

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080115\
 Data File : BF080789.D
 Acq On : 1 Aug 2015 19:32
 Operator : TP/UM
 Sample : G3130-01RE
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

Quant Time: Aug 03 03:49:20 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF073015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 31 01:45:22 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	116698	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	404743	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	162014	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	291217	20.00	ng	0.00
75) Chrysene-d12	14.00	240	250397	20.00	ng	0.00
86) Perylene-d12	15.41	264	338767	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	514493	75.63	ng	0.00
7) Phenol-d6	6.48	99	745505	80.50	ng	-0.01
23) Nitrobenzene-d5	7.41	82	594631	71.14	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	115899	68.94	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	809371	74.53	ng	-0.01
78) Terphenyl-d14	12.95	244	557750	42.13	ng	-0.01

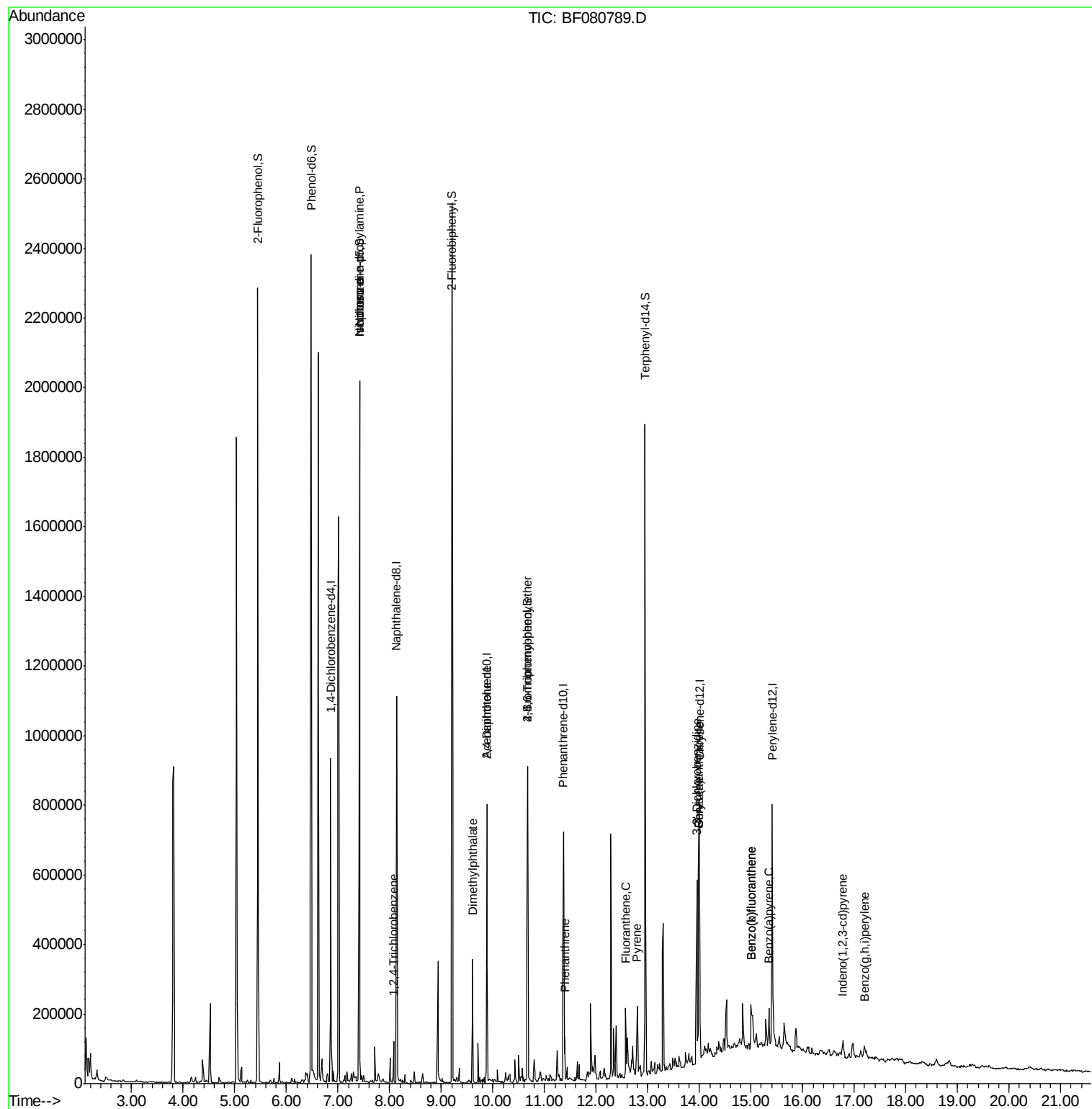
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.41	70	83162	13.33	ng	# 75
25) Isophorone	7.41	82	590994	39.76	ng	# 71
30) 1,2,4-Trichlorobenzene	8.08	180	17750	2.87	ng	96
49) Dimethylphthalate	9.61	163	162644	14.25	ng	97
56) 2,4-Dinitrotoluene	9.88	165	21526	6.77	ng	# 17
66) 4-Bromophenyl-phenylether	10.67	248	7036	2.34	ng	# 1
70) Phenanthrene	11.39	178	54219	3.70	ng	96
74) Fluoranthene	12.57	202	83269	5.87	ng	98
77) Pyrene	12.80	202	78481	4.04	ng	98
80) Benzo(a)anthracene	13.99	228	46055	3.06	ng	94
81) 3,3'-Dichlorobenzidine	13.95	252	112105	21.81	ng	# 94
82) Chrysene	13.99	228	46055	3.15	ng	96
85) Indeno(1,2,3-cd)pyrene	16.77	276	34909	5.12	ng	# 77
87) Benzo(b)fluoranthene	15.00	252	92572	4.57	ng	# 96
88) Benzo(k)fluoranthene	15.00	252	92572	5.56	ng	98
89) Benzo(a)pyrene	15.35	252	49472	2.98	ng	# 94
91) Benzo(a,h,i)perylene	17.20	276	31124	2.13	ng	# 94

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.00 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampleId :

SOIL-3

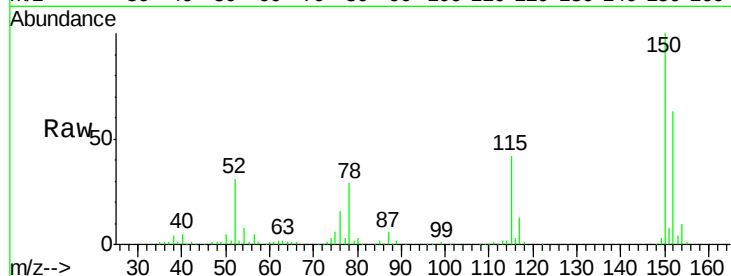
Tot Ion:152 Resp: 116698

Ion Ratio Lower Upper

152 100

150 158.8 129.6 194.4

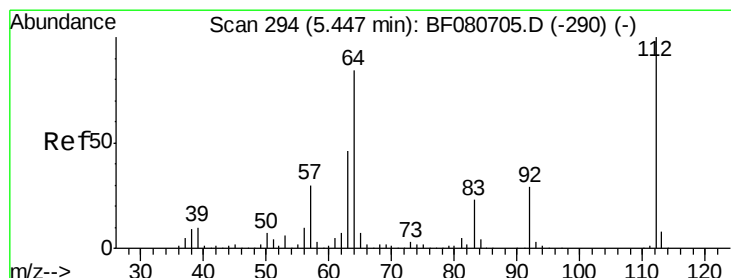
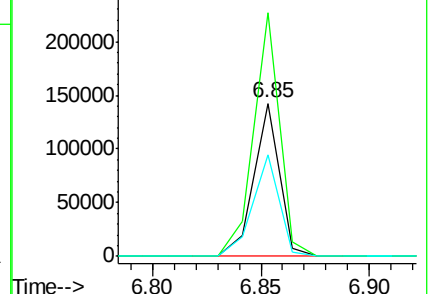
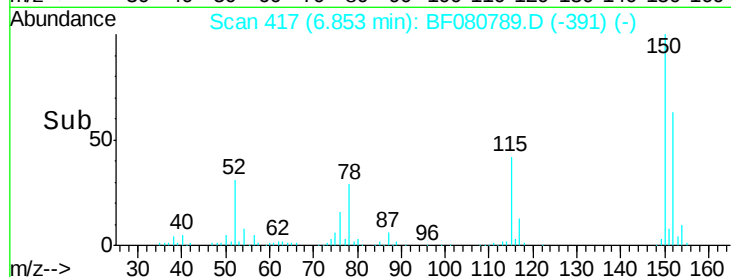
115 66.3 56.6 85.0



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: 75.63 ng

RT: 5.45 min Scan# 294

Delta R.T. -0.00 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

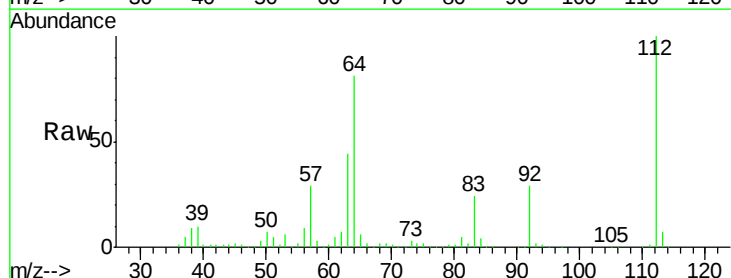
Tgt Ion:112 Resp: 514493

Ion Ratio Lower Upper

112 100

64 81.1 66.8 100.2

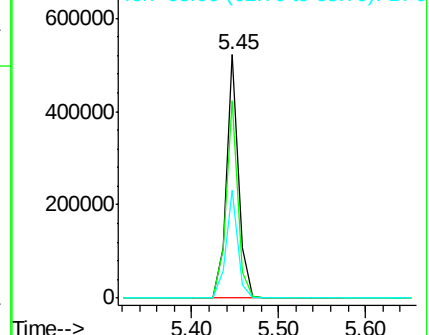
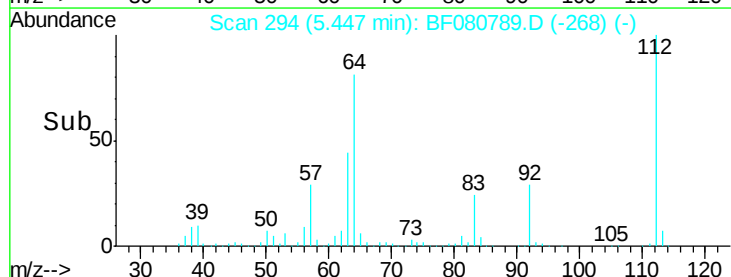
63 44.3 36.7 55.1

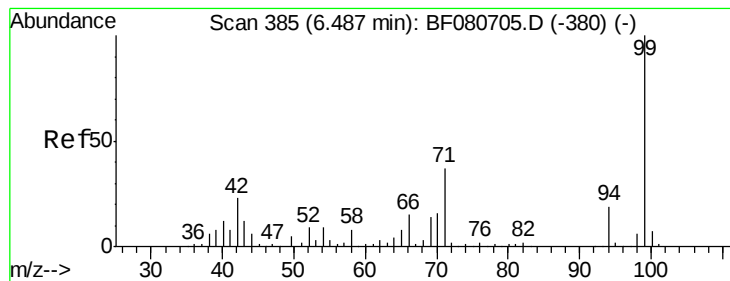


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 80.50 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampleId :

SOIL-3

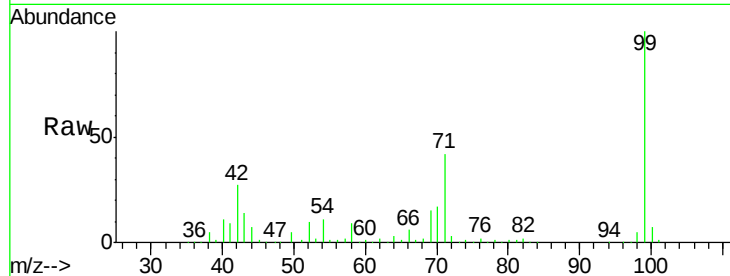
Tot Ion: 99 Resp: 745505

Ion Ratio Lower Upper

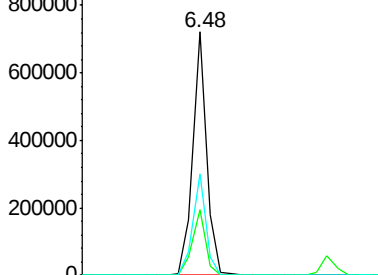
99 100

42 27.1 18.2 27.2

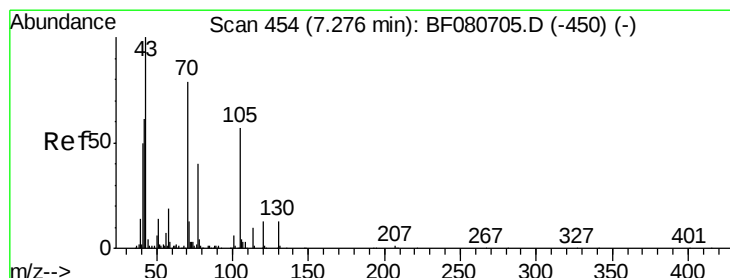
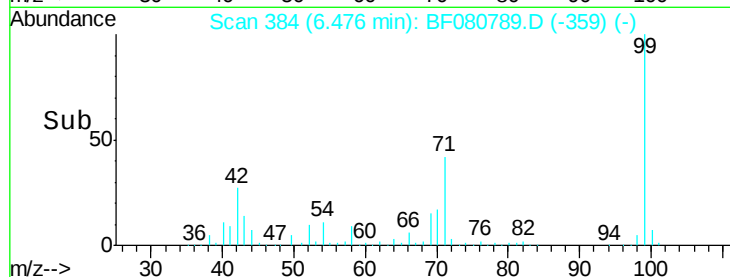
71 41.5 29.5 44.3



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



Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 13.33 ng

RT: 7.41 min Scan# 466

Delta R.T. 0.14 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Tgt Ion: 70 Resp: 83162

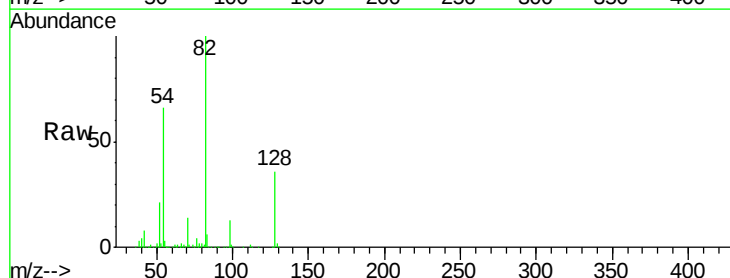
Ion Ratio Lower Upper

70 100

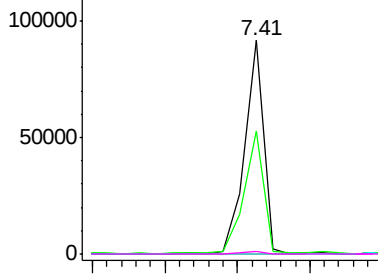
42 57.3 61.8 92.6#

101 0.0 6.1 9.1#

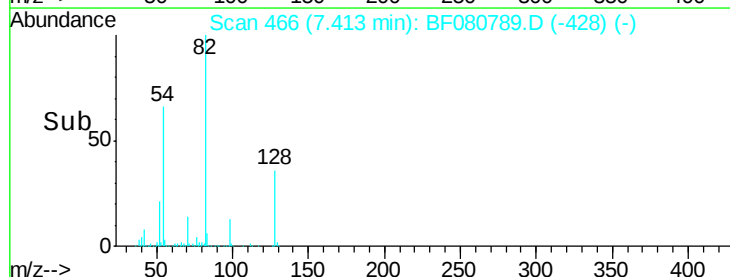
130 1.3 12.9 19.3#

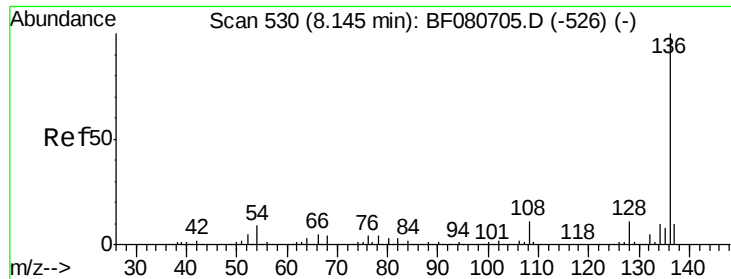


Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E



Time-->

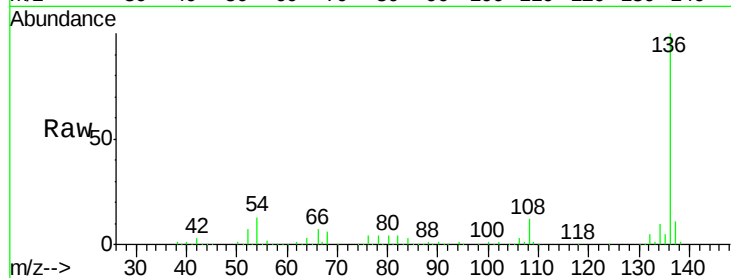




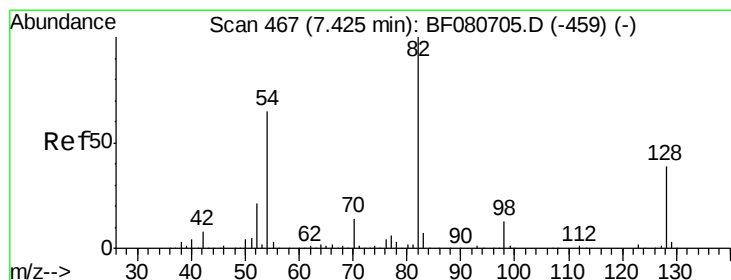
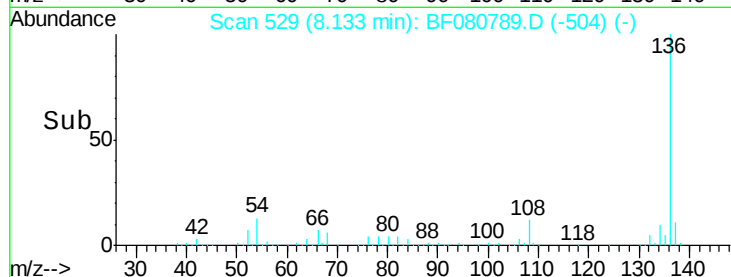
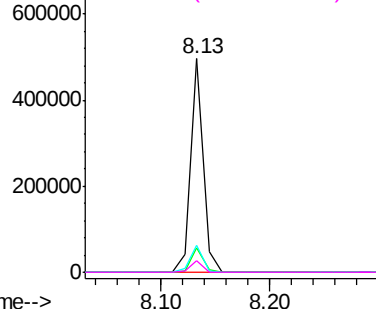
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 529
Delta R.T. -0.01 min
Lab File: BF080789.D
Acq: 1 Aug 2015 19:32

Instrument :
BNA_F
ClientSampled :
SOIL-3

Tot Ion:136	Resp:	404743
Ion Ratio	Lower	Upper
136	100	
137	11.2	8.4 12.6
54	12.8	6.9 10.3#
68	5.7	3.5 5.3#

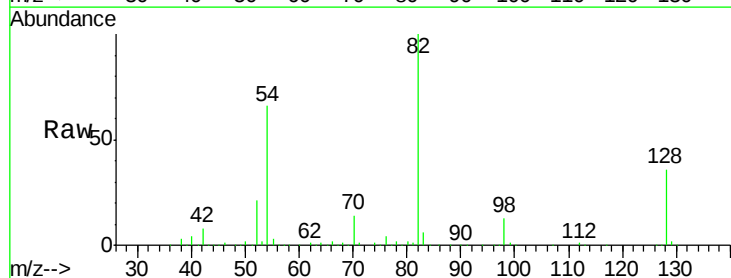


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

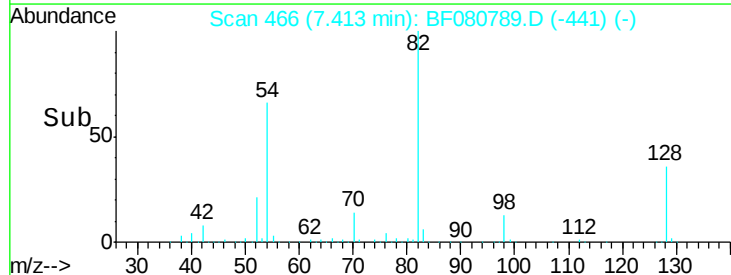
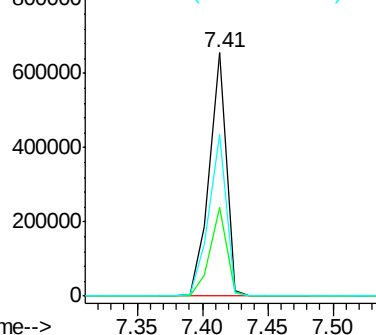


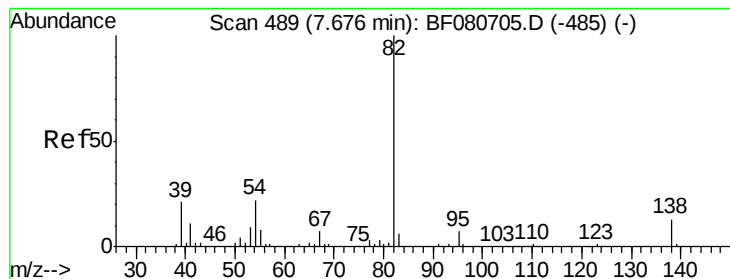
#23
Nitrobenzene-d5
Concen: 71.14 ng
RT: 7.41 min Scan# 466
Delta R.T. -0.01 min
Lab File: BF080789.D
Acq: 1 Aug 2015 19:32

Tgt Ion: 82	Resp:	594631
Ion Ratio	Lower	Upper
82	100	
128	36.3	31.5 47.3
54	66.3	51.8 77.8



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: 39.76 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.26 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampled :

SOIL-3

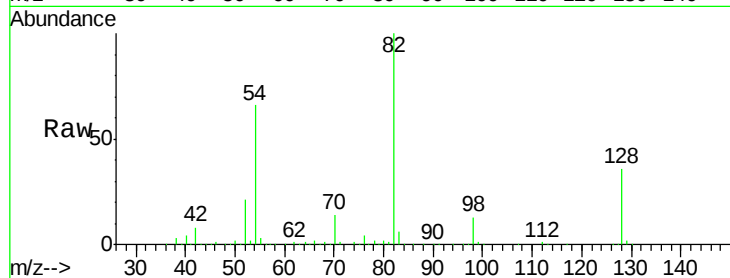
Tot Ion: 82 Resp: 590994

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 10.7 16.1#

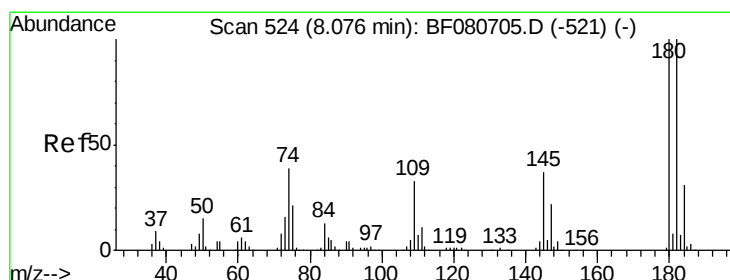
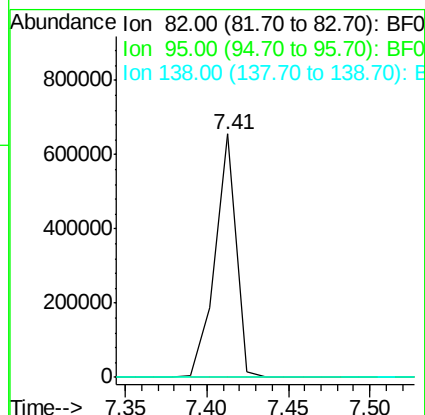
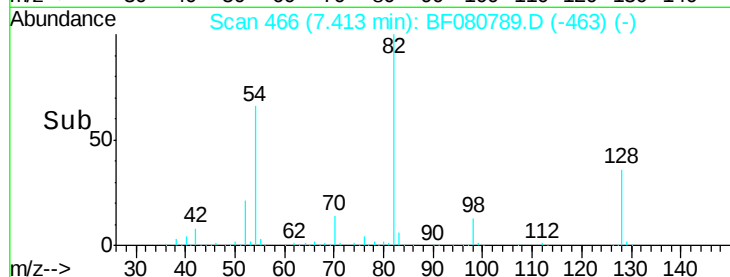


Abundance Ion 82.00 (81.70 to 82.70): BF080789.D (-463) (-)

Ion 95.00 (94.70 to 95.70): BF080789.D (-463) (-)

Ion 138.00 (137.70 to 138.70): BF080789.D (-463) (-)

Time-->



#30

1,2,4-Trichlorobenzene

Concen: 2.87 ng

RT: 8.08 min Scan# 524

Delta R.T. -0.00 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

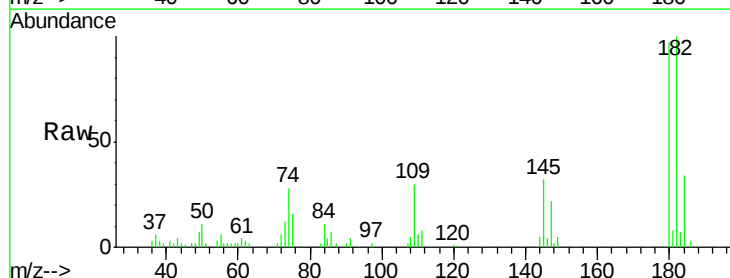
Tgt Ion: 180 Resp: 17750

Ion Ratio Lower Upper

180 100

182 102.8 79.8 119.8

145 33.1 29.8 44.6

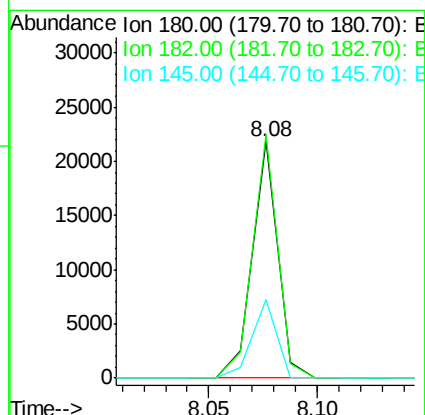
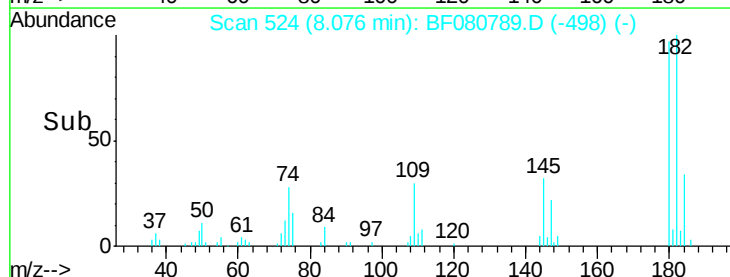


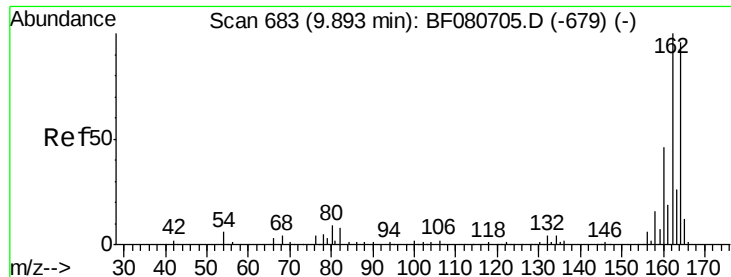
Abundance Ion 180.00 (179.70 to 180.70): BF080789.D (-498) (-)

Ion 182.00 (181.70 to 182.70): BF080789.D (-498) (-)

Ion 145.00 (144.70 to 145.70): BF080789.D (-498) (-)

Time-->





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampleId :

SOIL-3

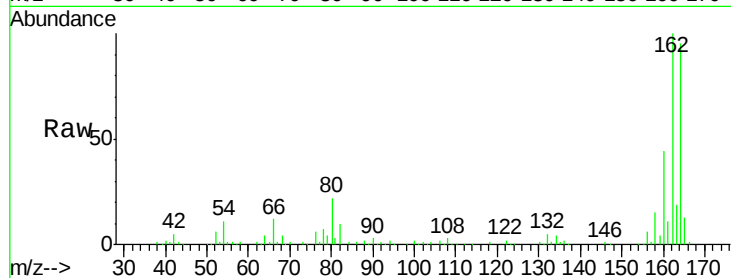
Tot Ion:164 Resp: 162014

Ion Ratio Lower Upper

164 100

162 105.5 83.4 125.0

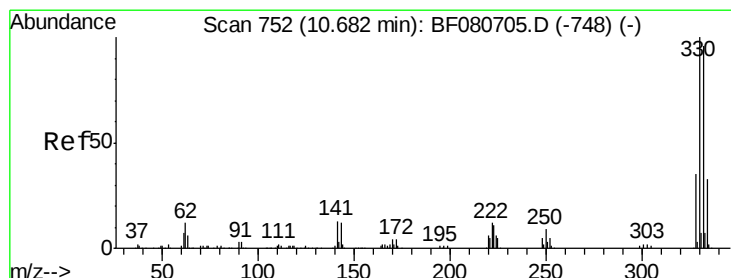
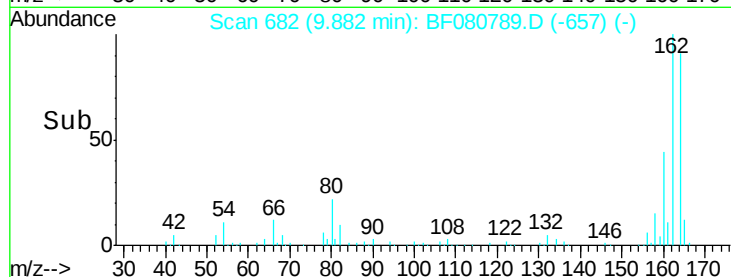
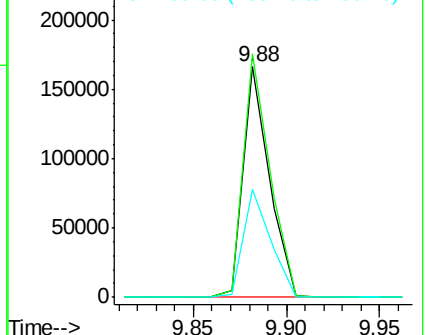
160 46.7 38.0 57.0



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: 68.94 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

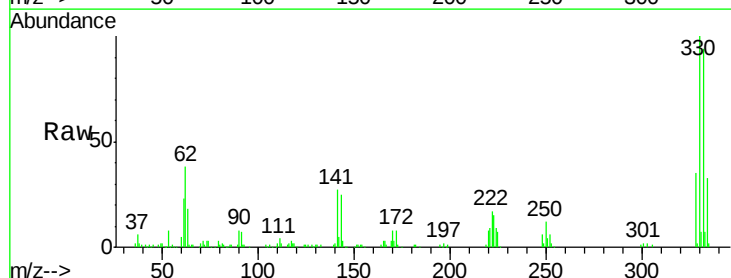
Tgt Ion:330 Resp: 115899

Ion Ratio Lower Upper

330 100

332 93.9 76.6 114.8

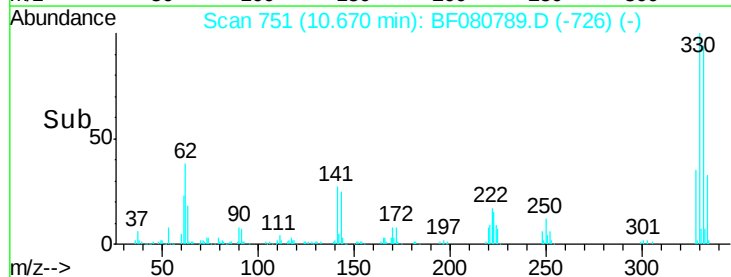
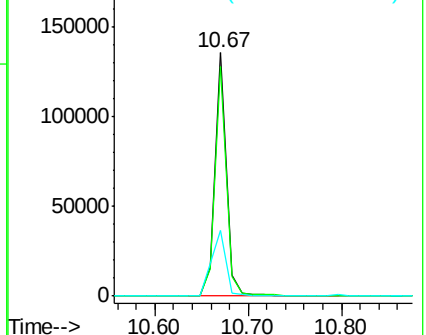
141 34.3 26.0 39.0

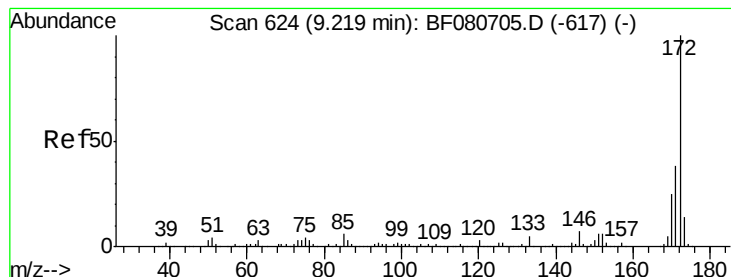


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

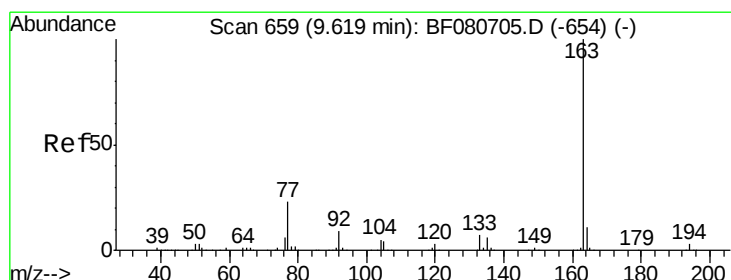
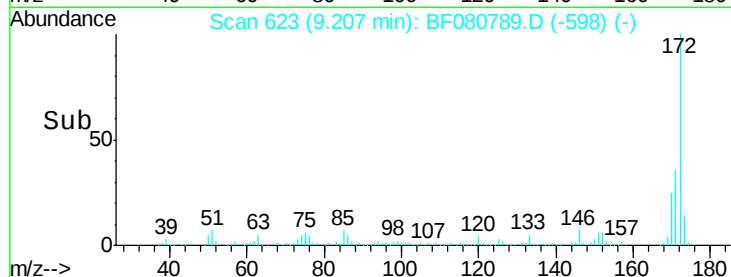
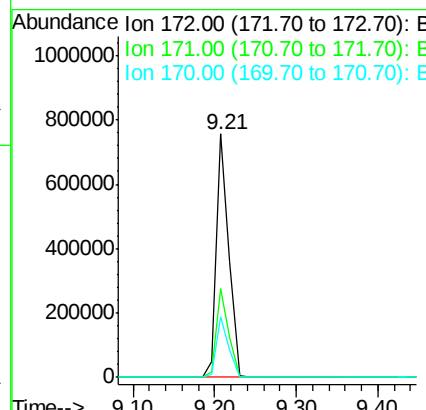
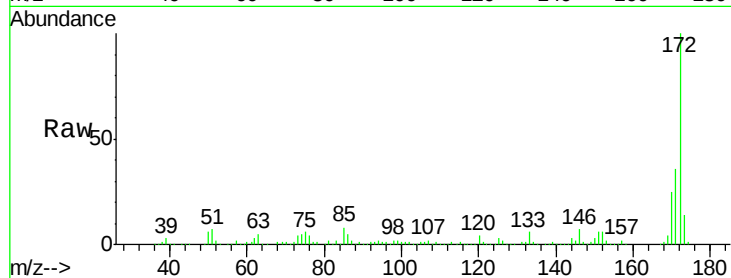




#44
 2-Fluorobiphenyl
 Concen: 74.53 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.01 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

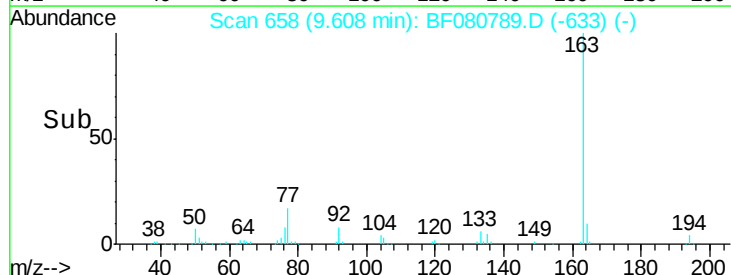
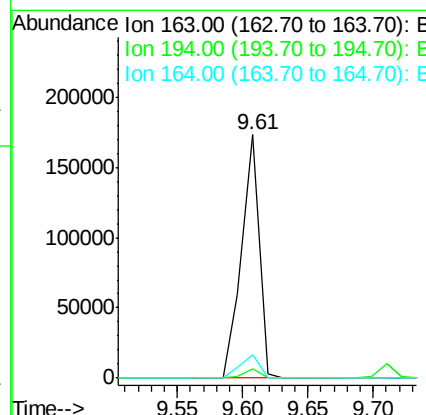
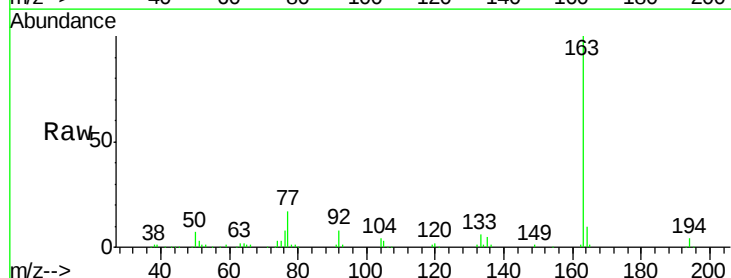
Instrument :
 BNA_F
 ClientSampled :
 SOIL-3

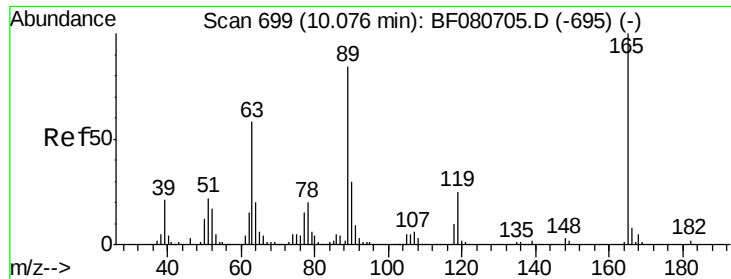
Tot Ion:172 Resp: 809371
 Ion Ratio Lower Upper
 172 100
 171 36.5 30.2 45.4
 170 24.9 20.2 30.2



#49
 Dimethylphthalate
 Concen: 14.25 ng
 RT: 9.61 min Scan# 658
 Delta R.T. -0.01 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

Tgt Ion:163 Resp: 162644
 Ion Ratio Lower Upper
 163 100
 194 3.8 2.7 4.1
 164 9.7 8.7 13.1

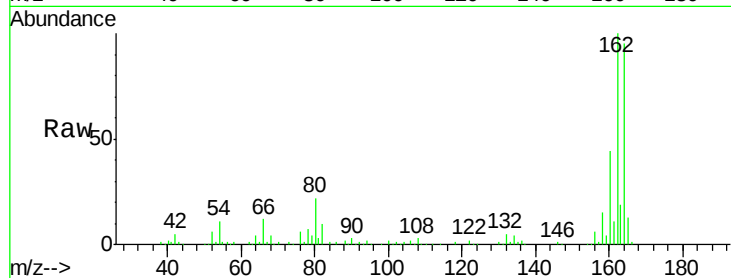




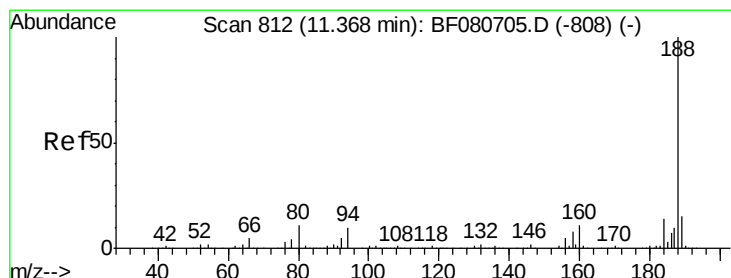
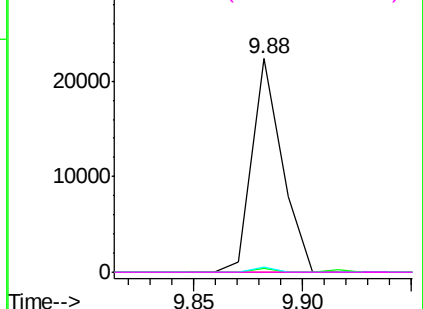
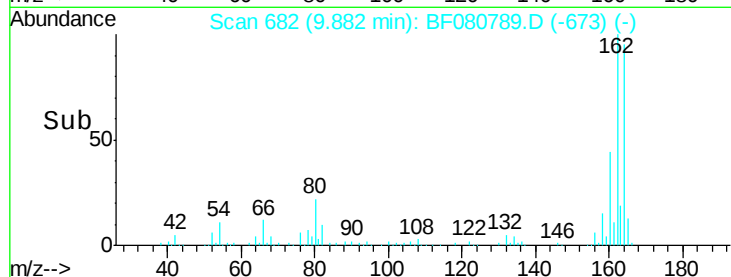
#56
 2,4-Dinitrotoluene
 Concen: 6.77 ng
 RT: 9.88 min Scan# 682
 Delta R.T. -0.19 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

Tot Ion:165 Resp: 21526
 Ion Ratio Lower Upper
 165 100
 63 1.8 46.7 70.1#
 89 2.6 67.4 101.2#
 182 0.0 1.8 2.6#

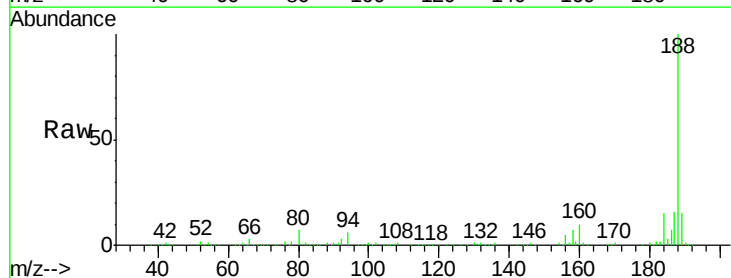


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

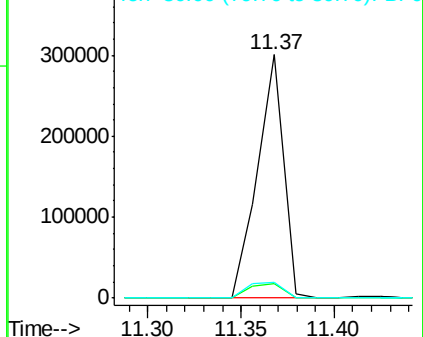
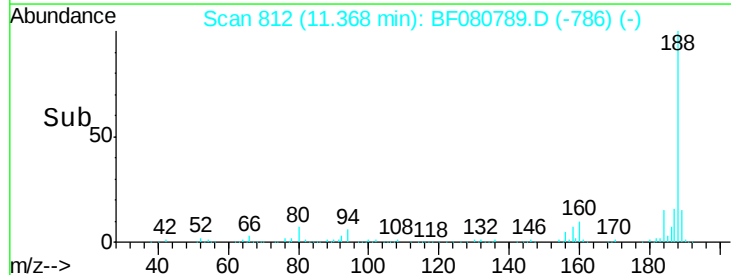


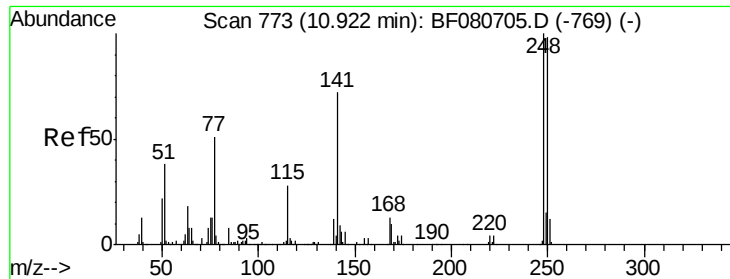
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 812
 Delta R.T. -0.00 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

Tgt Ion:188 Resp: 291217
 Ion Ratio Lower Upper
 188 100
 94 5.9 8.1 12.1#
 80 6.5 9.1 13.7#



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

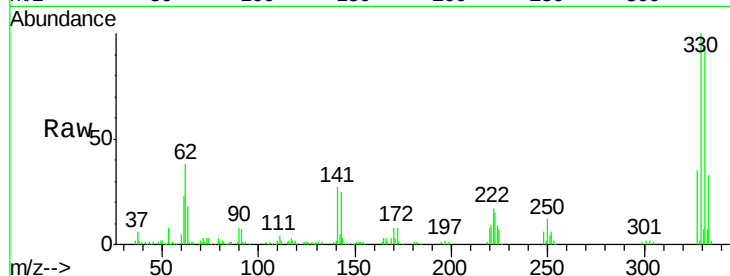




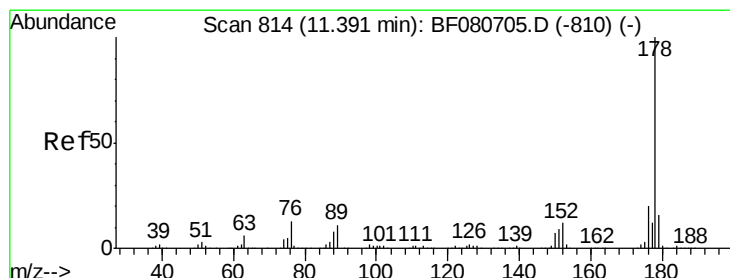
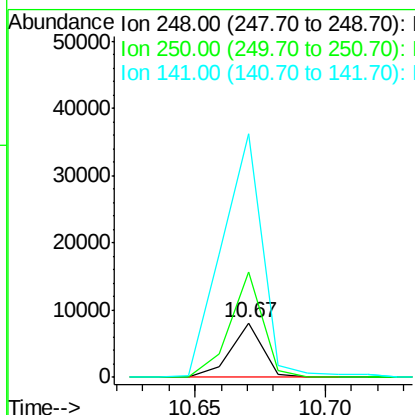
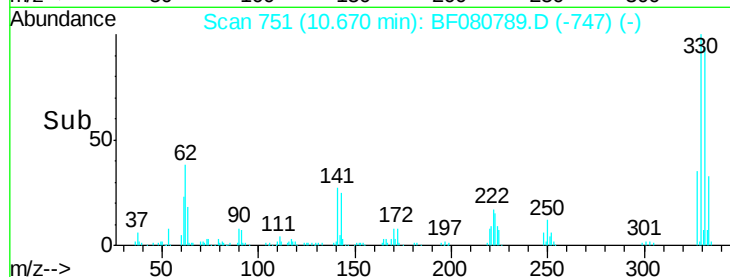
#66
 4-Bromophenyl-phenylether
 Concen: 2.34 ng
 RT: 10.67 min Scan# 751
 Delta R.T. -0.25 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

Tot Ion:248 Resp: 7036
 Ion Ratio Lower Upper
 248 100
 250 192.5 78.4 117.6#
 141 444.5 57.5 86.3#

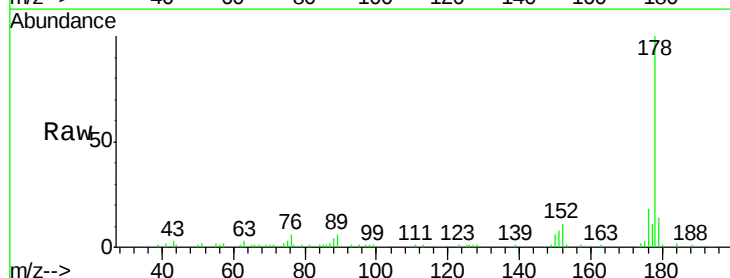


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

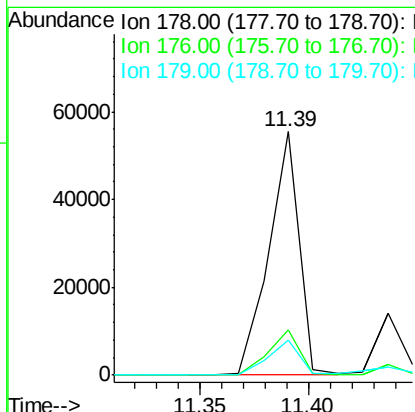
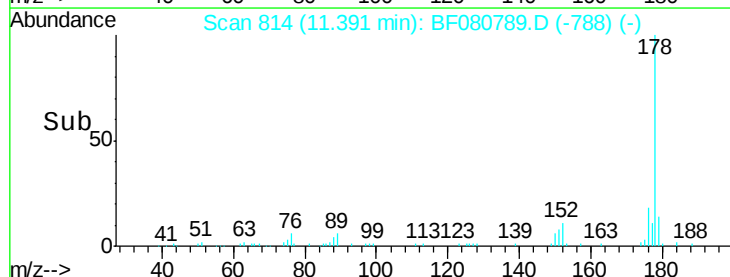


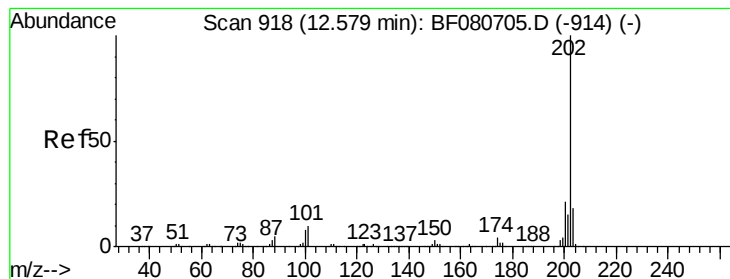
#70
 Phenanthrene
 Concen: 3.70 ng
 RT: 11.39 min Scan# 814
 Delta R.T. -0.00 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

Tgt Ion:178 Resp: 54219
 Ion Ratio Lower Upper
 178 100
 176 18.4 16.2 24.4
 179 14.4 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: 5.87 ng

RT: 12.57 min Scan# 917

Delta R.T. -0.01 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampleId :

SOIL-3

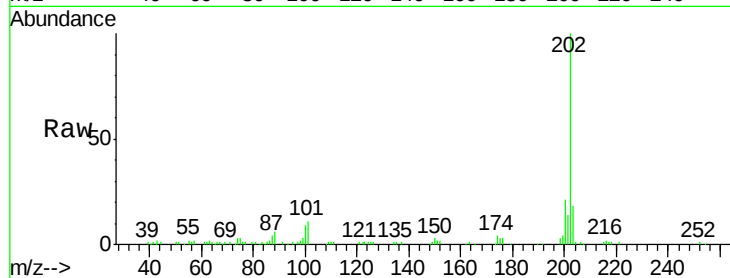
Tot Ion:202 Resp: 83269

Ion Ratio Lower Upper

202 100

101 11.1 0.0 29.6

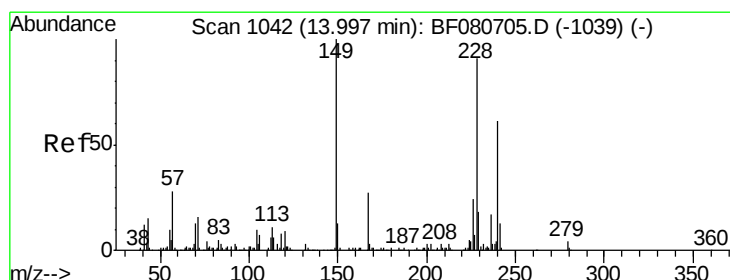
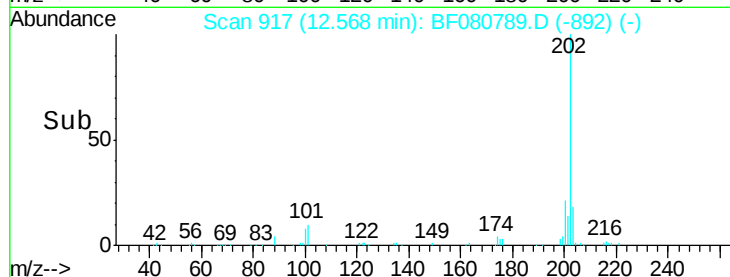
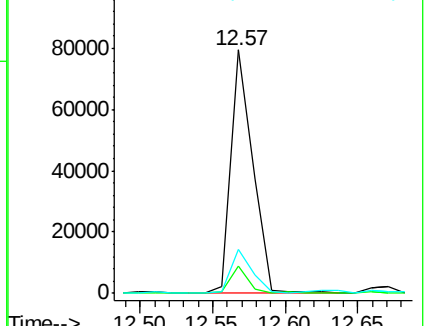
203 18.2 0.0 37.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

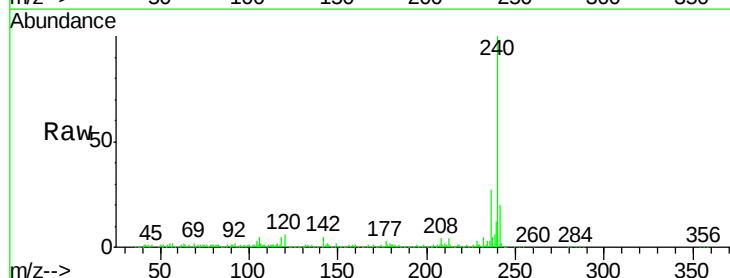
Tgt Ion:240 Resp: 250397

Ion Ratio Lower Upper

240 100

120 5.9 11.8 17.8#

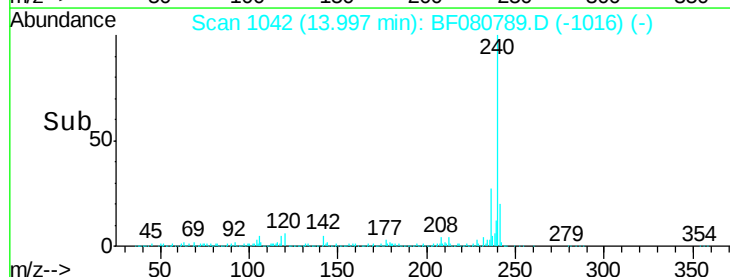
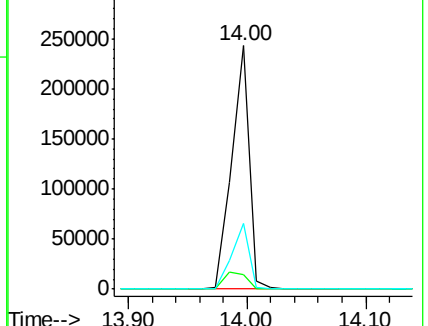
236 27.2 21.8 32.8

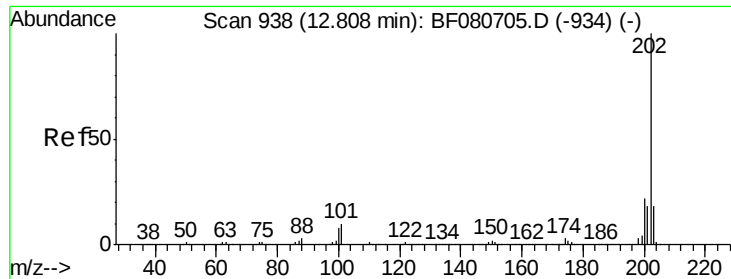


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

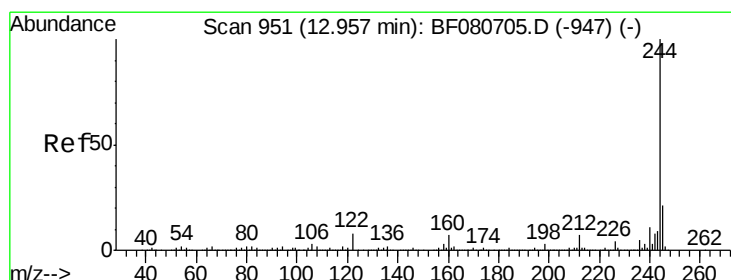
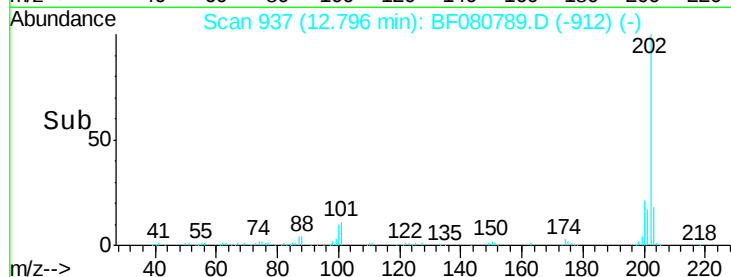
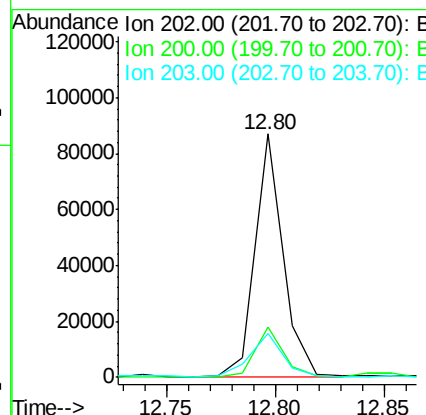
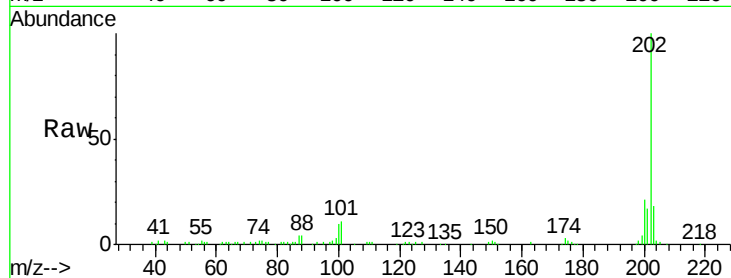




#77
 Pvrene
 Concen: 4.04 ng
 RT: 12.80 min Scan# 937
 Delta R.T. -0.01 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

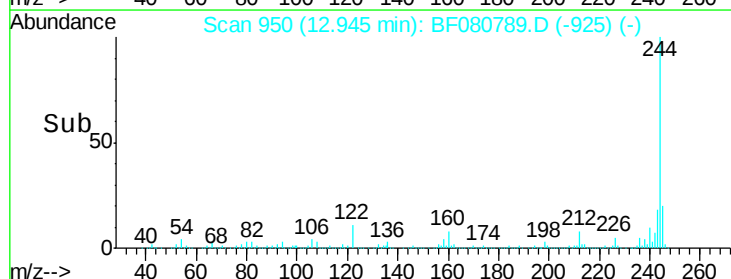
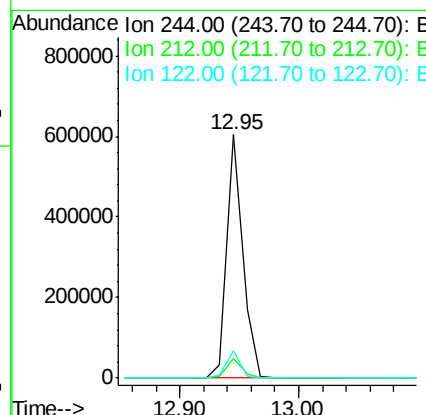
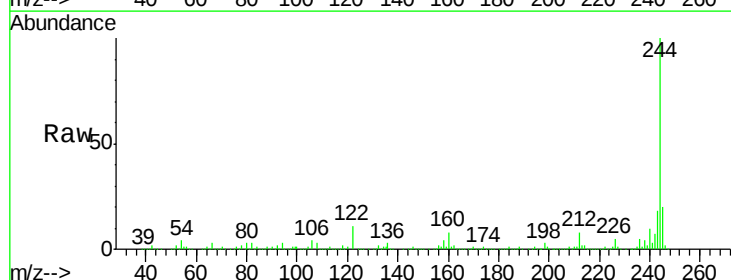
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

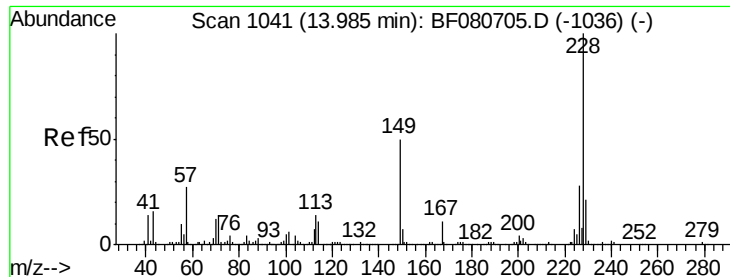
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.4	26.2
203	18.2	14.2	21.2



#78
 Terphenyl-d14
 Concen: 42.13 ng
 RT: 12.95 min Scan# 950
 Delta R.T. -0.01 min
 Lab File: BF080789.D
 Acq: 1 Aug 2015 19:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	5.9	8.9
122	11.3	6.6	9.8





#80

Benzo(a)anthracene

Concen: 3.06 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampleId :

SOIL-3

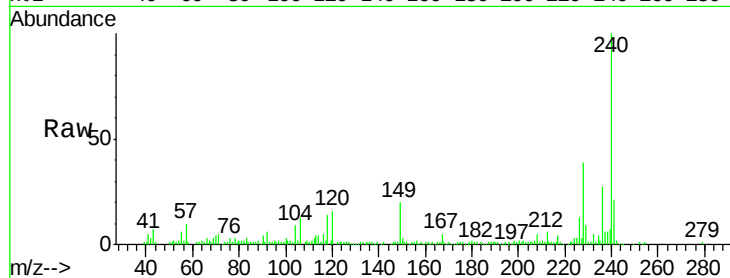
Tot Ion:228 Resp: 46055

Ion Ratio Lower Upper

228 100

226 32.3 22.6 33.8

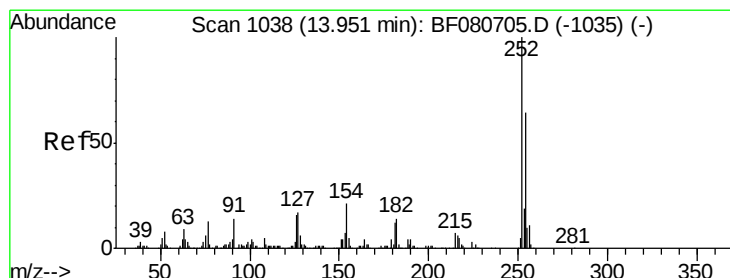
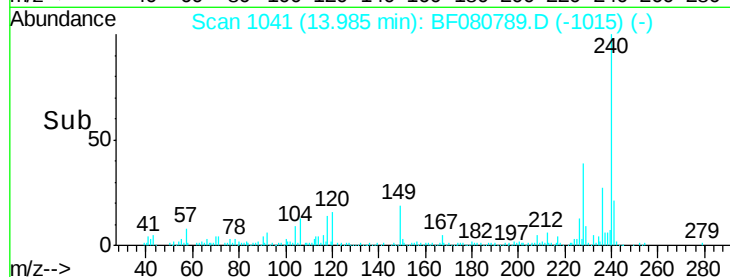
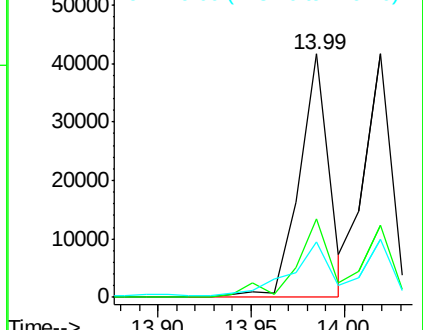
229 22.8 16.6 25.0



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



#81

3,3'-Dichlorobenzidine

Concen: 21.81 ng

RT: 13.95 min Scan# 1038

Delta R.T. -0.00 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

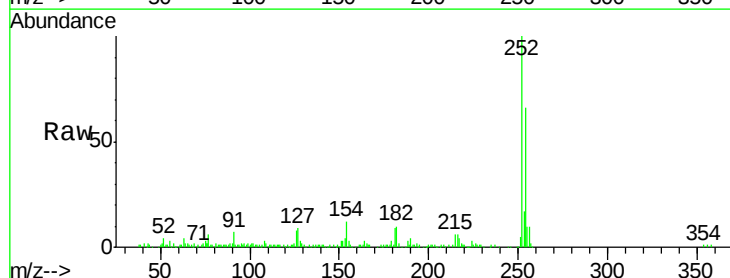
Tgt Ion:252 Resp: 112105

Ion Ratio Lower Upper

252 100

254 65.9 51.0 76.4

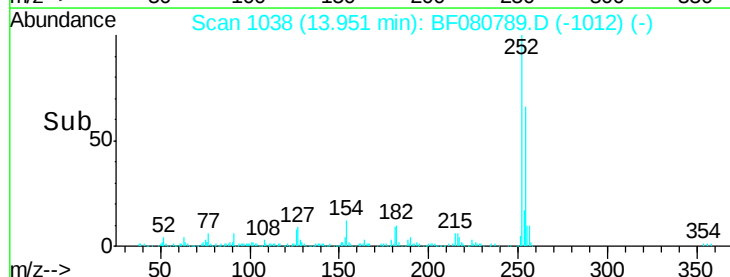
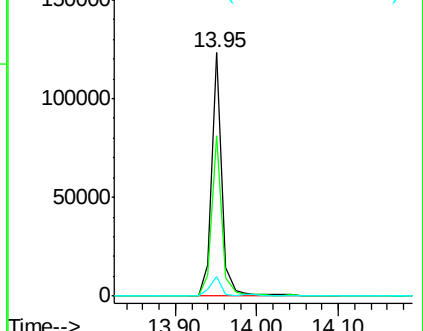
126 8.3 13.2 19.8#

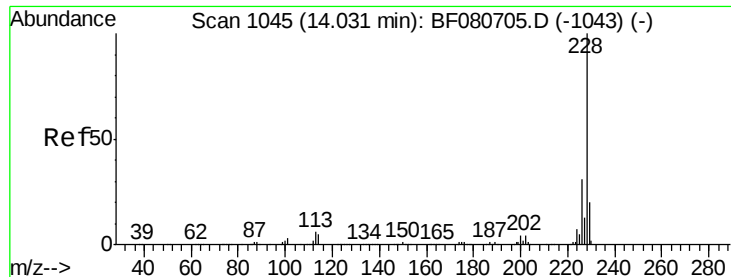


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 3.15 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.05 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampled :

SOIL-3

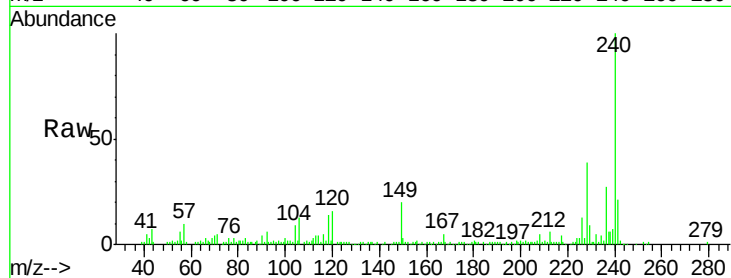
Tot Ion:228 Resp: 46055

Ion Ratio Lower Upper

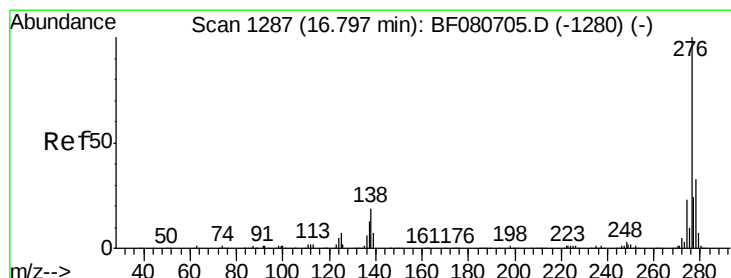
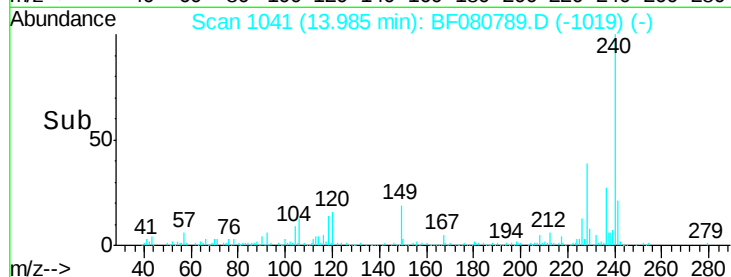
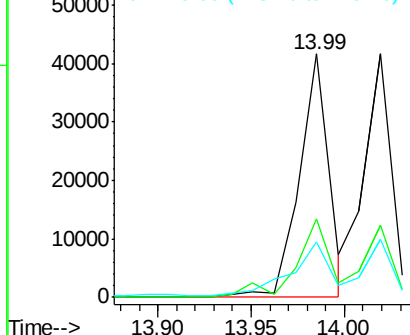
228 100

226 32.3 25.1 37.7

229 22.8 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



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.12 ng

RT: 16.77 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

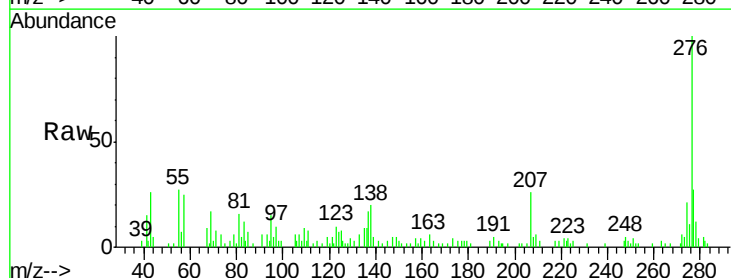
Tgt Ion:276 Resp: 34909

Ion Ratio Lower Upper

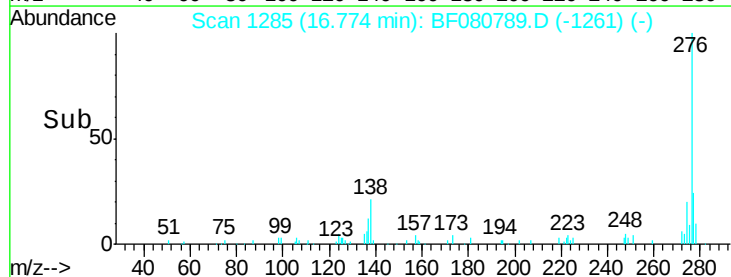
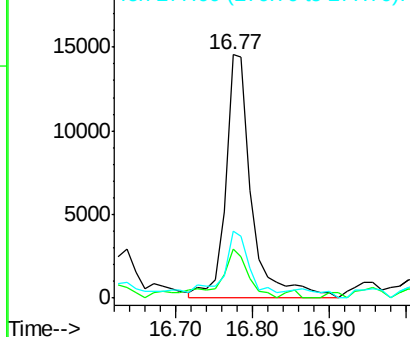
276 100

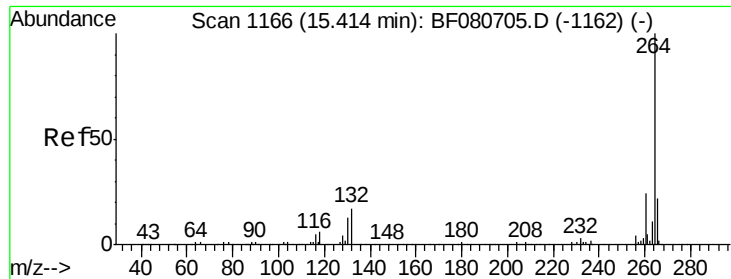
138 24.0 13.2 19.8#

277 31.9 15.4 23.2#



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

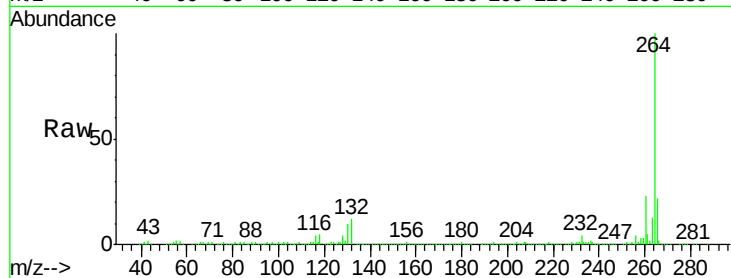




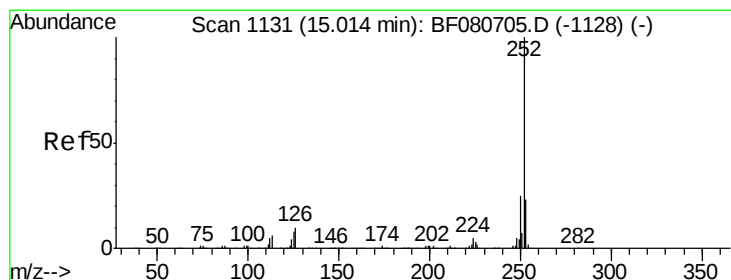
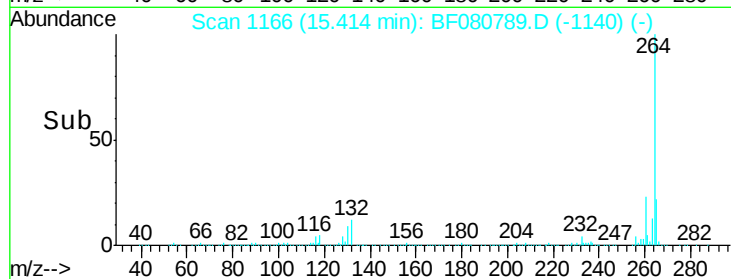
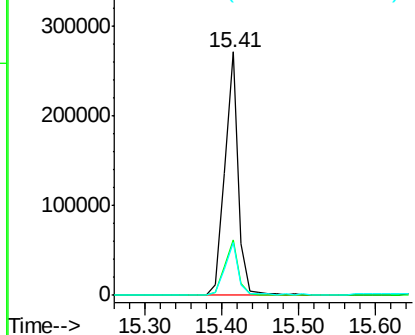
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF080789.D
Acq: 1 Aug 2015 19:32

Instrument :
BNA_F
ClientSampleId :
SOIL-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.4	29.0
265	21.8	17.3	25.9

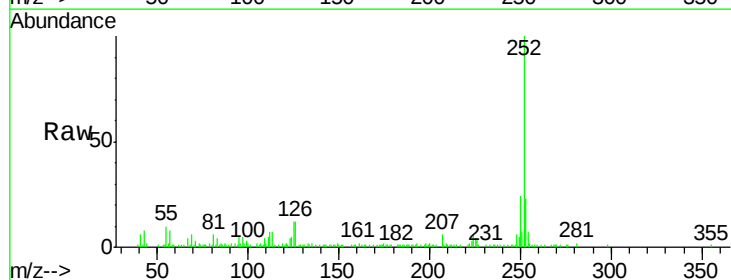


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

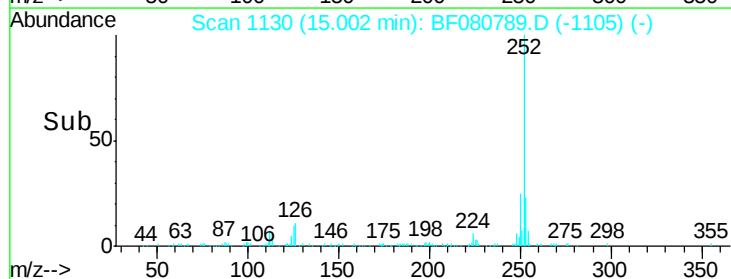
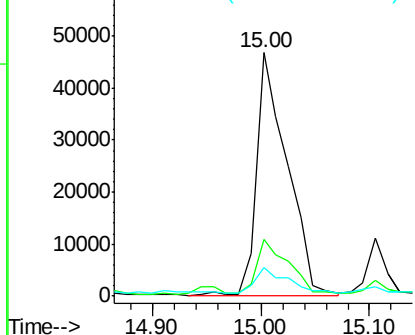


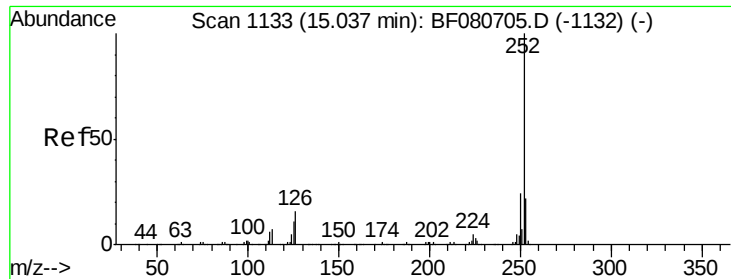
#87
Benzo(b)fluoranthene
Concen: 4.57 ng
RT: 15.00 min Scan# 1130
Delta R.T. -0.01 min
Lab File: BF080789.D
Acq: 1 Aug 2015 19:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	11.5	6.2	9.2#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

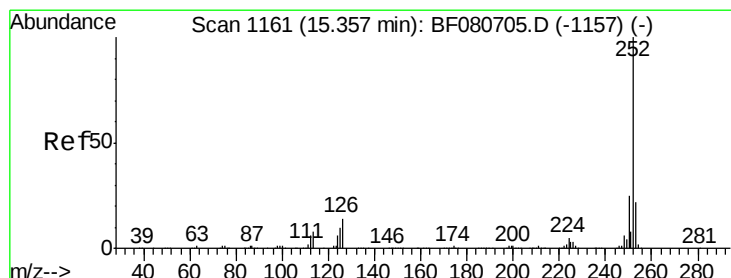
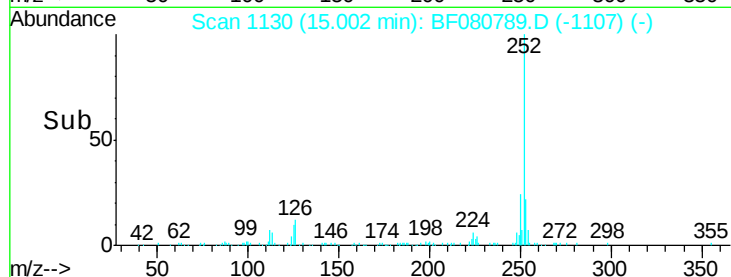
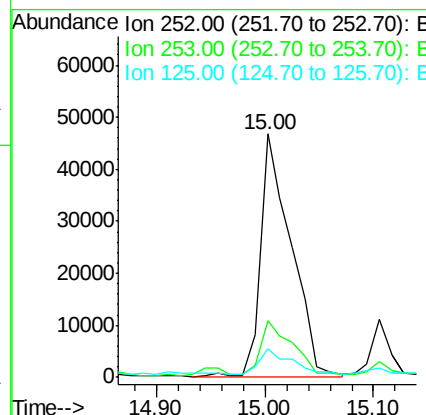
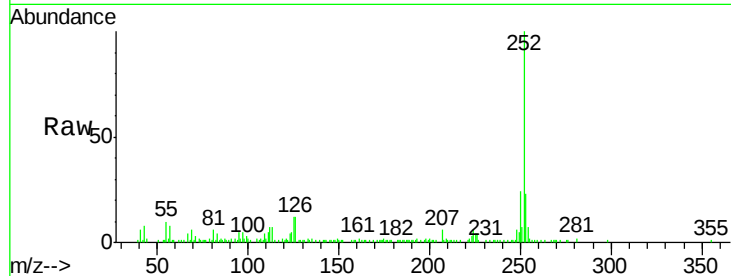




#88
Benzo(k)fluoranthene
Concen: 5.56 ng
RT: 15.00 min Scan# 1130
Delta R.T. -0.03 min
Lab File: BF080789.D
Acq: 1 Aug 2015 19:32

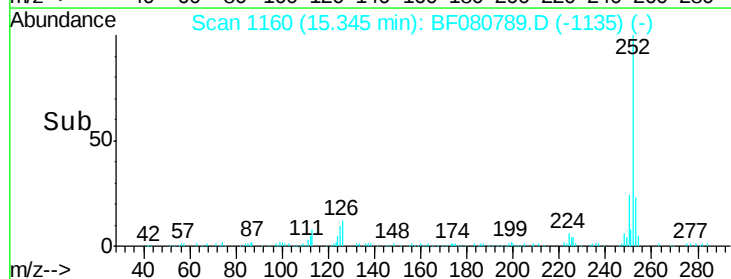
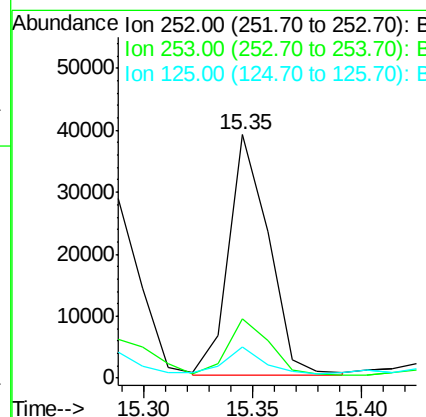
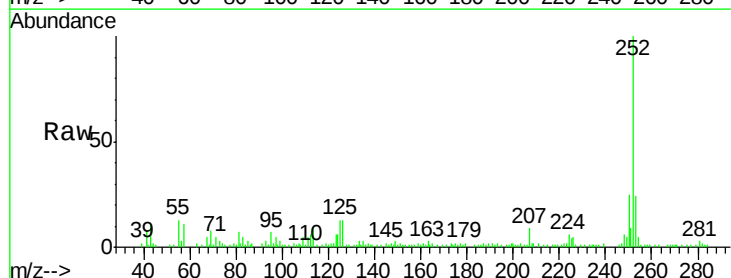
Instrument :
BNA_F
ClientSampleId :
SOIL-3

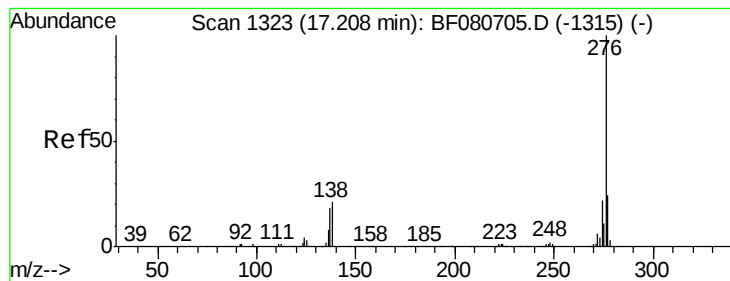
Tot Ion:252 Resp: 92572
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.6
125 11.5 9.0 13.4



#89
Benzo(a)pyrene
Concen: 2.98 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF080789.D
Acq: 1 Aug 2015 19:32

Tgt Ion:252 Resp: 49472
Ion Ratio Lower Upper
252 100
253 24.2 17.2 25.8
125 12.6 8.2 12.4#





#91

Benzo(a,h,i)perylene

Concen: 2.13 ng

RT: 17.20 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF080789.D

Acq: 1 Aug 2015 19:32

Instrument :

BNA_F

ClientSampleId :

SOIL-3

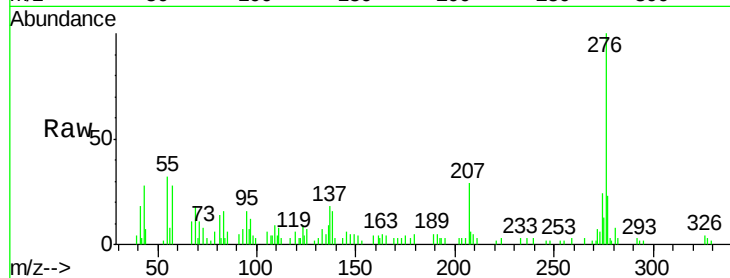
Tot Ion: 276 Resp: 31124

Ion Ratio Lower Upper

276 100

277 23.2 18.9 28.3

138 15.7 16.9 25.3#



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

