

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032816\
 Data File : BF085821.D
 Acq On : 29 Mar 2016 00:32
 Operator : UM/SJ
 Sample : H1978-01
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NCB-083-CS-1(0-21FTBGS)

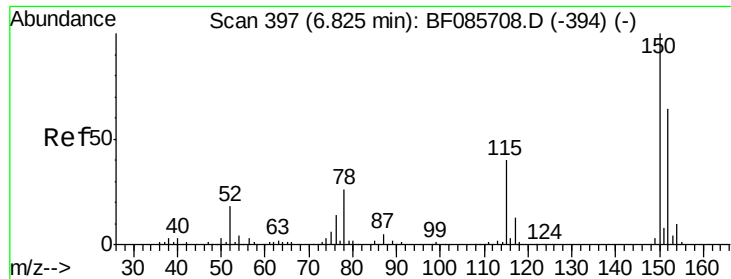
Quant Time: Mar 29 03:41:19 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 28 15:27:05 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	113486	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	445356	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	200606	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	362135	20.00	ng	-0.01
75) Chrysene-d12	13.97	240	198705	20.00	ng	-0.01
86) Perylene-d12	15.40	264	194646	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	886333	130.07	ng	0.01
7) Phenol-d6	6.46	99	1190460	137.41	ng	0.00
23) Nitrobenzene-d5	7.38	82	734780	92.91	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	248109	130.17	ng	-0.01
44) 2-Fluorobiphenyl	9.18	172	985664	82.09	ng	-0.01
78) Terphenyl-d14	12.93	244	758926	78.55	ng	0.00

Target Compounds						Qvalue
9) Benzaldehyde	6.58	77	19362	3.71	ng	87
15) Benzyl Alcohol	6.97	79	12376	2.14	ng	# 42
19) n-Nitroso-di-n-propylamine	7.38	70	96781	18.66	ng	# 76
20) 3+4-Methylphenols	7.24	107	17328	2.27	ng	# 59
37) 2-Methylnaphthalene	8.81	142	5068	Below	Cal	97
49) Dimethylphthalate	9.58	163	149312	9.81	ng	99
56) 2,4-Dinitrotoluene	9.85	165	25766	6.19	ng	# 38
66) 4-Bromophenyl-phenylether	10.64	248	15478	4.18	ng	# 1
70) Phenanthrene	11.36	178	166258	8.94	ng	98
74) Fluoranthene	12.55	202	234928	11.89	ng	92
77) Pyrene	12.78	202	260304	15.94	ng	99
80) Benzo(a)anthracene	13.97	228	109524	9.67	ng	98
82) Chrysene	13.97	228	109524	9.60	ng	97
85) Indeno(1,2,3-cd)pyrene	16.77	276	45665	5.18	ng	95
87) Benzo(b)fluoranthene	14.99	252	130700	10.66	ng	98
88) Benzo(k)fluoranthene	14.99	252	130700	11.82	ng	# 95
89) Benzo(a)pyrene	15.33	252	85465	7.85	ng	# 96
91) Benzo(g,h,i)perylene	17.18	276	51445	5.02	ng	99

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

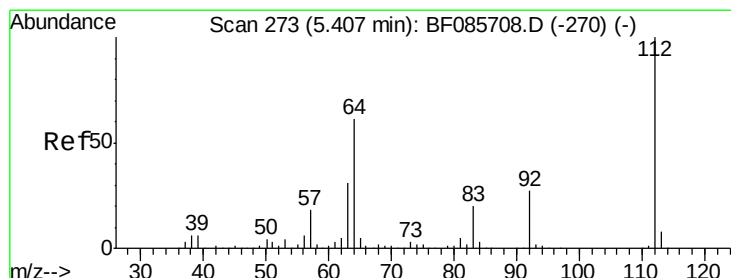
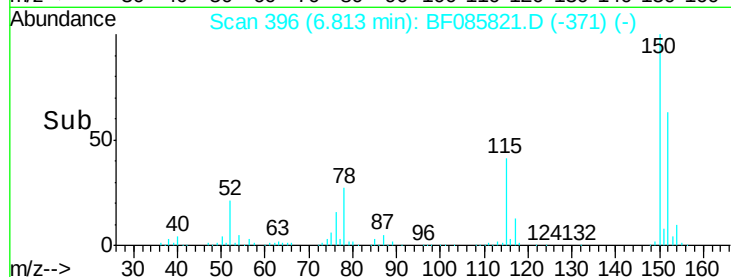
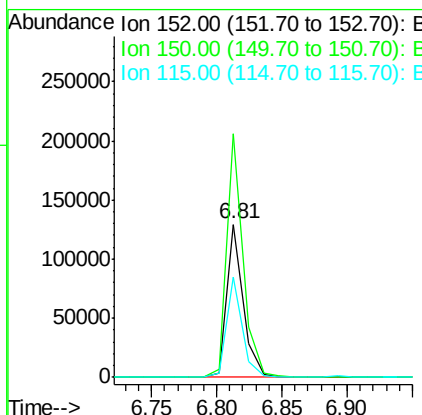
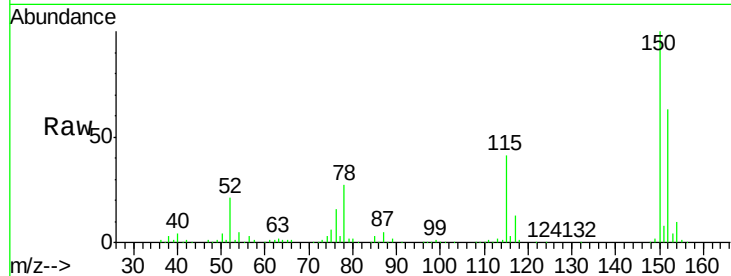


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 396
Delta R.T. -0.01 min
Lab File: BF085821.D
Acq: 29 Mar 2016 00:32

Instrument :
BNA_F
ClientSampleId :
NCB-083-CS-1(0-21FTBGS)

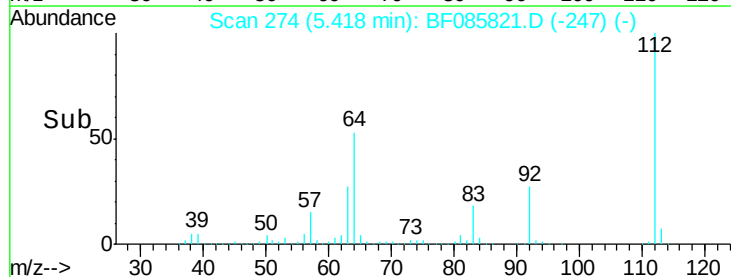
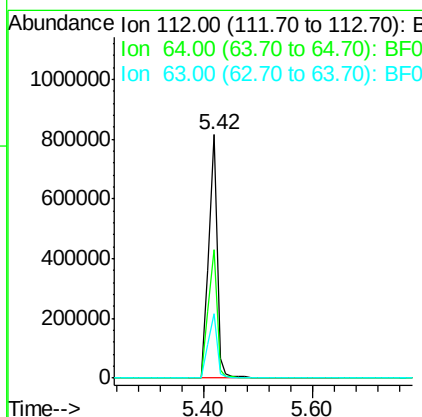
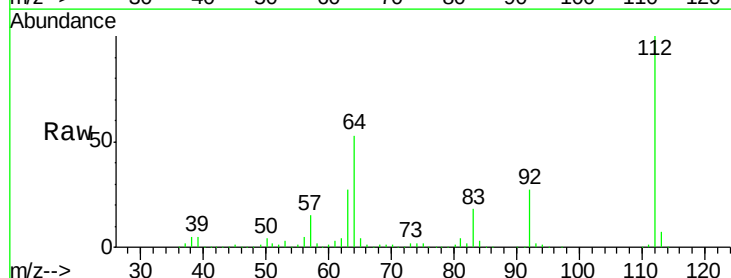
Tgt Ion:152 Resp: 113486
Ion Ratio Lower Upper
152 100
150 159.0 124.2 186.2
115 65.7 47.0 70.6

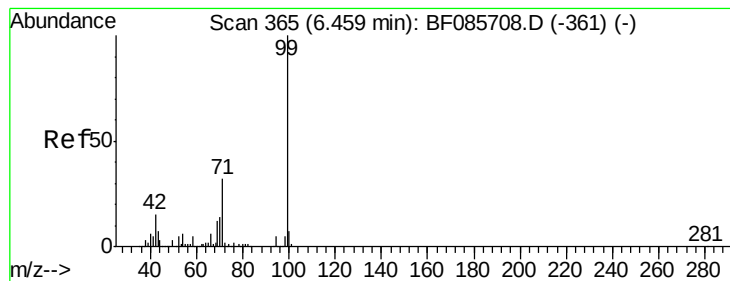


#5

2-Fluorophenol
Concen: 130.07 ng
RT: 5.42 min Scan# 274
Delta R.T. 0.01 min
Lab File: BF085821.D
Acq: 29 Mar 2016 00:32

Tgt Ion:112 Resp: 886333
Ion Ratio Lower Upper
112 100
64 52.8 39.9 59.9
63 26.7 20.2 30.2





#7

Phenol-d6

Concen: 137.41 ng

RT: 6.46 min Scan# 365

Delta R.T. -0.00 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

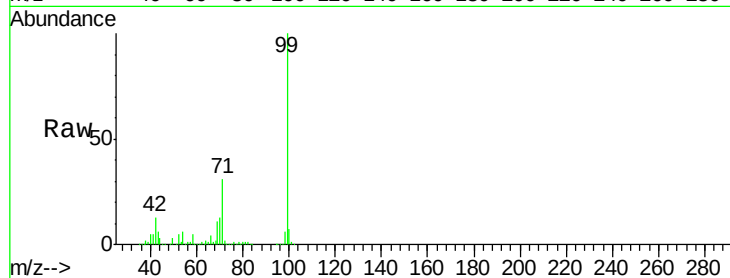
Tgt Ion: 99 Resp: 1190460

Ion Ratio Lower Upper

99 100

42 13.1 11.1 16.7

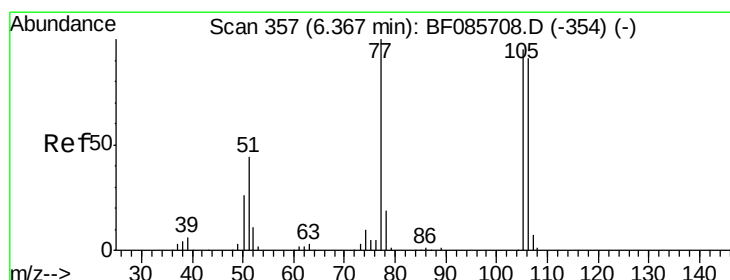
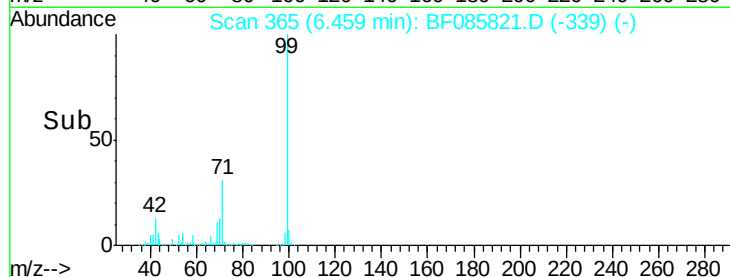
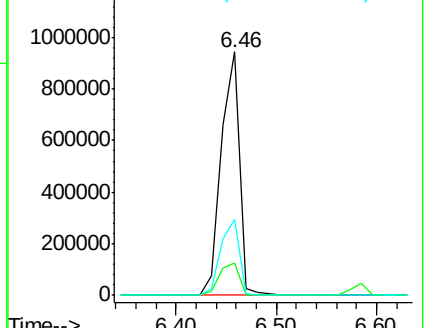
71 31.0 24.9 37.3



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



#9

Benzaldehyde

Concen: 3.71 ng

RT: 6.58 min Scan# 376

Delta R.T. 0.22 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

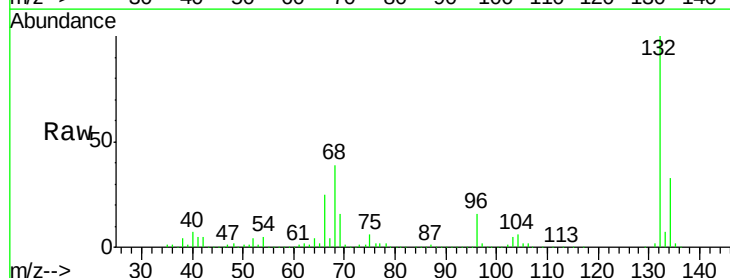
Tgt Ion: 77 Resp: 19362

Ion Ratio Lower Upper

77 100

105 86.7 80.1 120.1

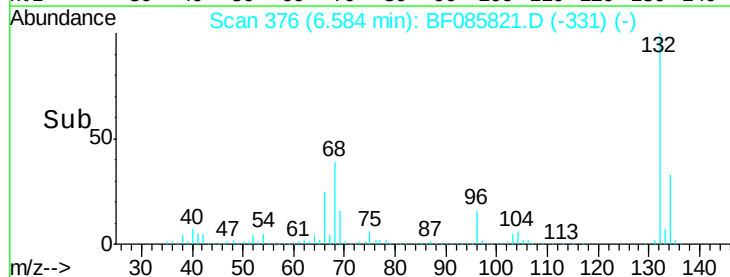
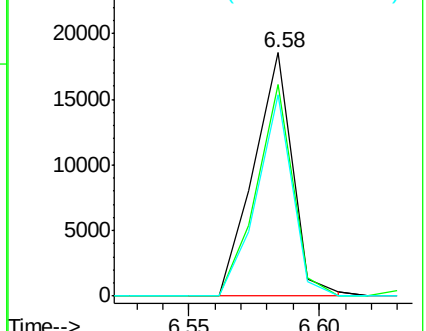
106 82.7 75.0 115.0

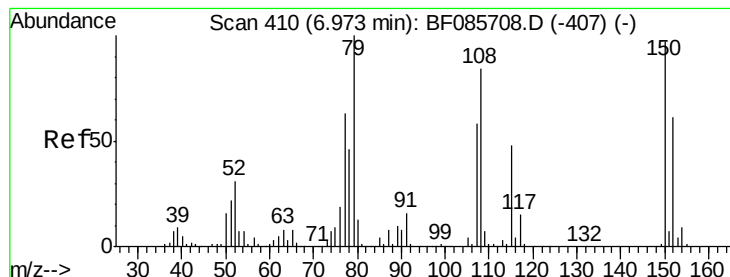


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#15

Benzyl Alcohol

Concen: 2.14 ng

RT: 6.97 min Scan# 410

Delta R.T. -0.00 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

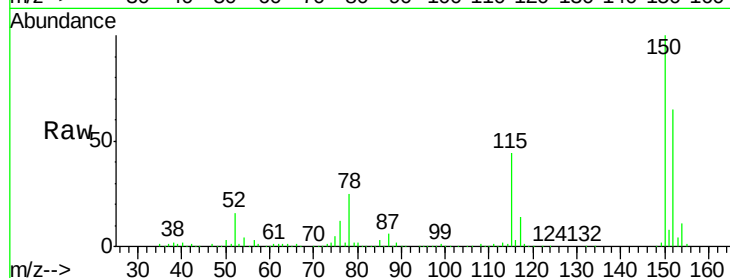
Tgt Ion: 79 Resp: 12376

Ion Ratio Lower Upper

79 100

108 36.9 61.8 92.6#

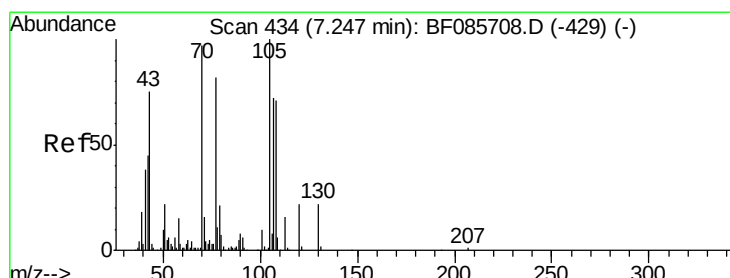
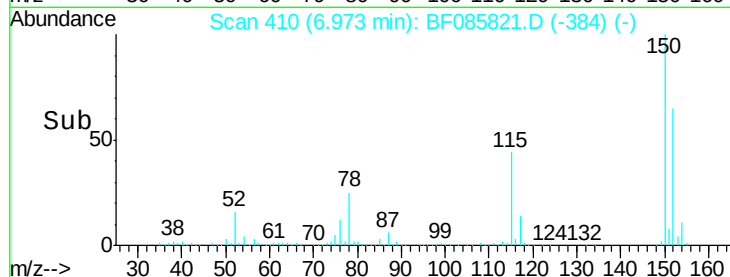
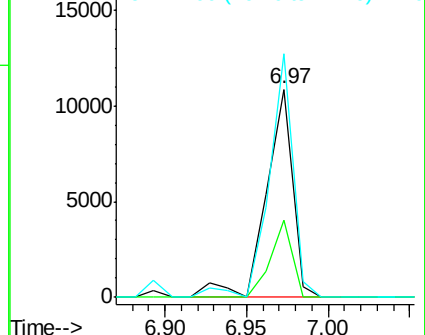
77 116.8 49.6 74.4#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 18.66 ng

RT: 7.38 min Scan# 446

Delta R.T. 0.14 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Tgt Ion: 70 Resp: 96781

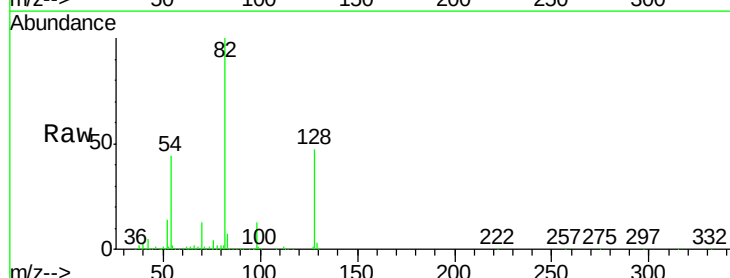
Ion Ratio Lower Upper

70 100

42 38.4 37.1 55.7

101 0.0 8.6 12.8#

130 2.6 19.6 29.4#

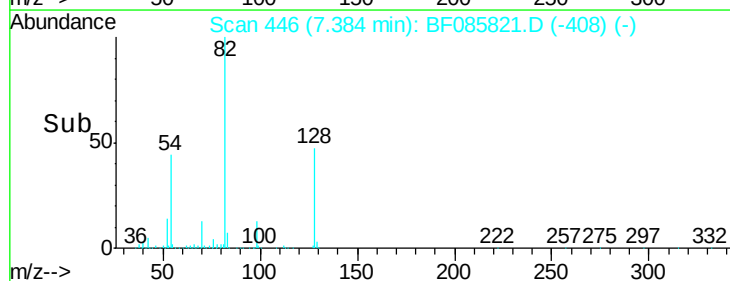
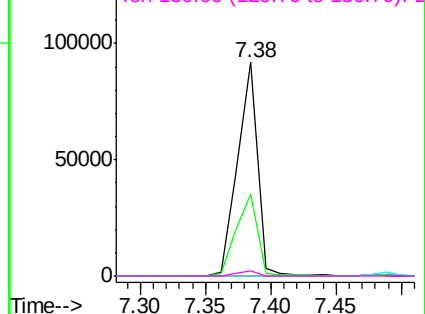


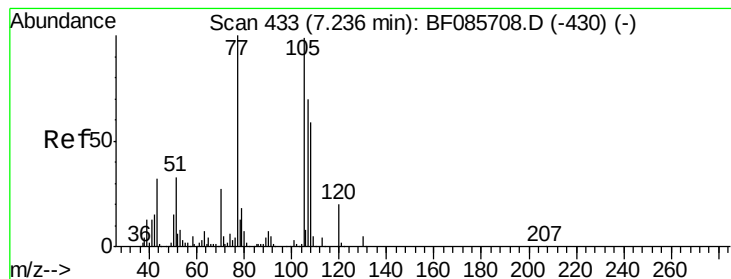
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#20

3+4-Methylphenols

Concen: 2.27 ng

RT: 7.24 min Scan# 433

Delta R.T. -0.00 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

Tgt Ion:107 Resp: 17328

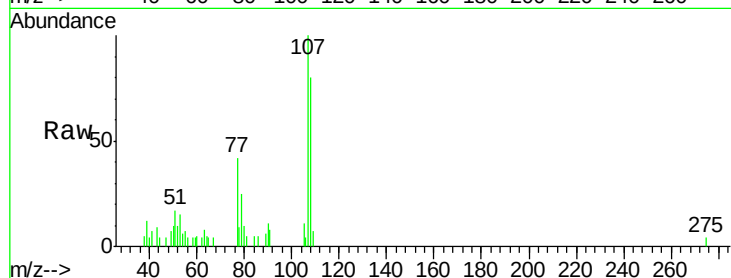
Ion Ratio Lower Upper

107 100

108 79.6 69.3 109.3

77 41.9 101.7 141.7#

79 25.2 8.3 48.3



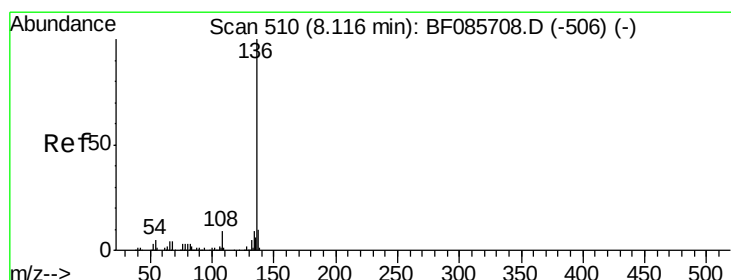
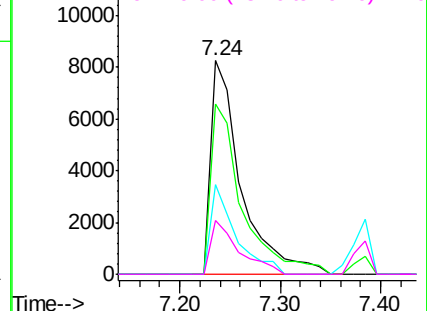
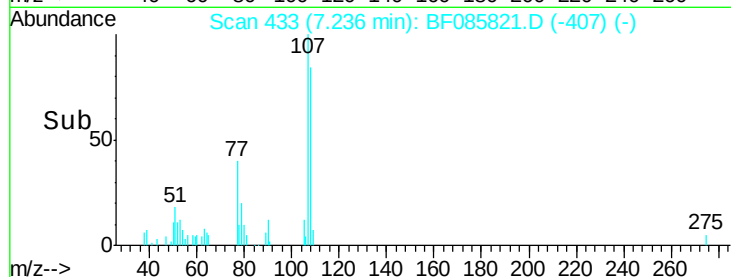
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Tgt Ion:136 Resp: 445356

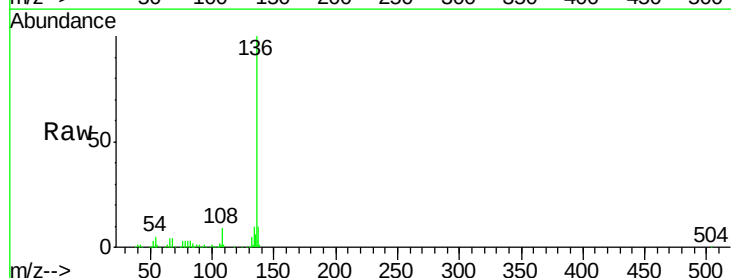
Ion Ratio Lower Upper

136 100

137 10.3 9.1 13.7

54 5.1 7.4 11.0#

68 4.4 5.8 8.8#



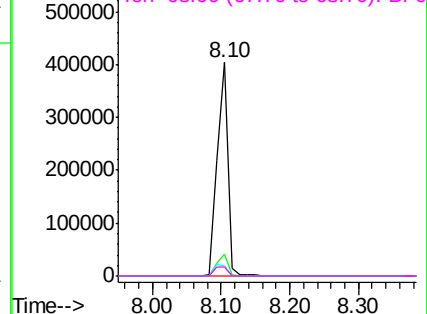
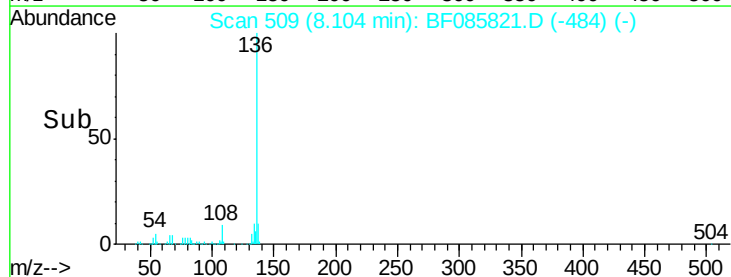
Abundance

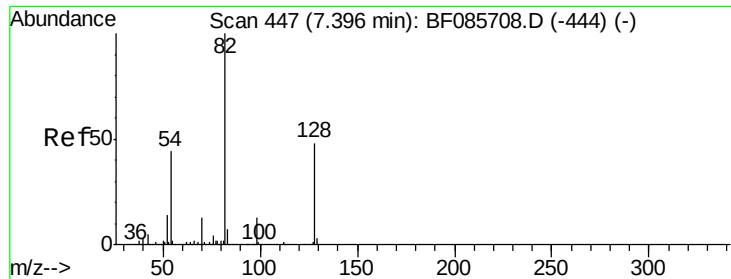
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

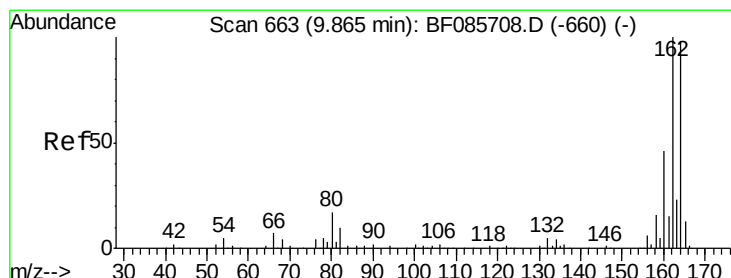
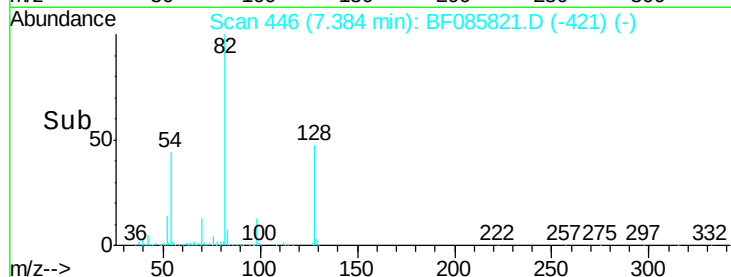
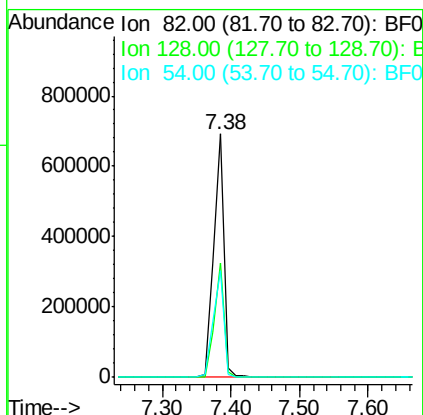
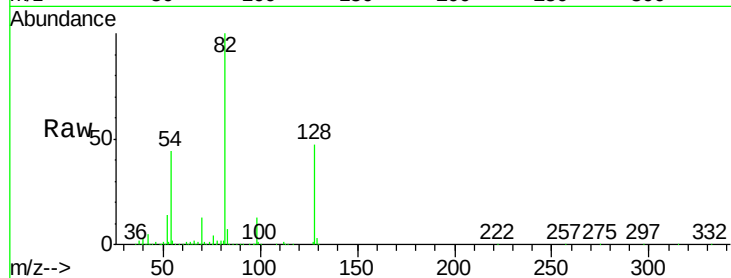




#23
 Nitrobenzene-d5
 Concen: 92.91 ng
 RT: 7.38 min Scan# 446
 Delta R.T. -0.01 min
 Lab File: BF085821.D
 Acq: 29 Mar 2016 00:32

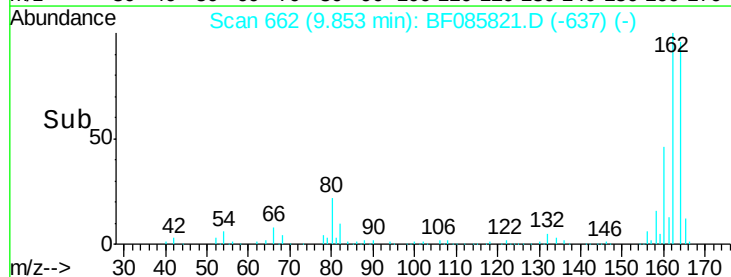
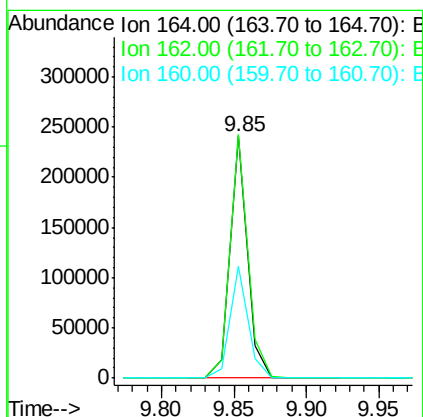
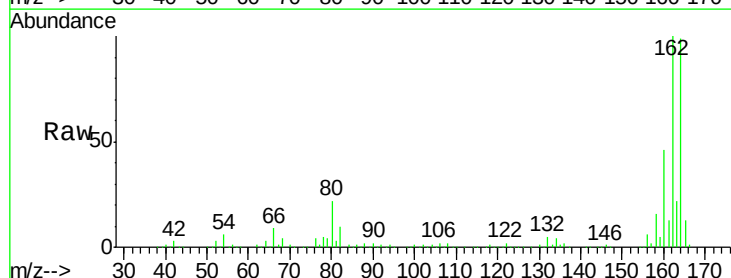
Instrument :
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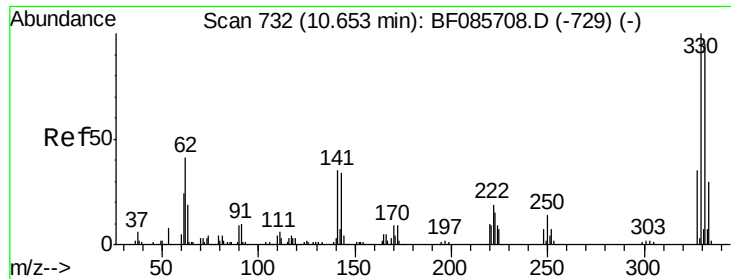
Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.9	41.8	62.8
54	43.8	33.4	50.0



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 662
 Delta R.T. -0.01 min
 Lab File: BF085821.D
 Acq: 29 Mar 2016 00:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.7	82.1	123.1
160	46.3	37.4	56.2

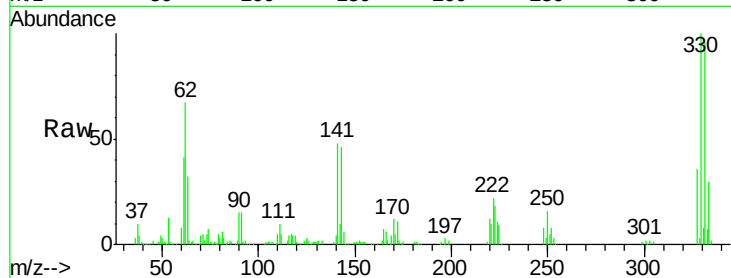




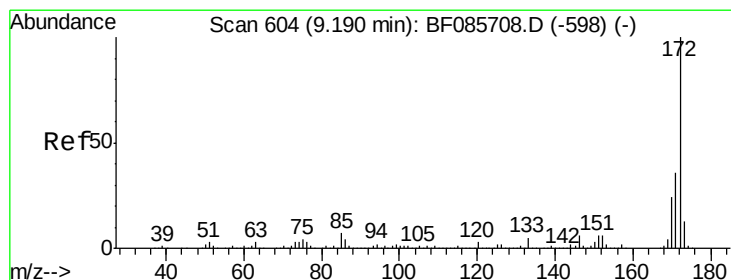
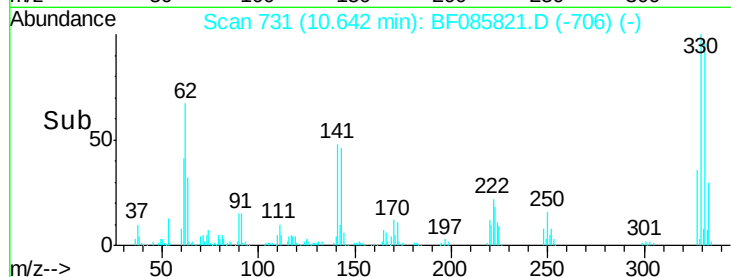
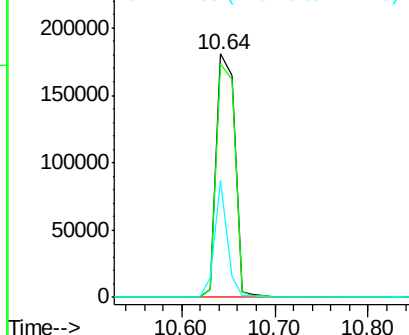
#41
 2,4,6-Tribromophenol
 Concen: 130.17 ng
 RT: 10.64 min Scan# 731
 Delta R.T. -0.01 min
 Lab File: BF085821.D
 Acq: 29 Mar 2016 00:32

Instrument :
 BNA_F
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 NCB-083-CS-1(0-21FTBGS)

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.2	117.2
141	33.6	31.5	47.3

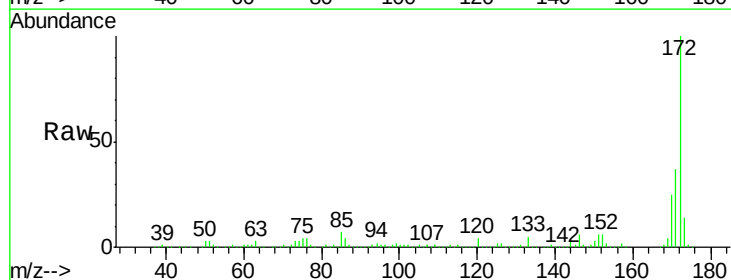


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

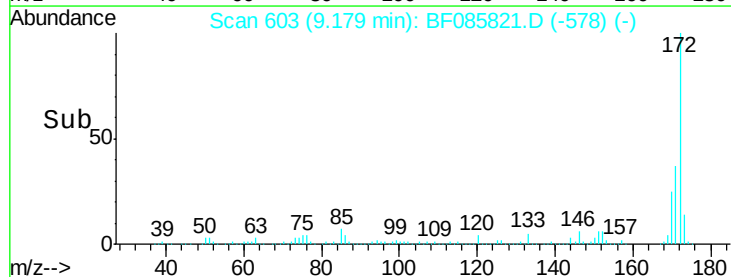
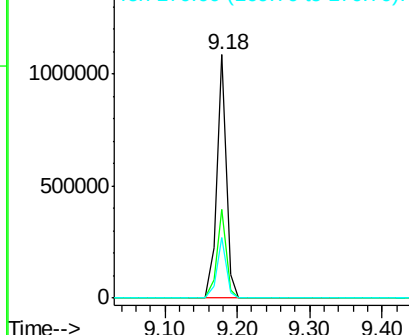


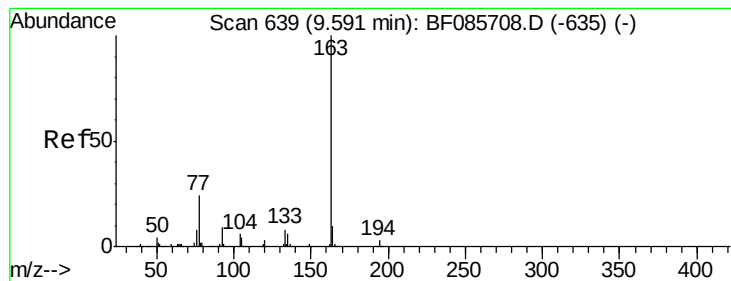
#44
 2-Fluorobiphenyl
 Concen: 82.09 ng
 RT: 9.18 min Scan# 603
 Delta R.T. -0.01 min
 Lab File: BF085821.D
 Acq: 29 Mar 2016 00:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.4	44.2
170	24.9	19.8	29.6



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

Dimethylphthalate

Concen: 9.81 ng

RT: 9.58 min Scan# 638

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

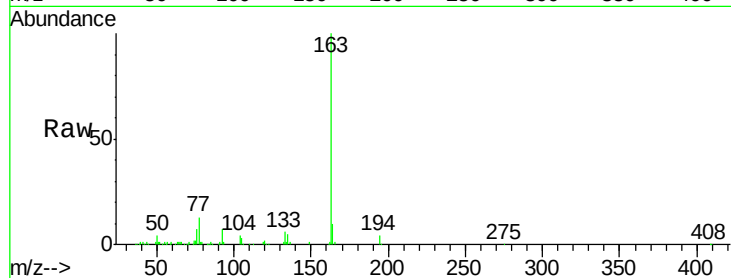
Tgt Ion:163 Resp: 149312

Ion Ratio Lower Upper

163 100

194 3.9 2.9 4.3

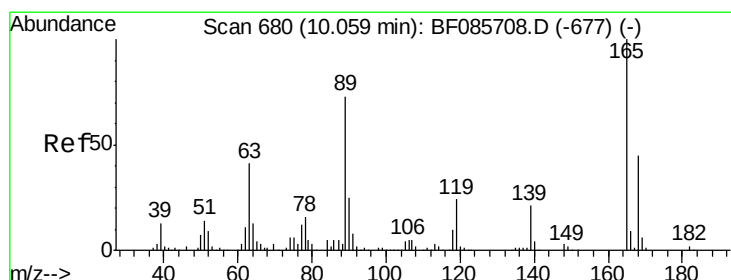
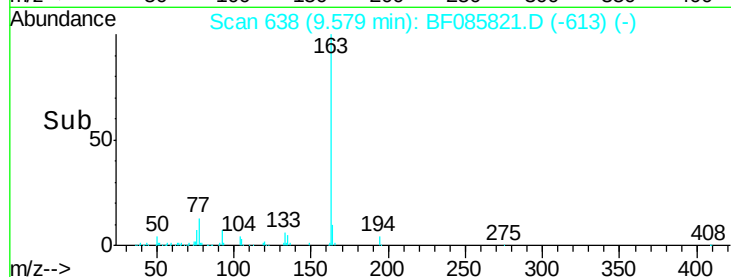
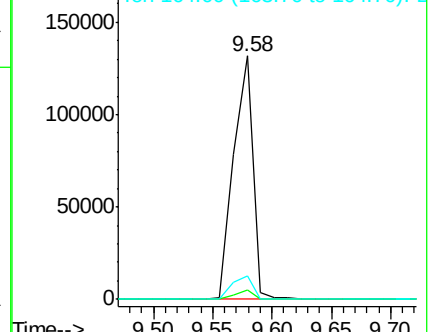
164 9.9 8.3 12.5



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



#56

2,4-Dinitrotoluene

Concen: 6.19 ng

RT: 9.85 min Scan# 662

Delta R.T. -0.21 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Tgt Ion:165 Resp: 25766

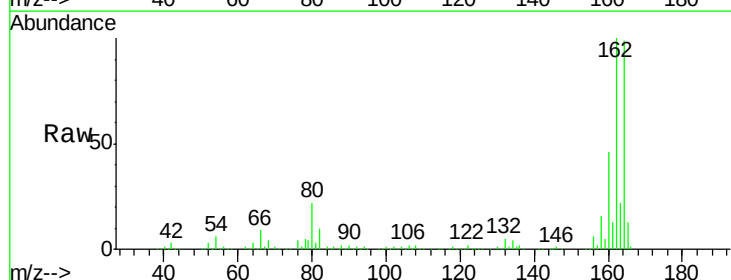
Ion Ratio Lower Upper

165 100

63 1.3 24.9 37.3#

89 2.3 41.0 61.6#

182 0.0 2.1 3.1#

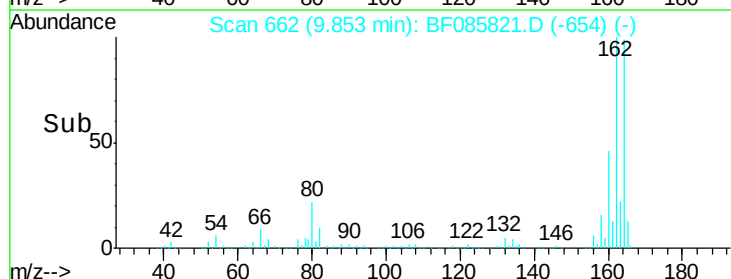
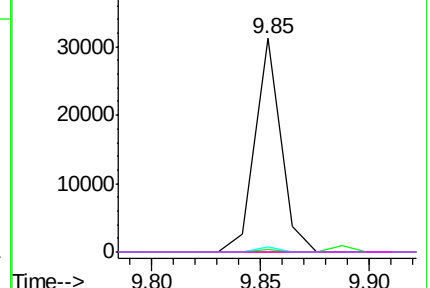


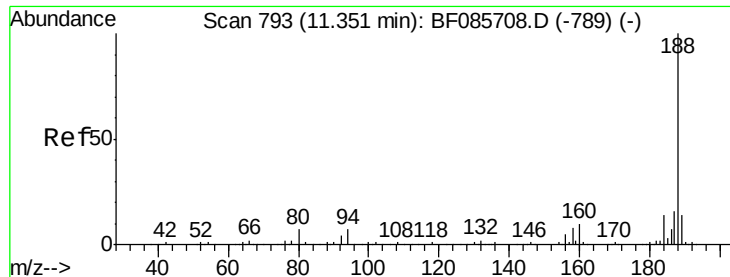
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

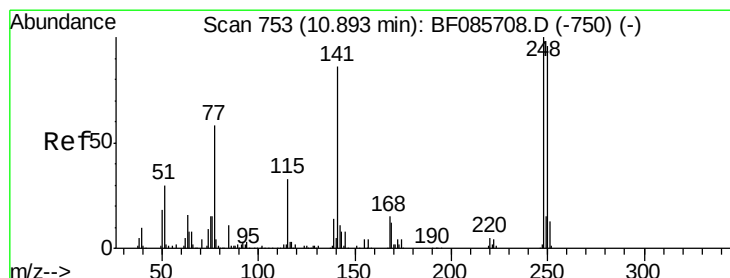
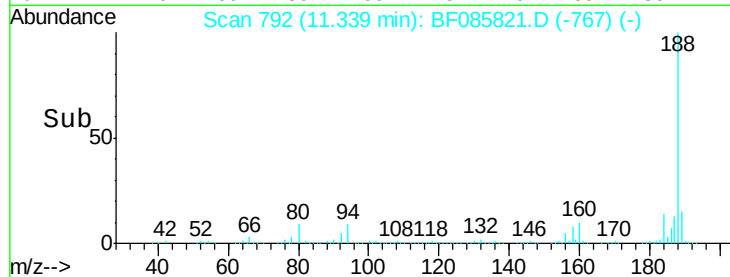
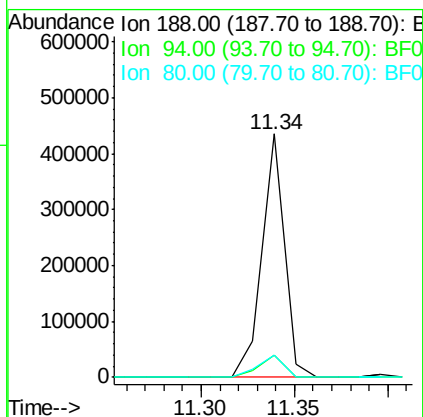
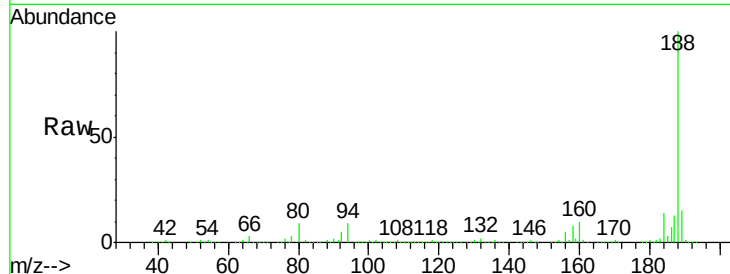




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF085821.D
Acq: 29 Mar 2016 00:32

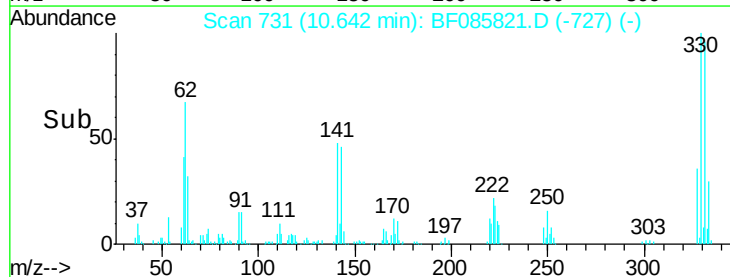
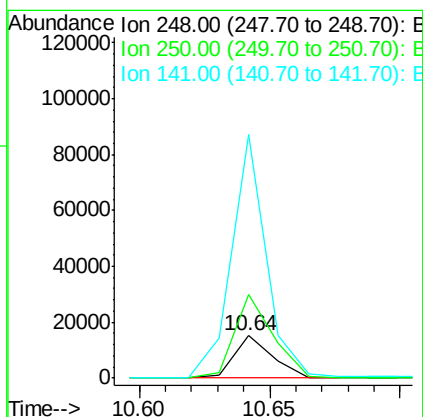
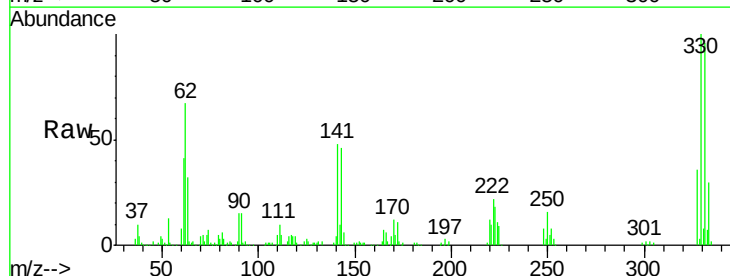
Instrument :
BNA_F
ClientSampleId :
NCB-083-CS-1(0-21FTBGS)

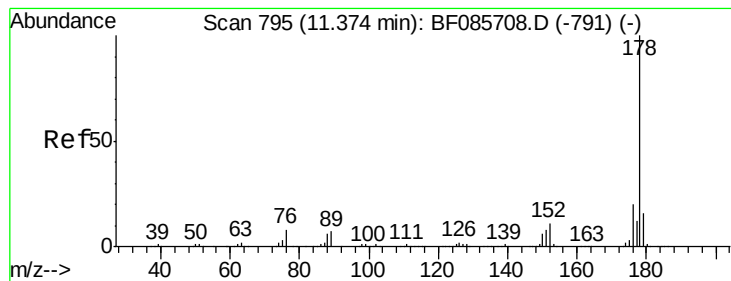
Tgt Ion:188 Resp: 362135
Ion Ratio Lower Upper
188 100
94 8.9 5.4 8.0#
80 9.1 5.5 8.3#



#66
4-Bromophenyl-phenylether
Concen: 4.18 ng
RT: 10.64 min Scan# 731
Delta R.T. -0.25 min
Lab File: BF085821.D
Acq: 29 Mar 2016 00:32

Tgt Ion:248 Resp: 15478
Ion Ratio Lower Upper
248 100
250 196.3 77.4 116.0#
141 574.6 63.6 95.4#





#70

Phenanthrene

Concen: 8.94 ng

RT: 11.36 min Scan# 794

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

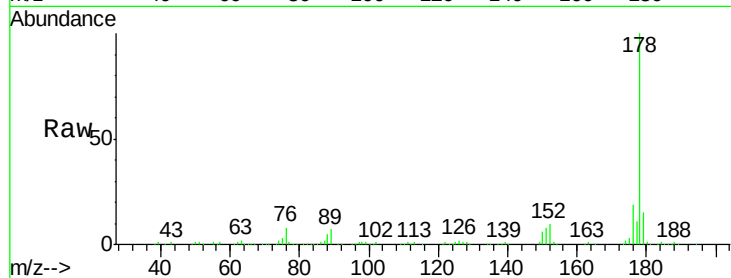
Tgt Ion:178 Resp: 166258

Ion Ratio Lower Upper

178 100

176 19.0 16.3 24.5

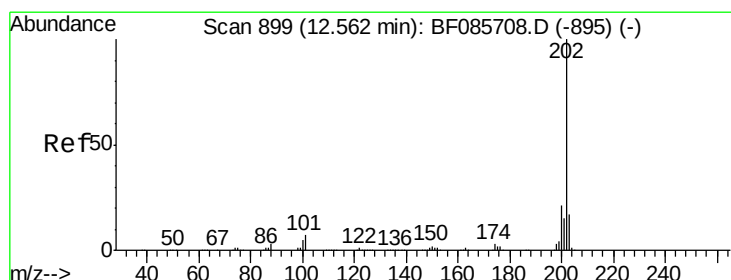
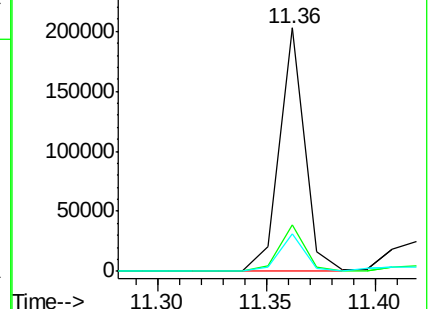
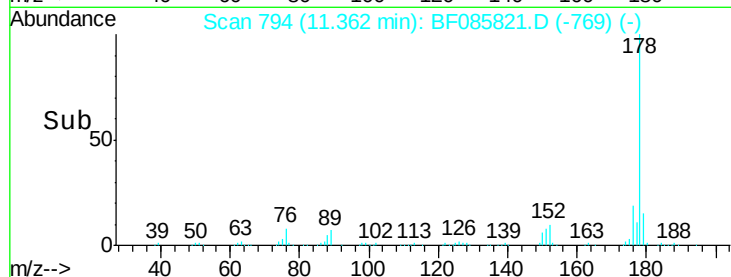
179 15.2 12.6 18.8



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: 11.89 ng

RT: 12.55 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

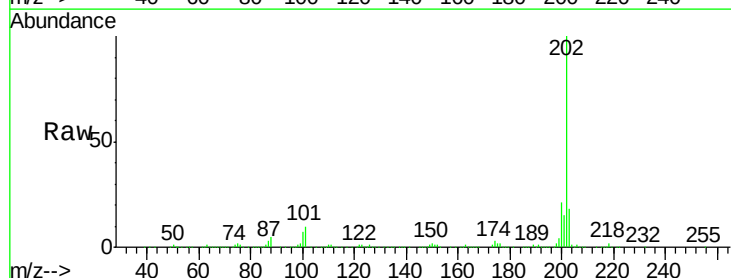
Tgt Ion:202 Resp: 234928

Ion Ratio Lower Upper

202 100

101 9.7 0.0 36.6

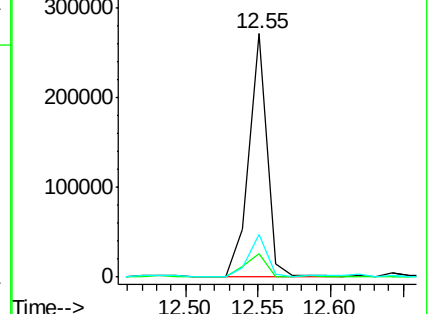
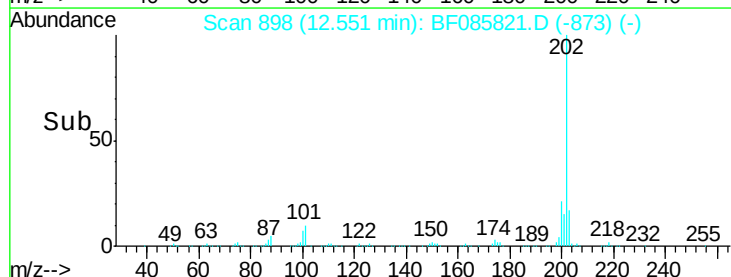
203 17.6 0.0 38.1

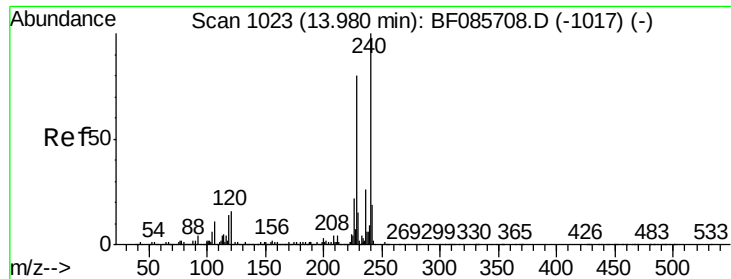


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

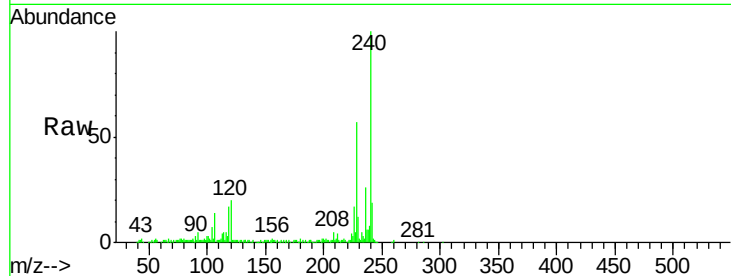
Tgt Ion:240 Resp: 198705

Ion Ratio Lower Upper

240 100

120 19.6 13.8 20.8

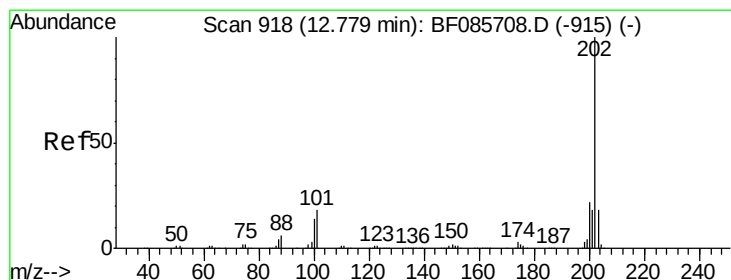
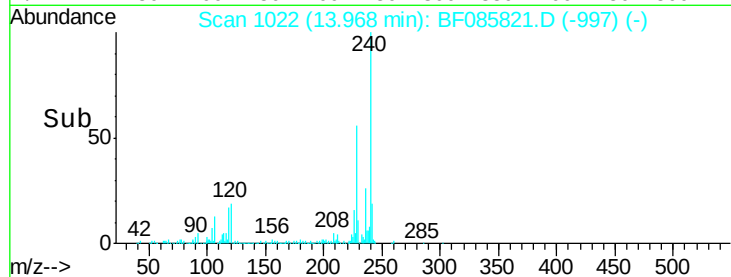
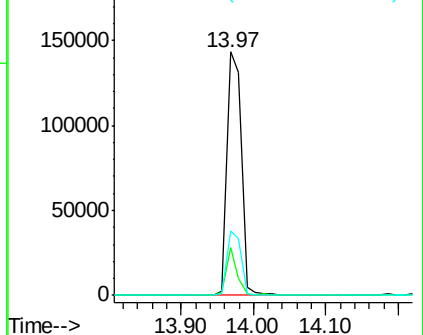
236 26.2 20.6 30.8



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

Pyrene

Concen: 15.94 ng

RT: 12.78 min Scan# 918

Delta R.T. -0.00 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

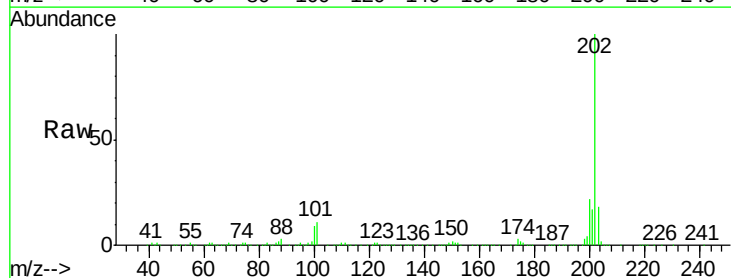
Tgt Ion:202 Resp: 260304

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

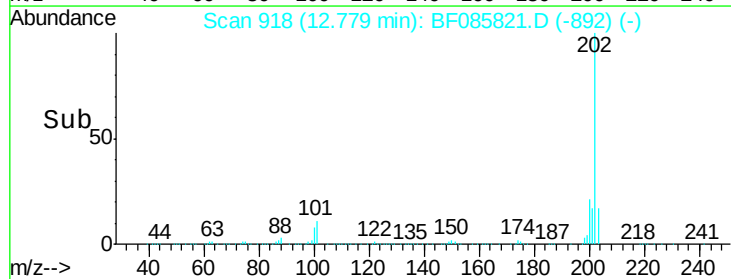
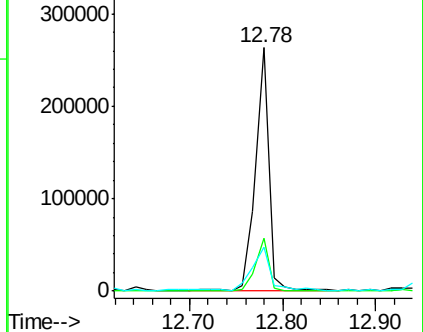
203 17.8 14.0 21.0

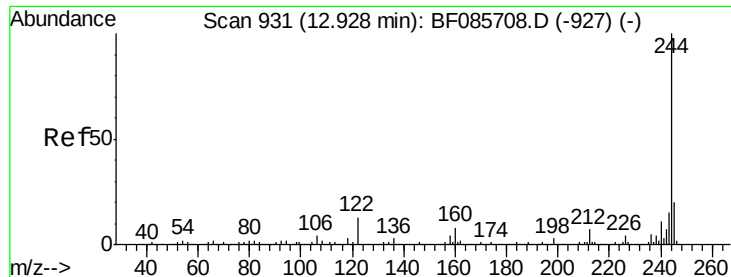


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

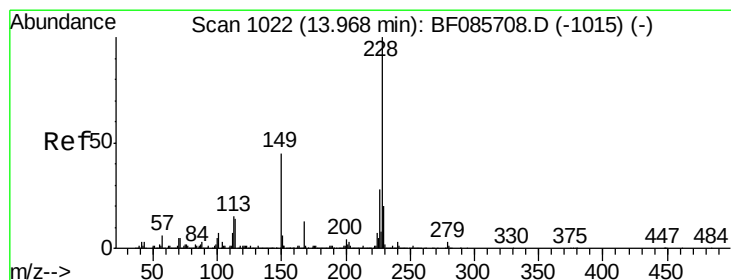
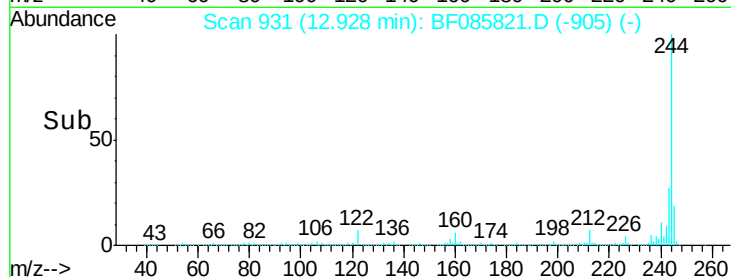
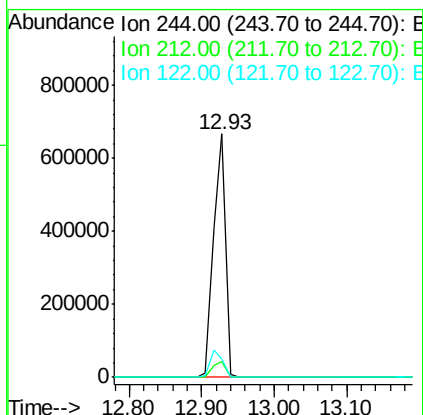
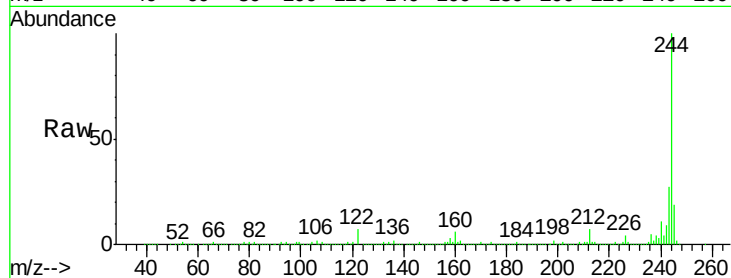




#78
 Terphenyl-d14
 Concen: 78.55 ng
 RT: 12.93 min Scan# 931
 Delta R.T. -0.00 min
 Lab File: BF085821.D
 Acq: 29 Mar 2016 00:32

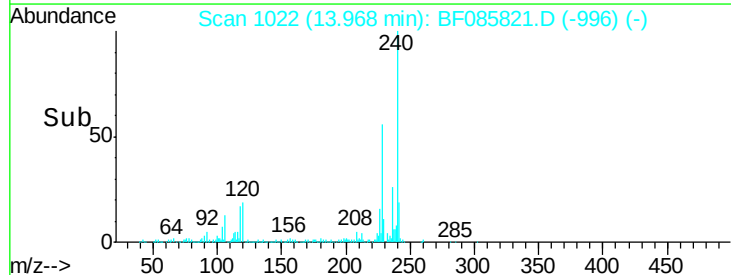
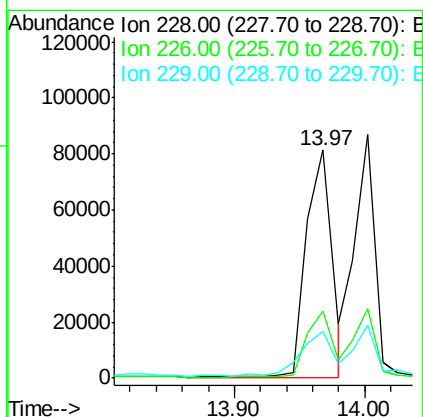
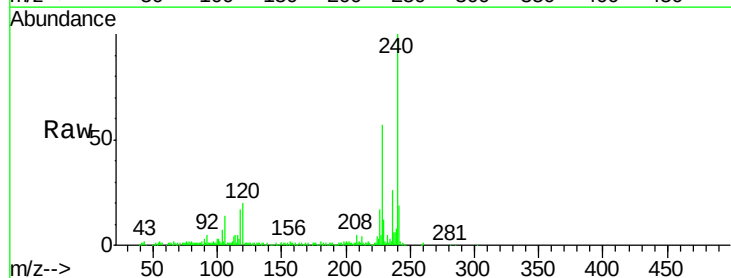
Instrument :
 BNA_F
 ClientSampleId :
 NCB-083-CS-1(0-21FTBGS)

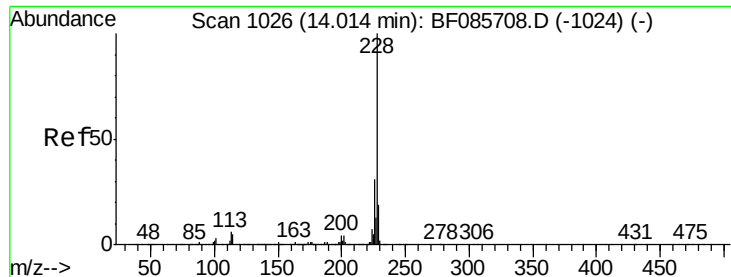
Tgt Ion:244 Resp: 758926
 Ion Ratio Lower Upper
 244 100
 212 6.7 6.1 9.1
 122 7.4 10.2 15.4#



#80
 Benzo(a)anthracene
 Concen: 9.67 ng
 RT: 13.97 min Scan# 1022
 Delta R.T. -0.00 min
 Lab File: BF085821.D
 Acq: 29 Mar 2016 00:32

Tgt Ion:228 Resp: 109524
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.1 33.1
 229 20.6 16.2 24.4





#82

Chrysene

Concen: 9.60 ng

RT: 13.97 min Scan# 1022

Delta R.T. -0.05 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

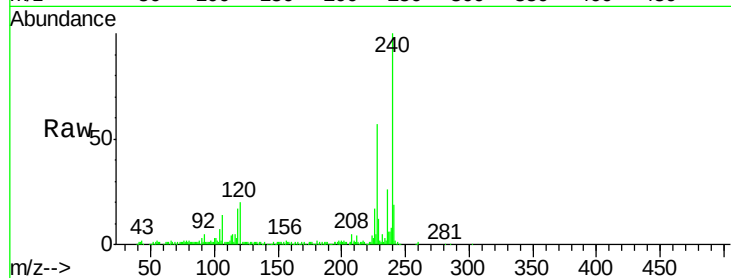
Tgt Ion: 228 Resp: 109524

Ion Ratio Lower Upper

228 100

226 29.6 25.0 37.6

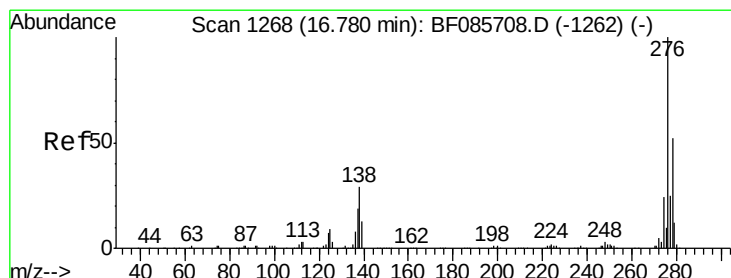
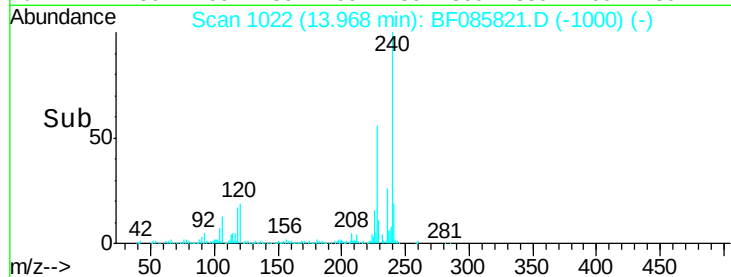
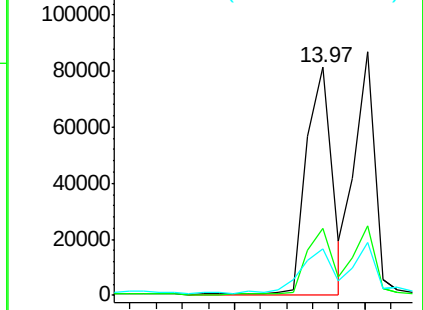
229 20.6 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.18 ng

RT: 16.77 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

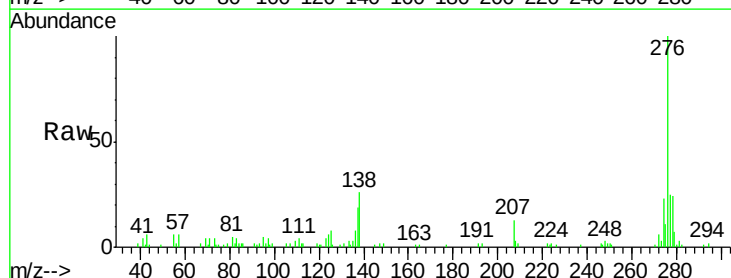
Tgt Ion: 276 Resp: 45665

Ion Ratio Lower Upper

276 100

138 26.4 24.2 36.4

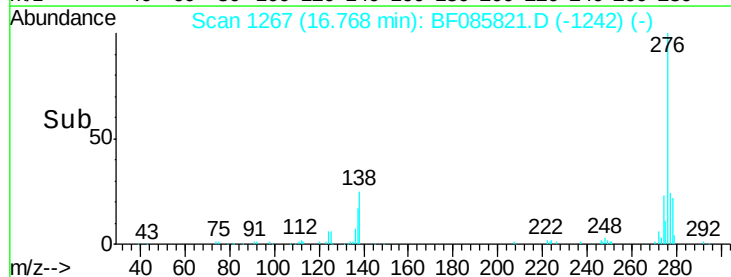
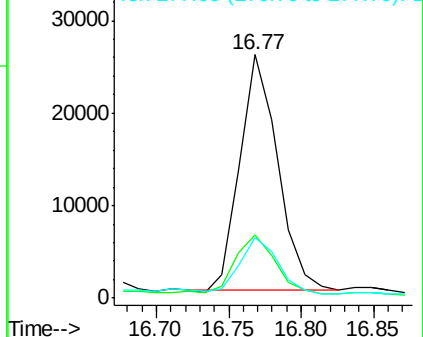
277 24.1 20.0 30.0

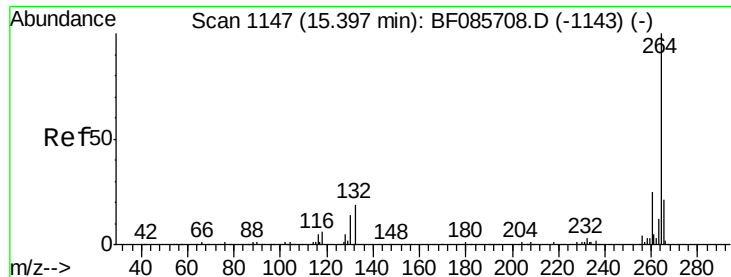


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.40 min Scan# 1147

Delta R.T. -0.00 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

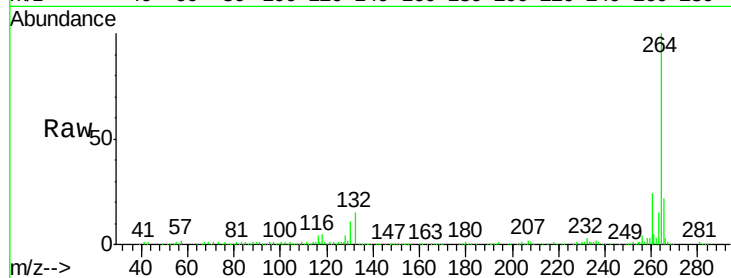
Tgt Ion:264 Resp: 194646

Ion Ratio Lower Upper

264 100

260 24.1 19.4 29.2

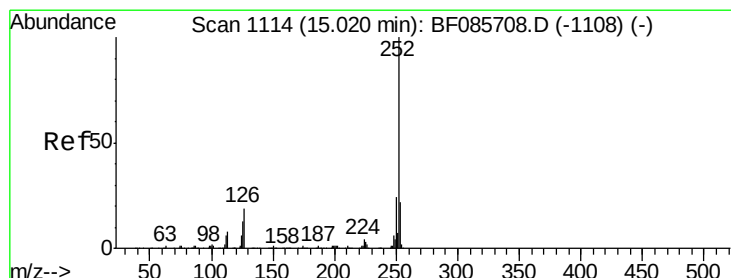
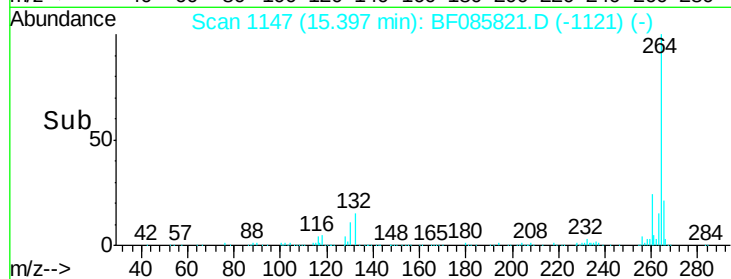
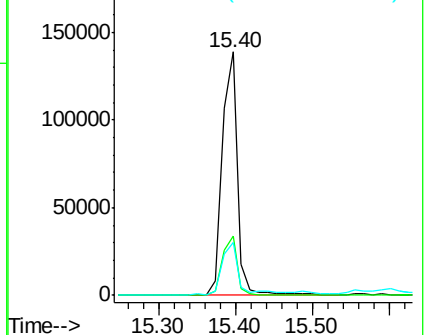
265 21.6 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 10.66 ng

RT: 14.99 min Scan# 1111

Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

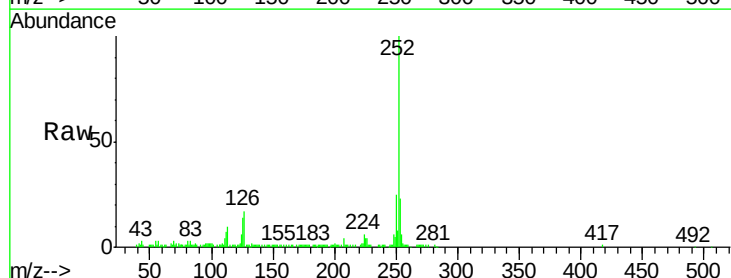
Tgt Ion:252 Resp: 130700

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

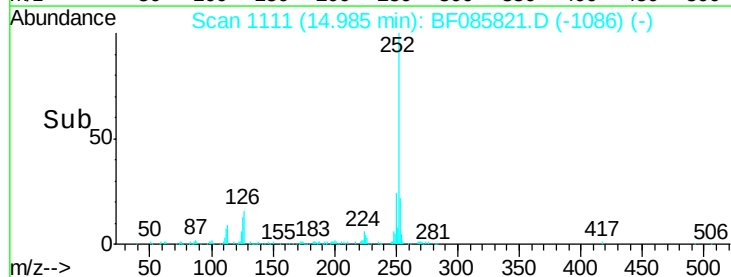
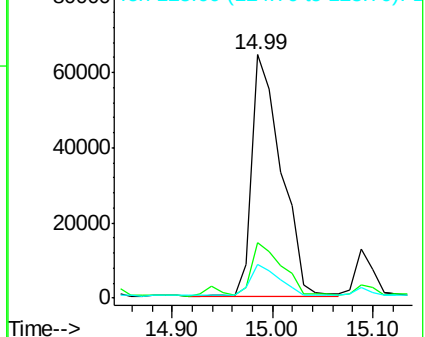
125 13.6 10.3 15.5

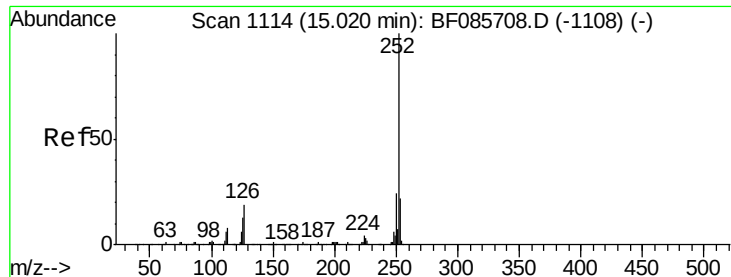


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 11.82 ng

RT: 14.99 min Scan# 1111

Delta R.T. -0.03 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

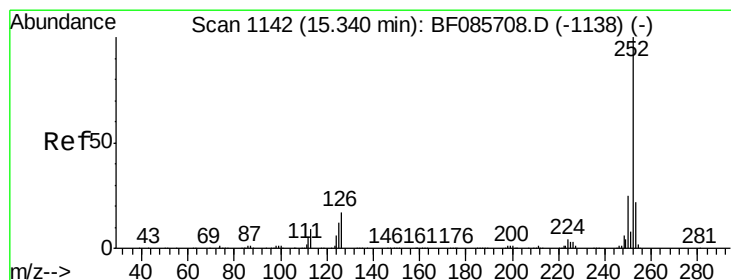
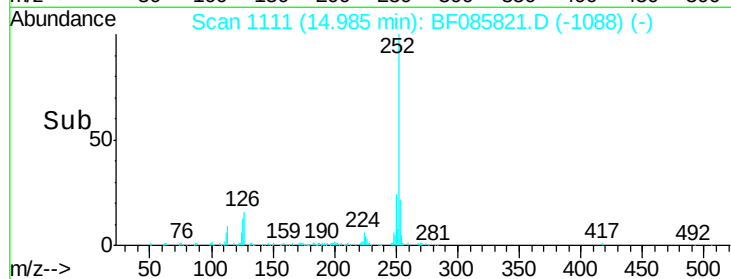
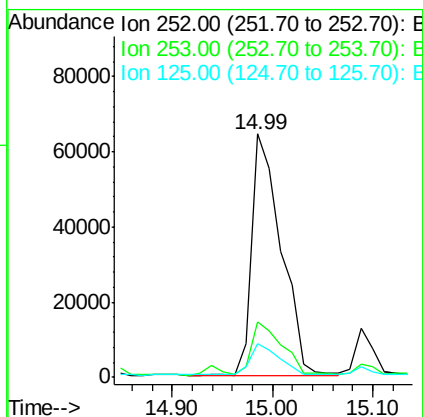
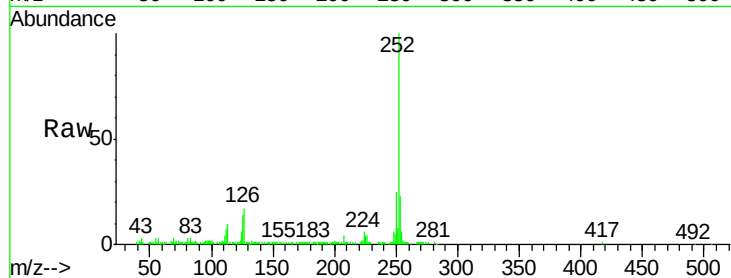
Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)

Tgt Ion:	252	Resp:	130700
Ion Ratio		Lower	Upper
252	100		
253	23.0	17.8	26.6
125	13.6	7.7	11.5#



#89

Benzo(a)pyrene

Concen: 7.85 ng

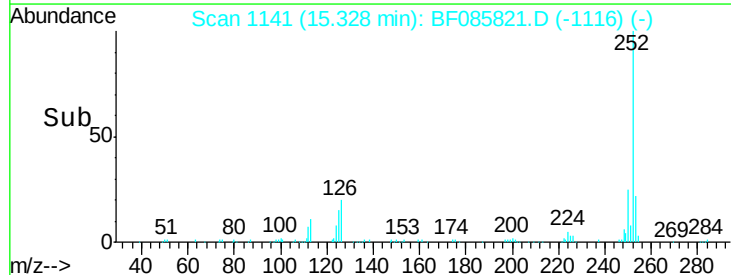
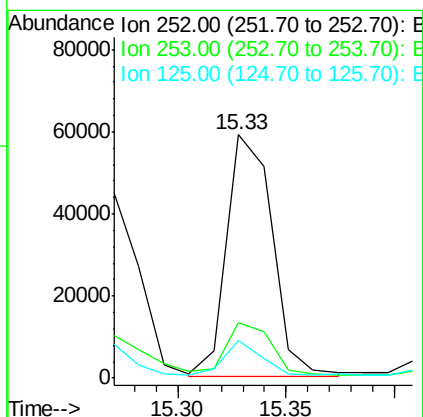
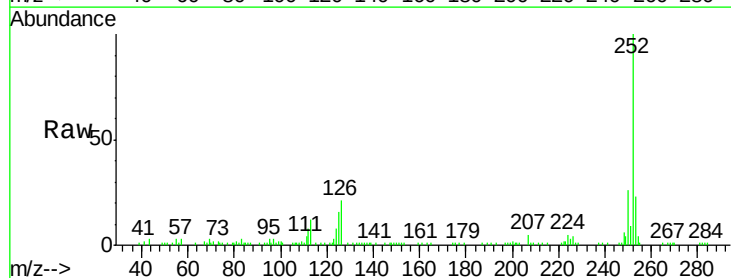
RT: 15.33 min Scan# 1141

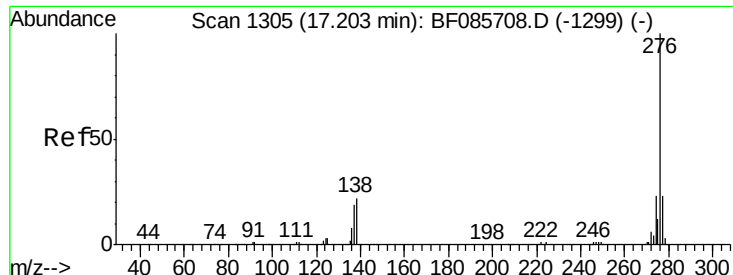
Delta R.T. -0.01 min

Lab File: BF085821.D

Acq: 29 Mar 2016 00:32

Tgt Ion:	252	Resp:	85465
Ion Ratio		Lower	Upper
252	100		
253	22.8	17.4	26.0
125	15.7	10.3	15.5#





#91

Benzo(g,h,i)perylene

Concen: 5.02 ng

RT: 17.18 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF085821.D

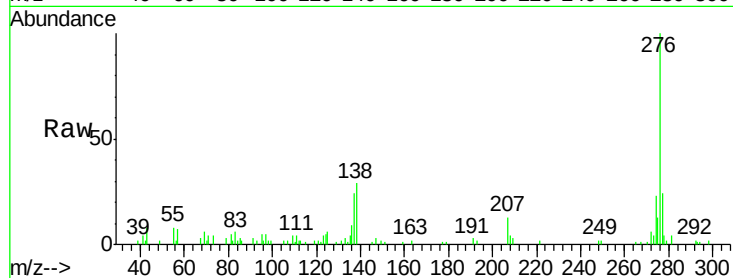
Acq: 29 Mar 2016 00:32

Instrument :

BNA_F

ClientSampleId :

NCB-083-CS-1(0-21FTBGS)



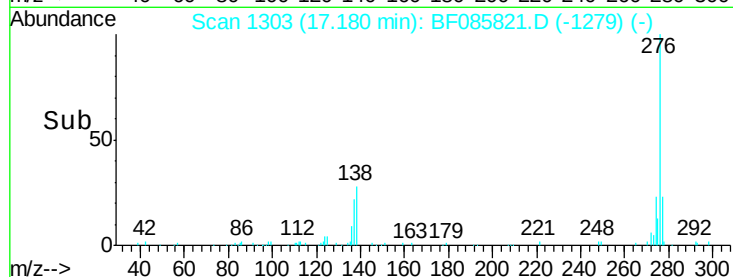
Tgt Ion: 276 Resp: 51445

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 29.0 22.6 34.0



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

