$$i_j = block name \quad i \in \{a, ..., h\}$$
 $j \in \{1, ..., 8\}$

ij=1: block ij is not contaminated ij=2: block ij is contaminated

Conditional Probability Tables:

<u>a:</u>	$a_i = 1$	$a_i = 2$	
	0.95	0.05	p(ai)
		1	

12:	a2=1	a ₂ =2
a,=1	0.95	0.05
0,=2	0.65	0.35

(this table is $p(a_2|a_1)$). table is the same for: $p(a_3|a_2)$ $p(a_4|a_3)$

P(as 1a4) P(a6 1 as)

P (9,100)

P (08/07)

also:

b2:	b2=1	b ₂ =2
Q=1,8 Q=1,8 b=1	0.95	0.05
$a_1 = 1, & a_2 = 1, & b_1 = 2$	0.65	0.35
$Q_1 = 1.8$ $Q_2 = 2.8$ $Q_1 = 1$	0.65	0.35
a=2,8 a=1,8 b=1	0.65	0.25
a = 1,& a=2,& b=2	0.35	0.65
a = 2,8 a = 1,8 b = 2	0.35	0.65
a,=2,& a=2,& b=1	0.35	0.65
a = 2,8 a = 2,8 b = 2	0.05	0.95

(this table is P(b2/a,,a2,b).

also:

table is the same for: $p(b_3 | a_2, a_3, b_2)$ $p(b_4 | a_3, a_4, b_3)$ $p(b_5 | a_4, a_5, b_4)$ $p(b_6 | a_5, a_6, b_5)$ $p(b_7 | a_6, a_7, b_6)$ $p(b_8 | a_7, a_8, b_7)$

 $P(c_{i}|b_{i-1},b_{i},c_{i-1})$ $P(d_{i}|c_{i-1},c_{i},d_{i-1})$ $P(e_{i}|d_{i-1},d_{i},e_{i-1})$ $P(f_{i}|e_{i-1},e_{i},f_{i-1})$ $P(g_{i}|f_{i-1},f_{i},g_{i-1})$ $P(h_{i}|g_{i-1},g_{i},h_{i-1})$ for $i \in \{2,...,8\}$