

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086079.D
 Acq On : 5 Apr 2016 12:02
 Operator : UM/SJ
 Sample : H2025-01DL 5X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-PH3-SOIL-32816DL

Quant Time: Apr 05 12:56:22 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

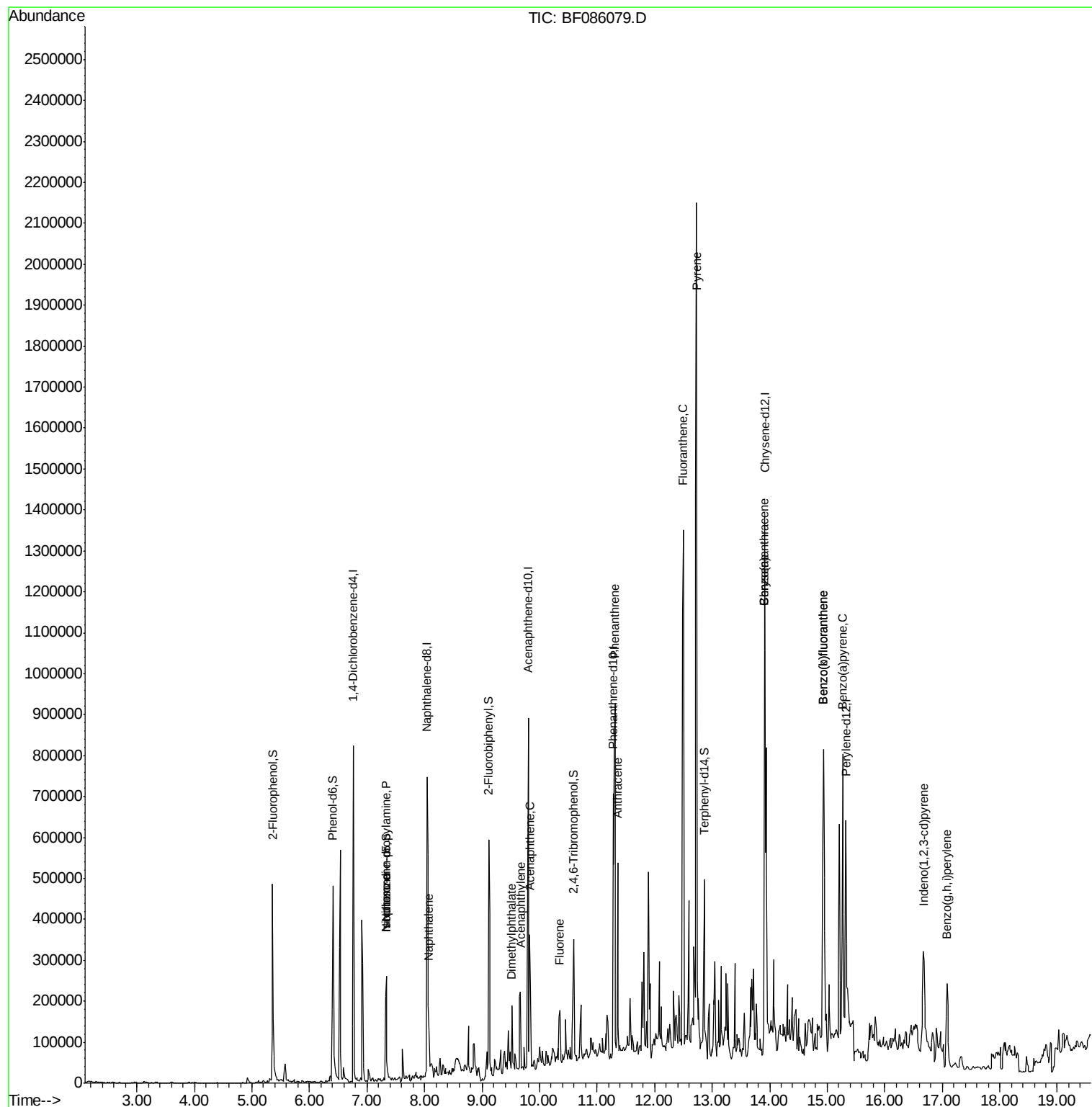
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	125787	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	461867	20.00	ng	-0.02
38) Acenaphthene-d10	9.80	164	193597	20.00	ng	-0.01
63) Phenanthrene-d10	11.28	188	306278	20.00	ng	-0.02
75) Chrysene-d12	13.92	240	237718	20.00	ng	-0.01
86) Perylene-d12	15.32	264	213330	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	190575	25.90	ng	-0.01
7) Phenol-d6	6.41	99	246758	26.40	ng	-0.01
23) Nitrobenzene-d5	7.33	82	138747	17.72	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	38139	20.99	ng	-0.01
44) 2-Fluorobiphenyl	9.12	172	225747	19.39	ng	-0.02
78) Terphenyl-d14	12.87	244	137433	13.59	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.33	70	19895	3.43	ng	# 78
25) Isophorone	7.33	82	138745	8.97	ng	# 68
31) Naphthalene	8.06	128	92386	3.98	ng	100
48) Acenaphthylene	9.66	152	122011	6.29	ng	97
49) Dimethylphthalate	9.52	163	40050	2.79	ng	97
51) Acenaphthene	9.82	154	86546	7.51	ng	100
57) Fluorene	10.35	166	56325	4.33	ng	98
70) Phenanthrene	11.31	178	480148	28.74	ng	99
71) Anthracene	11.36	178	175702	10.04	ng	98
74) Fluoranthene	12.50	202	702301	40.41	ng	90
77) Pyrene	12.73	202	1038083	61.97	ng	100
80) Benzo(a)anthracene	13.91	228	407812	29.10	ng	# 88
82) Chrysene	13.91	228	407812	30.21	ng	# 92
85) Indeno(1,2,3-cd)pyrene	16.67	276	156393	14.28	ng	94
87) Benzo(b)fluoranthene	14.93	252	477013	35.55	ng	100
88) Benzo(k)fluoranthene	14.93	252	477013	40.14	ng	# 97
89) Benzo(a)pyrene	15.27	252	276505	23.25	ng	99
91) Benzo(g,h,i)perylene	17.08	276	161741	17.47	ng	96

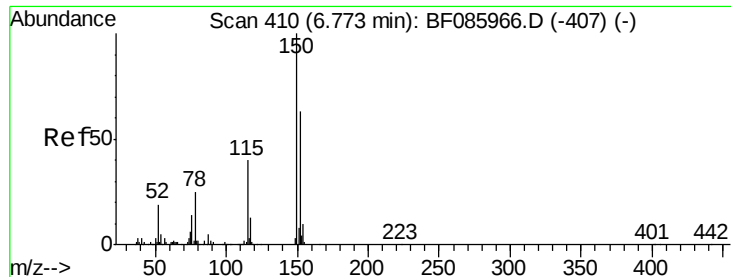
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

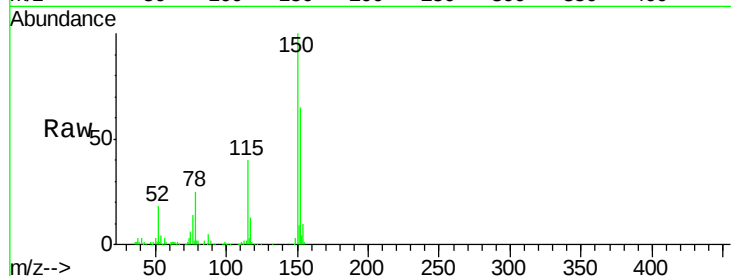
Tot Ion:152 Resp: 125787

Ion Ratio Lower Upper

152 100

150 153.4 124.2 186.2

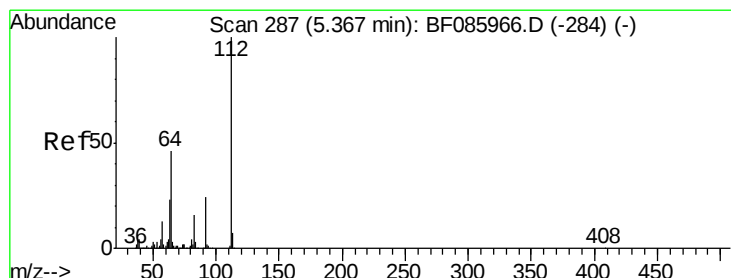
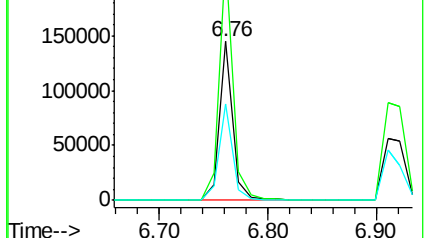
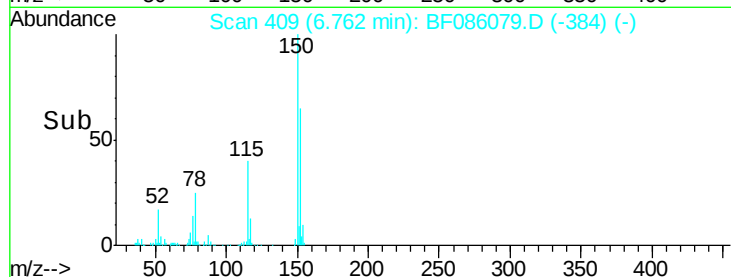
115 60.7 47.0 70.6



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: 25.90 ng

RT: 5.36 min Scan# 286

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

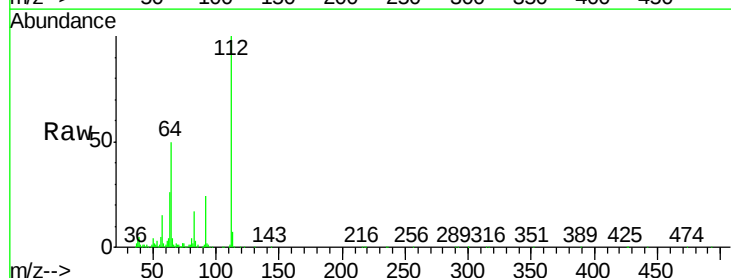
Tgt Ion:112 Resp: 190575

Ion Ratio Lower Upper

112 100

64 50.4 39.9 59.9

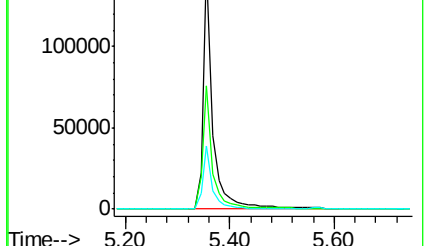
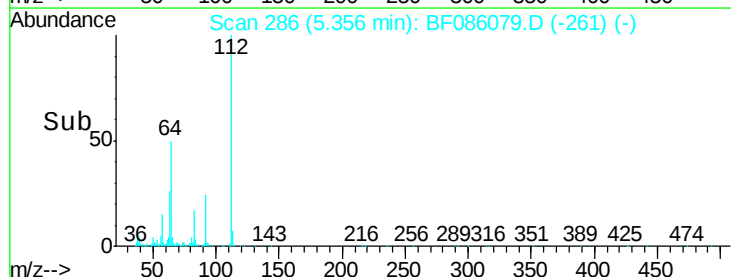
63 25.9 20.2 30.2

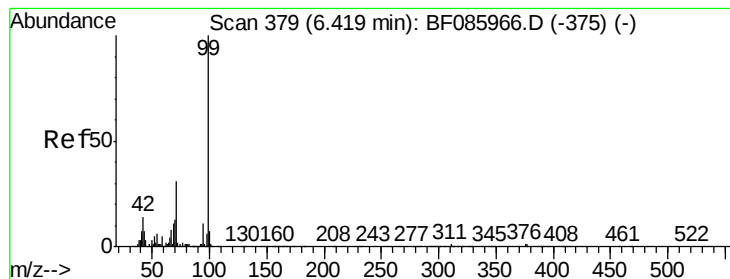


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 26.40 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleID :

CS-PH3-SOIL-32816DL

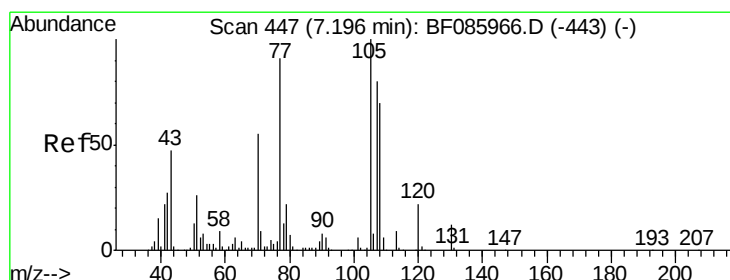
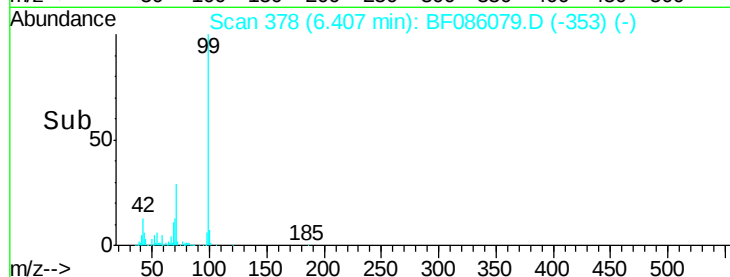
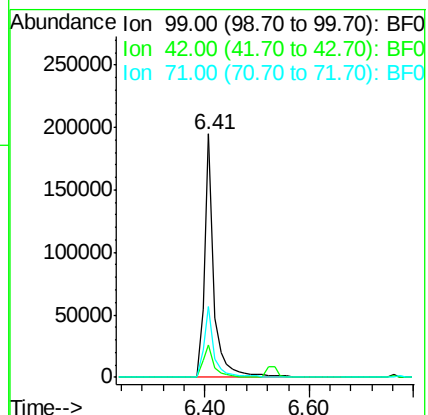
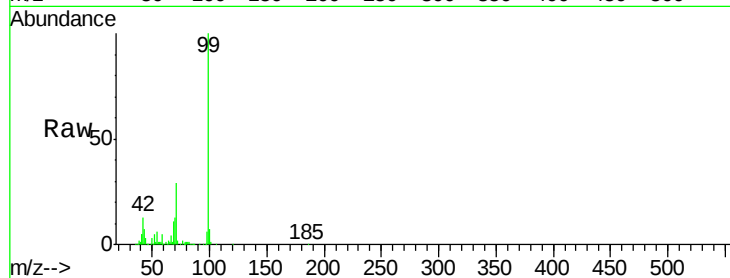
Tot Ion: 99 Resp: 246758

Ion Ratio Lower Upper

99 100

42 13.4 11.1 16.7

71 29.3 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 3.43 ng

RT: 7.33 min Scan# 459

Delta R.T. 0.14 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Tgt Ion: 70 Resp: 19895

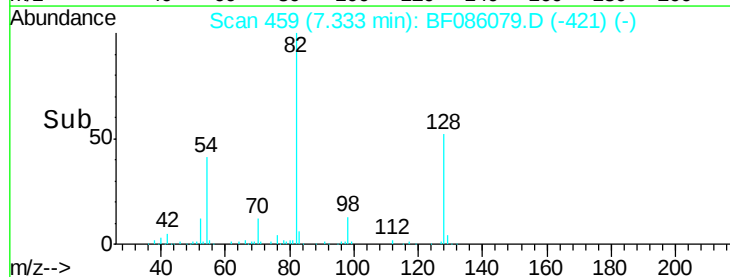
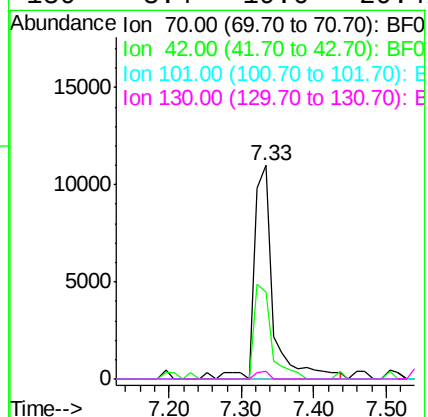
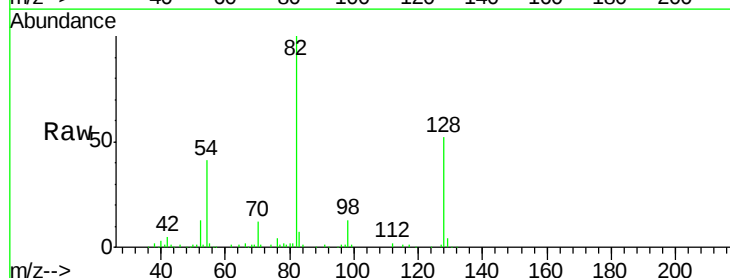
Ion Ratio Lower Upper

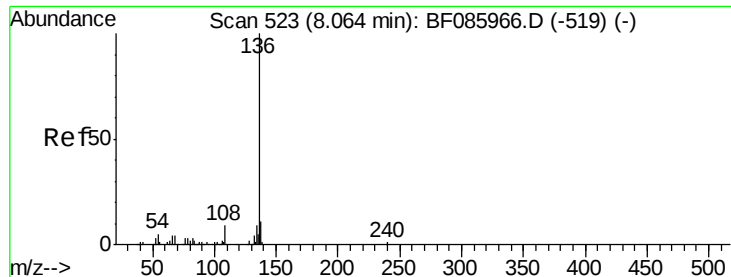
70 100

42 40.5 37.1 55.7

101 0.0 8.6 12.8#

130 3.4 19.6 29.4#

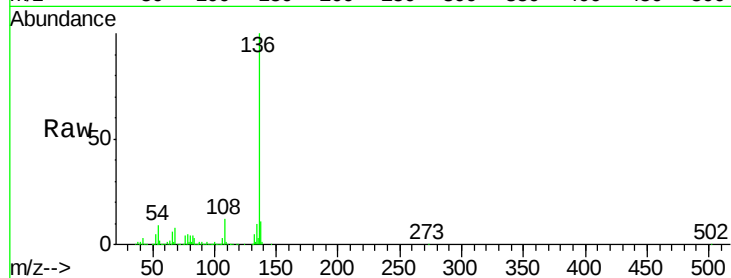




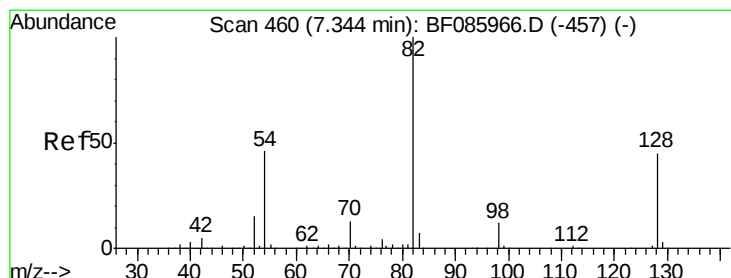
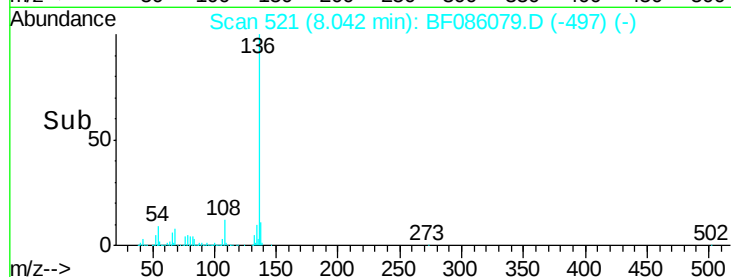
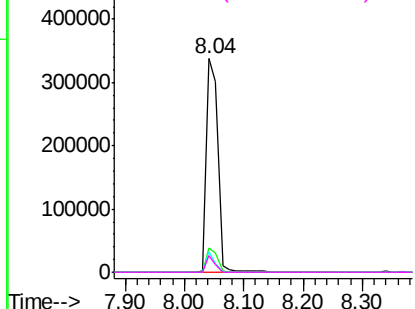
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.04 min Scan# 521
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion:136	Resp:	461867
Ion Ratio	Lower	Upper
136	100	
137	11.3	9.1 13.7
54	9.3	7.4 11.0
68	7.7	5.8 8.8

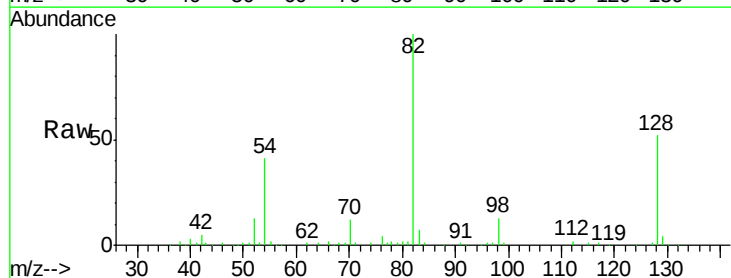


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

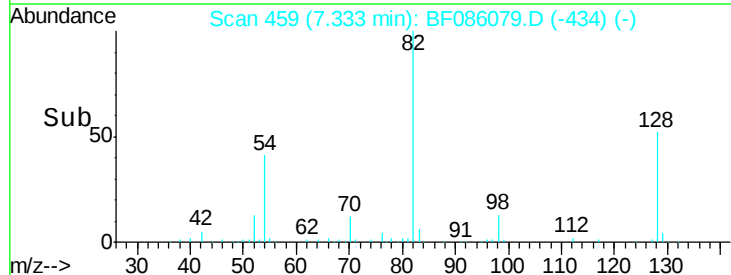
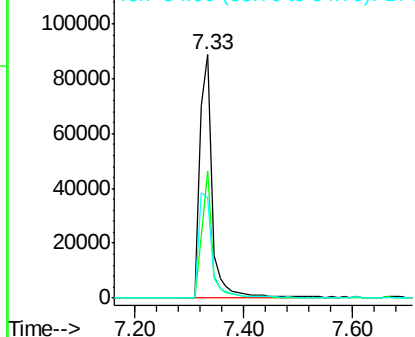


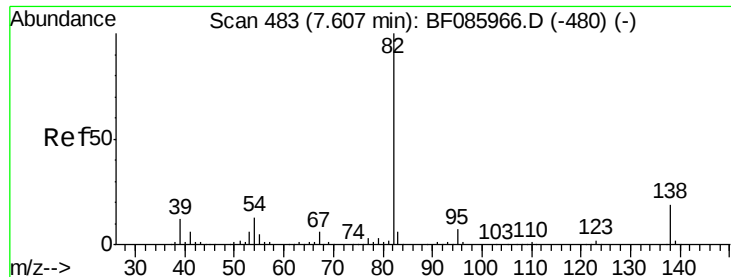
#23
Nitrobenzene-d5
Concen: 17.72 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion: 82	Resp:	138747
Ion Ratio	Lower	Upper
82	100	
128	52.0	41.8 62.8
54	40.9	33.4 50.0



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.97 ng

RT: 7.33 min Scan# 459

Delta R.T. -0.27 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

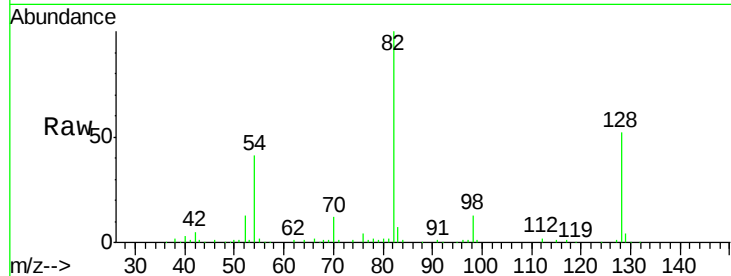
Tot Ion: 82 Resp: 138745

Ion Ratio Lower Upper

82 100

95 0.4 5.4 8.2#

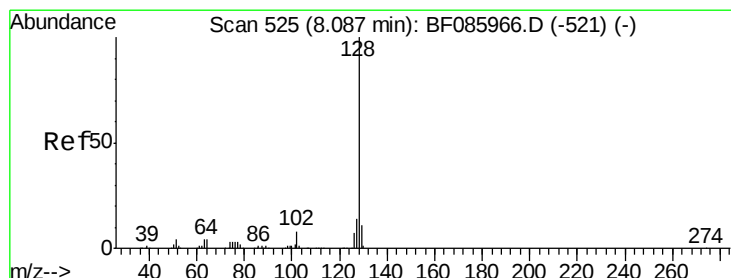
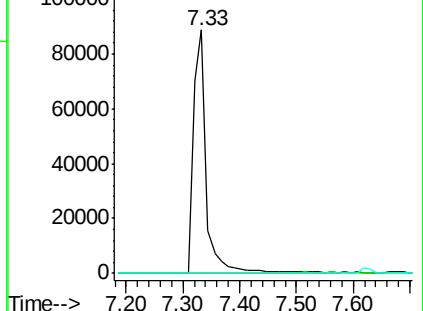
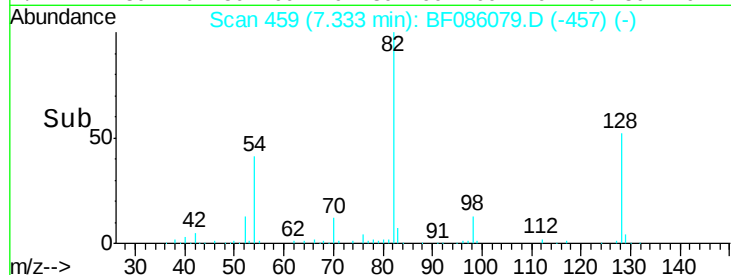
138 0.0 12.9 19.3#



Abundance Ion 82.00 (81.70 to 82.70): BF086079.D (-457) (-)

Ion 95.00 (94.70 to 95.70): BF086079.D (-457) (-)

Ion 138.00 (137.70 to 138.70): BF086079.D (-457) (-)



#31

Naphthalene

Concen: 3.98 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.02 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

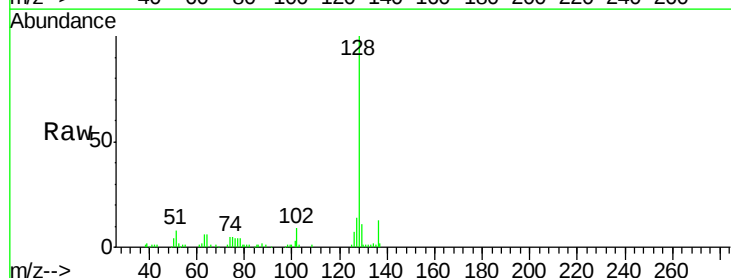
Tgt Ion: 128 Resp: 92386

Ion Ratio Lower Upper

128 100

129 11.5 9.4 14.0

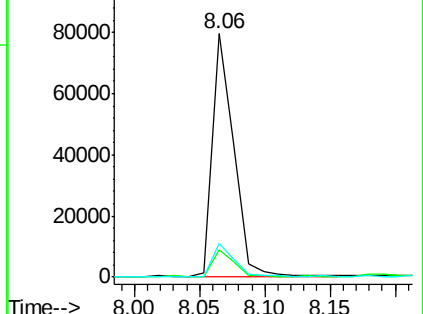
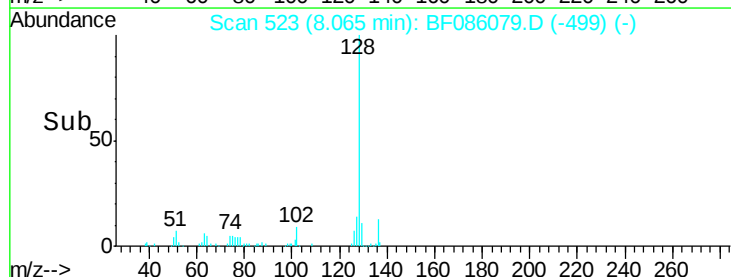
127 13.9 11.0 16.6

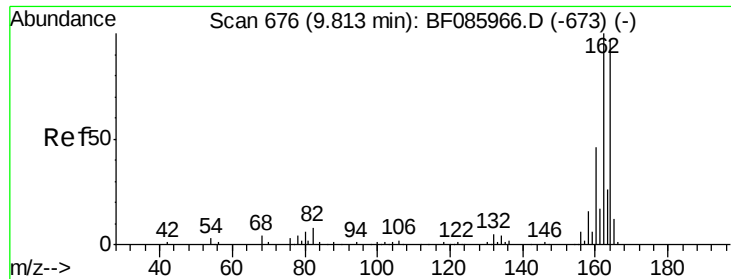


Abundance Ion 128.00 (127.70 to 128.70): BF086079.D (-499) (-)

Ion 129.00 (128.70 to 129.70): BF086079.D (-499) (-)

Ion 127.00 (126.70 to 127.70): BF086079.D (-499) (-)





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

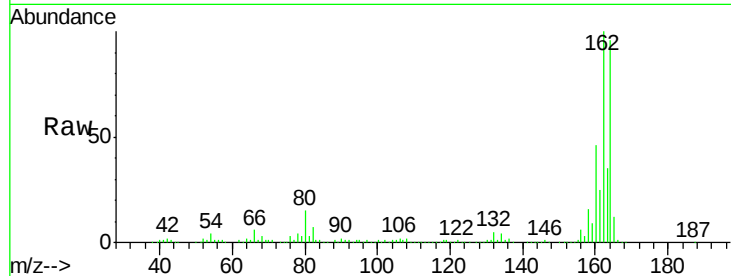
Tot Ion:164 Resp: 193597

Ion Ratio Lower Upper

164 100

162 103.9 82.1 123.1

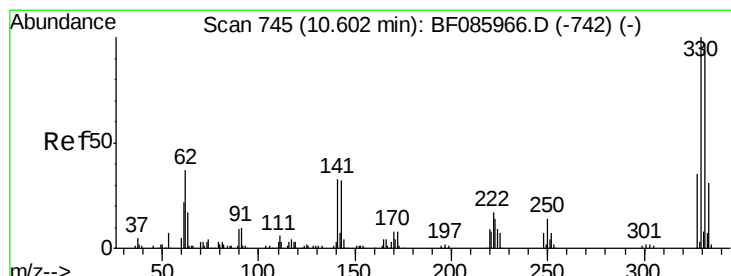
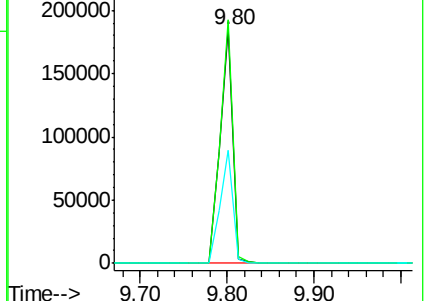
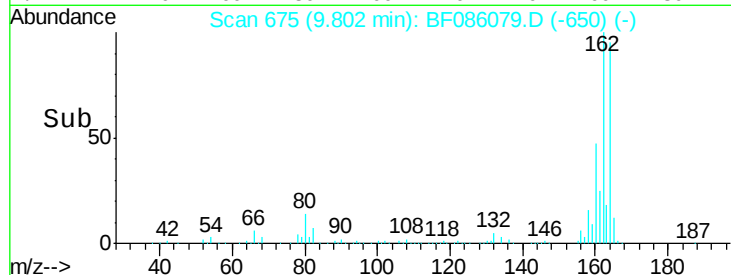
160 48.2 37.4 56.2



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: 20.99 ng

RT: 10.59 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

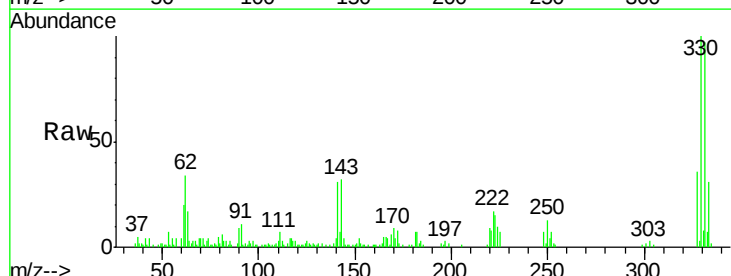
Tgt Ion:330 Resp: 38139

Ion Ratio Lower Upper

330 100

332 96.2 78.2 117.2

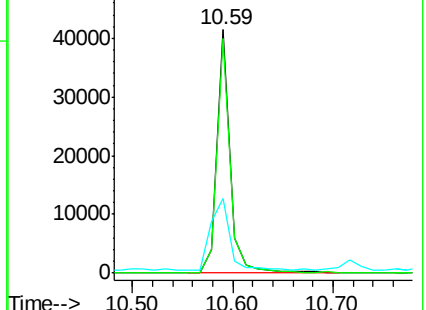
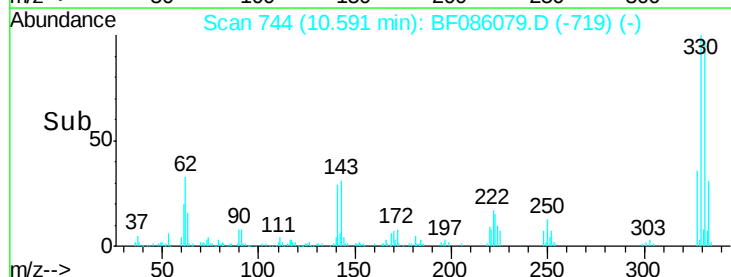
141 43.2 31.5 47.3

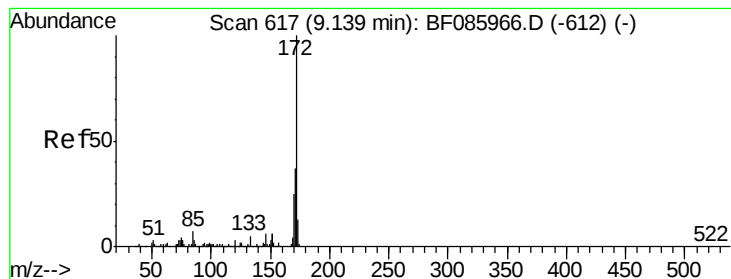


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

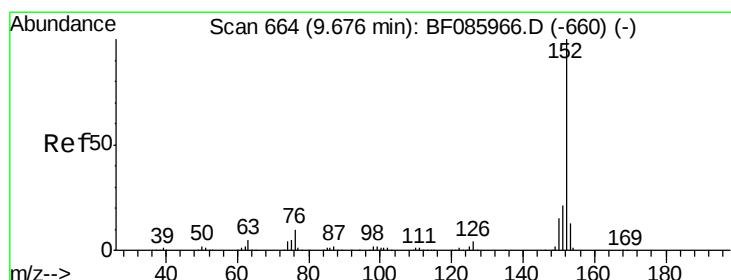
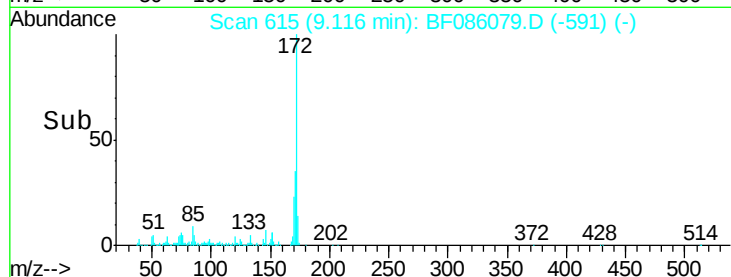
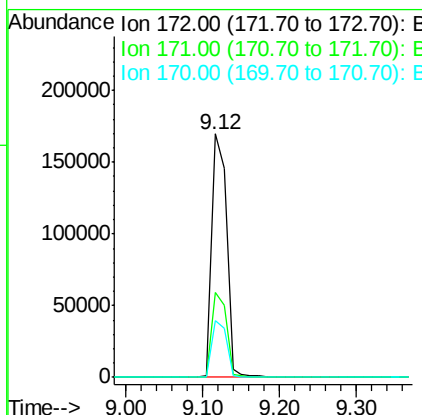
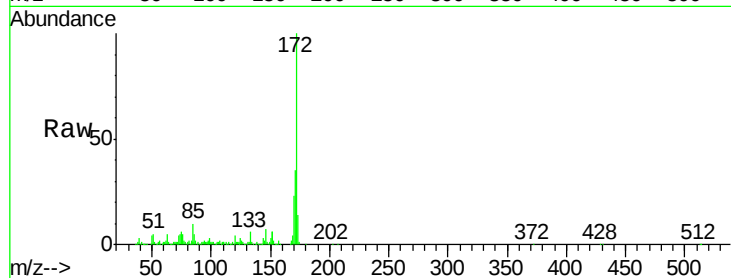




#44
2-Fluorobiphenyl
Concen: 19.39 ng
RT: 9.12 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

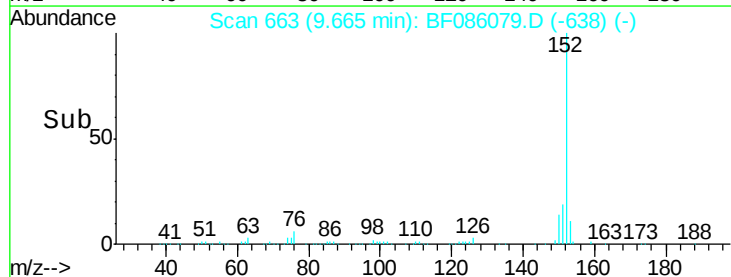
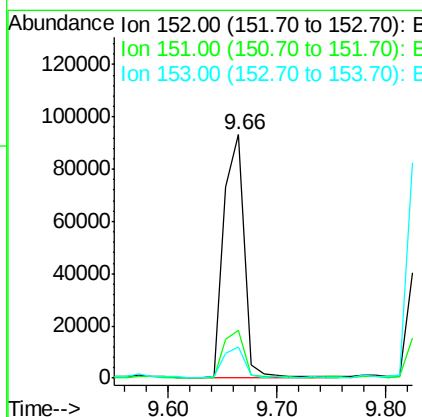
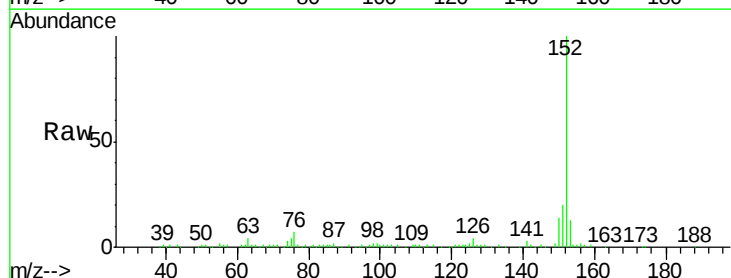
Instrument :
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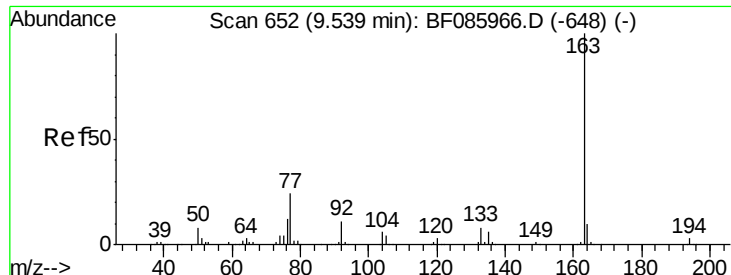
Tot Ion:172 Resp: 225747
Ion Ratio Lower Upper
172 100
171 35.0 29.4 44.2
170 23.5 19.8 29.6



#48
Acenaphthylene
Concen: 6.29 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion:152 Resp: 122011
Ion Ratio Lower Upper
152 100
151 19.8 16.8 25.2
153 12.6 10.9 16.3

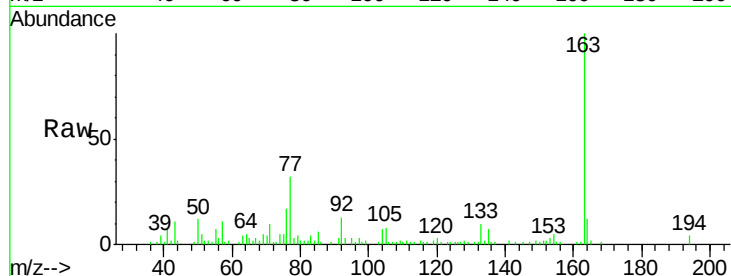




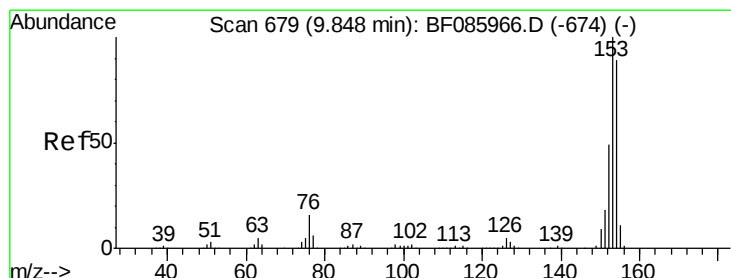
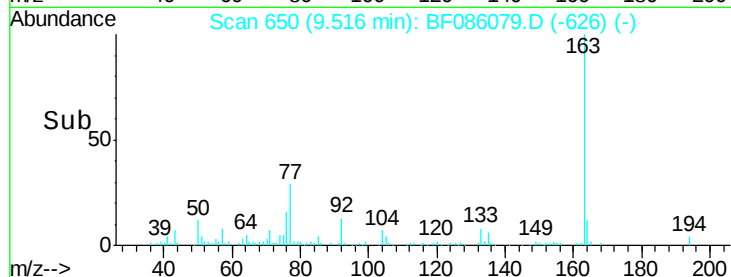
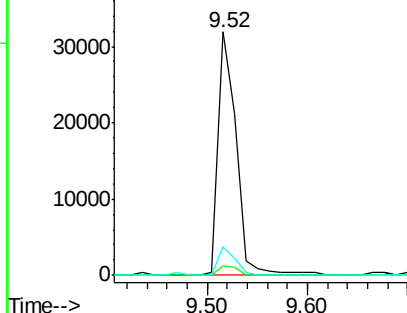
#49
Dimethylphthalate
Concen: 2.79 ng
RT: 9.52 min Scan# 650
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion:163 Resp: 40050
Ion Ratio Lower Upper
163 100
194 3.8 2.9 4.3
164 11.9 8.3 12.5

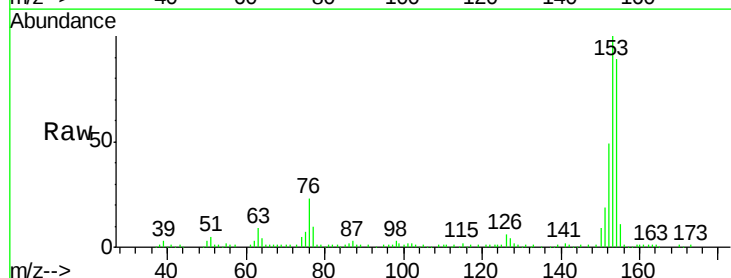


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

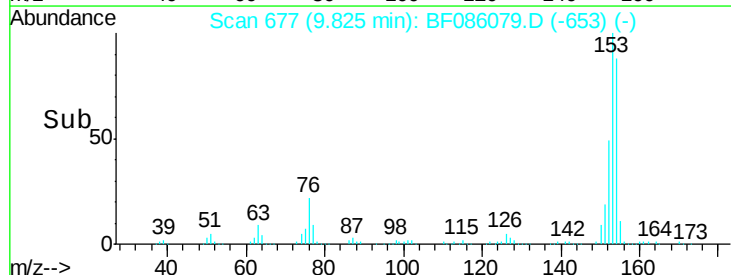
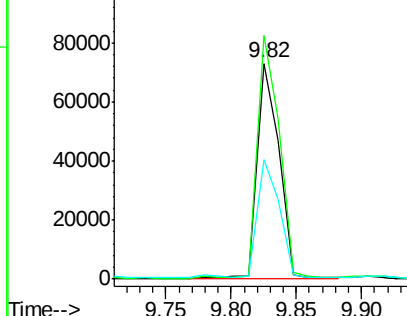


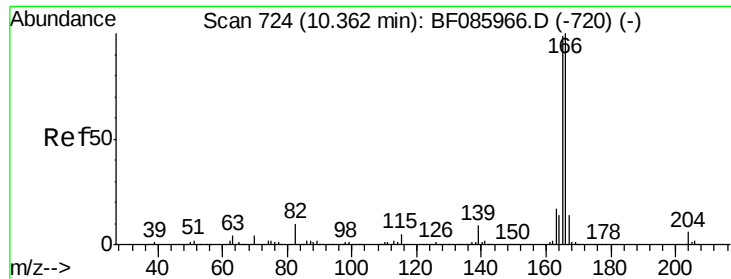
#51
Acenaphthene
Concen: 7.51 ng
RT: 9.82 min Scan# 677
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion:154 Resp: 86546
Ion Ratio Lower Upper
154 100
153 112.9 90.1 135.1
152 55.3 44.2 66.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

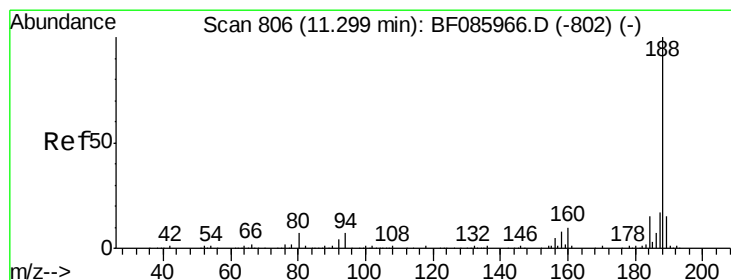
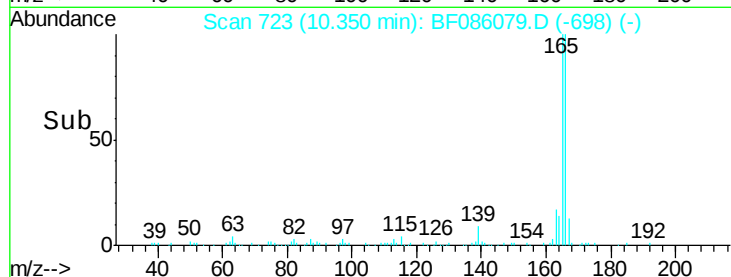
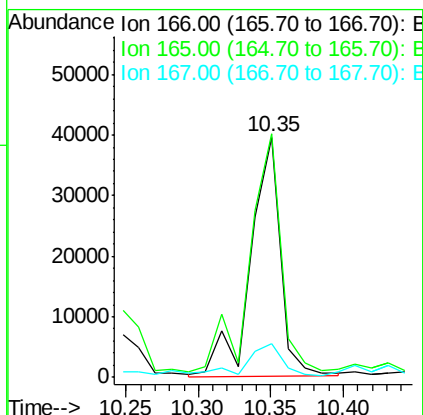
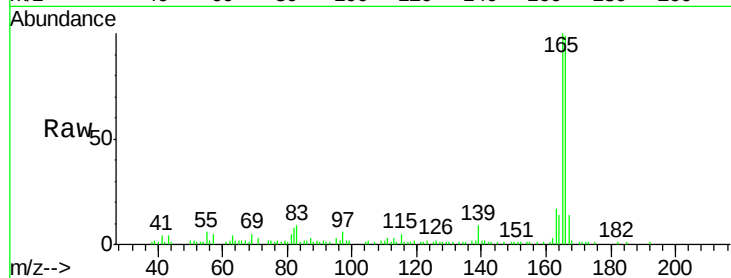




#57
Fluorene
 Concen: 4.33 ng
 RT: 10.35 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: BF086079.D
 Acq: 5 Apr 2016 12:02

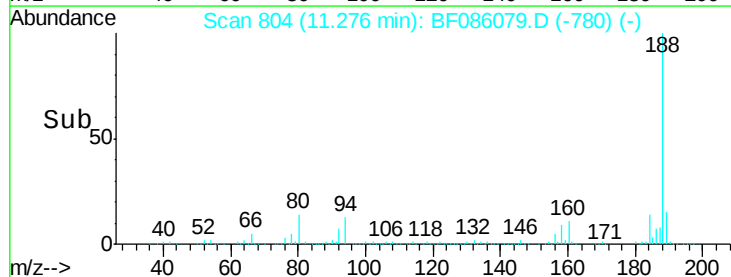
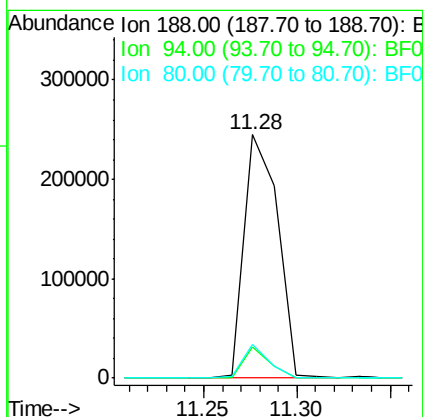
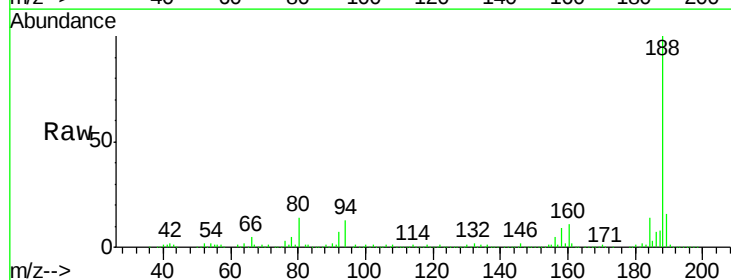
Instrument :
 BNA_F
 ClientSampleId :
 CS-PH3-SOIL-32816DL

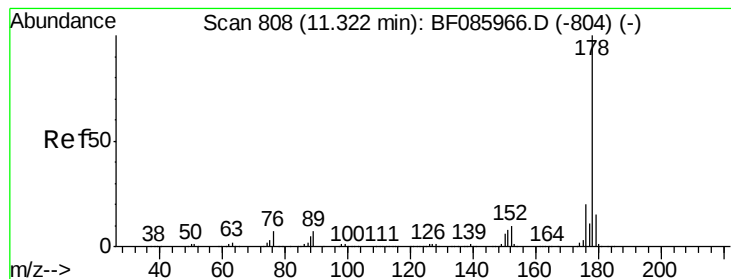
Tot Ion:166 Resp: 56325
 Ion Ratio Lower Upper
 166 100
 165 101.5 79.4 119.0
 167 13.9 11.0 16.4



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.28 min Scan# 804
 Delta R.T. -0.02 min
 Lab File: BF086079.D
 Acq: 5 Apr 2016 12:02

Tgt Ion:188 Resp: 306278
 Ion Ratio Lower Upper
 188 100
 94 12.9 5.4 8.0#
 80 14.0 5.5 8.3#





#70

Phenanthrene

Concen: 28.74 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

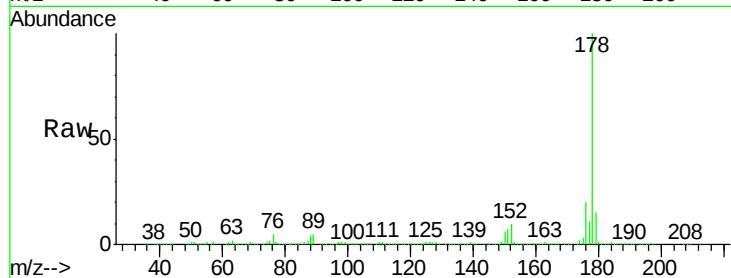
Tot Ion:178 Resp: 480148

Ion Ratio Lower Upper

178 100

176 20.0 16.3 24.5

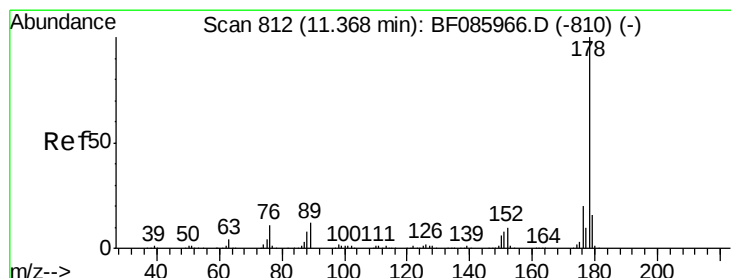
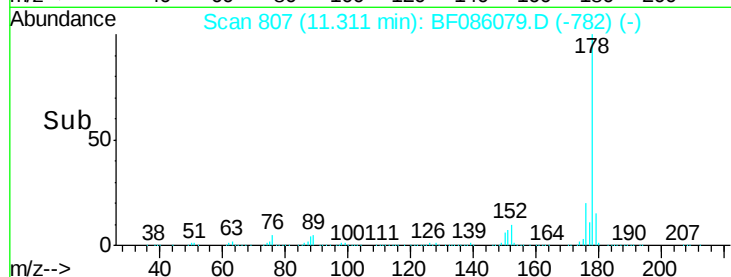
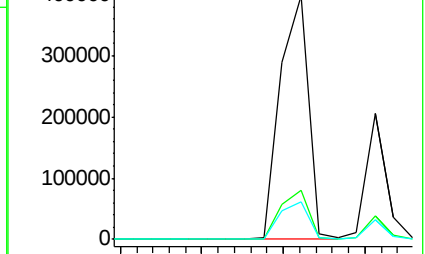
179 15.2 12.6 18.8



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



#71

Anthracene

Concen: 10.04 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

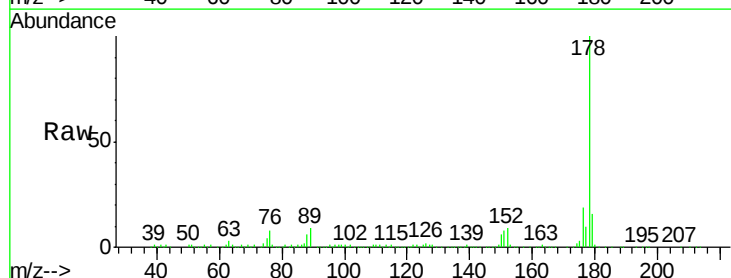
Tgt Ion:178 Resp: 175702

Ion Ratio Lower Upper

178 100

176 19.0 15.9 23.9

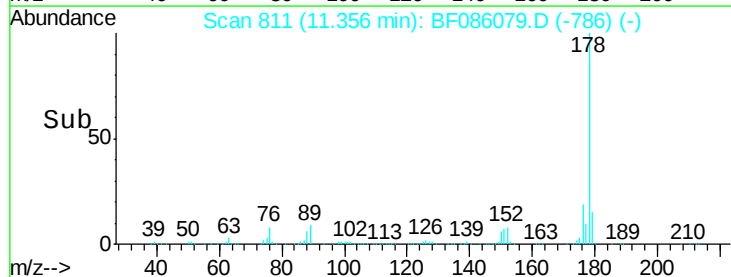
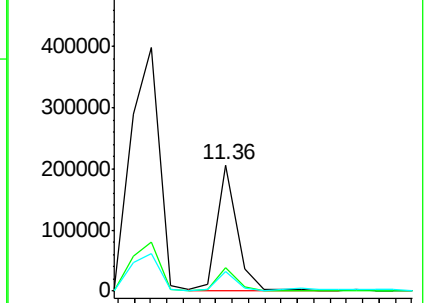
179 15.7 13.0 19.4

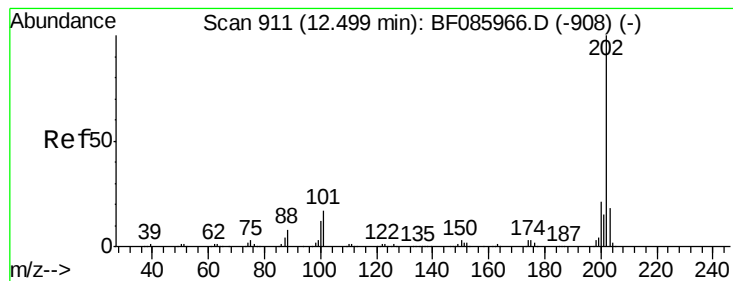


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 40.41 ng

RT: 12.50 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

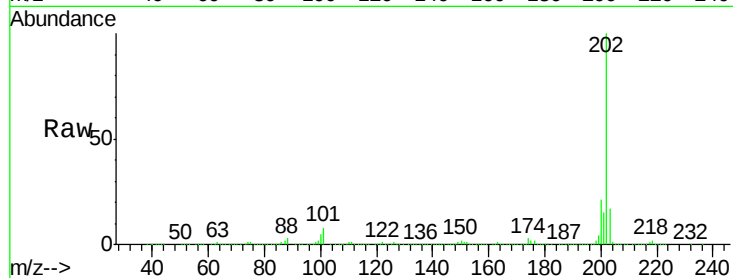
Tot Ion:202 Resp: 702301

Ion Ratio Lower Upper

202 100

101 7.9 0.0 36.6

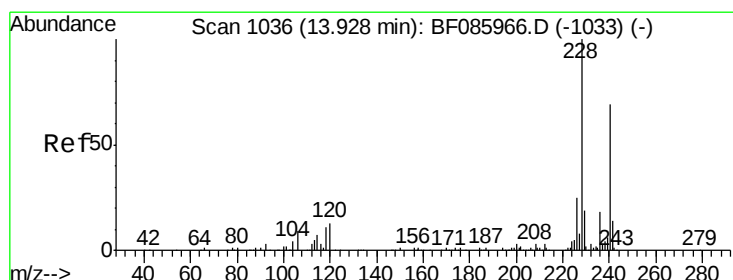
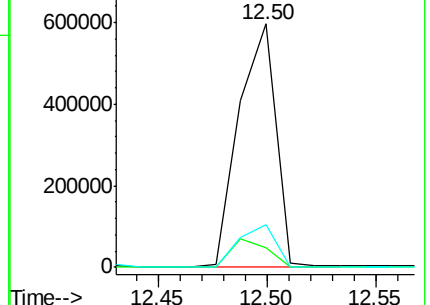
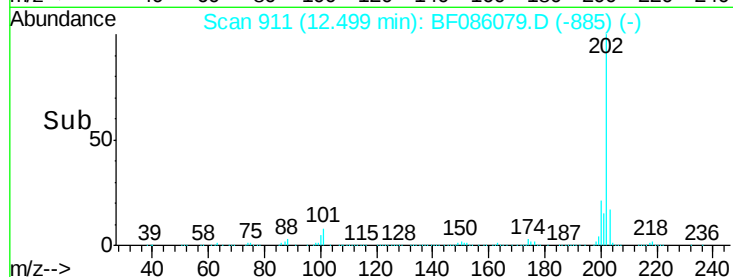
203 17.5 0.0 38.1



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: 13.92 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

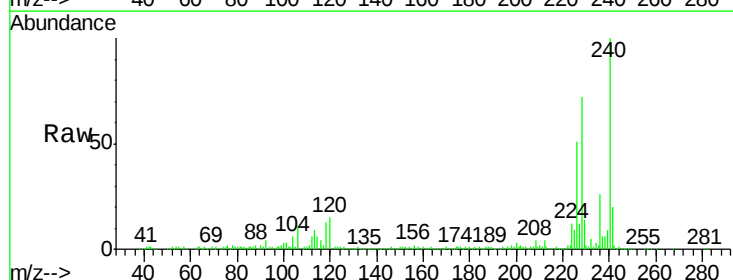
Tgt Ion:240 Resp: 237718

Ion Ratio Lower Upper

240 100

120 15.0 13.8 20.8

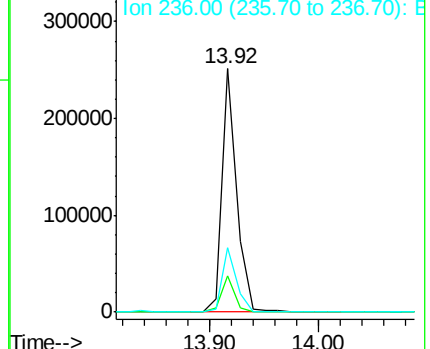
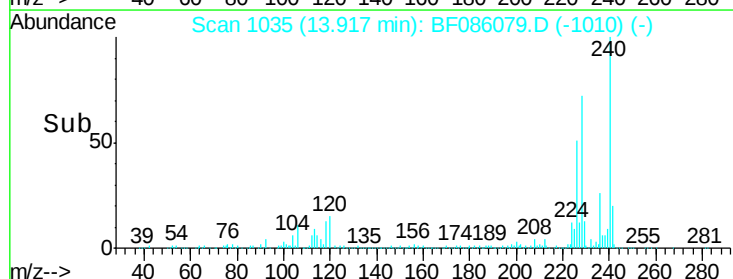
236 26.5 20.6 30.8

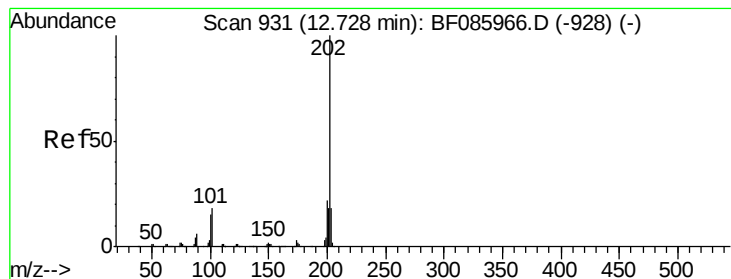


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 61.97 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

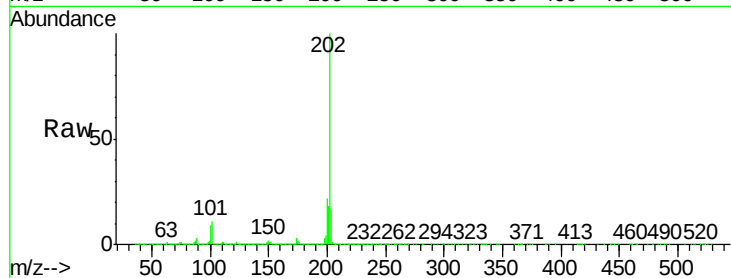
Tot Ion:202 Resp: 1038083

Ion Ratio Lower Upper

202 100

200 22.0 17.6 26.4

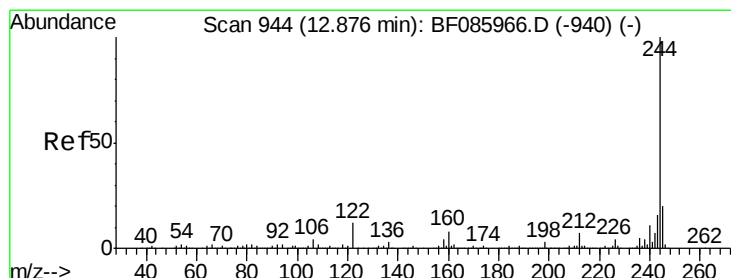
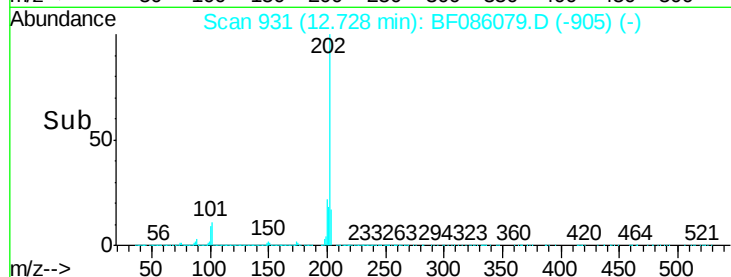
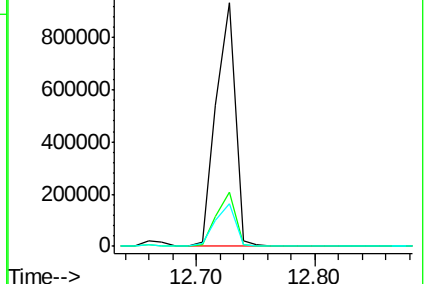
203 17.4 14.0 21.0



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: 13.59 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

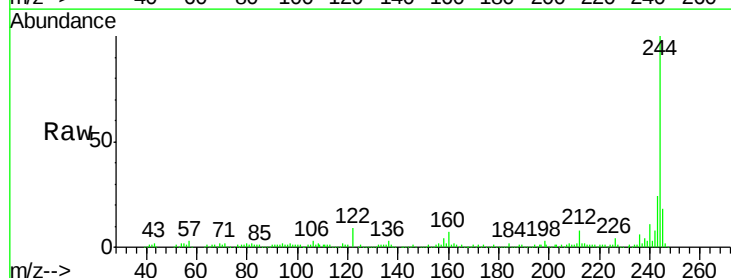
Tgt Ion:244 Resp: 137433

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

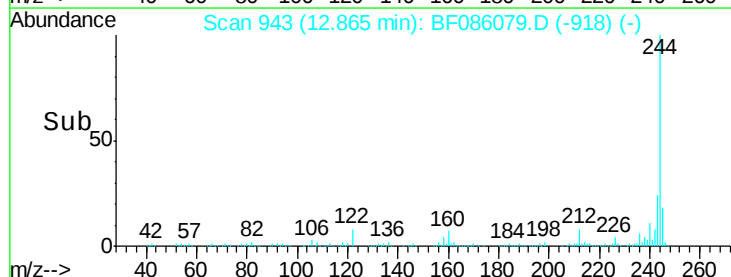
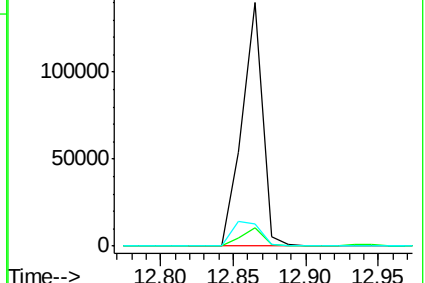
122 8.9 10.2 15.4#

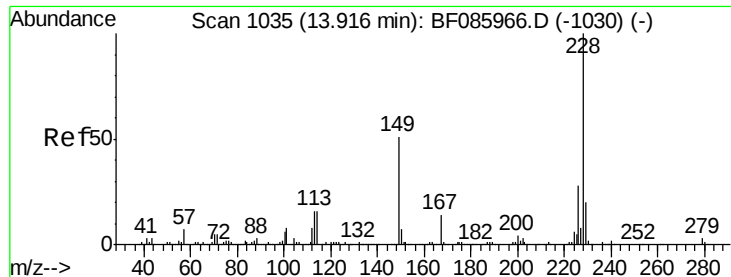


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 29.10 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

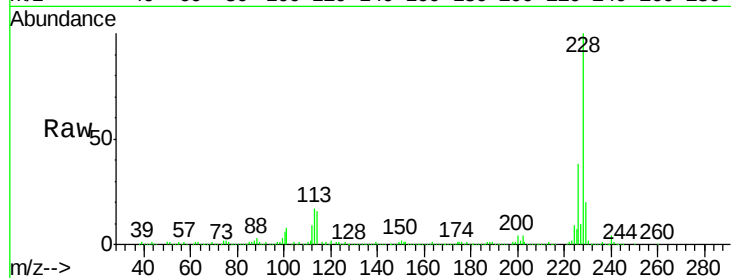
Tot Ion:228 Resp: 407812

Ion Ratio Lower Upper

228 100

226 37.8 22.1 33.1#

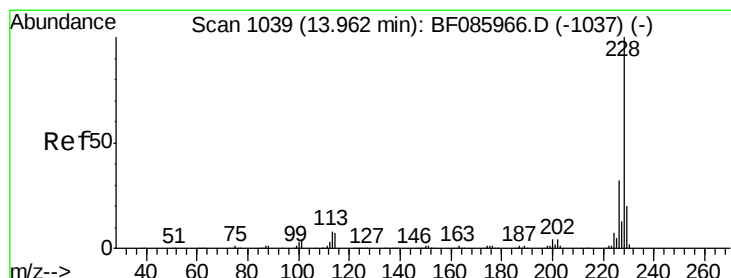
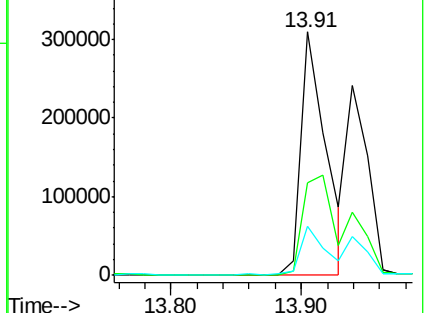
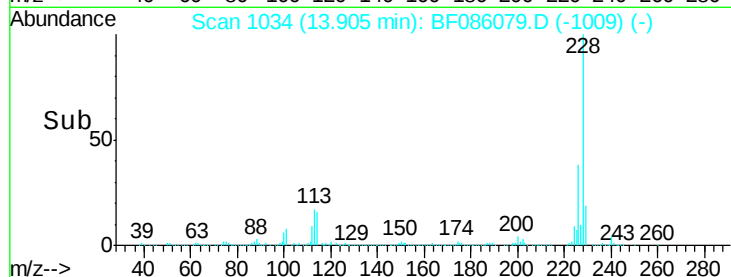
229 20.0 16.2 24.4



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: 30.21 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.06 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

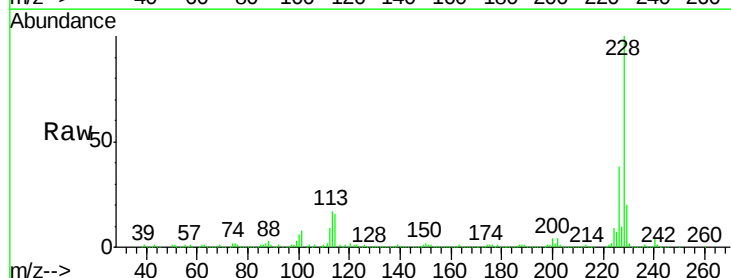
Tgt Ion:228 Resp: 407812

Ion Ratio Lower Upper

228 100

226 37.8 25.0 37.6#

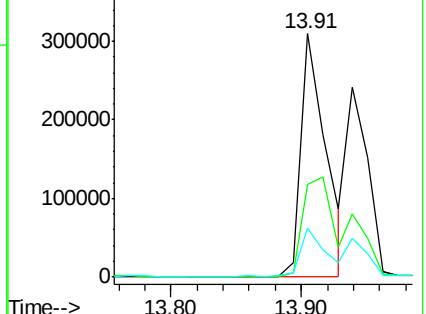
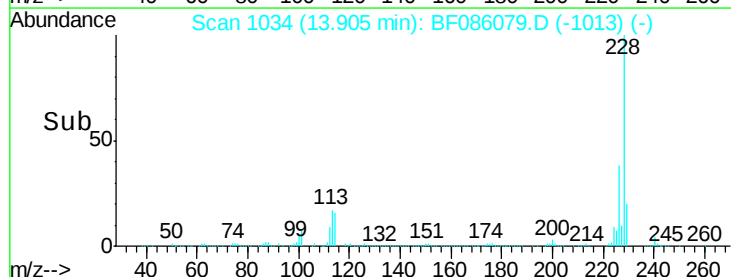
229 20.0 15.7 23.5

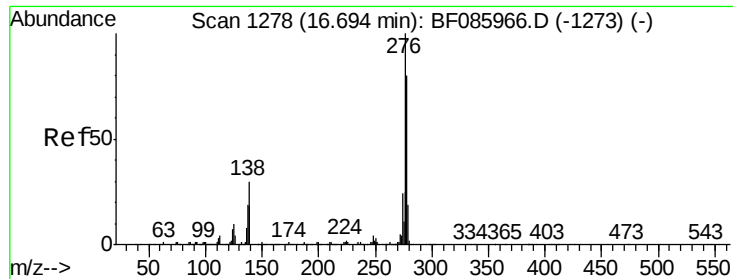


Abundance Ion 228.00 (227.70 to 228.70): E

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: 14.28 ng

RT: 16.67 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

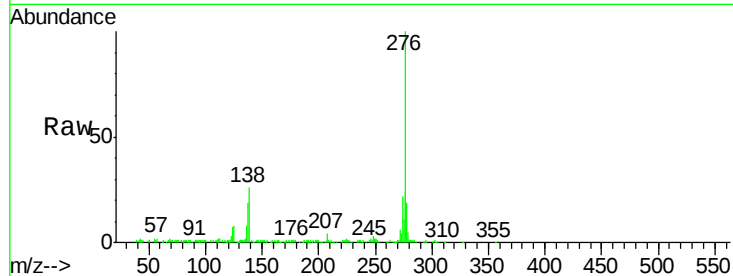
Tot Ion:276 Resp: 156393

Ion Ratio Lower Upper

276 100

138 24.8 24.2 36.4

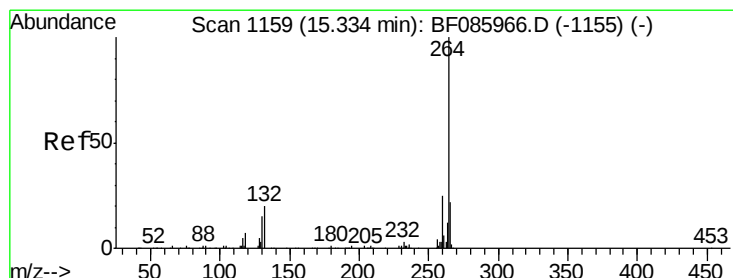
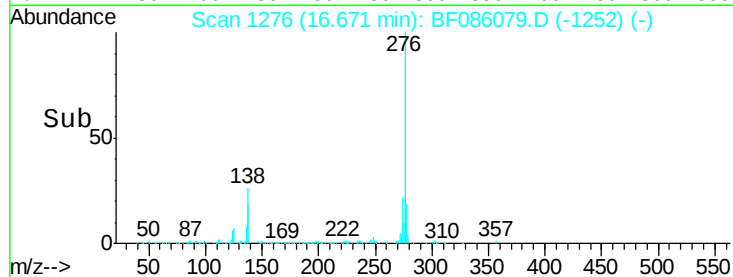
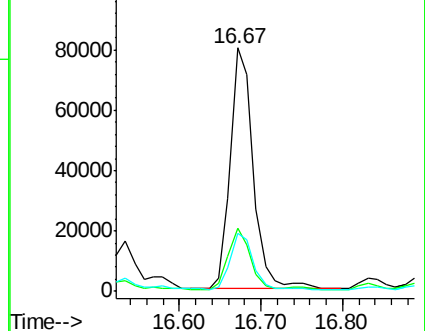
277 23.9 20.0 30.0



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: 15.32 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

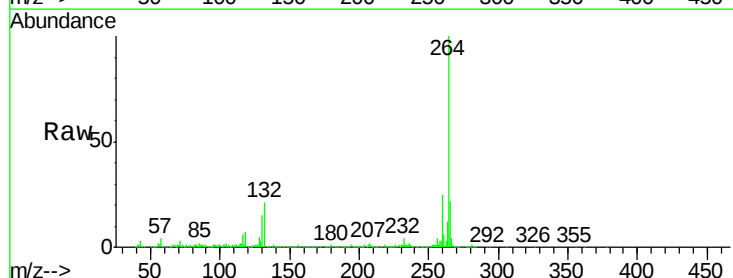
Tgt Ion:264 Resp: 213330

Ion Ratio Lower Upper

264 100

260 24.7 19.4 29.2

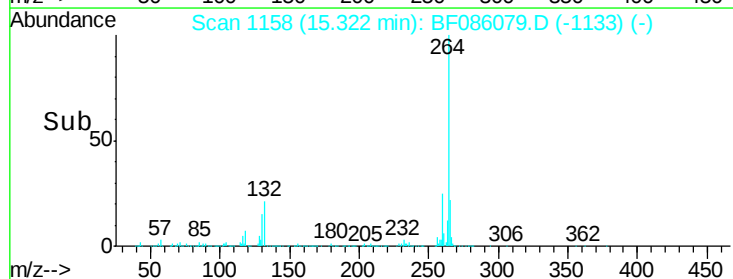
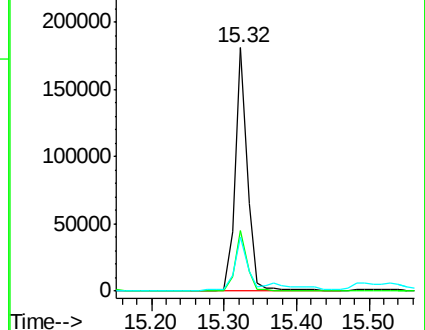
265 22.2 17.2 25.8

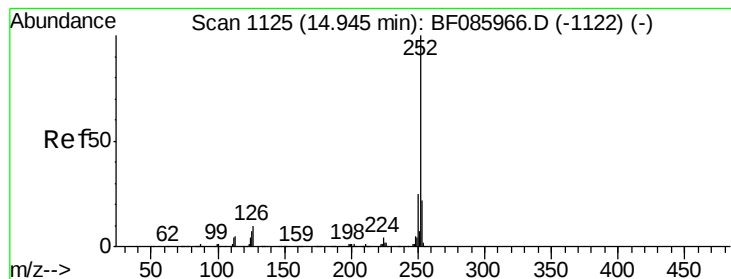


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 35.55 ng

RT: 14.93 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

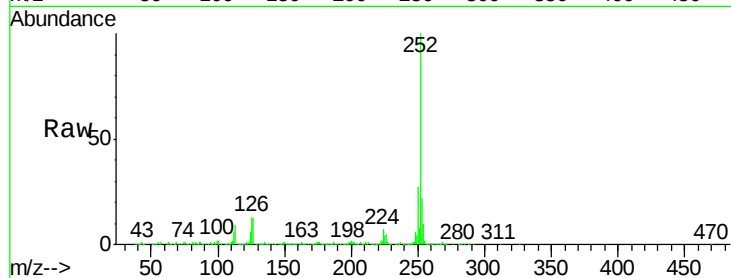
Tot Ion:252 Resp: 477013

Ion Ratio Lower Upper

252 100

253 22.0 17.6 26.4

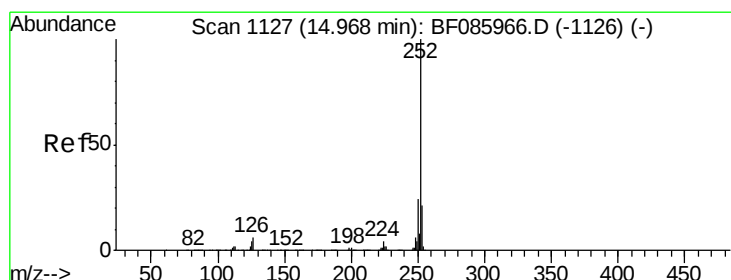
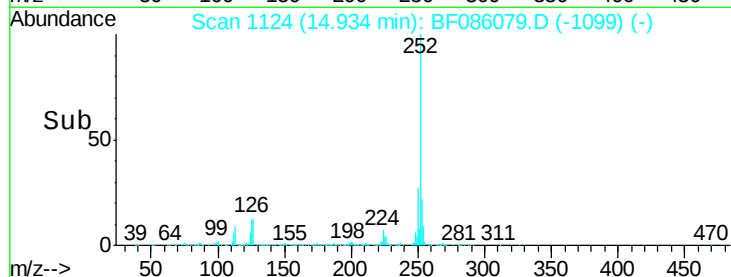
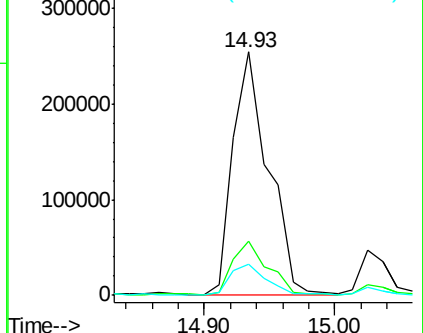
125 12.5 10.3 15.5



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: 40.14 ng

RT: 14.93 min Scan# 1124

Delta R.T. -0.03 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

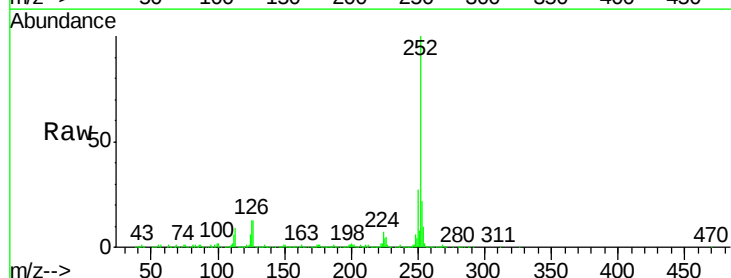
Tgt Ion:252 Resp: 477013

Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.6

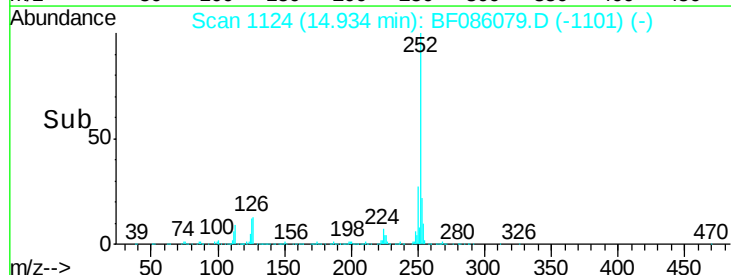
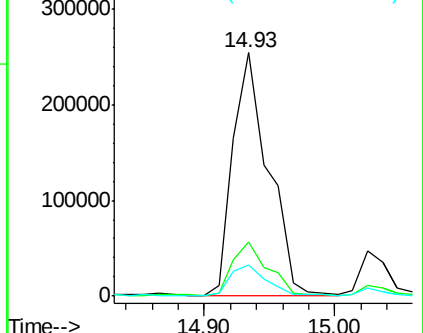
125 12.5 7.7 11.5#

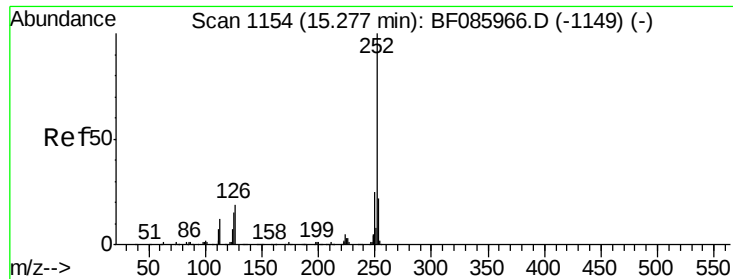


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 23.25 ng

RT: 15.27 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

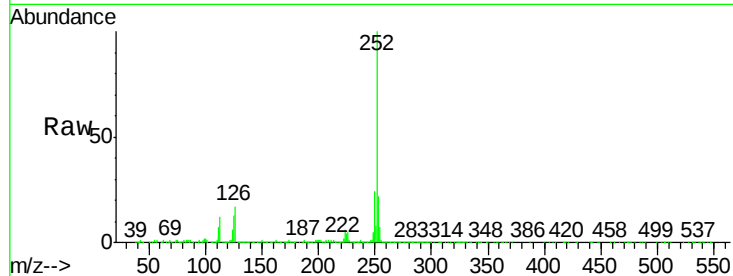
Tot Ion:252 Resp: 276505

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

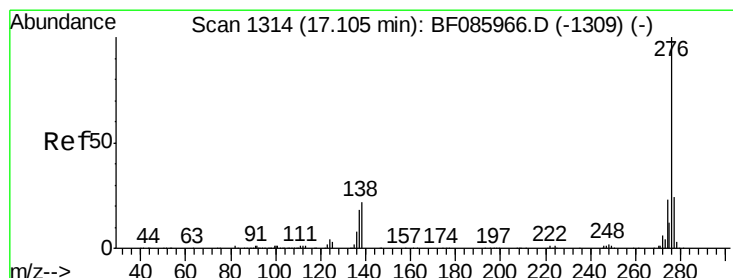
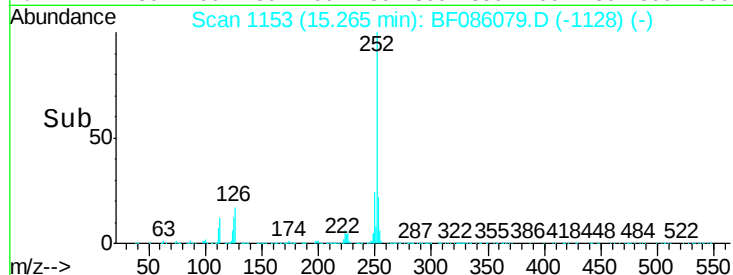
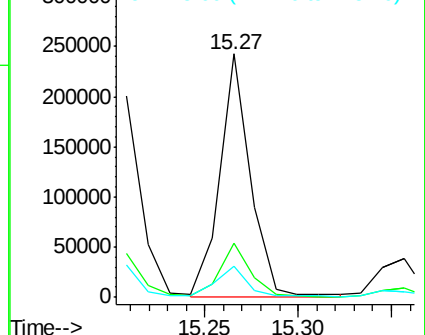
125 12.7 10.3 15.5



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



#91

Benzo(g,h,i)perylene

Concen: 17.47 ng

RT: 17.08 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

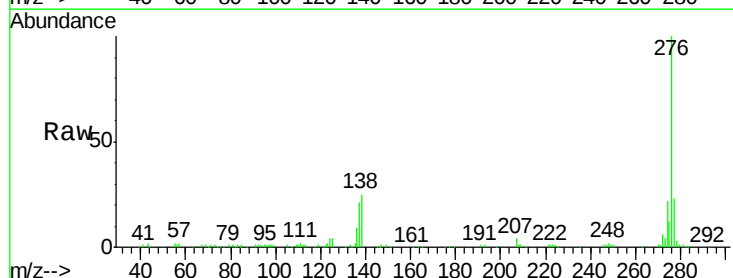
Tgt Ion:276 Resp: 161741

Ion Ratio Lower Upper

276 100

277 22.6 18.8 28.2

138 25.4 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

