

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2003/12/07 16:34:29

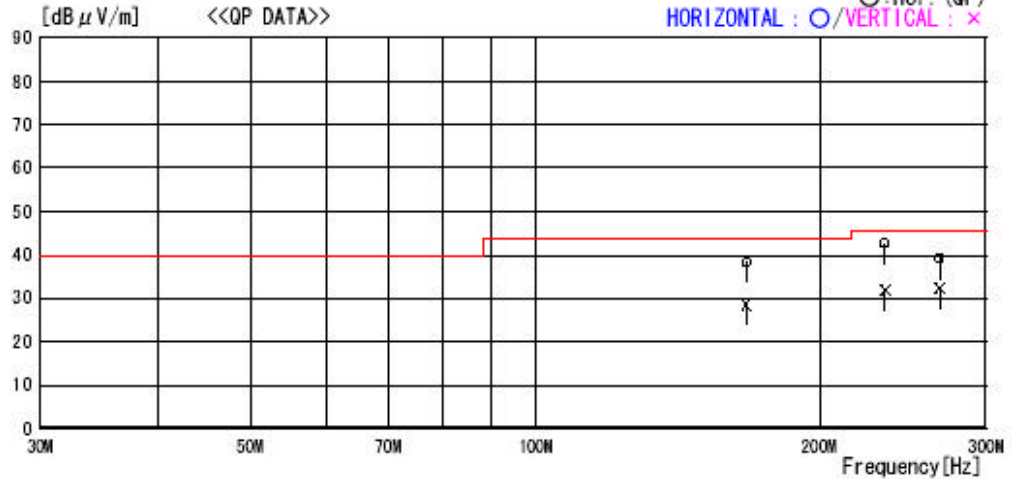
Applicant : Brother
 Kind of EUT : Wireless LAN Card
 Model No. : NC-7100
 Serial No. : BR1-009
 Report No. : 24BE0174-HO
 Power : AC 120V / 60Hz
 Temp/C/Humi% : 22°C / 38%
 Operator : Kenichi Adachi

Mode / Remarks : Tx:2437MHz, IEEE801.11b, 11Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

×:Ver. (QP)
 ○:Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	167.027	38.7	15.1	7.7	23.2	38.3	43.5	5.2	156	96
2	233.996	40.8	16.6	8.1	22.9	42.6	46.0	3.4	136	24
3	267.432	36.3	17.7	8.2	23.0	39.2	46.0	6.8	100	0
----- Vertical -----										
4	167.025	29.1	15.1	7.7	23.2	28.7	43.5	14.8	100	130
5	233.988	30.1	16.6	8.1	22.9	31.9	46.0	14.1	100	93
6	267.432	29.5	17.7	8.2	23.0	32.4	46.0	13.6	178	114

CHART:WITHOUT FACTOR ANT. TYPE : -30MHz - LOOP 30-300MHz BICONICAL 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2003/12/07 16:34:49

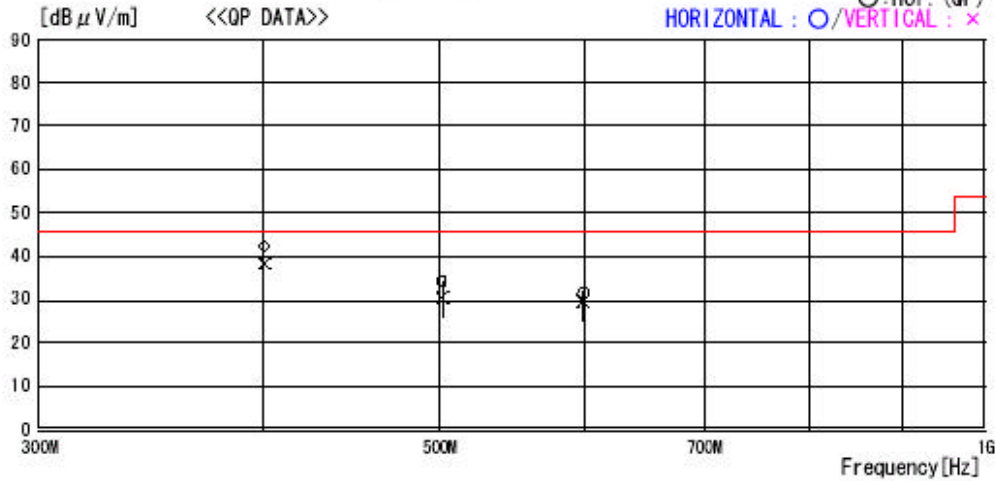
Applicant : Brother
Kind of EUT : Wireless LAN Card
Model No. : NC-7100
Serial No. : BR1-009
Report No. : 24BE0174-HO
Power : AC 120V / 60Hz
Temp./Humi% : 22°C / 38%
Operator : Kenichi Adachi

Mode / Remarks : Tx:2437MHz, IEEE801.11b, 11Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	400.000	39.1	17.3	8.9	23.2	42.1	46.0	3.9	100	24
2	501.154	29.6	18.2	9.3	23.0	34.1	46.0	11.9	186	352
3	599.582	25.8	19.6	9.2	23.2	31.4	46.0	14.6	155	231
----- Vertical -----										
4	399.999	35.3	17.3	8.9	23.2	38.3	46.0	7.7	100	131
5	501.159	25.8	18.2	9.3	23.0	30.3	46.0	15.7	110	338
6	599.595	23.8	19.6	9.2	23.2	29.4	46.0	16.6	100	110

CHART WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

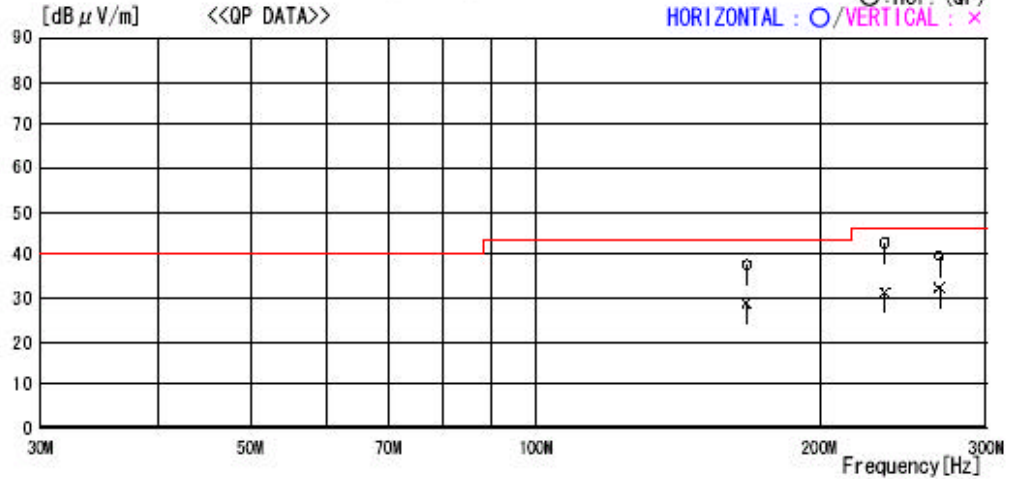
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2003/12/07 16:35:15

Applicant : Brother
 Kind of EUT : Wireless LAN Card
 Model No. : NC-7100
 Serial No. : BR1-009
 Report No. : 24BE0174-HO
 Power : AC 120V / 60Hz
 Temp/C/Humi% : 22°C / 38%
 Operator : Kenichi Adachi

Mode / Remarks : Tx:2462MHz, IEEE801.11b, 11Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m
 Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
 ○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μ V]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μ V/m]	LIMIT [dB μ V/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	167.027	38.0	15.1	7.7	23.2	37.6	43.5	5.9	156	96
2	233.996	40.8	16.6	8.1	22.9	42.6	46.0	3.4	136	24
3	267.432	36.5	17.7	8.2	23.0	39.4	46.0	6.6	100	0
----- Vertical -----										
4	167.025	29.0	15.1	7.7	23.2	28.6	43.5	14.9	100	130
5	233.988	29.6	16.6	8.1	22.9	31.4	46.0	14.6	100	93
6	267.432	29.5	17.7	8.2	23.0	32.4	46.0	13.6	178	114

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2003/12/07 16:35:34

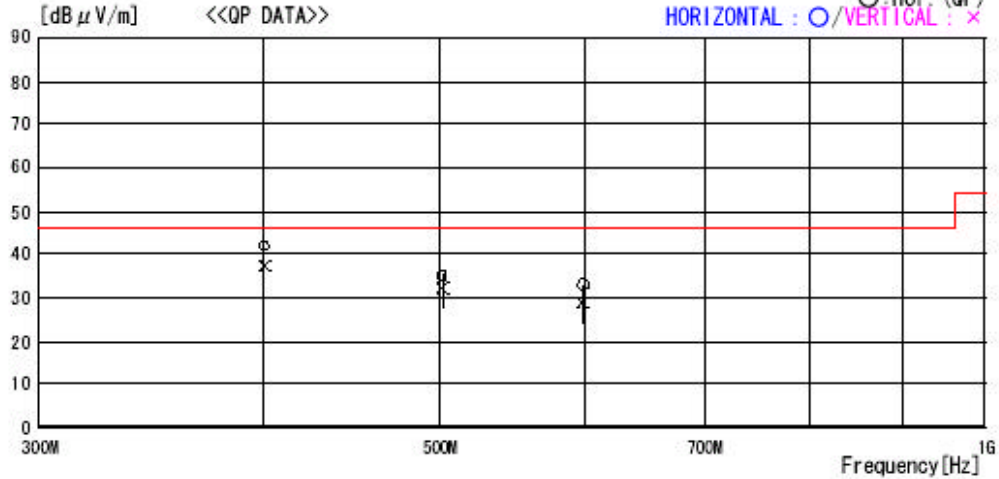
Applicant : Brother
 Kind of EUT : Wireless LAN Card
 Model No. : NC-7100
 Serial No. : BR1-009
 Report No. : 24BE0174-HO
 Power : AC 120V / 60Hz
 Temp/C/Humi% : 22°C / 38%
 Operator : Kenichi Adachi

Mode / Remarks : Tx:2462MHz, IEEE801.11b, 11Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

×:Ver. (QP)
 ○:Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	400.000	38.9	17.3	8.9	23.2	41.9	46.0	4.1	100	24
2	501.154	30.6	18.2	9.3	23.0	35.1	46.0	10.9	186	352
3	599.632	27.4	19.6	9.2	23.2	33.0	46.0	13.0	155	231
----- Vertical -----										
4	399.999	34.5	17.3	8.9	23.2	37.5	46.0	8.5	100	131
5	501.159	27.5	18.2	9.3	23.0	32.0	46.0	14.0	100	338
6	599.595	23.1	19.6	9.2	23.2	28.7	46.0	17.3	100	110

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

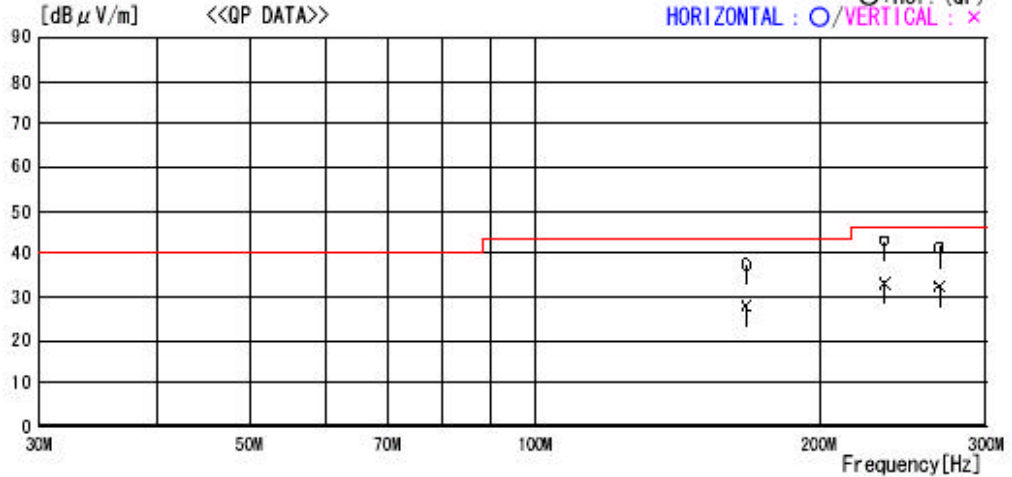
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2003/12/07 16:37:58

Applicant : Brother
 Kind of EUT : Wireless LAN Card
 Model No. : NC-7100
 Serial No. : BR1-009
 Report No. : 24BE0174-HO
 Power : AC 120V / 60Hz
 Temp/C/Humi% : 22°C / 38%
 Operator : Kenichi Adachi

Mode / Remarks : Tx:2412MHz, IEEE801.11g, 54Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m
 Except for the data below : adequate margin data below the limits.

×:Ver. (QP)
 ○:Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	167.027	37.9	15.1	7.7	23.2	37.5	43.5	6.0	156	96
2	233.996	40.9	16.6	8.1	22.9	42.7	46.0	3.3	136	24
3	267.432	38.4	17.7	8.2	23.0	41.3	46.0	4.7	129	0
----- Vertical -----										
4	167.025	28.3	15.1	7.7	23.2	27.9	43.5	15.6	100	130
5	233.988	31.3	16.6	8.1	22.9	33.1	46.0	12.9	100	93
6	267.432	29.5	17.7	8.2	23.0	32.4	46.0	13.6	178	114

CHART-WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2003/12/07 16:38:38

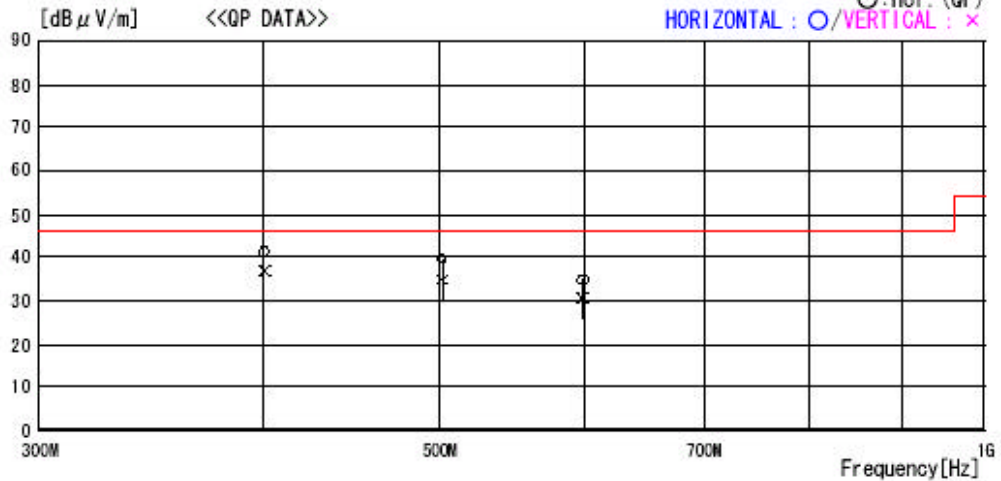
Applicant : Brother	Report No. : 24BE0174-HO
Kind of EUT : Wireless LAN Card	Power : AC 120V / 60Hz
Model No. : NC-7100	Temp./Humi% : 22°C / 38%
Serial No. : BR1-009	Operator : Kenichi Adachi

Mode / Remarks : Tx:2412MHz, IEEE801.11g, 54Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

×:Ver. (QP)
○:Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DE6]
----- Horizontal -----										
1	400.000	38.1	17.3	8.9	23.2	41.1	46.0	4.9	100	24
2	501.154	35.0	18.2	9.3	23.0	39.5	46.0	6.5	186	352
3	599.632	29.1	19.6	9.2	23.2	34.7	46.0	11.3	155	231
----- Vertical -----										
4	400.000	34.1	17.3	8.9	23.2	37.1	46.0	8.9	100	120
5	501.159	30.4	18.2	9.3	23.0	34.9	46.0	11.1	100	338
6	599.595	25.0	19.6	9.2	23.2	30.6	46.0	15.4	100	110

CHART: WITHOUT FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Sani Anechoic Chamber
 Date : 2003/12/07 16:38:15

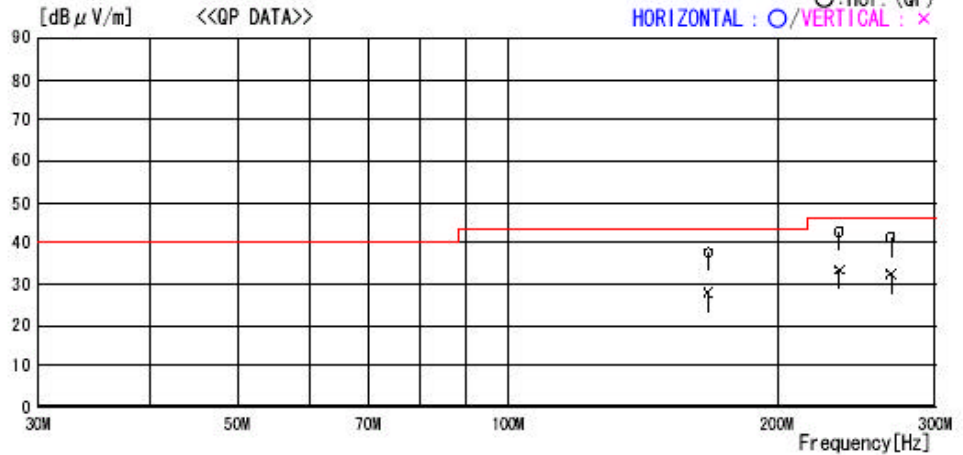
Applicant : Brother
 Kind of EUT : Wireless LAN Card
 Model No. : NC-7100
 Serial No. : BR1-009
 Report No. : 24BE0174-HO
 Power : AC 120V / 60Hz
 Temp./Humi% : 22°C / 38%
 Operator : Kenichi Adachi

Mode / Remarks : Tx:2437MHz, IEEE801.11g, 54Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
 ○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μ V]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μ V/m]	LIMIT [dB μ V/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	167.027	38.1	15.1	7.7	23.2	37.7	43.5	5.8	156	96
2	233.996	40.8	16.6	8.1	22.9	42.6	46.0	3.4	136	24
3	267.432	38.2	17.7	8.2	23.0	41.1	46.0	4.9	129	0
----- Vertical -----										
4	167.025	28.4	15.1	7.7	23.2	28.0	43.5	15.5	100	130
5	233.988	31.5	16.6	8.1	22.9	33.3	46.0	12.7	100	93
6	267.432	29.4	17.7	8.2	23.0	32.3	46.0	13.7	178	114

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

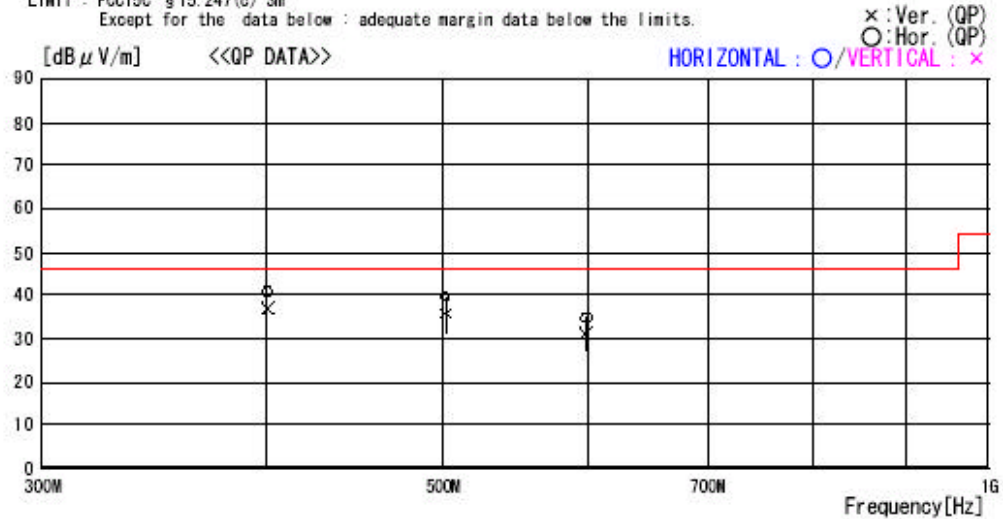
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2003/12/07 16:39:06

Applicant : Brother
Kind of EUT : Wireless LAN Card
Model No. : NC-7100
Serial No. : BR1-009
Report No. : 24BE0174-HO
Power : AC 120V / 60Hz
Temp/C/Humi% : 22°C / 38%
Operator : Kenichi Adachi

Mode / Remarks : Tx:2437MHz, IEEE801.11g, 54Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	400.000	37.8	17.3	8.9	23.2	40.8	46.0	5.2	100	24
2	501.154	34.8	18.2	9.3	23.0	39.3	46.0	6.7	186	352
3	599.632	29.2	19.6	9.2	23.2	34.8	46.0	11.2	155	231
----- Vertical -----										
4	400.000	33.8	17.3	8.9	23.2	36.8	46.0	9.2	100	120
5	501.159	31.3	18.2	9.3	23.0	35.8	46.0	10.2	100	338
6	599.595	25.9	19.6	9.2	23.2	31.5	46.0	14.5	100	110

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

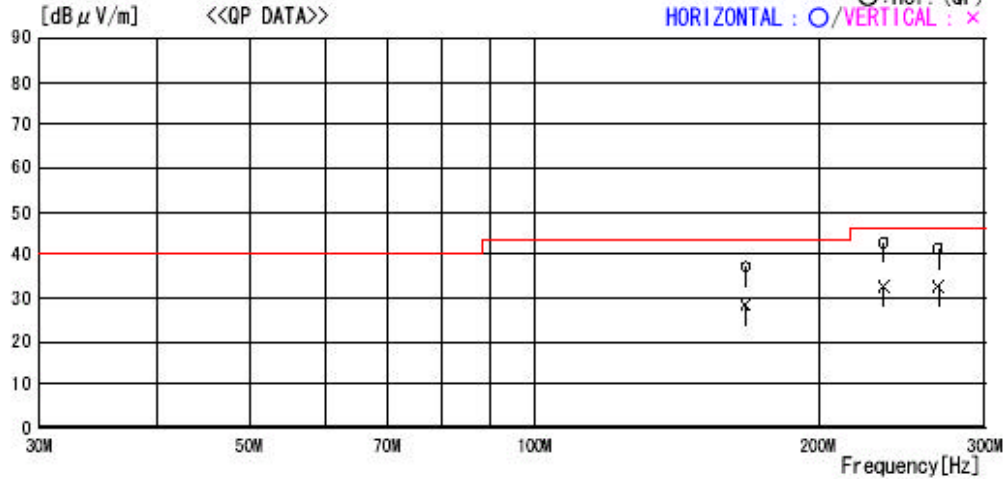
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2003/12/07 16:40:34

Applicant : Brother
Kind of EUT : Wireless LAN Card
Model No. : NC-7100
Serial No. : BR1-009
Report No. : 24BE0174-HO
Power : AC 120V / 60Hz
Temp/C/Humi% : 22°C / 38%
Operator : Kenichi Adachi

Mode / Remarks : Tx:2462MHz, IEEE801.11g, 54Mbps, Ext-antenna

LIMIT : FCC15C §15.247(a) 3m
Except for the data below : adequate margin data below the limits.

×:Ver. (QP)
○:Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	167.027	37.6	15.1	7.7	23.2	37.2	43.5	6.3	156	96
2	233.996	40.8	16.6	8.1	22.9	42.6	46.0	3.4	136	24
3	267.432	38.3	17.7	8.2	23.0	41.2	46.0	4.8	129	0
----- Vertical -----										
4	167.025	28.7	15.1	7.7	23.2	28.3	43.5	15.2	100	130
5	233.988	30.8	16.6	8.1	22.9	32.6	46.0	13.4	100	93
6	267.432	29.7	17.7	8.2	23.0	32.6	46.0	13.4	178	114

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

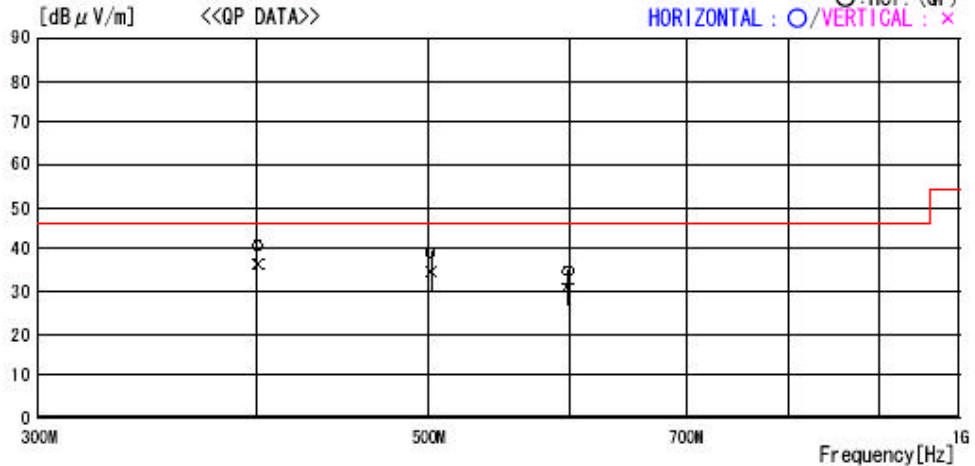
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2003/12/07 16:39:23

Applicant : Brother
 Kind of EUT : Wireless LAN Card
 Model No. : NC-7100
 Serial No. : BR1-009
 Report No. : 24BE0174-HO
 Power : AC 120V / 60Hz
 Temp./Humi% : 22°C / 38%
 Operator : Kenichi Adachi

Mode / Remarks : Tx:2462MHz, IEEE801.11g, 54Mbps, Ext-antenna

LIMIT : FCC15C §15.247(c) 3m
 Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
 ○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μ V]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μ V/m]	LIMIT [dB μ V/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	400.000	37.8	17.3	8.9	23.2	40.8	46.0	5.2	100	24
2	501.154	34.5	18.2	9.3	23.0	39.0	46.0	7.0	186	352
3	599.632	29.2	19.6	9.2	23.2	34.8	46.0	11.2	155	231
----- Vertical -----										
4	400.000	33.5	17.3	8.9	23.2	36.5	46.0	9.5	100	120
5	501.159	29.8	18.2	9.3	23.0	34.3	46.0	11.7	100	338
6	599.595	25.3	19.6	9.2	23.2	30.9	46.0	15.1	100	110

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATION TEST

UL Apex Co., Ltd. Head Office EMC Lab.
No.2 Semi Anechoic Chamber
Report No. : 24BE0174-H0

Applicant : Brother
Kind of Equipment : Wireless LAN Card
Model No. : NC-7100
Serial No. :
Power : AC120V/60Hz
Mode : 2412MHz IEEE802.11b 11Mbps
Remarks : In-Antenna
Date : 11/14/2003
Test Distance : 3 m
Temperature : 20 °C
Humidity : 49 %
Regulation : FCC Part15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER					HOR [dB μV/m]	VER		HOR [dB]	VER
1.	66.80	BB	40.8	40.0	5.9	23.6	1.0	6.0	30.1	29.3	40.0	9.9	10.7
2.	100.12	BB	41.3	35.2	8.4	23.3	1.2	6.0	33.6	27.5	43.5	9.9	16.0
3.	133.83	BB	40.3	36.3	13.9	23.3	1.5	6.0	38.4	34.4	43.5	5.1	9.1
4.	167.09	BB	34.7	30.3	15.2	23.2	1.7	6.0	34.4	30.0	43.5	9.1	13.5
5.	200.48	BB	34.1	33.7	16.2	23.3	1.9	6.0	34.9	34.5	43.5	8.6	9.0
6.	233.95	BB	39.1	32.2	16.7	23.0	2.1	6.0	40.9	34.0	46.0	5.1	12.0
7.	267.30	BB	36.3	32.9	17.9	23.1	2.2	6.0	39.3	35.9	46.0	6.7	10.1
8.	367.30	BB	38.8	30.2	16.4	23.1	2.6	6.1	40.8	32.2	46.0	5.2	13.8
9.	399.99	BB	39.0	31.6	17.3	23.2	2.7	6.2	42.0	34.6	46.0	4.0	11.4
10.	501.12	BB	34.3	26.7	18.2	23.0	3.1	6.2	38.8	31.2	46.0	7.2	14.8
11.	601.38	BB	36.6	29.0	19.6	23.2	3.1	6.1	42.2	34.6	46.0	3.8	11.4
12.	902.50	BB	32.3	33.9	21.3	23.0	4.4	6.1	41.1	42.7	46.0	4.9	3.3

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE:30-300MHz:Biconical, 300-1000MHz:Logperiodic, 1GHz-:Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd. Head Office EMC Lab.
No.2 Semi Anechoic Chamber
Report No. : 24BE0174-HO

Applicant : Brother
Kind of Equipment : Wireless LAN Card
Model No. : NC-7100
Serial No. :
Power : AC120V/60Hz
Mode : 2437MHz IEEE802.11b 11Mbps
Remarks : In-Antenna
Date : 11/16/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 60 %
Regulation : FCC Part15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μV]	VER					HOR [dB μV/m]	VER	HOR [dB μV/m]	VER	HOR [dB]	VER
1.	66.80	BB	38.6	39.0	5.9	23.6	1.0	6.0	27.9	28.3	40.0	12.1	11.7	
2.	100.12	BB	37.5	34.5	8.4	23.3	1.2	6.0	29.8	26.8	43.5	13.7	16.7	
3.	133.83	BB	39.4	32.7	13.9	23.3	1.5	6.0	37.5	30.8	43.5	6.0	12.7	
4.	167.09	BB	30.4	27.1	15.2	23.2	1.7	6.0	30.1	26.8	43.5	13.4	16.7	
5.	200.48	BB	38.5	29.8	16.2	23.3	1.9	6.0	39.3	30.6	43.5	4.2	12.9	
6.	233.95	BB	38.7	28.6	16.7	23.0	2.1	6.0	40.5	30.4	46.0	5.5	15.6	
7.	267.30	BB	41.5	31.2	17.9	23.1	2.2	6.0	44.5	34.2	46.0	1.5	11.8	
8.	300.60	BB	43.6	38.0	14.4	23.2	2.3	6.0	43.1	37.5	46.0	2.9	8.5	
9.	367.30	BB	36.9	30.5	16.4	23.1	2.6	6.1	38.9	32.5	46.0	7.1	13.5	
10.	399.99	BB	40.8	32.6	17.3	23.2	2.7	6.2	43.8	35.6	46.0	2.2	10.4	
11.	500.00	BB	33.3	28.6	18.2	23.0	3.1	6.2	37.8	33.1	46.0	8.2	12.9	
12.	601.38	BB	38.6	31.3	19.6	23.2	3.1	6.1	44.2	36.9	46.0	1.8	9.1	
13.	902.50	BB	28.9	22.0	21.3	23.0	4.4	6.1	37.7	30.8	46.0	8.3	15.2	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic, 1GHz-: Horn

UL Apex Co., Ltd.

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MF060b(10.04.03)

DATA OF RADIATION TEST

UL Apex Co., Ltd. Head Office EMC Lab.
No.2 Semi Anechoic Chamber
Report No. : 24BE0174-HO

Applicant : Brother
Kind of Equipment : Wireless LAN Card
Model No. : NC-7100
Serial No. :
Power : AC120V/60Hz
Mode : 2462MHz IEEE802.11b 11Mbps
Remarks : In-Antenna
Date : 11/16/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 60 %
Regulation : FCC Part15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]	HOR [dB]	VER [dB]		
1.	66.80	BB	38.6	39.5	5.9	23.6	1.0	6.0	27.9	28.8	40.0	12.1	11.2	
2.	100.12	BB	37.2	35.1	8.4	23.3	1.2	6.0	29.5	27.4	43.5	14.0	16.1	
3.	133.83	BB	39.1	32.6	13.9	23.3	1.5	6.0	37.2	30.7	43.5	6.3	12.8	
4.	167.09	BB	30.2	26.8	15.2	23.2	1.7	6.0	29.9	26.5	43.5	13.6	17.0	
5.	200.48	BB	39.0	30.9	16.2	23.3	1.9	6.0	39.8	31.7	43.5	3.7	11.8	
6.	233.95	BB	39.0	28.7	16.7	23.0	2.1	6.0	40.8	30.5	46.0	5.2	15.5	
7.	267.30	BB	40.1	30.0	17.9	23.1	2.2	6.0	43.1	33.0	46.0	2.9	13.0	
8.	300.60	BB	44.7	38.0	14.4	23.2	2.3	6.0	44.2	37.5	46.0	1.8	8.5	
9.	367.30	BB	37.0	29.9	16.4	23.1	2.6	6.1	39.0	31.9	46.0	7.0	14.1	
10.	399.99	BB	41.5	32.1	17.3	23.2	2.7	6.2	44.5	35.1	46.0	1.5	10.9	
11.	500.00	BB	31.7	31.1	18.2	23.0	3.1	6.2	36.2	35.6	46.0	9.8	10.4	
12.	601.38	BB	38.0	28.0	19.6	23.2	3.1	6.1	43.6	33.6	46.0	2.4	12.4	
13.	902.50	BB	28.9	21.6	21.3	23.0	4.4	6.1	37.7	30.4	46.0	8.3	15.6	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic, 1GHz-: Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd. Head Office EMC Lab.
No.2 Semi Anechoic Chamber
Report No. : 24BE0174-H0

Applicant : Brother
Kind of Equipment : Wireless LAN Card
Model No. : NC-7100
Serial No. :
Power : AC120V/60Hz
Mode : 2412MHz IEEE802.11g 54Mbps
Remarks : In-Antenna
Date : 11/16/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 60 %
Regulation : FCC Part15C § 15.209 (a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]	HOR [dB]	VER [dB]		
1.	66.80	BB	38.8	39.4	5.9	23.6	1.0	6.0	28.1	28.7	40.0	11.9	11.3	
2.	100.12	BB	37.6	35.3	8.4	23.3	1.2	6.0	29.9	27.6	43.5	13.6	15.9	
3.	133.83	BB	38.5	32.3	13.9	23.3	1.5	6.0	36.6	30.4	43.5	6.9	13.1	
4.	167.09	BB	30.0	26.7	15.2	23.2	1.7	6.0	29.7	26.4	43.5	13.8	17.1	
5.	200.48	BB	38.1	31.9	16.2	23.3	1.9	6.0	38.9	32.7	43.5	4.6	10.8	
6.	233.95	BB	39.2	28.9	16.7	23.0	2.1	6.0	41.0	30.7	46.0	5.0	15.3	
7.	267.30	BB	41.0	29.9	17.9	23.1	2.2	6.0	44.0	32.9	46.0	2.0	13.1	
8.	300.60	BB	42.0	35.4	14.4	23.2	2.3	6.0	41.5	34.9	46.0	4.5	11.1	
9.	367.30	BB	34.6	31.2	16.4	23.1	2.6	6.1	36.6	33.2	46.0	9.4	12.8	
10.	399.99	BB	40.0	32.3	17.3	23.2	2.7	6.2	43.0	35.3	46.0	3.0	10.7	
11.	500.00	BB	32.7	28.5	18.2	23.0	3.1	6.2	37.2	33.0	46.0	8.8	13.0	
12.	601.38	BB	38.3	28.9	19.6	23.2	3.1	6.1	43.9	34.5	46.0	2.1	11.5	
13.	902.50	BB	29.3	21.5	21.3	23.0	4.4	6.1	38.1	30.3	46.0	7.9	15.7	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE:30-300MHz:Biconical, 300-1000MHz:Logperiodic, 1GHz-:Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd. Head Office EMC Lab.
No.2 Semi Anechoic Chamber
Report No. : 24BE0174-HO

Applicant : Brother
Kind of Equipment : Wireless LAN Card
Model No. : NC-7100
Serial No. :
Power : AC120V/60Hz
Mode : 2437MHz IEEE802.11g 54Mbps
Remarks : In-Antenna
Date : 11/16/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 60 %
Regulation : FCC Part15C § 15.209 (a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μV]	VER					HOR [dB μV/m]	VER	HOR [dB μV/m]	VER	HOR [dB]	VER
1.	66.80	BB	38.4	39.5	5.9	23.6	1.0	6.0	27.7	28.8	40.0	12.3	11.2	
2.	100.12	BB	37.1	34.3	8.4	23.3	1.2	6.0	29.4	26.6	43.5	14.1	16.9	
3.	133.83	BB	38.8	32.2	13.9	23.3	1.5	6.0	36.9	30.3	43.5	6.6	13.2	
4.	167.09	BB	30.5	26.5	15.2	23.2	1.7	6.0	30.2	26.2	43.5	13.3	17.3	
5.	200.48	BB	39.1	31.7	16.2	23.3	1.9	6.0	39.9	32.5	43.5	3.6	11.0	
6.	233.95	BB	38.6	28.7	16.7	23.0	2.1	6.0	40.4	30.5	46.0	5.6	15.5	
7.	267.30	BB	40.7	29.4	17.9	23.1	2.2	6.0	43.7	32.4	46.0	2.3	13.6	
8.	300.60	BB	44.0	38.0	14.4	23.2	2.3	6.0	43.5	37.5	46.0	2.5	8.5	
9.	367.30	BB	38.9	31.3	16.4	23.1	2.6	6.1	40.9	33.3	46.0	5.1	12.7	
10.	399.99	BB	40.6	32.4	17.3	23.2	2.7	6.2	43.6	35.4	46.0	2.4	10.6	
11.	500.00	BB	32.7	30.0	18.2	23.0	3.1	6.2	37.2	34.5	46.0	8.8	11.5	
12.	601.38	BB	38.4	29.4	19.6	23.2	3.1	6.1	44.0	35.0	46.0	2.0	11.0	
13.	902.50	BB	28.7	22.3	21.3	23.0	4.4	6.1	37.5	31.1	46.0	8.5	14.9	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE:30-300MHz:Biconical, 300-1000MHz:Logperiodic, 1GHz-:Horn