

## 4.7 RADIATED EMISSION MEASUREMENT

### 4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

## 4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jun, 08, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-153	Feb. 03, 2005
HORN Antenna SCHWARZBECK	9120D	9120D-408	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170243	Feb. 23, 2005
Preamplifier Agilent	8447D	2944A10633	Jan. 15, 2005
Preamplifier Agilent	8449B	3008A01964	Jan. 27, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218183/4	Mar. 05, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218195/4	Mar. 05, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in HwaYa Chamber 2.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC Site Registration No. is IC4924-3.

#### 4.7.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

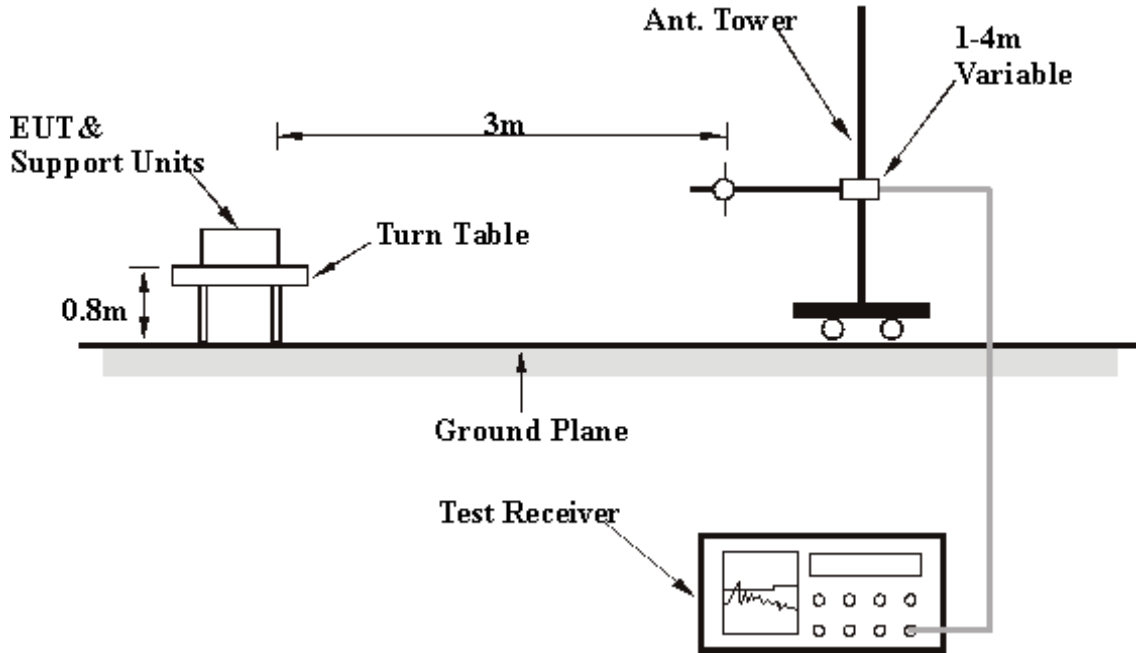
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.7.4 DEVIATION FROM TEST STANDARD

No deviation

4.7.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 4.7.6 TEST RESULTS

<b>EUT</b>	Bluetooth Print Combo Adapter	<b>MODEL</b>	BT-0260
<b>CHANNEL</b>	78	<b>FREQUENCY RANGE</b>	Below 1GHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>TEST MODE</b>	A
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 991hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY:</b> Long Chen			

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	142.75	36.66 QP	43.50	-6.84	2.00 H	328	22.46	14.20
2	228.28	39.16 QP	46.00	-6.84	1.50 H	334	26.67	12.49
3	239.94	36.75 QP	46.00	-9.25	1.00 H	337	23.50	13.25
4	323.53	38.04 QP	46.00	-7.96	1.00 H	178	22.73	15.30
5	372.05	39.23 QP	46.00	-6.77	1.00 H	268	22.89	16.35
6	467.37	36.56 QP	46.00	-9.44	2.00 H	289	18.25	18.32

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	96.09	36.28 QP	43.50	-7.22	1.25 V	301	25.38	10.90
2	239.94	37.78 QP	46.00	-8.22	1.00 V	19	24.53	13.25
3	323.53	34.85 QP	46.00	-11.15	1.00 V	1	19.54	15.30
4	335.19	37.61 QP	46.00	-8.39	1.00 V	10	22.06	15.55
5	372.12	37.76 QP	46.00	-8.24	1.25 V	352	21.41	16.35
6	467.37	35.64 QP	46.00	-10.36	1.00 V	22	17.32	18.32

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



<b>EUT</b>	Bluetooth Print Combo Adapter	<b>MODEL</b>	BT-0260
<b>CHANNEL</b>	78	<b>FREQUENCY RANGE</b>	Below 1GHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>TEST MODE</b>	B
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60 % RH, 991hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY:</b> Long Chen			

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	70.82	24.33 QP	40.00	-15.67	1.75 H	211	11.97	12.37
2	96.09	34.03 QP	43.50	-9.47	1.75 H	214	23.35	10.68
3	119.42	33.27 QP	43.50	-10.23	1.25 H	241	20.30	12.97
4	142.75	33.73 QP	43.50	-9.77	1.00 H	172	19.24	14.48
5	191.34	33.87 QP	43.50	-9.63	1.50 H	151	21.80	12.07
6	214.67	39.34 QP	43.50	-4.16	1.50 H	58	27.63	11.72
7	228.28	38.16 QP	46.00	-7.84	1.50 H	55	25.81	12.35
8	239.94	43.01 QP	46.00	-2.99	1.25 H	34	29.94	13.07
9	263.27	37.91 QP	46.00	-8.09	1.00 H	55	24.41	13.50
10	274.93	34.66 QP	46.00	-11.34	1.25 H	184	20.69	13.98
11	288.54	35.19 QP	46.00	-10.81	1.75 H	190	20.86	14.32
12	311.86	32.81 QP	46.00	-13.19	1.00 H	187	18.04	14.77
13	432.38	28.93 QP	46.00	-17.07	1.75 H	208	11.32	17.60
14	550.96	31.17 QP	46.00	-14.83	1.75 H	325	11.45	19.72
15	597.62	32.03 QP	46.00	-13.97	1.00 H	226	11.08	20.95
16	731.74	33.25 QP	46.00	-12.75	1.00 H	286	10.17	23.08

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



<b>EUT</b>	Bluetooth Print Combo Adapter	<b>MODEL</b>	BT-0260
<b>CHANNEL</b>	78	<b>FREQUENCY RANGE</b>	Below 1GHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>TEST MODE</b>	B
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60 % RH, 991hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY:</b> Long Chen			

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	34.52 QP	40.00	-5.48	1.00 V	130	20.59	13.93
2	96.09	40.95 QP	43.50	-2.55	1.00 V	178	30.28	10.68
3	119.42	36.79 QP	43.50	-6.71	1.00 V	235	23.82	12.97
4	142.75	34.41 QP	43.50	-9.09	1.00 V	154	19.92	14.48
5	168.02	31.21 QP	43.50	-12.29	1.75 V	280	17.10	14.12
6	191.34	37.39 QP	43.50	-6.11	1.00 V	346	25.32	12.07
7	214.67	36.22 QP	43.50	-7.28	1.00 V	337	24.51	11.72
8	228.28	33.32 QP	46.00	-12.68	1.00 V	181	20.97	12.35
9	239.94	36.12 QP	46.00	-9.88	1.00 V	181	23.05	13.07
10	263.27	31.49 QP	46.00	-14.51	1.00 V	208	17.99	13.50
11	288.54	32.06 QP	46.00	-13.94	1.00 V	292	17.74	14.32
12	335.19	31.28 QP	46.00	-14.72	1.25 V	133	15.97	15.31
13	597.62	30.80 QP	46.00	-15.20	1.25 V	247	9.86	20.95
14	731.74	30.74 QP	46.00	-15.26	1.00 V	217	7.66	23.08
15	801.72	29.10 QP	46.00	-16.90	2.50 V	346	5.27	23.83
16	863.93	30.40 QP	46.00	-15.60	1.25 V	337	5.95	24.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



<b>EUT</b>	Bluetooth Print Combo Adapter	<b>MODEL</b>	BT-0260
<b>CHANNEL</b>	Channel 0	<b>FREQUENCY RANGE</b>	1 ~25GHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 71 % RH, 991hPa	<b>TESTED BY</b>	Long Chen

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1200.00	43.15 PK	74.00	-30.85	1.50 H	10	14.68	28.47
2	*2402.00	96.70 PK			1.80 H	108	65.54	31.16
2	*2402.00	66.70 AV			1.80 H	108	35.54	31.16
3	2658.00	49.28 PK	74.00	-24.72	1.80 H	112	17.10	32.18
4	4804.00	56.96 PK	74.00	-17.04	1.03 H	153	19.13	37.83
4	4804.00	52.77 AV	54.00	-1.23	1.03 H	153	14.94	37.83

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1200.00	41.18 PK	74.00	-32.82	1.27 V	322	12.71	28.47
2	*2402.00	98.16 PK			1.00 V	107	67.00	31.16
2	*2402.00	68.16 AV			1.00 V	107	37.00	31.16
3	2658.00	47.92 PK	74.00	-26.08	1.02 V	19	15.74	32.18
4	4804.00	54.79 PK	74.00	-19.21	1.29 V	117	16.96	37.83
4	4804.00	50.01 AV	54.00	-3.99	1.29 V	117	12.18	37.83

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency
  6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625\*5 per 247 ms per channel. Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30\text{dB}$
  7. Average value = peak reading  $-20\log(\text{duty cycle})$





<b>EUT</b>	Bluetooth Print Combo Adapter	<b>MODEL</b>	BT-0260
<b>CHANNEL</b>	Channel 39	<b>FREQUENCY RANGE</b>	1 ~25GHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 71 % RH, 991hPa	<b>TESTED BY</b>	Long Chen

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1220.00	43.10 PK	74.00	-30.90	1.00 H	243	14.50	28.60
2	*2441.00	99.48 PK			1.18 H	101	68.12	31.36
2	*2441.00	69.47 AV			1.18 H	101	38.12	31.36
3	2665.00	47.36 PK	74.00	-26.64	1.36 H	108	15.15	32.21
4	4882.00	56.54 PK	74.00	-17.46	1.13 H	171	18.53	38.01
<b>4</b>	<b>4882.00</b>	<b>52.81 AV</b>	<b>54.00</b>	<b>-1.19</b>	<b>1.13 H</b>	<b>171</b>	<b>14.80</b>	<b>38.01</b>

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1220.00	40.58 PK	74.00	-33.42	1.25 V	339	11.98	28.60
2	*2441.00	97.73 PK			1.50 V	0	66.37	31.36
2	*2441.00	67.72 AV			1.50 V	0	36.37	31.36
3	2665.00	45.21 PK	74.00	-28.79	1.00 V	218	13.00	32.21
4	4882.00	53.46 PK	74.00	-20.54	1.39 V	352	15.45	38.01
4	4882.00	47.27 AV	54.00	-6.73	1.39 V	352	9.26	38.01

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency
  6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625\*5 per 247 ms per channel. Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30\text{dB}$
  7. Average value = peak reading  $-20\log(\text{duty cycle})$



<b>EUT</b>	Bluetooth Print Combo Adapter	<b>MODEL</b>	BT-0260
<b>CHANNEL</b>	Channel 78	<b>FREQUENCY RANGE</b>	1 ~25GHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 71 % RH, 991hPa	<b>TESTED BY</b>	Long Chen

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1239.00	48.78 PK	74.00	-25.22	1.12 H	350	20.06	28.72
2	*2480.00	102.98 PK			1.54 H	181	71.43	31.55
2	*2480.00	72.98 AV			1.54 H	181	41.43	31.55
3	2672.00	45.39 PK	74.00	-28.61	1.05 H	233	13.16	32.23
4	4960.00	57.33 PK	74.00	-16.67	1.03 H	131	19.13	38.20
4	4960.00	52.73 AV	54.00	-1.27	1.03 H	131	14.53	38.20

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1239.00	40.89 PK	74.00	-33.11	1.00 V	258	12.17	28.72
2	*2480.00	100.41 PK			1.76 V	62	68.86	31.55
2	*2480.00	70.41 AV			1.76 V	62	38.86	31.55
3	2672.00	40.38 PK	74.00	-33.62	1.63 V	208	8.15	32.23
4	4960.00	54.05 PK	74.00	-19.95	1.11 V	227	15.85	38.20
4	4960.00	47.75 AV	54.00	-6.25	1.11 V	227	9.55	38.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency
  6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625\*5 per 247 ms per channel. Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30\text{dB}$
  7. Average value = peak reading  $-20\log(\text{duty cycle})$



## 4.8 BAND EDGES MEASUREMENT

### 4.8.1 LIMITS OF BAND EDGES MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100KHz RB).

### 4.8.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

#### NOTES:

The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

### 4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 4.8.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.8.5 EUT OPERATING CONDITION

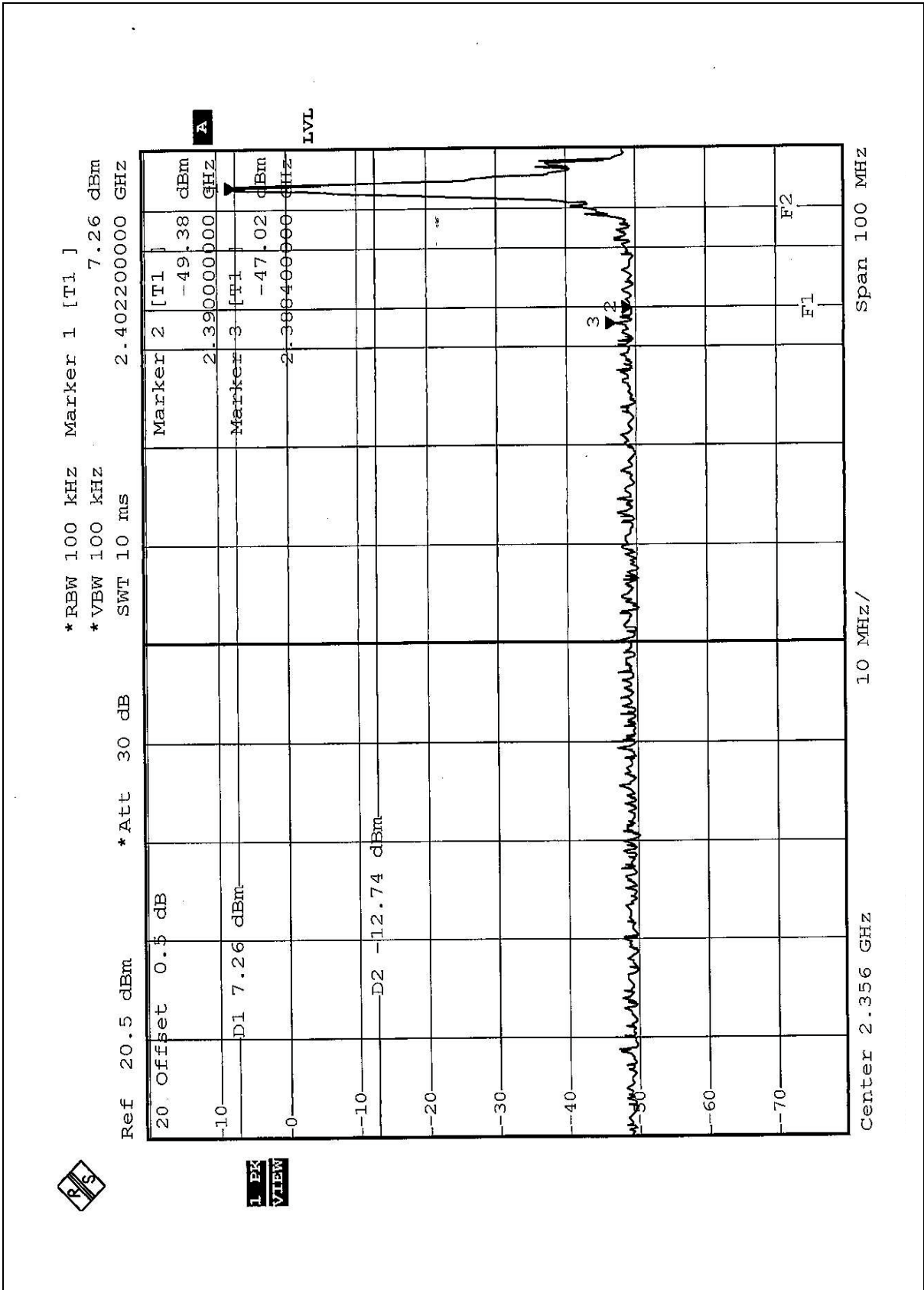
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

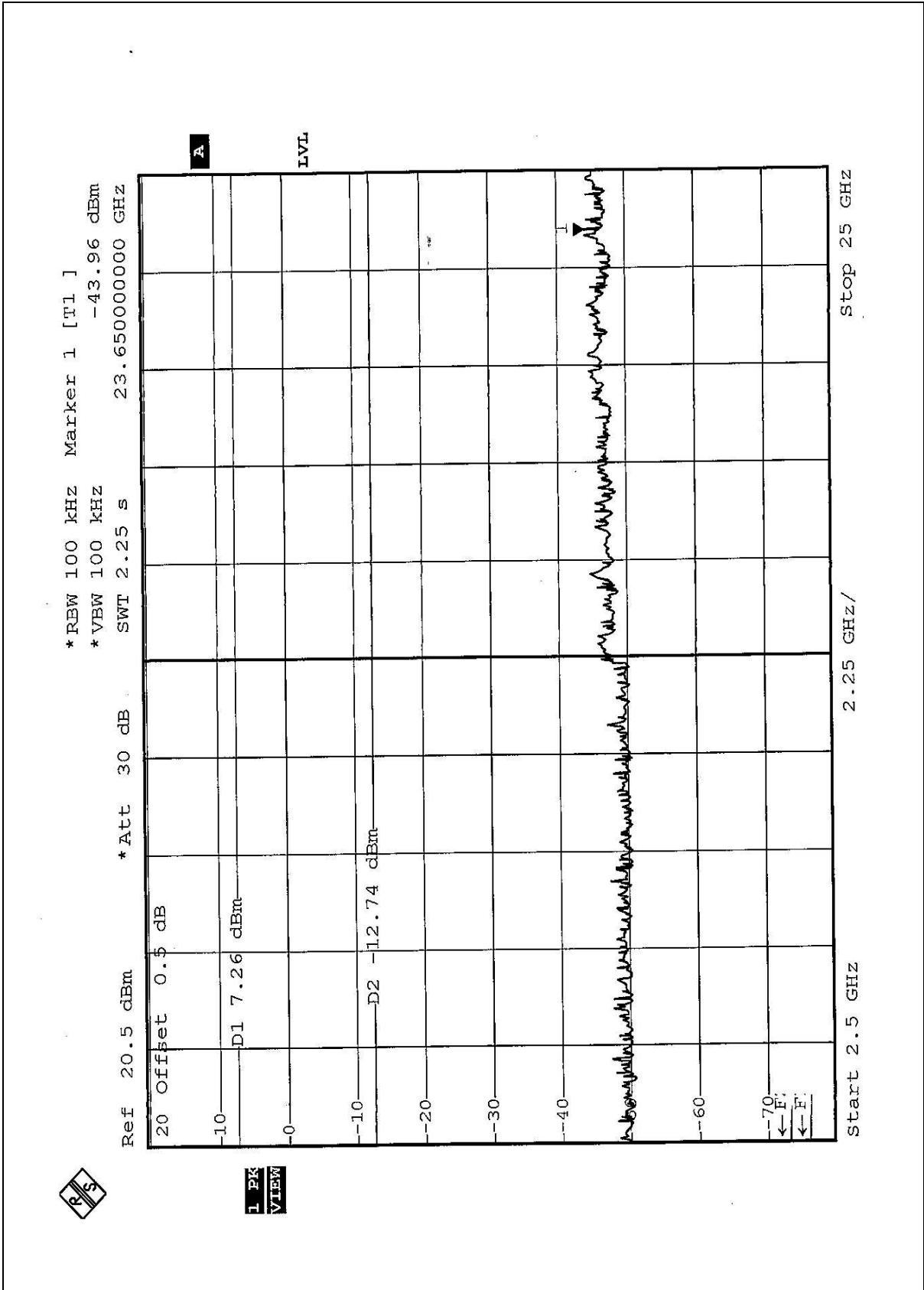
#### 4.8.6 TEST RESULTS

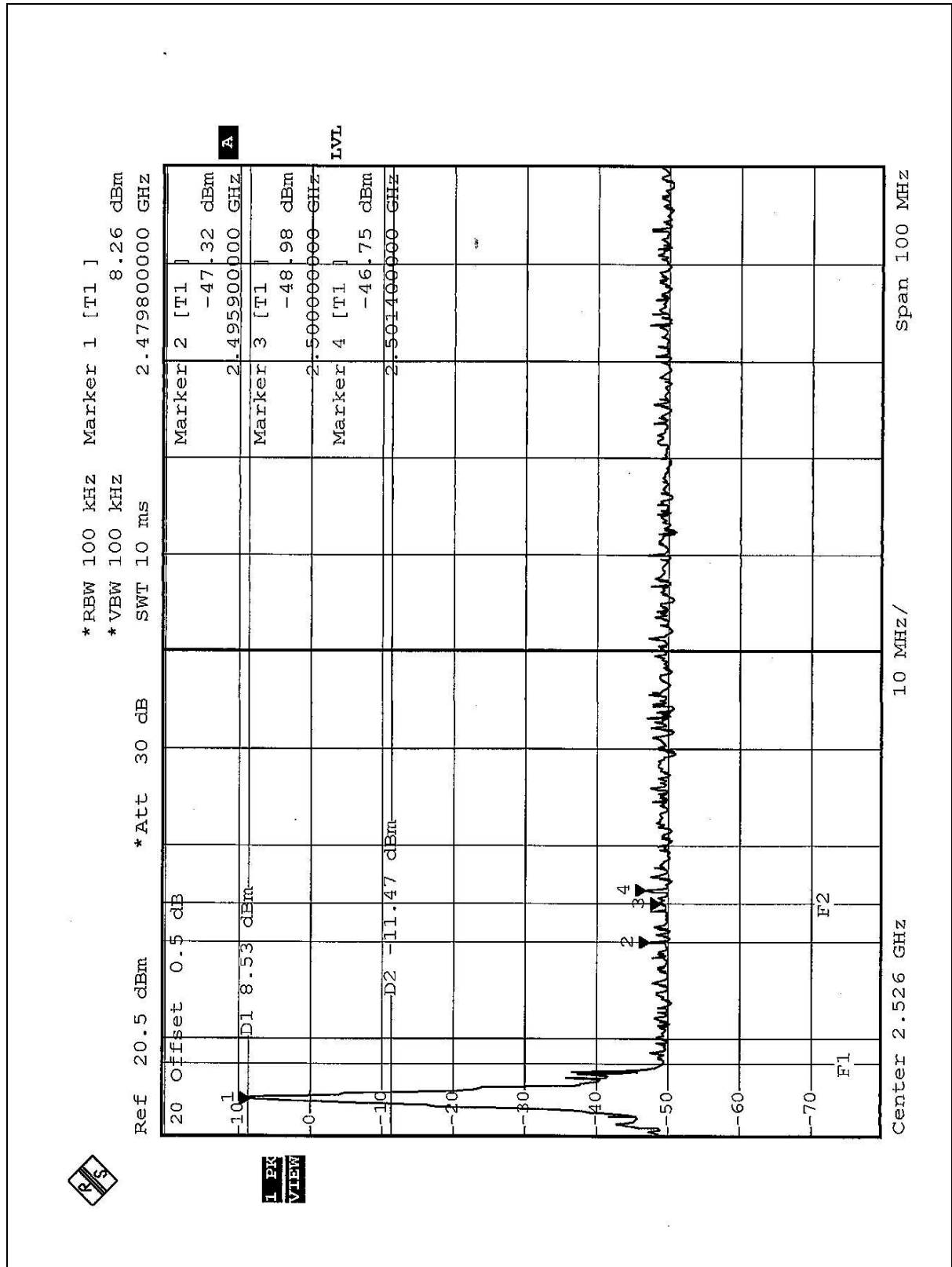
The spectrum plots are attached on the following 4 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

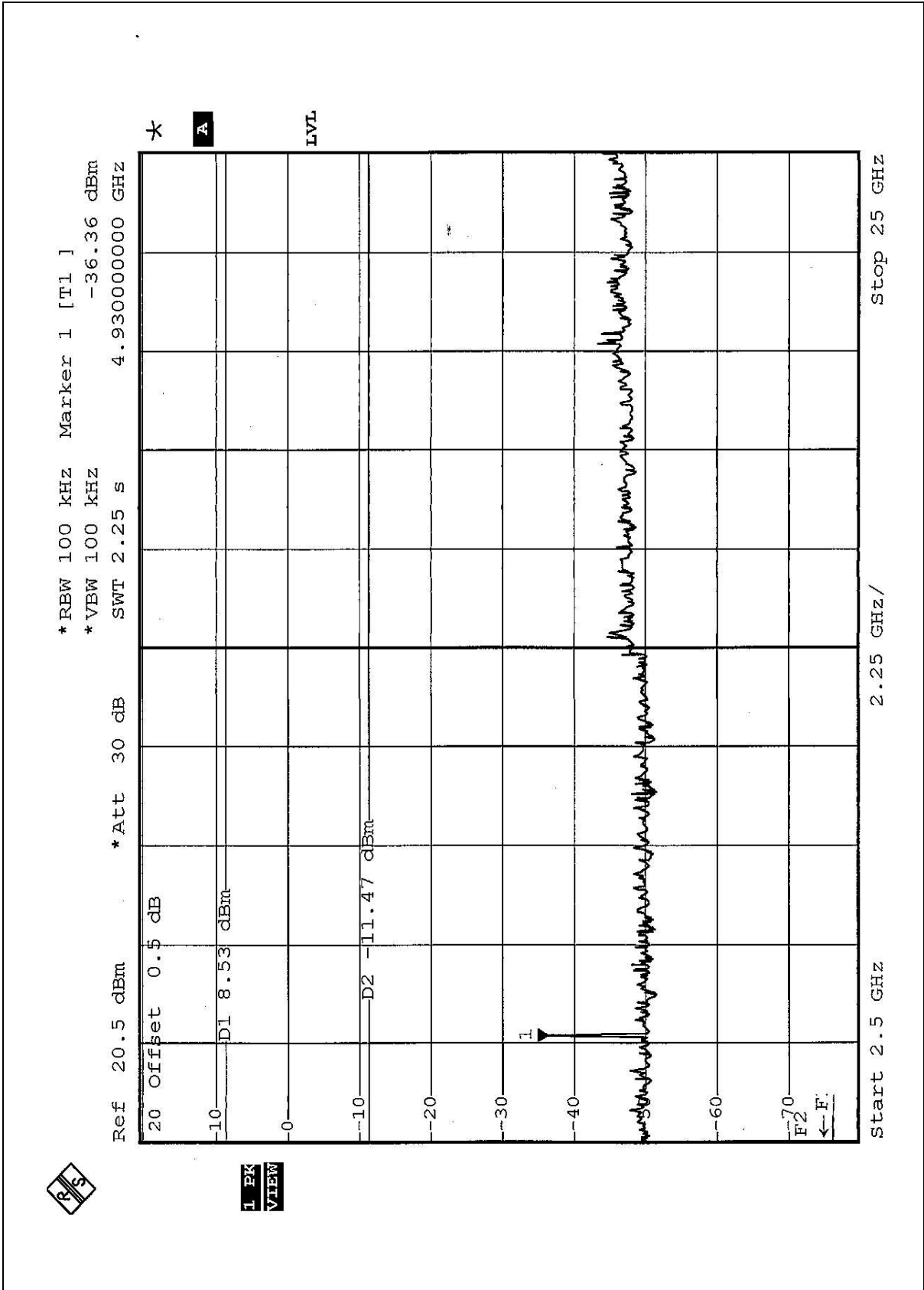
**NOTE1:** The band edge emission plot on the following 1 ~ 2 page shows 54.28dB delta between carrier maximum power and local maximum emission in restrict band (2.3884GHz). The emission of carrier strength list in the test result of channel 0 at the item 4.7.9 is 68.16dBuV/m, so the maximum field strength in restrict band is  $68.16 - 54.28 = 13.88$  dBuV/m which is under 54 dBuV/m limit.

**NOTE2:** The band edge emission plot on the following 3 ~ 4 page shows 55.01dB delta between carrier maximum power and local maximum emission in restrict band (2.4959GHz). The emission of carrier strength list in the test result of channel 78 at the item 4.7.9 is 72.98dBuV/m, so the maximum field strength in restrict band is  $72.98 - 55.01 = 17.97$  dBuV/m which is under 54 dBuV/m limit.













## **4.9 ANTENNA REQUIREMENT**

### **4.9.1 STANDARD APPLICABLE**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **4.9.2 ANTENNA CONNECTED CONSTRUCTION**

The antenna used in this product is Internal PCB Antenna without antenna connector. The maximum Gain of this antenna is only 2.0dBi.

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

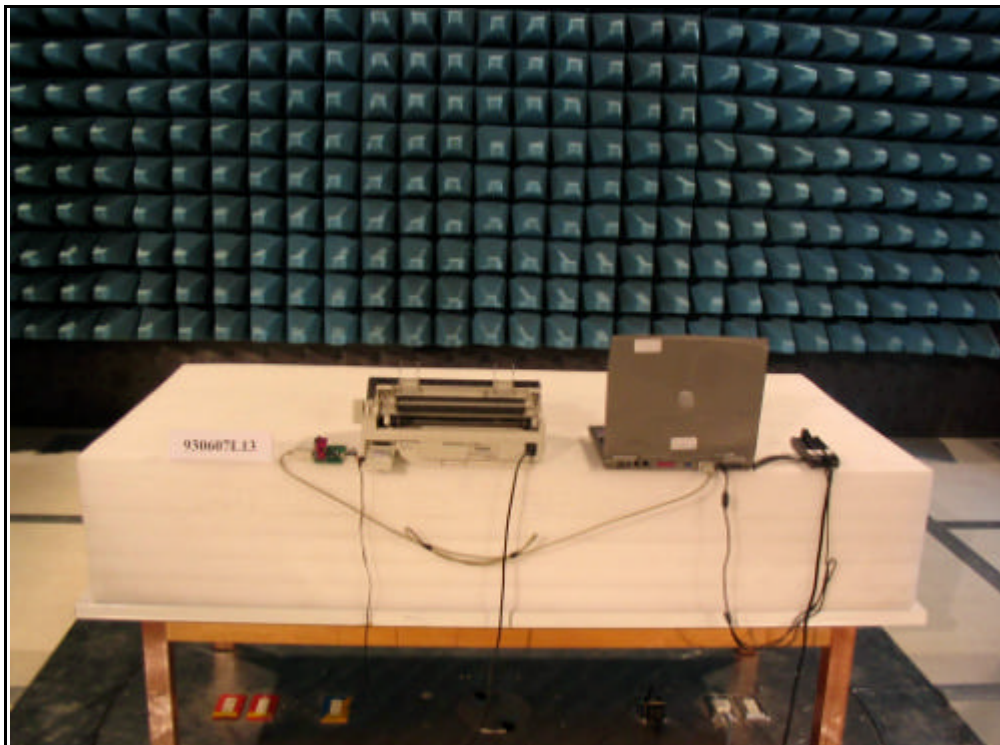
### CONDUCTED EMISSION TEST Test Mode A



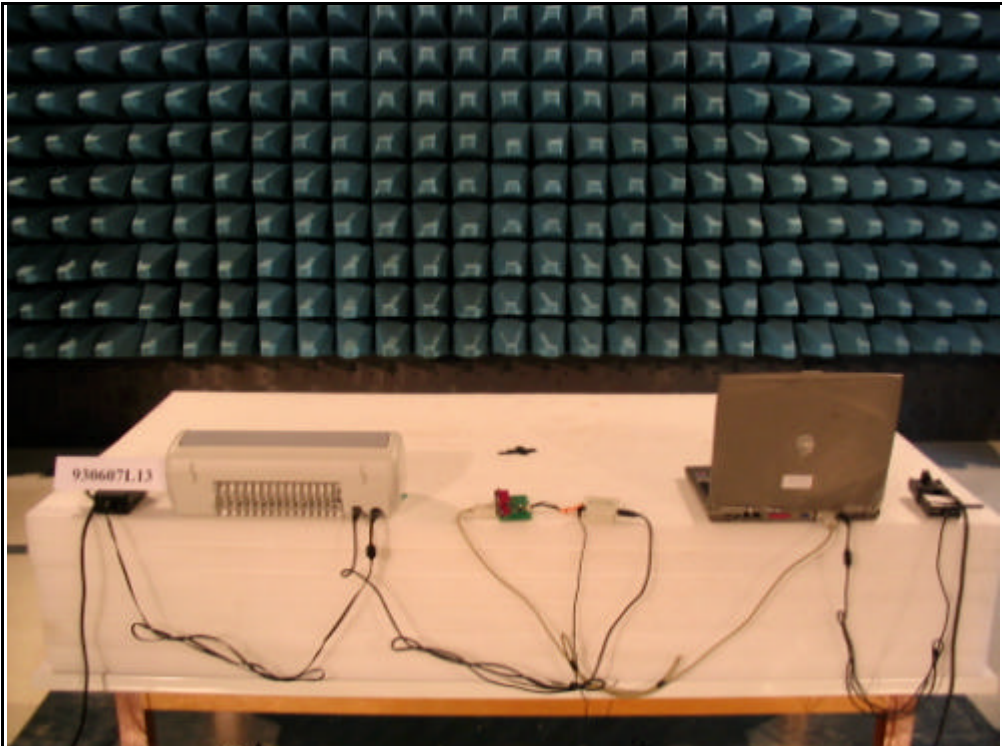
Test Mode B



### RADIATED EMISSION TEST Test Mode A



Test Mode B





## 6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

<b>USA</b>	FCC, NVLAP, UL
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA , CSA
<b>R.O.C.</b>	CNLA, BSMI, DGT
<b>Netherlands</b>	Telefication
<b>Singapore</b>	PSB , GOST-ASIA(MOU)
<b>Russia</b>	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).

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The address and road map of all our labs can be found in our web site also.

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