TEST REPORT

Wireless LAN Card

Model Name **TWL-C11**

Tested at **December 22, 2000**

According to

47CFR Part 15C (15.247) &15B
Guidance on Measurements for Direct Sequence Spread Spectrum Systems

Issued for

Tellus Group Corporation

4F, No.15, Industry E. Rd., IX, Science-Based Industrial Park,
Hsinchu, Taiwan, R.O.C.

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION

Accredited Laboratory

11F, NO.1, SEC.4, NAN-KING EAST RD.,
TAIPEI, TAIWAN, R.O.C.

REPORT NO	**:**	RF89120705
PRODUCT	**:**	Wireless LAN Card
MODEL NO	**:**	TWL-C11
SERIAL NO	**:**	N/A
APPLICANT	**:**	Tellus Group Corporation
ADDRESS	**:**	4F, No. 15, Industry E. Rd.,IX, Science-Based Industrial Park, Hsinchu, Taiwan R.O.C.
ISSUED BY	**:**	Advance Data Technology Corporation (ADT Corp.)
OFFICE ADDRESS	**:**	11F, No. 1, Sec. 4, Nan-King East Rd., Taipei, Taiwan, R.O.C.
LABORATORY ADDRESS	**:**	No. 13-1, Lane 19, Wen Shan 3rd St., Kweishan, Taoyuan Hsien, Taiwan, R.O.C.
TEST STANDARD	**:**	47CFR Part 15, Subpart C (15.247) & Subpart B
TEST DATE	**:**	December 22, 2000
TEST RESULT	**:**	Pass

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1 CERTIFICATION

Issue Date: December 22, 2000

PRODUCT	**:** Wireless LAN Card
MODEL NO	**:** TWL-C11
FCC ID	**:** PB6-TWLC11
SPEC.	**:** 2.4 ~ 2.4835 MHz, 11 Channels, DSSS Modulation
APPLICANT	**:** Tellus Group Corporation
TEST STANDARD	**:** FCC 47CFR Part 15, Subpart C(Section 15.247) &Subpart B ANSI C63.4-1992

We, ADVANCE DATA TECHNOLOGY CORPORATION**,** hereby certify that one sample of the designated sample has been tested in our facility. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate representation of the measurements of the sample's EMI characteristics and the energy emitted under the conditions herein specified.

TESTED BY : Steven Lu DATE : Dec. 22, 2000
Steven Lu

PREPARED BY : Demi Chen DATE : Dec. 22, 2000
Demi Chen

APPROVED BY : Alan Lane DATE : Dec. 22, 2000
Dr. Alan Lane, Manager

2 SUMMARY OF TEST RESULTS

47 CFR Part 15, Subpart C			
PARAGRAPH.	TEST REQUIREMENTS	COMPLIANCE (YES/NO)	TEST RESULT
15.107	**AC Power Conducted Emissions Spec.: 48 dBuV**	**Yes**	**Minimum passing margin is –5.52 dBuV At 0.56126 MHz**
15.247(a)(2)	**Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Spec.: min. 500 kHz**	**Yes**	**9.63 MHz > 500 kHz**
15.247(b)	**Maximum Peak Output Power Spec.: max. 30 dBm**	**Yes**	**18.06 dBm < 30 dBm**
15.247(c)	**Transmitter Radiated Emissions Spec.: Table 15.209**	**Yes**	**Minimum passing margin is –10.2 dBuV At 4076.2 MHz**
15.247(d)	**Power Spectral Density Spec.: max. 8dBm**	**Yes**	**-7.13 dBm < 8 dBm**
15.247(c)	**Band Edge Measurement**	**Yes**	**N/A**
15.247(e)	**Processing Gain of Direct Sequence Spread Spectrum System Spec.: min. 10 dB**	**Yes**	**11.4dB≧10dB**

3 DECLARATION OF COMPLIANCE WITH SUBPART B

The digital circuits and receiver portion of the EUT has been tested in ADT. The test result has been verified to comply with FCC Part 15, Subpart B, Class B – Computing Devices (FCC DoC). The engineering test report can be provided upon FCC requests.

4 GENERAL DESCRIPTION

4.1 General Description of EUT

Product	**:**	Wireless LAN Card
Model No	**:**	TWL-C11
Modulation Type	**:**	DBPSK(1Mbps)/DQPSK(2Mbps)/CCK(5.5/11Mbps)
Data Rate	**:**	11/5.5/2/1 Mbps
Operating Frequency	**:**	2.412 - 2.462 GHz
Number of Channel	**:**	11
Channel Spacing	**:**	5 MHz
Transmit Power	**:**	18dBm
Antenna Type	**:**	Printed Antenna
Power Supply	**:**	DC Power
Others	**:**	N/A

Note: Wireless LAN is local area networking without wires, which uses radio frequencies to transmit and receive data between PC's or other network devices without wires or cables. Wireless LAN configurations include independent networks, suitable for small or temporary peer-to-peer configurations, and infrastructure networks, offering fully distributed data connectivity via micro cells and roaming.

The TWL-C11 is designed to meet the mobility, performance, security, interoperability, management, and reliability requirements of IEEE 802.11b high data rate standard. It is easy to install on various devices with PCMCIA type II card slot. When installed, TWL-C11 can communicate with other IEEE 802.11b compatible products to create a wireless network in your office or home.

4.2 Description of Test mode

Eleven channels are provided in this EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

1. Below 1 GHz, the channel 1, 6 and 11 were pre-tested in chamber. The channel 1, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1,6 and 11 were chosen for evaluation.

4.3 Test Methodology

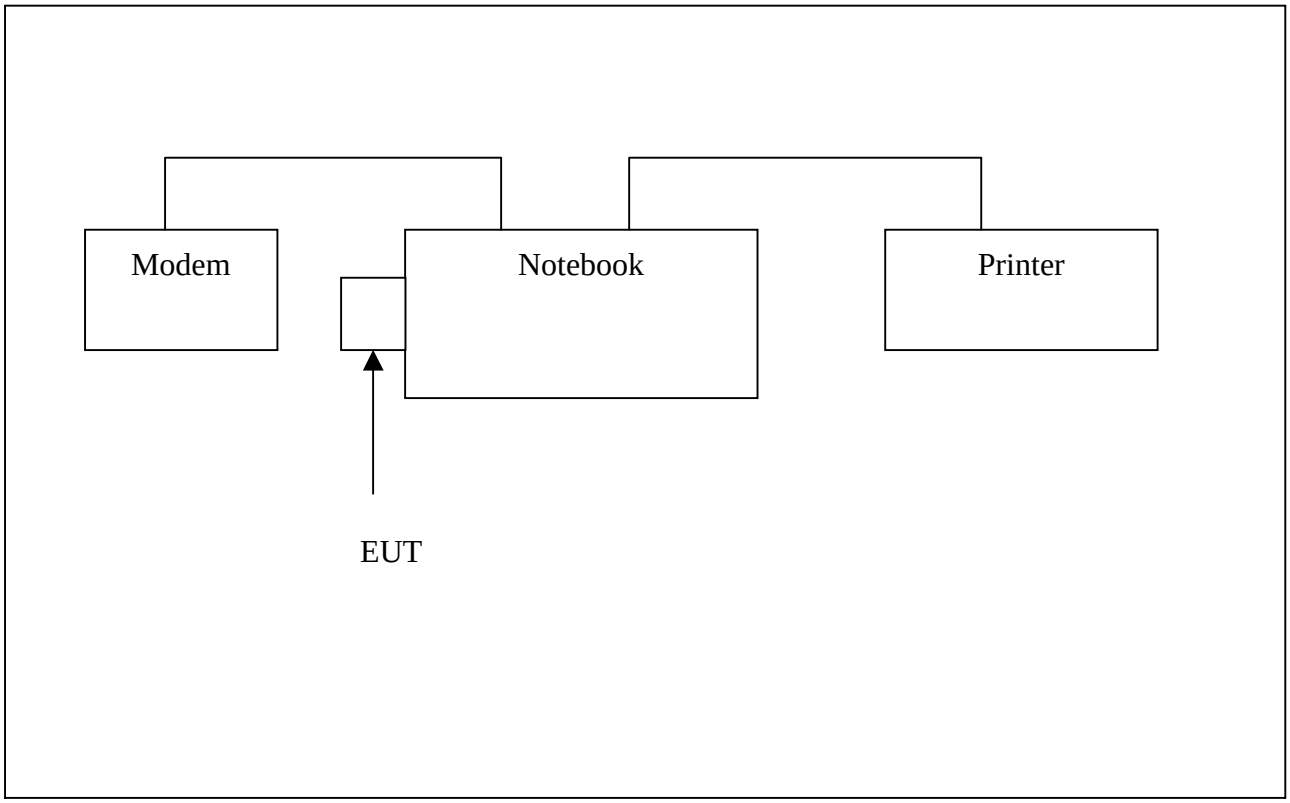
These tests were conducted on a sample of EUT for the evaluation in compliance with FCC CFR47 Part 15, Subpart C (15.247) & Subpart 15 B.

Both conducted and radiated emissions measurements were conducted in accordance with ANSI C63.4: 1992.

4.4 Support Units List

No	Product	Brand	Model No.	Serial No.	I/O Cable
1.	NOTEBOOK	TWINHEAD	P79T	NA	Nonshielded Power (1.8m)
2.	PRINTER	HP	2225C+	3123S97230	Nonshielded Power (1.8m) Shielded Signal (1.2m)
3.	MODEM	ACEEX	1414	980020508	Nonshielded Power (1.9m) Shielded Signal (1.2m)

4.5 Configuration of System Under Test



5 GENERAL INFORMATION OF TEST FACILITY

5.1 Test Lab.

Advance Data Technology Corporation (NVLAP accredited)
R&TTE Certification Division

No. 13-1, Lane 19, Wen Shan 3rd St., Kweishan, Taoyuan,Taiwan, R.O.C.
Tel: +886-3-3270910
Fax: +886-3-3270892

5.2 Calibration Interval

All calibration intervals of the test sites and test instruments are 12 months. The calibrations are traceable to NML/ROC and NIST/USA.

6 TEST PROCEDURES AND TEST RESULTS

6.1 Conducted Emission Measurement

6.1.1 Test Instruments

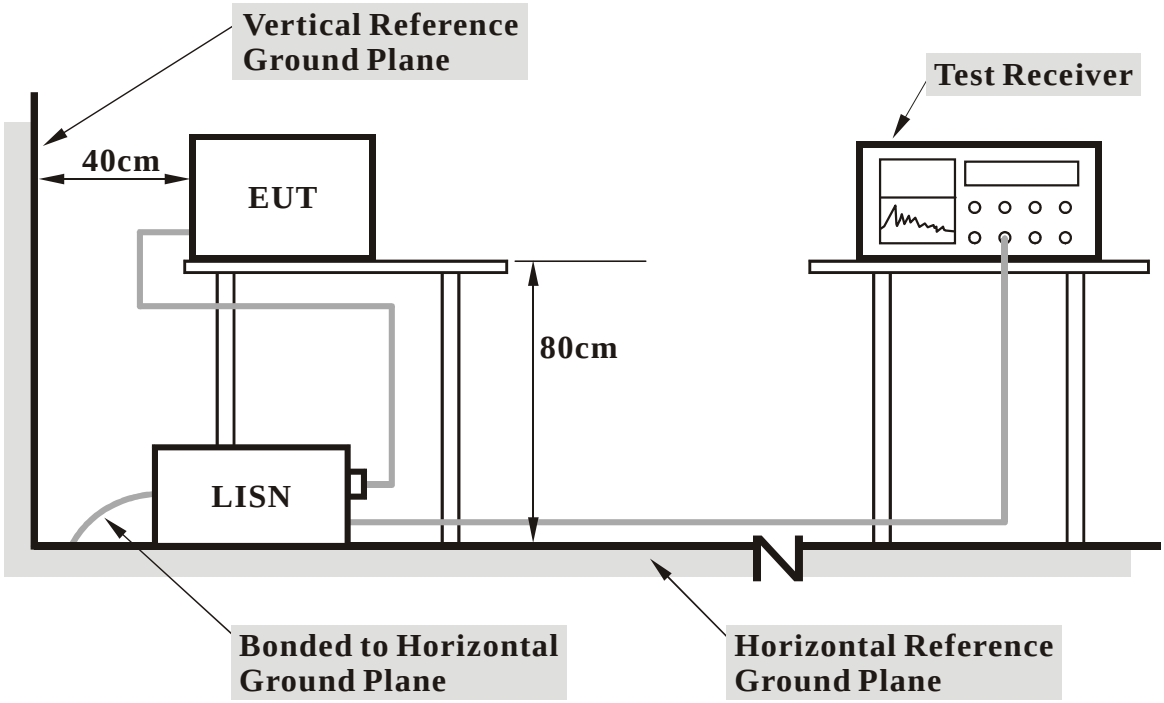
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 6, 2001
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 9, 2001
ROHDE & SCHWARZ 4-wire ISN	ENY41	835154/007	Apr. 26, 2001
EMCO-L.I.S.N.	3825/2	9204-1964	July 9, 2001
Shielded Room	Site 2	ADT-C02	NA

The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

6.1.2 Test Procedures

1. Place the EUT at 0.4 meter away from the conduction wall of the shielded room.
2. Connect the EUT to the power mains through a Line Impedance Stabilization Network (LISN).
3. Connect the other support units to the other LISN too.
4. Make sure the 50Ω/ 50μH coupling impedance is provided to the measurement instrument by the LISNs.
5. Measure the maximum conducted interference on both lines of the power mains connected to the EUT, within frequency range 450KHz ~ 30MHz.
6. The emission level under limit by 10dB is not needed to be reported.

6.1.3 Test Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

6.1.4 Photograph of Test Setup

6.1.5 EUT Operating Condition

The software provided by client enabled the EUT to continuously transmit and receive data at lowest, middle and highest channel frequencies individually. “H” patterns were sent to support units and displayed on the screen of support unit for maintaining the operating condition.

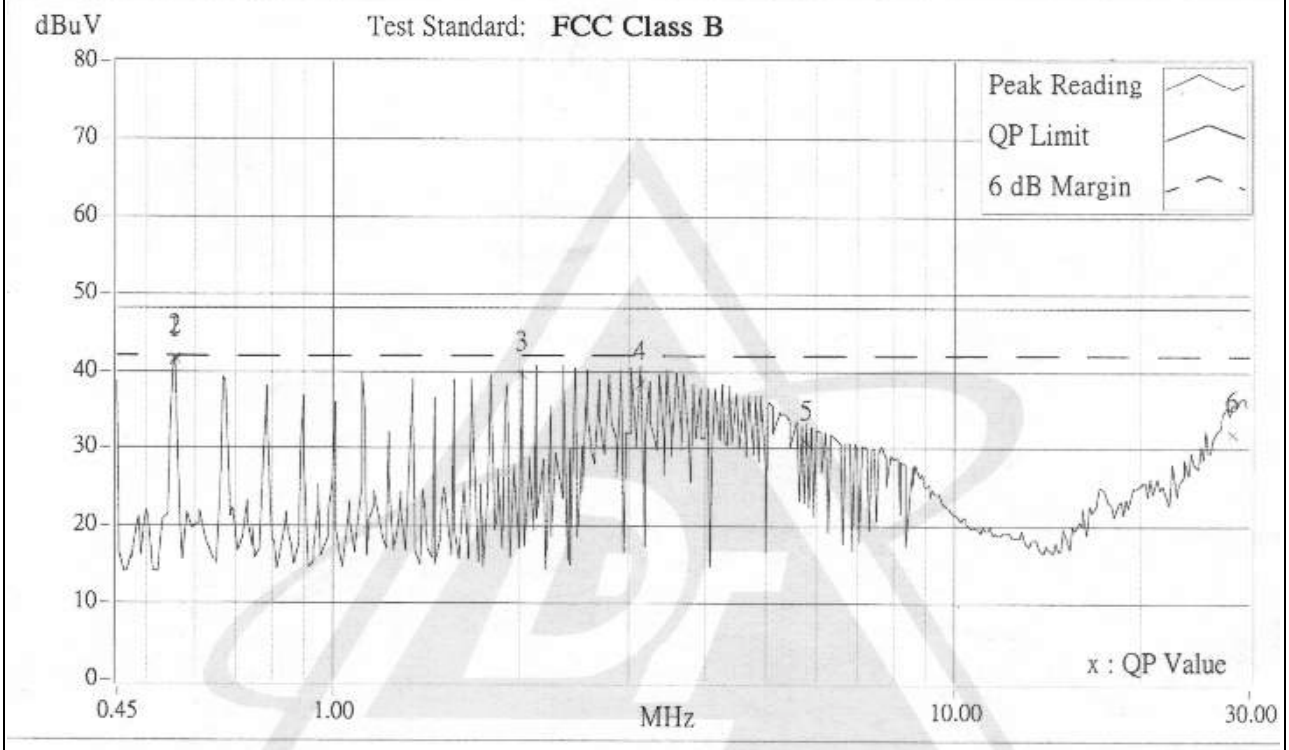
6.1.6 Climate Condition

The temperature and related humidity is 21℃ and 70%.

6.1.7 Test Results

Brand / Model : TWL-C11
Remark : CH 1
Tested by : STEVEN

Location: Conduction 2 Date: 2000/12/14 Time: PM 06:26:06 Phase: L1
Temperatuer (C): 21 Humidity (%): 70 Approved by:

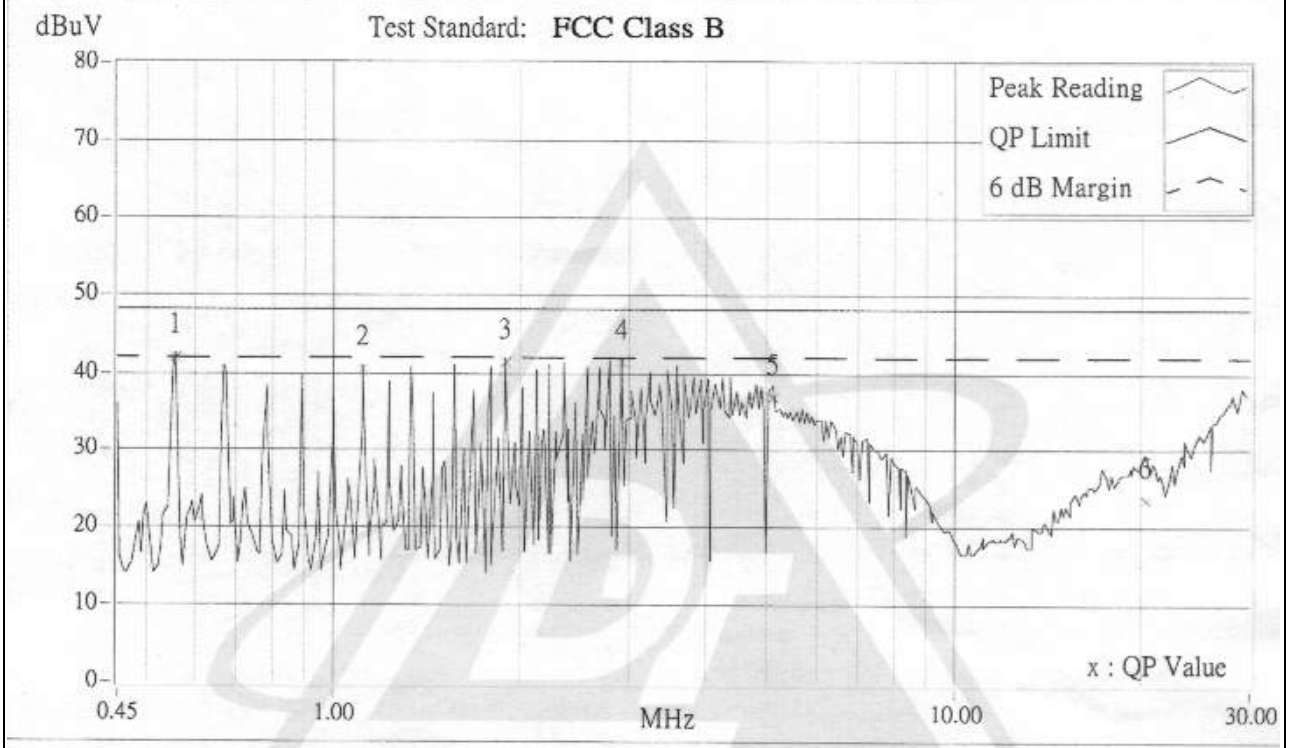


	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB
No.	MHz	dB	QP	QP	QP	QP
1	0.55712	0.20	41.20	41.40	48.00	-6.60
+2	0.55891	0.20	41.72	41.92	48.00	-6.08
3	2.01004	0.20	39.61	39.81	48.00	-8.19
4	3.12613	0.31	38.30	38.61	48.00	-9.39
5	5.80745	0.49	30.78	31.27	48.00	-16.73
6	28.26617	1.53	32.00	33.53	48.00	-14.47

Remarks: **1. "*": Undetectable**
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.

Brand / Model : TWL-C11
Remark : CH 1
Tested by : STEVEN

Location: Conduction 2 Date: 2000/12/14 Time: PM 06:22:02 Phase: N
Temperatuer (C): 21 Humidity (%): 70 Approved by:

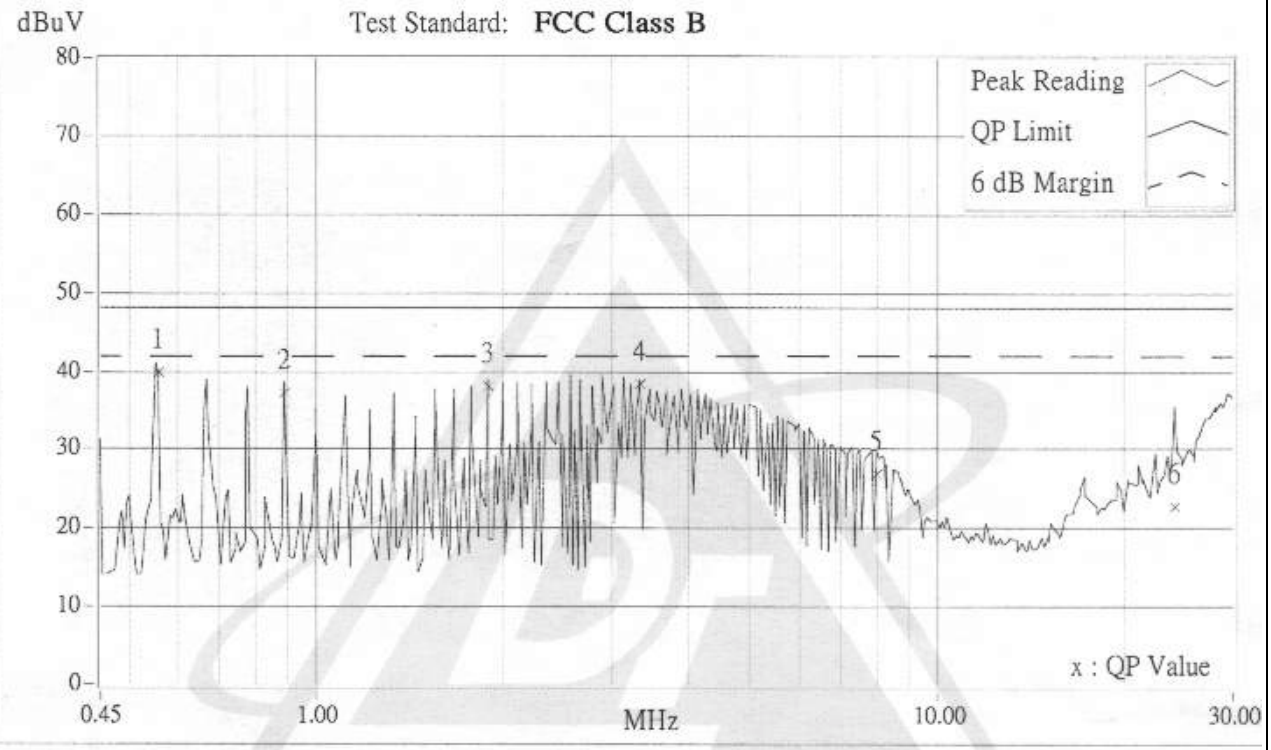


	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB
No.	MHz	dB	QP	QP	QP	QP
+1X	0.55912	0.20	41.82	42.02	48.00	-5.98
2X	1.11477	0.20	40.59	40.79	48.00	-7.21
3X	1.89858	0.20	41.44	41.64	48.00	-6.36
4X	2.90211	0.29	41.41	41.70	48.00	-6.30
5X	5.13632	0.44	36.82	37.26	48.00	-10.74
6X	20.42116	1.03	23.61	24.64	48.00	-23.36

Remarks: **1. "*": Undetectable**
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.

Brand / Model : TWL-C11
Remark : CH 6
Tested by : STEVEN

Location: Conduction 2 Date: 2000/12/14 Time: PM 06:12:02 Phase: L1
Temperatuer (C): 21 Humidity (%): 70 Approved by:

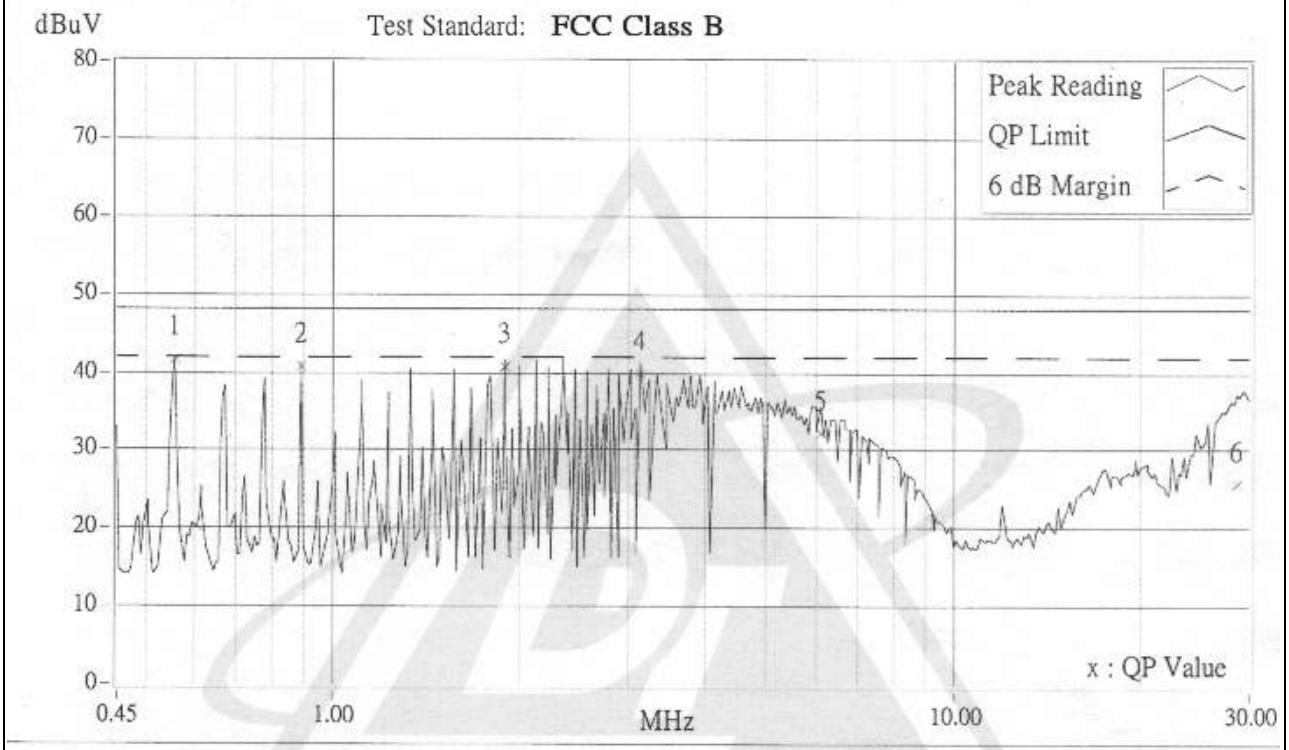


	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB
No.	MHz	dB	QP	QP	QP	QP
+1X	0.55776	0.20	39.95	40.15	48.00	-7.85
2X	0.89277	0.20	37.27	37.47	48.00	-10.53
3X	1.89402	0.20	38.21	38.41	48.00	-9.59
4X	3.33961	0.33	38.25	38.58	48.00	-9.42
5X	8.00982	0.60	26.95	27.55	48.00	-20.45
6X	24.22650	1.35	22.64	23.99	48.00	-24.01

Remarks: **1. "*": Undetectable**
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.

Brand / Model : TWL-C11
Remark : CH 6
Tested by : STEVEN

Location: Conduction 2 Date: 2000/12/14 Time: PM 06:17:08 Phase: N
Temperatuer (C): 21 Humidity (%): 70 Approved by:



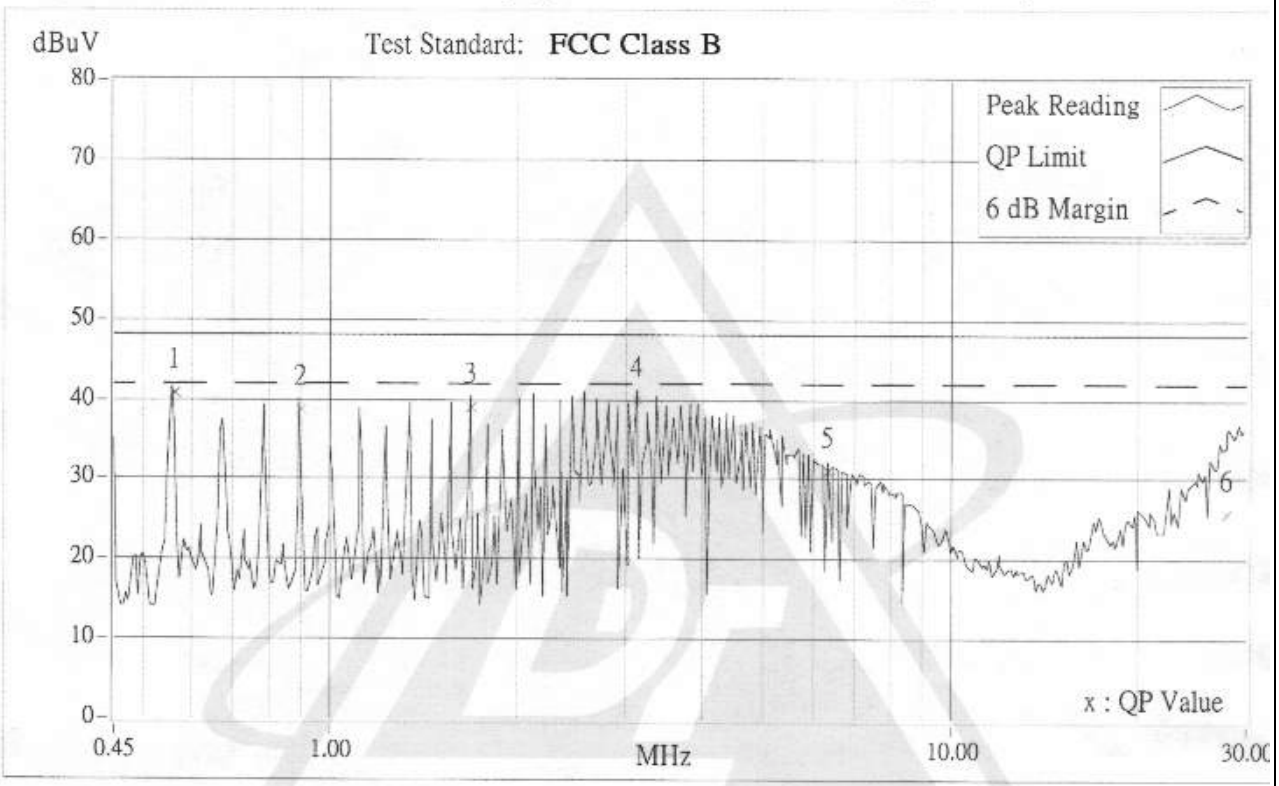
	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB
No.	MHz	dB	QP	QP	QP	QP
+1X	0.55642	0.20	41.64	41.84	48.00	-6.16
2X	0.89278	0.20	40.72	40.92	48.00	-7.08
3X	1.89625	0.20	40.76	40.96	48.00	-7.04
4X	3.12328	0.31	39.84	40.15	48.00	-7.85
5X	6.12754	0.47	32.08	32.55	48.00	-15.45
6X	28.74161	1.37	25.77	27.14	48.00	-20.86

Remarks:
1. "*": Undetectable
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.

Brand / Model : TWL-C11
Remark : CH 11
Tested by : STEVEN

Location: Conduction 2 Date: 2000/12/14 Time: PM 06:29:02 Phase: L1

Temperatuer (C): 21 Humidity (%): 70 Approved by:

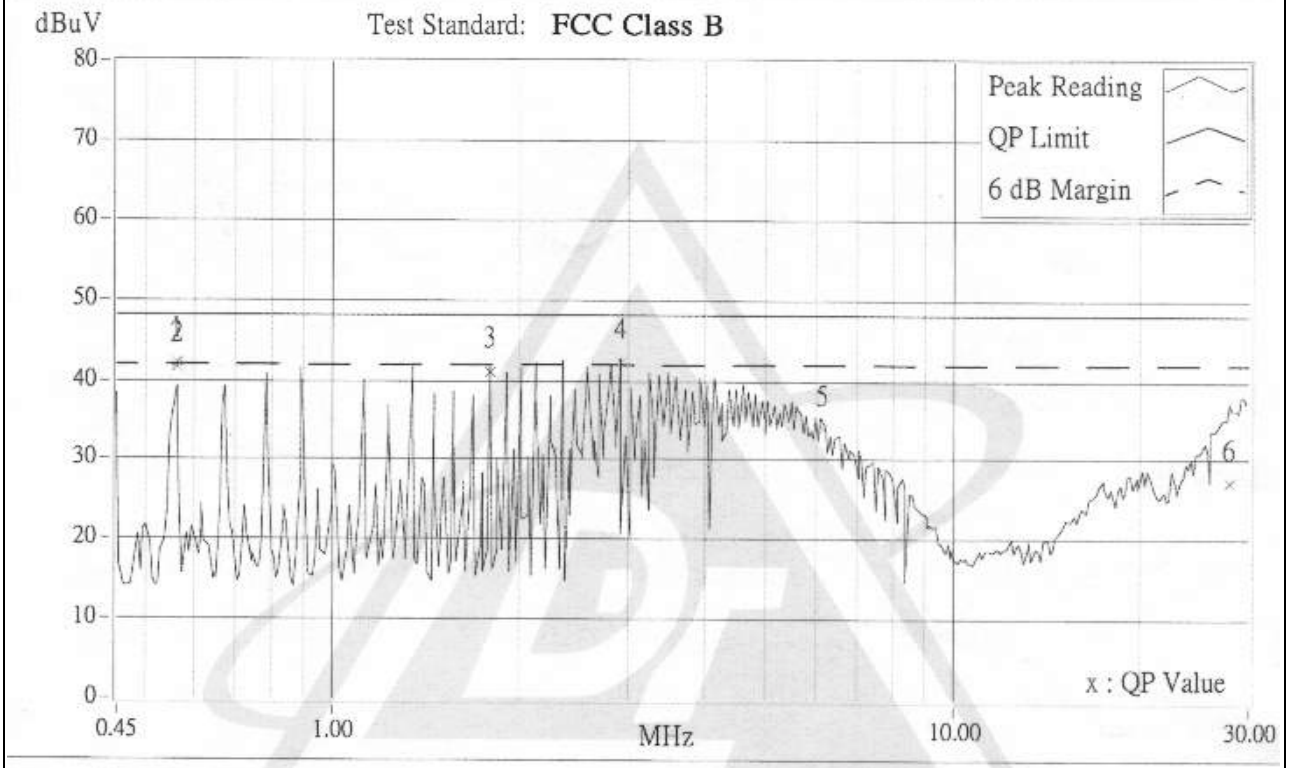


	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB
No.	MHz	dB	QP	QP	QP	QP
+1X	0.56160	0.20	40.72	40.92	48.00	-7.08
2X	0.89736	0.20	38.67	38.87	48.00	-9.13
3X	1.67945	0.20	38.87	39.07	48.00	-8.93
4X	3.13475	0.31	39.82	40.13	48.00	-7.87
5X	6.37528	0.52	30.86	31.38	48.00	-16.62
6X	27.94781	1.52	25.55	27.07	48.00	-20.93

Remarks:
1. "*": Undetectable
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.

Brand / Model : TWL-C11
Remark : CH 11
Tested by : STEVEN

Location: Conduction 2 Date: 2000/12/14 Time: PM 06:32:20 Phase: N
Temperatuer (C): 21 Humidity (%): 70 Approved by:



	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB
No.	MHz	dB	QP	QP	QP	QP
+1X	0.56126	0.20	42.28	42.48	48.00	-5.52
2X	0.56196	0.20	41.74	41.94	48.00	-6.06
3X	1.79285	0.20	40.94	41.14	48.00	-6.86
4X	2.91178	0.29	42.15	42.44	48.00	-5.56
5X	6.15704	0.47	33.86	34.33	48.00	-13.67
6X	27.97100	1.36	27.09	28.45	48.00	-19.55

Remarks: **1. "*": Undetectable**
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.

6.2 Radiated Emission Measurement

6.2.1 Test instruments

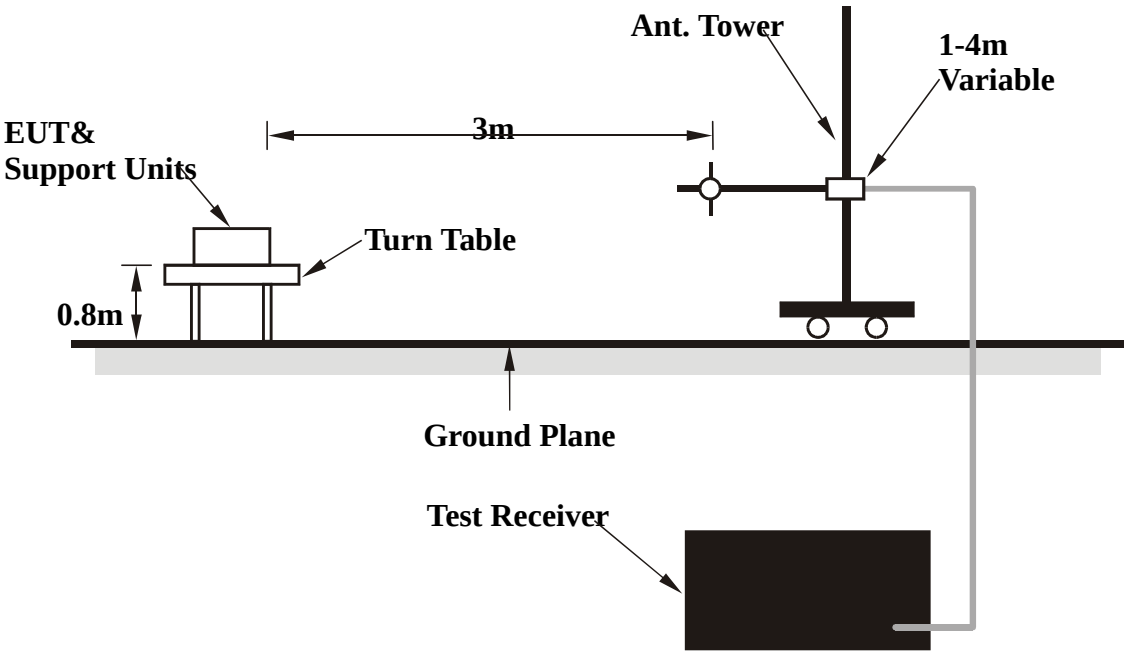
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	**8590L**	**3544A01176**	**Apr. 18, 2001**
HP Preamplifier	**8447D**	**2944A08485**	**Apr. 27, 2001**
HP Preamplifier	**8347A**	**3307A01088**	**Sep. 04, 2001**
ROHDE & SCHWARZ TEST RECEIVER	**ESMI**	**839013/007 839379/002**	**Aug. 3, 2001**
SCHWARZBECK Tunable Dipole Antenna	**VHA 9103 UHA 9105**	**E101051 E101055**	**N/A**
CHASE BILOG Antenna	**CBL6112A**	**2221**	**Aug. 4, 2001**
SCHWARZBECK Horn Antenna	**BBHA9120-D**	**D130**	**Jul. 9, 2001**
SCHWARZBECK Horn Antenna	**BBHA9170**	**123**	**Jan. 30, 2001**
EMCO Turn Table	**1060**	**1115**	**N/A**
SHOSHIN Tower	**AP-4701**	**A6Y005**	**N/A**
Open Field Test Site	**Site 5**	**ADT-R05**	**Aug. 08, 2001**

The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMAS document NIS81.

6.2.2 Test Procedures

a. The EUT was placed on the turn table 0.8 meter above ground in 3 meter open area test site.
b. Set the resolution bandwidth to 120KHz in the test receiver and select Peak function to scan the frequency below 1 GHz.
c. Shift the interference-receiving antenna located in antenna tower upwards and downwards between 1 and 4 meters above ground and find out the local peak emission on frequency domain.
d. Locate the interference-receiving antenna at the position where the local peak reach the maximum emission.
e. Rotate the turn table and stop at the angle where the measurement device has maximum reading
f. Shift the interference-receiving antenna again to detect the maximum emission of the local peak
g. If the reading of the local peak under Peak function is lower than limit by 6dB, then Quasi Peak detection is not needed and this reading should be recorded. And if it is higher than Peak limit, then the test is fail. Others, switch the receiver to Quasi Peak function, set the resolution bandwidth to 100kHz and repeat the procedures C ~ F. If the reading is lower than limit, this reading should be recorded, otherwise, the test is fail.
h. Set the resolution and video bandwidth of the spectrum analyzer to 1MHz and repeat procedures C ~ F for frequency band from 1 GHz to 10 times carrier frequency.
i. If the reading for the local peak is lower than the Average limit, no further testing is needed in this local peak and this reading should be recorded. If it is higher than Average limit but lower than Peak limit, then set the resolution bandwidth to 1MHz and video bandwidth to 300Hz. Repeat procedures C ~ F. If the maximum reading is lower than Average limit, then this reading should be recorded. If it is higher, then the test is fail.

6.2.3 Test Setup



6.2.4 Photograph of Test Setup

6.2.5 EUT Operating Condition

1. Place the EUT on the turn table.
2. Connect antenna with antenna port if needed.
3. Power on.
4. Prepare the same setup as above, but place it outside testing area.
5. Send data to EUT (on the turn table) by command "PIN".
6. The linkage of these two PC have been established when the address of the other PC is shown on the monitor.
7. Rotate the turn table and scan the antenna mast to detect the maximum emission.

6.2.6 Climate Condition

The temperature and related humidity is 20℃ and 70%.

6.2.7 Test Results

6.2.7.1 Digital Portion

Channel:1 ANTENNA POLARITY: Vertical		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Frequency Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
132.57	13.51	12.99	26.5	43.5	-17.0	99	22
659.98	5.39	26.91	32.3	46.0	-13.7	118	18
748.52	3.98	30.42	34.4	46.0	-11.6	107	193
880.02	2.83	27.77	30.6	46.0	-15.4	169	30
924.00	2.02	26.98	29.0	46.0	-17.0	165	71
968.00	1.46	29.94	31.4	46.0	-22.6	186	345

Channel:1 ANTENNA POLARITY: Horizontal		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Frequency Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
440.15	7.80	25.00	32.8	46.0	-13.2	113	8
660.01	2.39	27.51	29.9	46.0	-16.1	100	299
748.51	3.98	28.82	32.8	46.0	-13.2	106	178
836.00	3.33	30.87	34.2	46.0	-11.8	112	28
880.00	2.83	31.87	34.7	46.0	-11.3	108	329
924.01	2.02	29.28	31.3	46.0	-14.7	113	9

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247

6.2.7.2 RF Portion

Channel 1 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2037.9	36.06	13.24	1.24	49.3	37.3	74.0	54.0	-24.7	-16.7	114	38
*2413.0	36.13	59.07	51.27	95.2	87.4	-	-	-	-	107	110
4075.9	36.34	17.86	6.96	54.2	43.3	74.0	54.0	-19.8	-10.7	108	193
4823.9	36.34	17.06	7.36	53.4	43.7	74.0	54.0	-20.6	-10.3	111	298

Channel 1 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2037.5	36.07	13.43	-	49.5	-	74.0	54.0	-24.5	-	106	135
*2413.1	36.12	61.38	53.18	97.5	89.3	-	-	-	-	107	171
4076.2	36.34	18.66	7.46	55.0	43.8	74.0	54.0	-19.0	-10.2	107	292
4824.9	36.34	18.46	7.06	54.8	43.4	74.0	54.0	-19.2	-10.6	107	95

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).

2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level - Limit value

5. The limit value is defined as per 15.247

6. " * " : Fundamental Frequency

Channel 6 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2063.2	34.95	12.15	4.35	47.1	39.3	74.0	54.0	-26.9	-14.7	115	131
*2437.5	35.15	61.35	53.85	96.5	89.0	-	-	-	-	108	110
4126.2	35.15	17.75	8.05	52.9	43.2	74.0	54.0	-21.1	-10.8	112	94
4874.2	35.15	17.55	8.35	52.7	43.5	74.0	54.0	-21.3	-10.5	111	342

Channel 6 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2062.7	37.17	11.83	-	49.0	-	74.0	54.0	-25.0	-	127	172
*2438.1	37.17	61.03	52.33	98.2	89.5	-	-	-	-	131	177
4126.0	42.75	9.45	-	52.2	40.0	74.0	54.0	-21.8	-14.0	120	134
4874.0	43.67	8.53	-	52.2	40.5	74.0	54.0	-21.8	-13.5	126	329

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).

2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level - Limit value

5. The limit value is defined as per 15.247

6. " * " : Fundamental Frequency

Channel 11 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2088.2	37.17	12.03	2.93	49.2	40.1	74.0	54.0	-24.8	-13.9	114	281
*2461.9	37.17	59.53	47.83	96.7	85.0	-	-	-	-	128	213
4175.2	42.73	11.87	-	54.6	42.4	74.0	54.0	-19.4	-11.6	124	184
4923.8	43.39	11.21	-	54.6	43.2	74.0	54.0	-19.4	-10.8	115	245

Channel 11 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2087.9	35.05	13.55	3.05	48.6	38.1	74.0	54.0	-25.4	-15.9	107	26
*2463.4	35.15	62.85	55.05	98.0	90.2	-	-	-	-	128	167
4176.0	35.15	18.65	7.25	53.8	42.4	74.0	54.0	-20.2	-11.6	99	136
4924.0	35.15	19.45	7.65	54.6	42.8	74.0	54.0	-19.4	-11.2	99	257

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).

2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level - Limit value

5. The limit value is defined as per 15.247

6. " * " : Fundamental Frequency