



FCC TEST REPORT (PART 27)

REPORT NO.: RF960206H05

MODEL NO.: 125PCB120P010
(Refer to item 3.1 for the more details)

RECEIVED: Feb. 06, 2007

TESTED: Mar. 13 ~ Apr. 02, 2007

ISSUED: Apr. 10, 2007

APPLICANT: Accton Technology Corporation

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1 CERTIFICATION

PRODUCT: 2.5GHz WiMAX PC Card

MODEL: 125PCB120P010 (Refer to item 3.1 for the more details)

BRAND: Intel

APPLICANT: Accton Technology Corporation

TESTED: Mar. 13 ~ Apr. 02, 2007

TEST SAMPLE: R&D SAMPLE

TEST STANDARDS: FCC Part 27, Subpart C & M
ANSI C63.4-2003

The above equipment (Model no.: 125PCB120P005, 125PCB120P010) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Rennie Wang , **DATE:** Apr. 10, 2007
Rennie Wang

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** Apr. 10, 2007
Responsible for RF Long Chen

APPROVED BY : Gary Chang , **DATE:** Apr. 10, 2007
Gary Chang / Supervisor

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(h)(2)	Maximum Peak Output Power Limit: max. 2 watts e.i.r.p peak power	PASS	Meet the requirement of limit. Minimum passing margin is 25.00dBm at 2508.50MHz.
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	PASS	Meet the requirement of limit.
2.1049 27.53(l)(6)	Emission Bandwidth	PASS	Meet the requirement of limit.
2.1051 27.53(l)(4)(6)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(l)(4)(6)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(l)(4)(6)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -13.81dB at 13425.00MHz.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44dB
Radiated emissions	30MHz ~ 200MHz	3.71dB
	200MHz ~ 1000MHz	3.73dB
	1GHz ~ 18GHz	2.26dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2.5GHz WiMAX PC Card
MODEL NO.	125PCB120P005, 125PCB120P010
FCC ID	HEDWM8920BE
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	QPSK, 16QAM, 64QAM (refer to note 3 for mode detail)
CODING RATE	1/2, 3/4, 2/3, 5/6 (refer to note 3 for mode detail)
MODULATION TECHNOLOGY	OFDMA
FREQUENCY RANGE	2500MHz ~ 2690MHz
CHANNEL BANDWIDTH	5MHz, 10MHz
NUMBER OF CHANNEL	15
MAX. EIRP POWER	25.00dBm
OPERATION TEMPERATURE RANGE	0°C ~ 60°C
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE: 1. The models are different as below:

MODEL	REMARK
125PCB120P005	Channel bandwidth: 5MHz
125PCB120P010	Channel bandwidth: 10MHz

2. For the EUT with modulation type and coding rate:

DOWN LINK		UP LINK	
MODULATION	CODING RATE	MODULATION	CODING RATE
QPSK	1/2	QPSK	1/2
QPSK	3/4	QPSK	3/4
16QAM	1/2	16QAM	1/2
16QAM	3/4	16QAM	3/4
64QAM	1/2	/	
64QAM	2/3		
64QAM	3/4		
64QAM	5/6		

3. The above EUT information was declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

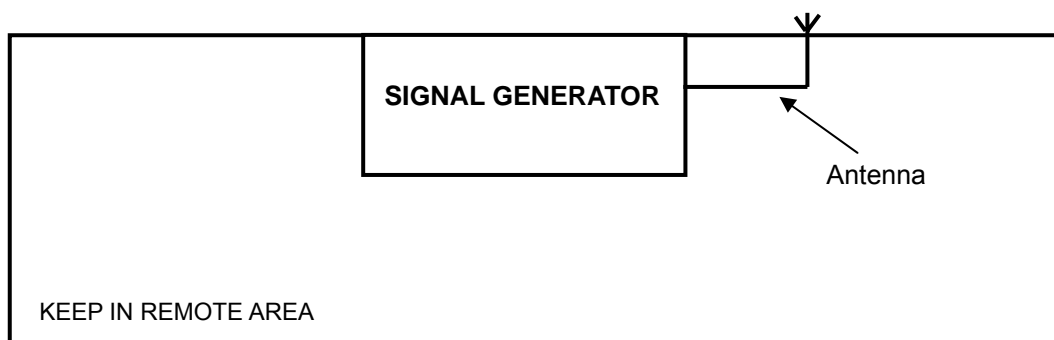
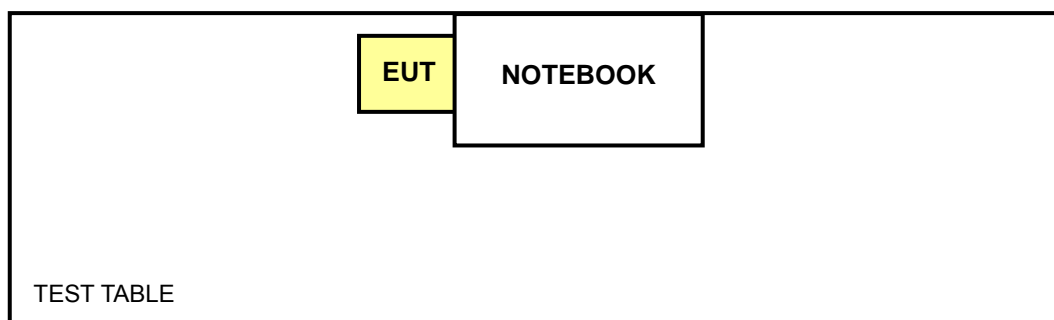
Three channels have been tested and presented.

Low channel (L): 2508.5MHz.

Middle channel (M): 2587.5MHz.

High channel (H): 2685.0MHz.

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO							DESCRIPTION
	OP	FS	EB	CE	CSE	RE<1G	RE≥1G	
A	√	√	√	√	√	√	√	Model no.: 125PCB120P005
B	√	√	√	√	√	√	√	Model no.: 125PCB120P010

Where **OP**: Output power **FS**: Frequency stability
EB: Emission bandwidth **CE**: Channel edge
CSE: Conducted spurious emissions **RE<1G**: Radiated emission below 1GHz
RE≥1G: Radiated emission above 1GHz

OUTPUT POWER MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L, M, H	OFDMA	16QAM	1/2

FREQUENCY STABILITY MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L	OFDMA	16QAM	1/2

EMISSION BANDWIDTH MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L, M, H	OFDMA	16QAM	1/2



CHANNEL EDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L, M, H	OFDMA	16QAM	1/2

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L, M, H	OFDMA	16QAM	1/2

RADIATED EMISSION MEASUREMENT (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L	OFDMA	16QAM	1/2

RADIATED EMISSION MEASUREMENT (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CODING RATE
A, B	L, M, H	OFDMA	16QAM	1/2



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI C63.4-2003

ANSI/TIA/EIA-603-A

NOTE: All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	ESG Vector Signal Generator	Agilent	E4438C	MY45092849	NA
2	NOTEBOOK	HP	nx6215	s/n:CND5390CMP	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE: All power cords of the above support units are non shielded (1.8m).



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “Mobile stations are limited to 2 watts e.i.r.p” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	May 22, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Oct. 05, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May 31, 2007
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 27, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 28, 2007
Preamplifier Agilent	8447D	2944A10633	Oct. 26, 2007
Preamplifier Agilent	8449B	3008A01964	Oct. 26, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238137/4	Dec. 11, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007
Software ADT.	ADT_Radiated_V7.6	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

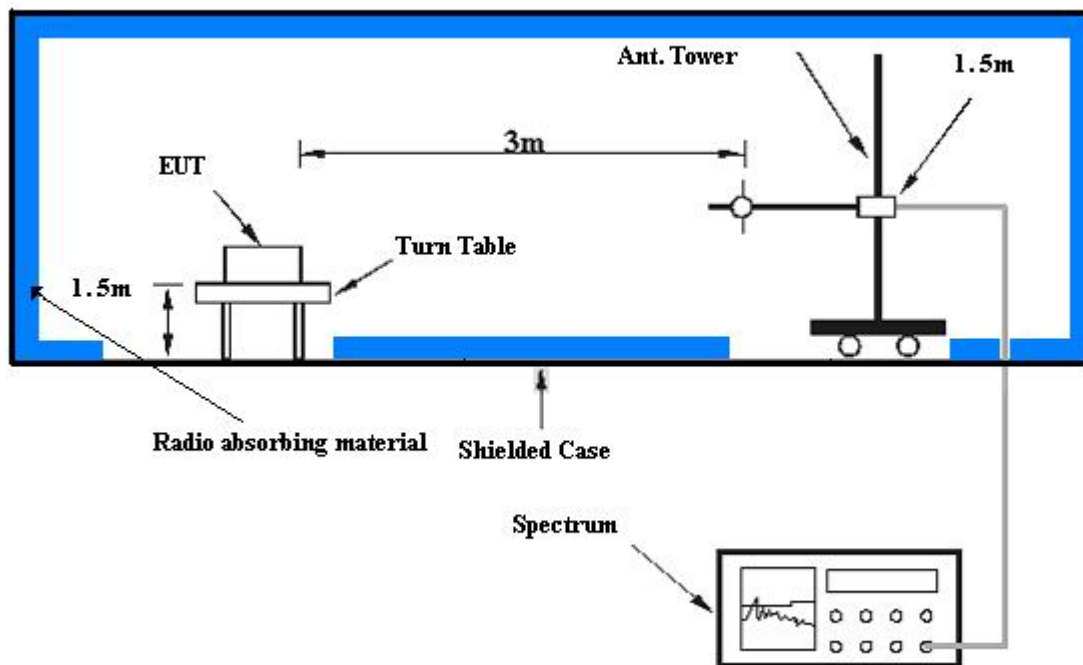
- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The VCCI Site Registration No. is R-237.
 5. The IC Site Registration No. is IC3789B-3.

4.1.3 TEST PROCEDURES

- a. The EUT was set up for the rated peak power with signal generator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. E.I.R.P peak power measurement. In the fully anechoic chamber, EUT placed on the 1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signal generator export the CW signal to the calibration antenna. Rotated the Turn Table to find the maximum radiation power. “Raw” is the spectrum reading value, “SG” is signal generator export power, “TX Gain” is calibration antenna isotropic gain value, “TX cable” is the transmitted cable loss between the calibration antenna and signal generator. The “Factor” means that the transmission path loss is equal to “SG” - “TX cable” + “TX Gain” – “Raw”.
- d. Actually the real E.I.R.P peak power is equal to “Read Value” + “Factor”.

4.1.4 TEST SETUP

EIRP POWER MEASUREMENT:



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

4.1.5 EUT OPERATING CONDITIONS

- a. Link up EUT with signal generator.
- b. The signal generator controlled EUT to export rated output power under transmission mode and specific channel frequency.



4.1.6 TEST RESULTS

INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	RMS
TEST MODE	A	ENVIRONMENTAL CONDITIONS	26deg°C, 65%RH 991hPa
TESTED BY	Long Chen		

EIRP POWER					
CHANNEL	FREQUENCY (MHz)	ANTENNA GAIN (dBi)	CABLE LOSS (dB)	S.G LEVEL (dBm)	PEAK OUTPUT POWER (dBm)
Low	2508.5	10.40	1.11	12.93	24.44
Middle	2587.5	10.40	1.11	12.66	24.17
High	2685.0	10.40	1.11	12.47	23.98

CONDUCTED POWER			
CHANNEL	FREQUENCY (MHz)	PEAK OUTPUT POWER (dBm)	PEAK OUTPUT POWER (mW)
Low	2508.5	22.85	192.752
Middle	2587.5	22.68	185.353
High	2685.0	22.29	169.434



INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	RMS
TEST MODE	B	ENVIRONMENTAL CONDITIONS	26deg°C, 65%RH 991hPa
TESTED BY	Long Chen		

EIRP POWER					
CHANNEL	FREQUENCY (MHz)	ANTENNA GAIN (dBi)	CABLE LOSS (dB)	S.G LEVEL (dBm)	PEAK OUTPUT POWER (dBm)
Low	2508.5	10.40	1.11	13.49	25.00
Middle	2587.5	10.40	1.11	13.32	24.83
High	2685.0	10.40	1.11	13.00	24.51

CONDUCTED POWER			
CHANNEL	FREQUENCY (MHz)	PEAK OUTPUT POWER (dBm)	PEAK OUTPUT POWER (mW)
Low	2508.5	23.41	219.280
Middle	2587.5	23.24	210.863
High	2685.0	22.82	191.426



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT 0°C ~ 60°C.

4.2.2 TEST INSTRUMENTS

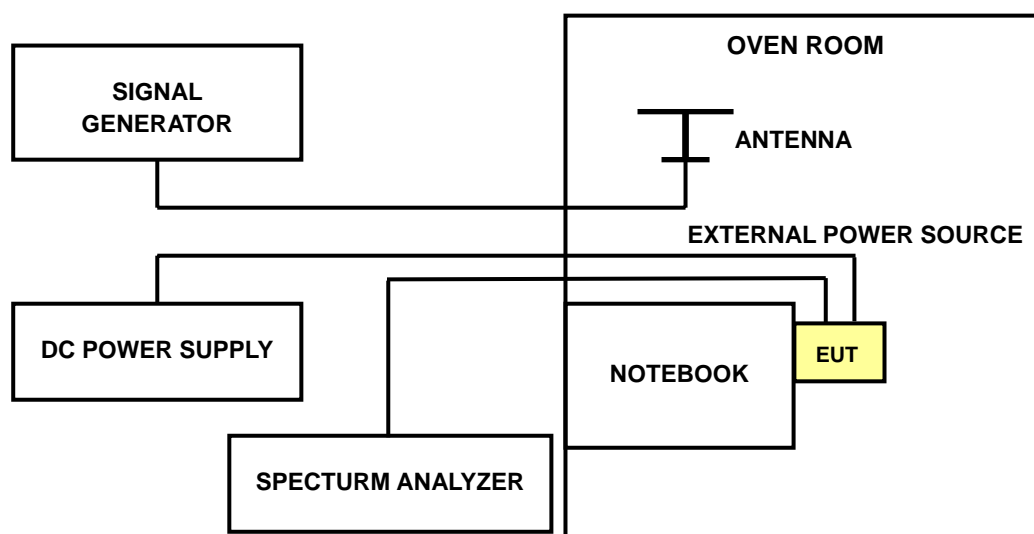
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Oct. 05, 2007
* Hewlett Packard RF cable	8120-6192	01428251	NA
* Suhner RF cable	Sucoflex104	204850/4	NA
* WIT Standard Temperature & Humidity Chamber	TH-4S-C	W981030	Jul. 10, 2007

- 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. "*" = These equipments are used for the final measurement.
 3. The test was performed in ADT RF OVEN room.

4.2.3 TEST PROCEDURE

- a. Power must be removed when changing from one temperature to another or one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The various Volts from the minimum 2.805 Volts to 3.795 Volts. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing.
- d. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

4.2.4 TEST SETUP





4.2.5 TEST RESULTS

MODE	Low channel (2508.5MHz)	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	A	ENVIRONMENTAL CONDITIONS	26deg°C, 65%RH 991hPa
TESTED BY	Long Chen		

AFC FREQUENCY ERROR VS. VOLTAGE	
VOLTAGE (Volts)	FREQUENCY (MHz)
2.805	2507.842953
3.300	2507.842952
3.795	2507.842950



MODE	Low channel (2508.5MHz)	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	A	ENVIRONMENTAL CONDITIONS	26deg°C, 65%RH 991hPa
TESTED BY	Long Chen		

AFC FREQUENCY ERROR VS. TEMP.	
TEMP. (°C)	FREQUENCY (MHz)
60	2507.842958
50	2507.842956
40	2507.842957
30	2507.842953
20	2507.842952
10	2507.842954
0	2507.842958



MODE	Low channel (2508.5MHz)	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	B	ENVIRONMENTAL CONDITIONS	26deg°C, 65%RH 991hPa
TESTED BY	Long Chen		

AFC FREQUENCY ERROR VS. VOLTAGE	
VOLTAGE (Volts)	FREQUENCY (MHz)
2.805	2508.4976
3.300	2508.4973
3.795	2508.4978



MODE	Low channel (2508.5MHz)	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	B	ENVIRONMENTAL CONDITIONS	26deg°C, 65%RH 991hPa
TESTED BY	Long Chen		

AFC FREQUENCY ERROR VS. TEMP.	
TEMP. (°C)	FREQUENCY (MHz)
60	2508.4977
50	2508.4978
40	2508.4975
30	2508.4975
20	2508.4973
10	2508.4972
0	2508.4970

4.3 EMISSION BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF EMISSION BANDWIDTH MEASUREMENT

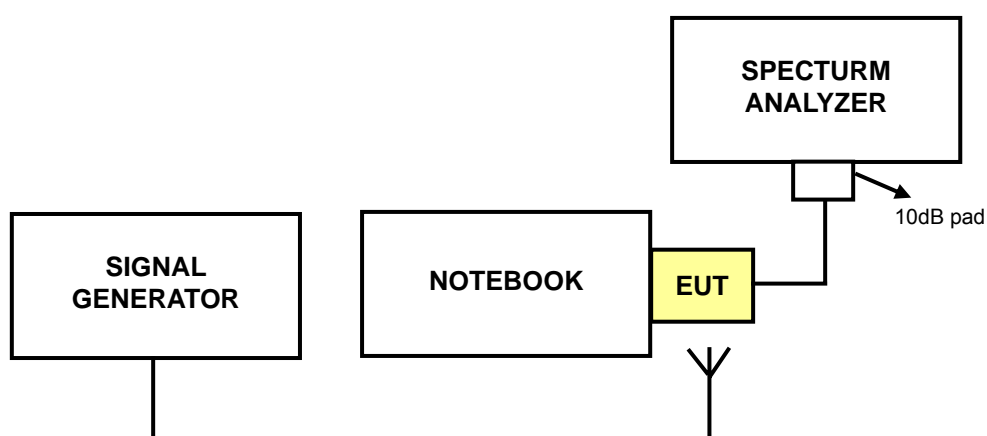
According to FCC 27.53(l)(6) specified that emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100035	Mar. 29, 2007
* Hewlett Packard RF cable	8120-6192	01428251	NA
* JFW 10dB attenuation	50HF-010-SMA	NA	NA
* Suhner RF cable	Sucoflex104	204850/4	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. "*" = These equipments are used for the final measurement.

4.3.3 TEST SETUP





4.3.4 TEST PROCEDURES

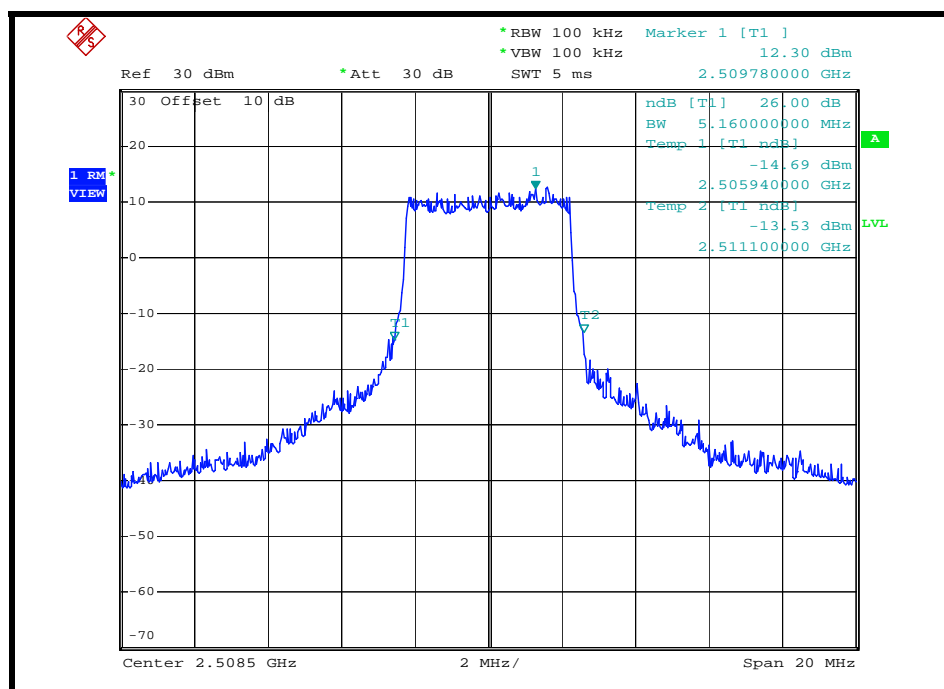
- a. Link up EUT with signal generator.
- b. The signal generator controlled EUT to export rated output power under transmission mode and specific channel frequency. FCC 27.53(l)(6) required a measurement bandwidth is the fundamental emission below 26dB bandwidth.

4.3.5 TEST RESULTS

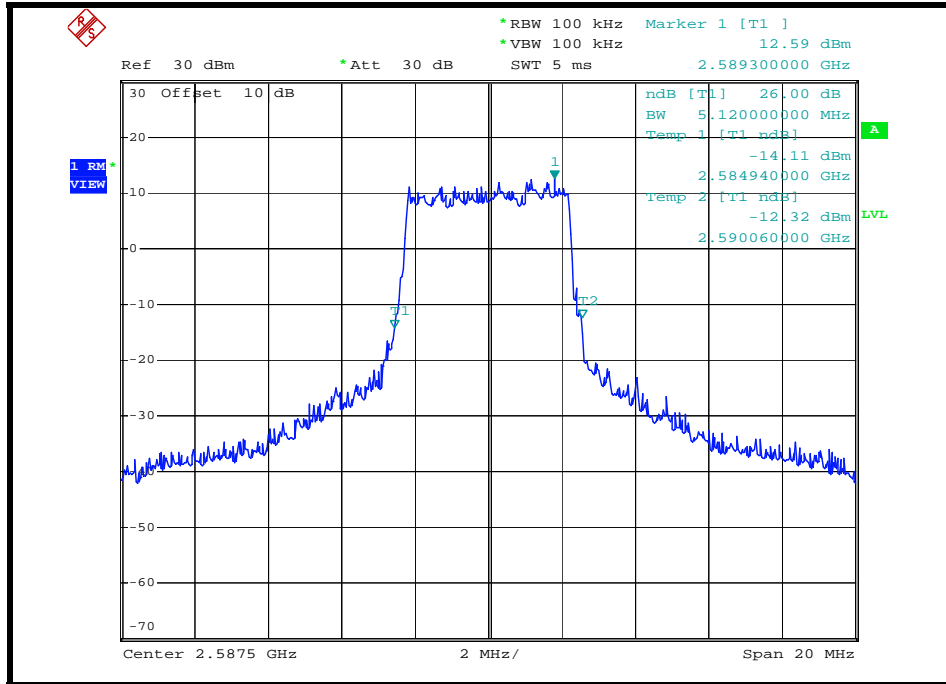
TEST MODE: A

FREQUENCY (MHz)	-26 dBc BANDWIDTH (MHz)
2508.5	5.16
2587.5	5.12
2685.0	5.12

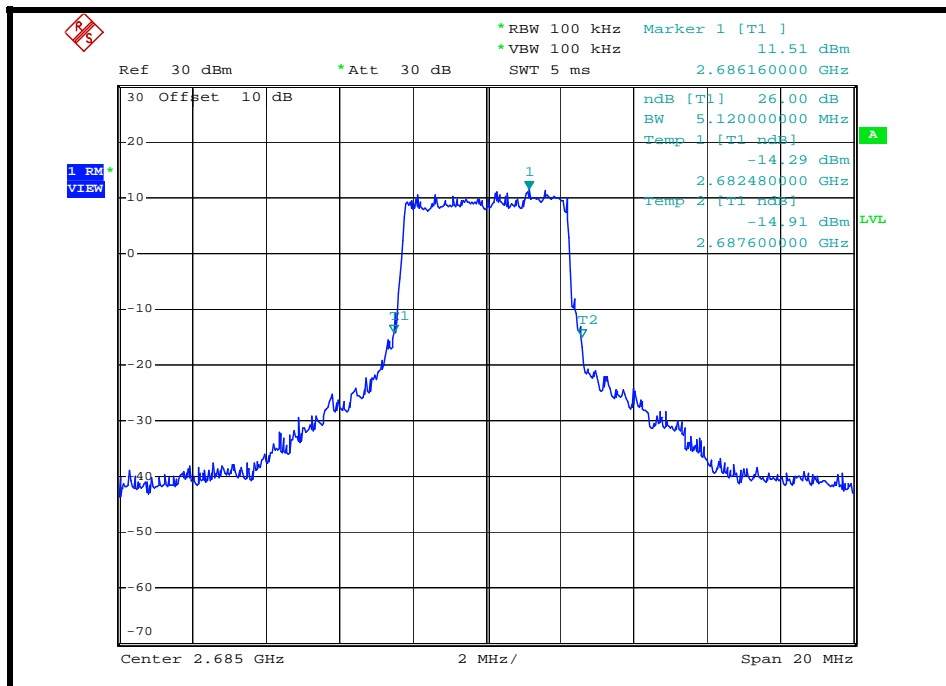
LOW CHANNEL



MIDDLE CHANNEL



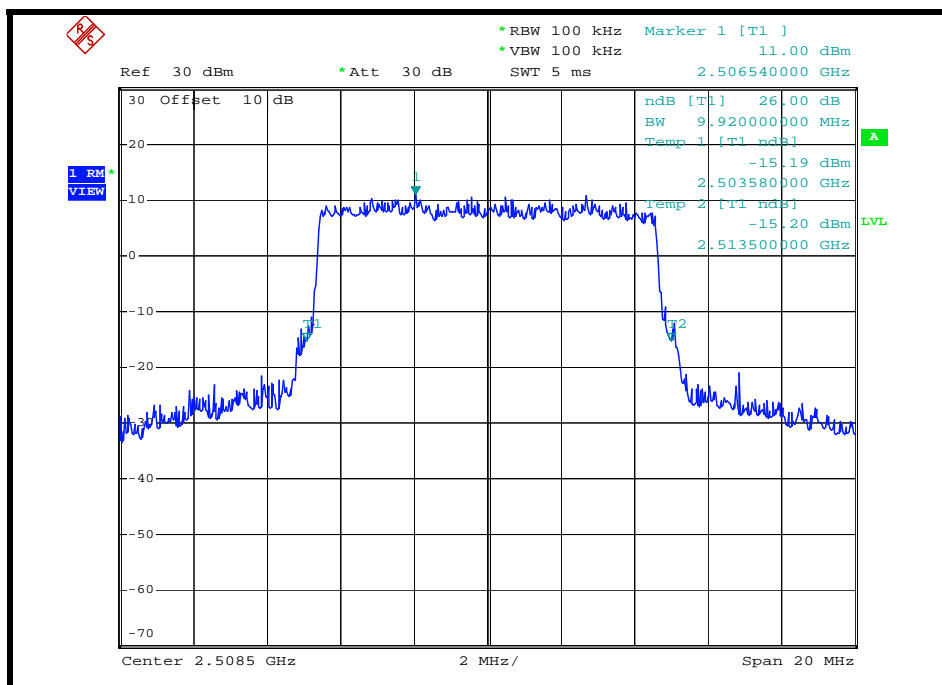
HIGH CHANNEL



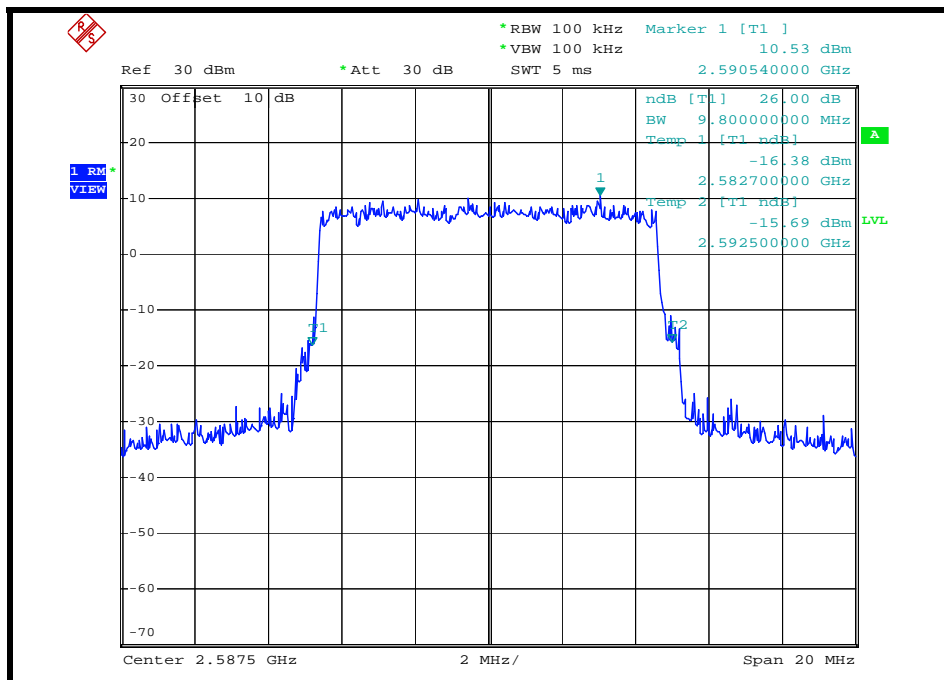
TEST MODE: B

FREQUENCY (MHz)	-26 dBc BANDWIDTH (MHz)
2508.5	9.92
2587.5	9.80
2685.0	9.92

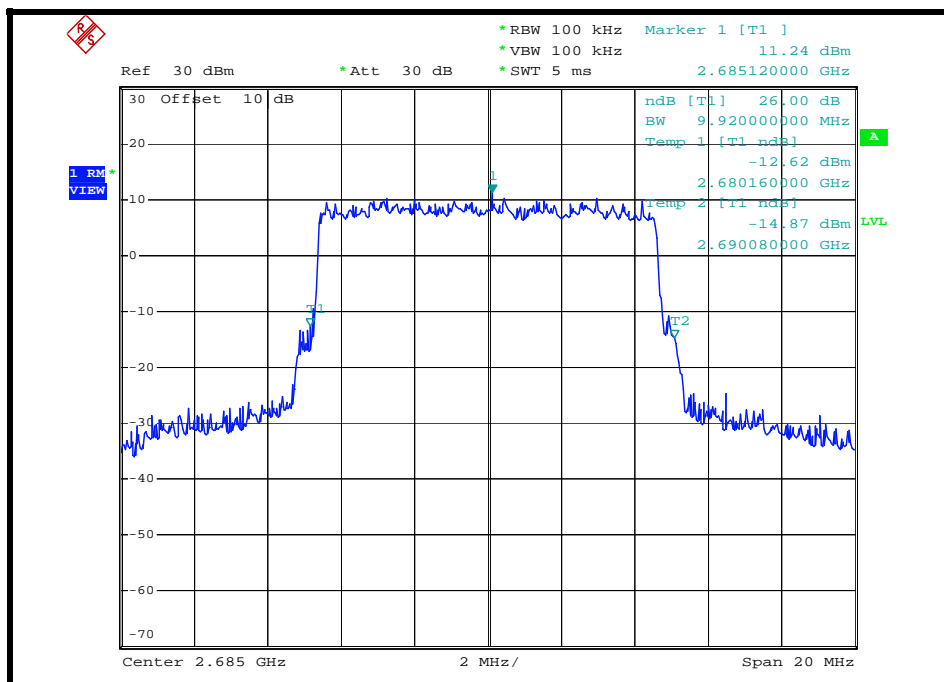
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



4.4 CHANNEL EDGE MEASUREMENT

4.4.1 LIMITS OF CHANNEL EDGE MEASUREMENT

According to FCC 27.53(l)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The specified minimum attenuation becomes 43dB and the limit of emission equal to -13 dBm. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* Agilent Spectrum Analyzer	E4440A	MY46185282	Jun. 08, 2007
* JFW 10dB attenuation	50HF-010-SMA	NA	NA
* Suhner RF cable	Sucoflex104	204850/4	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. "*" = These equipments are used for the final measurement.

4.4.3 TEST SETUP

Same as Item 4.3.3

4.4.4 TEST PROCEDURES

- a. The EUT was set up for the rated peak power with signal generator. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 56kHz (Test mode A) / 100kHz (Test mode B).
- c. Record the max trace plot into the test report.

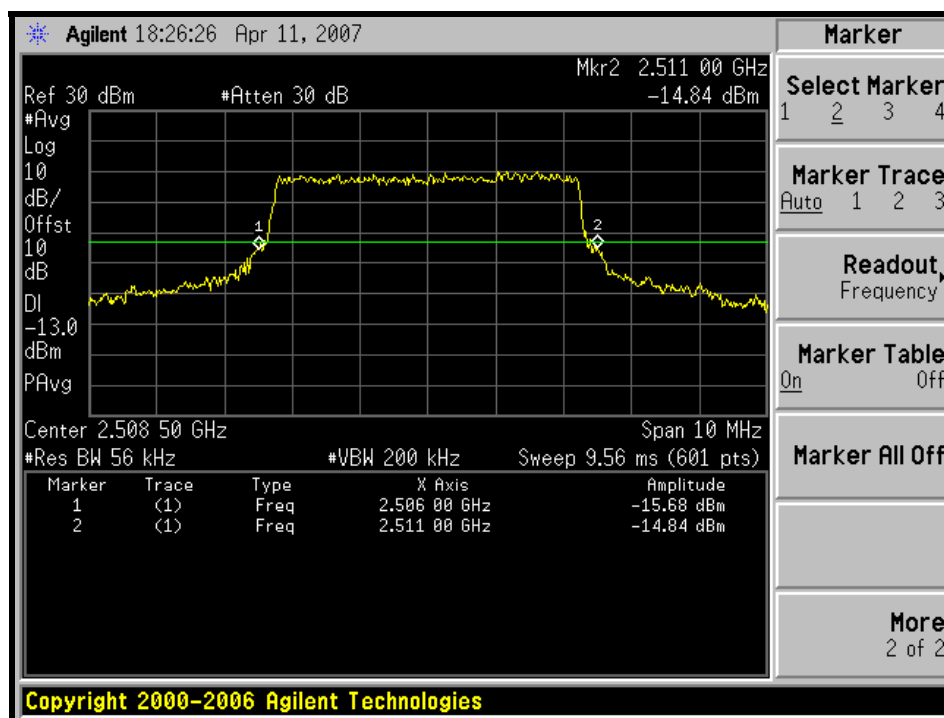
4.4.5 EUT OPERATING CONDITION

- a. Link up EUT with signal generator.
- b. The signal generator controlled EUT to export rated output power under transmission mode and specific channel frequency.

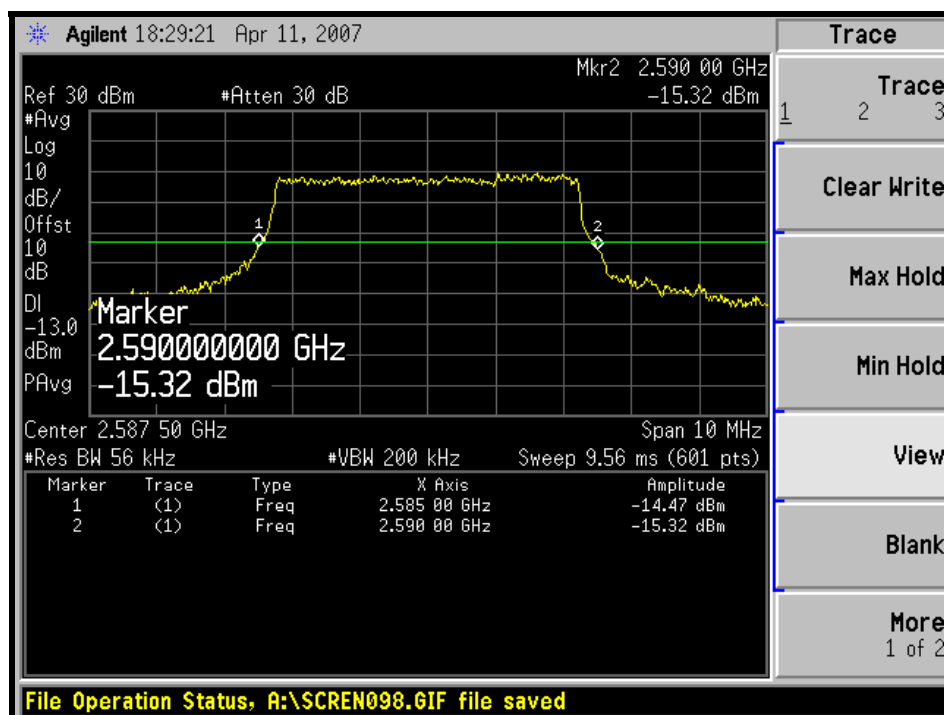
4.4.6 TEST RESULTS

TEST MODE: A

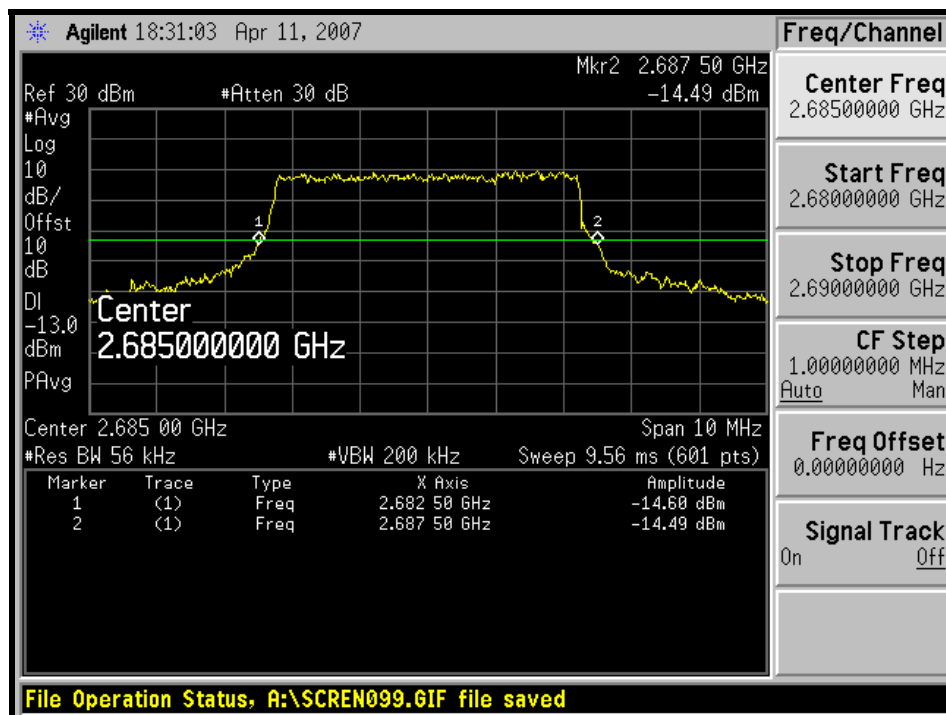
LOW CHANNEL



MIDDLE CHANNEL

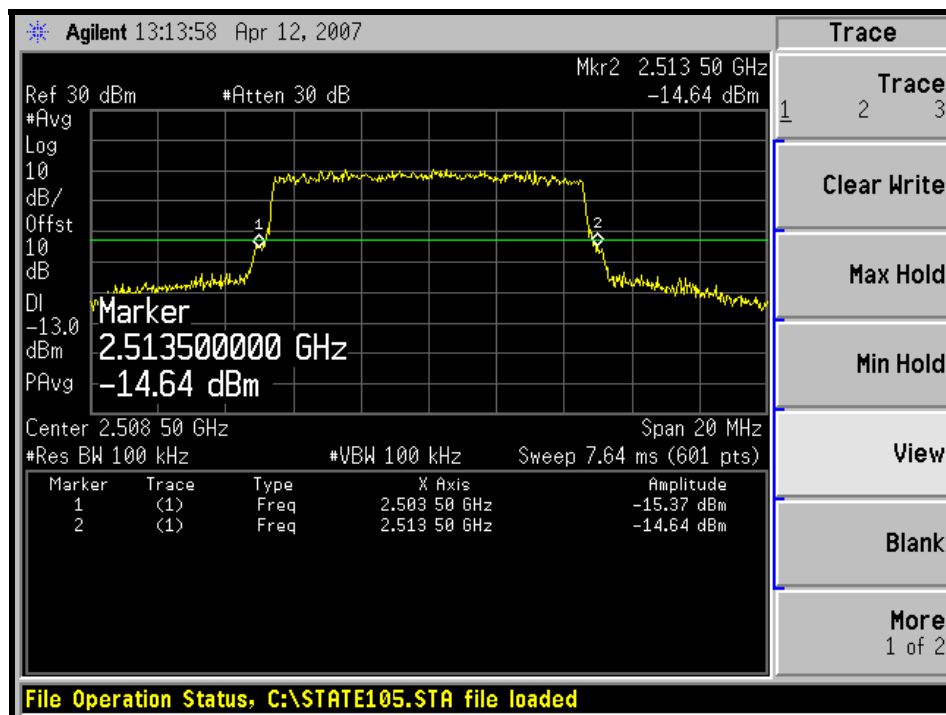


HIGH CHANNEL

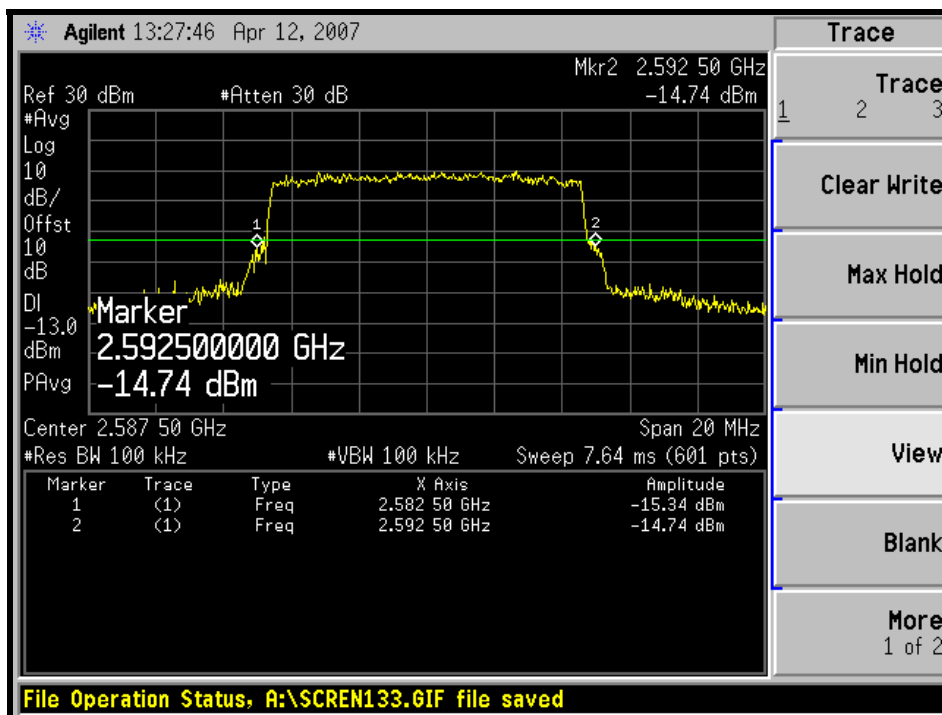


TEST MODE: B

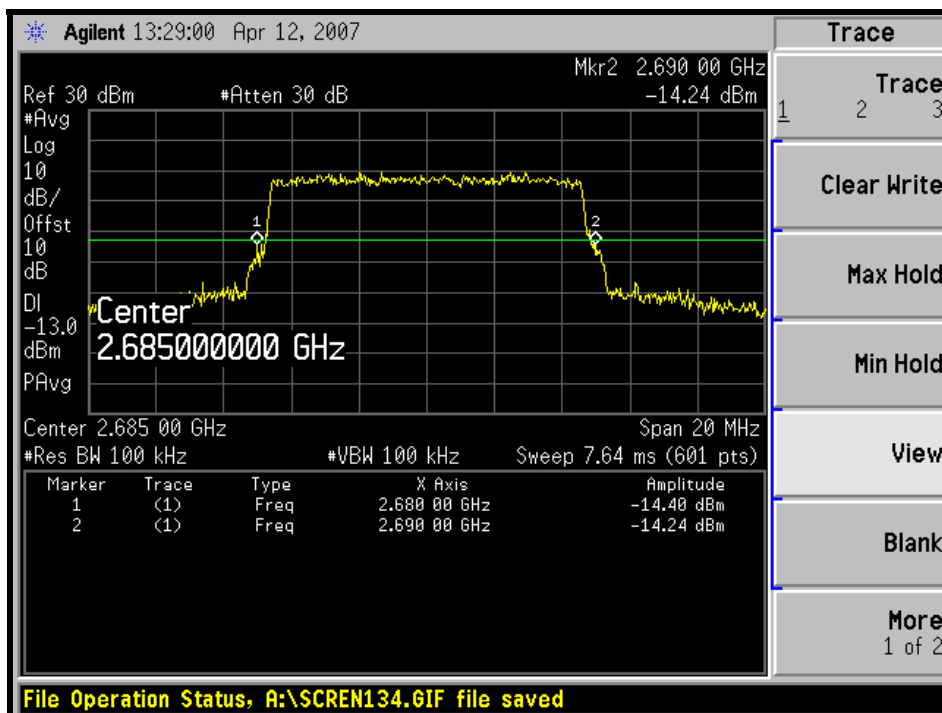
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL





4.5 CONDUCTED SPURIOUS EMISSIONS

4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

In the FCC 27.53(l)(4), On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The specified minimum attenuation becomes 43dB and the limit of emission equal to -13 dBm.

4.5.2 TEST INSTRUMENTS

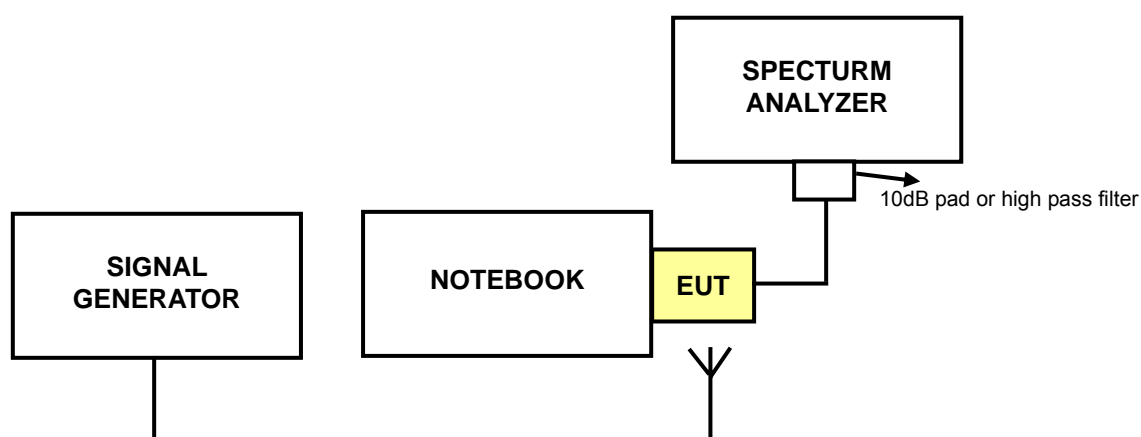
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100035	Mar. 29, 2007
* Wainwright Instruments High Pass Filter	WHK3.1/18G-10SS	ZZ-010091	NA
* JFW 10dB attenuation	50HF-010-SMA	NA	NA
* Suhner RF cable	Sucoflex104	204850/4	NA

- 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. "*" = These equipments are used for the final measurement.

4.5.3 TEST PROCEDURE

- a. The EUT was set up for the rated peak power with signal generator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the 10dB pad attenuated the carried frequency. The spectrum set RB = 1MHz, VB = 3MHz.
- c. When the spectrum scanned from 3GHz to 27GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB = 1MHz, VB = 3MHz.

4.5.4 TEST SETUP



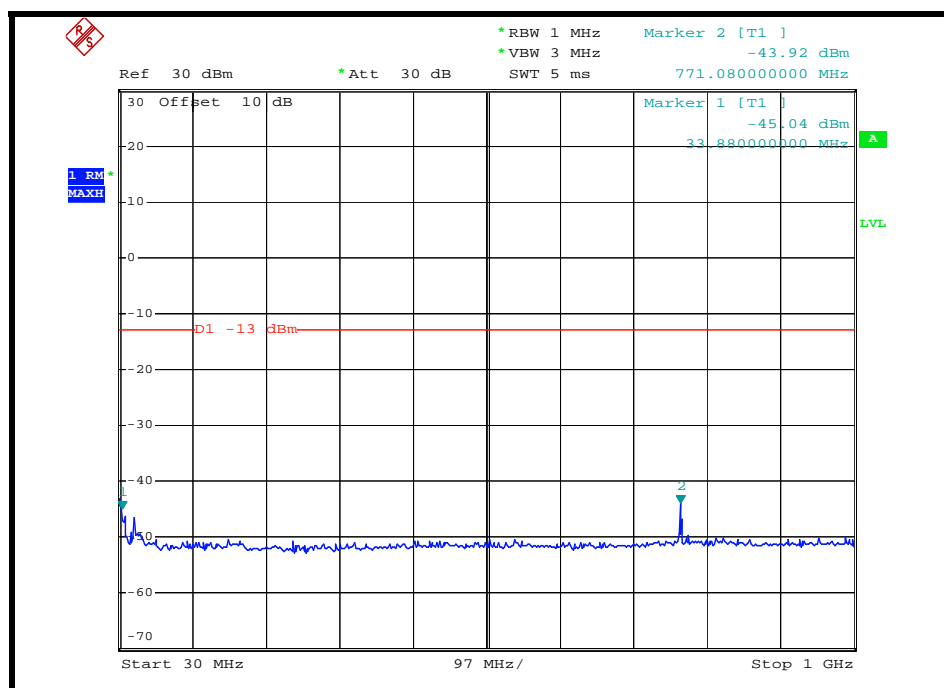
4.5.5 EUT OPERATING CONDITIONS

- a. Link up EUT with signal generator.
- b. The signal generator controlled EUT to export rated output power under transmission mode and specific channel frequency.

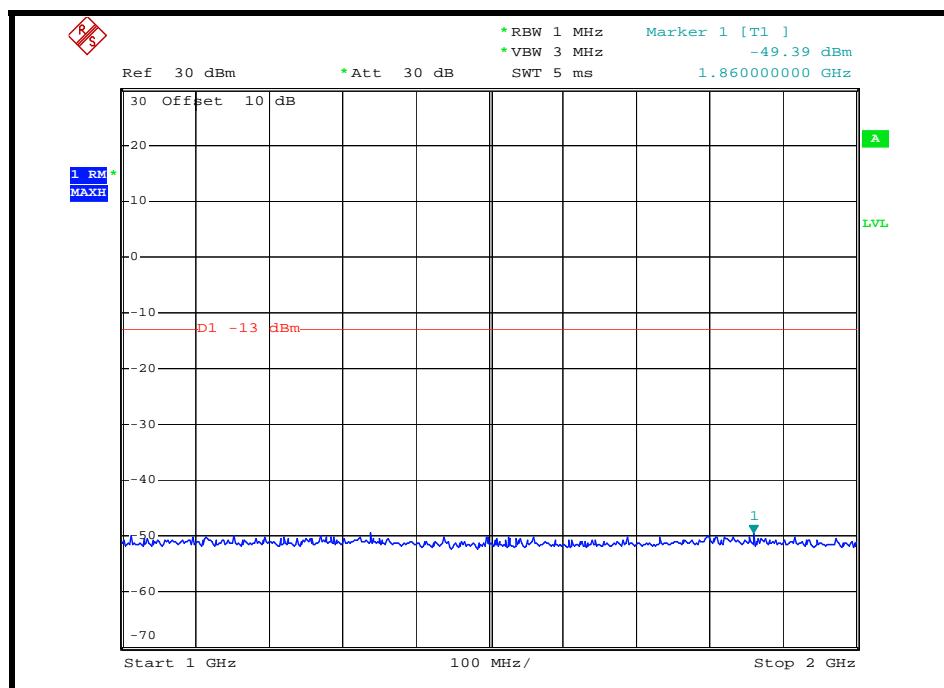
4.5.6 TEST RESULTS

TEST MODE: A

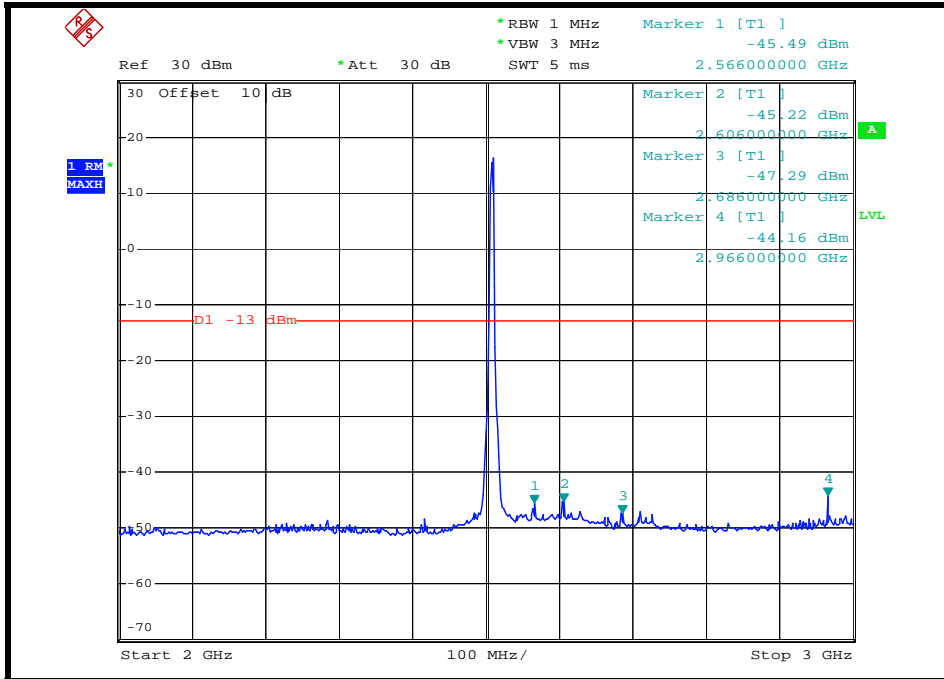
LOW CHANNEL: 30MHz ~ 1GHz:



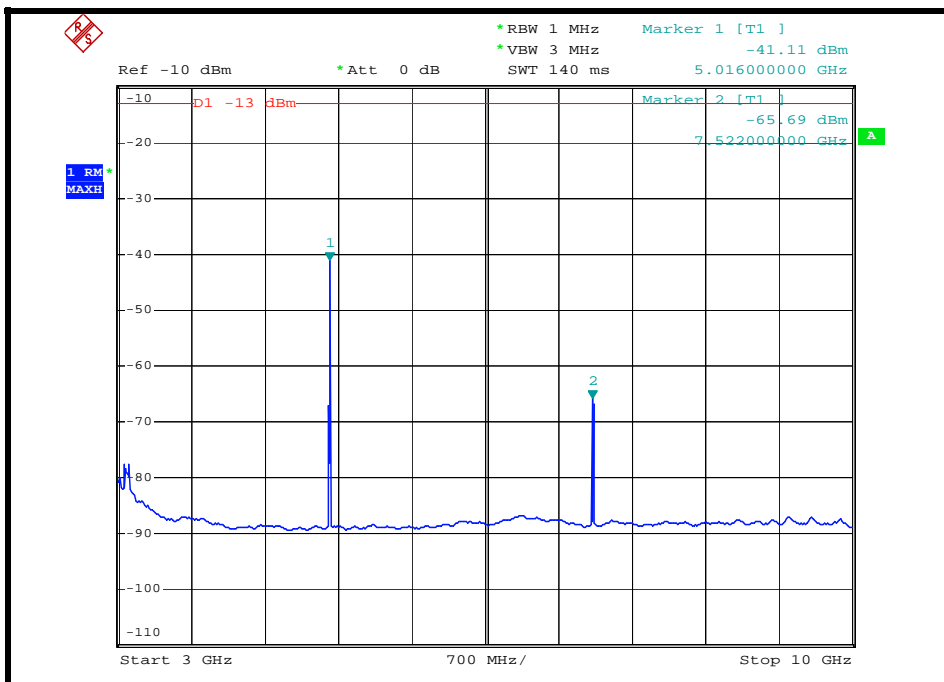
1GHz ~ 2GHz:



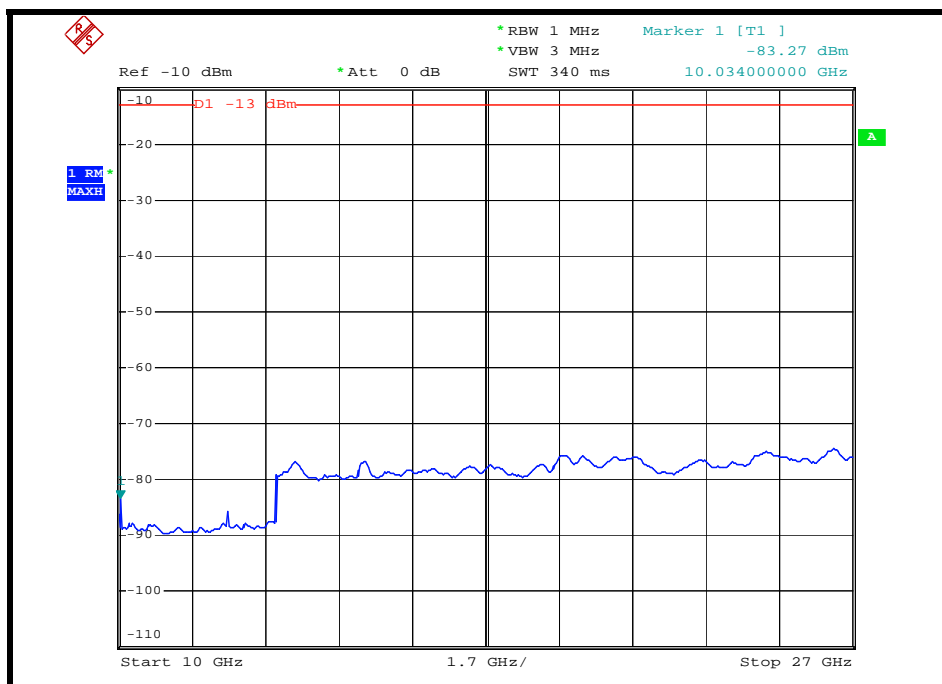
2GHz ~ 3GHz:



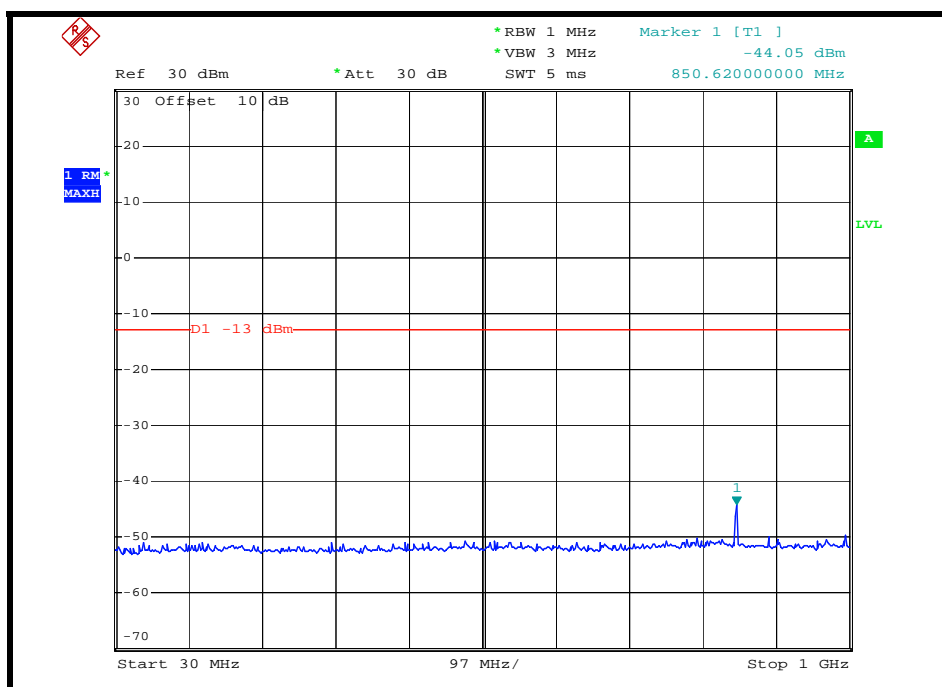
3GHz ~ 10GHz:



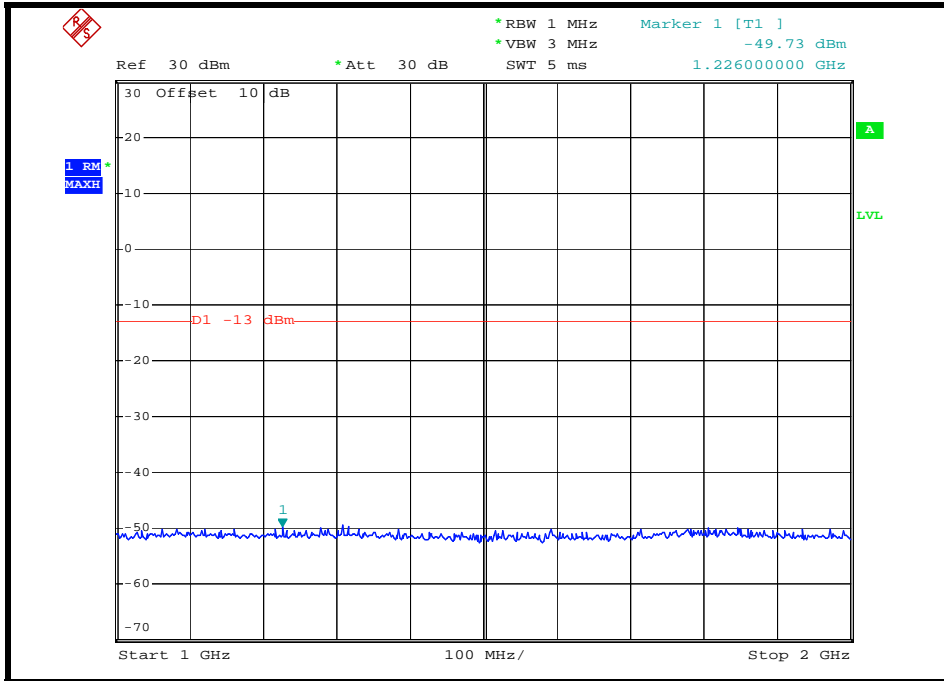
10GHz ~ 27GHz:



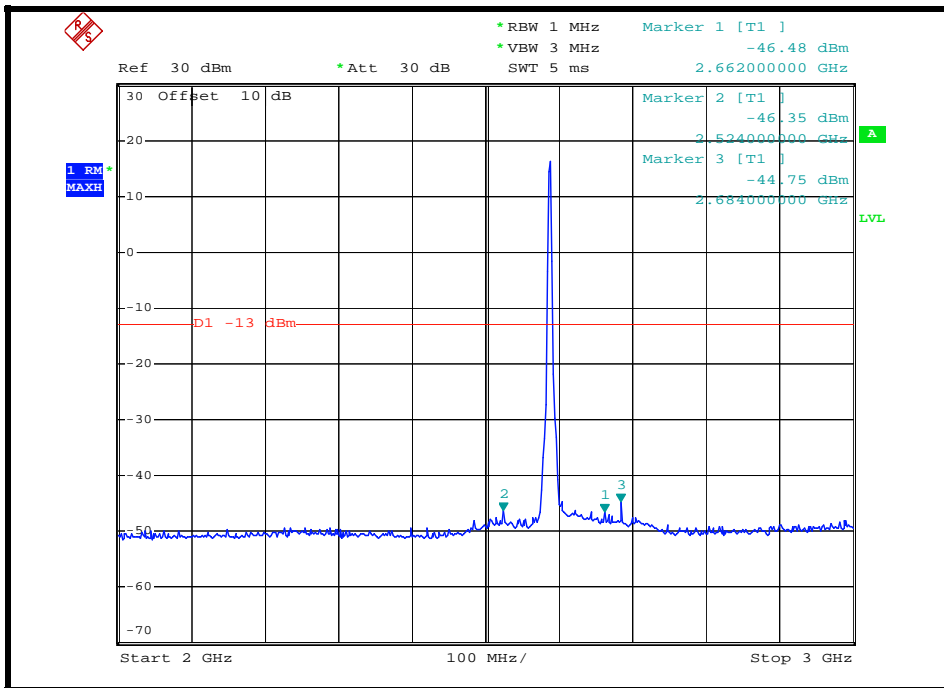
MIDDLE CHANNEL: 30MHz ~ 1GHz:



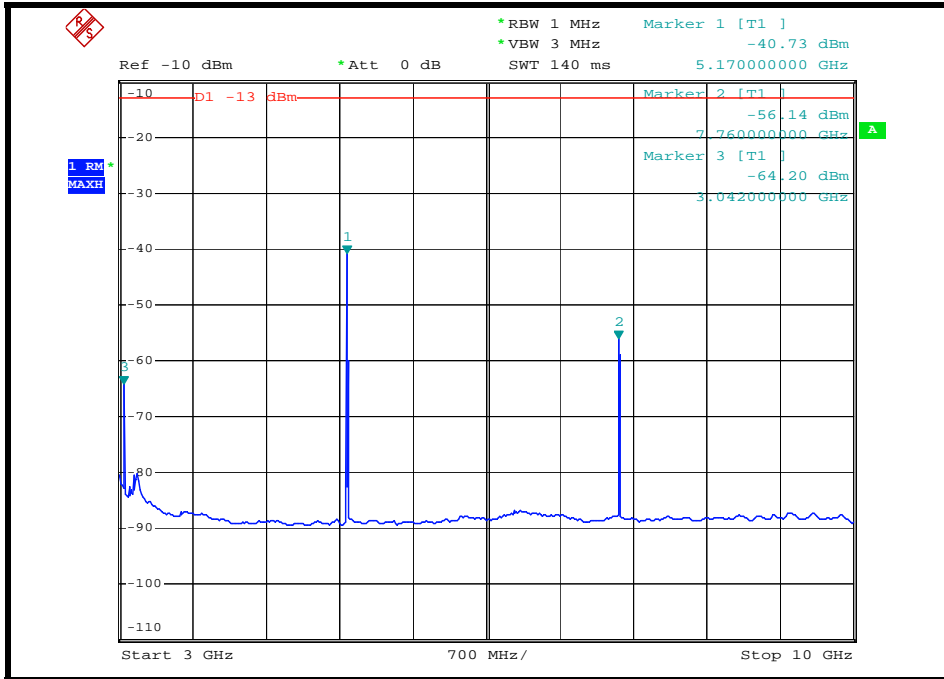
1GHz ~ 2GHz:



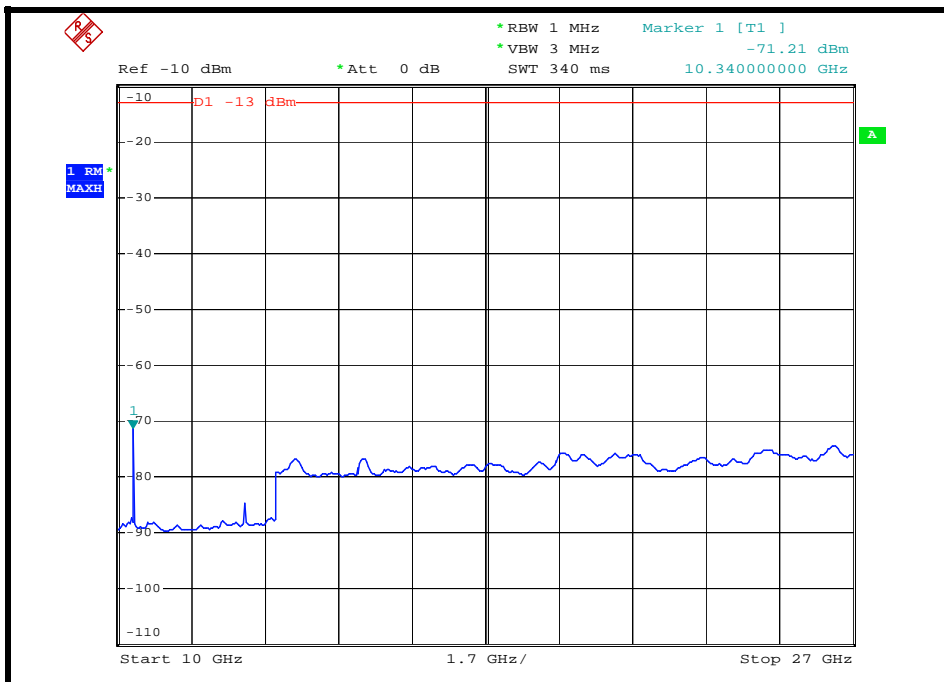
2GHz ~ 3GHz:



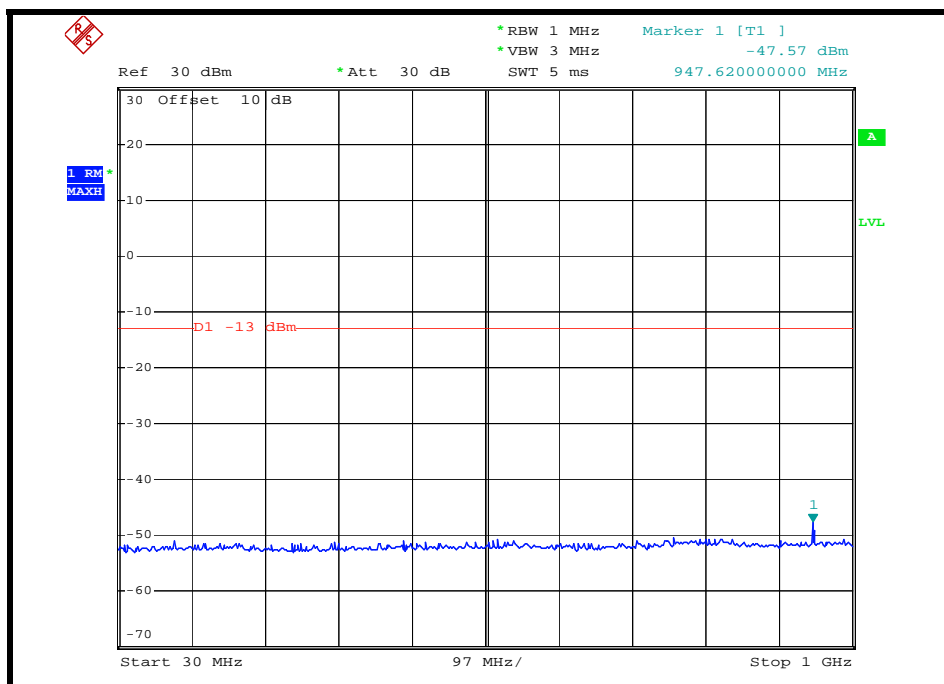
3GHz ~ 10GHz:



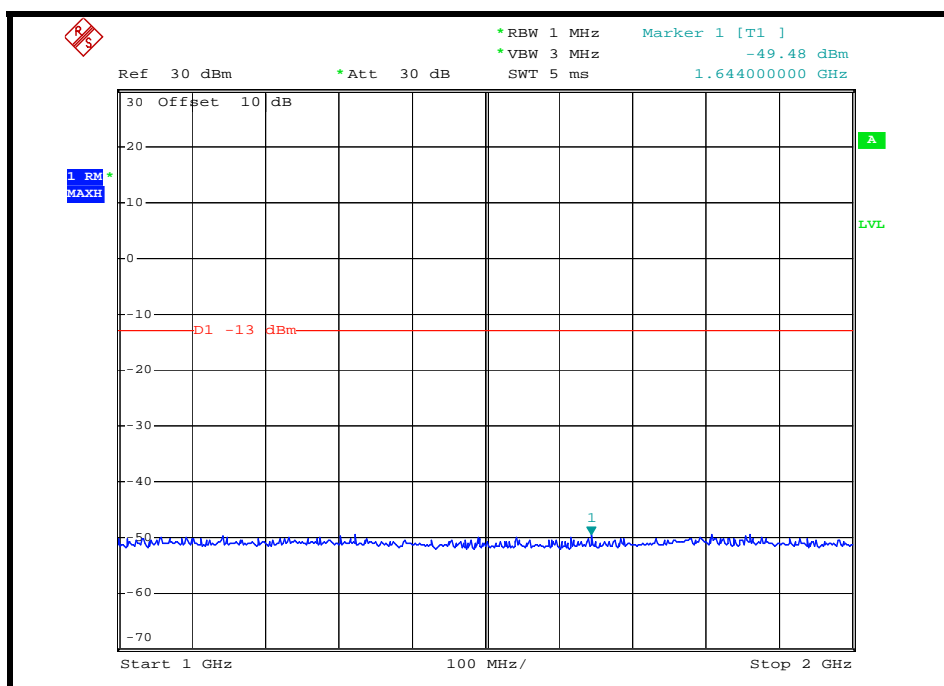
10GHz ~ 27GHz:



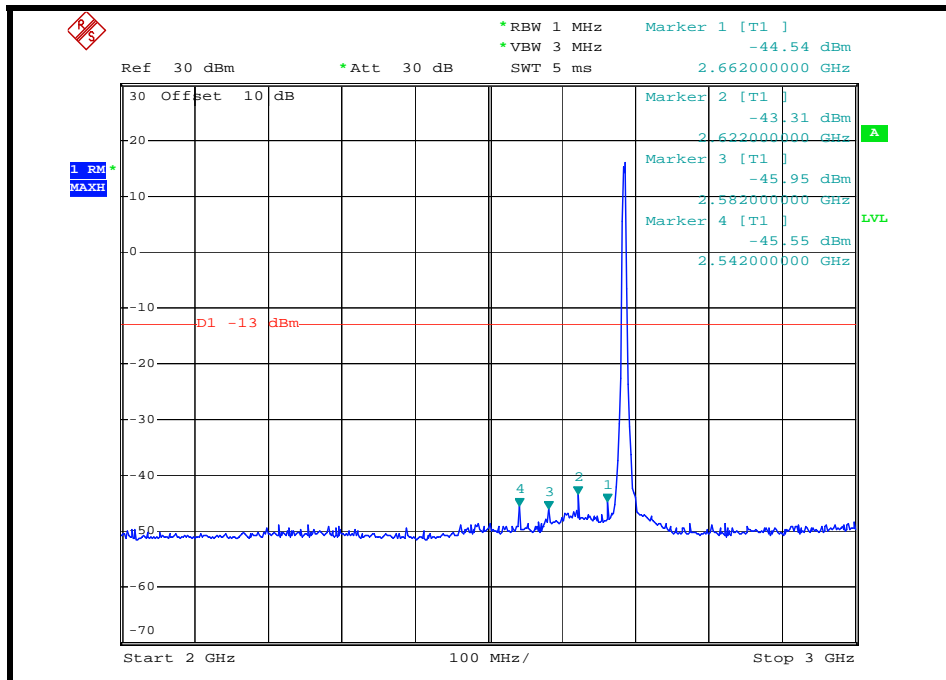
HIGH CHANNEL: 30MHz ~ 1GHz:



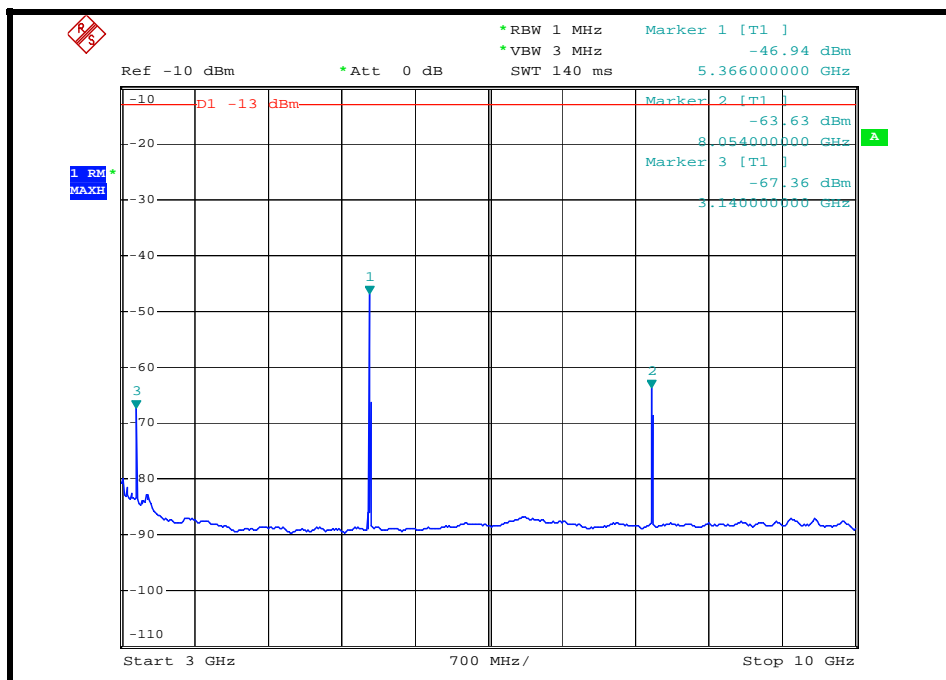
1GHz ~ 2GHz:



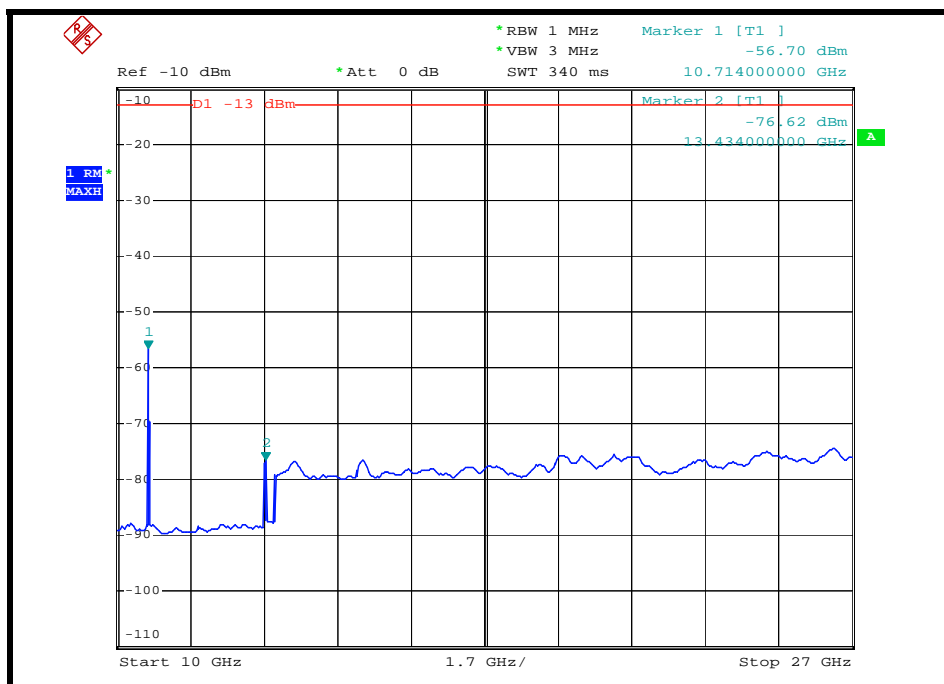
2GHz ~ 3GHz:



3GHz ~ 10GHz:

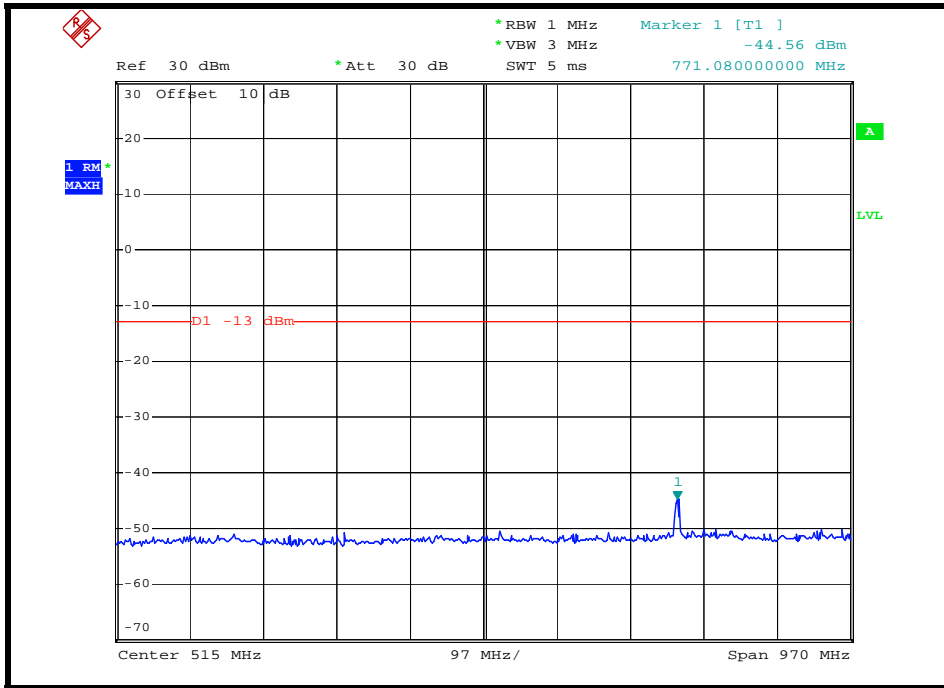


10GHz ~ 27GHz:

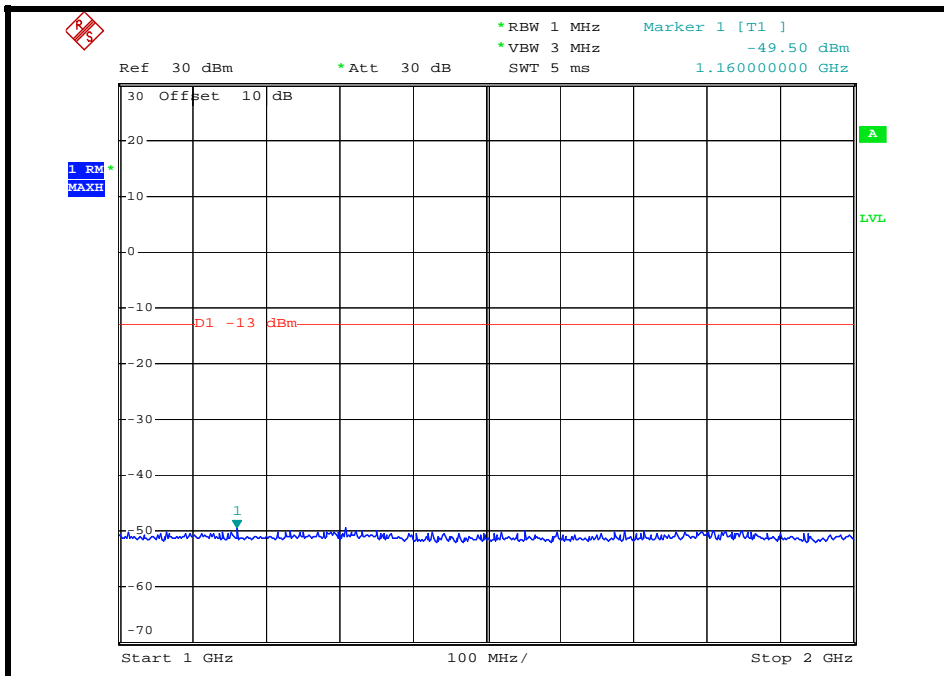


TEST MODE: B

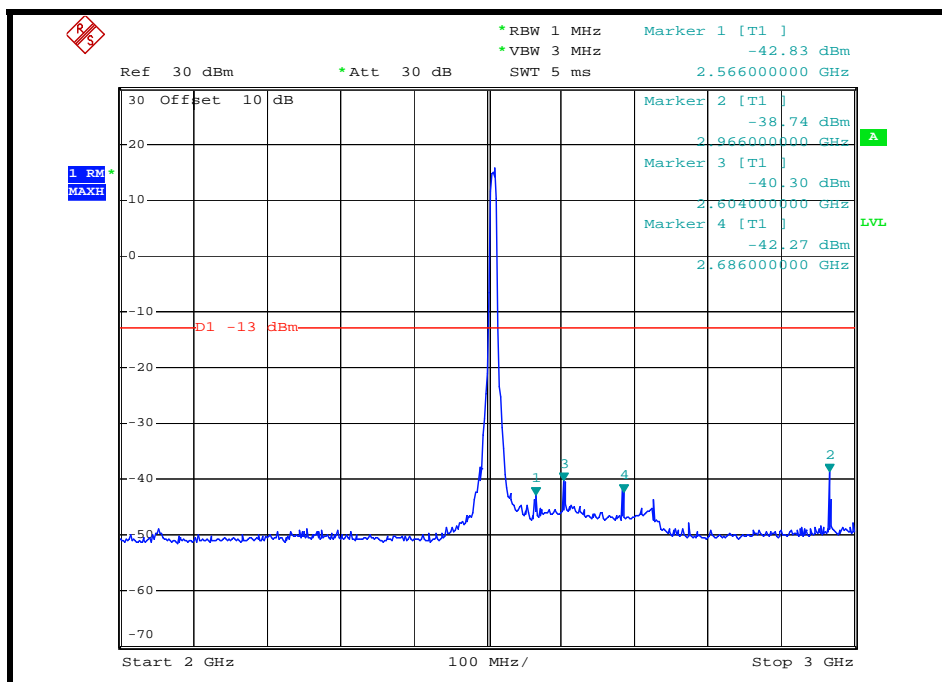
LOW CHANNEL: 30MHz ~ 1GHz:



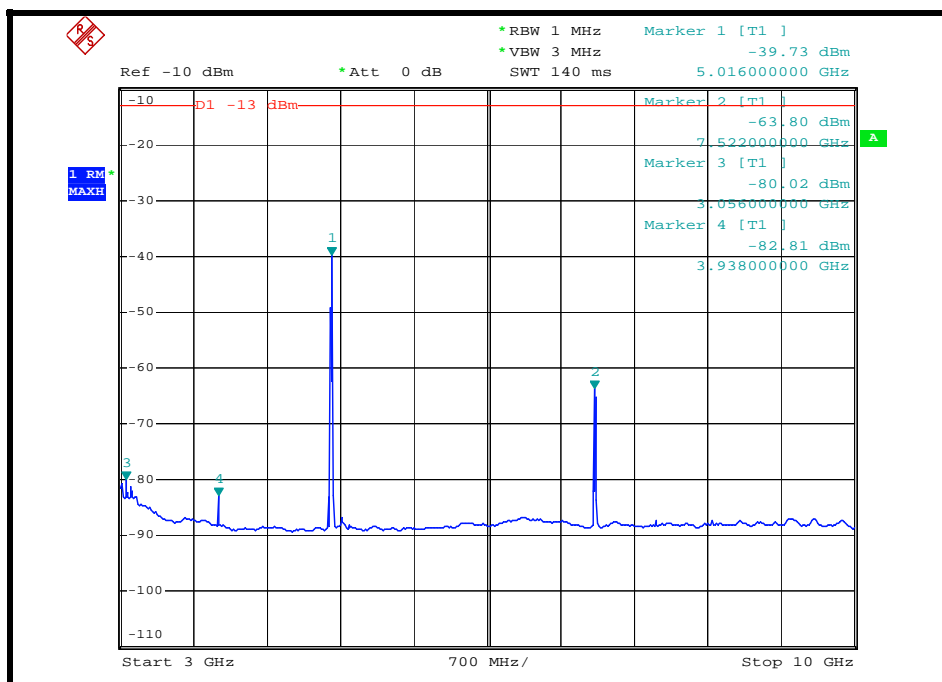
1GHz ~ 2GHz:



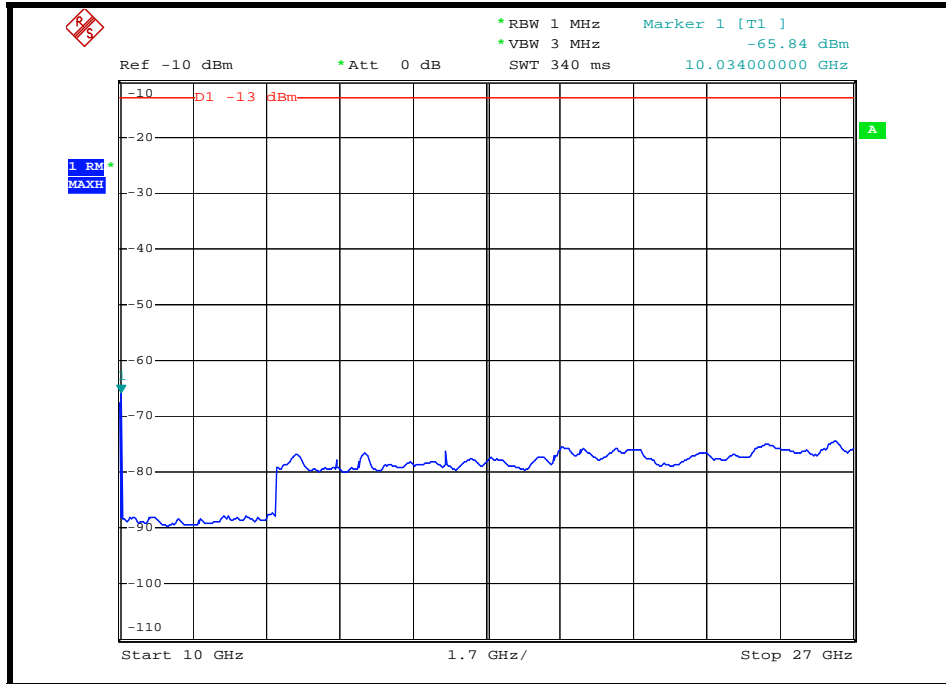
2GHz ~ 3GHz:



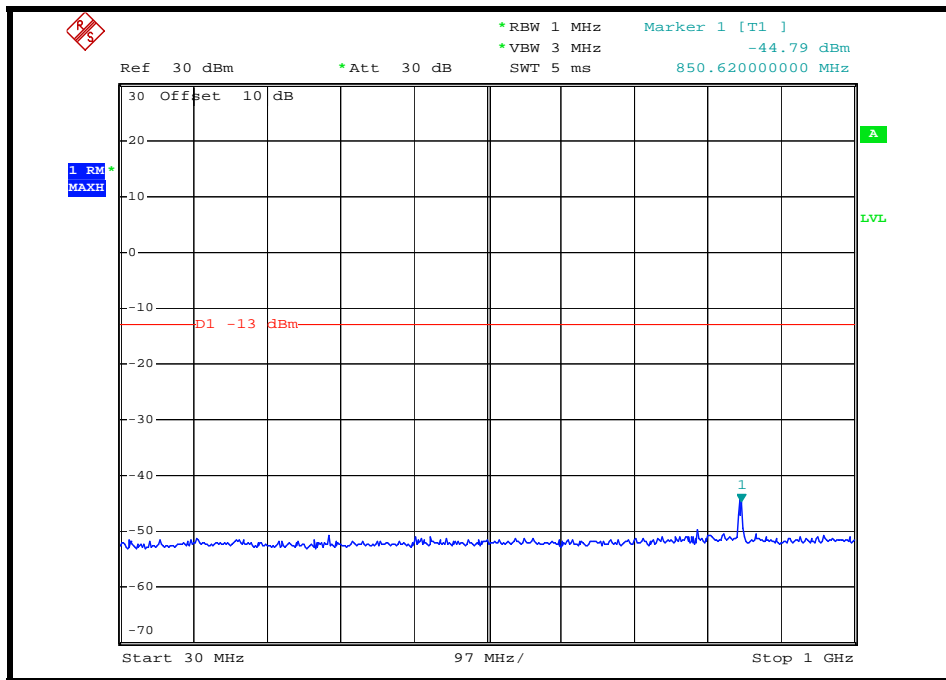
3GHz ~ 10GHz:



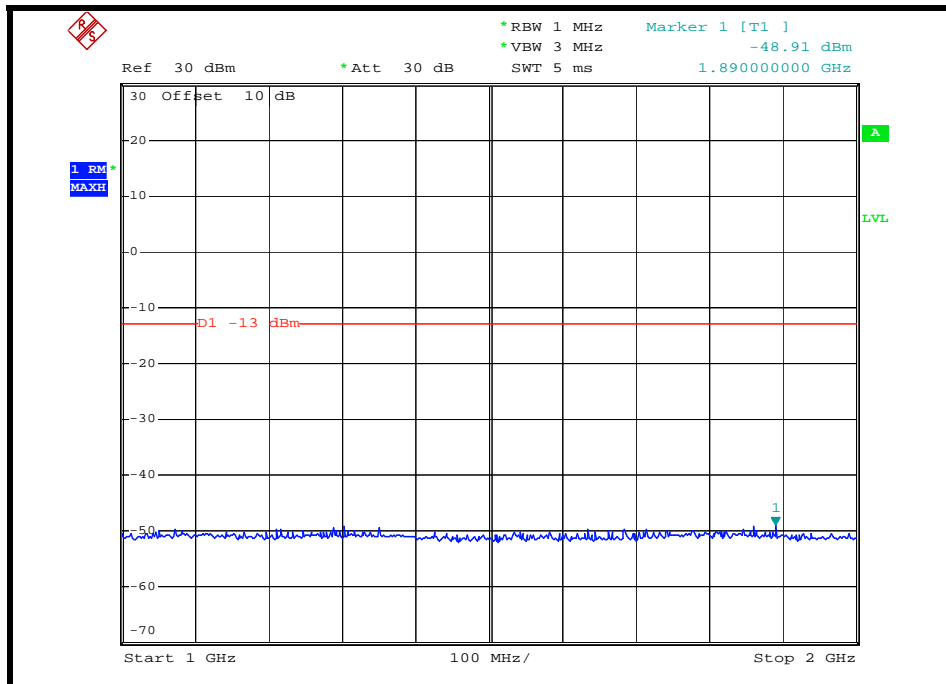
10GHz ~ 27GHz:



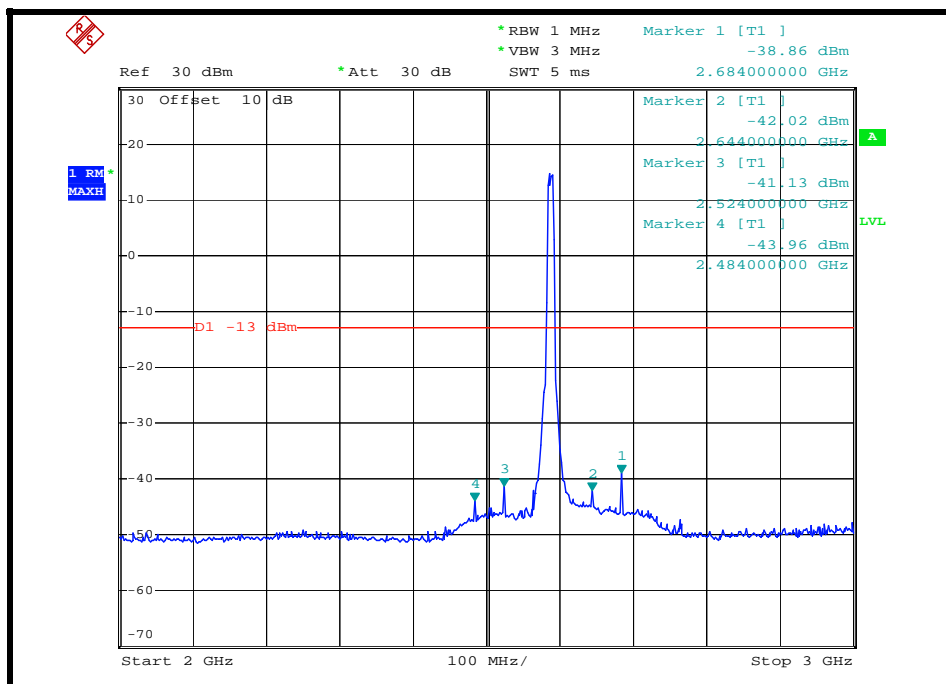
MIDDLE CHANNEL: 30MHz ~ 1GHz:



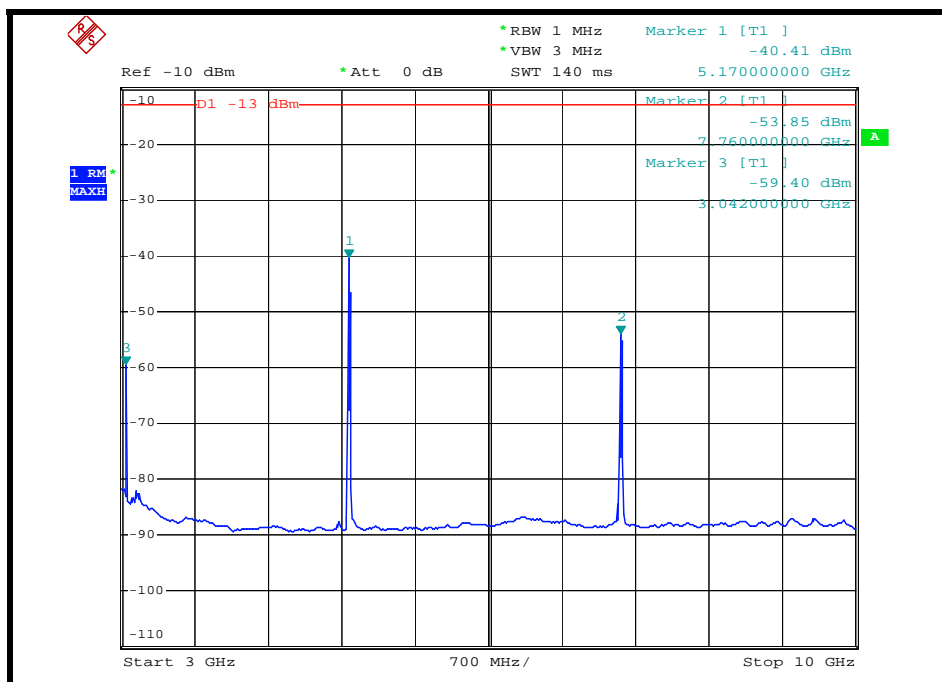
1GHz ~ 2GHz:



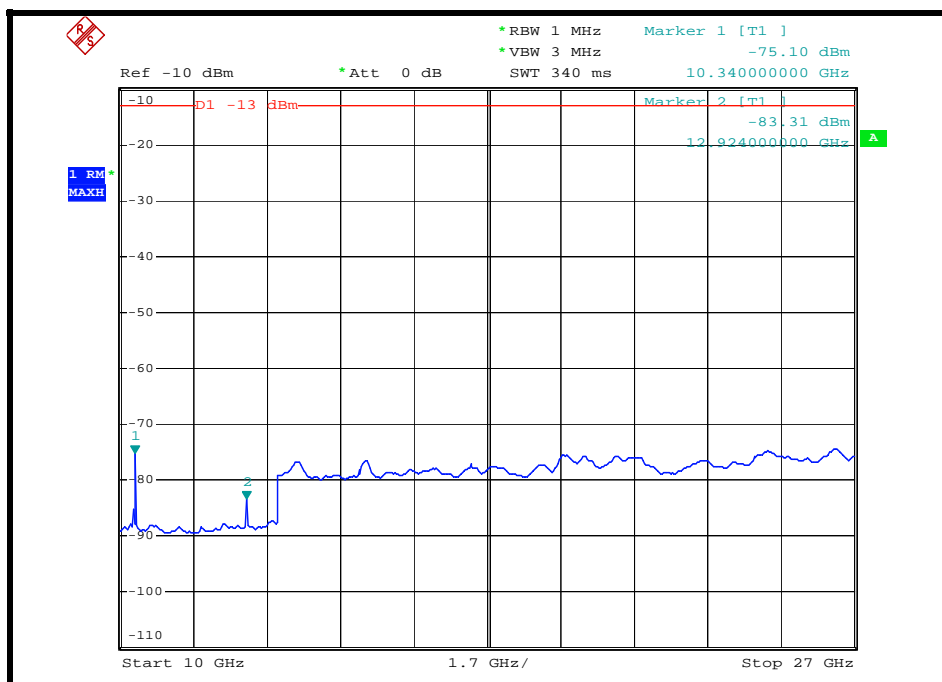
2GHz ~ 3GHz:



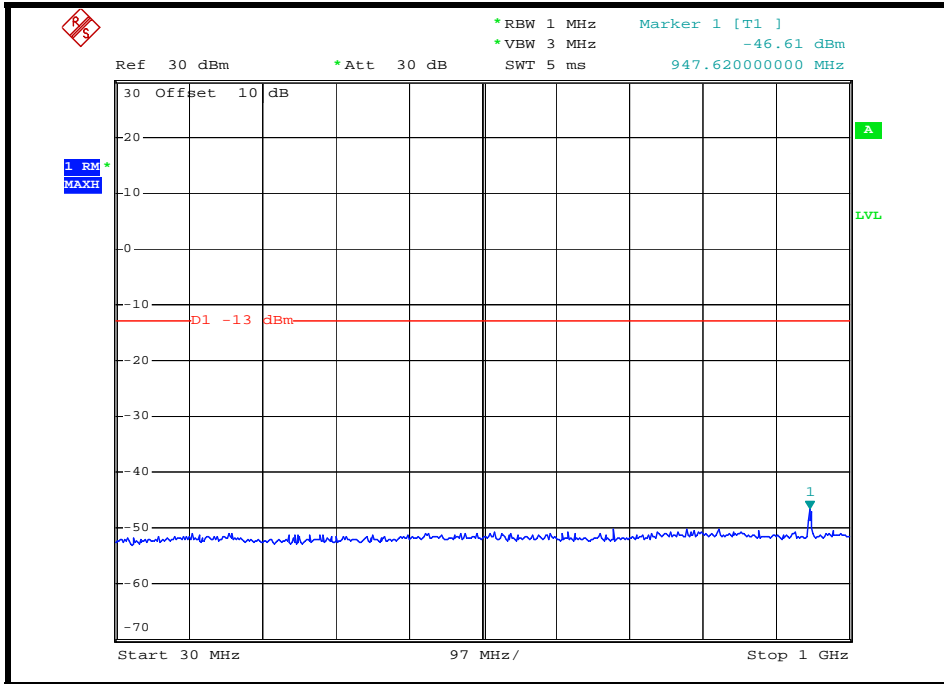
3GHz ~ 10GHz:



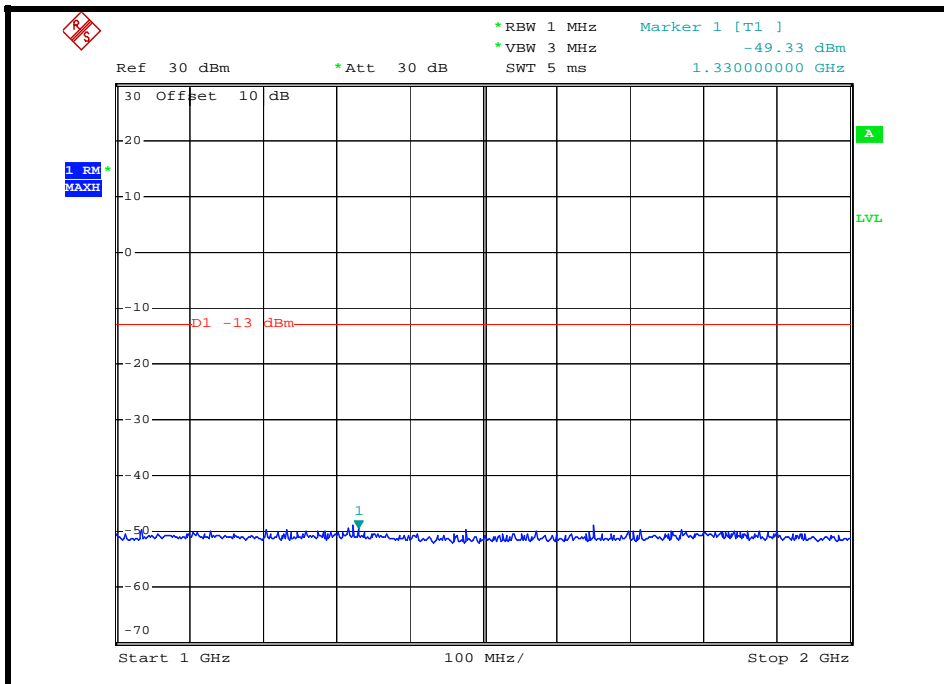
10GHz ~ 27GHz:



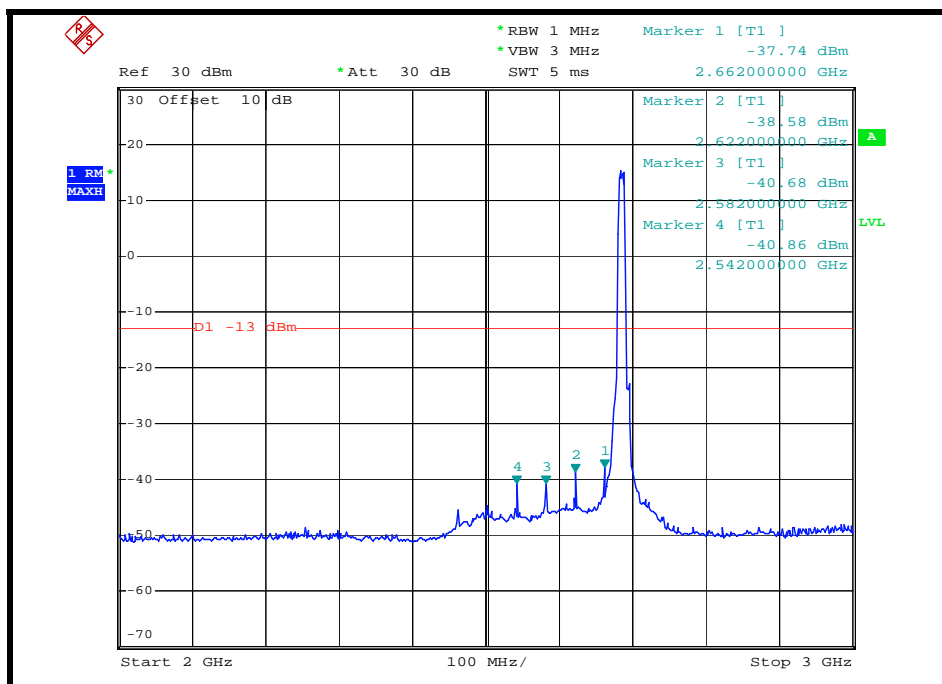
HIGH CHANNEL: 30MHz ~ 1GHz:



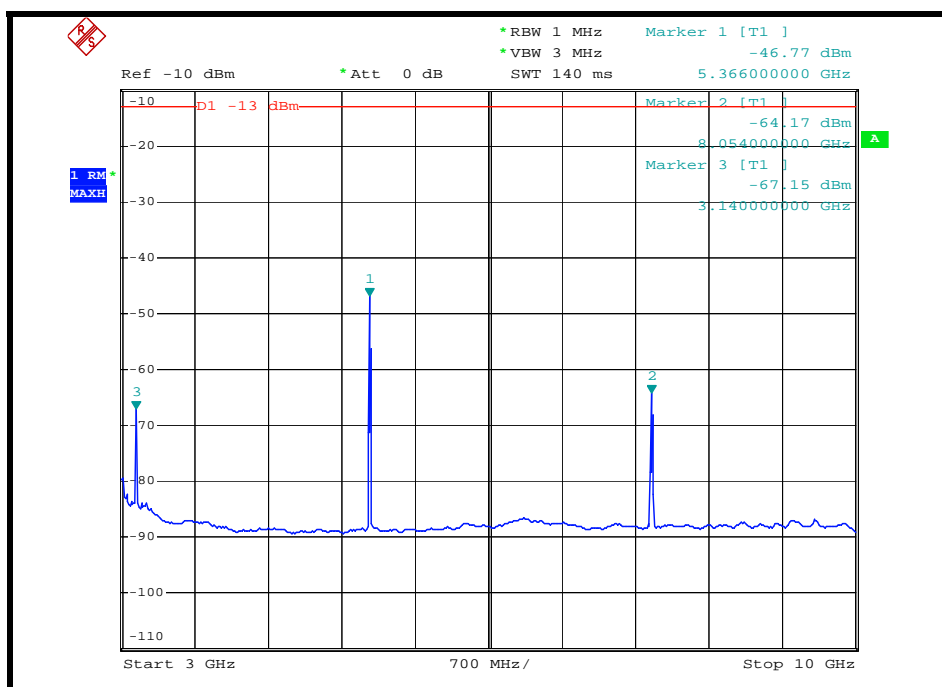
1GHz ~ 2GHz:



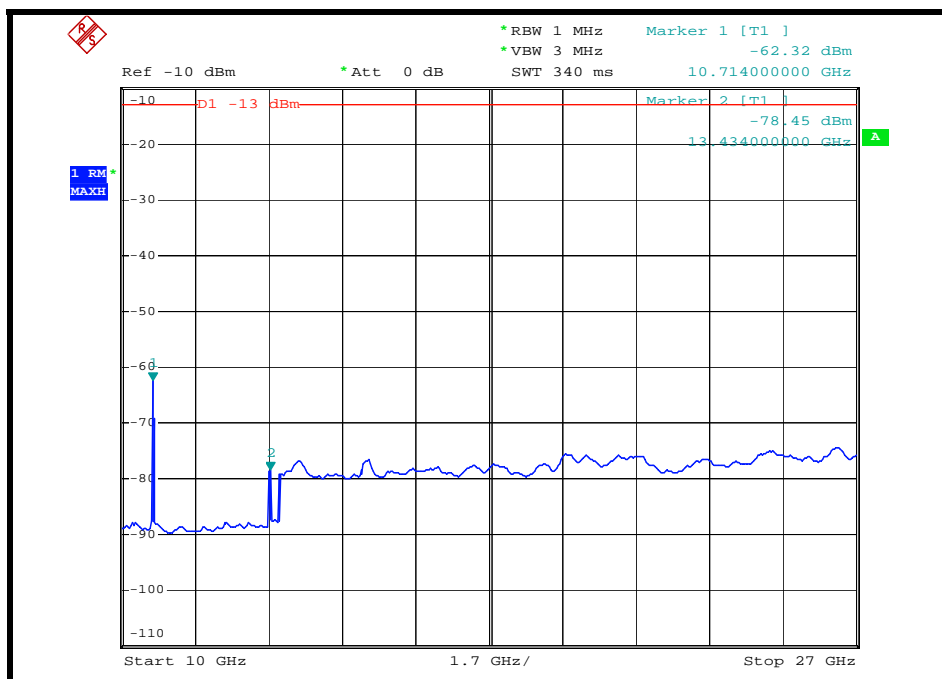
2GHz ~ 3GHz:



3GHz ~ 10GHz:



10GHz ~ 27GHz:





4.6 RADIATED EMISSION MEASUREMENT (BELOW 1GHz)

4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

In the FCC 27.53(l) (4), On any frequency outside a licensee's frequency block the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The specified minimum attenuation becomes 43dB and the limit of emission equal to -13 dBm.



4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	May 22, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Oct. 05, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May 31, 2007
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 27, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 28, 2007
Preamplifier Agilent	8447D	2944A10633	Oct. 26, 2007
Preamplifier Agilent	8449B	3008A01964	Oct. 26, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238137/4	Dec. 11, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007
Software ADT.	ADT_Radiated_V7.6	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 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The VCCI Site Registration No. is R-237.
 5. The IC Site Registration No. is IC3789B-3.

4.6.3 TEST PROCEDURES

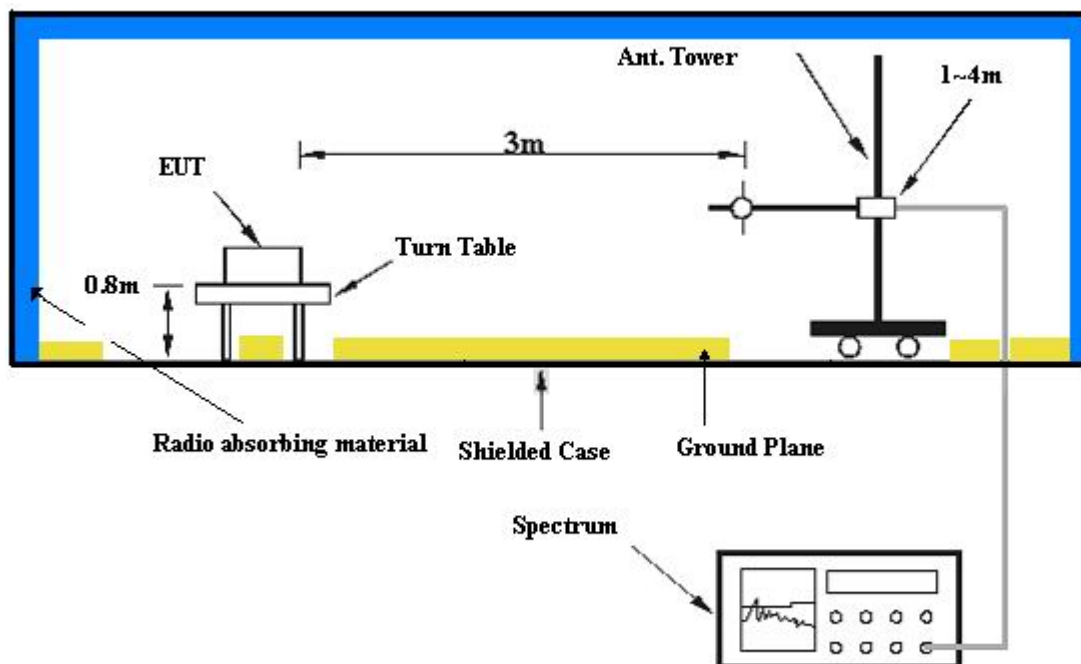
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8m above the ground.
- c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
- d. Repeat step a ~ c for horizontal polarization.

NOTE: The resolution bandwidth of spectrum analyzer is 1MHz and the video bandwidth is 3MHz.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



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

4.6.6 EUT OPERATING CONDITIONS

- a. Link up EUT with signal generator.
- b. The signal generator controlled EUT to export rated output power under transmission mode and specific channel frequency.



4.6.7 TEST RESULTS

MODE	Low channel	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH 991hPa
TEST MODE	A	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	90.26	51.08	-13.00	-38.00	-6.52	-44.52
2	319.64	52.30	-13.00	-38.20	-6.84	-45.04
3	358.52	48.15	-13.00	-42.90	-5.84	-48.74
4	490.77	48.70	-13.00	-42.80	-5.50	-48.30
5	795.89	54.53	-13.00	-36.90	-6.60	-43.50
6	805.61	53.84	-13.00	-37.30	-6.92	-44.22

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	230.22	46.93	-13.00	-41.70	-6.83	-48.53
2	461.54	45.98	-13.00	-44.70	-5.23	-49.93
3	492.65	48.08	-13.00	-40.90	-5.53	-46.43
4	799.98	50.04	-13.00	-40.30	-6.84	-47.14
5	817.27	47.34	-13.00	-42.80	-7.14	-49.94
6	896.97	48.10	-13.00	-41.60	-7.94	-49.54

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	Low channel	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH 991hPa
TEST MODE	B	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	319.64	47.88	-13.00	-38.40	-6.40	-44.80
2	360.46	49.82	-13.00	-37.20	-5.84	-43.04
3	399.34	47.99	-13.00	-41.10	-4.76	-45.86
4	442.10	47.53	-13.00	-40.20	-5.23	-45.43
5	479.04	56.10	-13.00	-35.80	-5.50	-41.30
6	797.84	53.00	-13.00	-36.20	-6.87	-43.07

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	224.39	45.57	-13.00	-40.30	-6.83	-47.13
2	360.46	45.42	-13.00	-41.60	-5.84	-47.44
3	479.04	58.94	-13.00	-33.10	-5.50	-38.60
4	640.38	43.81	-13.00	-42.90	-6.07	-48.97
5	805.61	51.84	-13.00	-37.80	-6.92	-44.72
6	877.54	48.37	-13.00	-40.80	-7.73	-48.53

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



4.7 RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

In the FCC 27.53(l) (4), On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The specified minimum attenuation becomes 43dB and the limit of emission equal to -13 dBm.

4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	May 22, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Oct. 05, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May 31, 2007
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 27, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 28, 2007
Preamplifier Agilent	8447D	2944A10633	Oct. 26, 2007
Preamplifier Agilent	8449B	3008A01964	Oct. 26, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238137/4	Dec. 11, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007
Software ADT.	ADT_Radiated_V7.6	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
SIGNAL GENERATOR AGILENT	E8257C	MY43320668	Dec. 28, 2007

- 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 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The VCCI Site Registration No. is R-237.
 5. The IC Site Registration No. is IC3789B-3.

4.7.3 TEST PROCEDURES

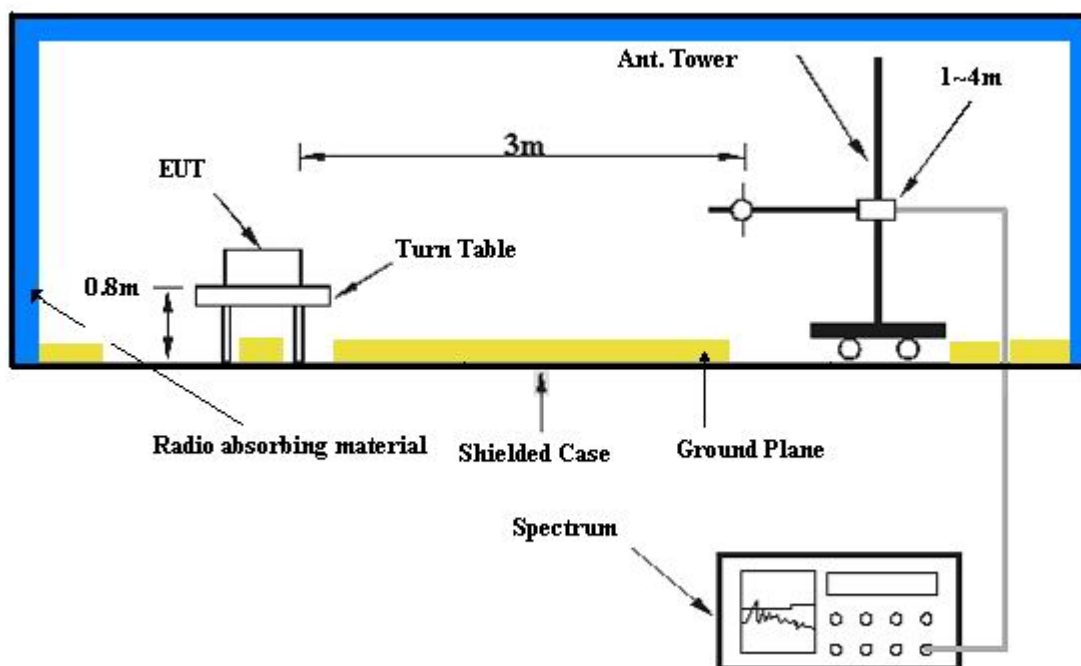
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
- c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
- d. The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission.
- e. The signal generator level has to be adjusted to have the same emission nature.
- f. The radiated power can be calculated via the factor and antenna gain.
- g. Repeat step a ~ f for horizontal polarization.

NOTE: The resolution bandwidth of spectrum analyzer is 1MHz and the video bandwidth is 3MHz.

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 EUT OPERATING CONDITIONS

- a. Link up EUT with signal generator.
- b. The signal generator controlled EUT to export rated output power under transmission mode and specific channel frequency.



4.7.7 TEST RESULTS

MODE	Low channel	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH, 991hPa
TEST MODE	A	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2484.00	58.71	-13.00	-42.50	8.24	-34.26
2	2564.00	58.53	-13.00	-42.10	8.22	-33.88
3	2604.00	59.54	-13.00	-45.20	8.20	-37.00
4	2684.00	59.98	-13.00	-45.60	8.16	-37.44
5	2724.00	58.99	-13.00	-42.80	8.56	-34.24
6	2964.00	54.10	-13.00	-47.40	8.96	-38.44
7	5017.00	54.98	-13.00	-47.10	9.00	-38.10
8	7525.50	59.93	-13.00	-42.10	5.45	-36.65
9	10034.00	55.09	-13.00	-43.20	5.83	-37.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2484.00	63.93	-13.00	-42.20	8.24	-33.96
2	2564.00	62.93	-13.00	-43.30	8.22	-35.08
3	2604.00	64.69	-13.00	-41.60	8.20	-33.40
4	2684.00	63.15	-13.00	-42.10	8.16	-33.94
5	2724.00	60.91	-13.00	-45.10	8.56	-36.54
6	2964.00	60.53	-13.00	-42.50	8.96	-33.54
7	5017.00	59.48	-13.00	-42.80	9.00	-33.80
8	7525.50	60.96	-13.00	-42.60	5.45	-37.15
9	10034.00	57.10	-13.00	-46.00	5.83	-40.17

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	Middle channel	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH, 991hPa
TEST MODE	A	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2483.00	59.39	-13.00	-42.20	8.20	-34.00
2	2523.00	59.21	-13.00	-42.80	8.20	-34.60
3	2563.00	58.32	-13.00	-43.50	8.15	-35.35
4	2643.00	60.09	-13.00	-41.80	8.13	-33.67
5	2683.00	61.42	-13.00	-43.80	8.09	-35.71
6	3043.00	52.59	-13.00	-49.00	8.89	-40.11
7	5175.00	59.47	-13.00	-42.50	8.87	-33.63
8	7762.50	59.97	-13.00	-43.20	5.29	-37.91
9	10350.00	56.36	-13.00	-46.30	5.66	-40.64

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2483.00	61.91	-13.00	-43.20	8.20	-35.00
2	2523.00	65.10	-13.00	-41.10	8.20	-32.90
3	2563.00	64.21	-13.00	-41.80	8.15	-33.65
4	2643.00	64.78	-13.00	-41.30	8.13	-33.17
5	2683.00	64.99	-13.00	-40.90	8.09	-32.81
6	3043.00	59.44	-13.00	-44.00	8.89	-35.11
7	5175.00	62.28	-13.00	-39.20	8.87	-30.33
8	7762.50	62.75	-13.00	-39.90	5.29	-34.61
9	10350.00	59.50	-13.00	-39.50	5.66	-33.84

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	High channel	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH, 991hPa
TEST MODE	A	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2541.00	58.23	-13.00	-43.60	8.20	-35.40
2	2581.00	60.17	-13.00	-42.10	8.15	-33.95
3	2621.00	59.71	-13.00	-41.30	8.15	-33.15
4	2661.00	58.36	-13.00	-43.20	8.12	-35.08
5	3141.00	52.26	-13.00	-54.00	8.81	-45.19
6	5370.00	57.51	-13.00	-44.20	8.80	-35.40
7	8055.00	60.72	-13.00	-42.10	5.24	-36.86
8	10740.00	60.47	-13.00	-37.50	5.74	-31.76

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2541.00	63.99	-13.00	-42.20	8.20	-34.00
2	2581.00	64.94	-13.00	-41.30	8.15	-33.15
3	2621.00	66.58	-13.00	-39.20	8.15	-31.05
4	2661.00	63.73	-13.00	-42.50	8.12	-34.38
5	3141.00	53.78	-13.00	-48.50	8.81	-39.69
6	5370.00	63.04	-13.00	-38.20	8.80	-29.40
7	8055.00	61.97	-13.00	-41.20	5.24	-35.96
8	10740.00	66.21	-13.00	-33.00	5.74	-27.26

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	Low channel	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH, 991hPa
TEST MODE	B	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2053.00	52.44	-13.00	-48.60	8.01	-40.59
2	2564.00	58.63	-13.00	-42.00	8.22	-33.78
3	2604.00	61.87	-13.00	-39.20	8.20	-31.00
4	2684.00	61.05	-13.00	-40.10	8.16	-31.94
5	2694.00	62.86	-13.00	-38.20	8.56	-29.64
6	5017.00	56.93	-13.00	-49.80	8.96	-40.84
7	7525.50	48.56	-13.00	-54.10	9.00	-45.10
8	10034.00	52.20	-13.00	-47.20	5.45	-41.75

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2053.00	54.74	-13.00	-45.90	8.01	-37.89
2	2564.00	63.82	-13.00	-37.10	8.22	-28.88
3	2604.00	67.59	-13.00	-36.20	8.20	-28.00
4	2684.00	64.86	-13.00	-36.80	8.16	-28.64
5	2964.00	67.58	-13.00	-36.90	8.96	-27.94
6	5017.00	62.99	-13.00	-43.50	9.00	-34.50
7	7525.50	54.44	-13.00	-45.10	5.45	-39.65
8	10034.00	52.83	-13.00	-46.90	5.83	-41.07

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	Middle channel	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH, 991hPa
TEST MODE	B	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2483.00	57.96	-13.00	-43.80	8.20	-35.60
2	2524.00	57.69	-13.00	-43.20	8.20	-35.00
3	2564.00	61.24	-13.00	-40.10	8.15	-31.95
4	2644.00	59.58	-13.00	-42.10	8.13	-33.97
5	2684.00	62.10	-13.00	-39.20	8.09	-31.11
6	3044.00	57.69	-13.00	-43.90	8.89	-35.01
7	5175.00	59.45	-13.00	-45.90	8.87	-37.03
8	7762.50	50.39	-13.00	-48.90	5.29	-43.61
9	10350.00	52.32	-13.00	-47.30	5.66	-41.64

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2483.00	62.00	-13.00	-40.10	8.20	-31.90
2	2524.00	62.41	-13.00	-38.60	8.20	-30.40
3	2564.00	65.66	-13.00	-36.10	8.15	-27.95
4	2644.00	64.14	-13.00	-37.30	8.13	-29.17
5	2684.00	67.77	-13.00	-35.20	8.09	-27.11
6	3044.00	61.00	-13.00	-40.30	8.89	-31.41
7	5175.00	63.14	-13.00	-42.20	8.87	-33.33
8	7762.50	53.78	-13.00	-44.30	5.29	-39.01
9	10350.00	55.28	-13.00	-42.70	5.66	-37.04

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	High channel	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg°C, 69%RH, 991hPa
TEST MODE	B	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2461.00	55.26	-13.00	-47.10	8.21	-38.89
2	2541.00	59.79	-13.00	-42.20	8.20	-34.00
3	2581.00	49.29	-13.00	-51.20	8.15	-43.05
4	2621.00	60.46	-13.00	-40.50	8.15	-32.35
5	2661.00	59.94	-13.00	-41.30	8.12	-33.18
6	2721.00	53.96	-13.00	-48.50	8.49	-40.01
7	2741.00	54.78	-13.00	-47.10	8.49	-38.61
8	3141.00	49.15	-13.00	-52.30	8.81	-43.49
9	5370.00	58.51	-13.00	-43.80	8.80	-35.00
10	8055.00	50.63	-13.00	-47.60	5.24	-42.36
11	10740.00	53.93	-13.00	-45.20	5.74	-39.46
12	13425.00	61.26	-13.00	-42.90	6.69	-36.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	2461.00	58.86	-13.00	-42.80	8.21	-34.59
2	2541.00	64.06	-13.00	-38.20	8.20	-30.00
3	2581.00	63.51	-13.00	-40.90	8.15	-32.75
4	2621.00	66.12	-13.00	-38.80	8.15	-30.65
5	2661.00	64.70	-13.00	-39.90	8.12	-31.78
6	2721.00	58.65	-13.00	-44.00	8.49	-35.51
7	2741.00	59.17	-13.00	-42.20	8.48	-33.72
8	3141.00	53.63	-13.00	-48.30	8.81	-39.49
9	5370.00	59.50	-13.00	-42.80	8.80	-34.00
10	8055.00	52.64	-13.00	-46.10	5.24	-40.86
11	10740.00	58.96	-13.00	-40.20	5.74	-34.46
12	13425.00	68.23	-13.00	-33.50	6.69	-26.81

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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.

USA	FCC, UL, A2LA
GERMANY	TUV Rheinland
JAPAN	VCCI
NORWAY	NEMKO
CANADA	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, NCC
NETHERLANDS	Telefication
SINGAPORE	PSB , GOST-ASIA (MOU)
RUSSIA	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. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

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Hwa Ya EMC/RF/Safety/Telecom Lab: Web Site: www.adt.com.tw

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