

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Brother	REPORT NO : 24BE0174-HO-1
EQUIPMENT : Wireless LAN Card	REGULATION : Fcc Part15 Subpart C 15.247(c)
MODEL : NC-7100	TEST DISTANCE : 3m(1 to 10GHz) and 1 m(10 to 25GHz)
S/N : BR1-009	DATE : 2003/12/05
POWER : AC120V/60Hz	TEMPERATURE : 22°C
MODE : Tx 2437MHz(802.11g 54MHz)	HUMIDITY : 39%
Remarks : Ext Antenna	
Engineer :	Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1402.0	46.1	48.4	24.3	37.3	5.0	10.0	48.1	50.4	74.0	25.9	23.6
2	1909.0	46.6	47.7	30.7	36.9	5.7	10.0	56.1	57.2	74.0	17.9	16.8
3	2266.7	48.6	48.4	30.7	36.9	6.0	10.0	58.4	58.2	74.0	15.6	15.8
4	2687.9	48.0	49.1	30.7	36.9	6.4	10.0	58.2	59.3	74.0	15.8	14.7
5	4874.0	42.3	42.0	36.0	36.8	9.0	1.0	51.5	51.2	74.0	22.5	22.8
6	7311.0	44.0	44.4	37.8	36.6	11.1	0.5	56.8	57.2	74.0	17.2	16.8
7	9748.0	44.1	44.3	36.9	37.2	13.0	0.5	57.3	57.5	74.0	16.7	16.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
8	12185.0	44.7	44.9	41.0	36.7	14.3	0.5	54.3	54.5	74.0	19.7	19.5
9	14622.0	44.0	44.7	43.2	35.5	15.9	0.6	58.7	59.4	74.0	15.3	14.6
10	17059.0	44.1	44.3	44.8	36.2	17.8	0.4	61.4	61.6	74.0	12.6	12.4
11	19496.0	44.7	44.9	40.5	36.2	19.0	1.0	59.5	59.7	74.0	14.5	14.3
12	21933.0	44.8	44.2	40.6	36.0	19.6	0.9	60.4	59.8	74.0	13.6	14.2
13	24370.0	44.5	44.4	40.3	36.9	21.0	2.2	61.6	61.5	74.0	12.4	12.5

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1402.0	34.2	34.6	24.3	37.3	5.0	10.0	36.2	36.6	54.0	17.8	17.4
2	1909.0	33.7	33.9	30.7	36.9	5.7	10.0	43.2	43.4	54.0	10.8	10.6
3	2266.7	35.7	37.8	30.7	36.9	6.0	10.0	45.5	47.6	54.0	8.5	6.4
4	2687.9	40.5	41.0	30.7	36.9	6.4	10.0	50.7	51.2	54.0	3.3	2.8
5	4874.0	31.2	31.2	36.0	36.8	9.0	1.0	40.4	40.4	54.0	13.6	13.6
6	7311.0	32.0	32.5	37.8	36.6	11.1	0.5	44.8	45.3	54.0	9.2	8.7
7	9748.0	32.3	32.3	36.9	37.2	13.0	0.5	45.5	45.5	54.0	8.5	8.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
8	12185.0	32.4	32.3	41.0	36.7	14.3	0.5	42.0	41.9	54.0	12.0	12.1
9	14622.0	32.5	32.4	43.2	35.5	15.9	0.6	47.2	47.1	54.0	6.8	6.9
10	17059.0	33.1	32.5	44.8	36.2	17.8	0.4	50.4	49.8	54.0	3.6	4.2
11	19496.0	33.0	32.4	40.5	36.2	19.0	1.0	47.8	47.2	54.0	6.2	6.8
12	21933.0	33.5	32.7	40.6	36.0	19.6	0.9	49.1	48.3	54.0	4.9	5.7
13	24370.0	33.4	32.9	40.3	36.9	21.0	2.2	50.5	50.0	54.0	3.5	4.0

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MF060b(10.04.03)

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

COMPANY	: Brother	REPORT NO	: 24BE0174-HO-1
EQUIPMENT	: Wireless LAN Card	REGULATION	: Fcc Part15 Subpart C 15.247(c)
MODEL	: NC-7100	TEST DISTANCE	: 3m(1 to 10GHz) and 1 m(10 to 25GHz)
S/ N	: BR1-009	DATE	: 2003/12/05
POWER	: AC120V/60Hz	TEMPERATURE	: 22℃
MODE	: Tx 2462MHz(802.11g 54MHz)	HUMIDITY	: 30%
Remarks	: Ext Antenna	Engineer	: Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	46.1	47.3	24.3	37.3	5.0	10.0	48.1	49.3	74.0	25.9	24.7
2	1909.0	43.8	45.9	30.7	36.9	5.7	10.0	53.3	55.4	74.0	20.7	18.6
3	2258.0	44.9	50.0	30.7	36.9	6.0	10.0	54.7	59.8	74.0	19.3	14.2
4	2483.9	42.9	53.0	30.7	36.9	6.3	10.0	53.0	63.1	74.0	21.0	10.9
5	2687.9	46.9	48.9	30.7	36.9	6.4	10.0	57.1	59.1	74.0	16.9	14.9
6	4924.0	42.5	42.6	36.3	36.8	9.0	1.0	52.0	52.1	74.0	22.0	21.9
7	7386.0	44.0	43.9	37.9	36.6	11.1	0.5	56.9	56.8	74.0	17.1	17.2
8	9848.0	43.7	43.3	36.6	37.3	13.1	0.5	56.6	56.2	74.0	17.4	17.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12310.0	43.5	44.1	41.6	36.6	14.6	0.5	54.1	54.7	74.0	19.9	19.3
10	14772.0	43.3	43.7	43.3	35.6	15.9	0.6	58.0	58.4	74.0	16.0	15.6
11	17234.0	43.4	43.9	45.2	36.2	17.5	0.3	60.7	61.2	74.0	13.3	12.8
12	19696.0	44.4	44.3	40.6	36.0	18.8	1.3	59.6	59.5	74.0	14.4	14.5
13	22158.0	44.5	44.6	40.6	35.7	19.9	1.4	61.2	61.3	74.0	12.8	12.7
14	24620.0	44.2	44.4	40.4	36.9	21.1	2.6	61.9	62.1	74.0	12.1	11.9

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	34.4	34.5	24.3	37.3	5.0	10.0	36.4	36.5	54.0	17.6	17.5
2	1909.0	33.0	33.7	30.7	36.9	5.7	10.0	42.5	43.2	54.0	11.5	10.8
3	2258.0	33.0	39.6	30.7	36.9	6.0	10.0	42.8	49.4	54.0	11.2	4.6
4	2483.9	33.2	36.9	30.7	36.9	6.3	10.0	43.3	47.0	54.0	10.7	7.0
5	2687.9	37.2	40.4	30.7	36.9	6.4	10.0	47.4	50.6	54.0	6.6	3.4
6	4924.0	31.0	31.4	36.3	36.8	9.0	1.0	40.5	40.9	54.0	13.5	13.1
7	7386.0	32.3	33.0	37.9	36.6	11.1	0.5	45.2	45.9	54.0	8.8	8.1
8	9848.0	32.5	32.6	36.6	37.3	13.1	0.5	45.4	45.5	54.0	8.6	8.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12310.0	32.7	32.5	41.6	36.6	14.6	0.5	43.3	43.1	54.0	10.7	10.9
10	14772.0	32.6	32.0	43.3	35.6	15.9	0.6	47.3	46.7	54.0	6.7	7.3
11	17234.0	33.0	32.6	45.2	36.2	17.5	0.3	50.3	49.9	54.0	3.7	4.1
12	19696.0	33.4	32.5	40.6	36.0	18.8	1.3	48.6	47.7	54.0	5.4	6.3
13	22158.0	33.7	32.8	40.6	35.7	19.9	1.4	50.4	49.5	54.0	3.6	4.5
14	24620.0	33.5	33.0	40.4	36.9	21.1	2.6	51.2	50.7	54.0	2.8	3.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

Atten : 1GHz to 3.5GHz

High Pass Filter : 3.5GHz to 25GHz(3.5GHz Pass)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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MF060b(10.04.03)

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UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

COMPANY : Brother
EQUIPMENT : Wireless LAN Card
MODEL : NC-7100
S/ N : BR1-009
POWER : AC120V/60Hz
MODE : Tx 2412MHz(802.11b 11MHz)
Remarks : In Antenna

REPORT NO : 24BE0174-HO-1
REGULATION : Fcc Part15 Subpart C 15.247(c)
TEST DISTANCE : 3m(1 to 10GHz) and 1 m(10 to 25GHz)
DATE : 2003/12/05
TEMPERATURE : 22°C
HUMIDITY : 39%

Engineer : Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	48.3	47.9	24.3	37.3	5.0	10.0	50.3	49.9	74.0	23.7	24.1
2	1909.0	44.3	45.0	30.7	36.9	5.7	10.0	53.8	54.5	74.0	20.2	19.5
3	2260.1	50.0	51.3	30.7	36.9	6.0	10.0	59.8	61.1	74.0	14.2	12.9
4	2390.0	47.8	50.9	30.5	36.9	6.3	10.0	57.7	60.8	74.0	16.3	13.2
5	2687.9	50.0	51.0	30.7	36.9	6.4	10.0	60.2	61.2	74.0	13.8	12.8
6	4824.0	48.6	49.2	35.7	36.8	8.9	1.0	57.4	58.0	74.0	16.6	16.0
7	7236.0	41.9	43.1	37.7	36.5	11.0	0.5	54.6	55.8	74.0	19.4	18.2
8	9648.0	43.0	42.8	37.2	37.2	12.9	0.5	56.4	56.2	74.0	17.6	17.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12060.0	42.3	41.2	40.3	36.8	14.4	0.5	51.2	50.1	74.0	22.8	23.9
10	14472.0	41.8	42.2	43.0	35.3	15.7	0.6	56.3	56.7	74.0	17.7	17.3
11	16884.0	42.2	42.0	44.7	36.4	17.3	0.4	58.7	58.5	74.0	15.3	15.5
12	19296.0	42.9	42.8	40.8	35.9	18.6	0.9	57.8	57.7	74.0	16.2	16.3
13	21708.0	43.4	42.9	40.5	36.6	19.7	0.6	58.1	57.6	74.0	15.9	16.4
14	24120.0	44.1	44.0	40.2	36.5	20.9	1.7	60.9	60.8	74.0	13.1	13.2

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	34.8	34.6	24.3	37.3	5.0	10.0	36.8	36.6	54.0	17.2	17.4
2	1909.0	33.1	32.8	30.7	36.9	5.7	10.0	42.6	42.3	54.0	11.4	11.7
3	2260.1	39.7	41.0	30.7	36.9	6.0	10.0	49.5	50.8	54.0	4.5	3.2
4	2390.0	38.1	39.9	30.5	36.9	6.3	10.0	48.0	49.8	54.0	6.0	4.2
5	2687.9	40.8	41.9	30.7	36.9	6.4	10.0	51.0	52.1	54.0	3.0	1.9
6	4824.0	35.6	35.9	35.7	36.8	8.9	1.0	44.4	44.7	54.0	9.6	9.3
7	7236.0	31.6	31.7	37.7	36.5	11.0	0.5	44.3	44.4	54.0	9.7	9.6
8	9648.0	32.5	32.6	37.2	37.2	12.9	0.5	45.9	46.0	54.0	8.1	8.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12060.0	32.1	32.2	40.3	36.8	14.4	0.5	41.0	41.1	54.0	13.0	12.9
10	14472.0	31.5	31.2	43.0	35.3	15.7	0.6	46.0	45.7	54.0	8.0	8.3
11	16884.0	32.4	32.3	44.7	36.4	17.3	0.4	48.9	48.8	54.0	5.1	5.2
12	19296.0	32.2	32.4	40.8	35.9	18.6	0.9	47.1	47.3	54.0	6.9	6.7
13	21708.0	33.5	33.8	40.5	36.6	19.7	0.6	48.2	48.5	54.0	5.8	5.5
14	24120.0	33.7	33.8	40.2	36.5	20.9	1.7	50.5	50.6	54.0	3.5	3.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

Atten : 1GHz to 3.5GHz

High Pass Filter : 3.5GHz to 25GHz(3.5GHz Pass)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Brother
EQUIPMENT : Wireless LAN Card
MODEL : NC-7100
S/N : BR1-009
POWER : AC120V/60Hz
MODE : Tx 2437MHz(802.11b 11M) HUMIDITY : 39%
Remarks : In Antenna

REPORT NO : 24BE0174-HO-1
REGULATION : Fcc Part15 Subpart C 15.247(c)
TEST DISTANCE : 3m(1 to 10GHz) and 1 m(10 to 25GHz)
DATE : 2003/12/05
TEMPERATURE : 22℃

Engineer : Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1402.0	47.5	46.0	24.3	37.3	5.0	10.0	49.5	48.0	74.0	24.5	26.0
2	1909.0	45.3	46.2	30.7	36.9	5.7	10.0	54.8	55.7	74.0	19.2	18.3
3	2266.7	49.1	49.8	30.7	36.9	6.0	10.0	58.9	59.6	74.0	15.1	14.4
4	2687.9	50.6	51.7	30.7	36.9	6.4	10.0	60.8	61.9	74.0	13.2	12.1
5	4874.0	48.5	52.0	36.0	36.8	9.0	1.0	57.7	61.2	74.0	16.3	12.8
6	7311.0	41.4	41.1	37.8	36.6	11.1	0.5	54.2	53.9	74.0	19.8	20.1
7	9748.0	42.8	42.7	36.9	37.2	13.0	0.5	56.0	55.9	74.0	18.0	18.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
8	12185.0	42.0	43.0	41.0	36.7	14.3	0.5	51.6	52.6	74.0	22.4	21.4
9	14622.0	41.7	42.0	43.2	35.5	15.9	0.6	56.4	56.7	74.0	17.6	17.3
10	17059.0	43.0	42.6	44.8	36.2	17.8	0.4	60.3	59.9	74.0	13.7	14.1
11	19496.0	43.2	43.6	40.5	36.2	19.0	1.0	58.0	58.4	74.0	16.0	15.6
12	21933.0	43.7	43.4	40.6	36.0	19.6	0.9	59.3	59.0	74.0	14.7	15.0
13	24370.0	44.0	43.5	40.3	36.9	21.0	2.2	61.1	60.6	74.0	12.9	13.4

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1402.0	34.4	33.6	24.3	37.3	5.0	10.0	36.4	35.6	54.0	17.6	18.4
2	1909.0	33.0	33.1	30.7	36.9	5.7	10.0	42.5	42.6	54.0	11.5	11.4
3	2266.7	39.7	40.6	30.7	36.9	6.0	10.0	49.5	50.4	54.0	4.5	3.6
4	2687.9	41.0	42.0	30.7	36.9	6.4	10.0	51.2	52.2	54.0	2.8	1.8
5	4874.0	35.2	38.5	36.0	36.8	9.0	1.0	44.4	47.7	54.0	9.6	6.3
6	7311.0	31.4	31.6	37.8	36.6	11.1	0.5	44.2	44.4	54.0	9.8	9.6
7	9748.0	32.6	32.7	36.9	37.2	13.0	0.5	45.8	45.9	54.0	8.2	8.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
8	12185.0	32.3	32.2	41.0	36.7	14.3	0.5	41.9	41.8	54.0	12.1	12.2
9	14622.0	31.8	31.8	43.2	35.5	15.9	0.6	46.5	46.5	54.0	7.5	7.5
10	17059.0	33.0	33.1	44.8	36.2	17.8	0.4	50.3	50.4	54.0	3.7	3.6
11	19496.0	33.4	33.5	40.5	36.2	19.0	1.0	48.2	48.3	54.0	5.8	5.7
12	21933.0	34.0	34.2	40.6	36.0	19.6	0.9	49.6	49.8	54.0	4.4	4.2
13	24370.0	34.3	34.0	40.3	36.9	21.0	2.2	51.4	51.1	54.0	2.6	2.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

Atten : 1GHz to 3.5GHz

High Pass Filter : 3.5GHz to 25GHz(3.5GHz Pass)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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MF060b(10.04.03)

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY	: Brother	REPORT NO	: 24BE0174-HO-1
EQUIPMENT	: Wireless LAN Card	REGULATION	: Fcc Part15 Subpart C 15.247(c)
MODEL	: NC-7100	TEST DISTANCE	: 3m(1 to 10GHz) and 1 m(10 to 25GHz)
S/ N	: BR1-009	DATE	: 2003/12/05
POWER	: AC120V/60Hz	TEMPERATURE	: 22℃
MODE	: Tx 2462MHz(802.11b 11MHz)	HUMIDITY	: 39%
Remarks	: In Antenna	Engineer	: Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	48.0	47.8	24.3	37.3	5.0	10.0	50.0	49.8	74.0	24.0	24.2
2	1909.0	44.7	46.0	30.7	36.9	5.7	10.0	54.2	55.5	74.0	19.8	18.5
3	2258.0	49.5	51.8	30.7	36.9	6.0	10.0	59.3	61.6	74.0	14.7	12.4
4	2483.9	49.0	51.2	30.7	36.9	6.3	10.0	59.1	61.3	74.0	14.9	12.7
5	2687.9	49.6	51.1	30.7	36.9	6.4	10.0	59.8	61.3	74.0	14.2	12.7
6	4924.0	53.1	56.0	36.3	36.8	9.0	1.0	62.6	65.5	74.0	11.4	8.5
7	7386.0	42.2	41.9	37.9	36.6	11.1	0.5	55.1	54.8	74.0	18.9	19.2
8	9848.0	43.0	43.1	36.6	37.3	13.1	0.5	55.9	56.0	74.0	18.1	18.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12310.0	42.9	42.5	41.6	36.6	14.6	0.5	53.5	53.1	74.0	20.5	20.9
10	14772.0	42.7	42.3	43.3	35.6	15.9	0.6	57.4	57.0	74.0	16.6	17.0
11	17234.0	43.3	42.1	45.2	36.2	17.5	0.3	60.6	59.4	74.0	13.4	14.6
12	19696.0	43.1	43.0	40.6	36.0	18.8	1.3	58.3	58.2	74.0	15.7	15.8
13	22158.0	43.8	44.4	40.6	35.7	19.9	1.4	60.5	61.1	74.0	13.5	12.9
14	24620.0	44.0	43.6	40.4	36.9	21.1	2.6	61.7	61.3	74.0	12.3	12.7

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	34.7	34.9	24.3	37.3	5.0	10.0	36.7	36.9	54.0	17.3	17.1
2	1909.0	33.3	33.0	30.7	36.9	5.7	10.0	42.8	42.5	54.0	11.2	11.5
3	2258.0	40.1	42.2	30.7	36.9	6.0	10.0	49.9	52.0	54.0	4.1	2.0
4	2483.9	39.6	42.5	30.7	36.9	6.3	10.0	49.7	52.6	54.0	4.3	1.4
5	2687.9	40.4	41.8	30.7	36.9	6.4	10.0	50.6	52.0	54.0	3.4	2.0
6	4924.0	39.5	43.1	36.3	36.8	9.0	1.0	49.0	52.6	54.0	5.0	1.4
7	7386.0	31.7	31.9	37.9	36.6	11.1	0.5	44.6	44.8	54.0	9.4	9.2
8	9848.0	32.0	32.1	36.6	37.3	13.1	0.5	44.9	45.0	54.0	9.1	9.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12310.0	32.2	32.0	41.6	36.6	14.6	0.5	42.8	42.6	54.0	11.2	11.4
10	14772.0	32.0	31.5	43.3	35.6	15.9	0.6	46.7	46.2	54.0	7.3	7.8
11	17234.0	33.1	32.3	45.2	36.2	17.5	0.3	50.4	49.6	54.0	3.6	4.4
12	19696.0	33.6	32.6	40.6	36.0	18.8	1.3	48.8	47.8	54.0	5.2	6.2
13	22158.0	33.6	32.7	40.6	35.7	19.9	1.4	50.3	49.4	54.0	3.7	4.6
14	24620.0	33.4	33.3	40.4	36.9	21.1	2.6	51.1	51.0	54.0	2.9	3.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

Atten : 1GHz to 3.5GHz

High Pass Filter : 3.5GHz to 25GHz(3.5GHz Pass)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Brother
EQUIPMENT : Wireless LAN Card
MODEL : NC-7100
S/N : BR1-009
POWER : AC120V/60Hz
MODE : Tx 2412MHz(802.11g 36MHz)
Remarks : In Antenna

REPORT NO : 24BE0174-HO-1
REGULATION : Fcc Part15 Subpart C 15.247(c)
TEST DISTANCE : 3m(1 to 10GHz) and 1 m(10 to 25GHz)
DATE : 2003/12/05
TEMPERATURE : 22°C
HUMIDITY : 39%

Engineer : Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	45.0	47.8	24.3	37.3	5.0	10.0	47.0	49.8	74.0	27.0	24.2
2	1909.0	44.7	47.2	30.7	36.9	5.7	10.0	54.2	56.7	74.0	19.8	17.3
3	2261.0	47.0	49.0	30.7	36.9	6.0	10.0	56.8	58.8	74.0	17.2	15.2
4	2390.0	49.0	55.7	30.5	36.9	6.3	10.0	58.9	65.6	74.0	15.1	8.4
5	2687.9	47.2	49.0	30.7	36.9	6.4	10.0	57.4	59.2	74.0	16.6	14.8
6	4824.0	42.0	44.4	35.7	36.8	8.9	1.0	50.8	53.2	74.0	23.2	20.8
7	7236.0	41.8	42.0	37.7	36.5	11.0	0.5	54.5	54.7	74.0	19.5	19.3
8	9648.0	41.9	42.7	37.2	37.2	12.9	0.5	55.3	56.1	74.0	18.7	17.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12060.0	44.0	44.1	40.3	36.8	14.4	0.5	52.9	53.0	74.0	21.1	21.0
10	14472.0	43.7	43.8	43.0	35.3	15.7	0.6	58.2	58.3	74.0	15.8	15.7
11	16884.0	44.1	43.3	44.7	36.4	17.3	0.4	60.6	59.8	74.0	13.4	14.2
12	19296.0	44.0	43.0	40.8	35.9	18.6	0.9	58.9	57.9	74.0	15.1	16.1
13	21708.0	44.2	43.9	40.5	36.6	19.7	0.6	58.9	58.6	74.0	15.1	15.4
14	24120.0	44.2	44.3	40.2	36.5	20.9	1.7	61.0	61.1	74.0	13.0	12.9

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1401.8	33.7	35.1	24.3	37.3	5.0	10.0	35.7	37.1	54.0	18.3	16.9
2	1909.0	33.1	33.6	30.7	36.9	5.7	10.0	42.6	43.1	54.0	11.4	10.9
3	2260.1	36.3	38.6	30.7	36.9	6.0	10.0	46.1	48.4	54.0	7.9	5.6
4	2390.0	35.0	38.4	30.5	36.9	6.3	10.0	44.9	48.3	54.0	9.1	5.7
5	2687.9	39.9	41.3	30.7	36.9	6.4	10.0	50.1	51.5	54.0	3.9	2.5
6	4824.0	31.5	32.8	35.7	36.8	8.9	1.0	40.3	41.6	54.0	13.7	12.4
7	7236.0	32.0	31.9	37.7	36.5	11.0	0.5	44.7	44.6	54.0	9.3	9.4
8	9648.0	32.0	32.1	37.2	37.2	12.9	0.5	45.4	45.5	54.0	8.6	8.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
9	12060.0	32.2	32.4	40.3	36.8	14.4	0.5	41.1	41.3	54.0	12.9	12.7
10	14472.0	32.1	32.0	43.0	35.3	15.7	0.6	46.6	46.5	54.0	7.4	7.5
11	16884.0	32.7	32.1	44.7	36.4	17.3	0.4	49.2	48.6	54.0	4.8	5.4
12	19296.0	33.1	32.0	40.8	35.9	18.6	0.9	48.0	46.9	54.0	6.0	7.1
13	21708.0	33.5	32.9	40.5	36.6	19.7	0.6	48.2	47.6	54.0	5.8	6.4
14	24120.0	33.8	33.3	40.2	36.5	20.9	1.7	50.6	50.1	54.0	3.4	3.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB
Atten : 1GHz to 3.5GHz

High Pass Filter : 3.5GHz to 25GHz(3.5GHz Pass)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Brother
EQUIPMENT : Wireless LAN Card
MODEL : NC-7100
S/N : BR1-009
POWER : AC120V/60Hz
MODE : Tx 2437MHz(802.11g 36MHz)
Remarks : In Antenna

REPORT NO : 24BE0174-HO-1
REGULATION : Fcc Part15 Subpart C 15.247(c)
TEST DISTANCE : 3m(1 to 10GHz) and 1 m(10 to 25GHz)
DATE : 2003/12/05
TEMPERATURE : 22℃
HUMIDITY : 39%

Engineer : Naoki Sakamoto

PK DETECT : RBW 1MHz VBW 1MHz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1402.0	44.4	48.0	24.3	37.3	5.0	10.0	46.4	50.0	74.0	27.6	24.0
2	1909.0	45.0	47.5	30.7	36.9	5.7	10.0	54.5	57.0	74.0	19.5	17.0
3	2266.7	46.6	49.6	30.7	36.9	6.0	10.0	56.4	59.4	74.0	17.6	14.6
4	2687.9	48.7	49.9	30.7	36.9	6.4	10.0	58.9	60.1	74.0	15.1	13.9
5	4874.0	44.5	48.0	36.0	36.8	9.0	1.0	53.7	57.2	74.0	20.3	16.8
6	7311.0	42.0	42.3	37.8	36.6	11.1	0.5	54.8	55.1	74.0	19.2	18.9
7	9748.0	42.0	43.0	36.9	37.2	13.0	0.5	55.2	56.2	74.0	18.8	17.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
8	12185.0	43.8	43.0	41.0	36.7	14.3	0.5	53.4	52.6	74.0	20.6	21.4
9	14622.0	43.3	42.5	43.2	35.5	15.9	0.6	58.0	57.2	74.0	16.0	16.8
10	17059.0	43.4	42.3	44.8	36.2	17.8	0.4	60.7	59.6	74.0	13.3	14.4
11	19496.0	44.0	42.7	40.5	36.2	19.0	1.0	58.8	57.5	74.0	15.2	16.5
12	21933.0	44.4	44.1	40.6	36.0	19.6	0.9	60.0	59.7	74.0	14.0	14.3
13	24370.0	43.5	43.8	40.3	36.9	21.0	2.2	60.6	60.9	74.0	13.4	13.1

AV DETECT : RBW1MHz VBW10Hz

No.	FREQ [MHz]	T/R READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	High-Pass or Atten [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass(Atten).												
1	1402.0	33.5	34.6	24.3	37.3	5.0	10.0	35.5	36.6	54.0	18.5	17.4
2	1909.0	33.3	33.8	30.7	36.9	5.7	10.0	42.8	43.3	54.0	11.2	10.7
3	2266.7	36.0	38.3	30.7	36.9	6.0	10.0	45.8	48.1	54.0	8.2	5.9
4	2687.9	40.0	41.2	30.7	36.9	6.4	10.0	50.2	51.4	54.0	3.8	2.6
5	4874.0	32.9	34.8	36.0	36.8	9.0	1.0	42.1	44.0	54.0	11.9	10.0
6	7311.0	31.7	32.0	37.8	36.6	11.1	0.5	44.5	44.8	54.0	9.5	9.2
7	9748.0	32.1	32.2	36.9	37.2	13.0	0.5	45.3	45.4	54.0	8.7	8.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac												
8	12185.0	32.2	32.2	41.0	36.7	14.3	0.5	41.8	41.8	54.0	12.2	12.2
9	14622.0	32.0	31.7	43.2	35.5	15.9	0.6	46.7	46.4	54.0	7.3	7.6
10	17059.0	32.8	32.3	44.8	36.2	17.8	0.4	50.1	49.6	54.0	3.9	4.4
11	19496.0	33.5	32.3	40.5	36.2	19.0	1.0	48.3	47.1	54.0	5.7	6.9
12	21933.0	33.7	33.0	40.6	36.0	19.6	0.9	49.3	48.6	54.0	4.7	5.4
13	24370.0	33.6	33.1	40.3	36.9	21.0	2.2	50.7	50.2	54.0	3.3	3.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

Atten : 1GHz to 3.5GHz

High Pass Filter : 3.5GHz to 25GHz(3.5GHz Pass)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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