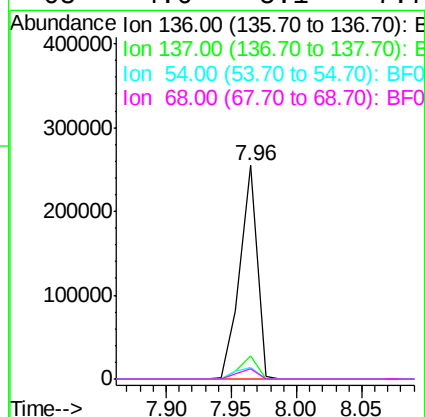
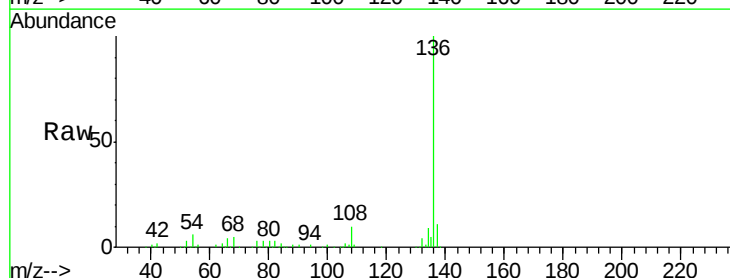
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.6 6.6 10.0#

68 4.6 5.1 7.7#





#23

Nitrobenzene-d5

Concen: 17.64 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

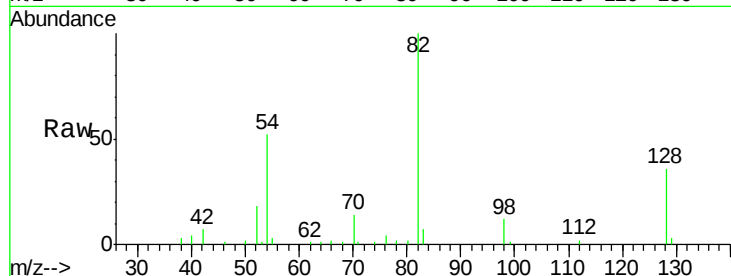
Tot Ion: 82 Resp: 79223

Ion Ratio Lower Upper

82 100

128 36.0 35.9 53.9

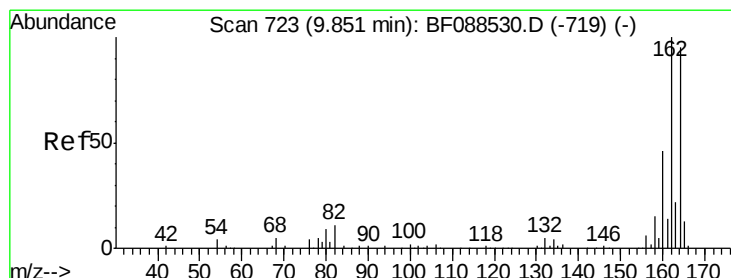
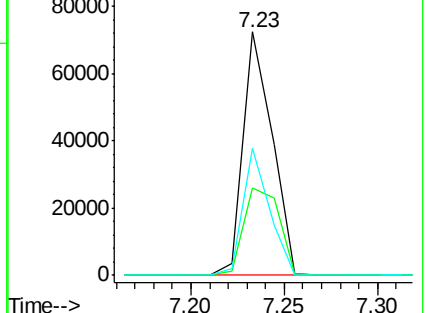
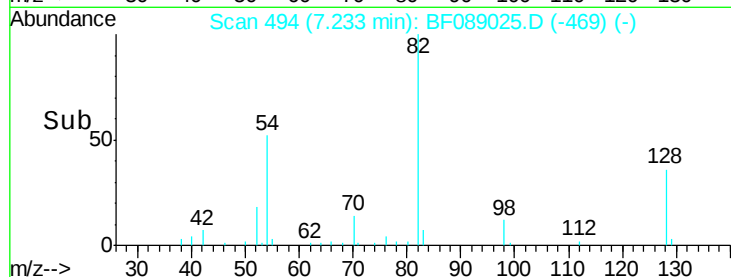
54 52.1 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

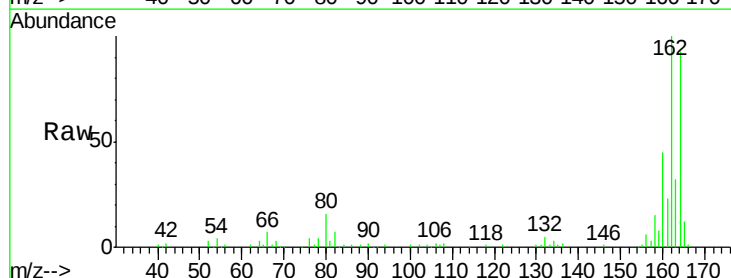
Tgt Ion:164 Resp: 88776

Ion Ratio Lower Upper

164 100

162 107.2 85.4 128.2

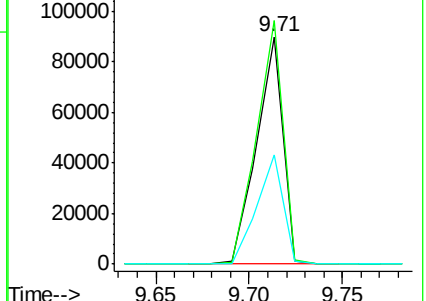
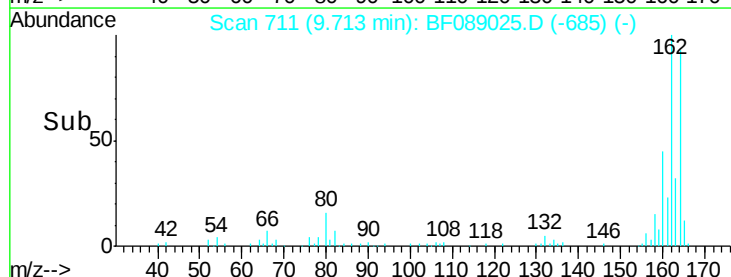
160 48.1 39.5 59.3

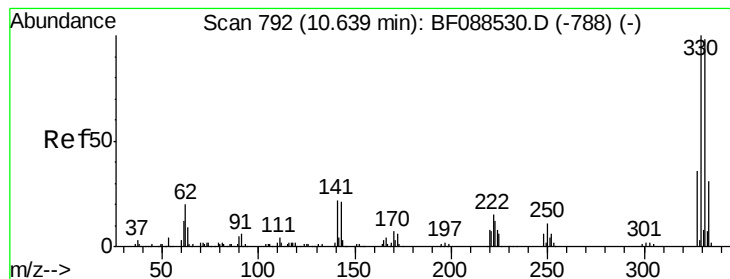


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 19.39 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

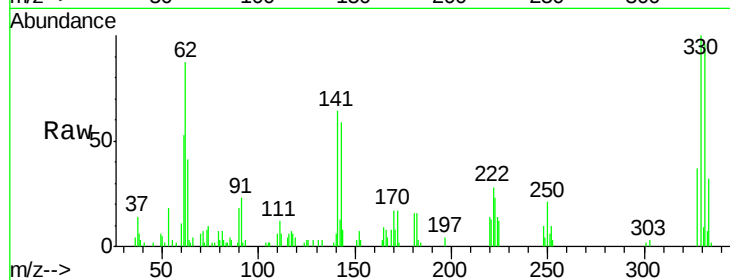
Tot Ion:330 Resp: 15983

Ion Ratio Lower Upper

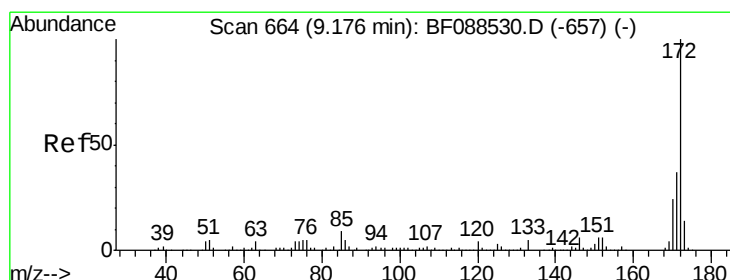
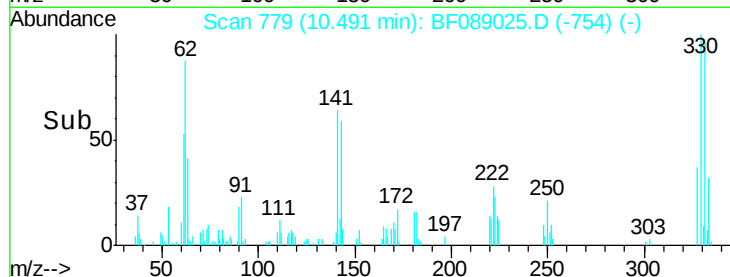
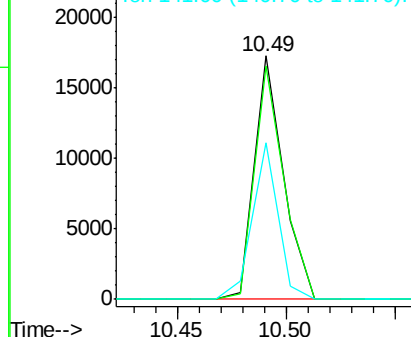
330 100

332 97.1 0.0 0.0#

141 57.3 0.0 0.0#



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: 27.31 ng

RT: 9.04 min Scan# 652

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

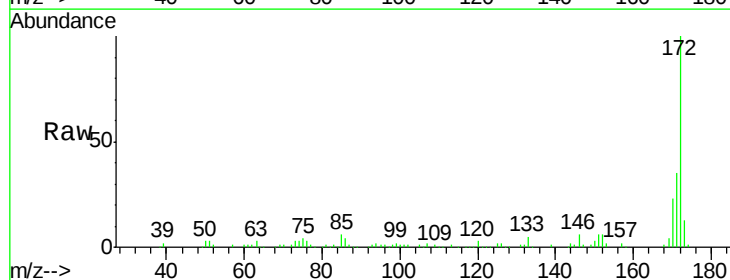
Tgt Ion:172 Resp: 153483

Ion Ratio Lower Upper

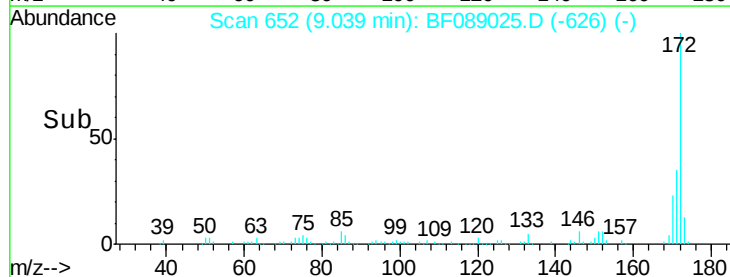
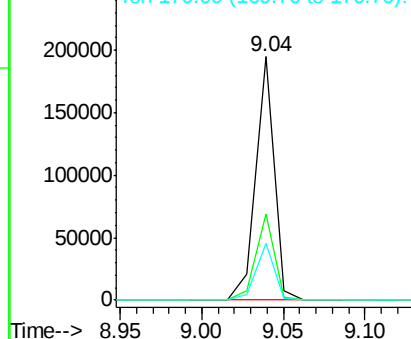
172 100

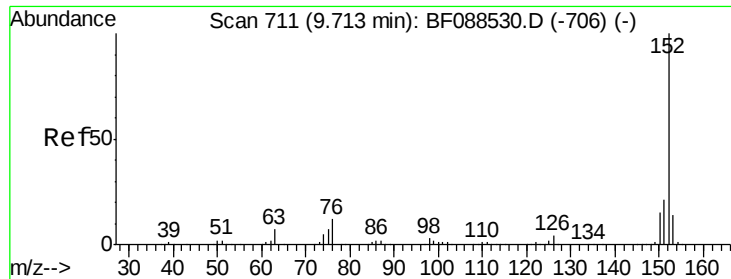
171 35.3 28.6 43.0

170 23.3 19.2 28.8



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: 2.78 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

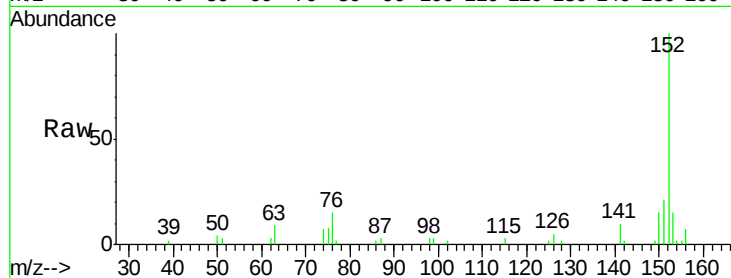
Tot Ion:152 Resp: 25561

Ion Ratio Lower Upper

152 100

151 20.8 16.2 24.4

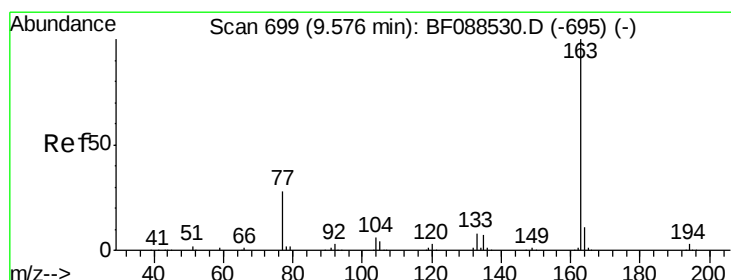
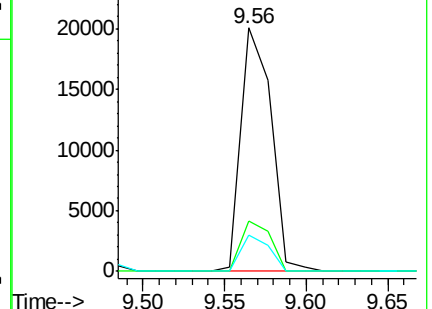
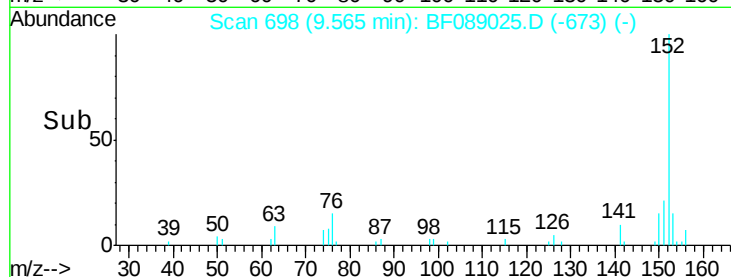
153 14.8 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 6.36 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

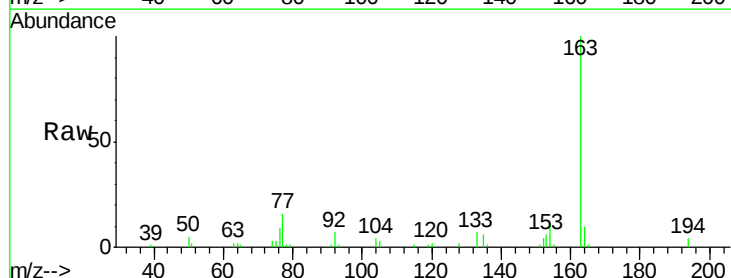
Tgt Ion:163 Resp: 40210

Ion Ratio Lower Upper

163 100

194 3.8 2.8 4.2

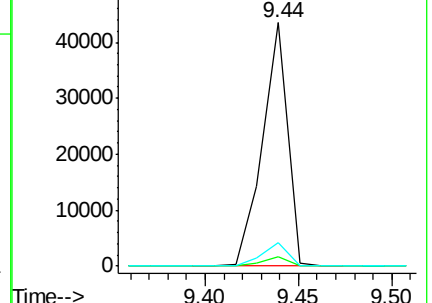
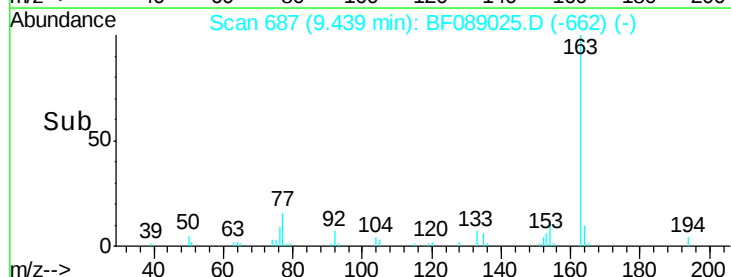
164 9.8 8.3 12.5

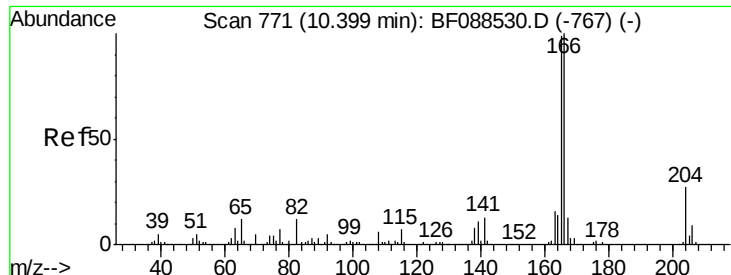


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

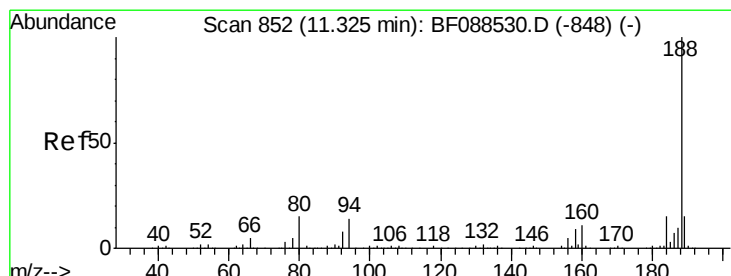
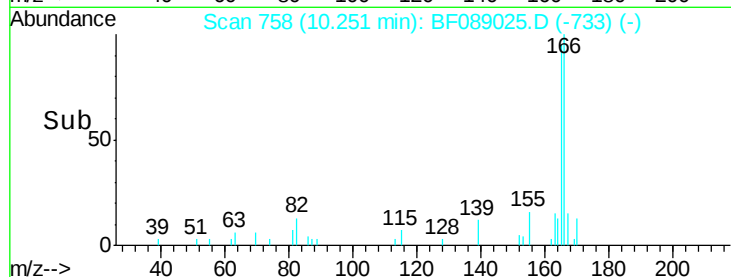
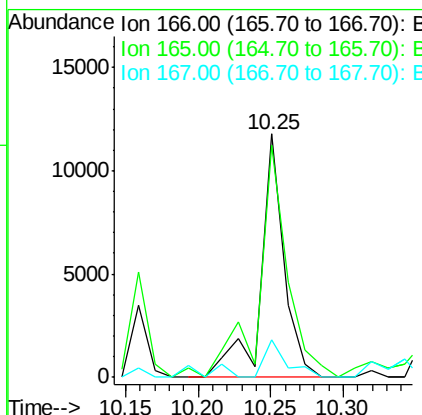
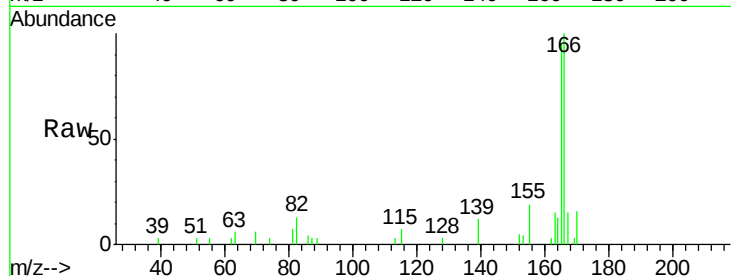




#57
Fluorene
 Concen: 2.32 ng
 RT: 10.25 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

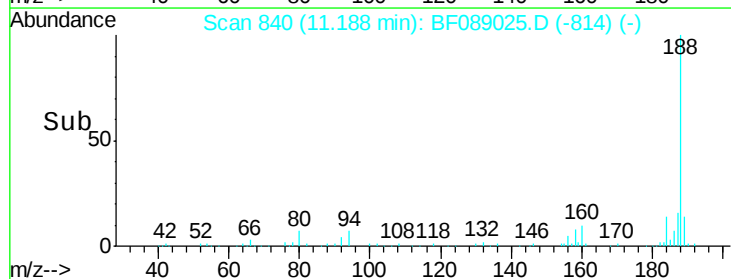
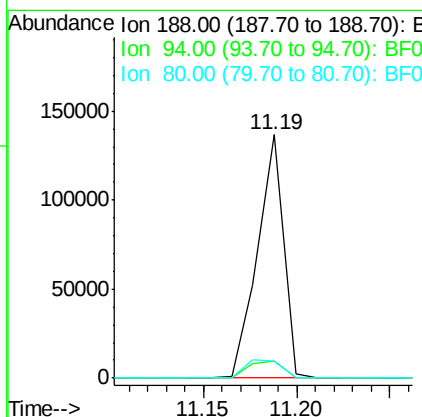
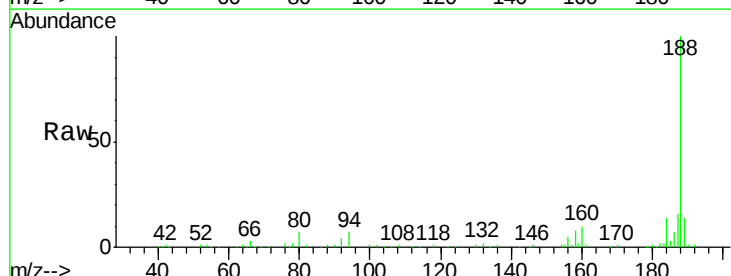
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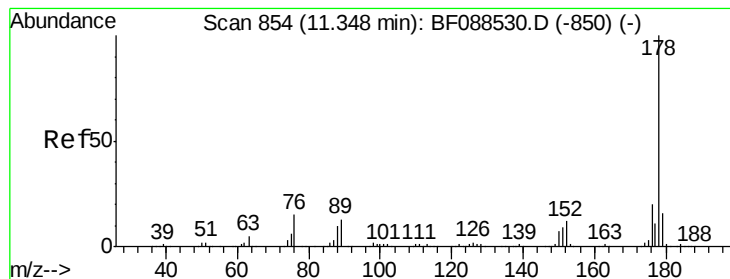
Tot Ion:166 Resp: 13193
 Ion Ratio Lower Upper
 166 100
 165 95.3 77.8 116.8
 167 15.2 11.2 16.8



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.19 min Scan# 840
 Delta R.T. 0.00 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

Tgt Ion:188 Resp: 131508
 Ion Ratio Lower Upper
 188 100
 94 6.8 9.0 13.6#
 80 7.2 10.0 15.0#





#70

Phenanthrene

Concen: 14.58 ng

RT: 11.21 min Scan# 842

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

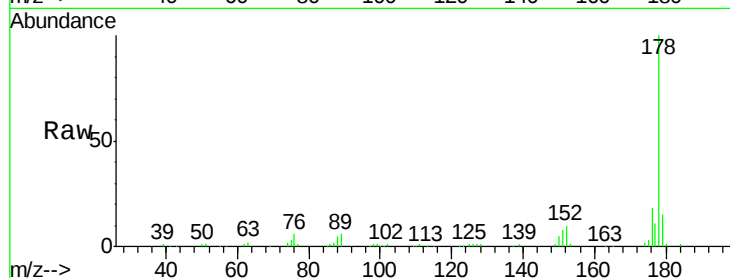
Tot Ion:178 Resp: 104784

Ion Ratio Lower Upper

178 100

176 17.9 15.8 23.6

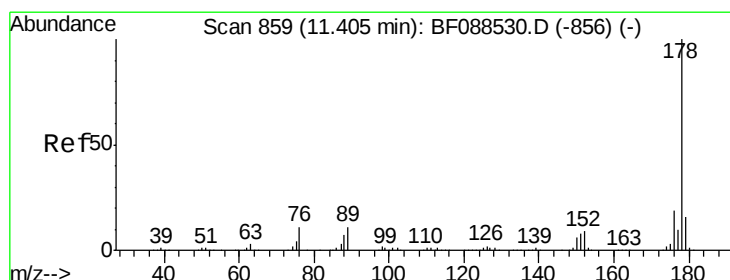
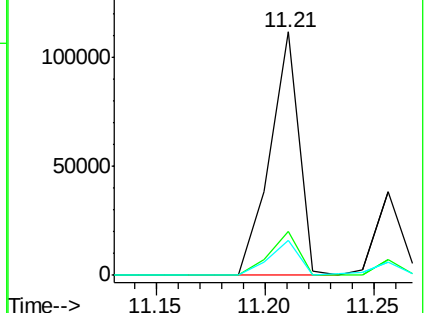
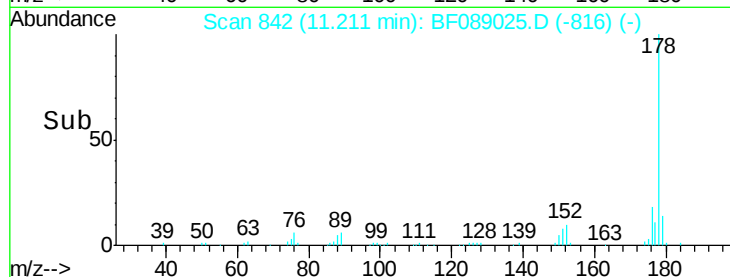
179 14.6 13.0 19.4



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: 4.55 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

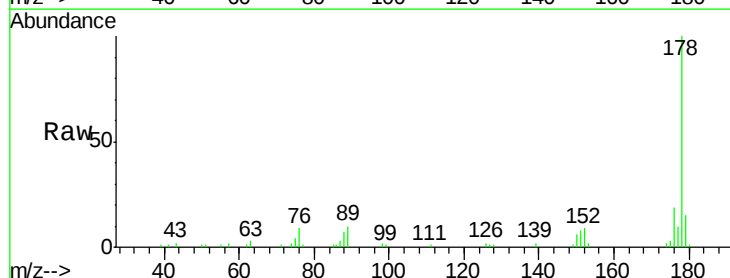
Tgt Ion:178 Resp: 32506

Ion Ratio Lower Upper

178 100

176 19.0 15.6 23.4

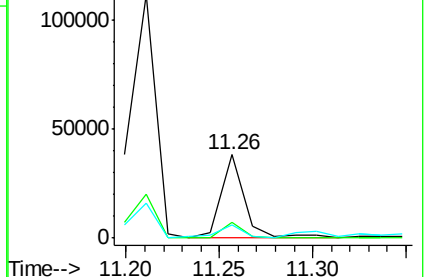
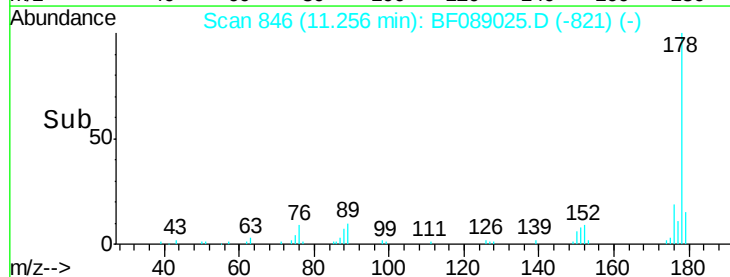
179 15.4 12.8 19.2

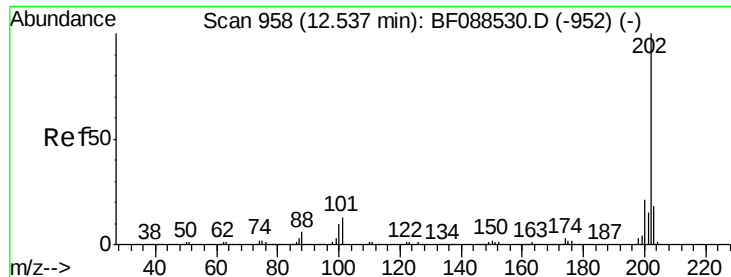


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.49 ng

RT: 12.39 min Scan# 945

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

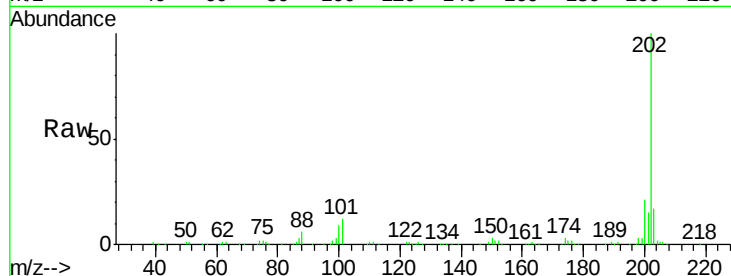
Tot Ion:202 Resp: 142054

Ion Ratio Lower Upper

202 100

101 12.1 0.0 33.1

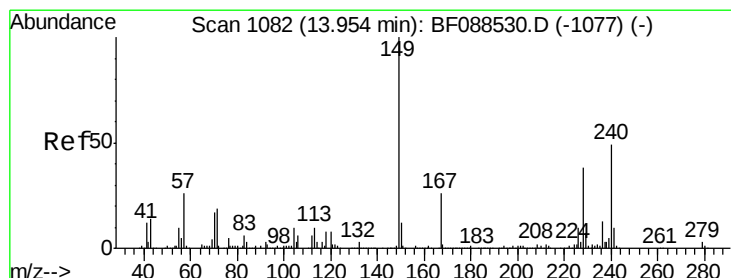
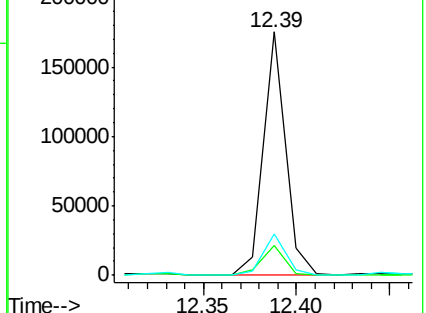
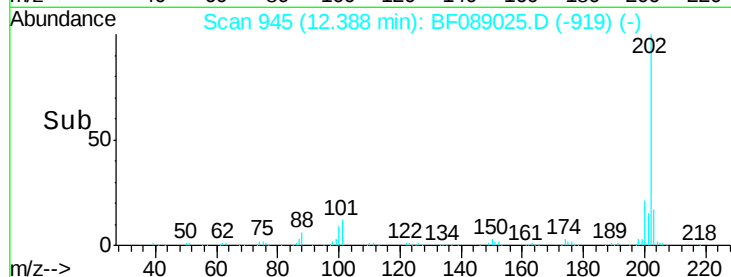
203 17.2 0.0 38.1



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: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

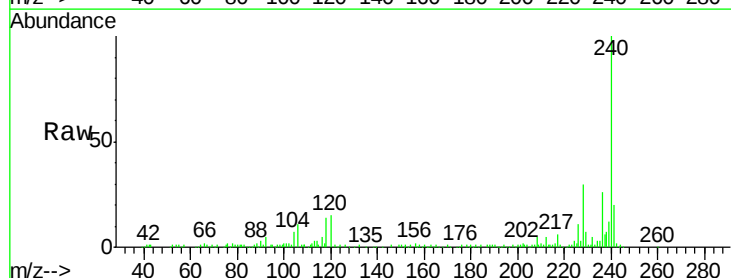
Tgt Ion:240 Resp: 102698

Ion Ratio Lower Upper

240 100

120 14.6 6.8 10.2#

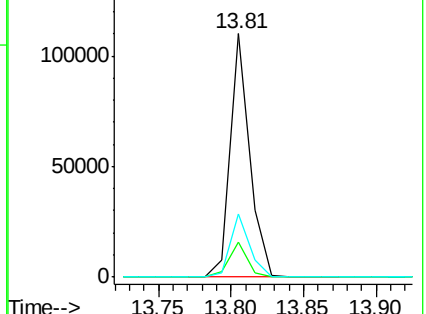
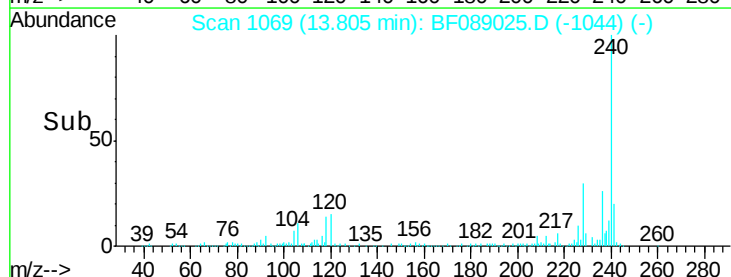
236 25.8 20.2 30.2

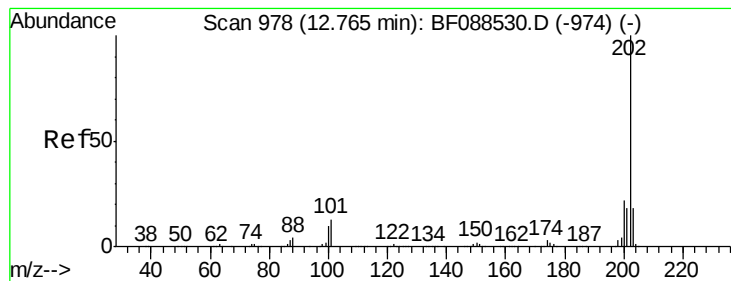


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 18.06 ng

RT: 12.62 min Scan# 965

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

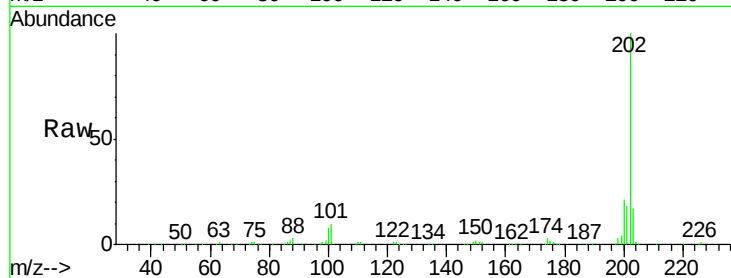
Tot Ion:202 Resp: 157264

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

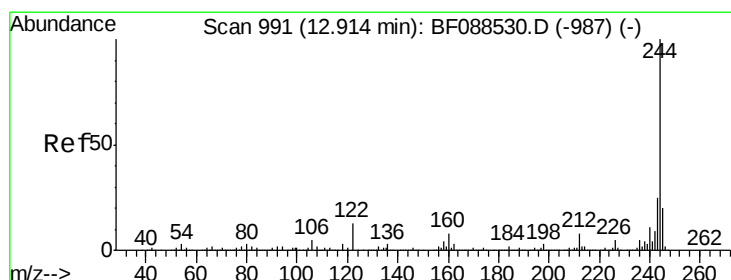
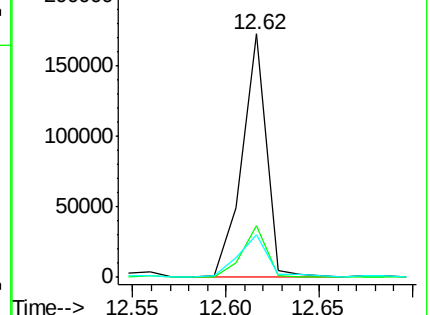
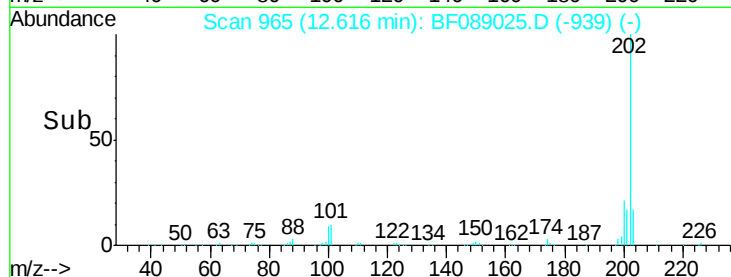
203 17.4 14.5 21.7



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



#78

Terphenyl-d14

Concen: 19.49 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

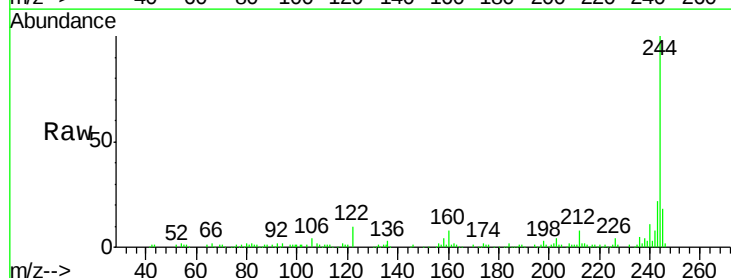
Tgt Ion:244 Resp: 89857

Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

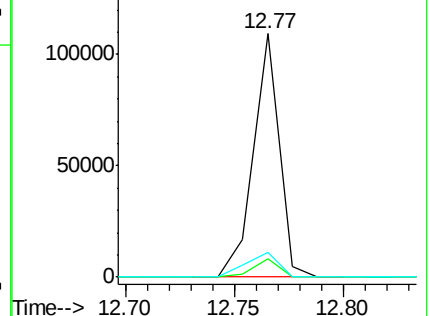
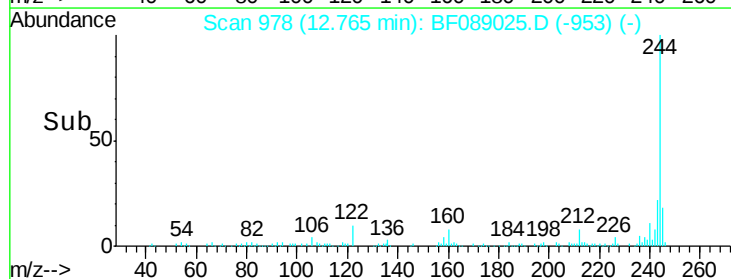
122 10.2 11.2 16.8#

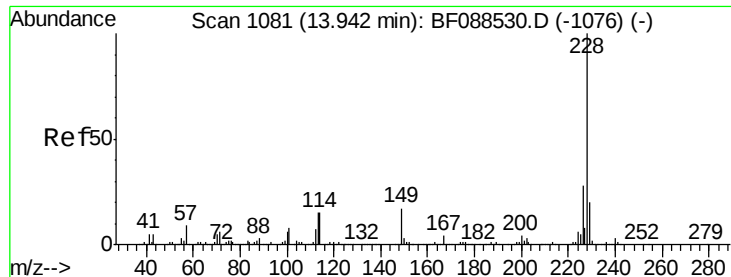


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.44 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

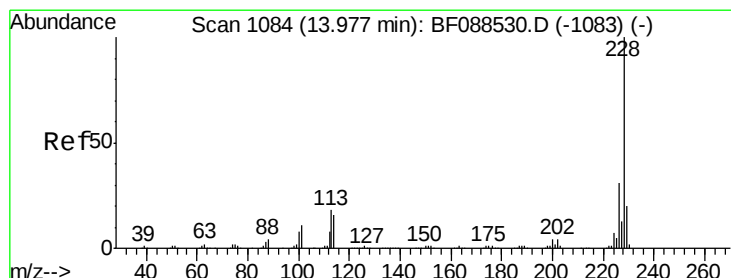
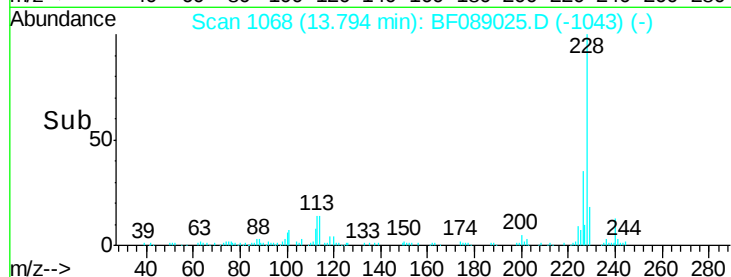
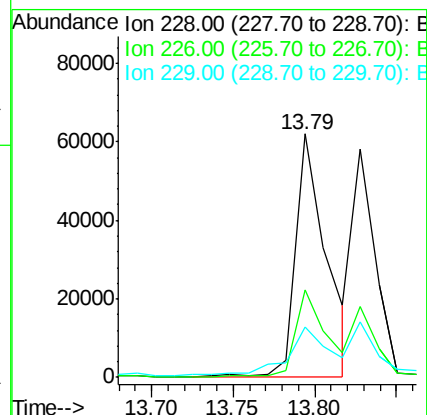
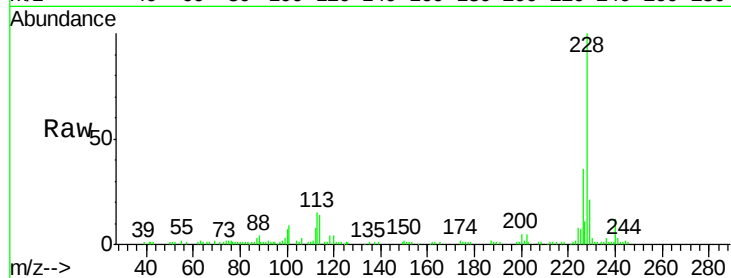
Tot Ion:228 Resp: 82253

Ion Ratio Lower Upper

228 100

226 35.9 22.3 33.5#

229 20.6 16.0 24.0



#82

Chrysene

Concen: 8.85 ng m

RT: 13.83 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

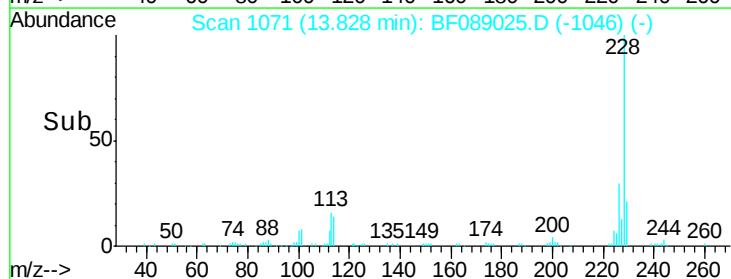
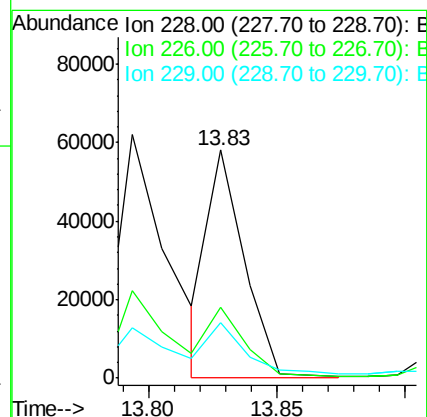
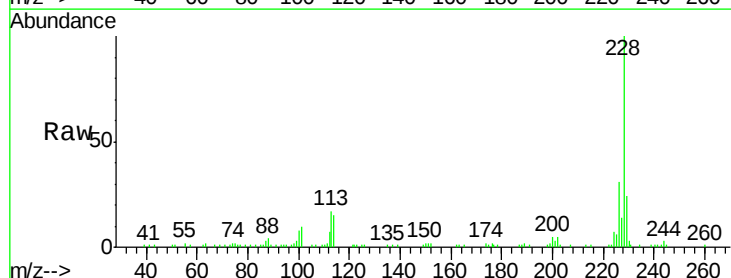
Tgt Ion:228 Resp: 57871

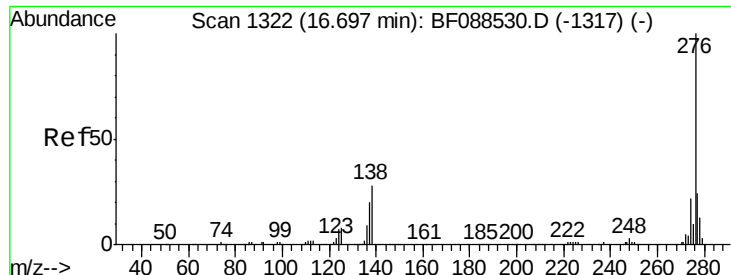
Ion Ratio Lower Upper

228 100

226 31.1 25.4 38.2

229 24.5 16.3 24.5#

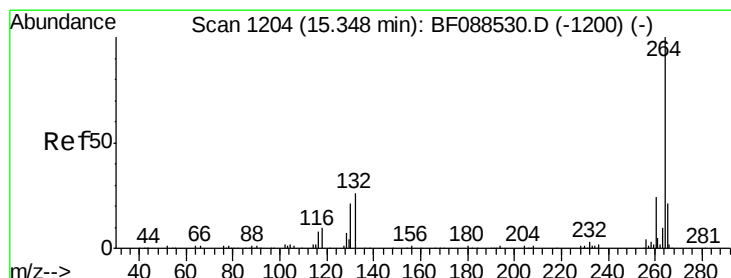
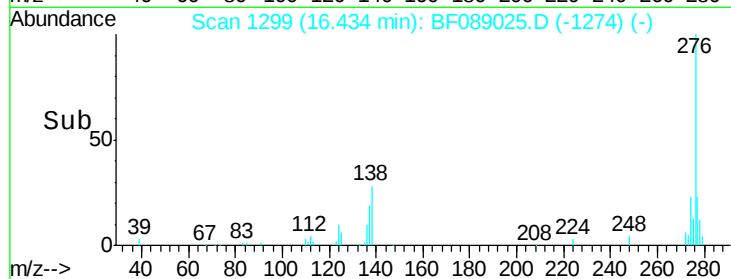
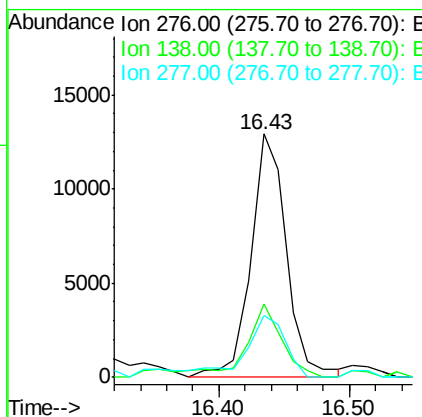
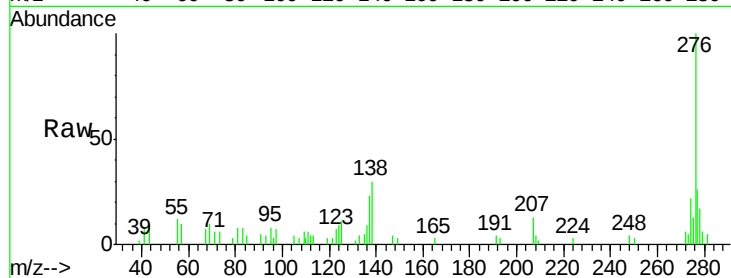




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.90 ng
 RT: 16.43 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

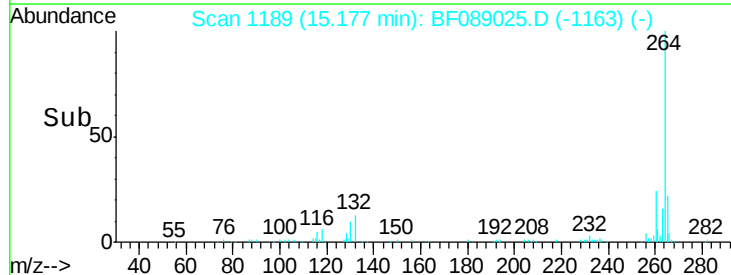
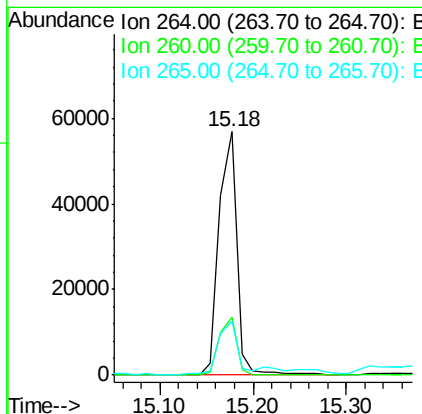
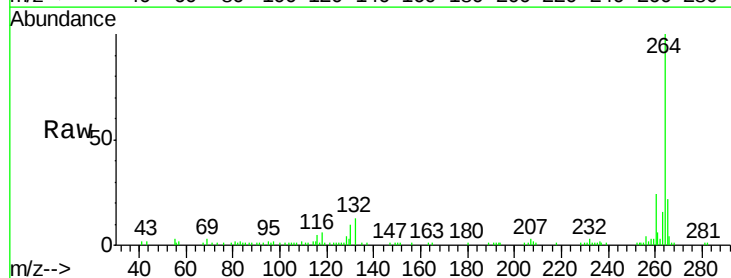
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB03(0-2ft)

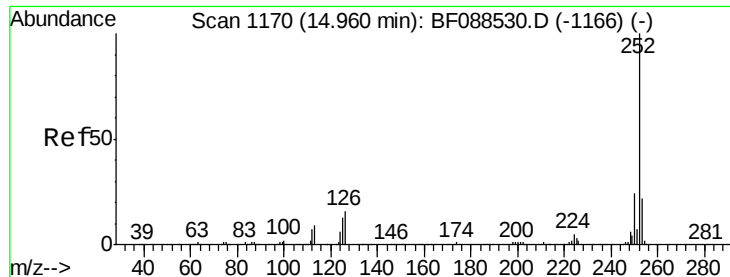
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.7	0.0	0.0#
277	28.0	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.1	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 13.36 ng m

RT: 14.80 min Scan# 1156

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

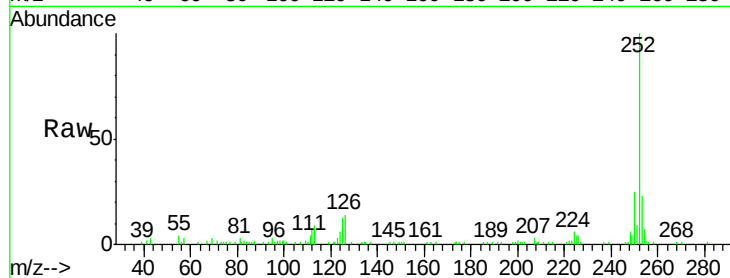
Tot Ion:252 Resp: 63216

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

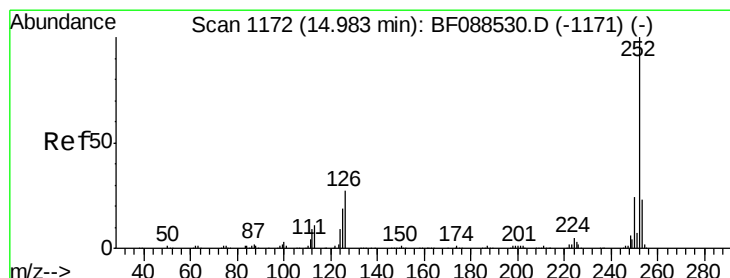
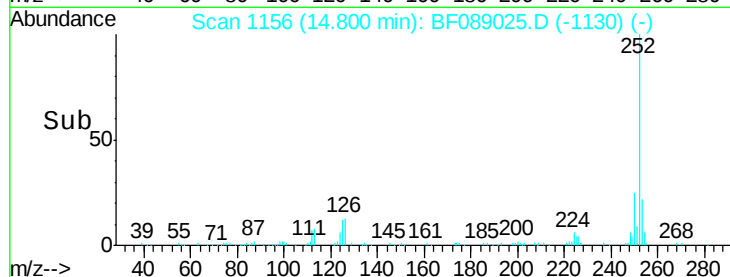
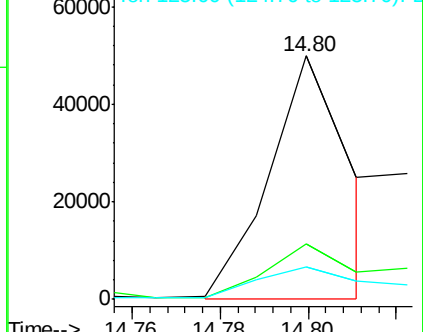
125 13.3 7.1 10.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 5.05 ng m

RT: 14.82 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

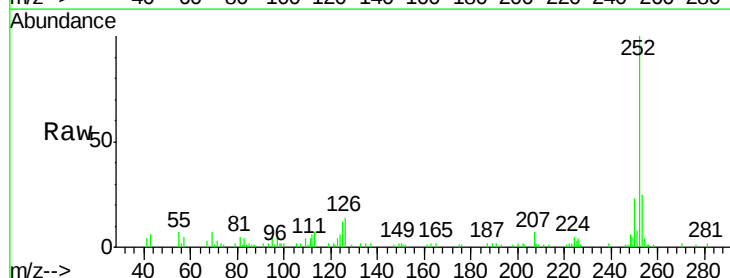
Tgt Ion:252 Resp: 20791

Ion Ratio Lower Upper

252 100

253 24.6 18.0 27.0

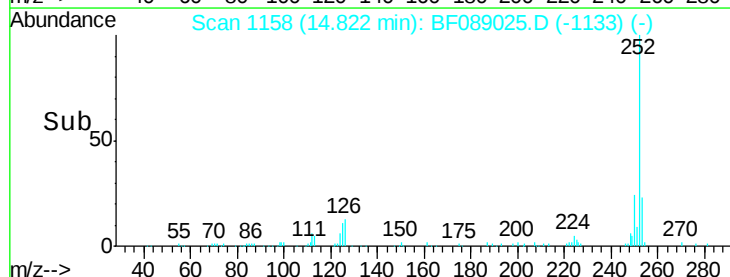
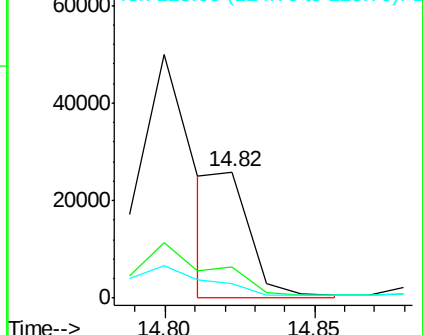
125 12.0 11.2 16.8

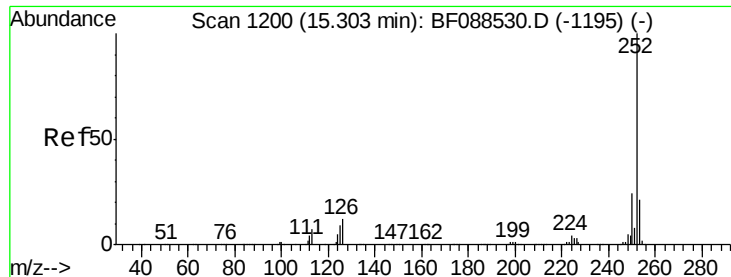


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 11.13 ng/mL

RT: 15.12 min Scan# 1184

Delta R.T. 0.00 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

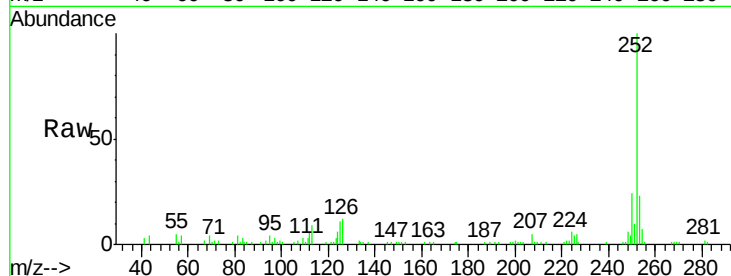
Tot Ion:252 Resp: 44597

Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

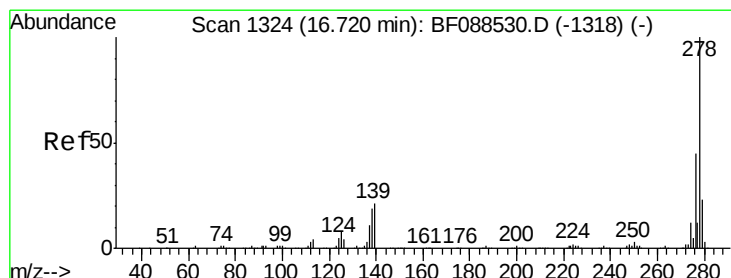
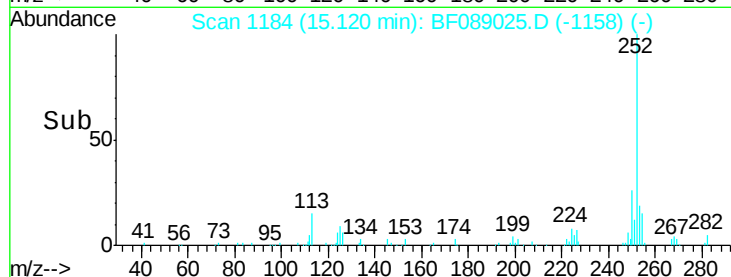
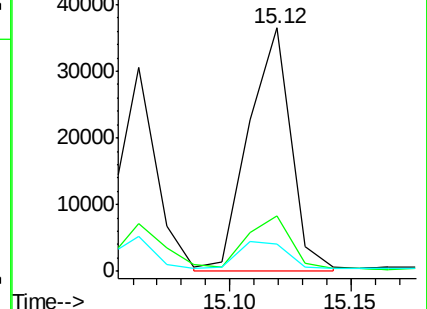
125 11.1 12.5 18.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.92 ng/mL

RT: 16.45 min Scan# 1300

Delta R.T. -0.02 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

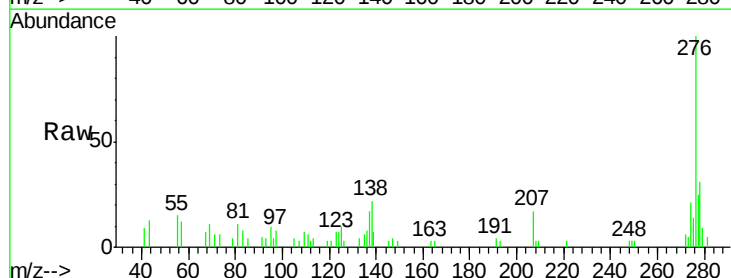
Tgt Ion:278 Resp: 9767

Ion Ratio Lower Upper

278 100

139 23.3 15.7 23.5

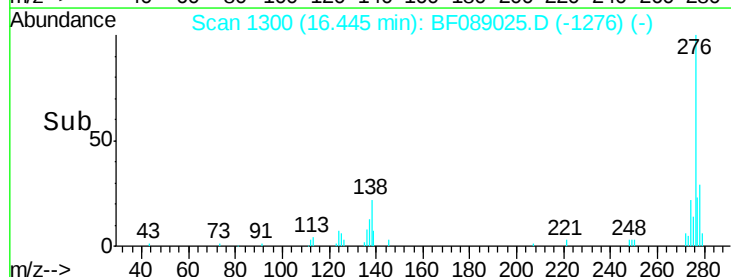
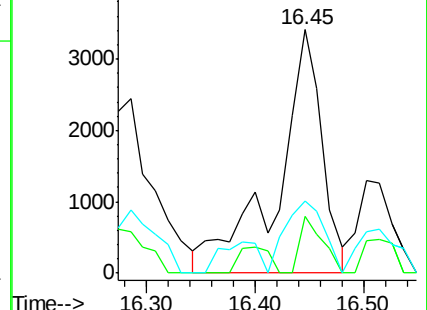
279 29.8 19.4 29.2#

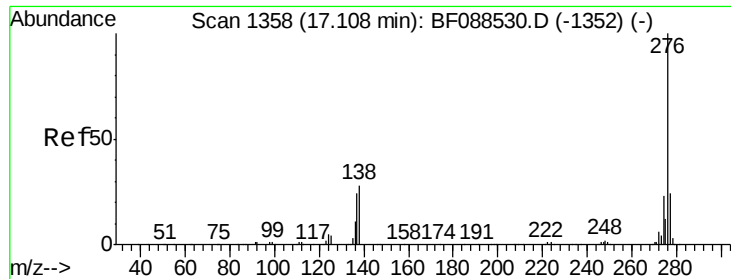


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 6.98 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

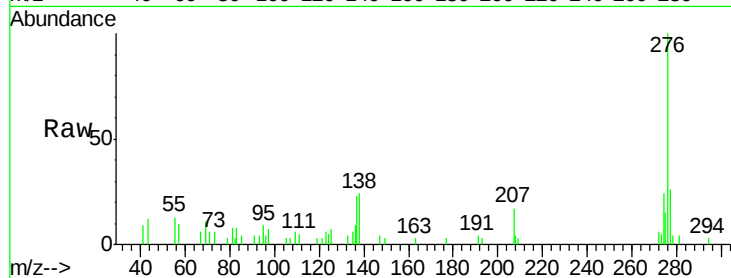
Tot Ion: 276 Resp: 24143

Ion Ratio Lower Upper

276 100

277 25.5 18.9 28.3

138 23.5 21.4 32.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

