

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052916\
 Data File : BF087577.D
 Acq On : 31 May 2016 6:45
 Operator : UM/SJ
 Sample : H3211-10DL 10X
 Misc :
 ALS Vial : 95 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TA-1320-(0-4)DL

Quant Time: May 31 07:31:28 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

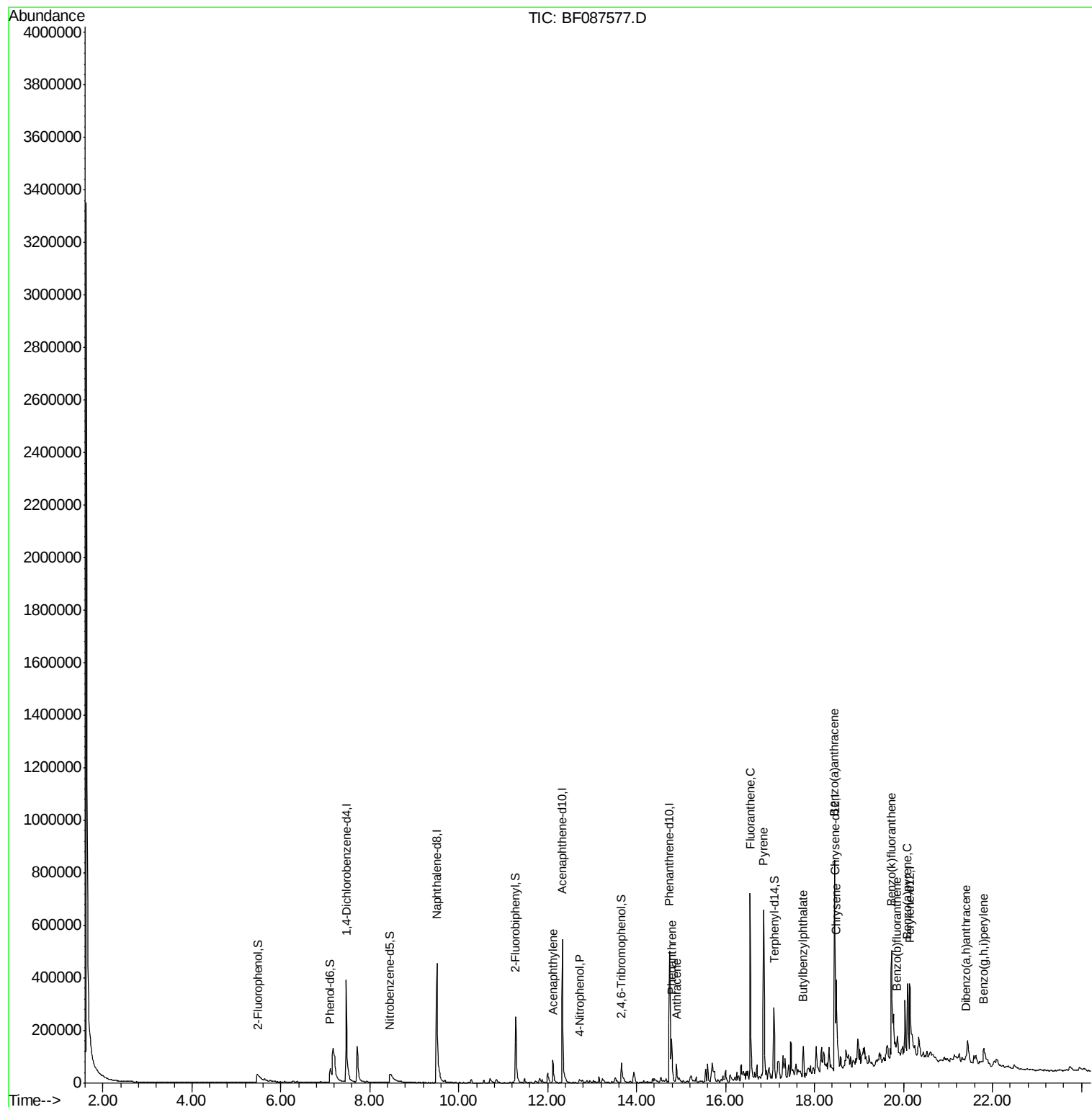
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	94699	20.00	ng	-0.05
21) Naphthalene-d8	9.51	136	402023	20.00	ng	-0.05
38) Acenaphthene-d10	12.33	164	174811	20.00	ng	-0.06
63) Phenanthrene-d10	14.74	188	285415	20.00	ng	-0.03
75) Chrysene-d12	18.46	240	228490	20.00	ng	-0.02
86) Perylene-d12	20.15	264	186781	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	48830	9.06	ng	0.07
7) Phenol-d6	7.11	99	84288	11.57	ng	0.03
23) Nitrobenzene-d5	8.46	82	63149	7.92	ng	0.01
41) 2,4,6-Tribromophenol	13.66	330	16240	9.67	ng	-0.02
44) 2-Fluorobiphenyl	11.28	172	135437	10.92	ng	-0.06
78) Terphenyl-d14	17.09	244	95236	8.86	ng	-0.05
Target Compounds						Qvalue
48) Acenaphthylene	12.11	152	76611	4.30	ng	98
55) 4-Nitrophenol	12.73	139	4753	3.44	ng	# 14
70) Phenanthrene	14.79	178	122967	7.78	ng	98
71) Anthracene	14.89	178	63646	3.99	ng	97
74) Fluoranthene	16.55	202	418017	26.37	ng	94
77) Pyrene	16.86	202	335136	20.38	ng	98
79) Butylbenzylphthalate	17.75	149	22884	3.14	ng	# 83
80) Benzo(a)anthracene	18.45	228	229128	17.63	ng	99
82) Chrysene	18.49	228	211635	16.41	ng	98
87) Benzo(b)fluoranthene	19.86	252	55139	4.63	ng	97
88) Benzo(k)fluoranthene	19.74	252	398583	38.92	ng	99
89) Benzo(a)pyrene	20.09	252	159399	15.49	ng	95
90) Dibenzo(a,h)anthracene	21.42	278	25214	2.87	ng	94
91) Benzo(g,h,i)perylene	21.81	276	67577	7.80	ng	# 90

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.47 min Scan# 515

Delta R.T. -0.05 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

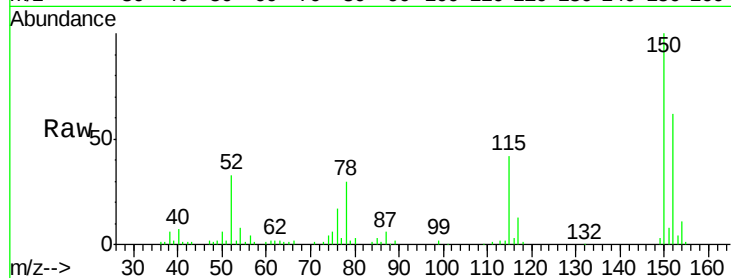
Tgt Ion:152 Resp: 94699

Ion Ratio Lower Upper

152 100

150 160.6 125.8 188.6

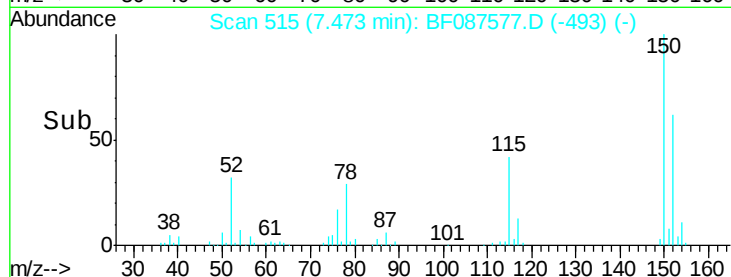
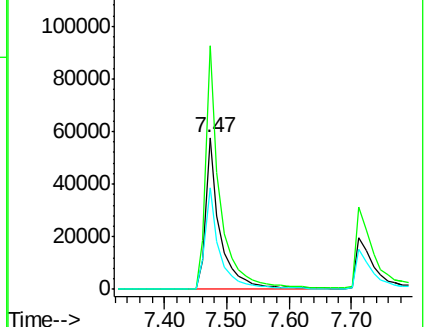
115 66.7 51.5 77.3



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: 9.06 ng

RT: 5.48 min Scan# 341

Delta R.T. 0.07 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

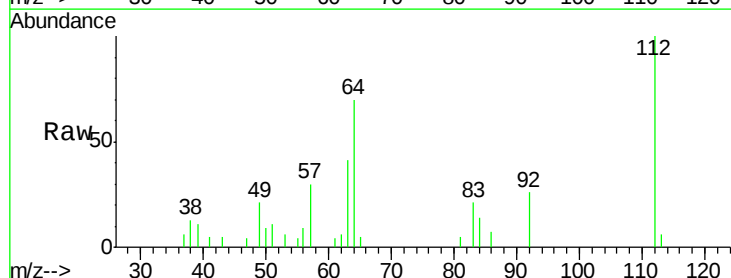
Tgt Ion:112 Resp: 48830

Ion Ratio Lower Upper

112 100

64 70.1 52.1 78.1

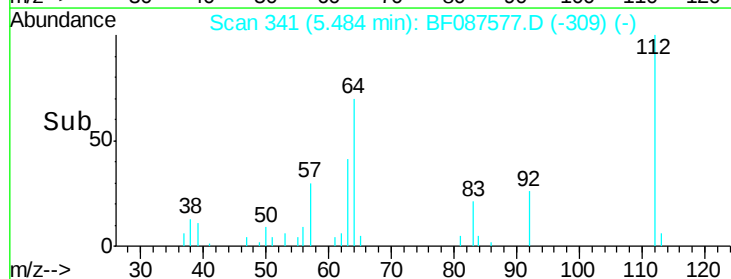
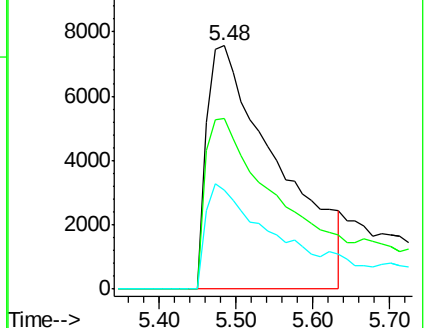
63 40.6 25.7 38.5#

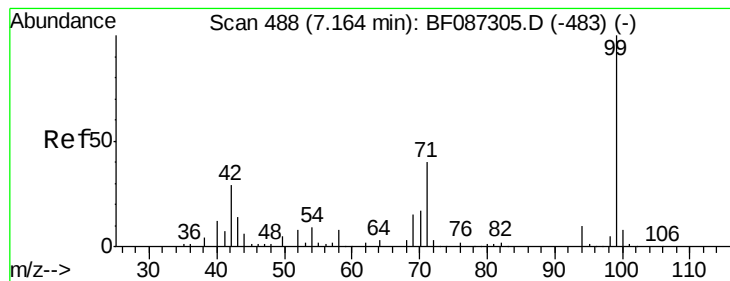


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 11.57 ng

RT: 7.11 min Scan# 483

Delta R.T. 0.03 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

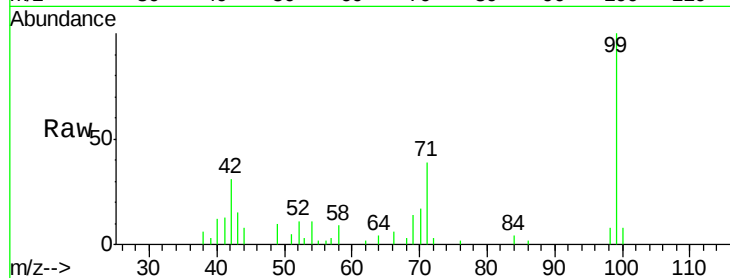
Tgt Ion: 99 Resp: 84288

Ion Ratio Lower Upper

99 100

42 31.5 13.6 20.4#

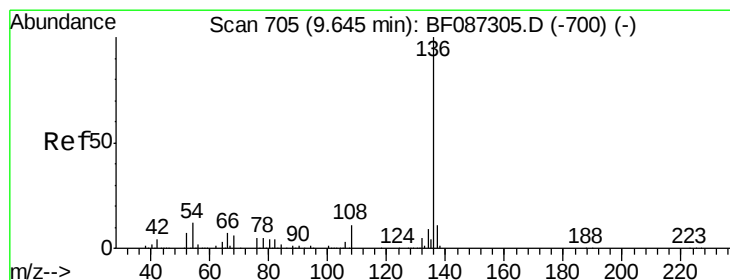
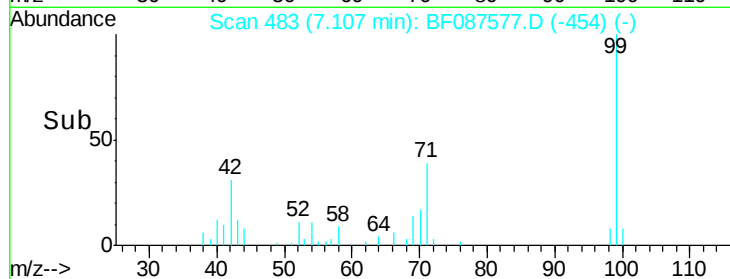
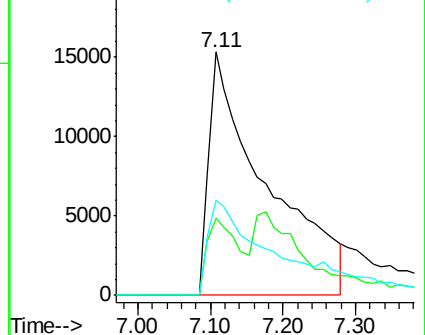
71 39.2 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.05 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Tgt Ion: 136 Resp: 402023

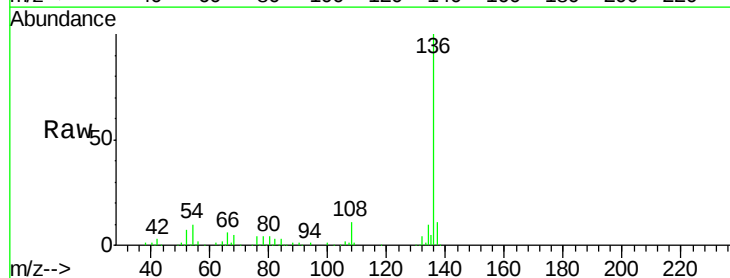
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 9.9 5.0 7.4#

68 5.0 4.4 6.6

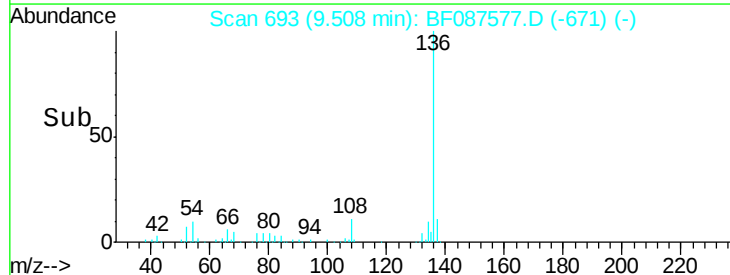
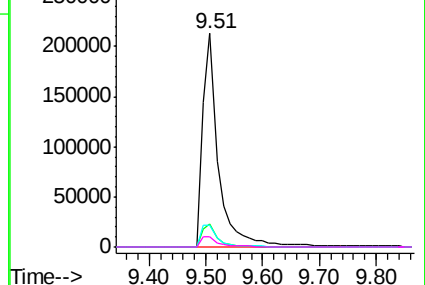


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

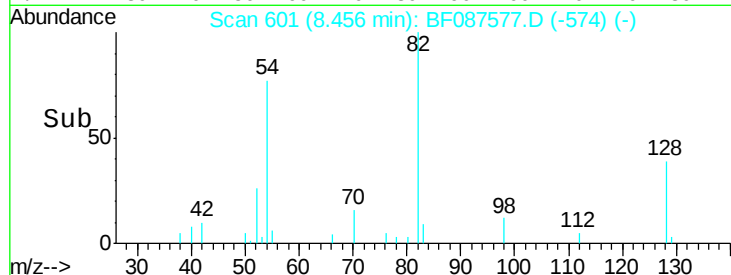
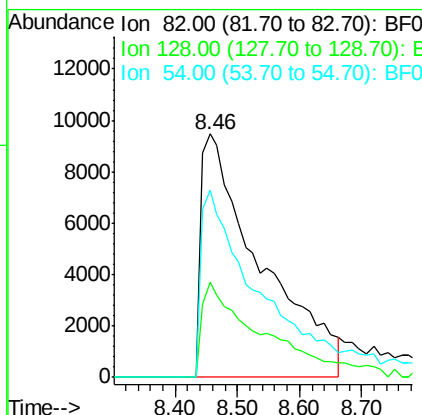
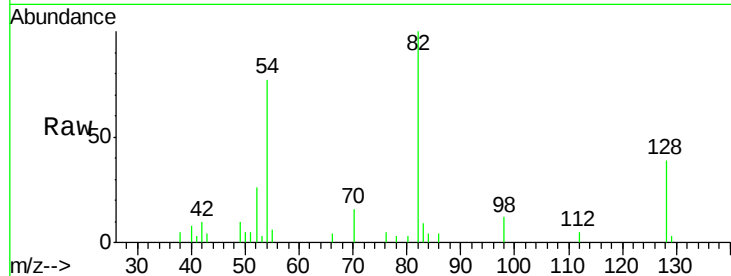




#23
 Nitrobenzene-d5
 Concen: 7.92 ng
 RT: 8.46 min Scan# 601
 Delta R.T. 0.01 min
 Lab File: BF087577.D
 Acq: 31 May 2016 6:45

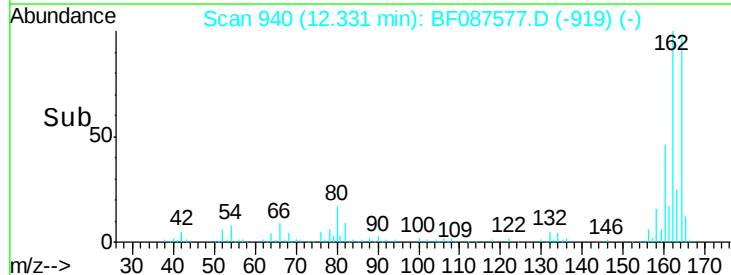
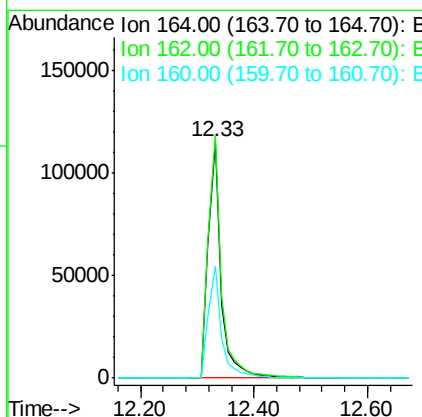
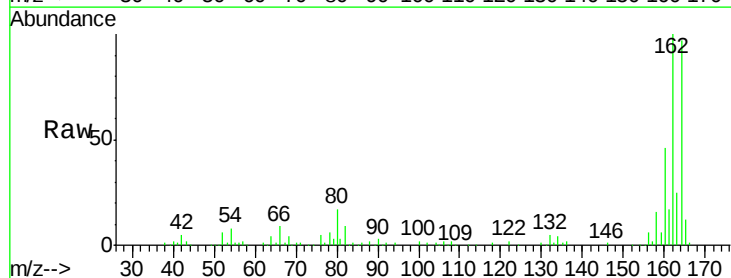
Instrument :
 BNA_F
 ClientSampleId :
 TA-1320-(0-4)DL

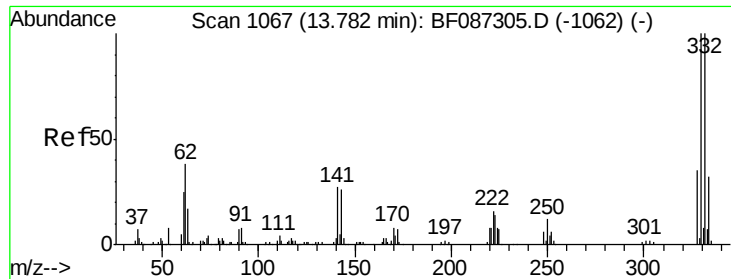
Tgt Ion: 82 Resp: 63149
 Ion Ratio Lower Upper
 82 100
 128 38.9 40.6 61.0#
 54 76.9 38.1 57.1#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.33 min Scan# 940
 Delta R.T. -0.06 min
 Lab File: BF087577.D
 Acq: 31 May 2016 6:45

Tgt Ion: 164 Resp: 174811
 Ion Ratio Lower Upper
 164 100
 162 103.1 82.8 124.2
 160 47.4 36.9 55.3

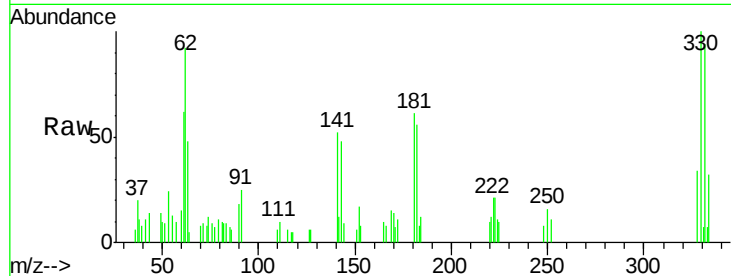




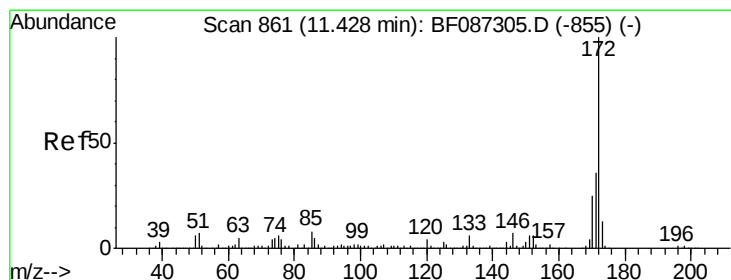
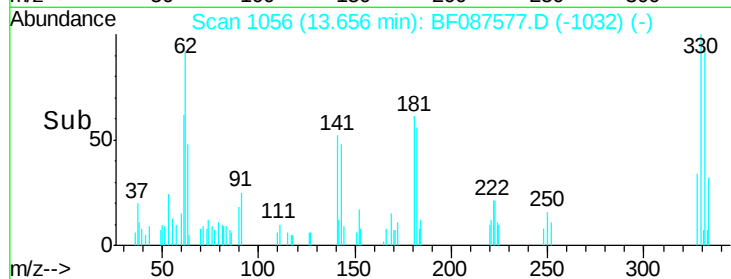
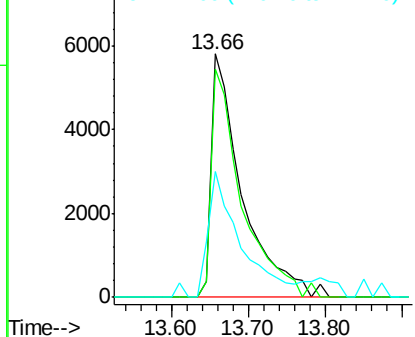
#41
 2,4,6-Tribromophenol
 Concen: 9.67 ng
 RT: 13.66 min Scan# 1056
 Delta R.T. -0.02 min
 Lab File: BF087577.D
 Acq: 31 May 2016 6:45

Instrument :
 BNA_F
 ClientSampleId :
 TA-1320-(0-4)DL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.7	79.0	118.4
141	55.6	31.2	46.8

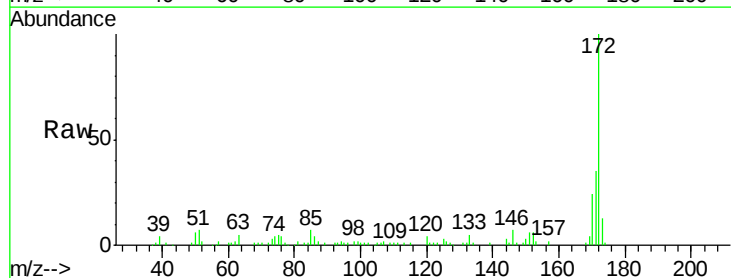


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

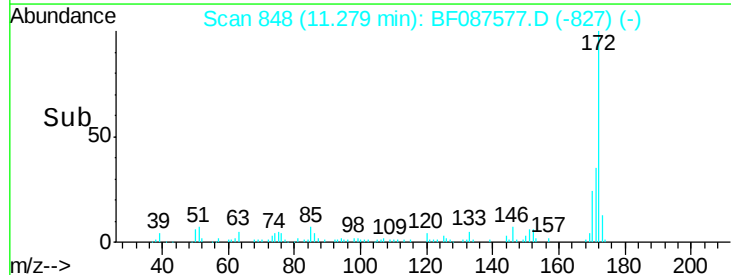
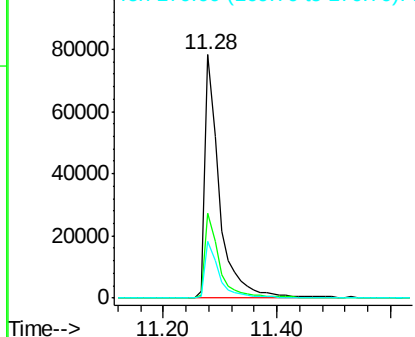


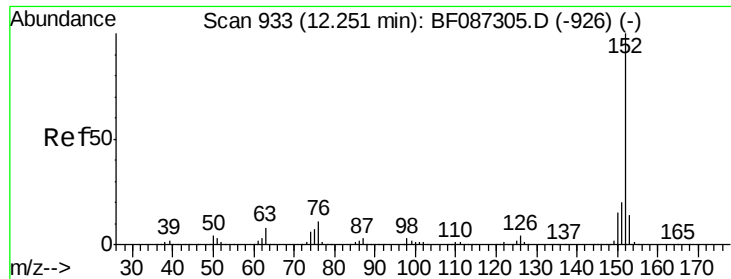
#44
 2-Fluorobiphenyl
 Concen: 10.92 ng
 RT: 11.28 min Scan# 848
 Delta R.T. -0.06 min
 Lab File: BF087577.D
 Acq: 31 May 2016 6:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.6
170	23.5	19.8	29.8



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: 4.30 ng

RT: 12.11 min Scan# 921

Delta R.T. -0.05 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

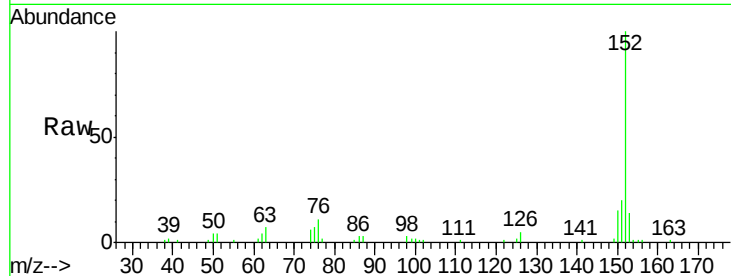
Tgt Ion:152 Resp: 76611

Ion Ratio Lower Upper

152 100

151 19.8 16.8 25.2

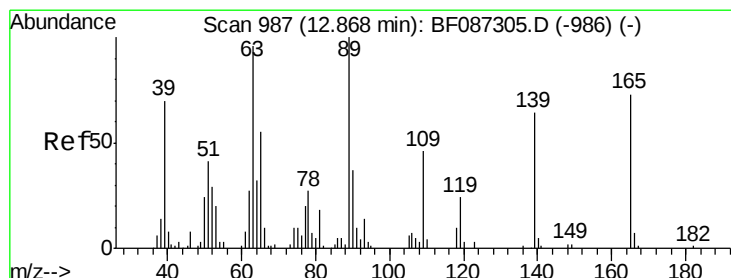
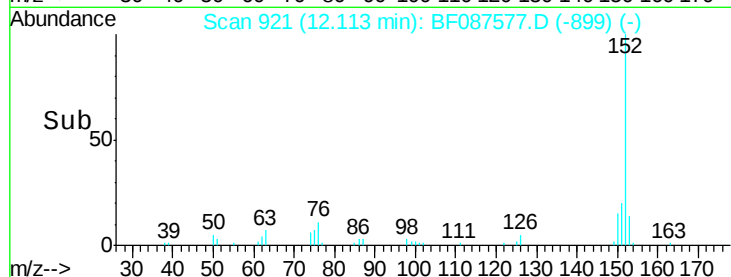
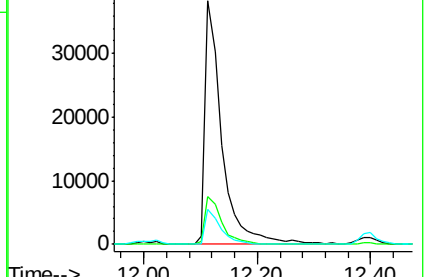
153 14.5 10.9 16.3



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



#55

4-Nitrophenol

Concen: 3.44 ng

RT: 12.73 min Scan# 975

Delta R.T. -0.05 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

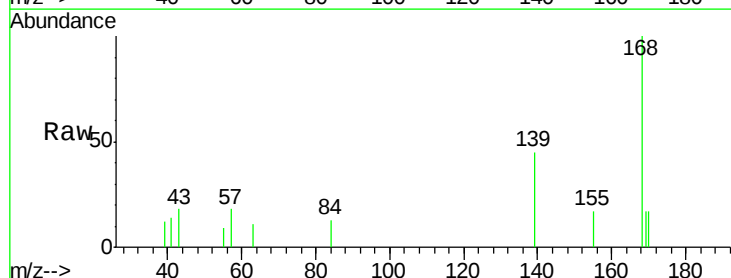
Tgt Ion:139 Resp: 4753

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

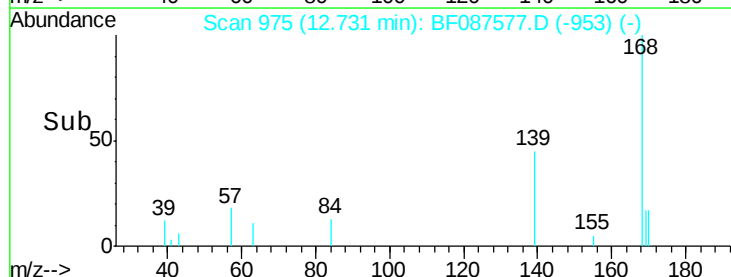
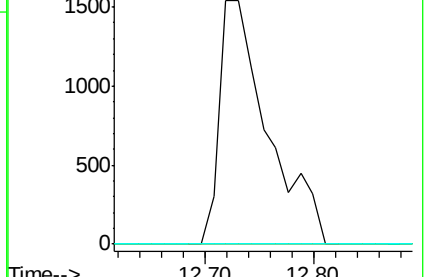
65 0.0 64.0 104.0#

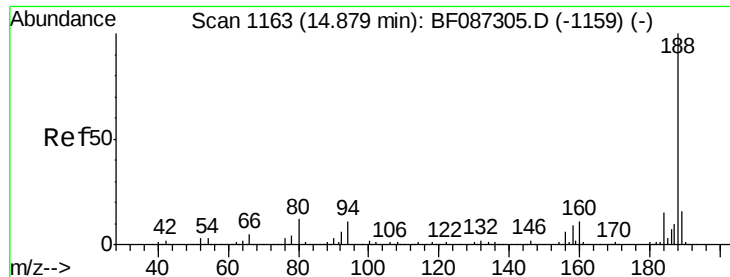


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

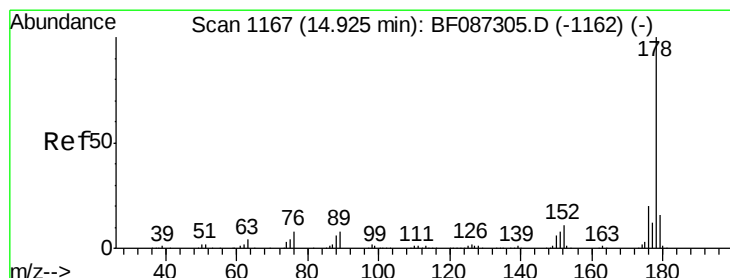
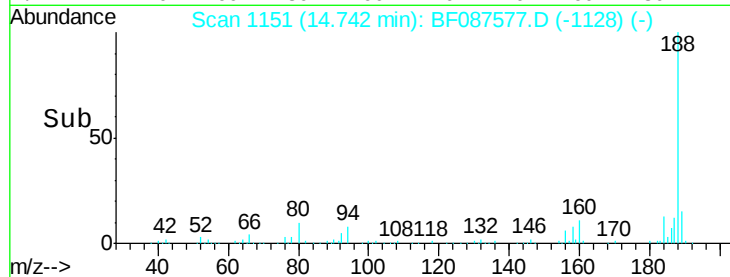
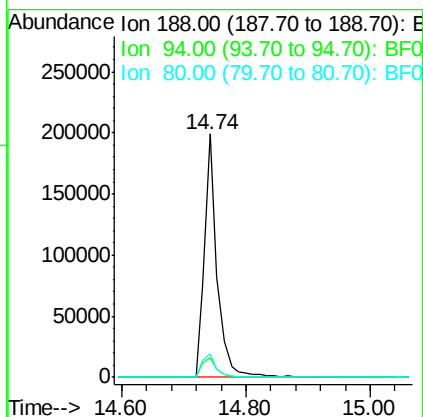
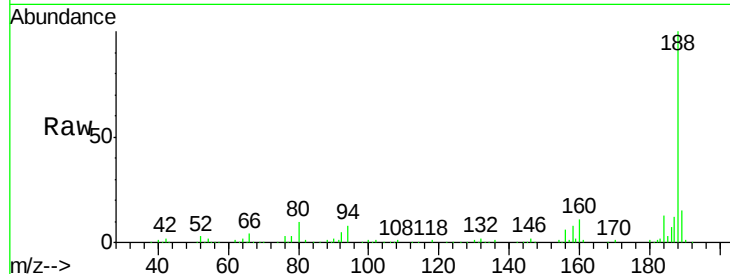




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.74 min Scan# 1151
 Delta R.T. -0.03 min
 Lab File: BF087577.D
 Acq: 31 May 2016 6:45

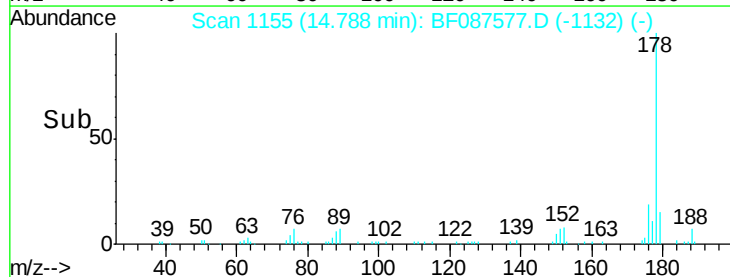
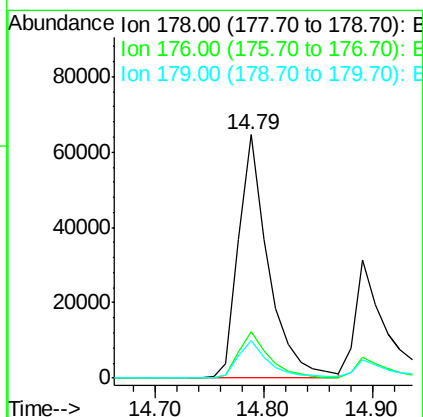
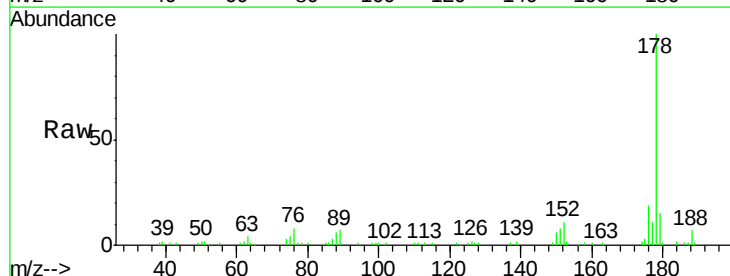
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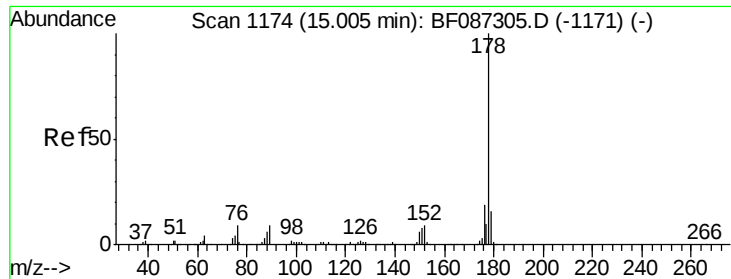
Tgt Ion:188 Resp: 285415
 Ion Ratio Lower Upper
 188 100
 94 8.2 6.8 10.2
 80 9.7 7.1 10.7



#70
 Phenanthrene
 Concen: 7.78 ng
 RT: 14.79 min Scan# 1155
 Delta R.T. -0.03 min
 Lab File: BF087577.D
 Acq: 31 May 2016 6:45

Tgt Ion:178 Resp: 122967
 Ion Ratio Lower Upper
 178 100
 176 18.9 16.0 24.0
 179 15.2 12.6 18.8





#71

Anthracene

Concen: 3.99 ng

RT: 14.89 min Scan# 1164

Delta R.T. -0.01 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

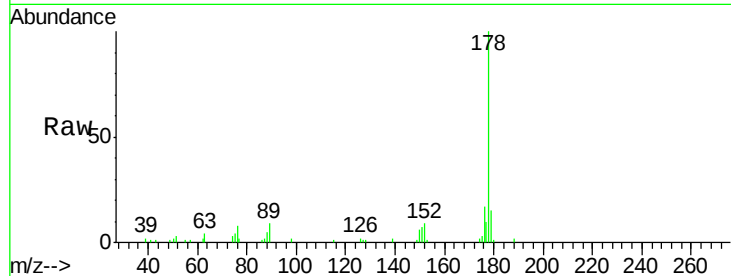
Tgt Ion:178 Resp: 63646

Ion Ratio Lower Upper

178 100

176 17.4 15.6 23.4

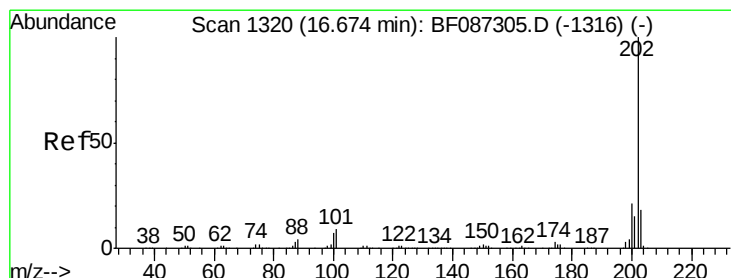
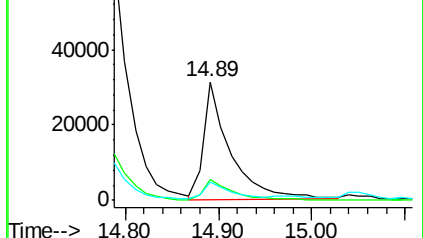
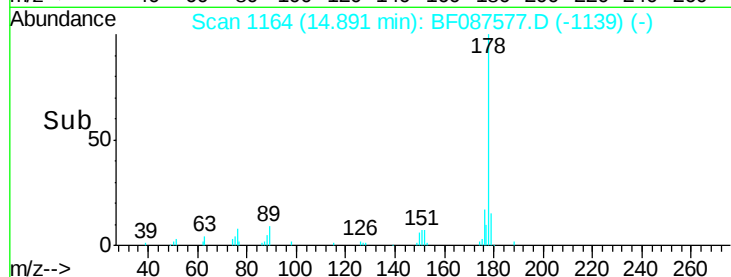
179 15.4 12.7 19.1



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: 26.37 ng

RT: 16.55 min Scan# 1309

Delta R.T. -0.03 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

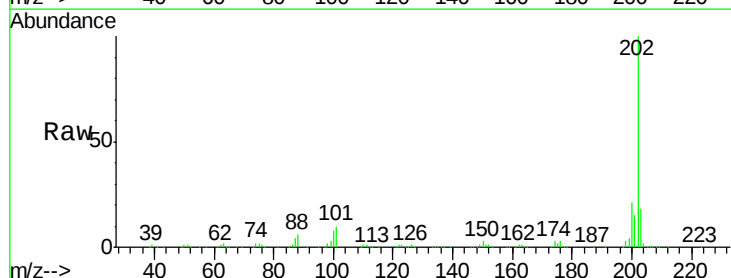
Tgt Ion:202 Resp: 418017

Ion Ratio Lower Upper

202 100

101 10.2 0.0 35.4

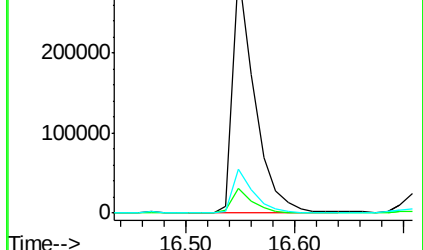
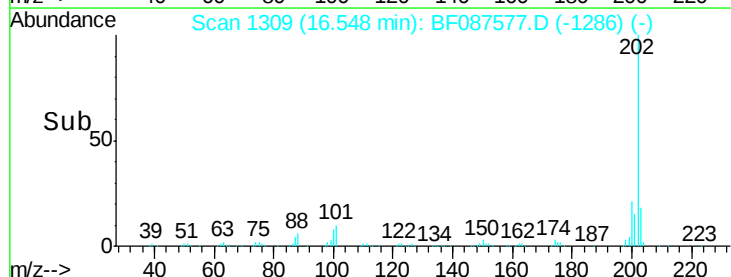
203 17.9 0.0 38.1

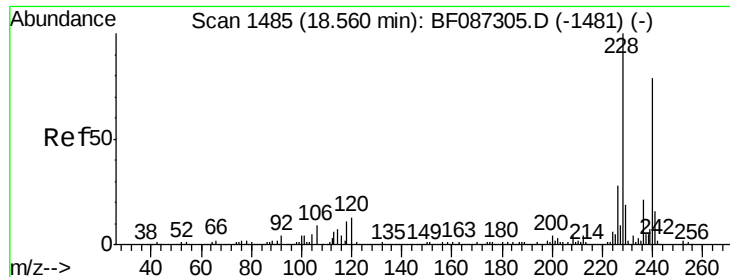


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

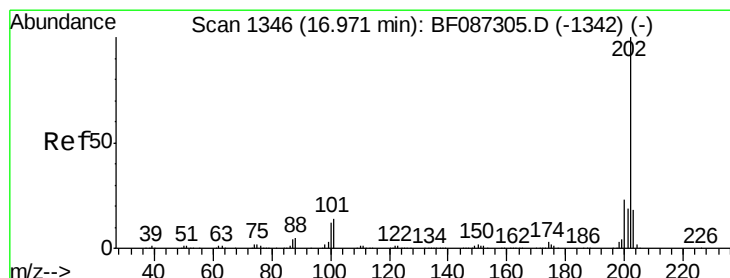
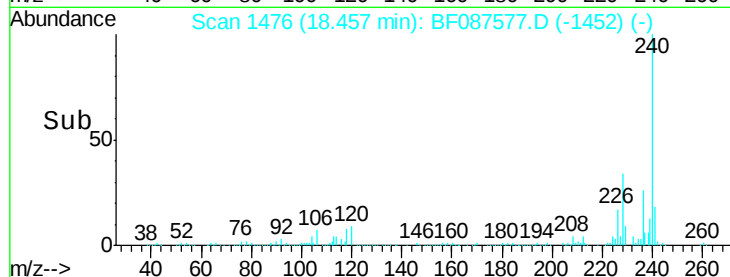
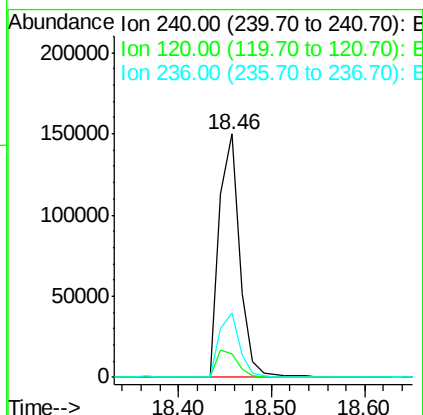
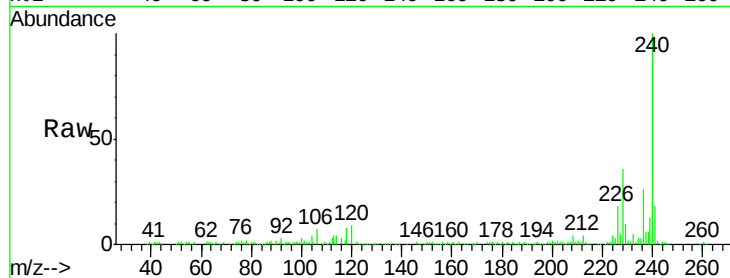




#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.46 min Scan# 1476
Delta R.T. -0.02 min
Lab File: BF087577.D
Acq: 31 May 2016 6:45

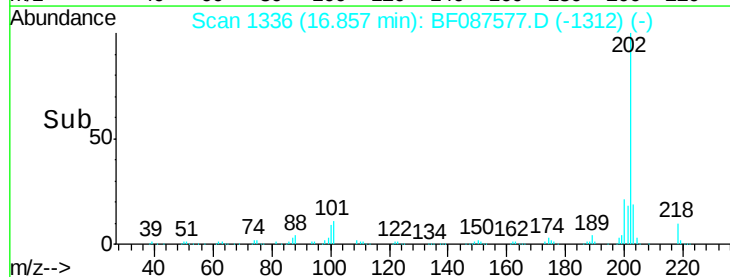
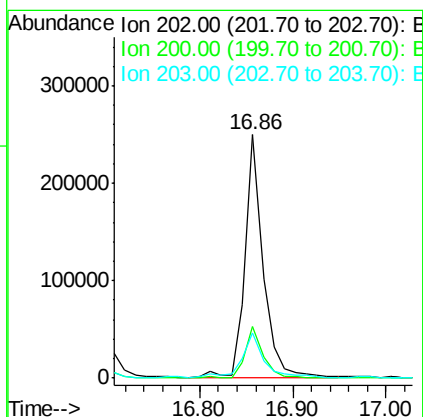
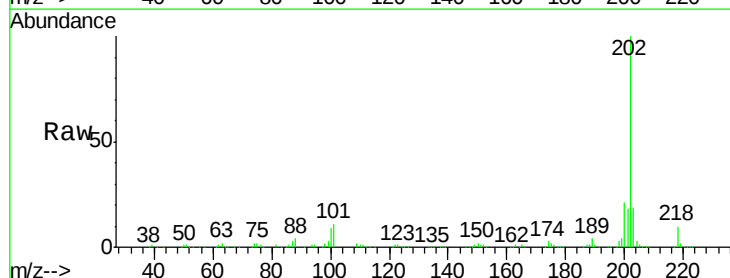
Instrument :
BNA_F
ClientSampleId :
TA-1320-(0-4)DL

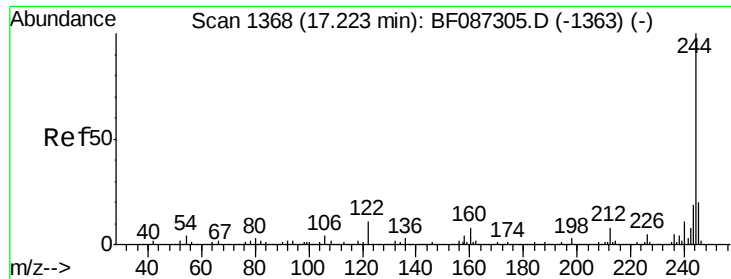
Tgt Ion:240 Resp: 228490
Ion Ratio Lower Upper
240 100
120 9.5 11.2 16.8#
236 26.4 21.2 31.8



#77
Pyrene
Concen: 20.38 ng
RT: 16.86 min Scan# 1336
Delta R.T. -0.02 min
Lab File: BF087577.D
Acq: 31 May 2016 6:45

Tgt Ion:202 Resp: 335136
Ion Ratio Lower Upper
202 100
200 21.3 17.7 26.5
203 18.8 14.2 21.4





#78

Terphenyl-d14

Concen: 8.86 ng

RT: 17.09 min Scan# 1356

Delta R.T. -0.05 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

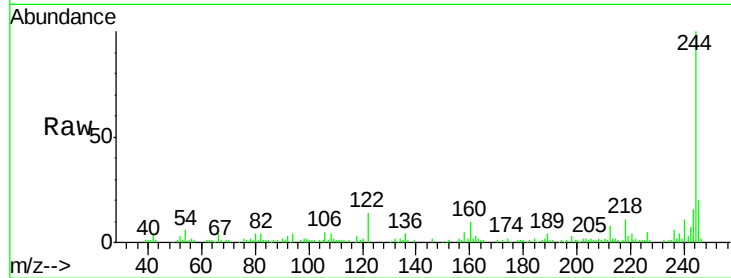
Tgt Ion:244 Resp: 95236

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

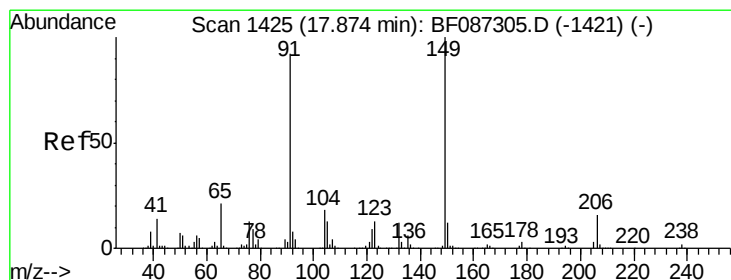
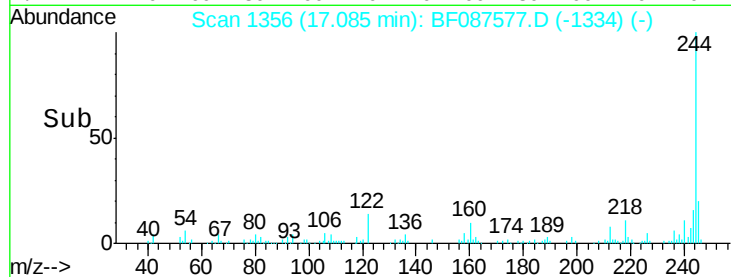
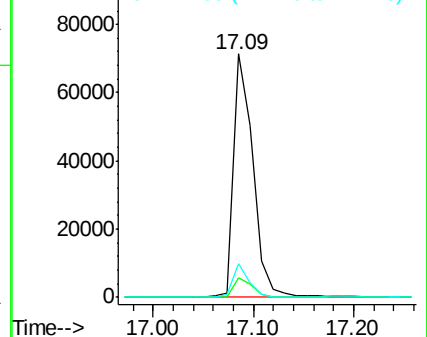
122 13.8 12.0 18.0



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



#79

Butylbenzylphthalate

Concen: 3.14 ng

RT: 17.75 min Scan# 1414

Delta R.T. -0.05 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

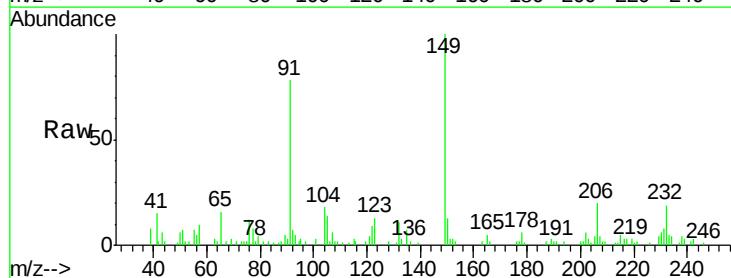
Tgt Ion:149 Resp: 22884

Ion Ratio Lower Upper

149 100

91 77.5 48.0 72.0#

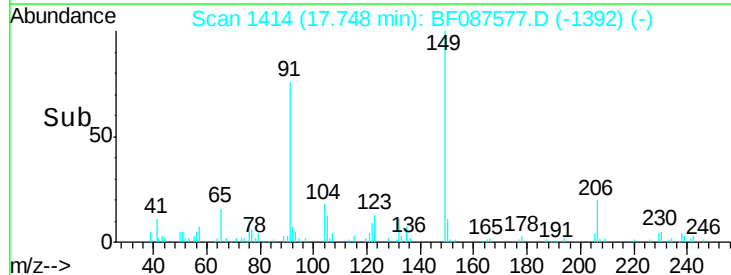
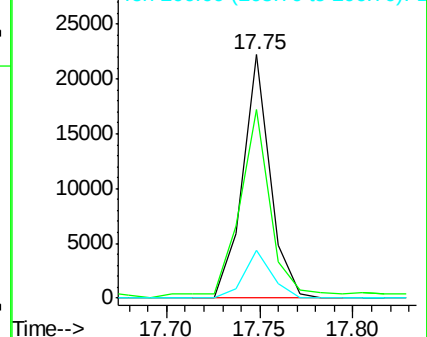
206 19.7 15.8 23.6

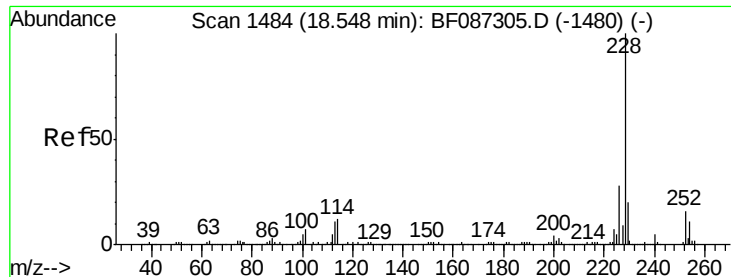


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 17.63 ng

RT: 18.45 min Scan# 1475

Delta R.T. -0.01 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

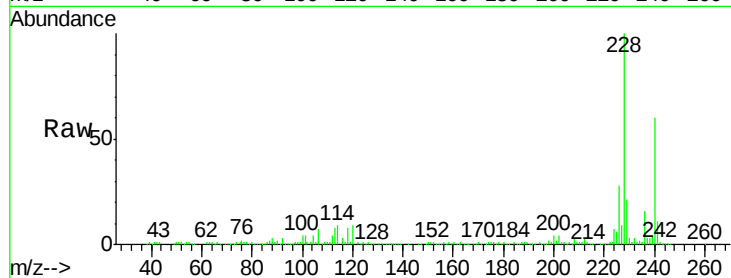
Tgt Ion:228 Resp: 229128

Ion Ratio Lower Upper

228 100

226 27.7 22.5 33.7

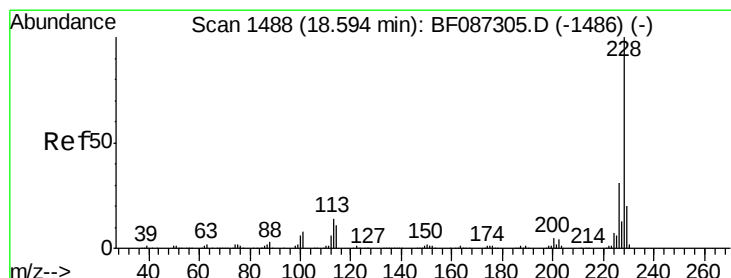
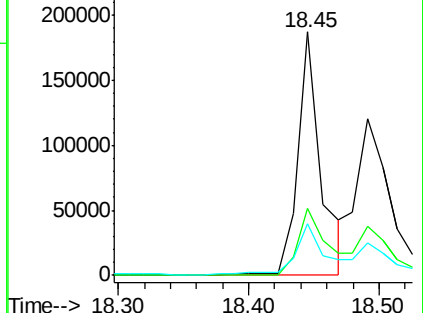
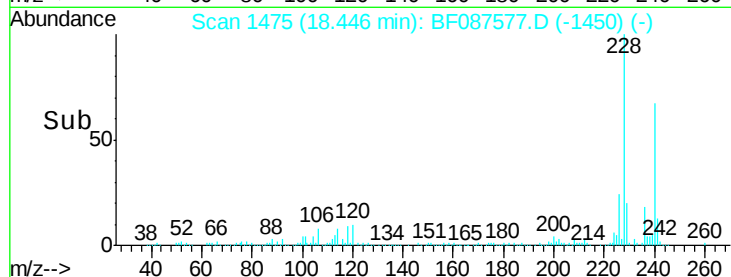
229 21.0 16.6 25.0



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



#82

Chrysene

Concen: 16.41 ng

RT: 18.49 min Scan# 1479

Delta R.T. -0.02 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

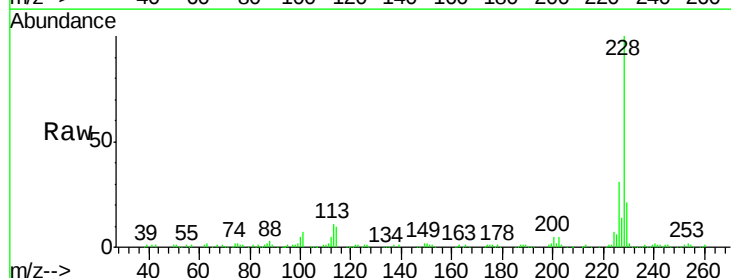
Tgt Ion:228 Resp: 211635

Ion Ratio Lower Upper

228 100

226 31.4 24.4 36.6

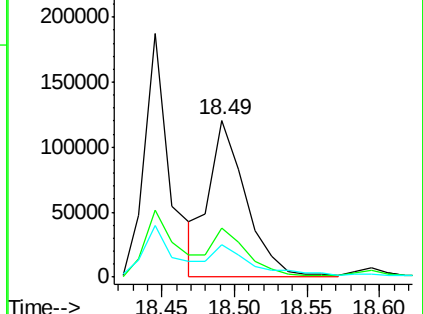
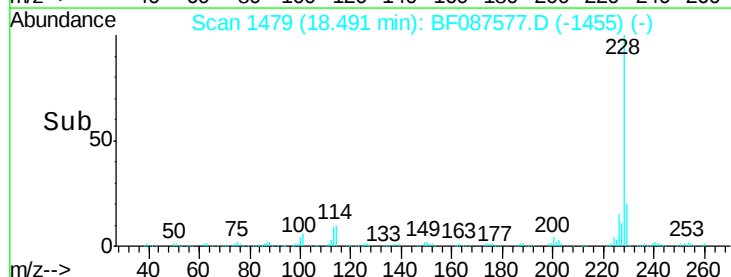
229 21.0 15.8 23.8

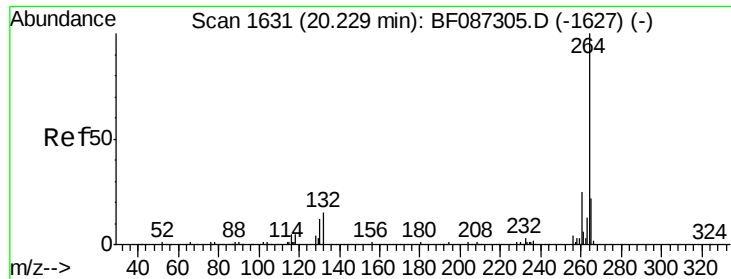


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



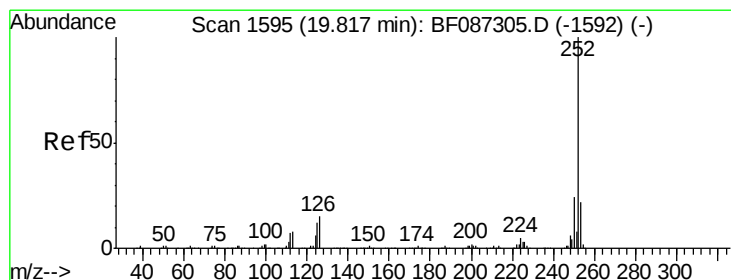
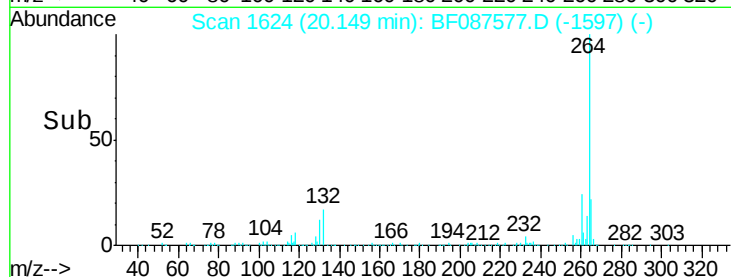
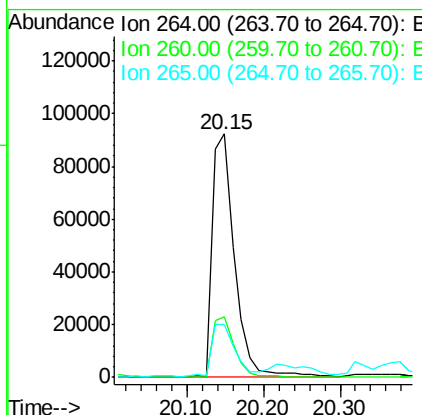
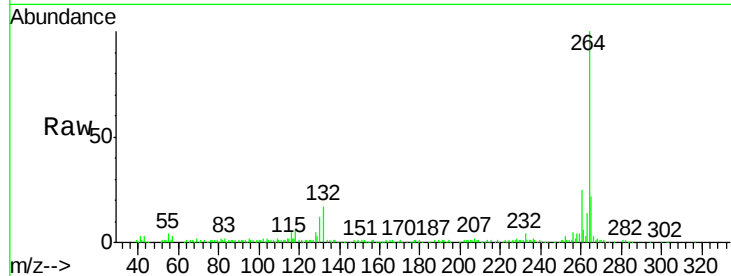


#86
Perylene-d12
Concen: 20.00 ng
RT: 20.15 min Scan# 1624
Delta R.T. 0.01 min
Lab File: BF087577.D
Acq: 31 May 2016 6:45

Instrument :
BNA_F
ClientSampleId :
TA-1320-(0-4)DL

Tgt Ion: 264 Resp: 186781

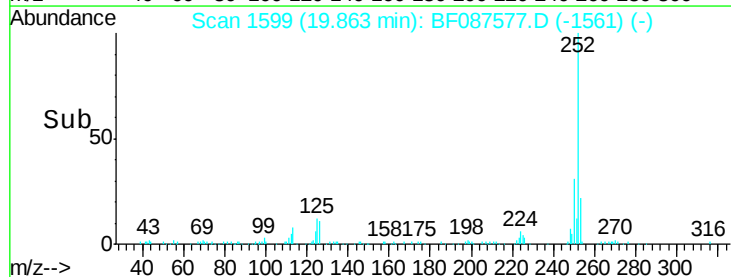
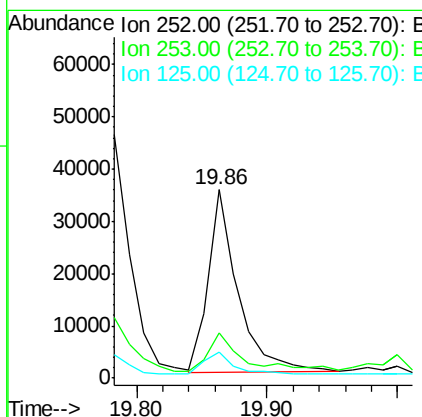
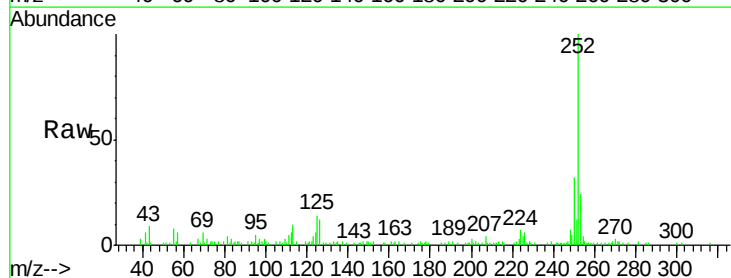
Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	21.5	17.3	25.9

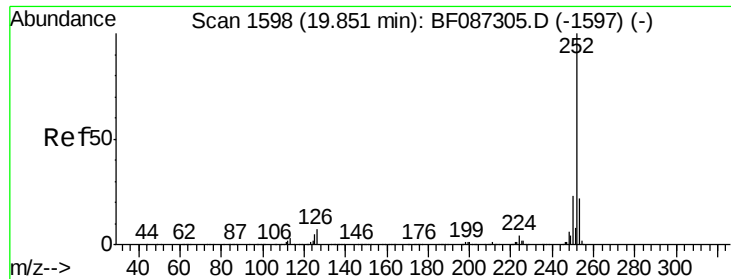


#87
Benzo(b)fluoranthene
Concen: 4.63 ng
RT: 19.86 min Scan# 1599
Delta R.T. 0.14 min
Lab File: BF087577.D
Acq: 31 May 2016 6:45

Tgt Ion: 252 Resp: 55139

Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	13.6	11.4	17.0





#88

Benzo(k)fluoranthene

Concen: 38.92 ng

RT: 19.74 min Scan# 1588

Delta R.T. -0.02 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

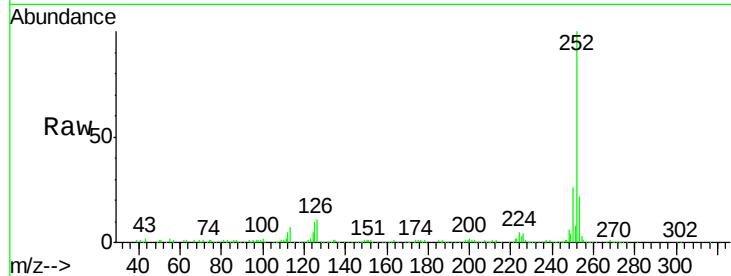
Tgt Ion:252 Resp: 398583

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.6

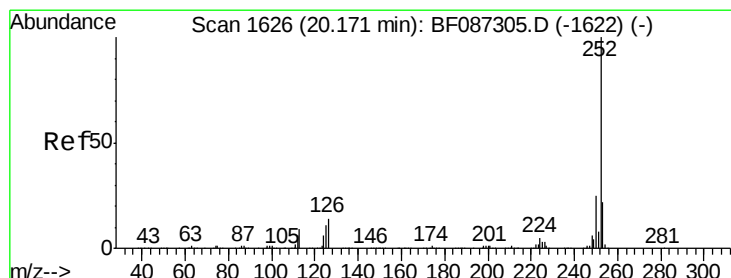
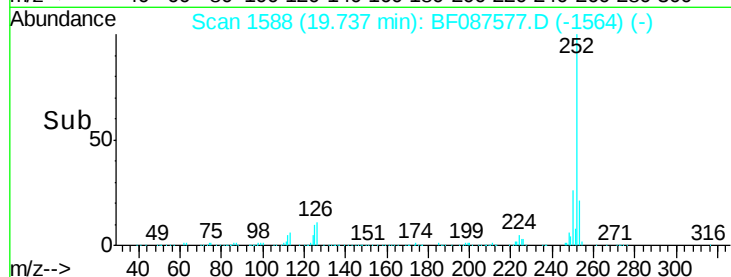
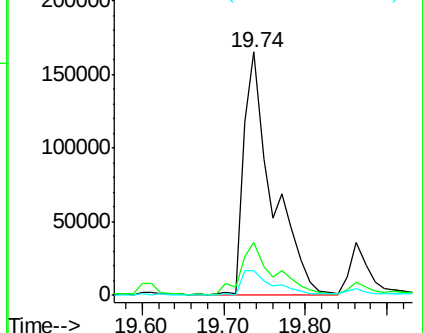
125 10.4 9.1 13.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 15.49 ng

RT: 20.09 min Scan# 1619

Delta R.T. 0.01 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

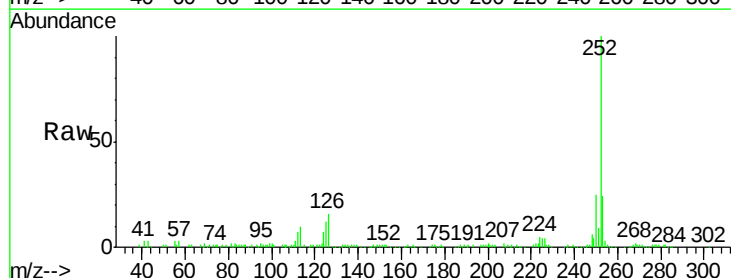
Tgt Ion:252 Resp: 159399

Ion Ratio Lower Upper

252 100

253 24.5 17.2 25.8

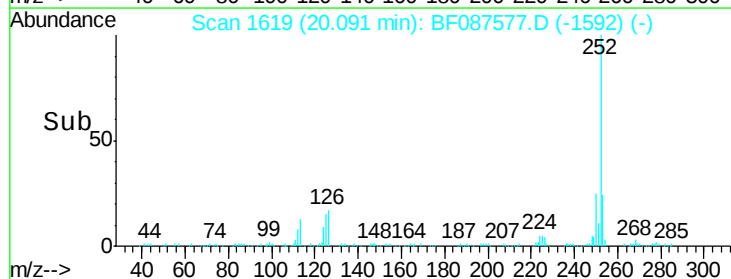
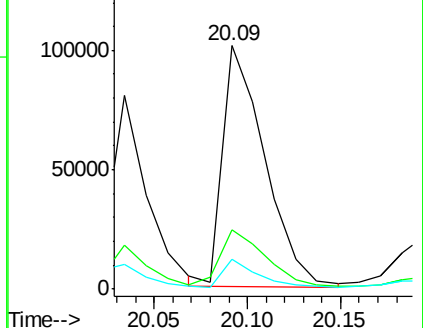
125 12.5 9.0 13.6

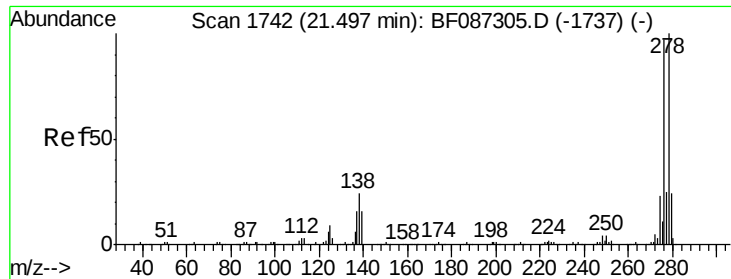


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.87 ng

RT: 21.42 min Scan# 1735

Delta R.T. 0.06 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

Instrument :

BNA_F

ClientSampleId :

TA-1320-(0-4)DL

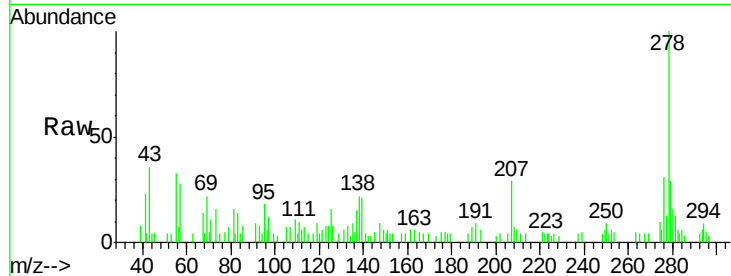
Tgt Ion: 278 Resp: 25214

Ion Ratio Lower Upper

278 100

139 21.3 16.6 24.8

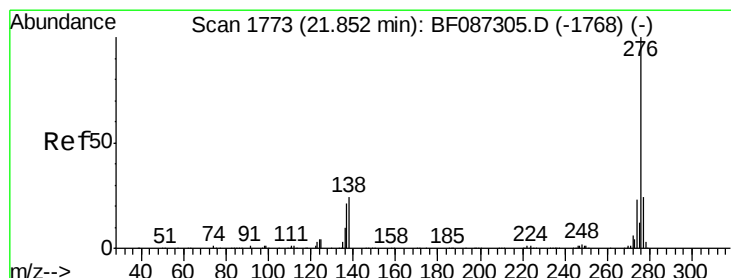
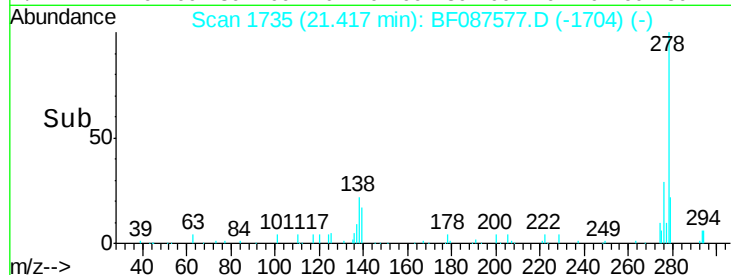
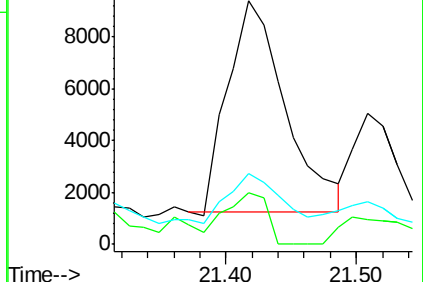
279 29.2 19.6 29.4



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(g,h,i)perylene

Concen: 7.80 ng

RT: 21.81 min Scan# 1769

Delta R.T. 0.09 min

Lab File: BF087577.D

Acq: 31 May 2016 6:45

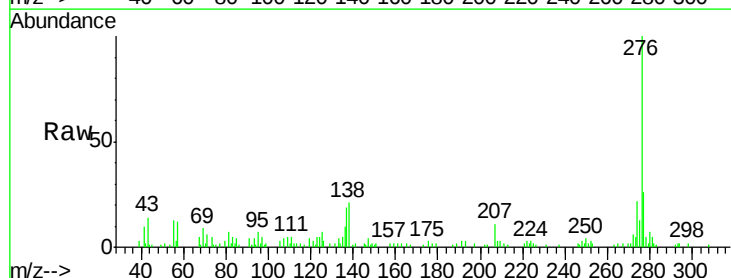
Tgt Ion: 276 Resp: 67577

Ion Ratio Lower Upper

276 100

277 25.6 19.6 29.4

138 20.6 23.6 35.4#



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

