



**FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E  
&  
INDUSTRY CANADA RSS-132 & RSS-133**

**TEST REPORT**

**For**

**Module**

**Trade Name: AirPrime**

**Model: HL8548, HL8548-G**

*Issued to*

**Sierra Wireless Inc.  
13811 Wireless Way  
Richmond, BC, V6V 3A4  
Canada**

*Issued by*

**Compliance Certification Services Inc.  
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Issued Date: August 25, 2014**



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**Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 25, 2014	Initial Issue	ALL	Doris Chu



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# 1. TEST RESULT CERTIFICATION

**Applicant:** Sierra Wireless Inc.  
13811 Wireless Way  
Richmond, BC, V6V 3A4  
Canada

**Manufacturer:** Sierra Wireless Inc.  
13811 Wireless Way  
Richmond, BC, V6V 3A4  
Canada

**Equipment under Test:** Module

**Trade Name:** AirPrime

**Model Number:** HL8548, HL8548-G

**Date of Test:** August 15 ~ 20, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E & IC RSS-132 Issue 3: January, 2013 and IC RSS-133 Issue 6: January, 2013	No non-compliance noted

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rule FCC PART 22 Subpart H, PART 24 Subpart E, IC RSS-132 Issue 3 and IC RSS-133 Issue 6.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Reviewed by:

Miller Lee  
Section Manager  
Compliance Certification Services Inc.

Angel Cheng  
Section Manager  
Compliance Certification Services Inc.



## 2. EUT DESCRIPTION

<b>Product</b>	Module	
<b>Trade Name</b>	AirPrime	
<b>Model Number</b>	HL8548, HL8548-G	
<b>Model Discrepancy</b>	<b>Model Number</b>	<b>Difference</b>
	HL8548	does not support AGPS
	HL8548-G	supports AGPS
<b>Received Date</b>	July 16, 2014	
<b>Power Supply</b>	Power form host device	
<b>Frequency Range</b>	GSM / GPRS / EDGE: 850: 824.2 ~ 848.8 MHz GSM / GPRS / EDGE: 1900: 1850.2 ~ 1909.8 MHz WCDMA / HSDPA / HSUPA Band II: 1852.4 ~ 1907.6 MHz WCDMA / HSDPA / HSUPA Band V: 826.4 ~ 846.6MHz	
<b>Cellular Phone Protocol</b>	GSM: GMSK GPRS: GMSK EDGE: 8PSK WCDMA: Quadrature Phase Shift Keying (QPSK) with Root-raised cosine pulse shaping filters (roll off = 0.22)	
<b>Antenna Gain</b>	GSM / GPRS / EDGE 850MHz: 1dBi GSM / GPRS / EDGE: 1900MHz: 2dBi WCDMA Band II: 2dBi WCDMA Band V: 1dBi	
<b>Antenna Type</b>	Dipole Antenna	

**Remark:** The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.



<b>Mode</b>	<b>ERP Power (dBm)</b>	<b>Type of Emission</b>
<b>GSM 850MHz</b>	27.29	240GXW
<b>GPRS 850MHz</b>	25.23	245GXW
<b>EDGE 850MHz</b>	25.24	243G7W
<b>WCDMA Band V</b>	21.37	4M06F9W
<b>WCDMA HSDPA Band V</b>	21.51	4M05F9W
<b>WCDMA HSUPA Band V</b>	21.37	4M06F9W

<b>Mode</b>	<b>ERP Power (dBm)</b>	<b>Type of Emission</b>
<b>GSM 1900MHz</b>	29.57	248GXW
<b>GPRS 1900MHz</b>	28.68	247GXW
<b>EDGE 1900MHz</b>	28.64	245G7W
<b>WCDMA Band II</b>	25.38	4M06F9W
<b>WCDMA HSDPA Band II</b>	25.83	4M06F9W
<b>WCDMA HSUPA Band II</b>	26.03	4M06F9W



### **3. TEST METHODOLOGY**

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2009, TIA/EIA-603-C: 2004 and FCC CFR 47, Part 2 and Part 22 Subpart H & Part 24 Subpart E.

The tests documented in this report were performed in accordance with IC RSS-132, SPSR503, RSS-133, SPSR510 and ANSI C63.4 and TIA/EIA-603-C.

#### **3.1 EUT CONFIGURATION**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### **3.2 EUT EXERCISE**

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

#### **3.3 GENERAL TEST PROCEDURES**

##### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009.



### **3.4 DESCRIPTION OF TEST MODES**

The EUT (model: HL8548-G) had been tested under operating condition.

EUT staying in continuous transmitting mode was programmed.

After verification, all tests carried out are with the worst-case test modes as shown below except radiated spurious emission below 1GHz which worst case was in normal link mode.

GSM / GPRS / EDGE 850MHz:

Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM / GPRS / EDGE 1900MHz:

Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.

WCDMA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSDPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSUPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.





## 4. INSTRUMENT CALIBRATION

### 4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### 4.2 MEASUREMENT EQUIPMENT USED

#### Equipment Used for Emissions Measurement

*Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.*

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/19/2015
Power Meter	Anritsu	ML2495A	1012009	06/03/2015
Power Sensor	Anritsu	MA2411A	0917072	06/03/2015

3M Semi Anechoic Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510268	11/05/2014
EMI Test Receiver	R&S	ESCI	100064	02/16/2015
Pre-Amplifier	Mini-Circuits	ZFL-1000LN	SF350700823	01/11/2015
Bilog Antenna	Sunol Sciences	JB3	A030105	02/16/2015
Bilog Antenna	Sunol Sciences	JB3	A030205	10/01/2014
Horn Antenna	EMCO	3117	00055165	02/16/2015
Horn Antenna	EMCO	3117	00055167	01/27/2015
Horn Antenna	EMCO	3116	26370	01/06/2015
Loop Antenna	EMCO	6502	8905/2356	06/11/2015
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Site NSA	CCS	N/A	N/A	12/21/2014
Test S/W	EZ-EMC (CCS-3A1RE)			



### 4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

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



## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.  
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)  
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN,  
R.O.C.  
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4: 2009 and CISPR Publication 22.

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.




All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 0824-01 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC 2324G-1 for 3M Semi Anechoic Chamber A, 2324G-2 for 3M Semi Anechoic Chamber B.



### 5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	 FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

*\* No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*



## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

### 6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
	N/A						

**Remark:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



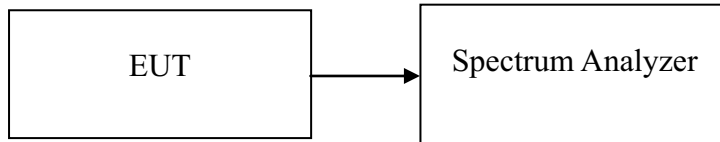
## 7. FCC PART 22 & 24 REQUIREMENTS & INDUSTRY CANADA RSS-132 & RSS-133

### 7.199% BANDWIDTH

#### LIMIT

None; for reporting purposes only.

#### Test Configuration



#### TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled.

#### TEST RESULTS

*No non-compliance noted.*



**Test Data**

Test Mode	CH	Frequency (MHz)	99% Bandwidth (kHz)
GSM 850 (Class 12)	128	824.200	<b>*240.1221</b>
	190	836.400	239.0974
	251	848.800	239.3524
GPRS 850 (Class 12)	128	824.200	<b>*245.7353</b>
	190	836.400	240.1513
	251	848.800	244.8783
EDGE 850 (Class 12)	128	824.200	<b>*243.9368</b>
	190	836.570	242.2592
	251	848.800	243.0219
GSM 1900 (Class 12)	512	1850.210	245.9988
	661	1880.000	242.8548
	810	1909.823	<b>*248.9209</b>
GPRS 1900 (Class 12)	512	1850.210	245.3575
	661	1880.000	<b>*247.0079</b>
	810	1909.823	246.6571
EDGE 1900 (Class 12)	512	1850.173	241.5077
	661	1880.000	<b>*245.9471</b>
	810	1909.800	244.5472



Test Mode	CH	Frequency (MHz)	99% Bandwidth (MHz)
WCDMA (Band II)	9262	1852.40	4.0527
	9400	1880.00	4.0622
	9538	1907.60	<b>*4.0629</b>
WCDMA (Band V)	4132	826.40	4.0526
	4182	836.40	4.0600
	4233	846.60	<b>*4.0621</b>
WCDMA / HSDPA (BAND II)	9262	1852.40	4.0559
	9400	1880.00	4.0585
	9538	1907.60	<b>*4.0638</b>
WCDMA / HSDPA (BAND V)	4132	826.40	<b>*4.0549</b>
	4182	836.40	4.0541
	4233	846.60	4.0521
WCDMA / HSUPA (BAND II)	9262	1852.40	4.0552
	9400	1880.00	4.0550
	9538	1907.60	<b>*4.0663</b>
WCDMA / HSUPA (BAND V)	4132	826.40	4.0291
	4182	836.40	<b>*4.0641</b>
	4233	846.60	4.0499



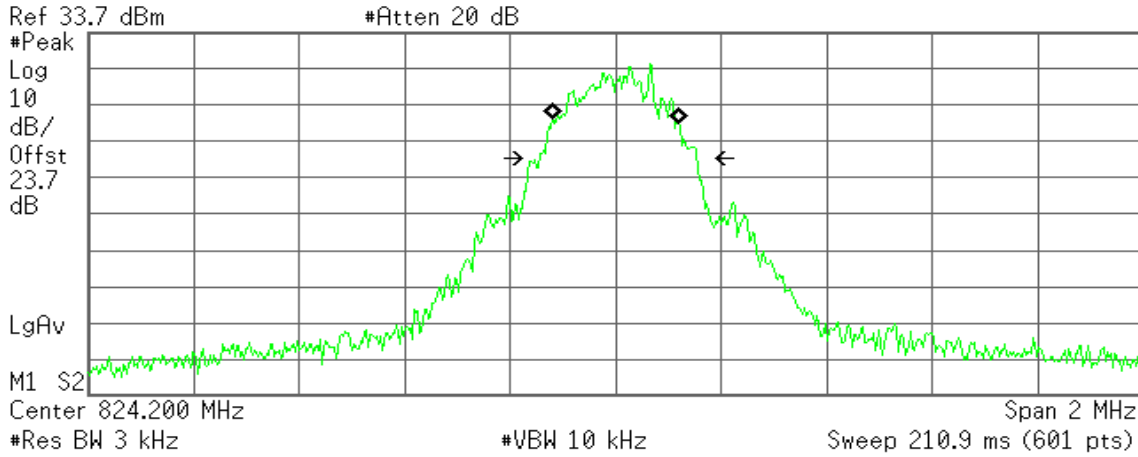


**Test Plot**

**GSM 850 (CH Low)**

Agilent

R T



**Occupied Bandwidth**  
240.1221 kHz

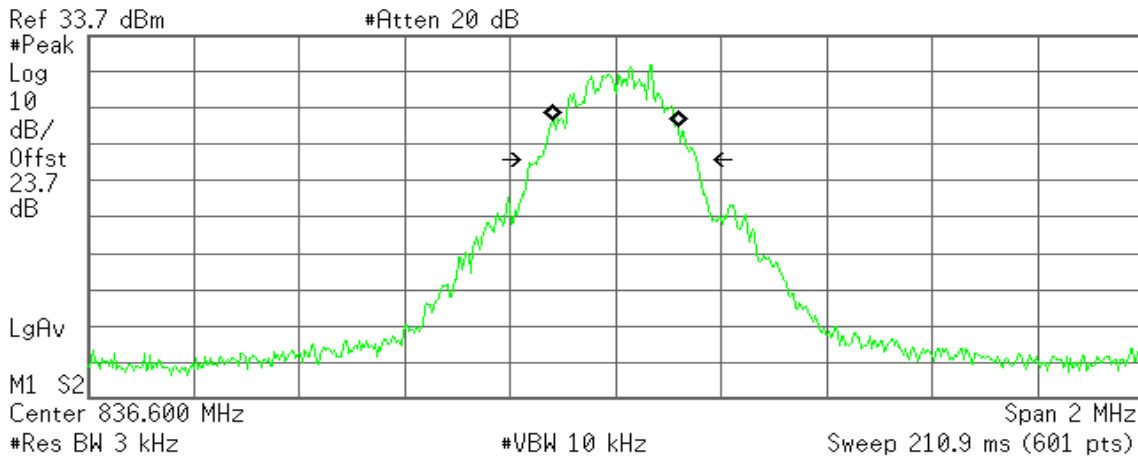
**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -664.291 Hz  
**x dB Bandwidth** 299.738 kHz

**GSM 850 (CH Mid)**

Agilent

R T



**Occupied Bandwidth**  
239.0974 kHz

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

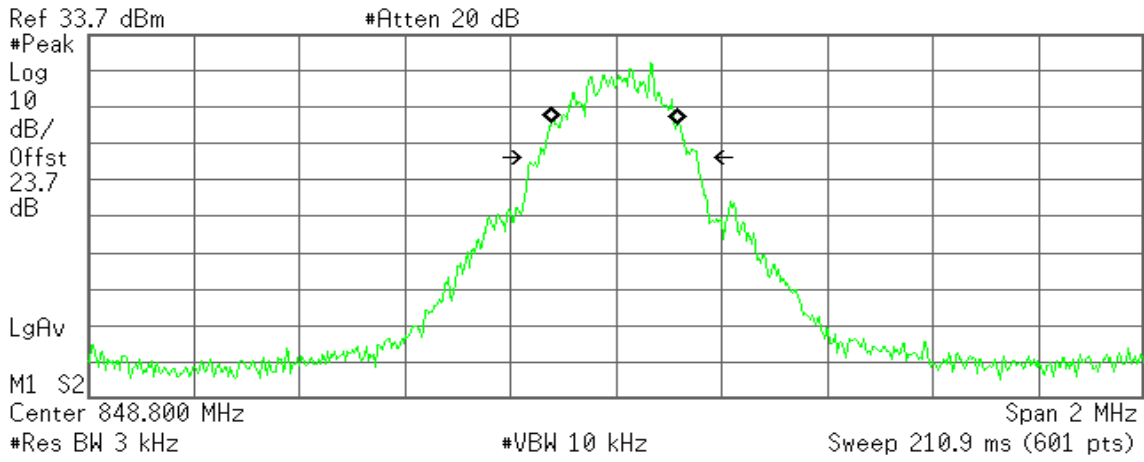
**Transmit Freq Error** -746.449 Hz  
**x dB Bandwidth** 301.665 kHz



### GSM 850 (CH High)

Agilent

R T



Occupied Bandwidth  
239.3524 kHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

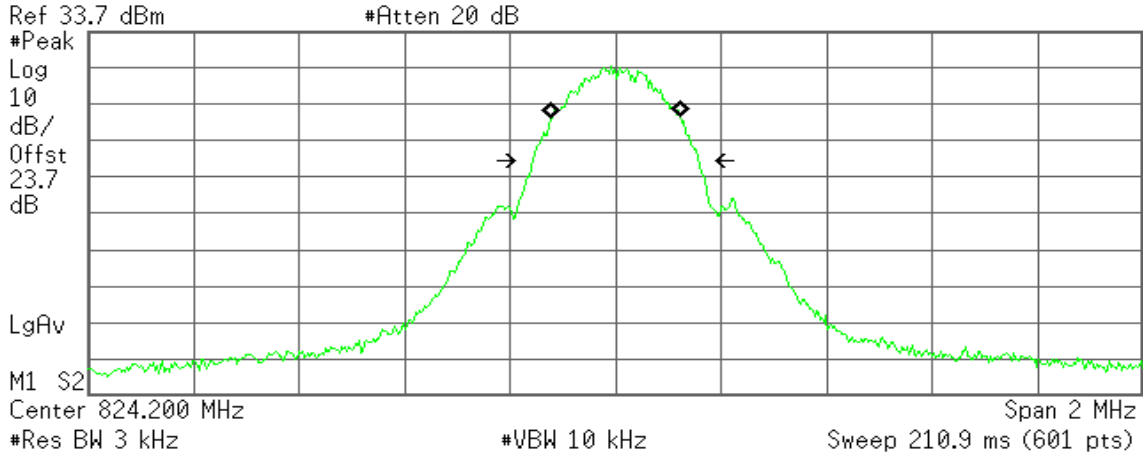
Transmit Freq Error -2.131 kHz  
x dB Bandwidth 300.985 kHz



### GPRS 850 (CH Low)

Agilent

R T



Occupied Bandwidth  
245.7353 kHz

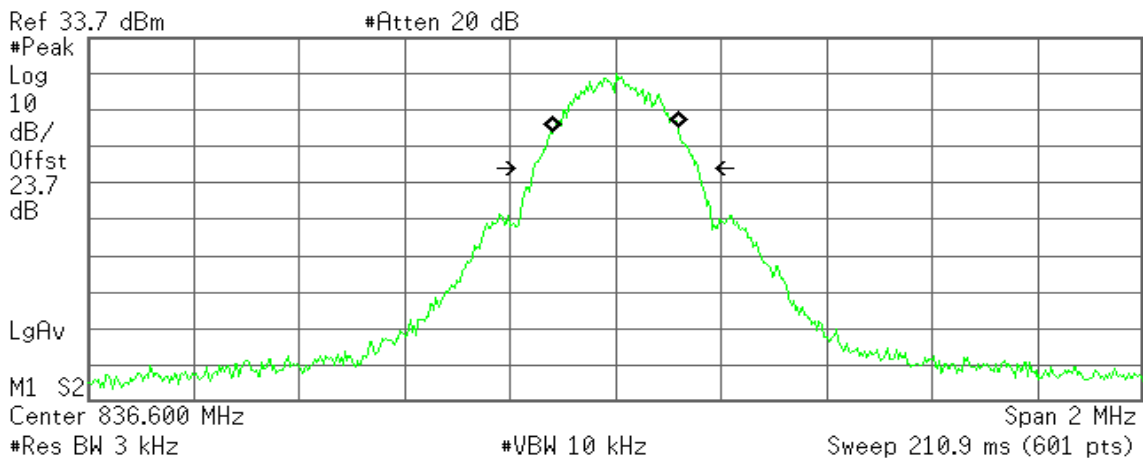
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 1.009 kHz  
x dB Bandwidth 316.122 kHz

### GPRS 850 (CH Mid)

Agilent

R T



Occupied Bandwidth  
240.1513 kHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

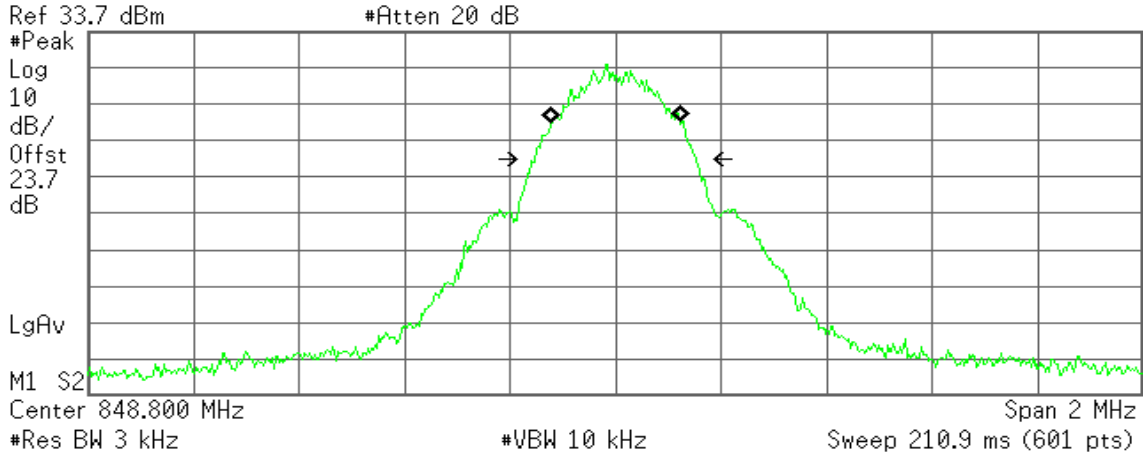
Transmit Freq Error -620.538 Hz  
x dB Bandwidth 312.137 kHz



### GPRS 850(CH High)

Agilent

R T



**Occupied Bandwidth**  
**244.8783 kHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

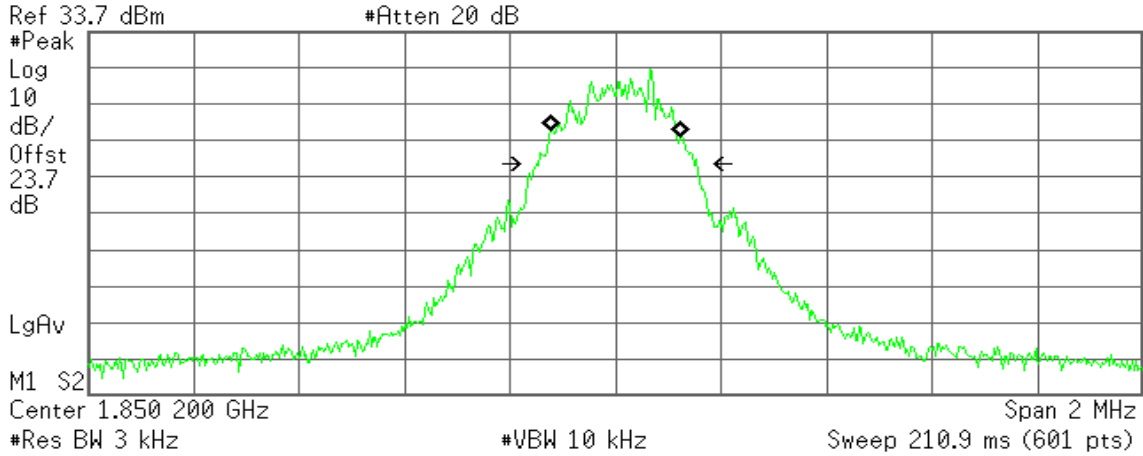
**Transmit Freq Error** -289.491 Hz  
**x dB Bandwidth** 305.565 kHz



### GSM 1900 (CH Low)

Agilent

R T



Occupied Bandwidth  
245.9988 kHz

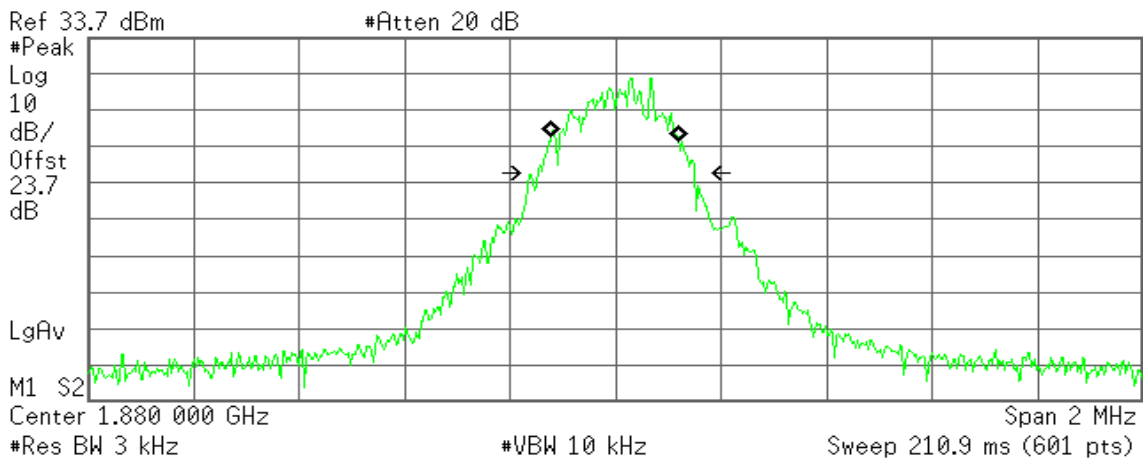
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 574.462 Hz  
x dB Bandwidth 301.499 kHz

### GSM 1900 (CH Mid)

Agilent

R T



Occupied Bandwidth  
242.8548 kHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

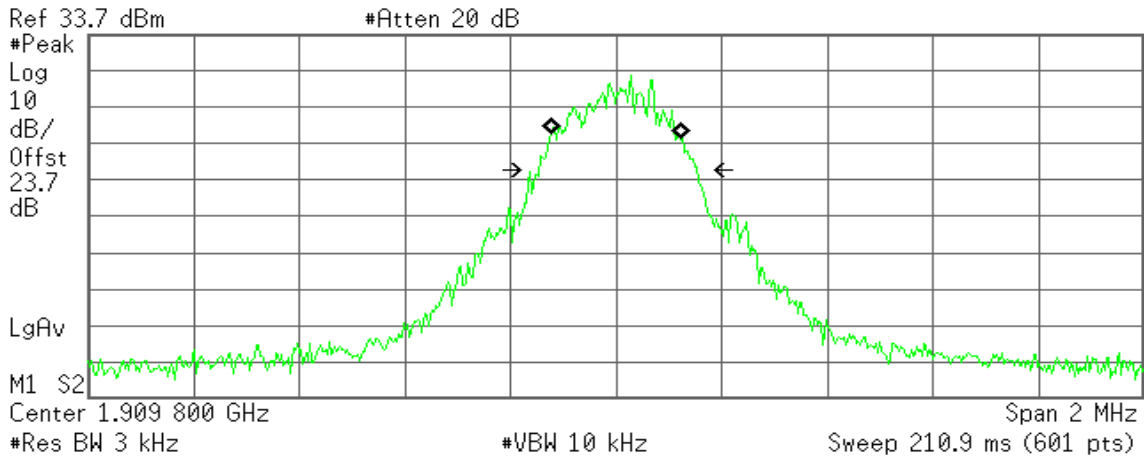
Transmit Freq Error -247.363 Hz  
x dB Bandwidth 299.383 kHz



### GSM 1900 (CH High)

Agilent

R T



Occupied Bandwidth  
248.9209 kHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

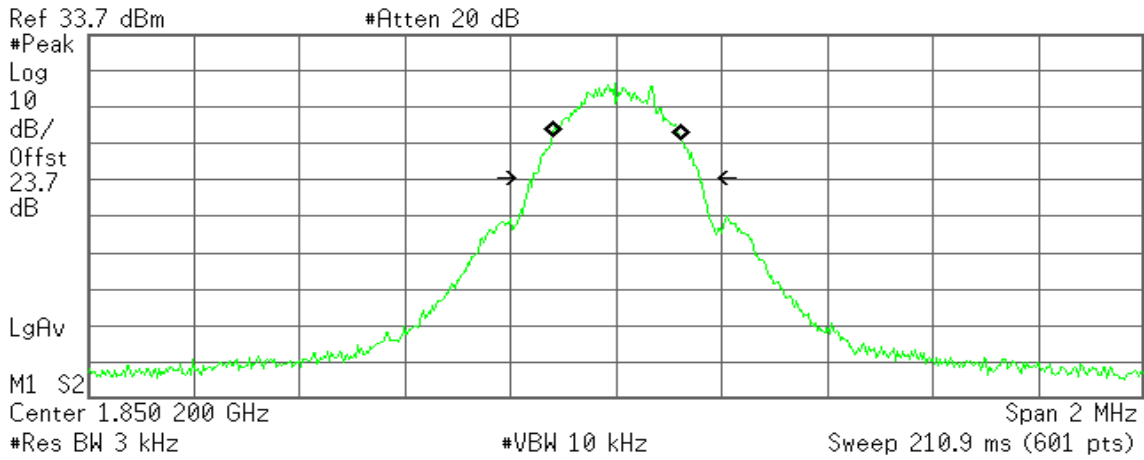
Transmit Freq Error 382.491 Hz  
x dB Bandwidth 300.389 kHz



### GPRS 1900 (CH Low)

Agilent

R T



**Occupied Bandwidth**  
245.3575 kHz

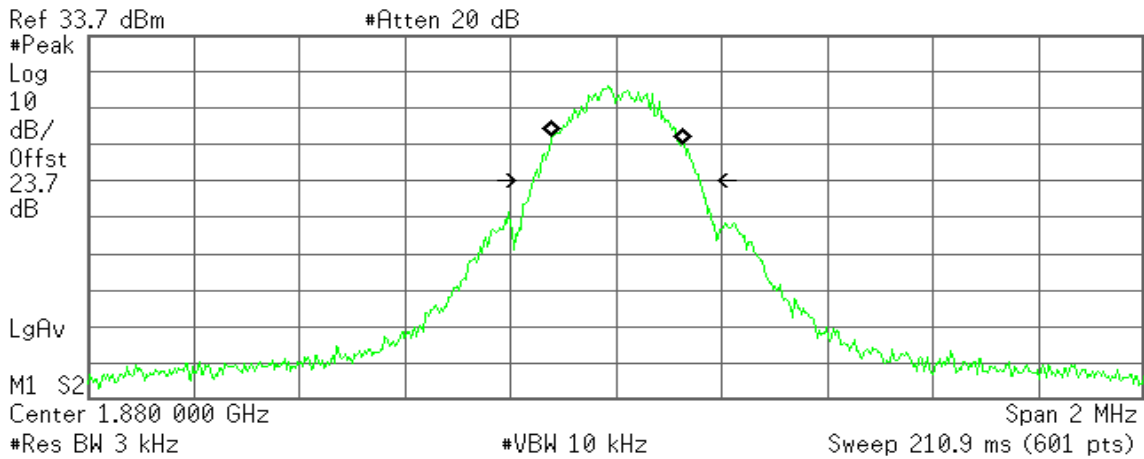
**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** 1.428 kHz  
**x dB Bandwidth** 317.278 kHz

### GPRS 1900 (CH Mid)

Agilent

R T



**Occupied Bandwidth**  
247.0079 kHz

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

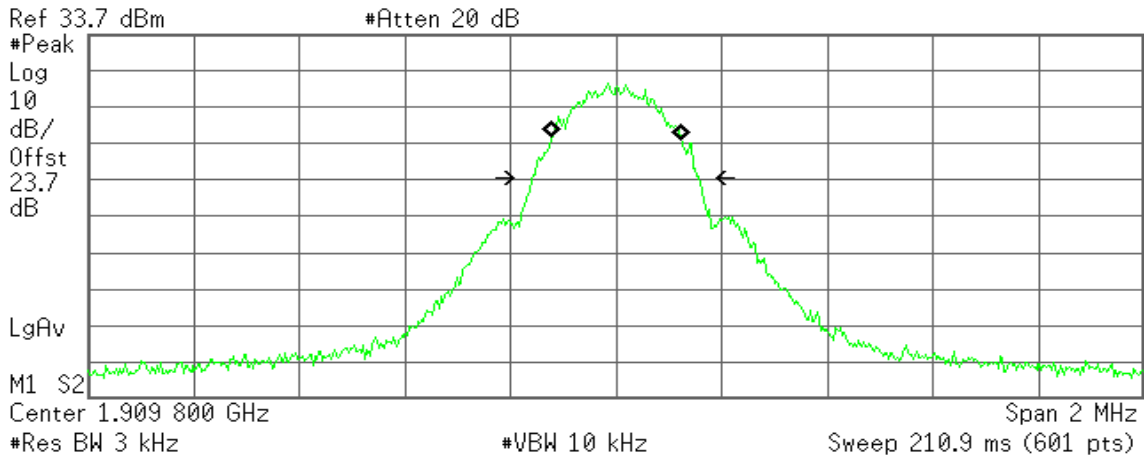
**Transmit Freq Error** 1.747 kHz  
**x dB Bandwidth** 316.327 kHz



### GPRS 1900 (CH High)

Agilent

R T



**Occupied Bandwidth**  
246.6571 kHz

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** 1.183 kHz  
**x dB Bandwidth** 317.969 kHz

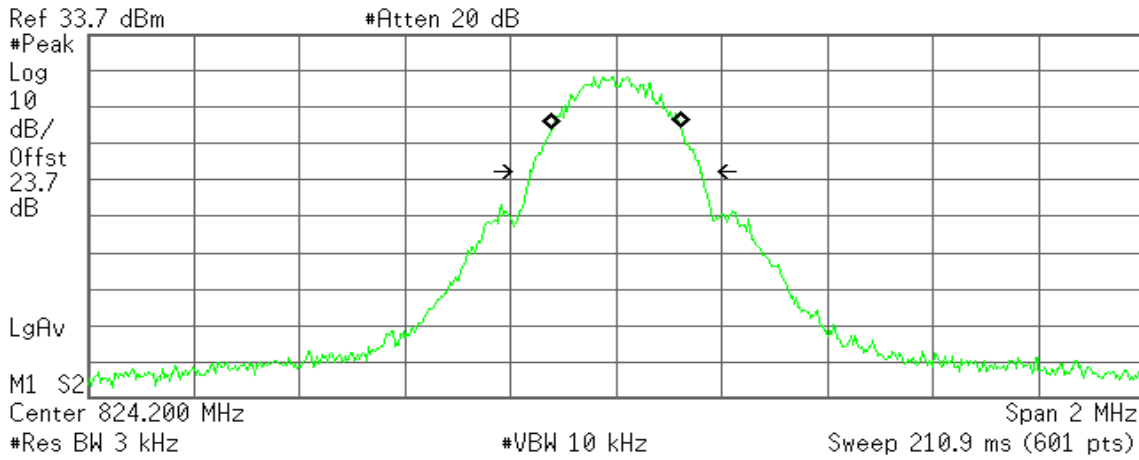




### EDGE 850 (CH Low)

Agilent

R T



Occupied Bandwidth  
243.9368 kHz

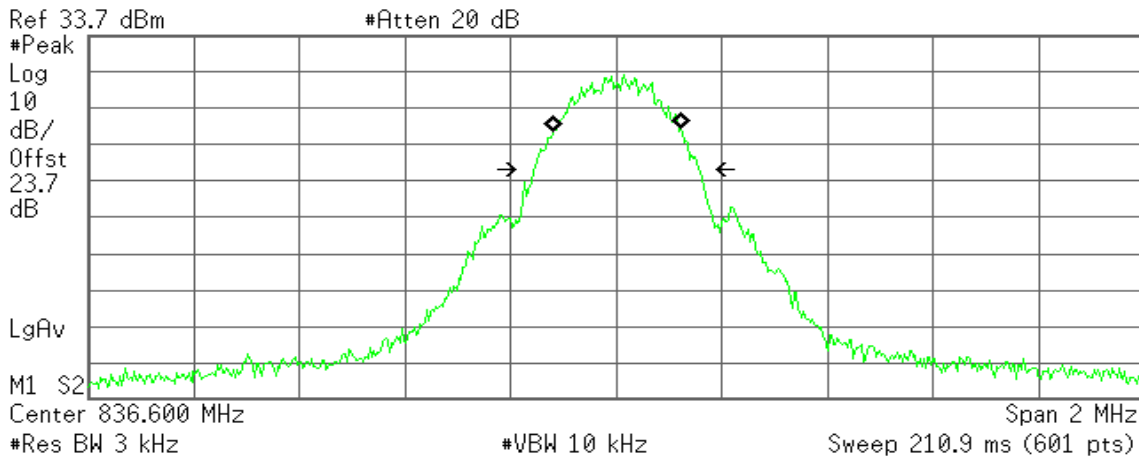
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 203.773 Hz  
x dB Bandwidth 323.300 kHz

### EDGE 850 (CH Mid)

Agilent

R T



Occupied Bandwidth  
242.2592 kHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

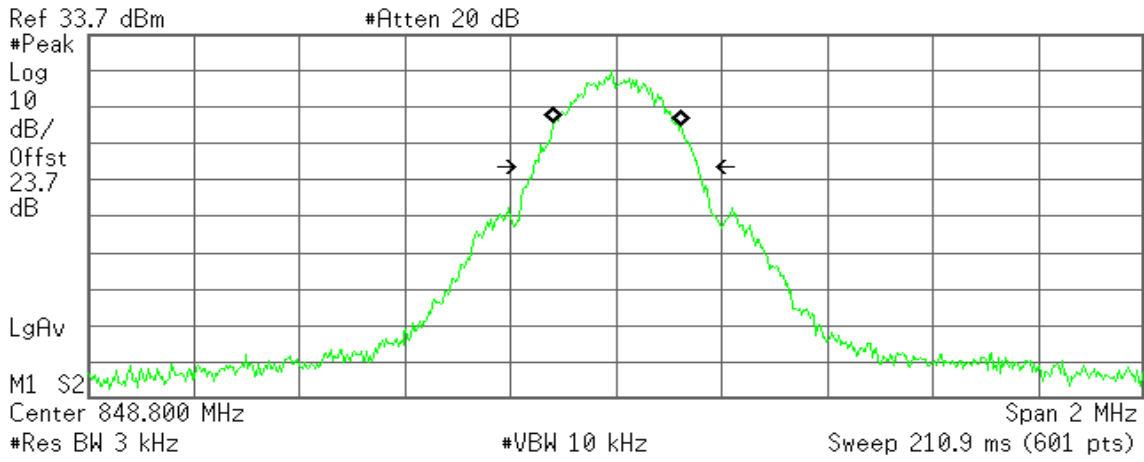
Transmit Freq Error 1.143 kHz  
x dB Bandwidth 312.141 kHz



### EDGE 850 (CH High)

Agilent

R T



**Occupied Bandwidth**  
243.0219 kHz

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

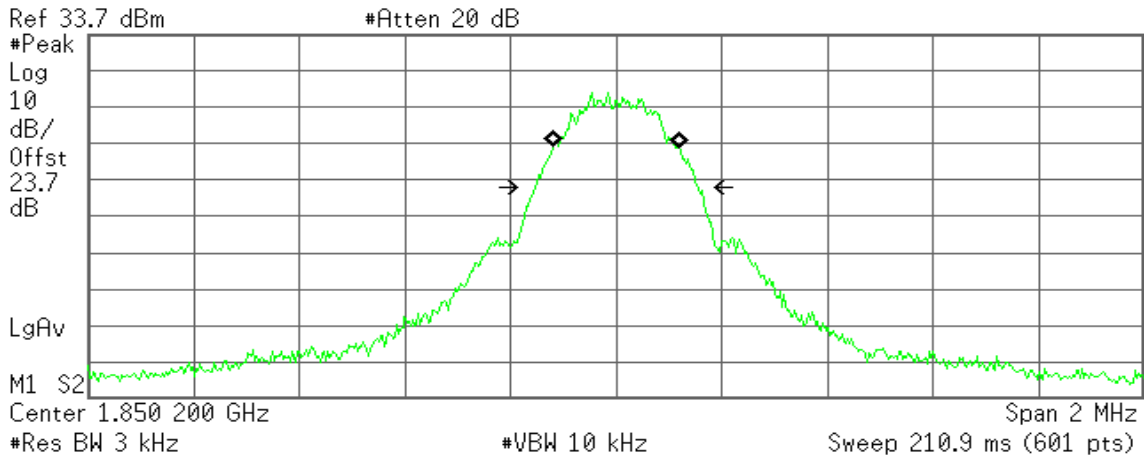
**Transmit Freq Error** 1.811 kHz  
**x dB Bandwidth** 311.336 kHz



### EDGE 1900 (CH Low)

Agilent

R T



Occupied Bandwidth  
241.5077 kHz

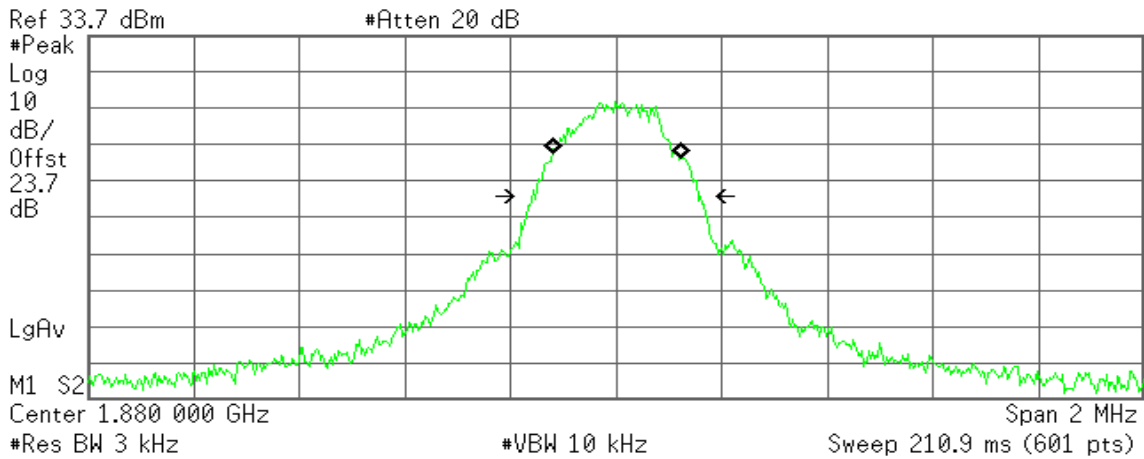
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 518.958 Hz  
x dB Bandwidth 309.321 kHz

### EDGE 1900 (CH Mid)

Agilent

R T



Occupied Bandwidth  
245.9471 kHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

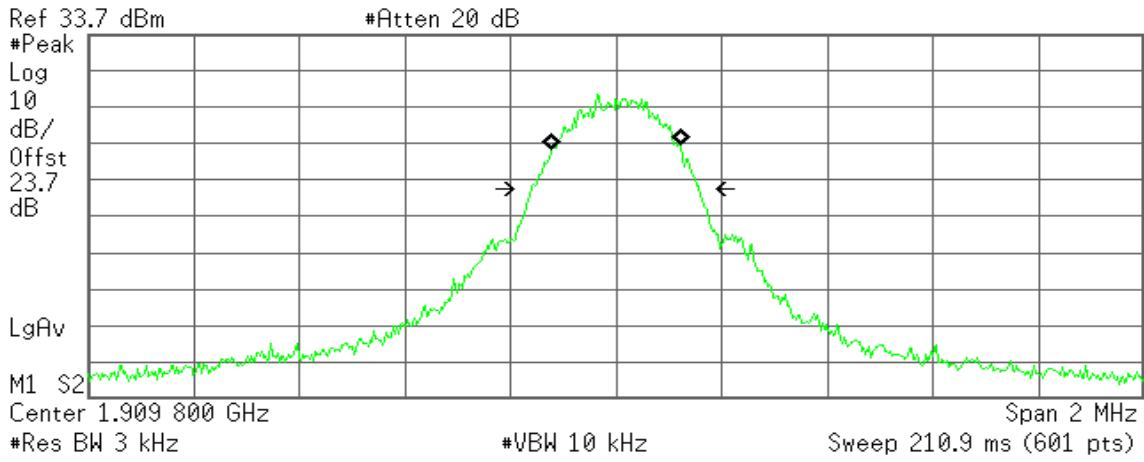
Transmit Freq Error 1.901 kHz  
x dB Bandwidth 315.212 kHz



**EDGE 1900 (CH High)**

Agilent

R T



**Occupied Bandwidth**  
**244.5472 kHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

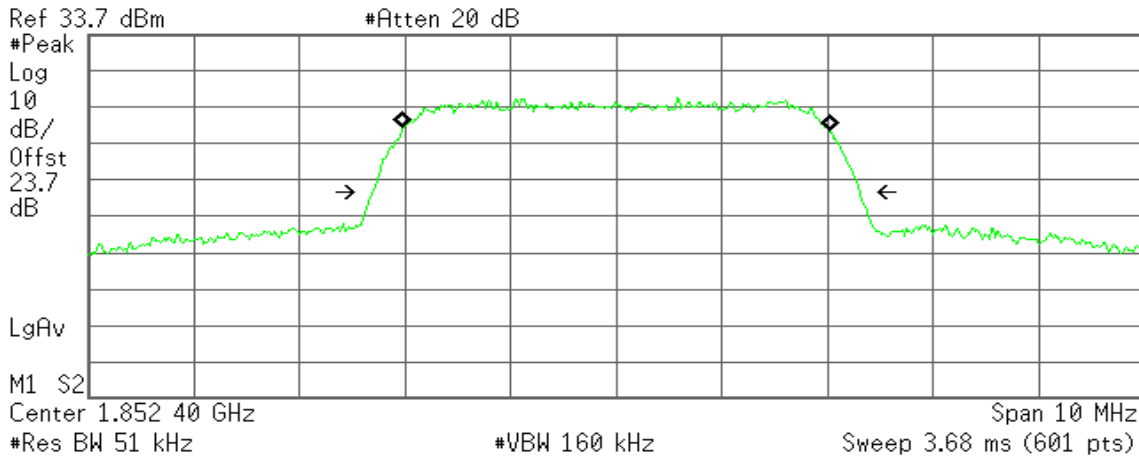
**Transmit Freq Error** 381.224 Hz  
**x dB Bandwidth** 319.088 kHz



### WCDMA Band II (CH Low)

Agilent

R T



Occupied Bandwidth  
4.0527 MHz

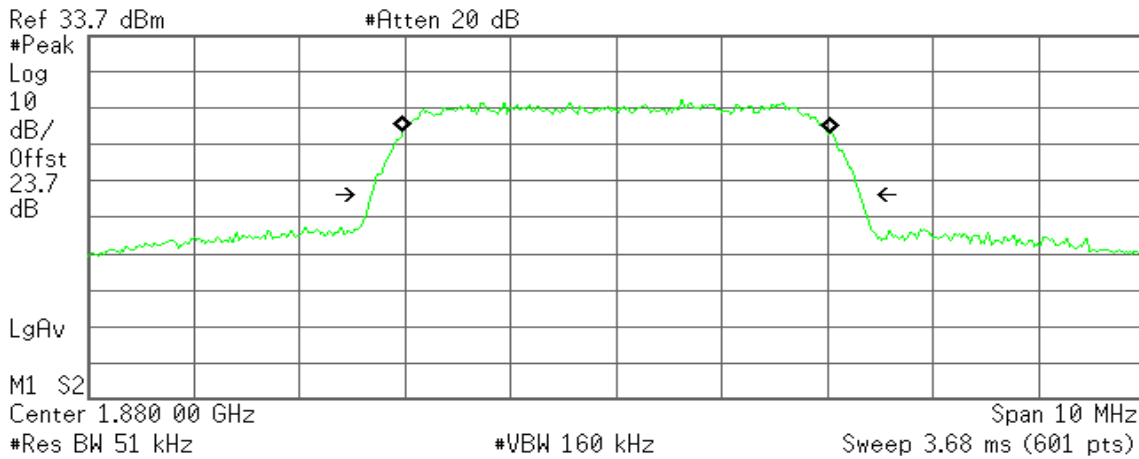
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -884.084 Hz  
x dB Bandwidth 4.631 MHz

### WCDMA Band II (CH Mid)

Agilent

R T



Occupied Bandwidth  
4.0622 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

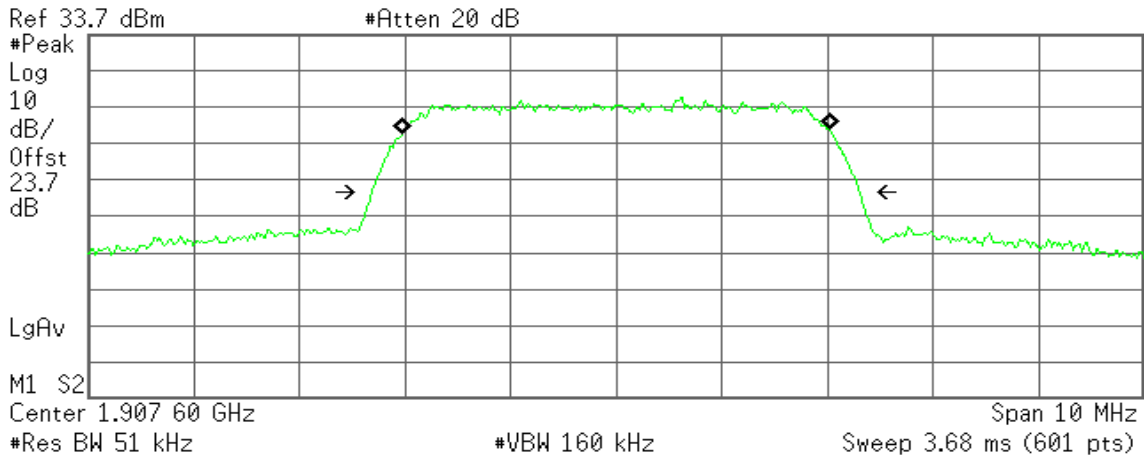
Transmit Freq Error 2.716 kHz  
x dB Bandwidth 4.634 MHz



### WCDMA Band II (CH High)

Agilent

R T



**Occupied Bandwidth**  
4.0629 MHz

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

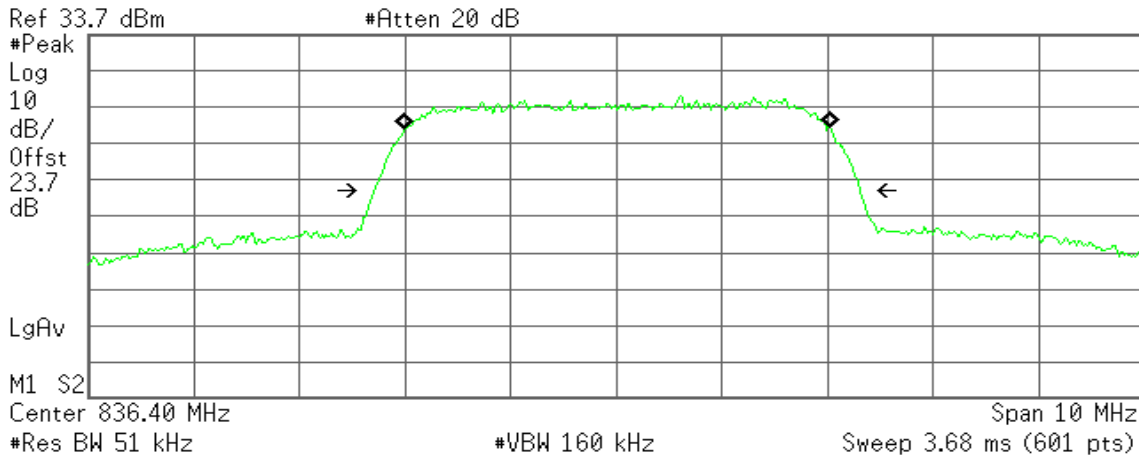
**Transmit Freq Error** -1.165 kHz  
**x dB Bandwidth** 4.637 MHz



### WCDMA Band V (CH Low)

Agilent

R T



Occupied Bandwidth  
4.0526 MHz

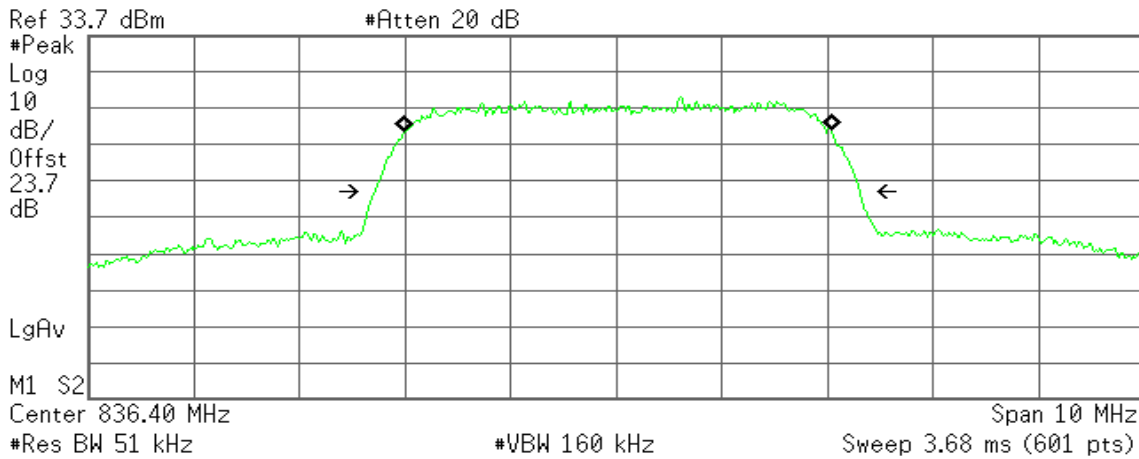
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 11.972 kHz  
x dB Bandwidth 4.611 MHz

### WCDMA Band V (CH Mid)

Agilent

R T



Occupied Bandwidth  
4.0600 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

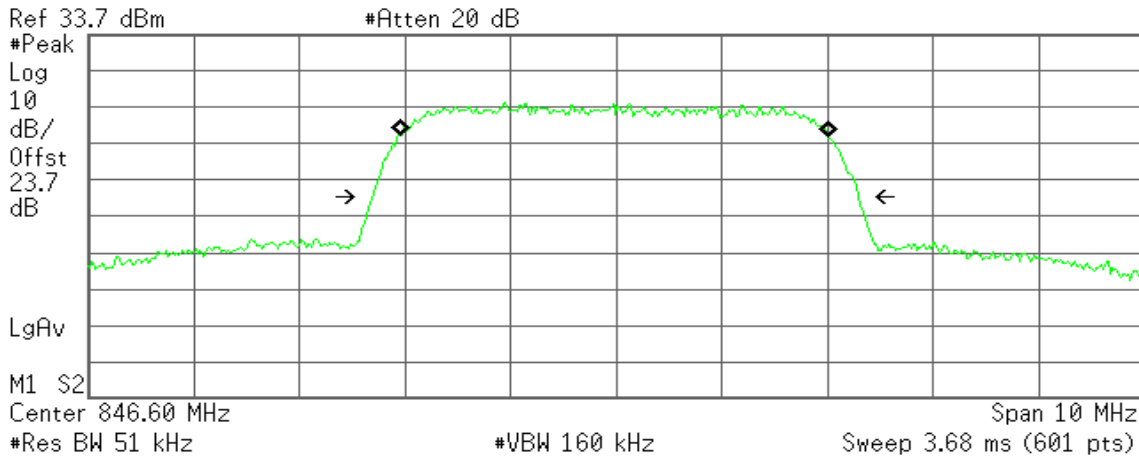
Transmit Freq Error 12.450 kHz  
x dB Bandwidth 4.596 MHz



### WCDMA Band V (CH High)

Agilent

R T



Occupied Bandwidth  
4.0621 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -20.480 kHz  
x dB Bandwidth 4.610 MHz

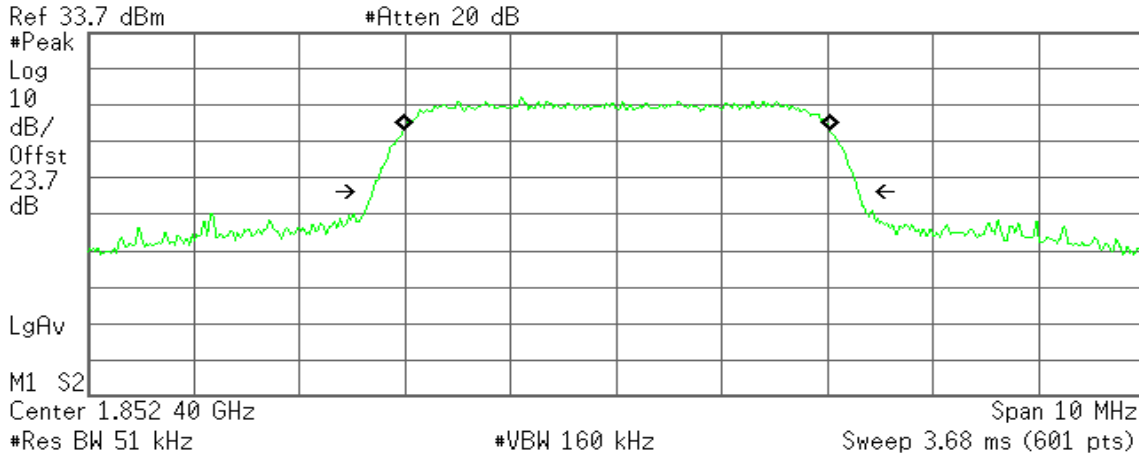




### WCDMA / HSDPA Band II (CH Low)

Agilent

R T



Occupied Bandwidth  
4.0559 MHz

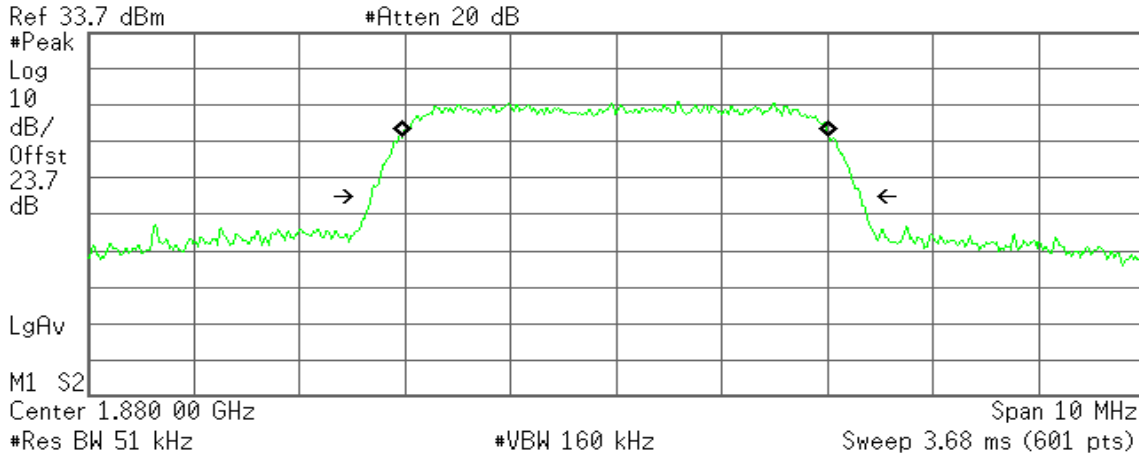
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 5.078 kHz  
x dB Bandwidth 4.606 MHz

### WCDMA / HSDPA Band II (CH Mid)

Agilent

R T



Occupied Bandwidth  
4.0585 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

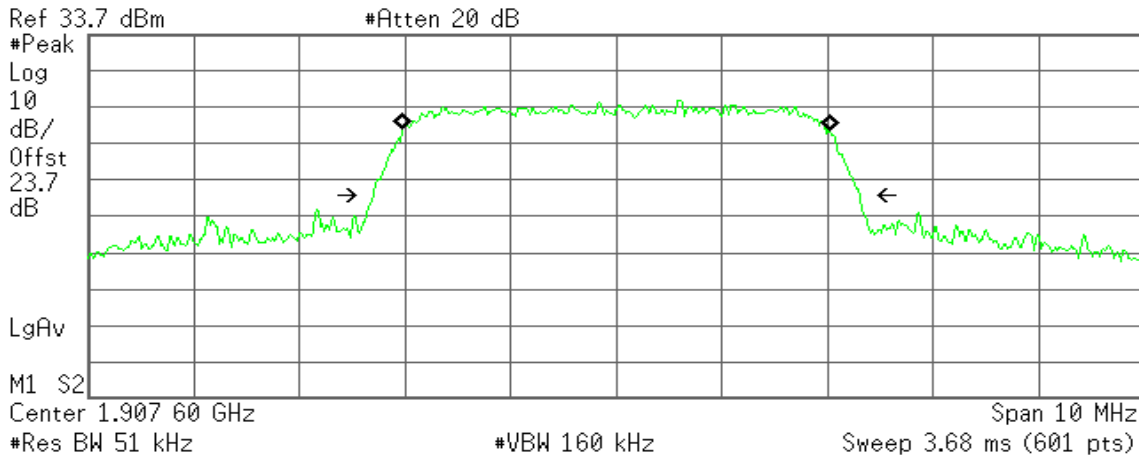
Transmit Freq Error -8.602 kHz  
x dB Bandwidth 4.647 MHz



### WCDMA / HSDPA Band II (CH High)

Agilent

R T



Occupied Bandwidth  
4.0638 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

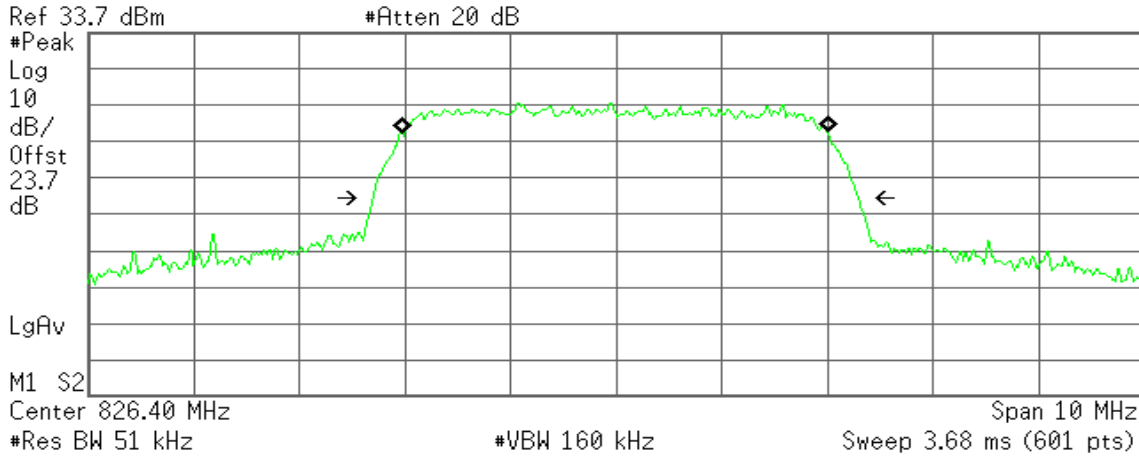
Transmit Freq Error 1.320 kHz  
x dB Bandwidth 4.616 MHz



### WCDMA / HSDPA Band V (CH Low)

Agilent

R T



Occupied Bandwidth  
4.0549 MHz

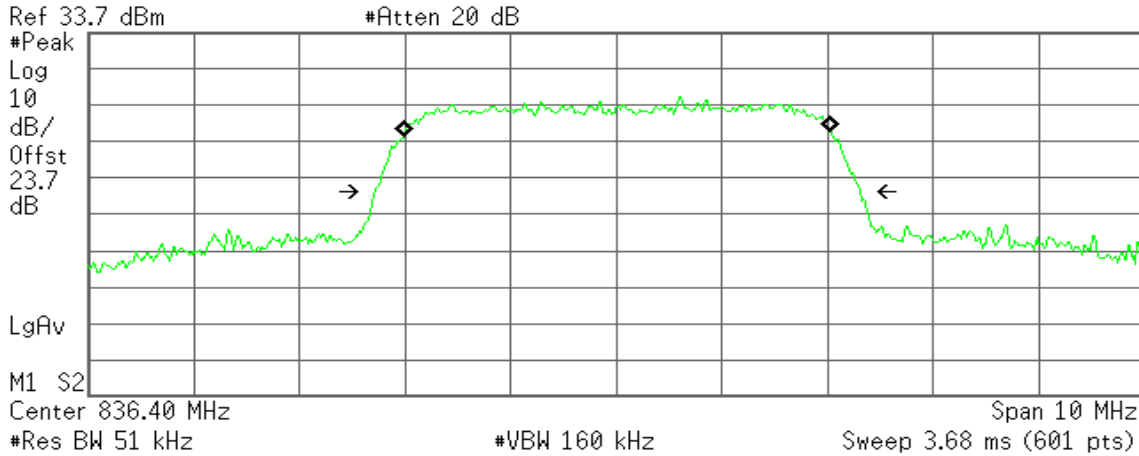
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -11.881 kHz  
x dB Bandwidth 4.609 MHz

### WCDMA / HSDPA Band V (CH Mid)

Agilent

R T



Occupied Bandwidth  
4.0541 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

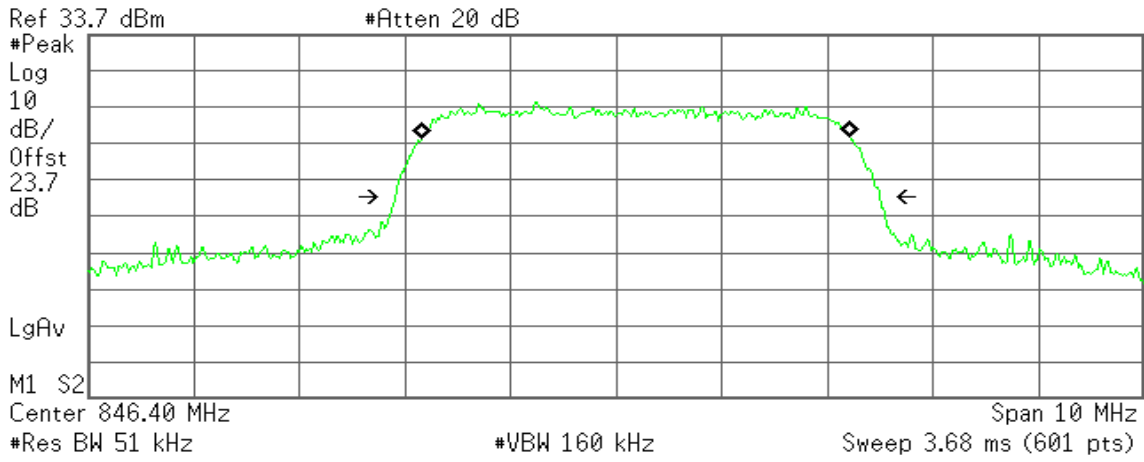
Transmit Freq Error 14.038 kHz  
x dB Bandwidth 4.612 MHz



WCDMA / HSDPA Band V (CH High)

Agilent

R T



Occupied Bandwidth  
4.0521 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

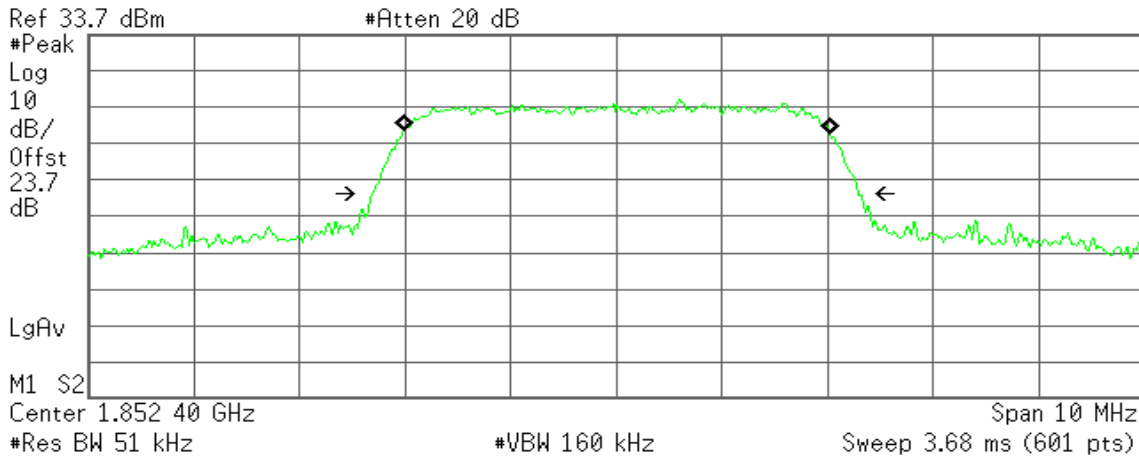
Transmit Freq Error 194.256 kHz  
x dB Bandwidth 4.603 MHz



### WCDMA / HSUPA Band II (CH Low)

Agilent

R T



Occupied Bandwidth  
4.0552 MHz

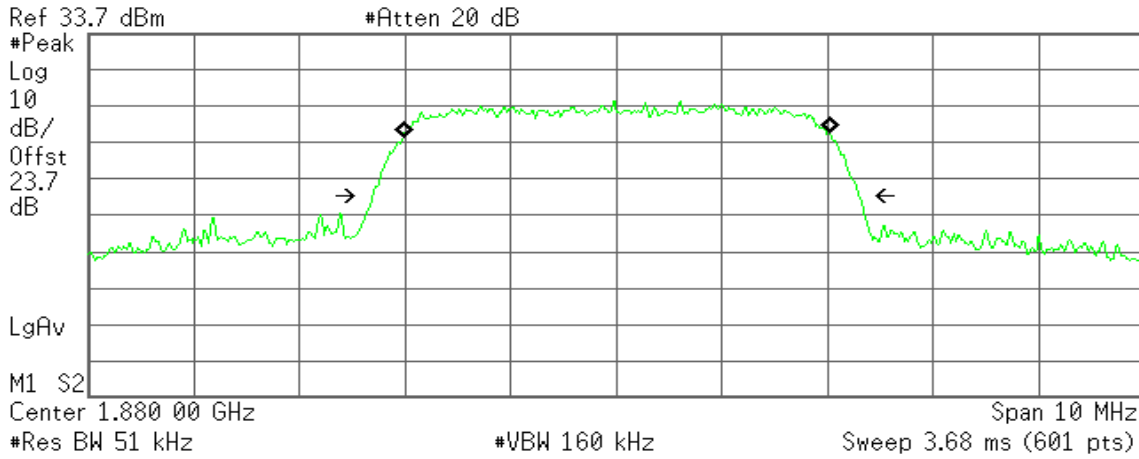
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 2.617 kHz  
x dB Bandwidth 4.611 MHz

### WCDMA / HSUPA Band II (CH Mid)

Agilent

R T



Occupied Bandwidth  
4.0550 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

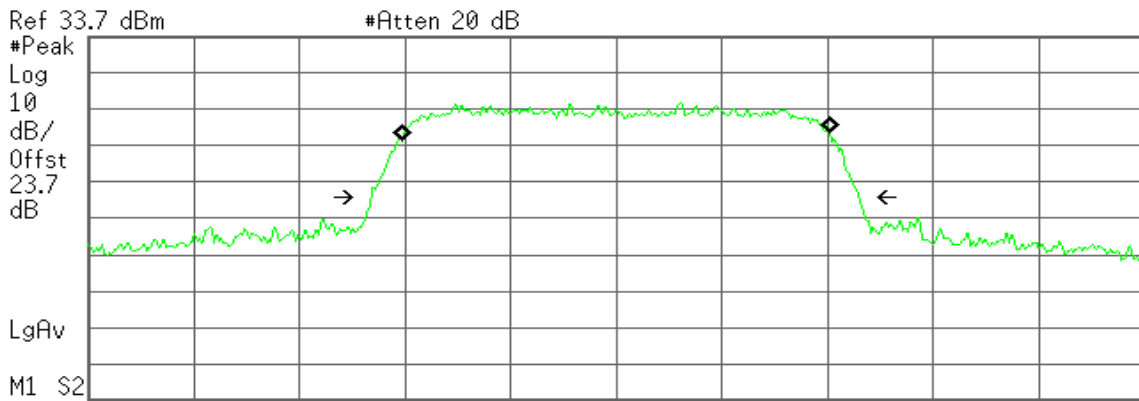
Transmit Freq Error 4.470 kHz  
x dB Bandwidth 4.618 MHz



### WCDMA / HSUPA Band II (CH High)

Agilent

R T



Center 1.907 60 GHz

Span 10 MHz

#Res BW 51 kHz

#VBW 160 kHz

Sweep 3.68 ms (601 pts)

**Occupied Bandwidth**  
**4.0663 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

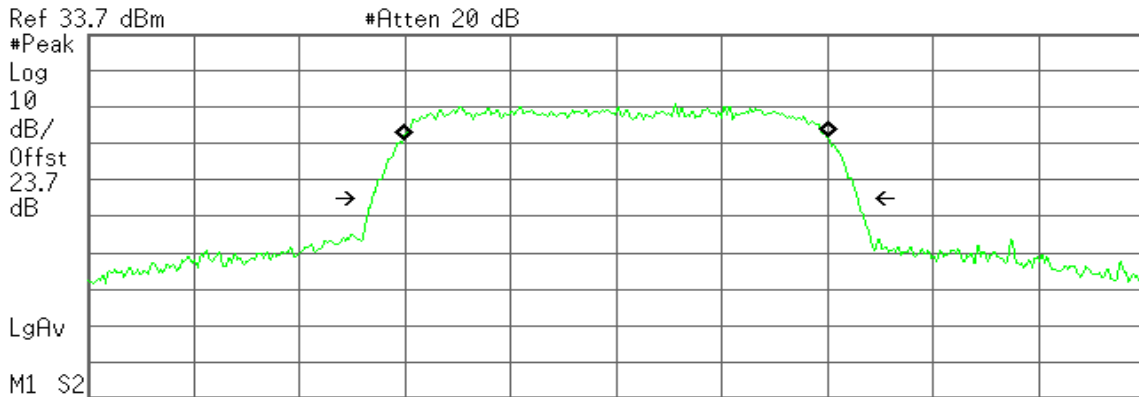
**Transmit Freq Error** 1.923 kHz  
**x dB Bandwidth** 4.636 MHz



### WCDMA / HSUPA Band V (CH Low)

Agilent

R T



Ref 33.7 dBm #Atten 20 dB  
 Center 826.40 MHz Span 10 MHz  
 #Res BW 51 kHz #VBW 160 kHz Sweep 3.68 ms (601 pts)

**Occupied Bandwidth**  
**4.0291 MHz**

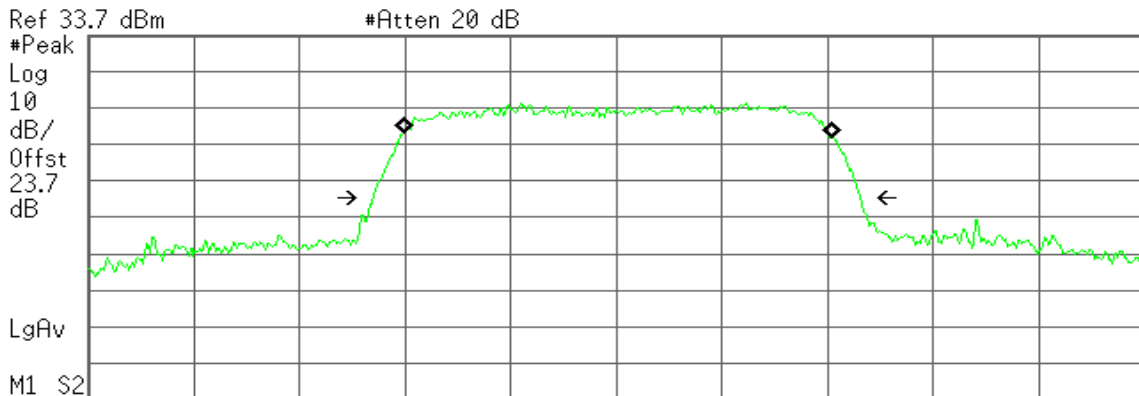
**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -4.829 kHz  
**x dB Bandwidth** 4.609 MHz

### WCDMA / HSUPA Band V (CH Mid)

Agilent

R T



Ref 33.7 dBm #Atten 20 dB  
 Center 836.40 MHz Span 10 MHz  
 #Res BW 51 kHz #VBW 160 kHz Sweep 3.68 ms (601 pts)

**Occupied Bandwidth**  
**4.0641 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

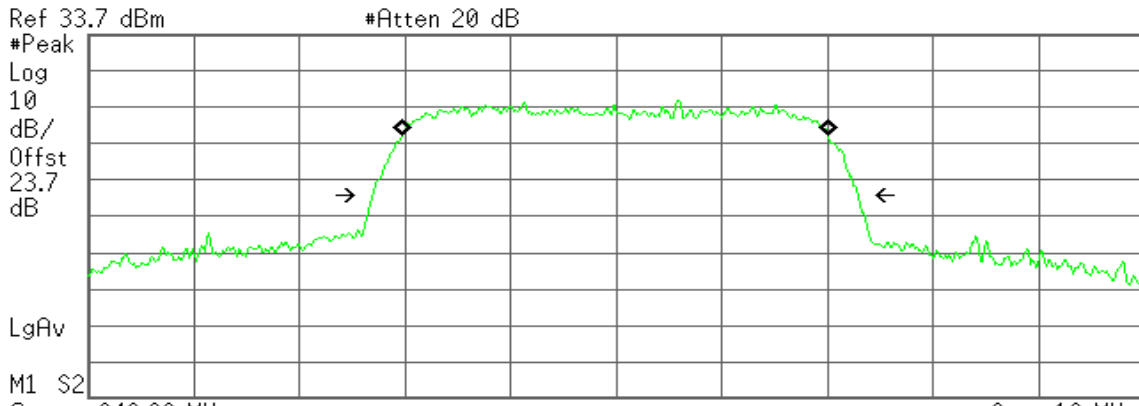
**Transmit Freq Error** 10.806 kHz  
**x dB Bandwidth** 4.630 MHz



### WCDMA / HSUPA Band V (CH High)

Agilent

R T



**Occupied Bandwidth**  
**4.0499 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -7.072 kHz  
**x dB Bandwidth** 4.605 MHz



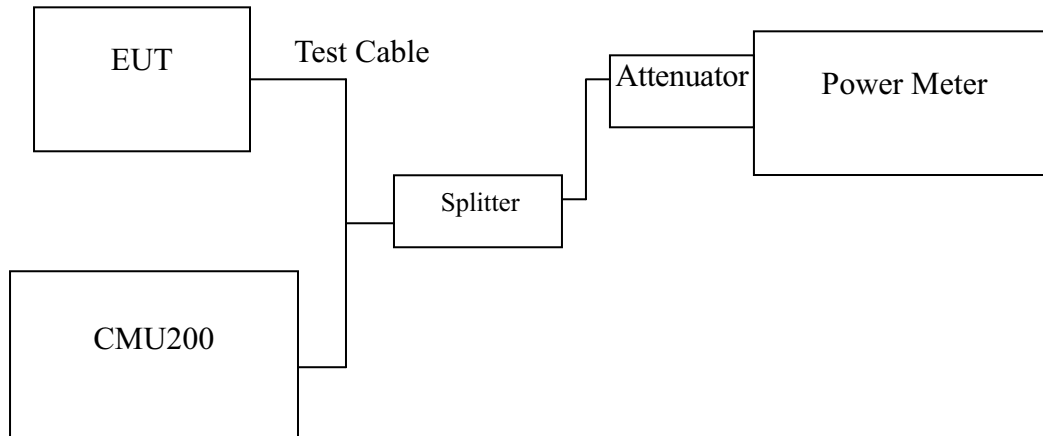


## 7.2 PEAK POWER

### LIMIT

According to FCC §2.1046.

### Test Configuration



*Remark: Measurement setup for testing on Antenna connector*

### TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

### TEST RESULTS

*No non-compliance noted.*



**Test Data**

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power (W)
GSM 850 (Class B)	128	824.20	32.00	1.58489
	190	836.40	32.00	1.58489
	251	848.80	32.00	1.58489
GPRS 850 (Class 12)	128	824.20	31.00	1.25893
	190	836.40	31.20	1.31826
	251	848.80	31.30	1.34896
EDGE 850 (Class 12)	128	824.20	28.10	0.64565
	190	836.40	28.30	0.67608
	251	848.80	28.40	0.69183

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power (W)
GSM 1900 (Class B)	512	1850.20	28.80	0.75858
	661	1880.00	28.90	0.77625
	810	1910.00	28.80	0.75858
GPRS 1900 (Class 12)	512	1850.20	28.00	0.63096
	661	1880.00	27.80	0.60256
	810	1910.00	27.80	0.60256
EDGE 1900 (Class 12)	512	1850.20	27.30	0.53703
	661	1880.00	27.20	0.52481
	810	1910.00	27.20	0.52481

**Remark:** The value of factor includes both the loss of cable and external attenuator



Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power (W)
WCDMA (BAND II)	9262	1852.40	27.51	0.56364
	9400	1880.00	25.64	0.36644
	9538	1907.60	25.53	0.35727
WCDMA (BAND V)	4132	826.40	26.32	0.42855
	4182	836.40	26.00	0.39811
	4233	846.60	25.75	0.37584

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power (W)
WCDMA / HSDPA (BAND II)	9262	1852.40	27.80	0.60256
	9400	1880.00	26.33	0.42954
	9538	1907.60	26.08	0.40551
WCDMA / HSDPA (BAND V)	4132	826.40	27.37	0.54576
	4182	836.40	27.39	0.54828
	4233	846.60	26.79	0.47753

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power (W)
WCDMA / HSUPA (BAND II)	9262	1852.40	27.63	0.57943
	9400	1880.00	26.30	0.42658
	9538	1907.60	26.41	0.43752
WCDMA / HSUPA (BAND V)	4132	826.40	27.32	0.53951
	4182	836.40	27.30	0.53703
	4233	846.60	27.04	0.50582

**Remark:** The value of factor includes both the loss of cable and external attenuator

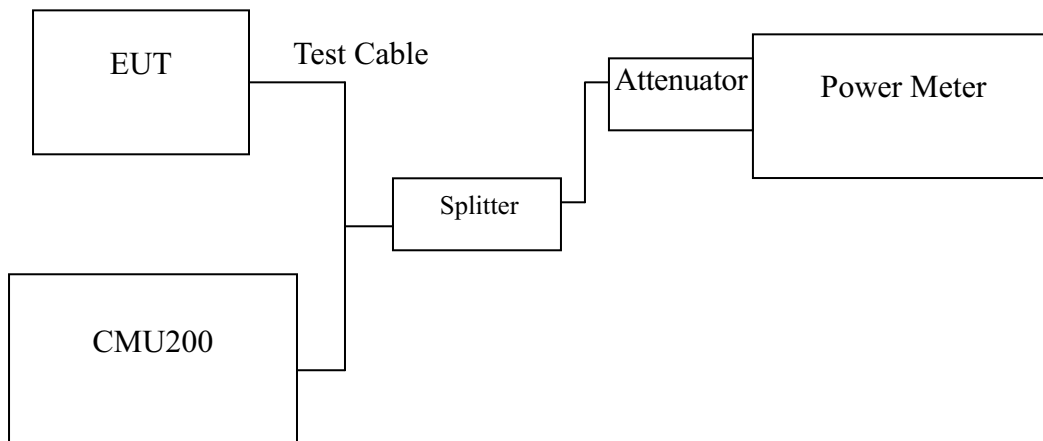


## 7.3 AVERAGE POWER

### LIMIT

For reporting purposes only.

### Test Configuration



*Remark: Measurement setup for testing on Antenna connector*

### TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

### TEST RESULTS

*No non-compliance noted.*



**Test Data**

Test Mode	CH	Frequency (MHz)	Average Power (dBm)	Output Power (W)
GSM 850 (Class 12)	128	824.20	31.80	1.51356
	190	836.40	31.90	1.54882
	251	848.80	31.90	1.54882
GPRS 850 (Class 12)	128	824.20	30.90	1.23027
	190	836.40	31.00	1.25893
	251	848.80	31.10	1.28825
EDGE 850 (Class 12)	128	824.20	25.20	0.33113
	190	836.40	25.40	0.34674
	251	848.80	25.50	0.35481

Test Mode	CH	Frequency (MHz)	Average Power (dBm)	Output Power (W)
GSM 1900 (Class 12)	512	1850.20	28.70	0.74131
	661	1880.00	28.80	0.75858
	810	1909.80	28.60	0.72444
GPRS 1900 (Class 12)	512	1850.20	27.80	0.60256
	661	1880.00	27.70	0.58884
	810	1909.80	27.70	0.58884
EDGE 1900 (Class 12)	512	1850.20	24.30	0.26915
	661	1880.00	24.20	0.26303
	810	1909.80	24.30	0.26915

**Remark:** The value of factor includes both the loss of cable and external attenuator



Test Mode	CH	Frequency (MHz)	Average Power (dBm)	Output Power (W)
WCDMA (BAND II)	9262	1852.40	22.97	0.19815
	9400	1880.00	22.71	0.18664
	9538	1907.60	22.72	0.18707
WCDMA (BAND V)	4132	826.40	22.63	0.18323
	4182	836.40	22.73	0.18750
	4233	846.60	22.36	0.17219

Test Mode	CH	Frequency (MHz)	Average Power (dBm)	Output Power (W)
WCDMA / HSDPA (BAND II)	9262	1852.40	22.98	0.19861
	9400	1880.00	22.80	0.19055
	9538	1907.60	22.78	0.18967
WCDMA / HSDPA (BAND V)	4132	826.40	22.61	0.18239
	4182	836.40	22.70	0.18621
	4233	846.60	22.28	0.16904

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power (W)
WCDMA / HSUPA (BAND II)	9262	1852.40	22.94	0.19679
	9400	1880.00	22.72	0.18707
	9538	1907.60	22.80	0.19055
WCDMA / HSUPA (BAND V)	4132	826.40	22.53	0.17906
	4182	836.40	22.62	0.18281
	4233	846.60	22.44	0.17539

**Remark:** The value of factor includes both the loss of cable and external attenuator



## 7.4 ERP & EIRP MEASUREMENT

### LIMIT

According to FCC §2.1046

FCC 22.913(b): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

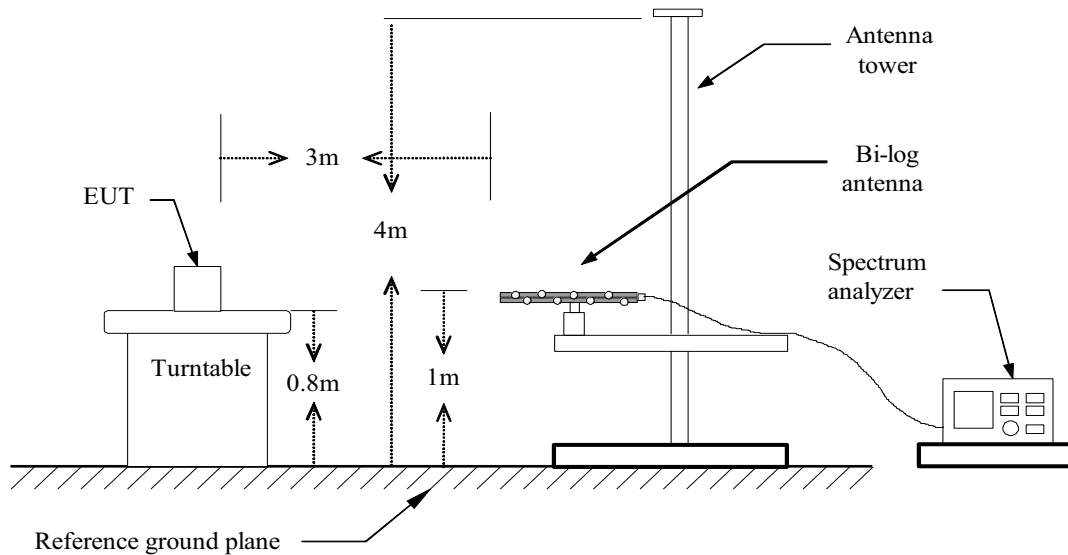
RSS-132 § 4.4 The maximum (ERP) shall be 6.3 Watts for mobile stations.

FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

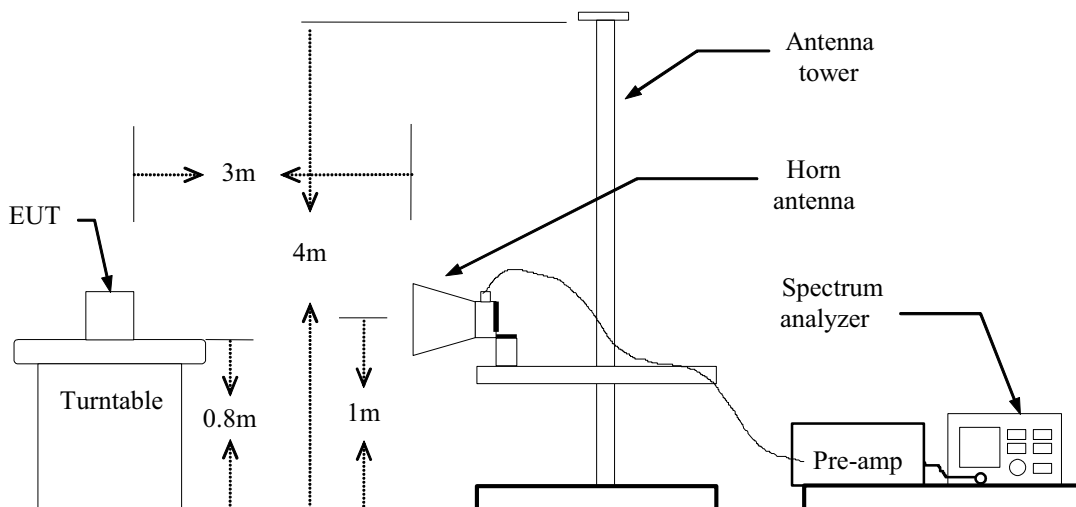
RSS133 § 6.4: Mobile stations and hand-held portables are limited to 2 watts maximum (EIRP).

### Test Configuration

#### Below 1 GHz

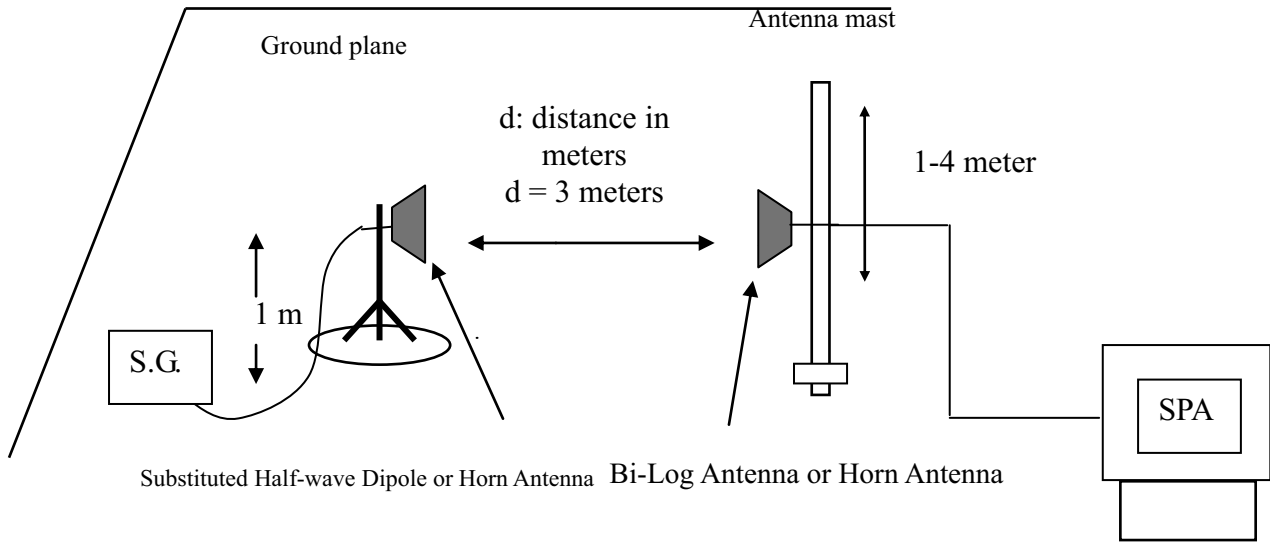


#### Above 1 GHz





### For Substituted Method Test Set-UP



### TEST PROCEDURE

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 5MHz and the average bandwidth was set to 50MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)} - 2.15$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

### TEST RESULTS

*No non-compliance noted.*



**GSM 850 Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.2900	V	22.31	3.39	6.24	25.16	38.45	-13.29
	824.2200	H	24.44	3.39	6.24	<b>*27.29</b>	38.45	-11.16
190	836.4000	V	19.53	3.4	6.36	22.49	38.45	-15.96
	836.4700	H	22.1	3.4	6.36	25.06	38.45	-13.39
251	848.7900	V	22.12	3.4	6.4	25.12	38.45	-13.33
	848.6500	H	23.44	3.4	6.4	26.44	38.45	-12.01

**GPRS 850 Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.1500	V	20.09	3.39	6.24	22.94	38.45	-15.51
	824.2200	H	22.38	3.39	6.24	<b>*25.23</b>	38.45	-13.22
190	836.4700	V	17.73	3.4	6.36	20.69	38.45	-17.76
	836.6100	H	20.03	3.4	6.37	23.00	38.45	-15.45
251	848.6500	V	20.39	3.4	6.4	23.39	38.45	-15.06
	848.8600	H	21.51	3.4	6.4	24.51	38.45	-13.94

**GSM 1900 Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.160	V	24.96	5.37	5.67	25.26	33.00	-7.74
	1850.280	H	28.01	5.37	5.67	28.31	33.00	-4.69
661	1879.920	V	25.1	5.42	5.62	25.30	33.00	-7.70
	1880.040	H	29.37	5.42	5.62	<b>*29.57</b>	33.00	-3.43
810	1909.800	V	24.63	5.48	5.56	24.71	33.00	-8.29
	1909.920	H	29.47	5.48	5.56	29.55	33.00	-3.45

**GPRS 1900 Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.160	V	24.2	5.37	5.67	24.50	33.00	-8.50
	1850.280	H	27.13	5.37	5.67	27.43	33.00	-5.57
661	1879.920	V	24.21	5.42	5.62	24.41	33.00	-8.59
	1879.920	H	28.48	5.42	5.62	<b>*28.68</b>	33.00	-4.32
810	1909.800	V	23.69	5.48	5.56	23.77	33.00	-9.23
	1909.800	H	28.52	5.48	5.56	28.60	33.00	-4.40



**EDGE 850 Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.2200	V	20.06	3.39	6.24	22.91	38.45	-15.54
	824.2200	H	22.39	3.39	6.24	<b>*25.24</b>	38.45	-13.21
190	836.4700	V	17.69	3.4	6.36	20.65	38.45	-17.80
	836.4700	H	20.06	3.4	6.36	23.02	38.45	-15.43
251	848.7200	V	20.37	3.4	6.4	23.37	38.45	-15.08
	848.7200	H	21.49	3.4	6.4	24.49	38.45	-13.96

**EDGE 1900 TEST DATA**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.160	V	24.12	5.37	5.67	24.42	33.00	-8.58
	1850.160	H	27.05	5.37	5.67	27.35	33.00	-5.65
661	1880.040	V	24.14	5.42	5.62	24.34	33.00	-8.66
	1879.920	H	28.44	5.42	5.62	<b>*28.64</b>	33.00	-4.36
810	1909.800	V	23.69	5.48	5.56	23.77	33.00	-9.23
	1909.800	H	28.41	5.48	5.56	28.49	33.00	-4.51

**WCDMA BAND II Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1853.640	V	18.76	5.38	5.66	19.04	33.00	-13.96
	1853.640	H	24.21	5.38	5.66	24.49	33.00	-8.51
9400	1878.840	V	18.6	5.42	5.62	18.80	33.00	-14.20
	1878.480	H	25.18	5.42	5.62	<b>*25.38</b>	33.00	-7.62
9538	1906.320	V	18.26	5.47	5.57	18.36	33.00	-14.64
	1906.800	H	25.21	5.47	5.57	25.31	33.00	-7.69

**WCDMA BAND V Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	827.0200	V	17.51	3.39	6.27	20.39	38.45	-18.06
	827.0900	H	17.55	3.39	6.27	20.43	38.45	-18.02
4182	837.1000	V	16.95	3.4	6.37	19.92	38.45	-18.53
	837.3800	H	17.87	3.4	6.37	20.84	38.45	-17.61
4233	845.7800	V	16.15	3.4	6.4	19.15	38.45	-19.30
	847.7400	H	18.37	3.4	6.4	<b>*21.37</b>	38.45	-17.08

**HSDPA BAND II Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1853.400	V	20.8	5.38	5.66	21.08	33.00	-11.92
	1854.000	H	25.47	5.38	5.66	25.75	33.00	-7.25
9400	1881.360	V	19.21	5.42	5.61	19.40	33.00	-13.60
	1879.920	H	25.63	5.42	5.62	<b>*25.83</b>	33.00	-7.17
9538	1906.800	V	20.62	5.47	5.57	20.72	33.00	-12.28
	1906.680	H	25.73	5.47	5.57	25.83	33.00	-7.17

**HSDPA BAND V Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	827.1600	V	16.24	3.39	6.27	19.12	38.45	-19.33
	827.5100	H	17.99	3.39	6.27	20.87	38.45	-17.58
4182	837.4500	V	16.22	3.4	6.37	19.19	38.45	-19.26
	837.4500	H	17.97	3.4	6.37	20.94	38.45	-17.51
4233	845.4300	V	17.03	3.4	6.4	20.03	38.45	-18.42
	846.6200	H	18.51	3.4	6.4	<b>*21.51</b>	38.45	-16.94



**WCDMA / HSUPA BAND II Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1853.400	V	20.49	5.38	5.66	20.77	33.00	-12.23
	1853.160	H	25.49	5.38	5.66	25.77	33.00	-7.23
9400	1880.760	V	19.9	5.42	5.61	20.09	33.00	-12.91
	1881.000	H	25.78	5.42	5.61	25.97	33.00	-7.03
9538	1906.560	V	20.97	5.47	5.57	21.07	33.00	-11.93
	1906.560	H	25.93	5.47	5.57	<b>*26.03</b>	33.00	-6.97

**WCDMA / HSUPA BAND V Test Data**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	825.3400	V	16.15	3.39	6.25	19.01	38.45	-19.44
	827.5800	H	17.75	3.39	6.27	20.63	38.45	-17.82
4182	837.1700	V	16.12	3.4	6.37	19.09	38.45	-19.36
	837.2400	H	17.78	3.4	6.37	20.75	38.45	-17.70
4233	847.7400	V	16.98	3.4	6.4	19.98	38.45	-18.47
	845.0800	H	18.37	3.4	6.4	<b>*21.37</b>	38.45	-17.08



## 7.5 OUT OF BAND EMISSION AT ANTENNA TERMINALS

### LIMIT

According to FCC §2.1051, FCC §22.917, FCC §24.238(a), RSS-132 (4.5.2), RSS-133 (6.6).

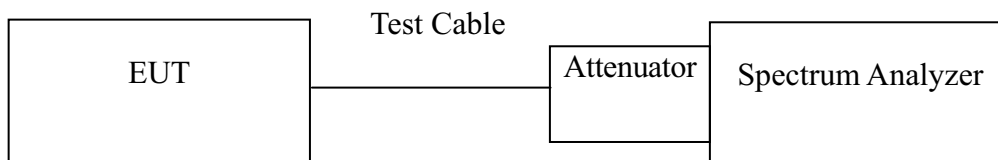
**Out of Band Emissions:** The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at least  $43 + 10 \log P$  dB.

**Mobile Emissions in Base Frequency Range:** The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not exceed  $-80$  dBm at the transmit antenna connector.

**Band Edge Requirements:** In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

### Test Configuration

**Out of band emission at antenna terminals:**



### TEST PROCEDURE

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements (824 MHz and 849 MHz /1850MHz and 1910MHz): In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

### TEST RESULTS

*No non-compliance noted.*



**Test Data**

Mode	CH	Location	Description
GSM 850	128	Figure 7-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 850	128	Figure 8-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 8-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 8-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 1900	512	Figure 9-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 9-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 9-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 1900	512	Figure 10-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 10-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 10-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 850	128	Figure 11-1	Band Edge emissions
	251	Figure 11-2	Band Edge emissions
GPRS 850	128	Figure 12-1	Band Edge emissions
	251	Figure 12-2	Band Edge emissions

Mode	CH	Location	Description
GSM 1900	512	Figure 13-1	Band Edge emissions
	810	Figure 13-2	Band Edge emissions
GPRS 1900	512	Figure 14-1	Band Edge emissions
	810	Figure 14-2	Band Edge emissions



Mode	CH	Location	Description
EDGE 850	128	Figure 15-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 15-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 15-3	Conducted spurious emissions, 30MHz - 20GHz
EDGE 1900	512	Figure 16-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 16-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 16-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
EDGE 850	128	Figure 17-1	Band Edge emissions
	251	Figure 17-2	Band Edge emissions
EDGE 1900	512	Figure 18-1	Band Edge emissions
	810	Figure 18-2	Band Edge emissions



Mode	CH	Location	Description
WCDMA (Band II)	9262	Figure 19-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 19-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 19-3	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band V)	4132	Figure 20-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 20-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 20-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
WCDMA (Band II)	9262	Figure 21-1	Band Edge emissions
	9538	Figure 21-2	Band Edge emissions
WCDMA (Band V)	4132	Figure 22-1	Band Edge emissions
	4233	Figure 22-2	Band Edge emissions

Mode	CH	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 23-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 23-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 23-3	Conducted spurious emissions, 30MHz - 20GHz
HSDPA WCDMA (Band V)	4132	Figure 24-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 24-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 24-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 25-1	Band Edge emissions
	9538	Figure 25-2	Band Edge emissions
HSDPA WCDMA (Band V)	4132	Figure 26-1	Band Edge emissions
	4233	Figure 26-2	Band Edge emissions





Mode	CH	Location	Description
HSUPA WCDMA (Band II)	9262	Figure 27-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 27-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 27-3	Conducted spurious emissions, 30MHz - 20GHz
HSUPA WCDMA (Band V)	4132	Figure 28-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 28-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 28-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
HSUPA WCDMA (Band II)	9262	Figure 29-1	Band Edge emissions
	9538	Figure 29-2	Band Edge emissions
HSUPA WCDMA (Band V)	4132	Figure 30-1	Band Edge emissions
	4233	Figure 30-2	Band Edge emissions



**Test Plot**

**GSM 850**

Figure 7-1: Out of Band emission at antenna terminals – GSM CH Low

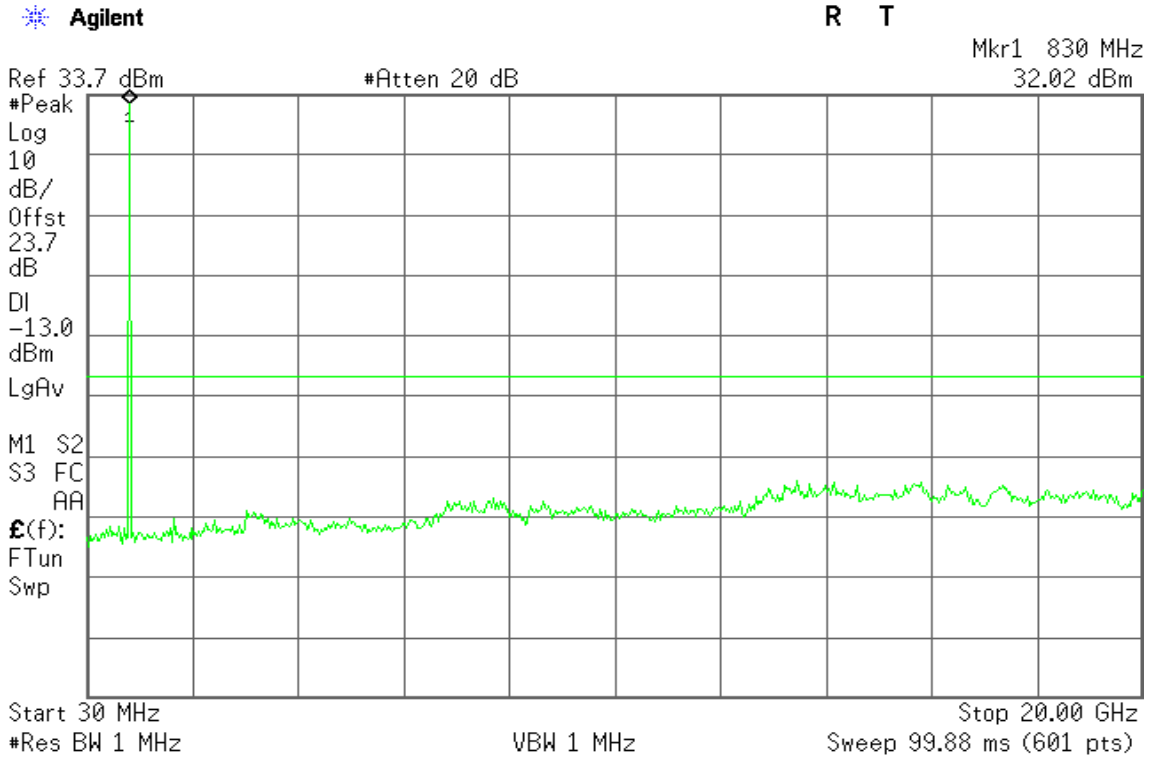


Figure 7-2: Out of Band emission at antenna terminals – GSM CH Mid

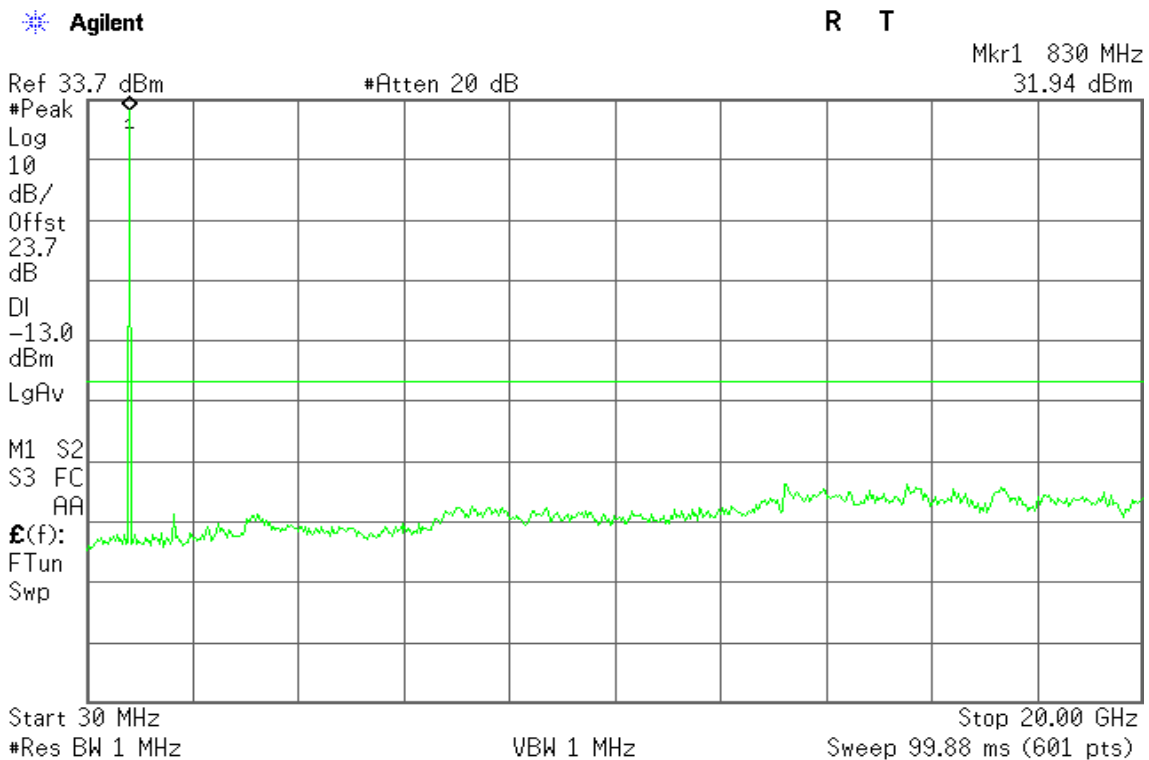
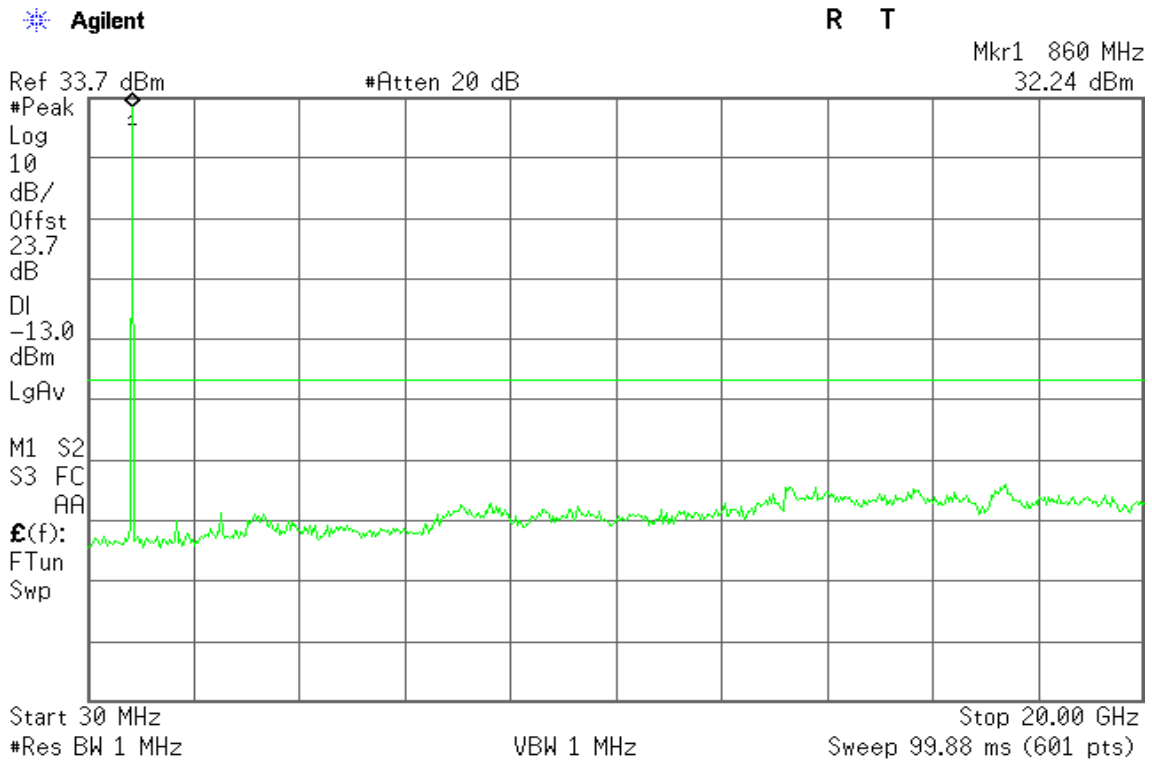




Figure 7-3: Out of Band emission at antenna terminals – GSM CH High





### GPRS 850

Figure 8-1: Out of Band emission at antenna terminals – GPRS CH Low

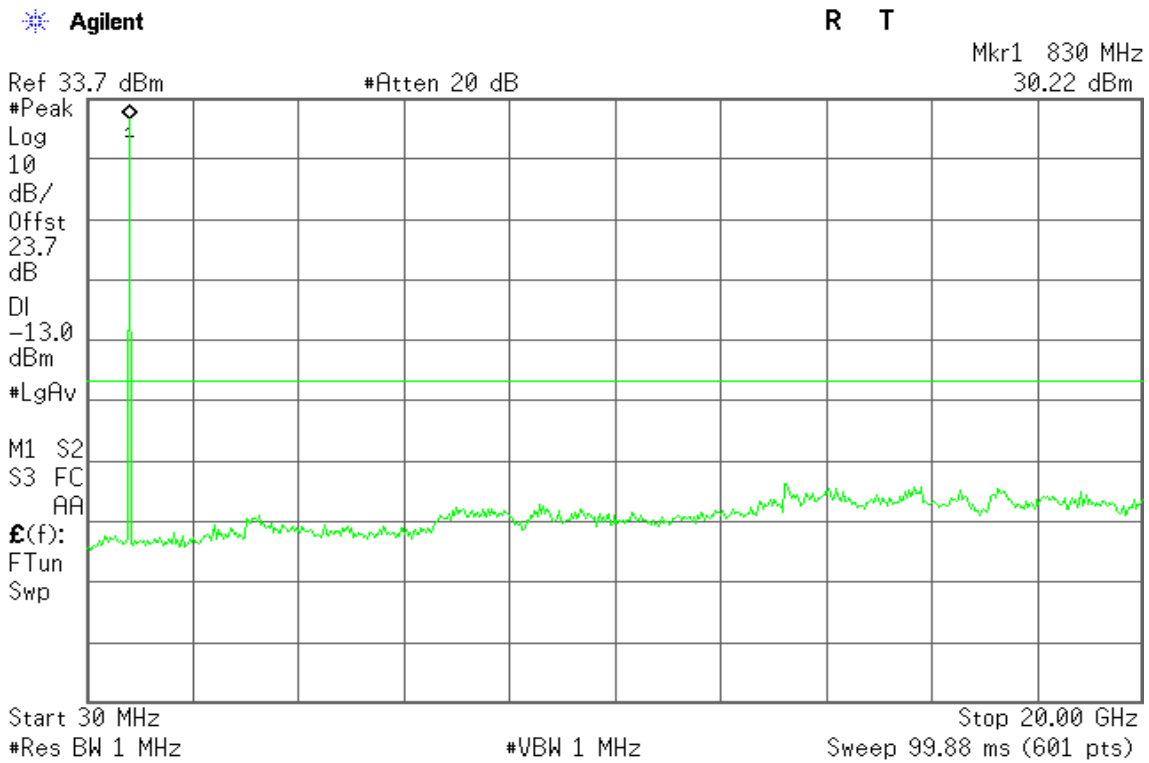


Figure 8-2: Out of Band emission at antenna terminals – GPRS CH Mid

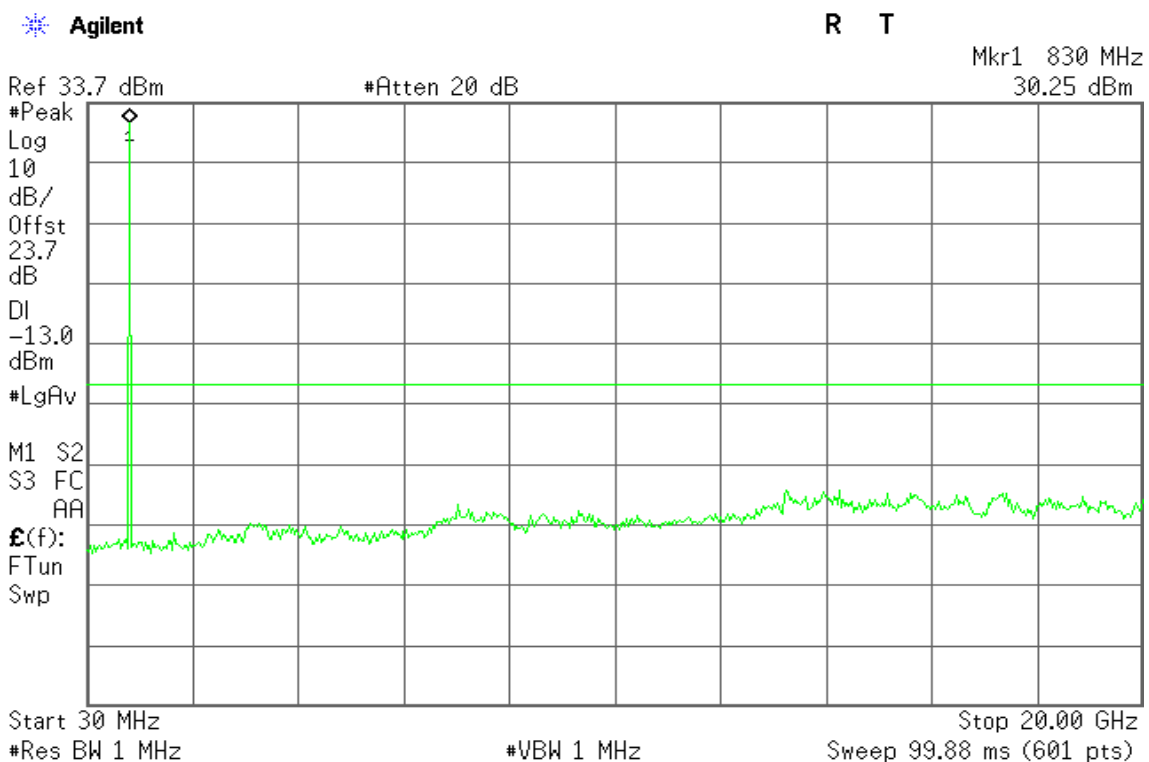
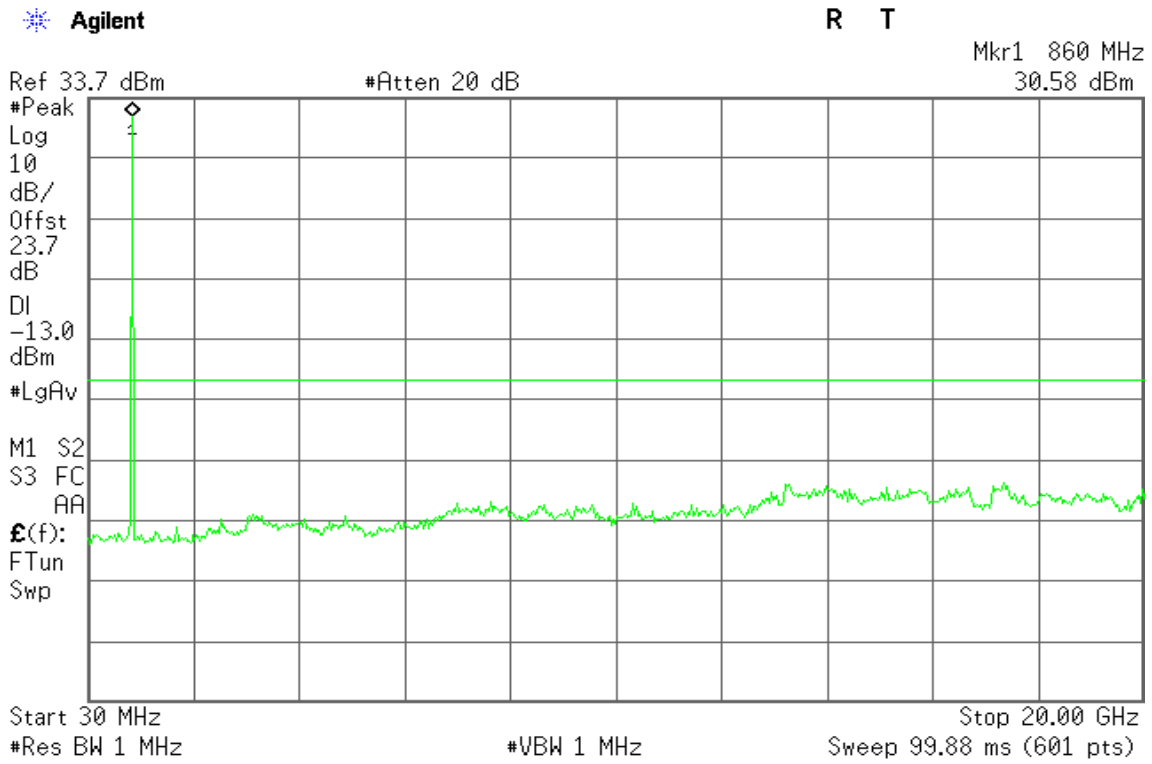




Figure 8-3: Out of Band emission at antenna terminals – GPRS CH High





### GSM 1900

Figure 9-1: Out of Band emission at antenna terminals – GSM CH Low

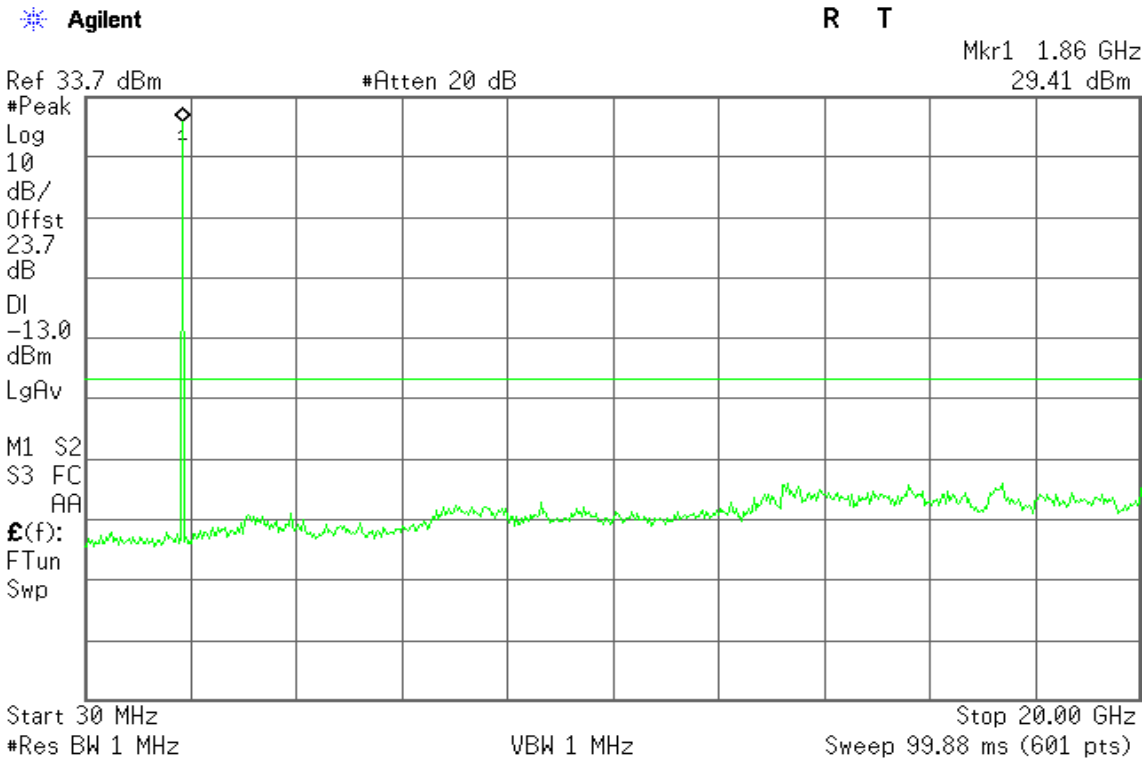


Figure 9-2: Out of Band emission at antenna terminals – GSM CH Mid

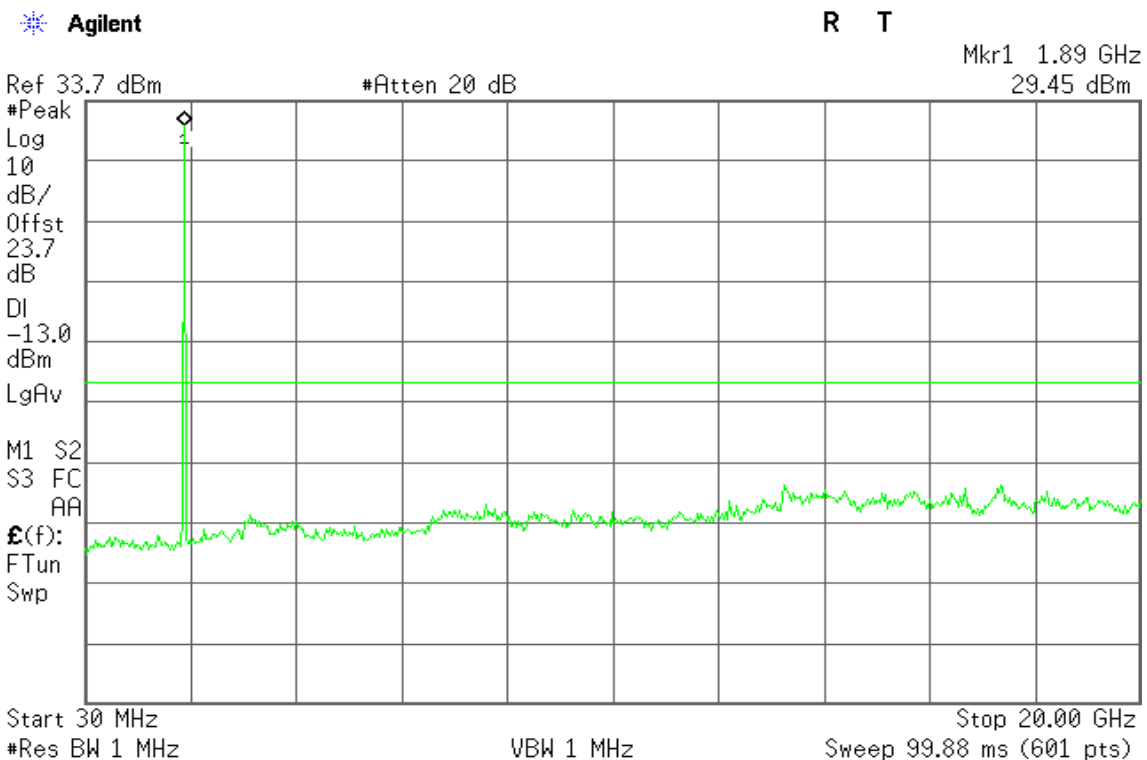
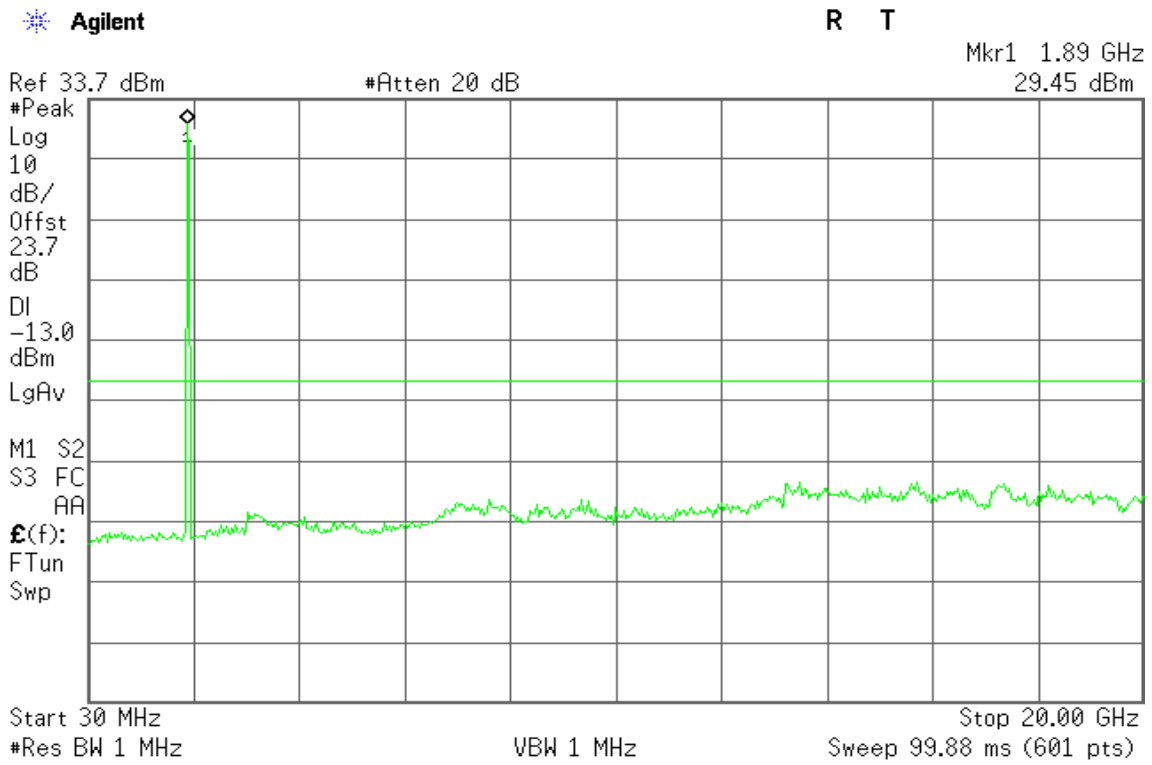




Figure 9-3: Out of Band emission at antenna terminals – GSM CH High





### GPRS 1900

Figure 10-1: Out of Band emission at antenna terminals – GSM CH Low

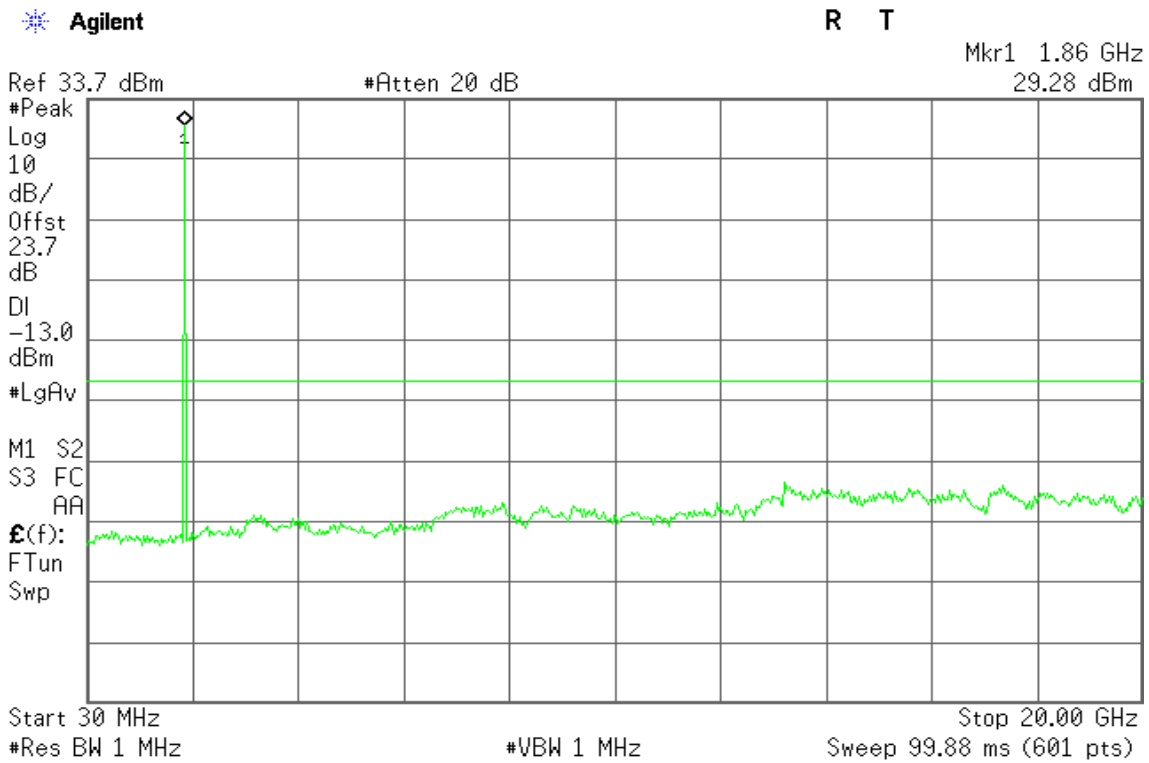


Figure 10-2: Out of Band emission at antenna terminals – GSM CH Mid

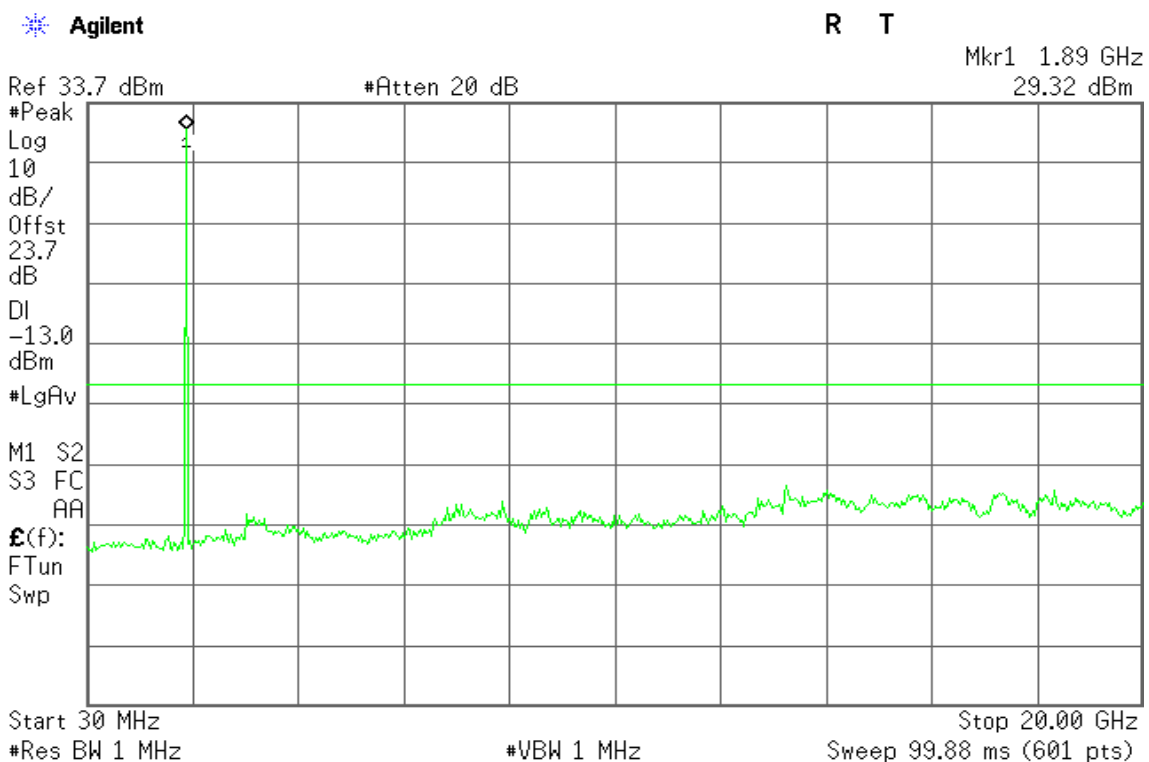
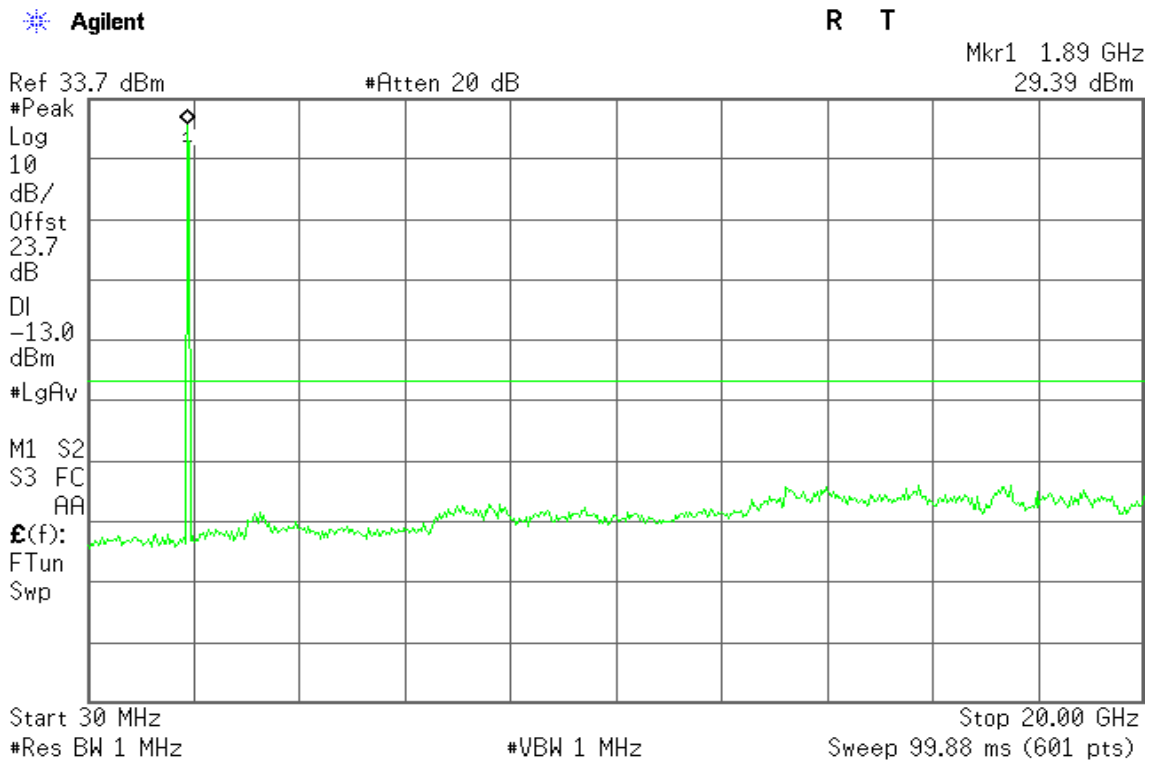






Figure 10-3: Out of Band emission at antenna terminals – GSM CH High





### GSM 850

Figure 11-1: Band Edge emissions – GSM CH Low

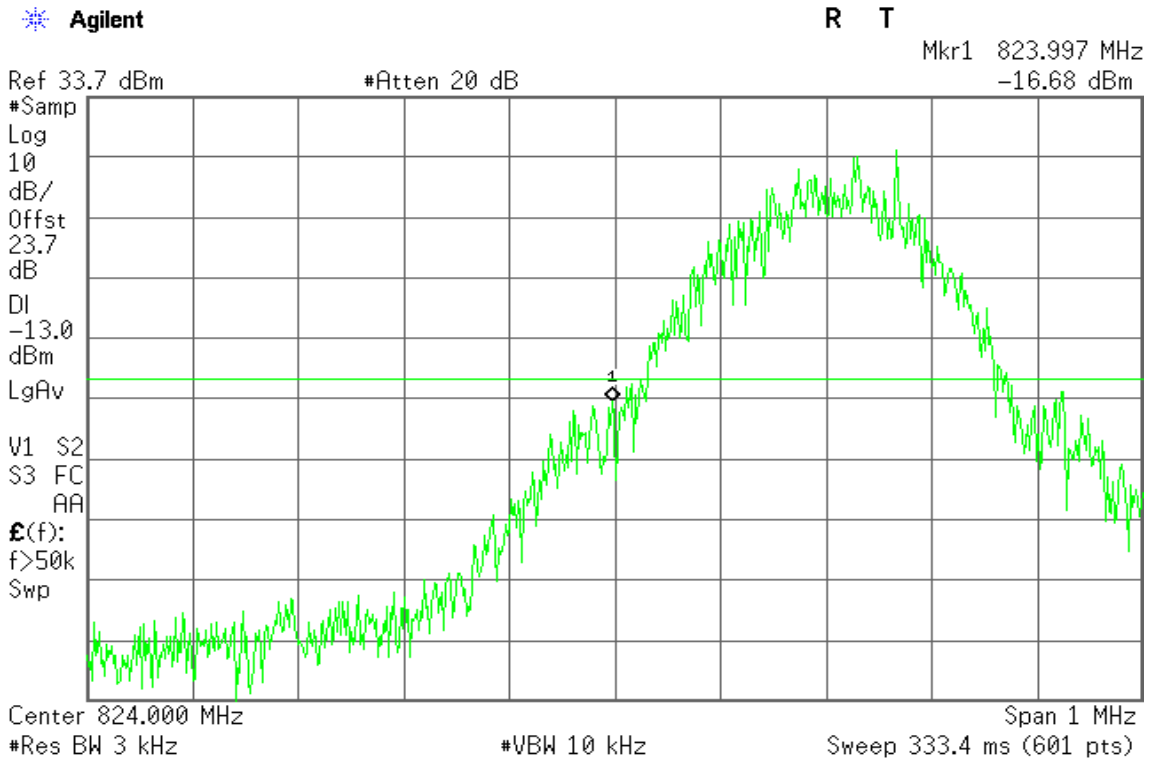
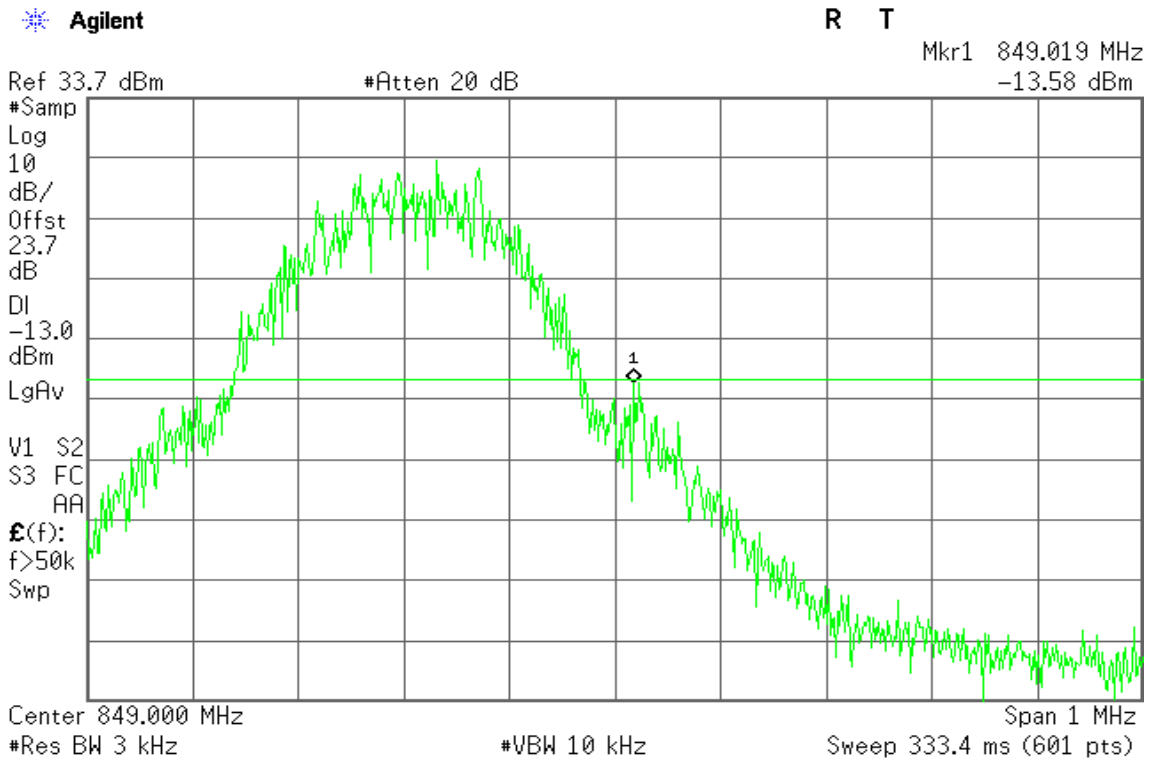


Figure 11-2: Band Edge emissions – GSM CH High





### GPRS 850

Figure 12-1: Band Edge emissions – GPRS CH Low

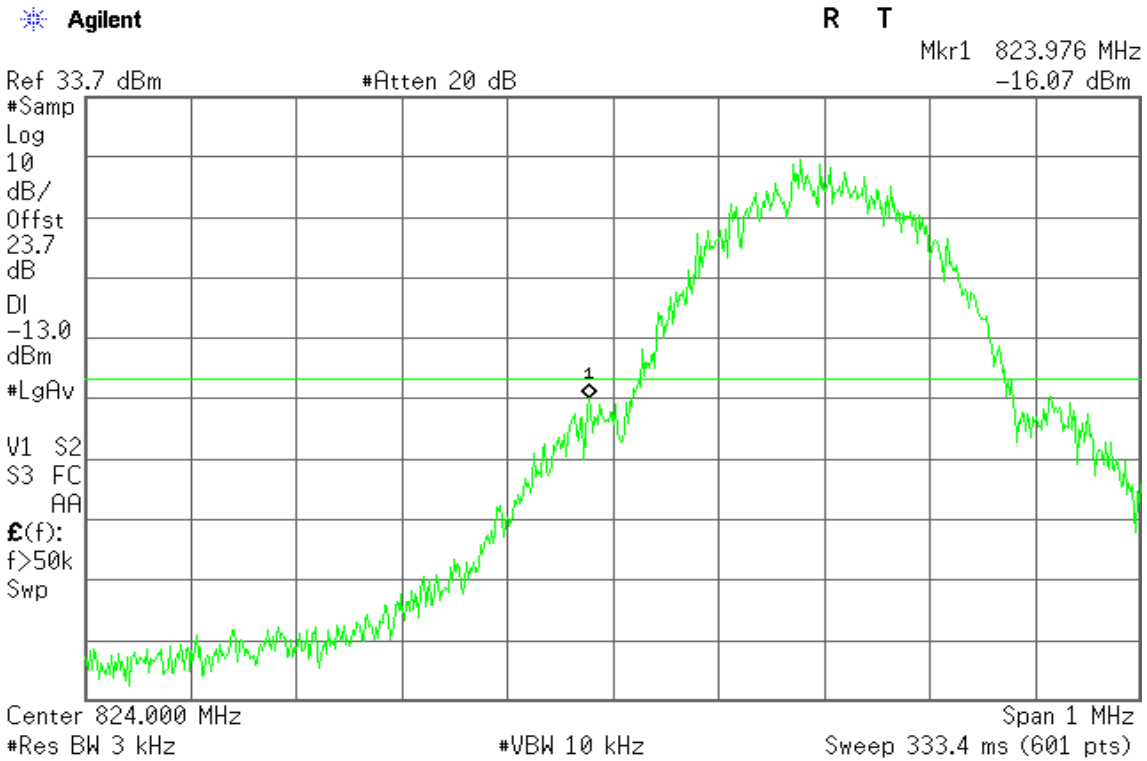
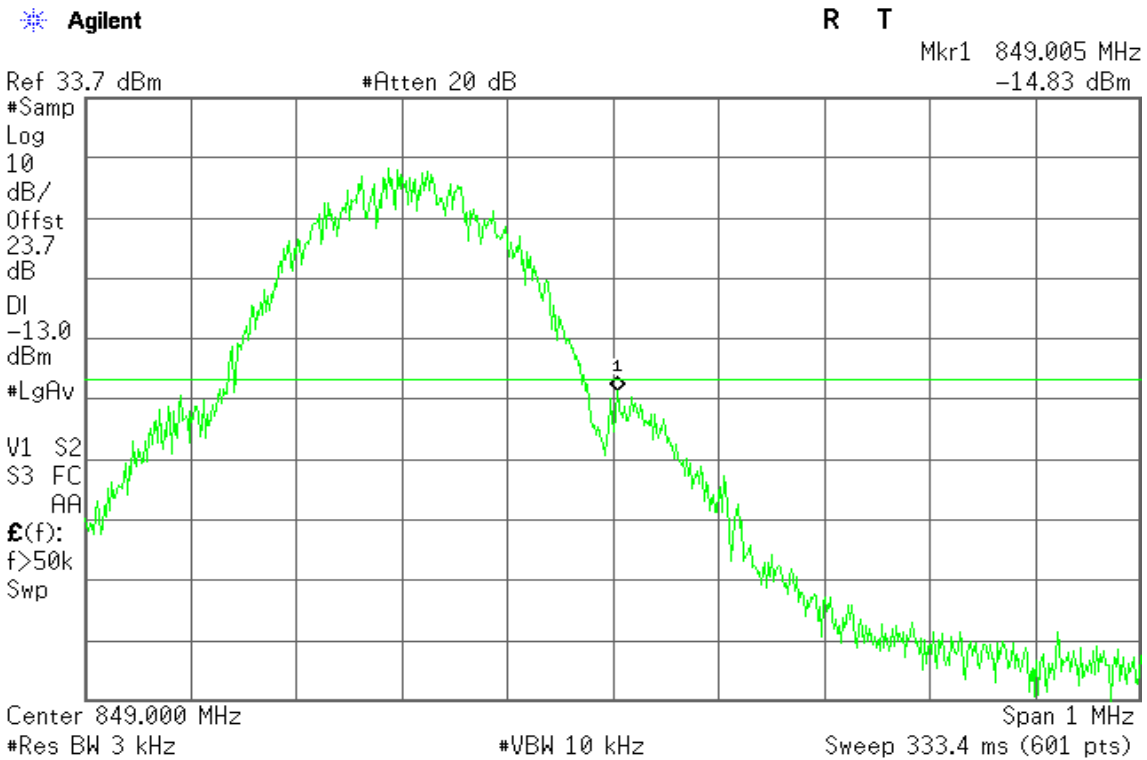


Figure 12-2: Band Edge emissions –GPRS CH High





### GSM 1900

Figure 13-1: Band Edge emissions – GSM CH Low

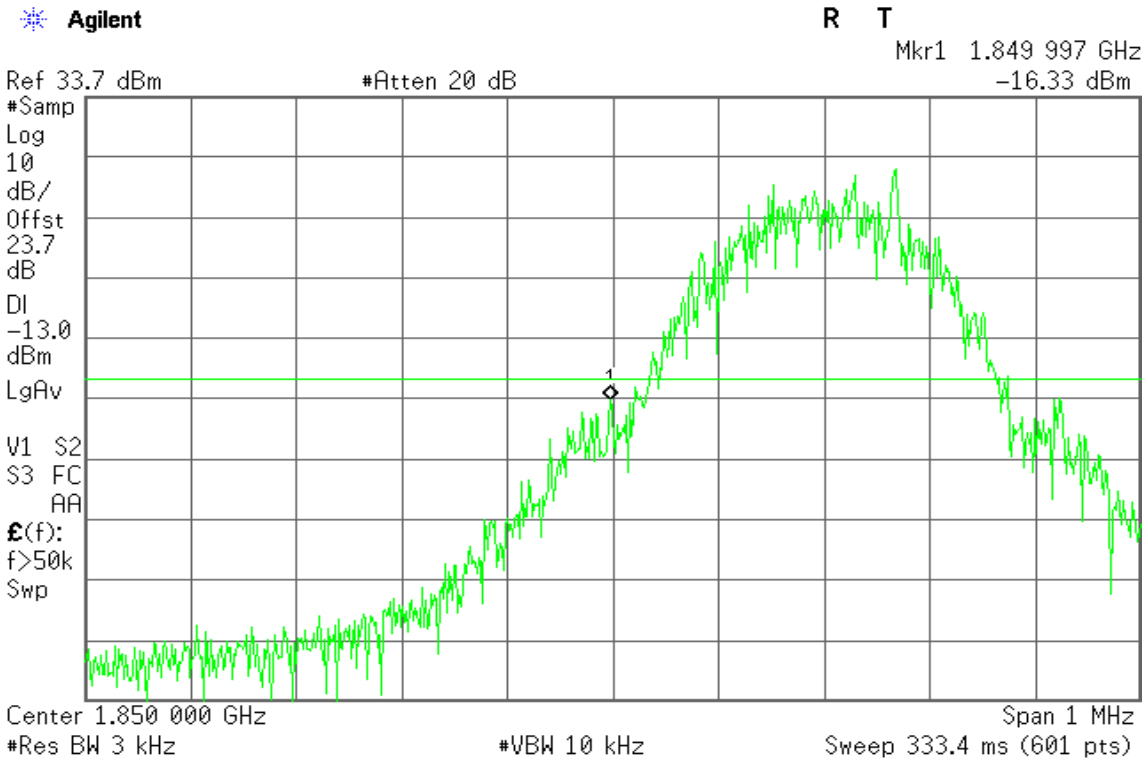
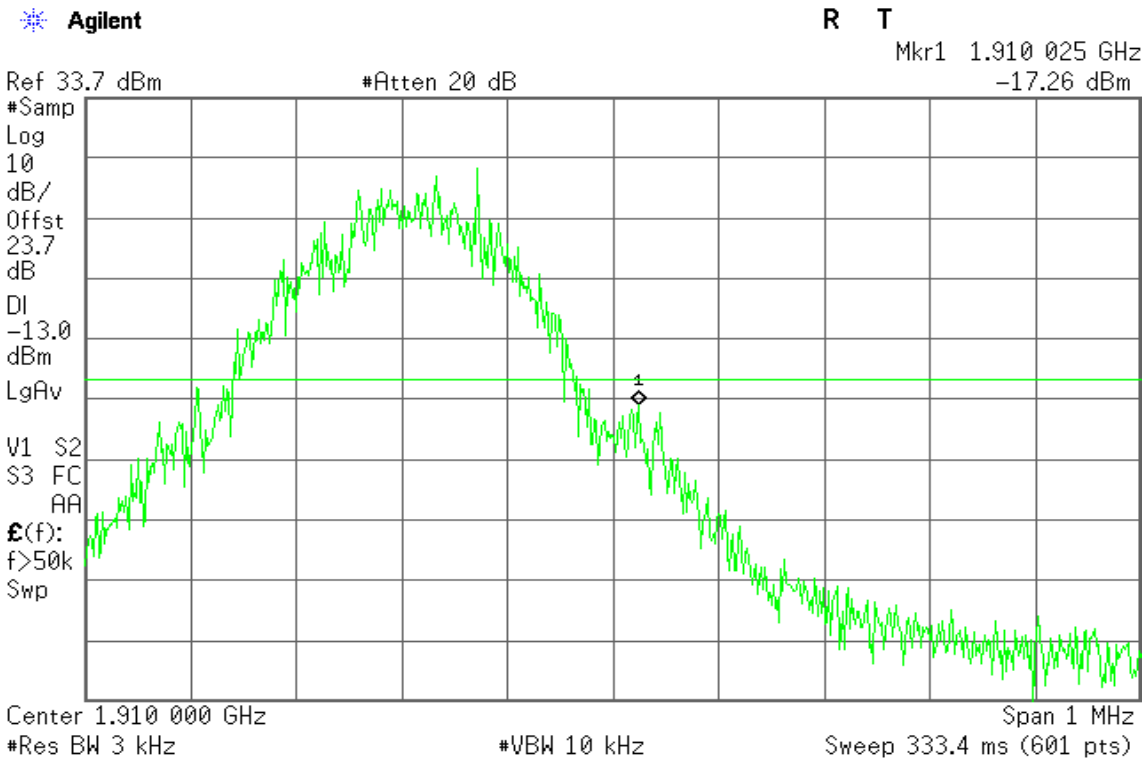


Figure 13-2: Band Edge emissions – GSM CH High





### GPRS 1900

Figure 14-1: Band Edge emissions – GPRS CH Low

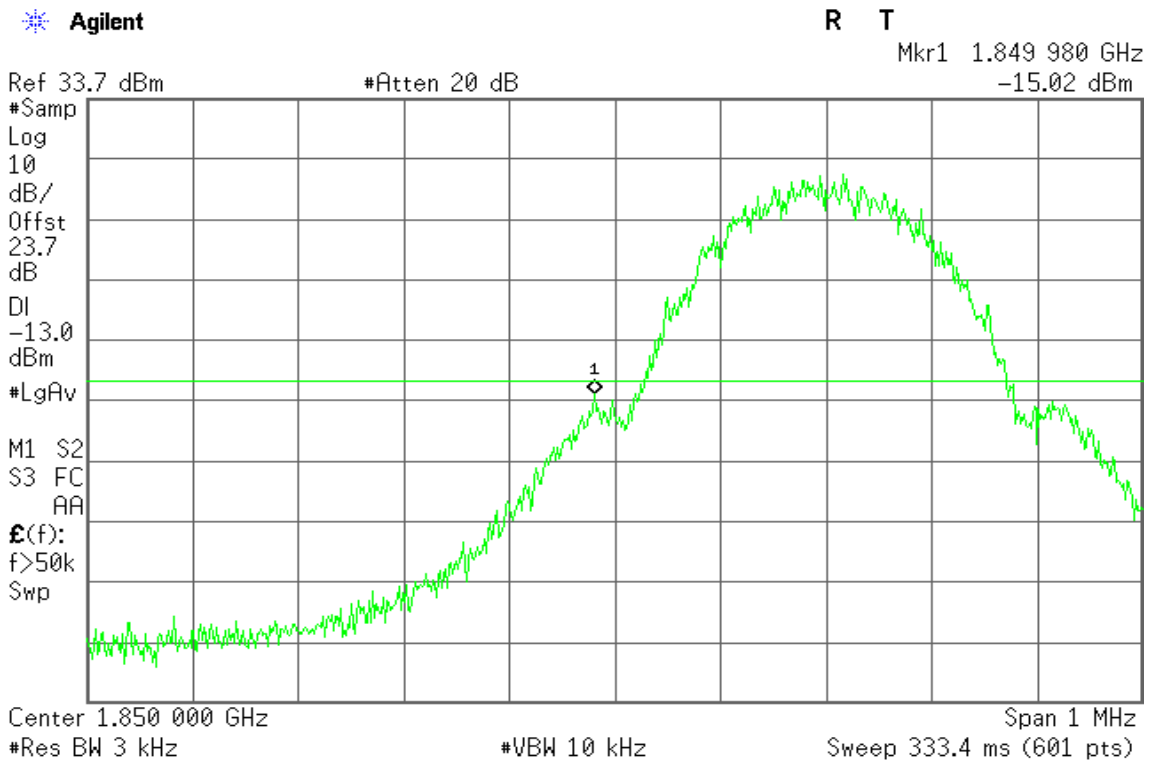
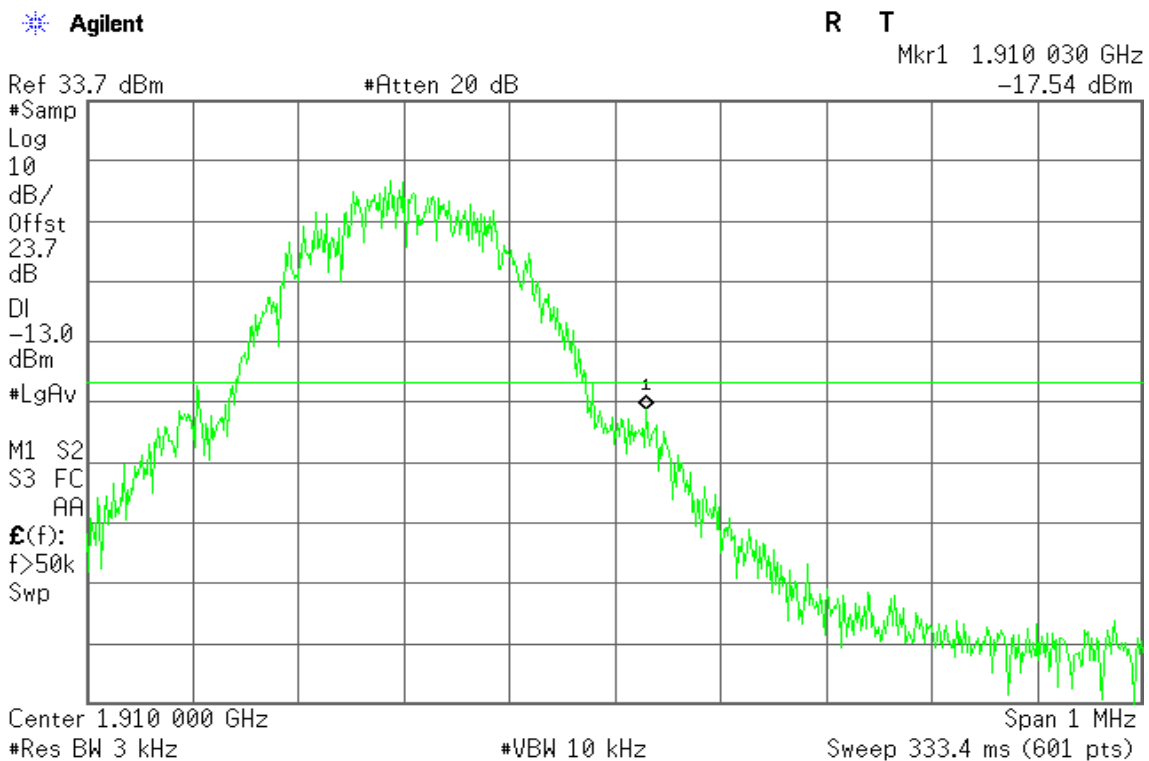


Figure 14-2: Band Edge emissions – GPRS CH High





### EDGE 850

Figure 15-1: Out of Band emission at antenna terminals –EDGE CH Low

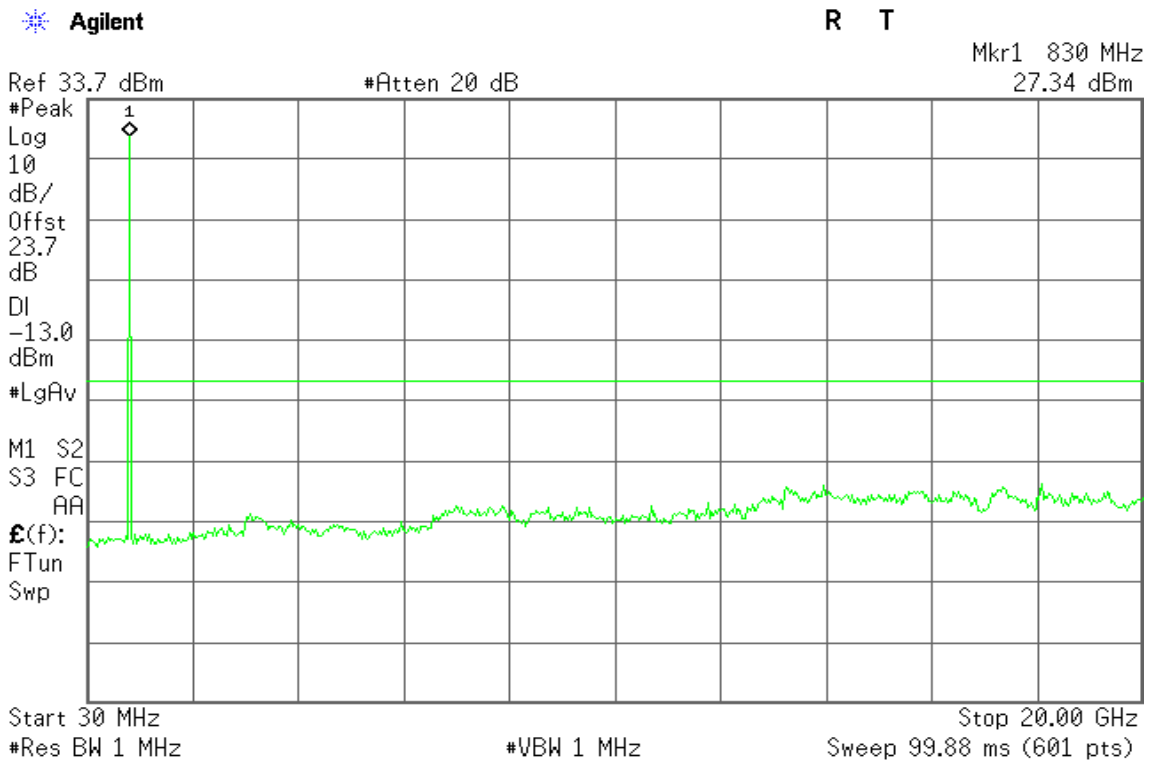


Figure 15-2: Out of Band emission at antenna terminals –EDGE CH Mid

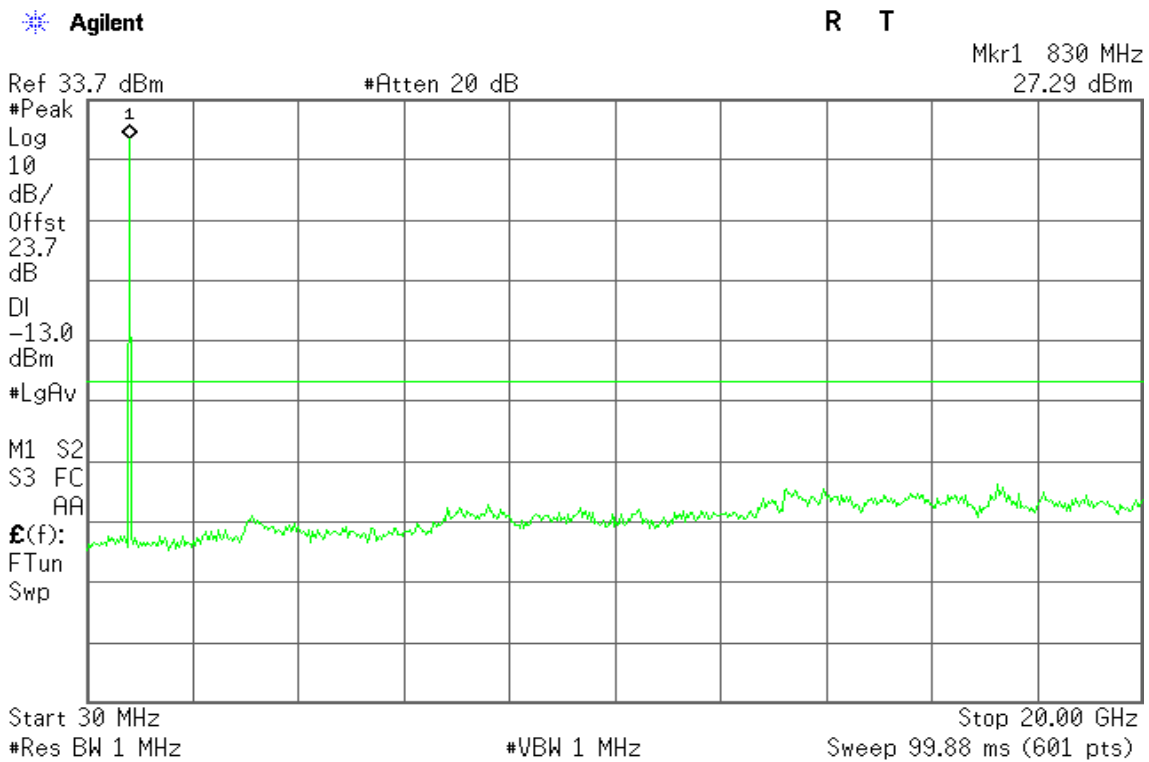
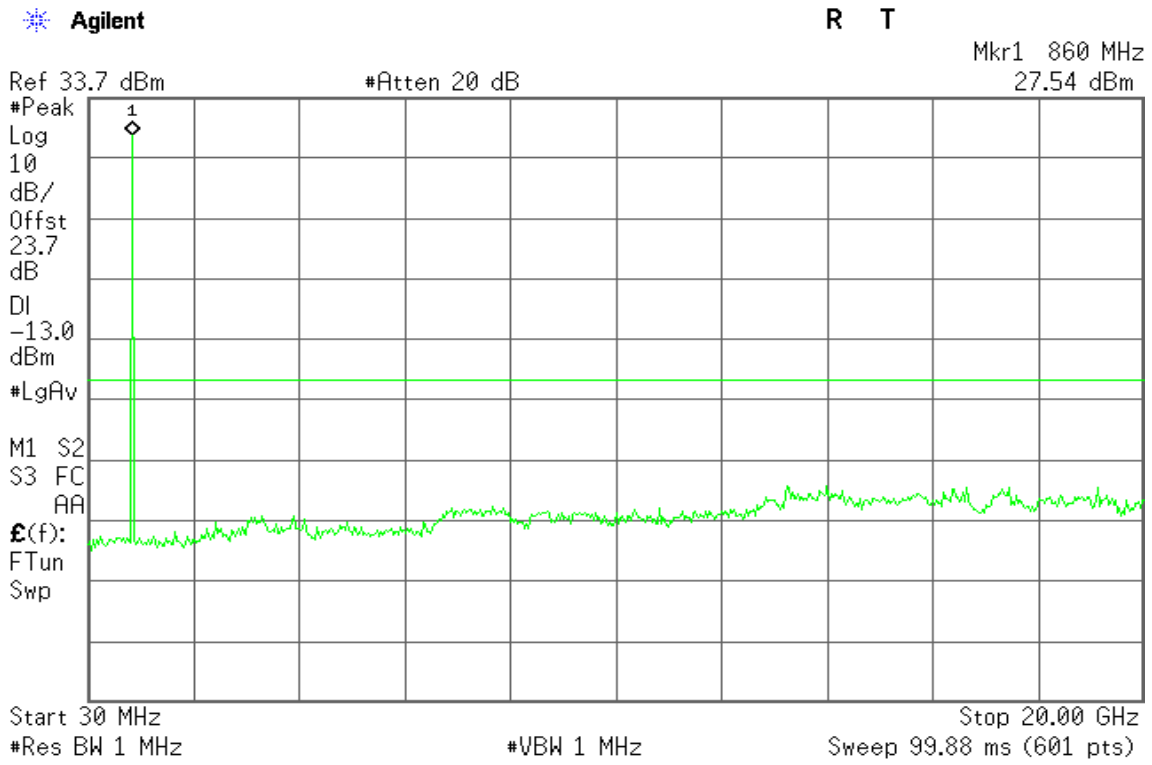




Figure 15-3: Out of Band emission at antenna terminals –EDGE CH High





### EDGE 1900

Figure 16-1: Out of Band emission at antenna terminals –EDGE CH Low

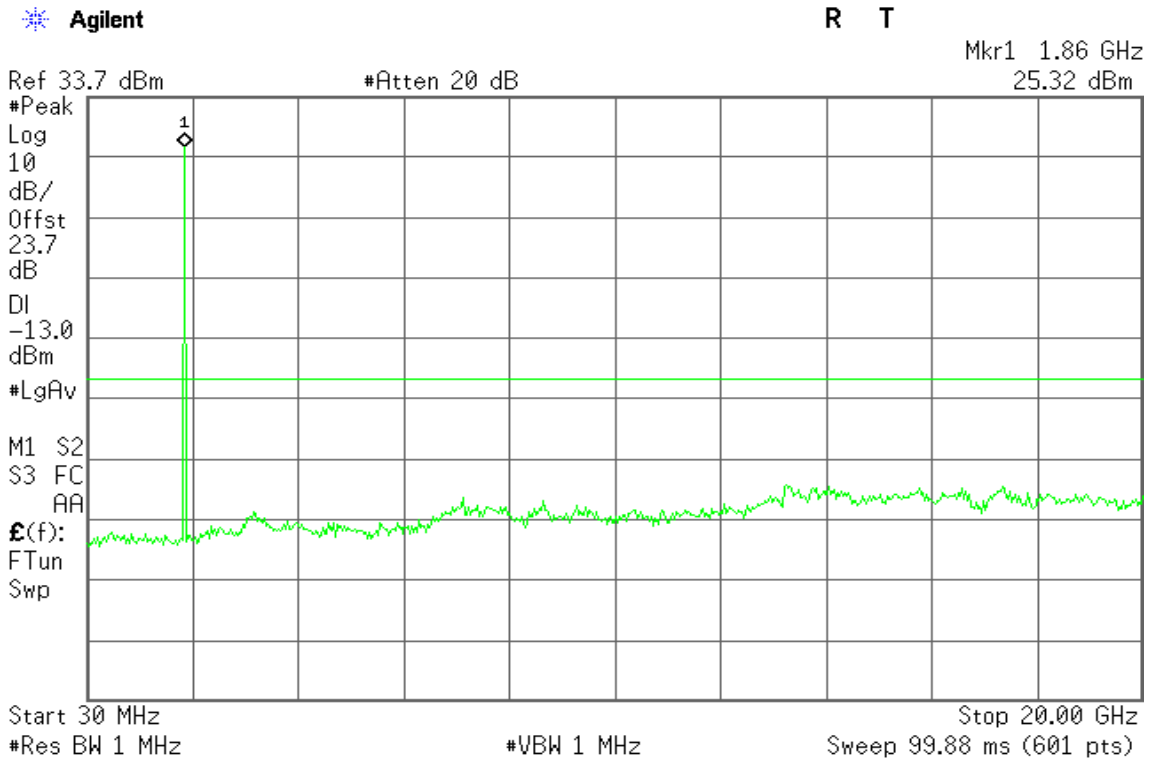


Figure 16-2: Out of Band emission at antenna terminals –EDGE CH Mid

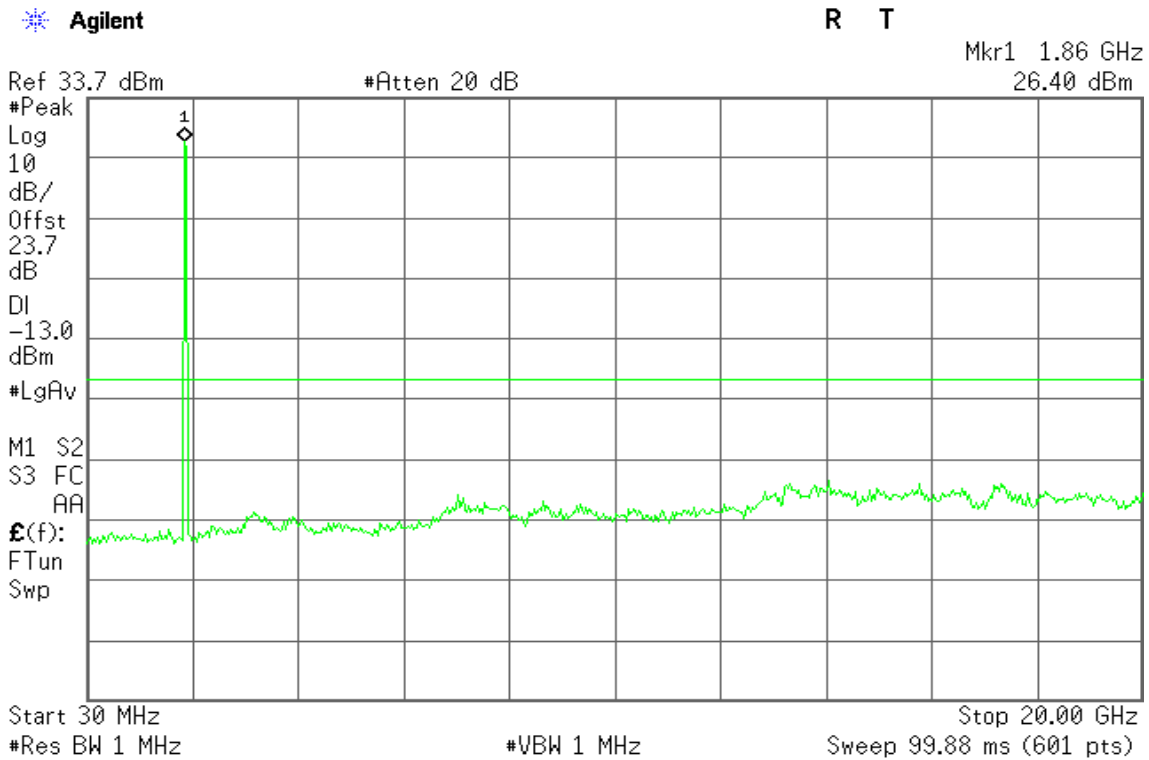
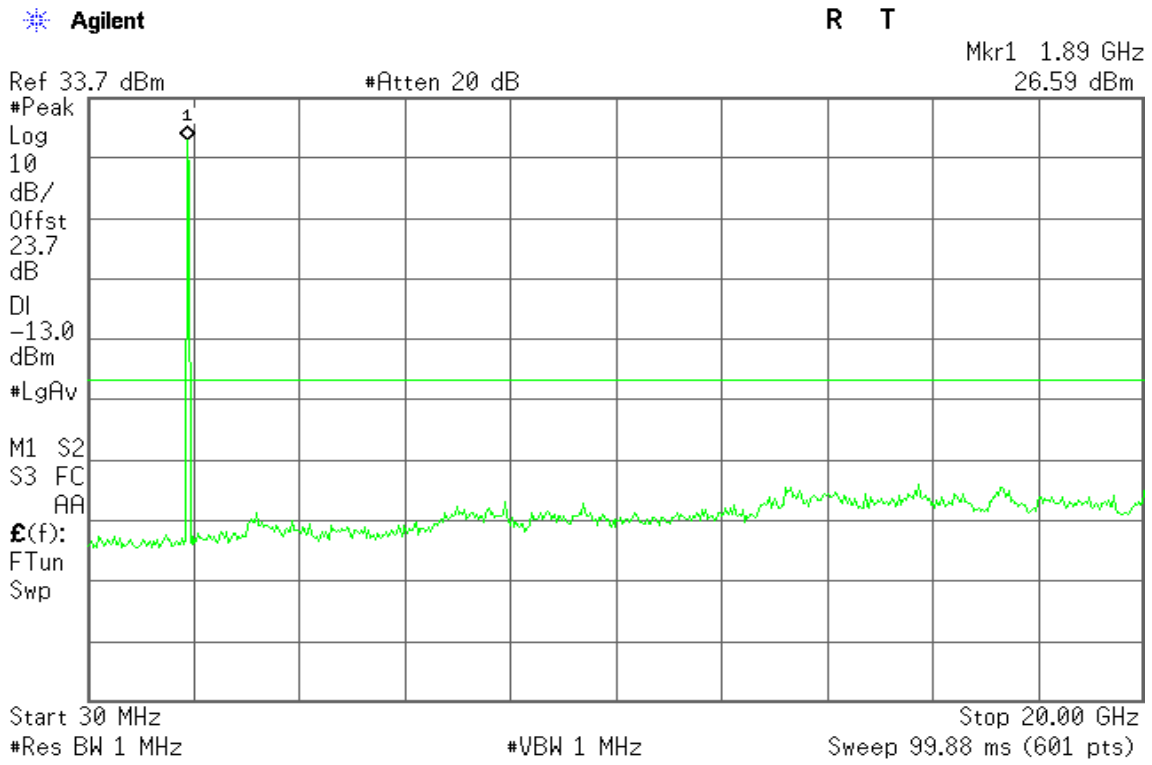






Figure 16-3: Out of Band emission at antenna terminals –EDGE CH High





### EDGE 850

Figure 17-1: Band Edge emissions – EDGE CH Low

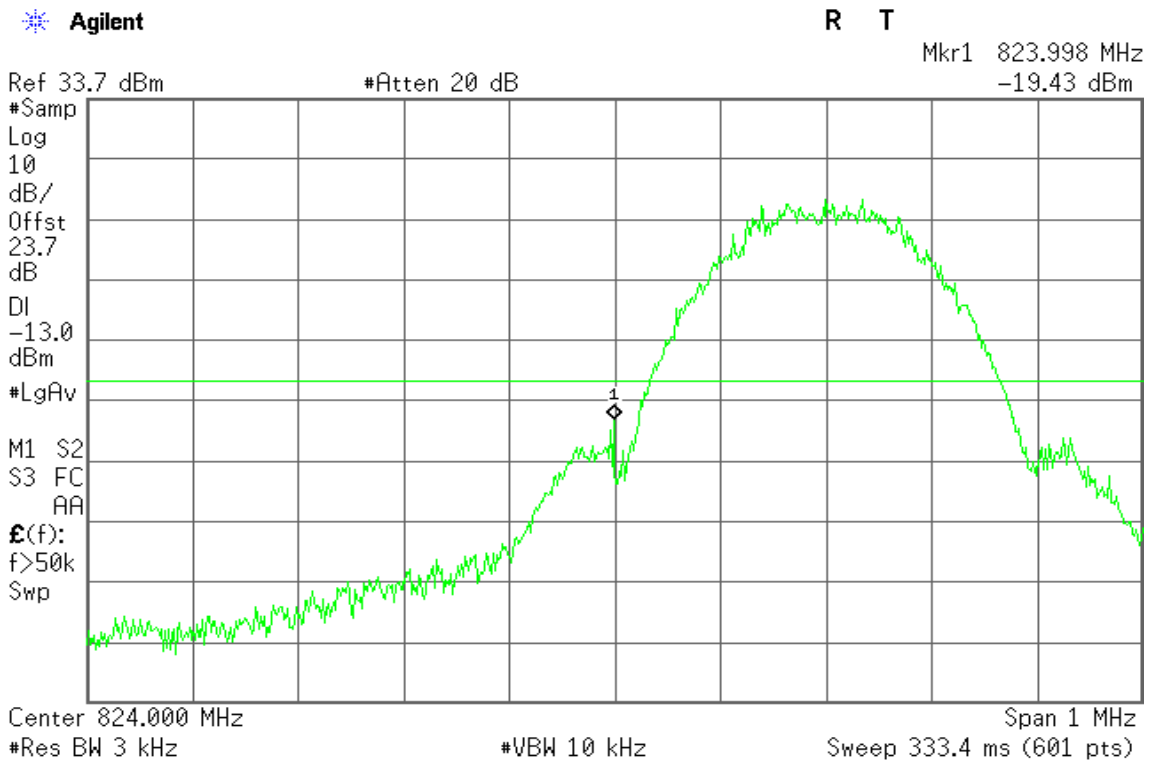
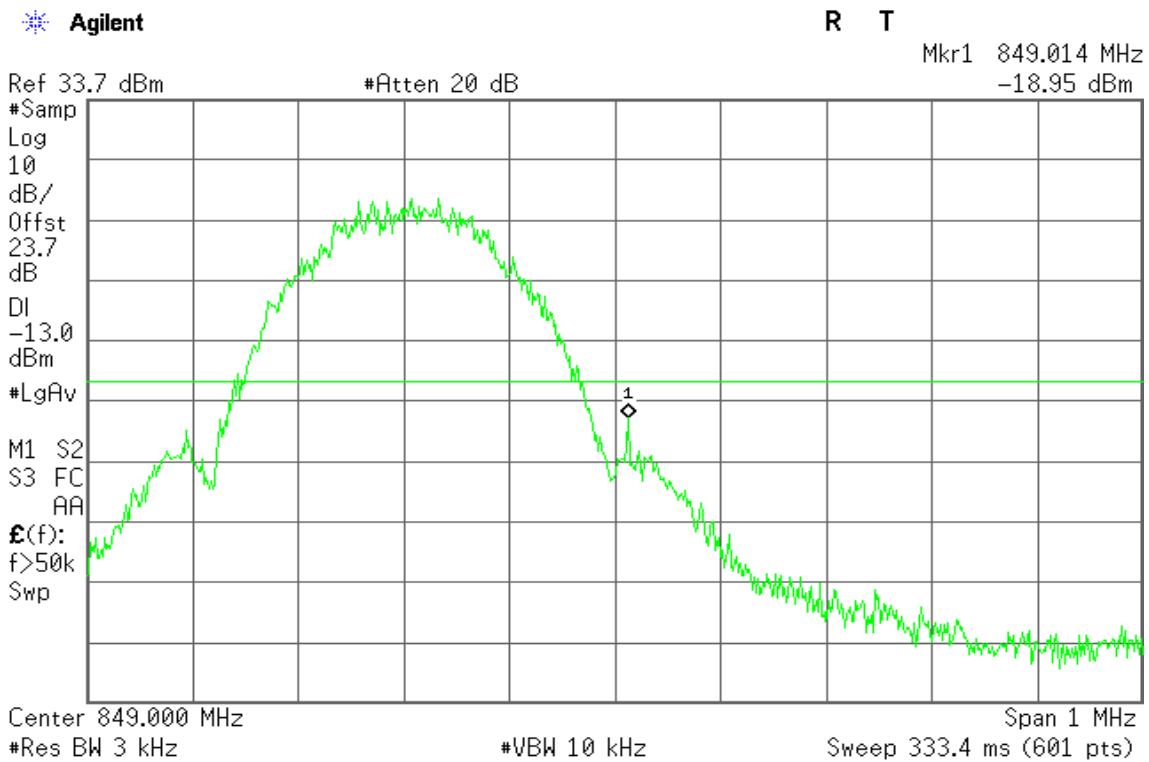


Figure 17-2: Band Edge emissions – EDGE CH High





### EDGE 1900

Figure 18-1: Band Edge emissions – EDGE CH Low

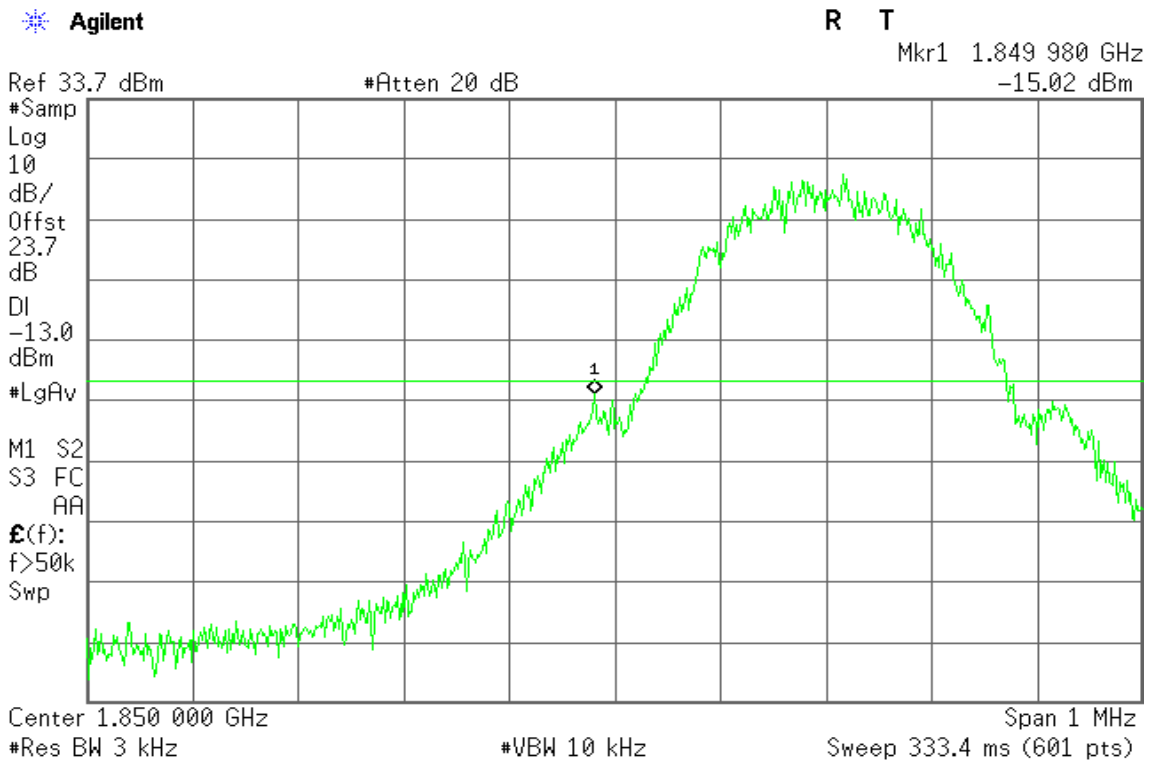
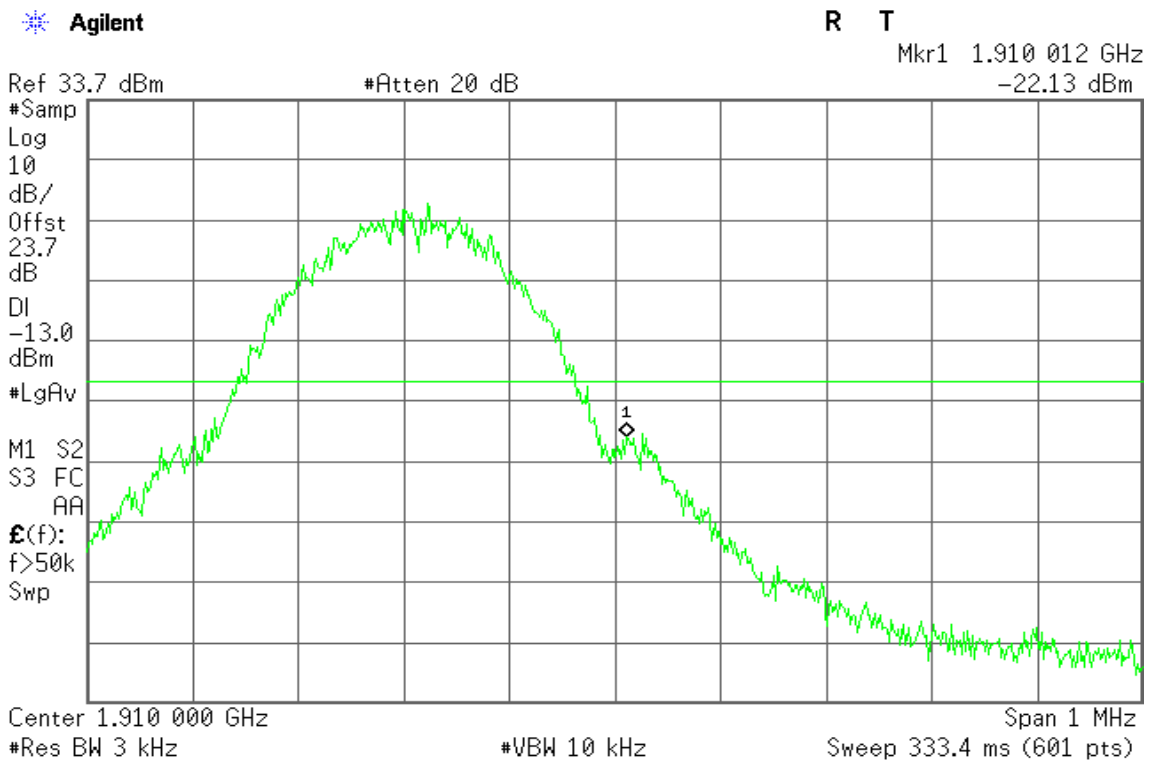


Figure 18-2: Band Edge emissions – EDGE CH High





### WCDMA Band II

Figure 19-1: Out of Band emission at antenna terminals – WCDMA CH Low

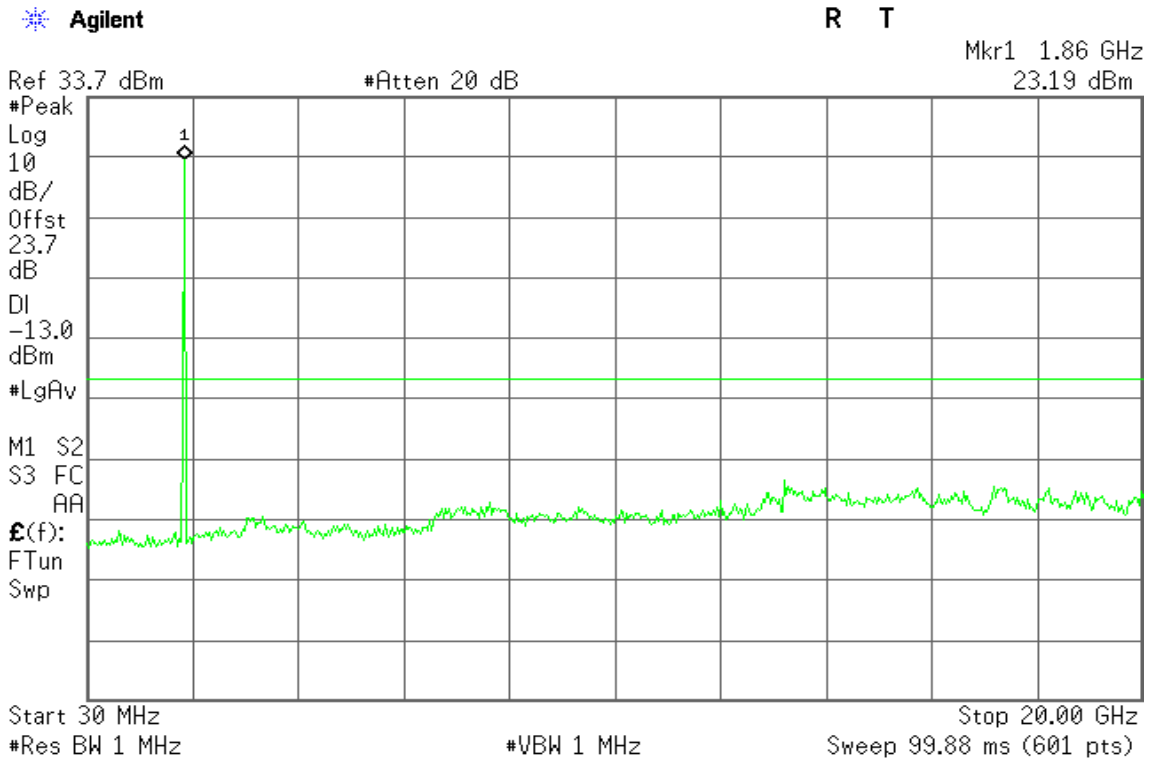


Figure 19-2: Out of Band emission at antenna terminals – WCDMA CH Mid

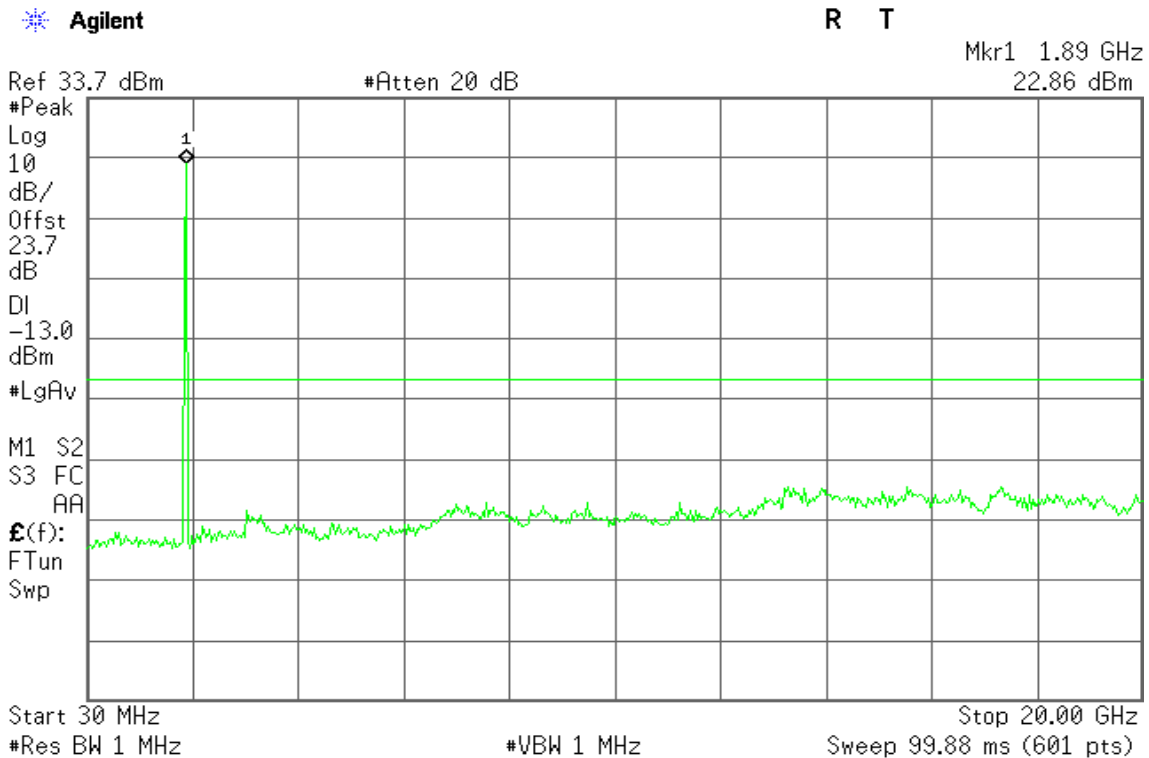
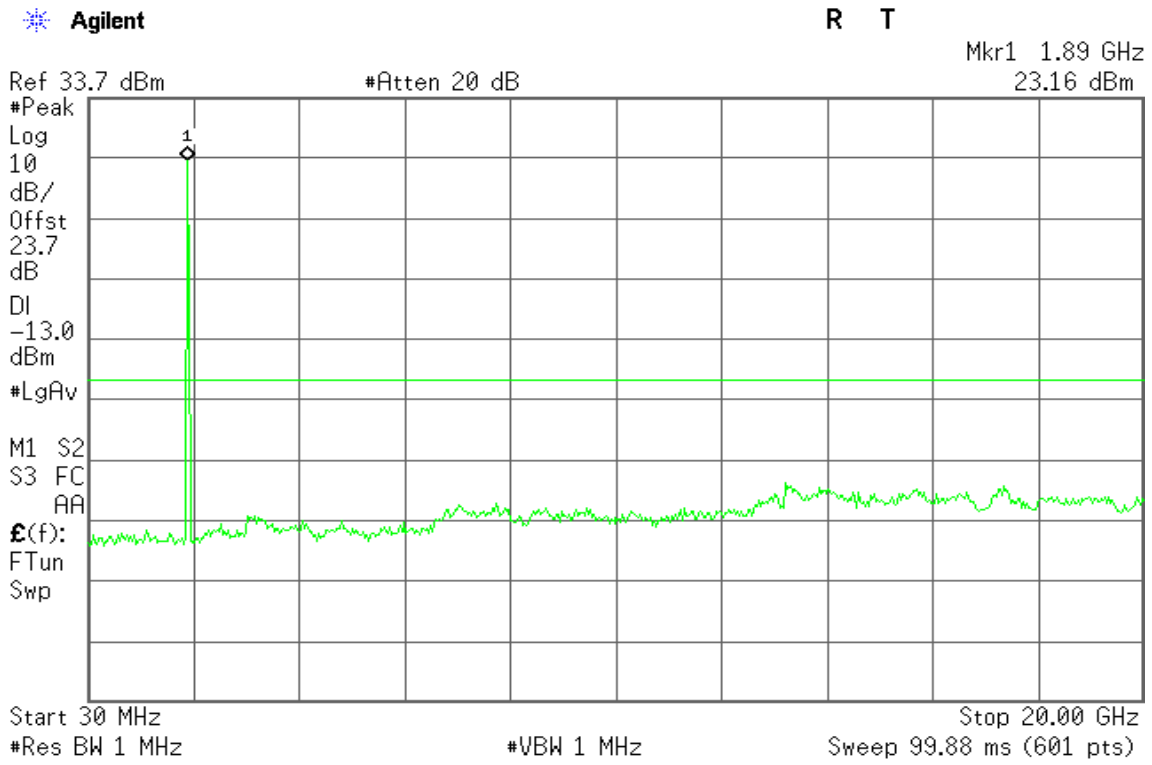




Figure 19-3: Out of Band emission at antenna terminals – WCDMA CH High





### WCDMA Band V

Figure 20-1: Out of Band emission at antenna terminals – WCDMA CH Low

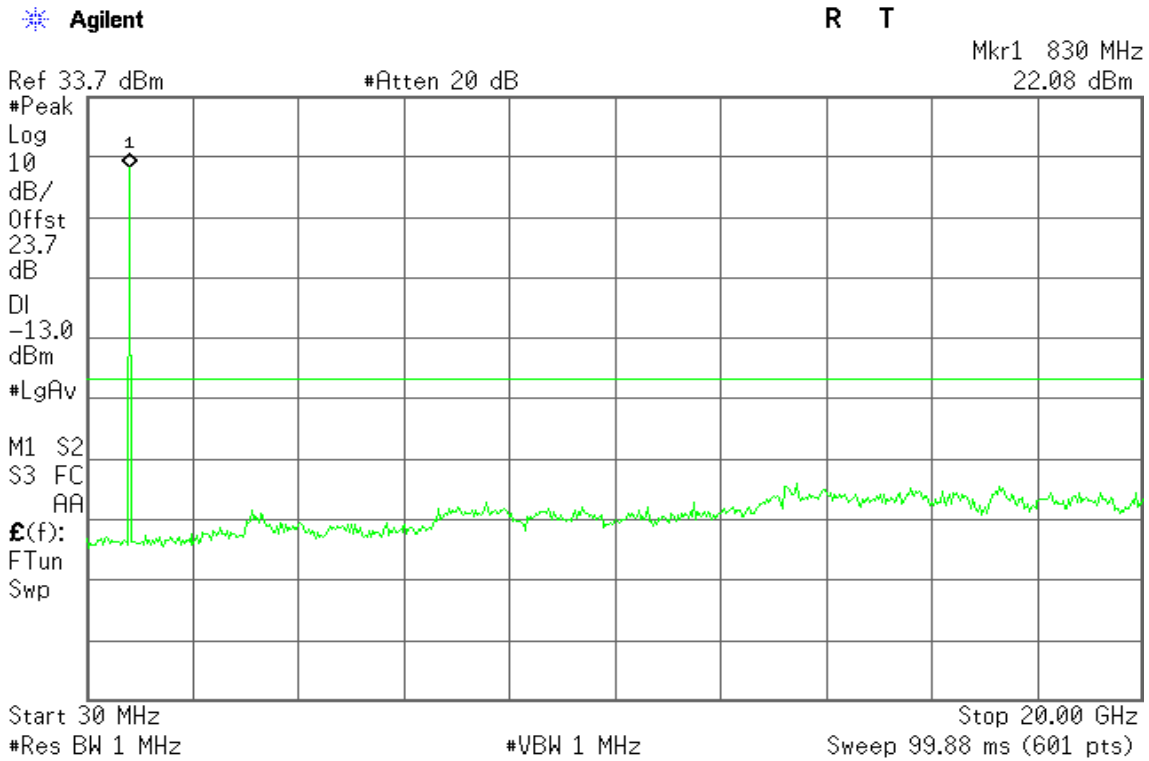


Figure 20-2: Out of Band emission at antenna terminals – WCDMA CH Mid

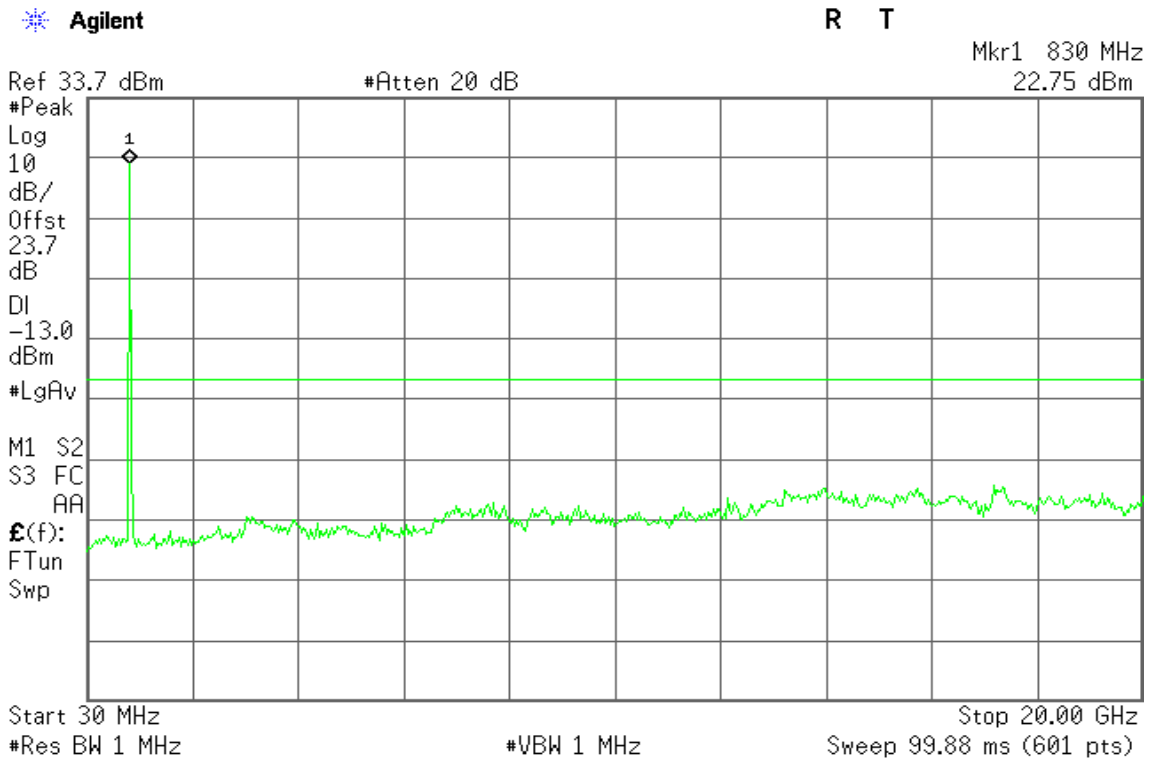
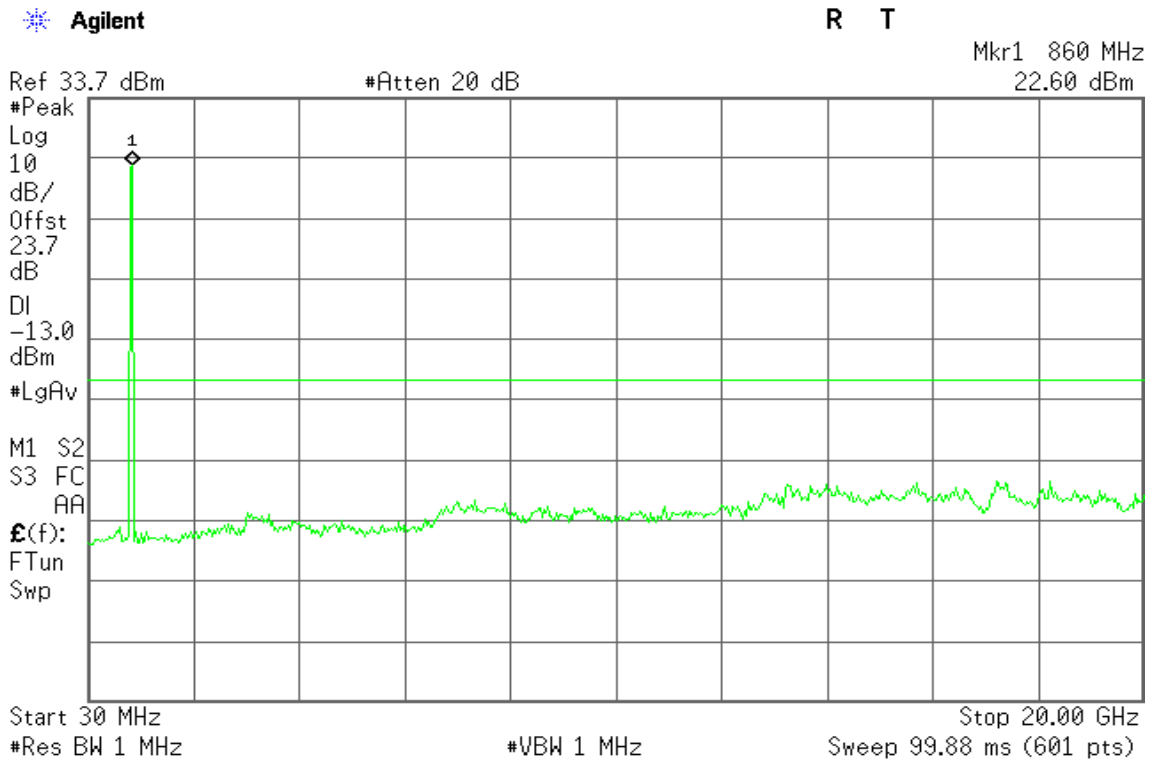




Figure 20-3: Out of Band emission at antenna terminals – WCDMA CH High





### WCDMA Band II

Figure 21-1: Band Edge emissions – WCDMA CH Low

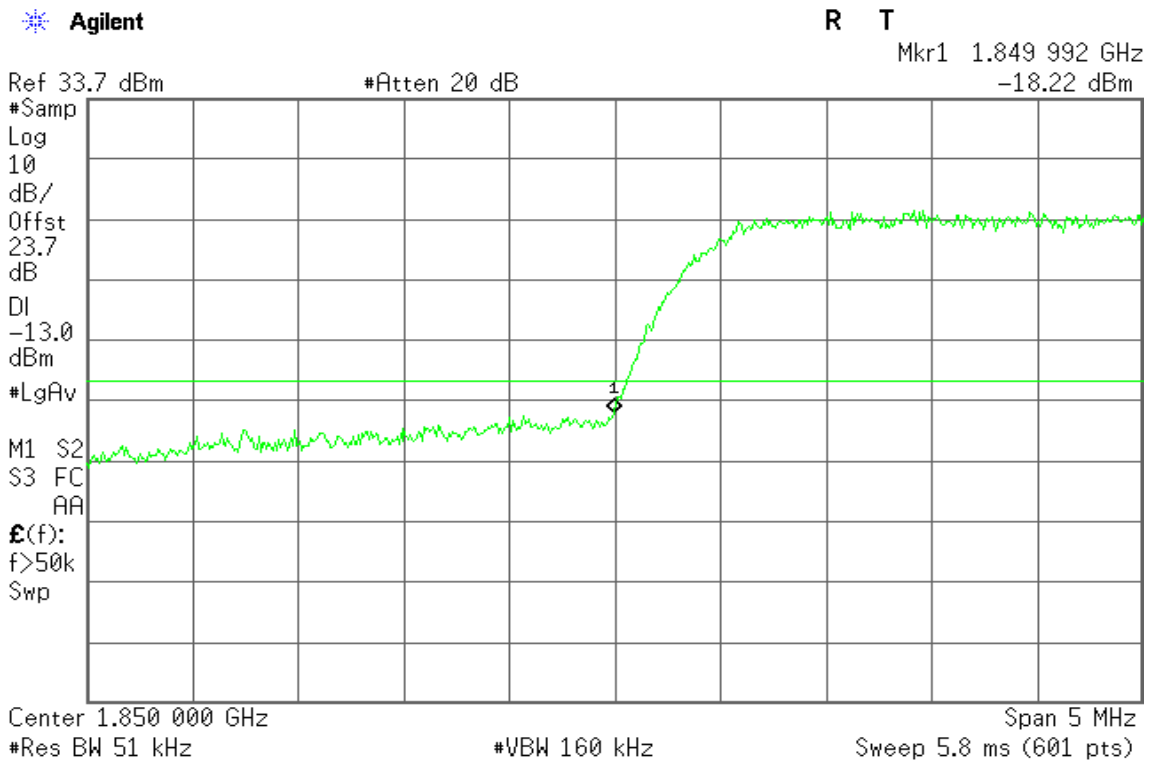
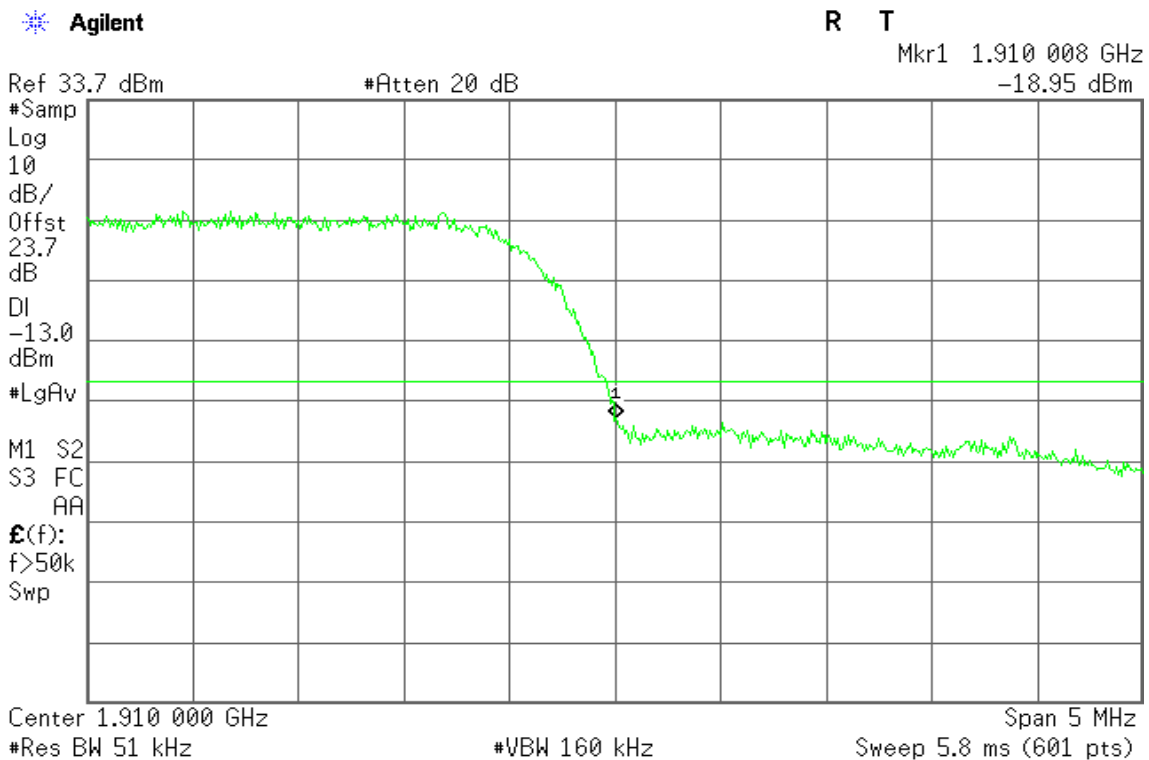


Figure 21-2: Band Edge emissions –WCDMA CH High







### WCDMA Band V

Figure 22-1: Band Edge emissions –WCDMA CH Low

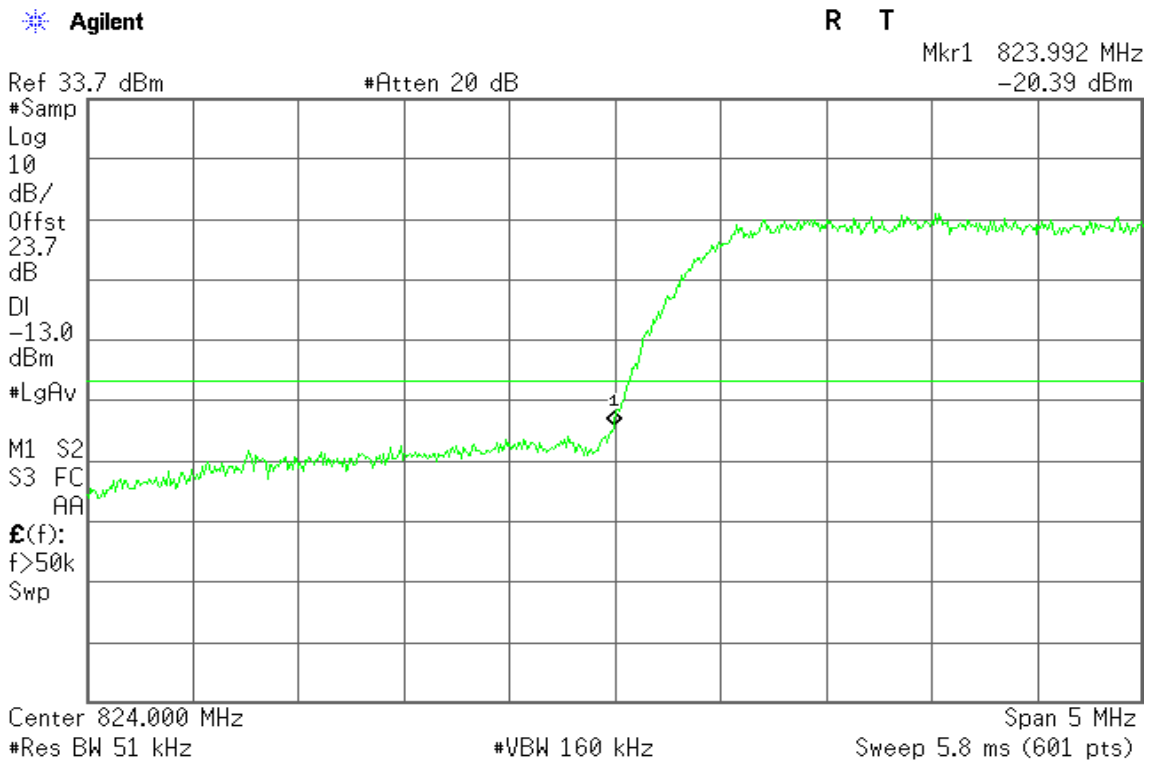
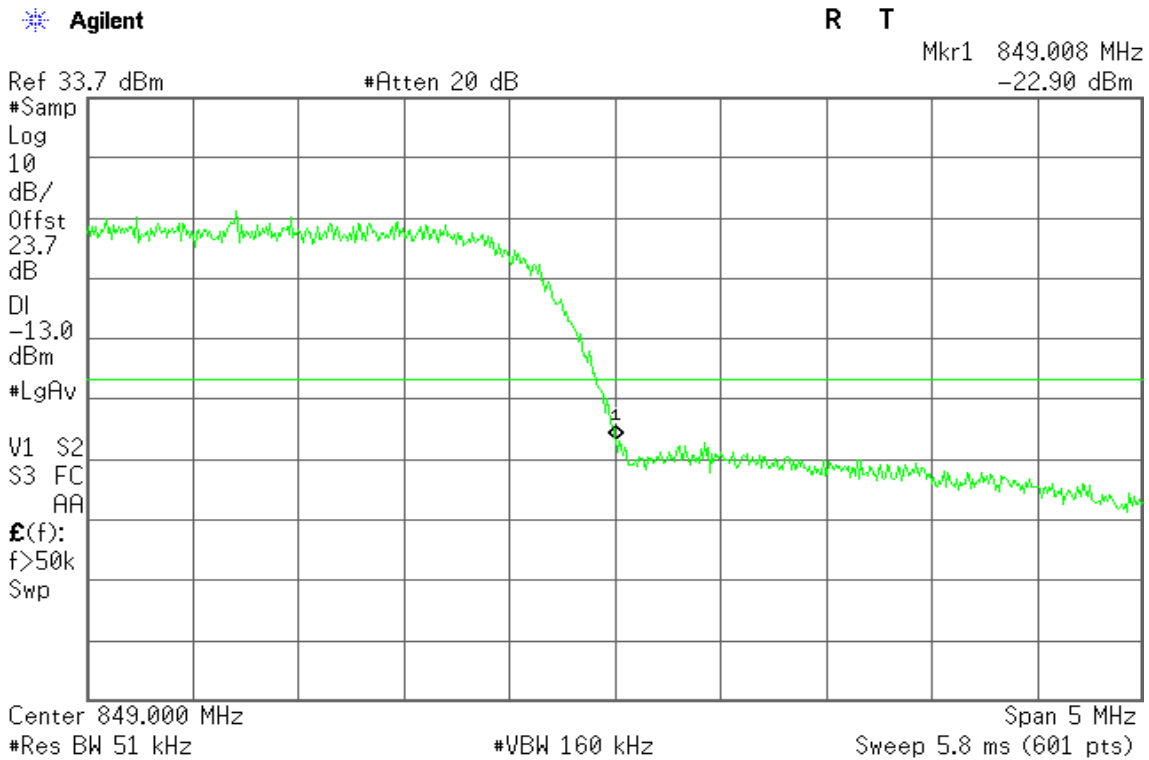


Figure 22-2: Band Edge emissions –WCDMA CH High





### WCDMA / HSDPA Band II

Figure 23-1: Out of Band emission at antenna terminals – HSDPA CH Low

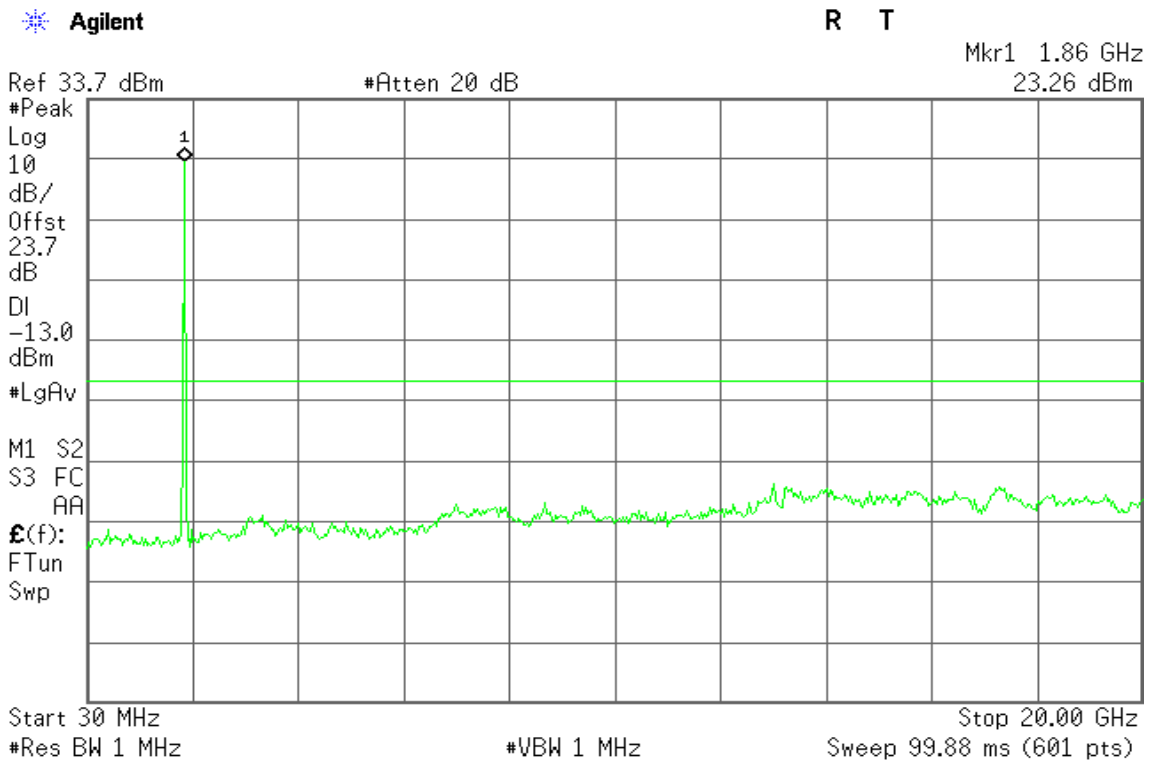


Figure 23-2: Out of Band emission at antenna terminals – HSDPA CH Mid

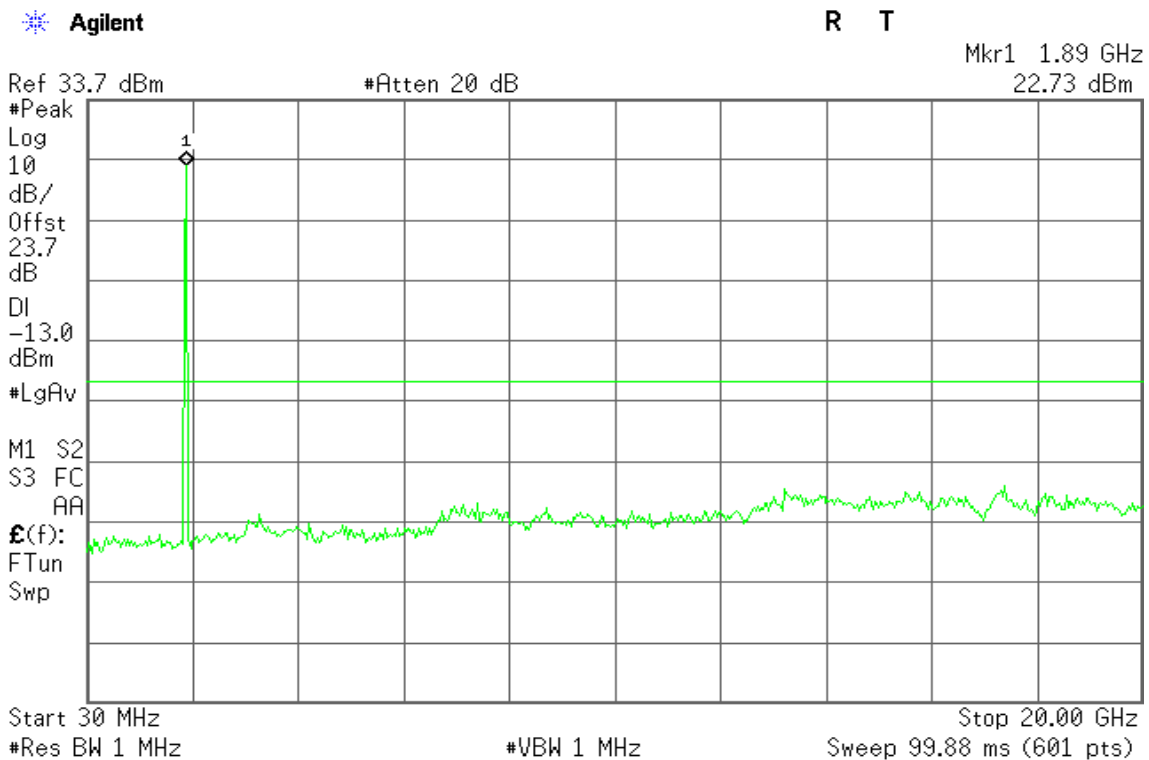
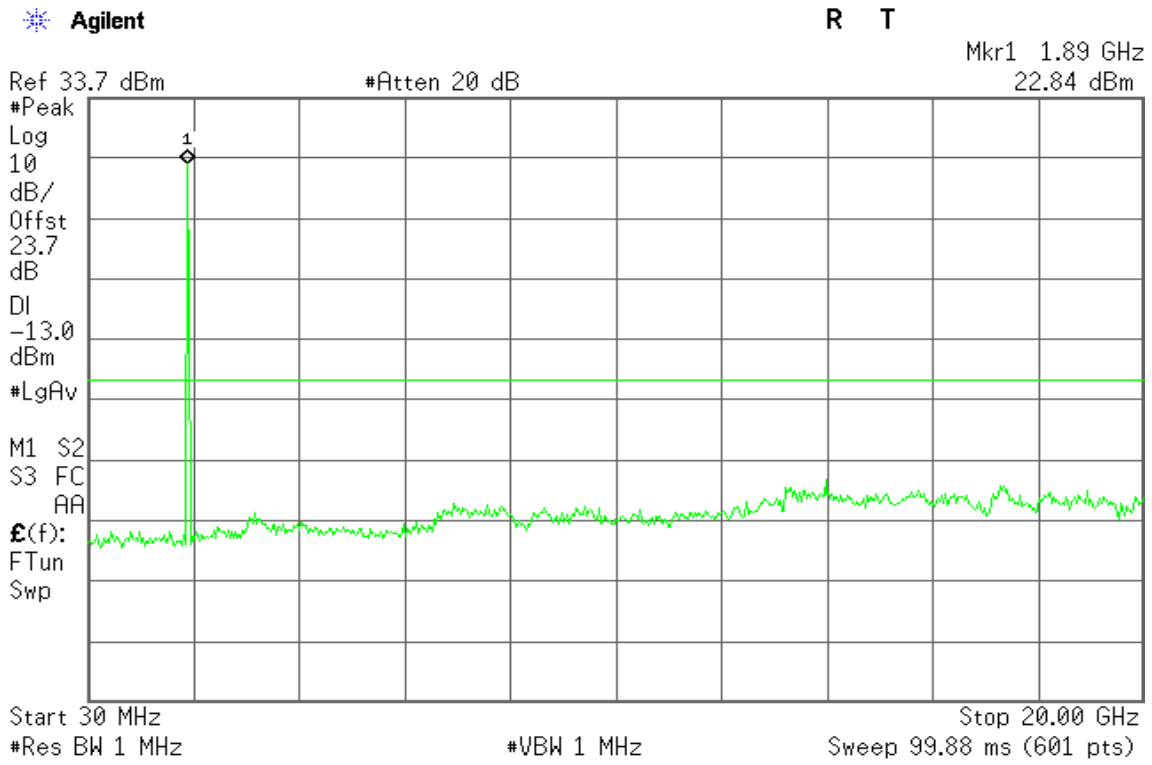




Figure 23-3: Out of Band emission at antenna terminals – HSDPA CH High





### WCDMA / HSDPA Band V

Figure 21-1: Out of Band emission at antenna terminals – HSDPA CH Low

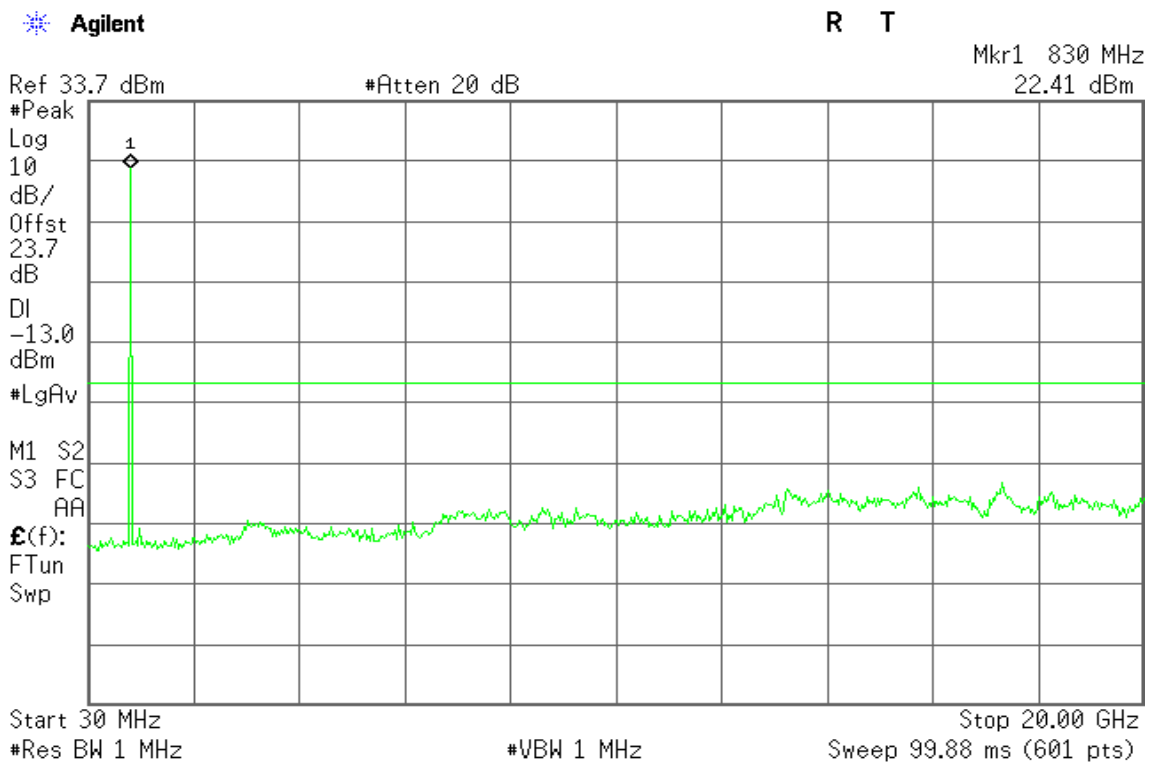


Figure 24-2: Out of Band emission at antenna terminals – HSDPA CH Mid

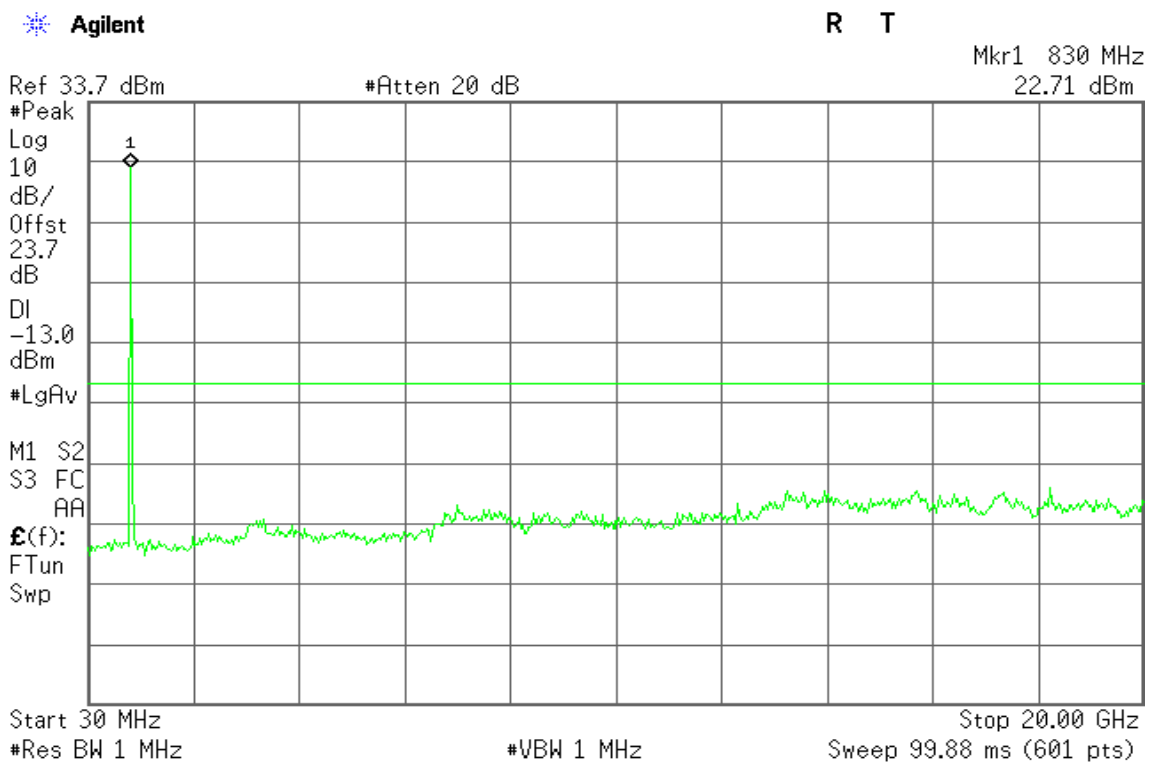
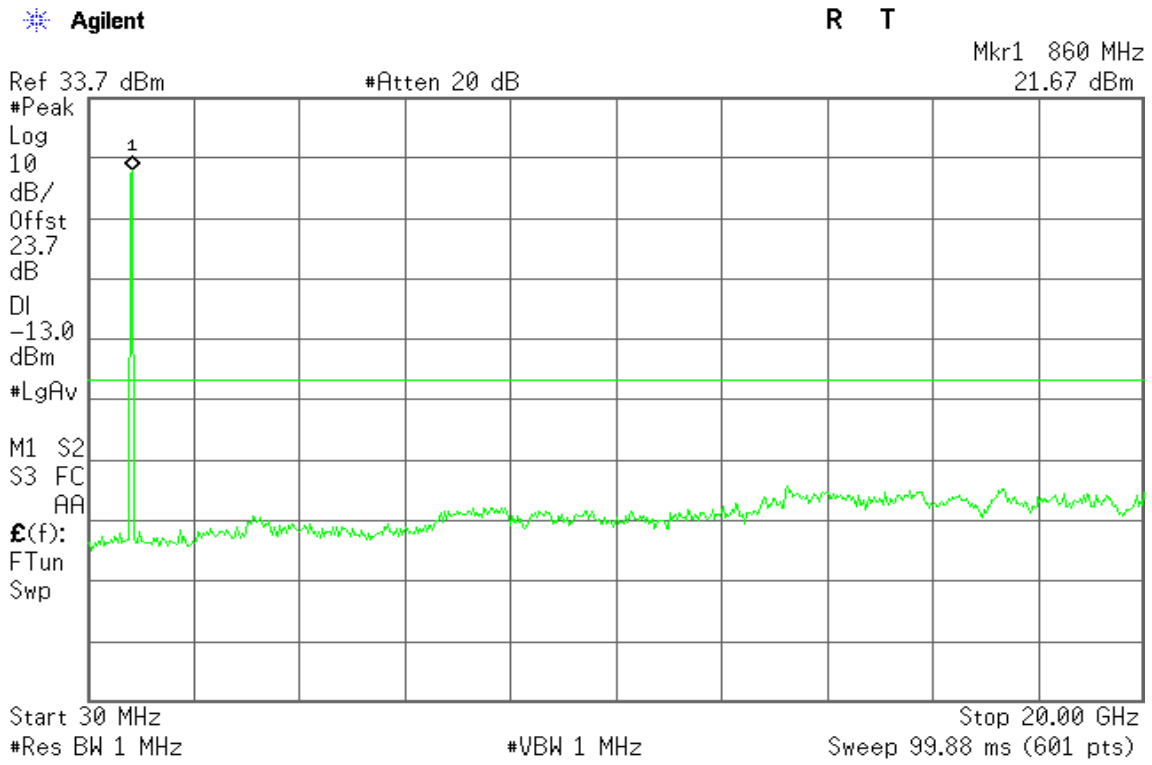




Figure 24-3: Out of Band emission at antenna terminals – HSDPA CH High





### WCDMA / HSDPA Band II

Figure 25-1: Band Edge emissions – HSDPA CH Low

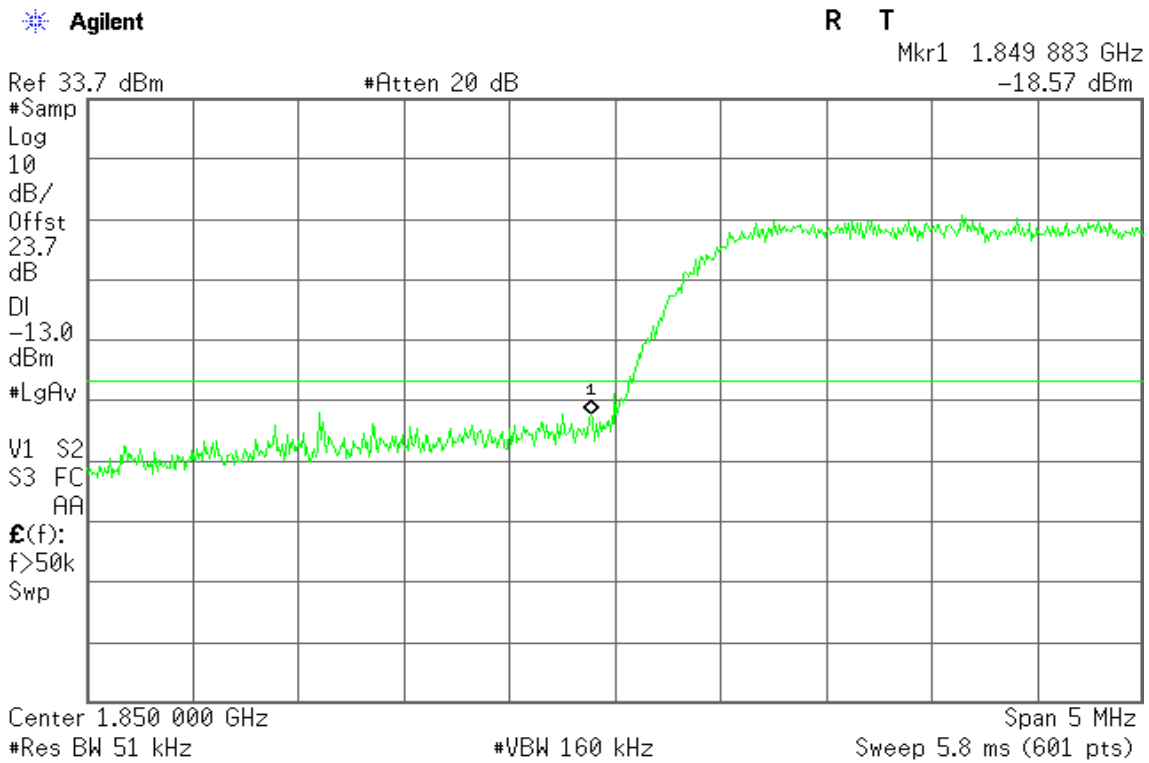
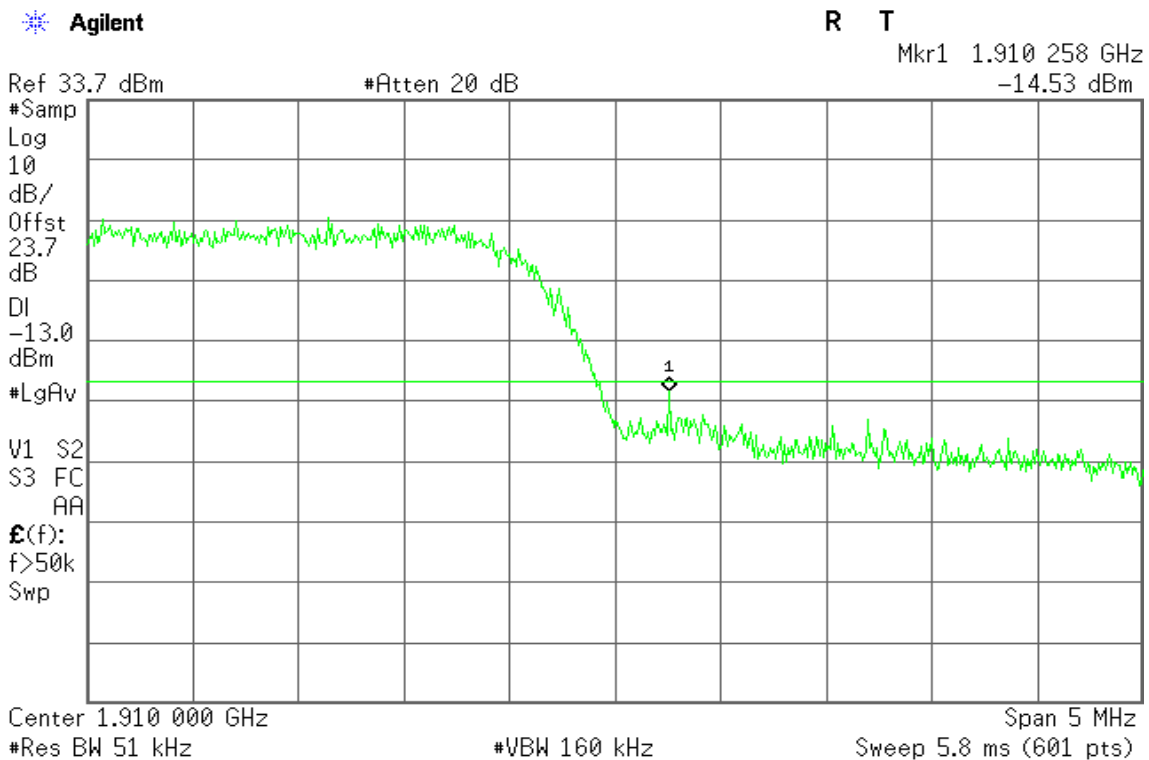


Figure 25-2: Band Edge emissions – HSDPA CH High





### WCDMA / HSDPA Band V

Figure 26-1: Band Edge emissions – HSDPA CH Low

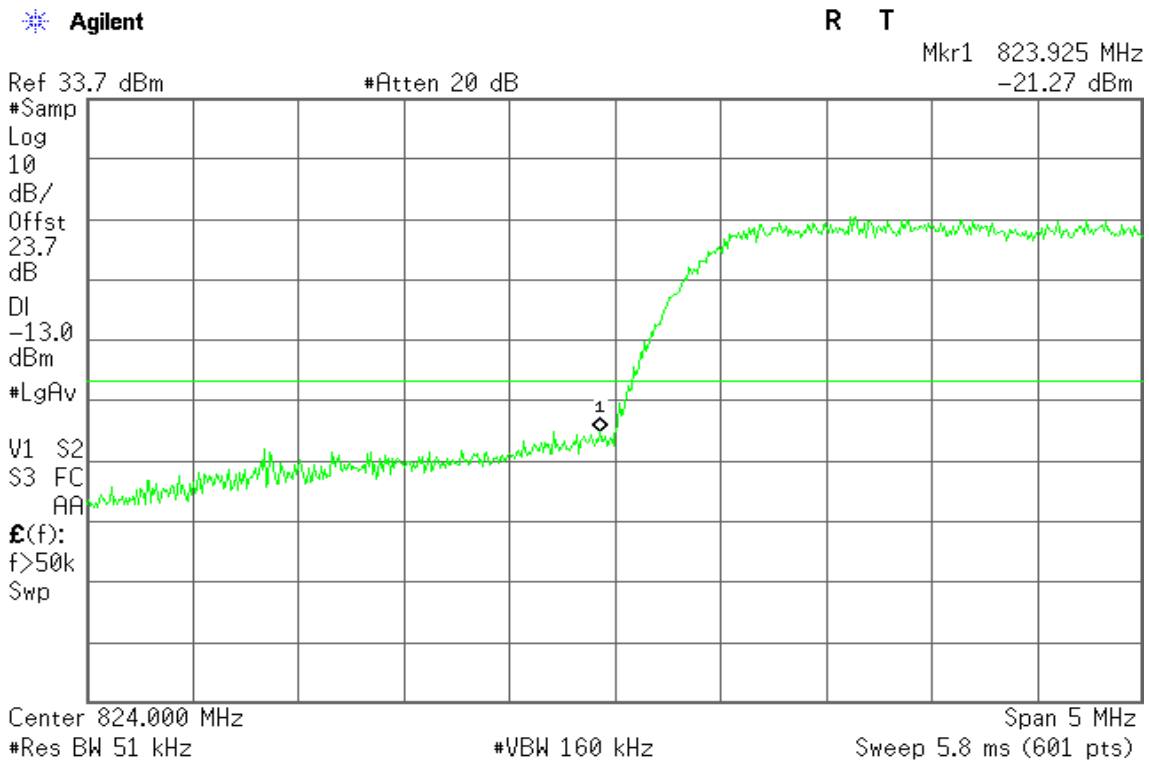
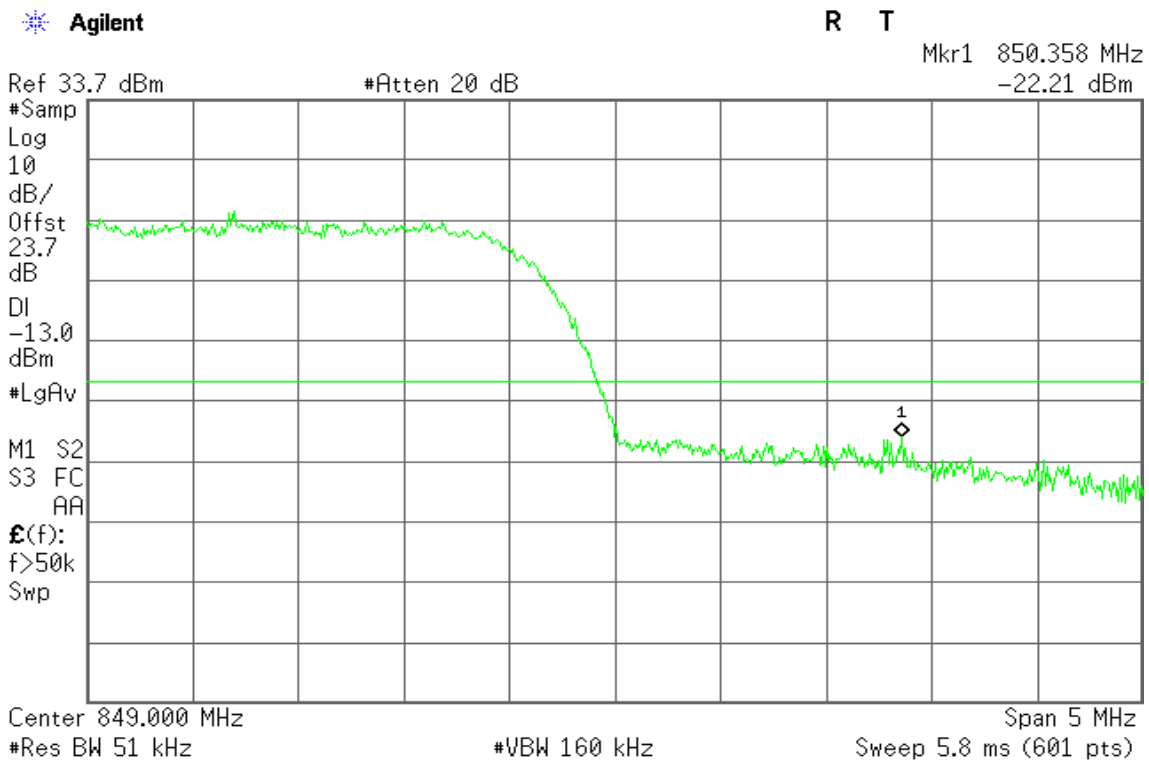


Figure 26-2: Band Edge emissions – HSDPA CH High





### WCDMA / HSUPA Band II

Figure 27-1: Out of Band emission at antenna terminals – HSUPA CH Low

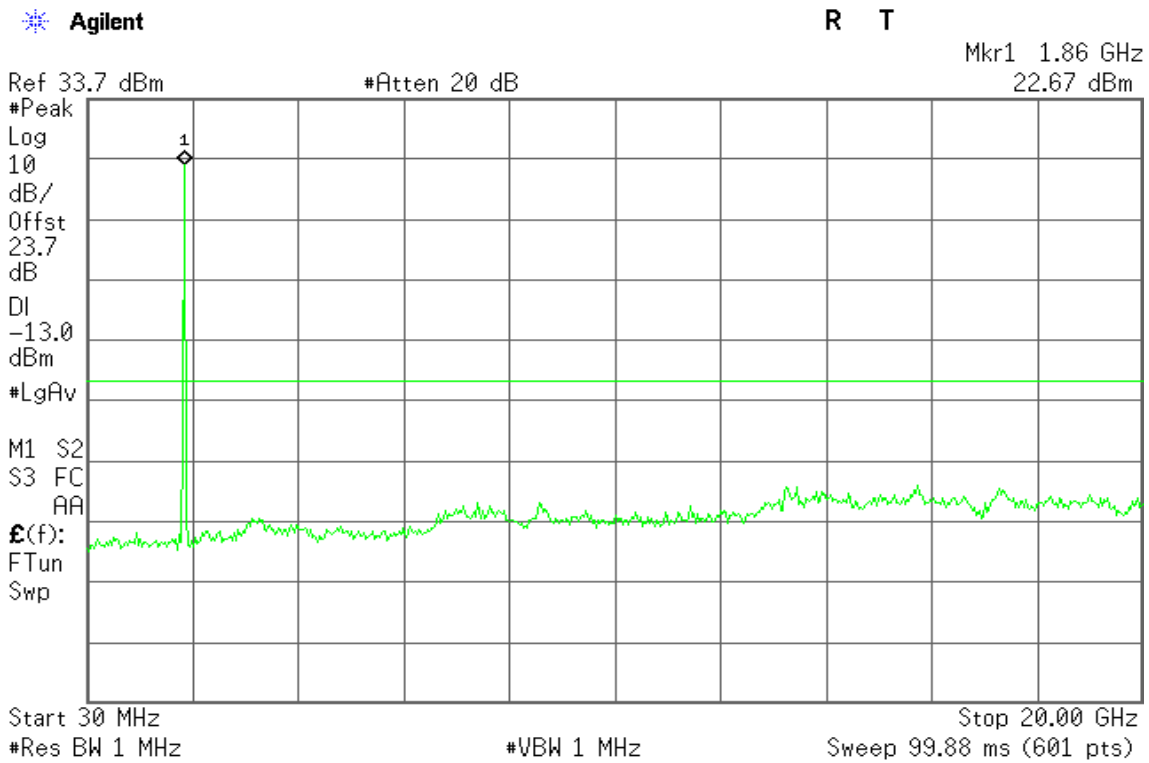


Figure 27-2: Out of Band emission at antenna terminals – HSUPA CH Mid

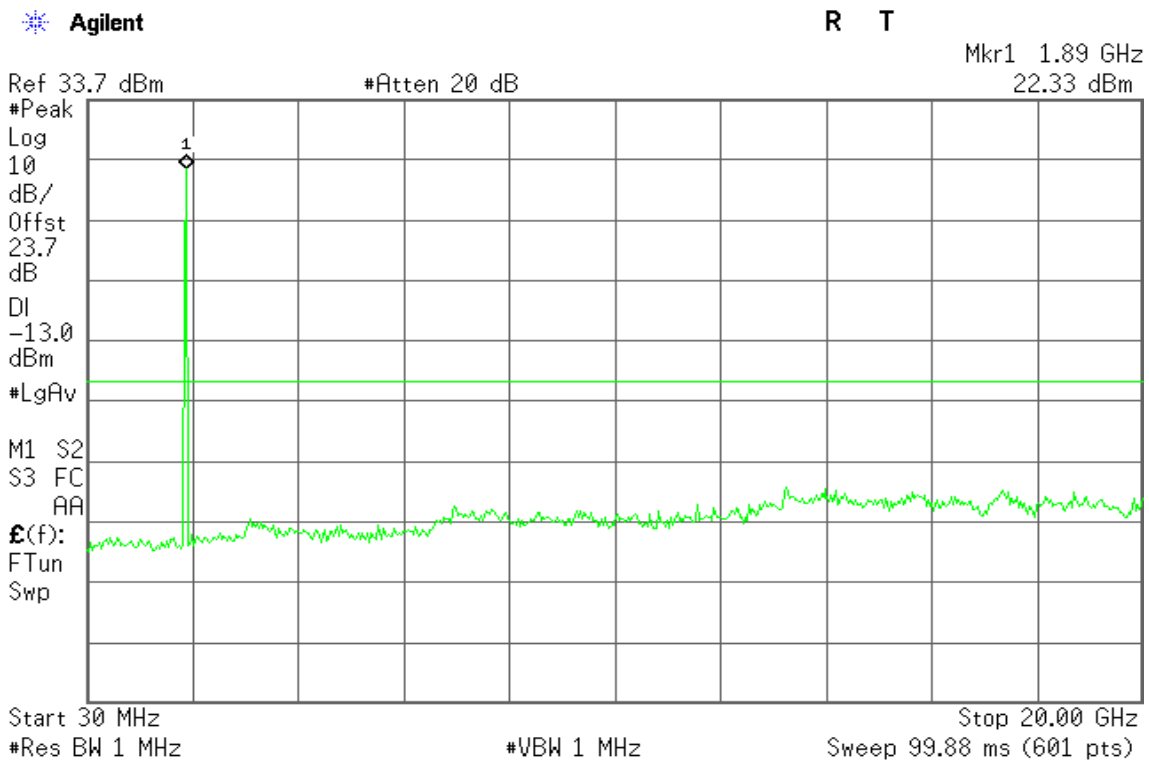
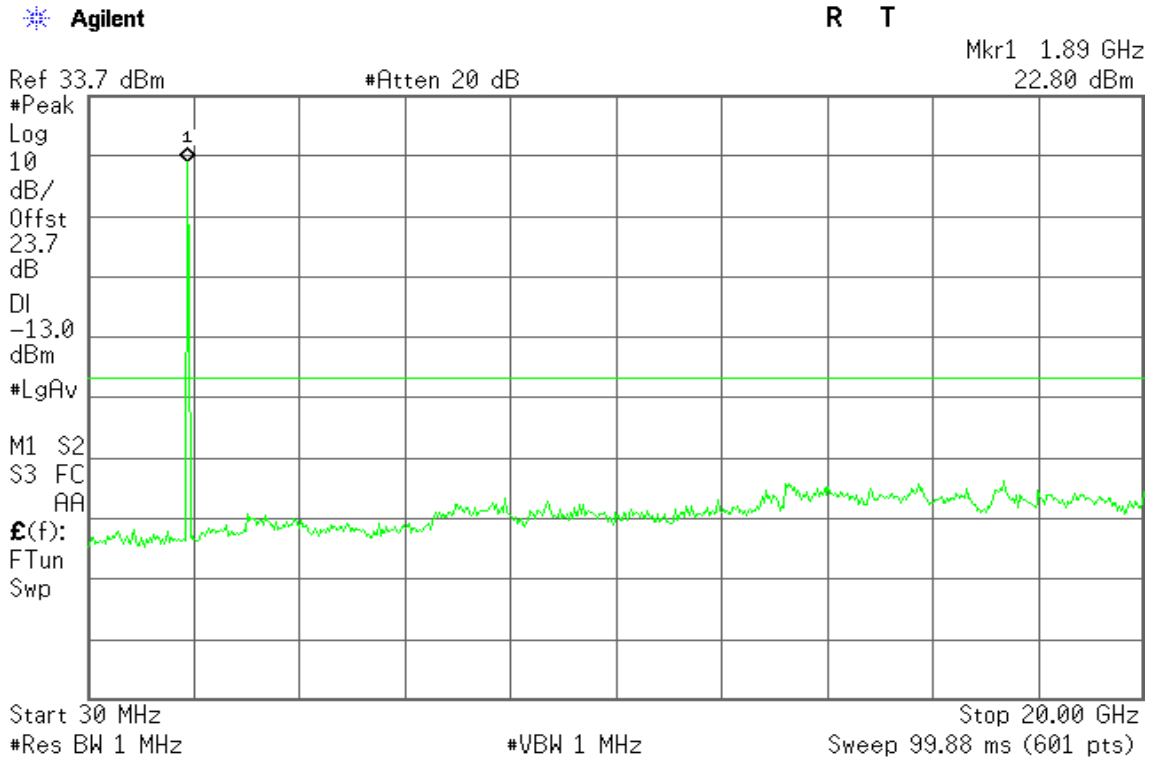






Figure 27-3: Out of Band emission at antenna terminals – HSUPA CH High





### HSUPA / WCDMA Band V

Figure 28-1: Out of Band emission at antenna terminals – HSUPA CH Low

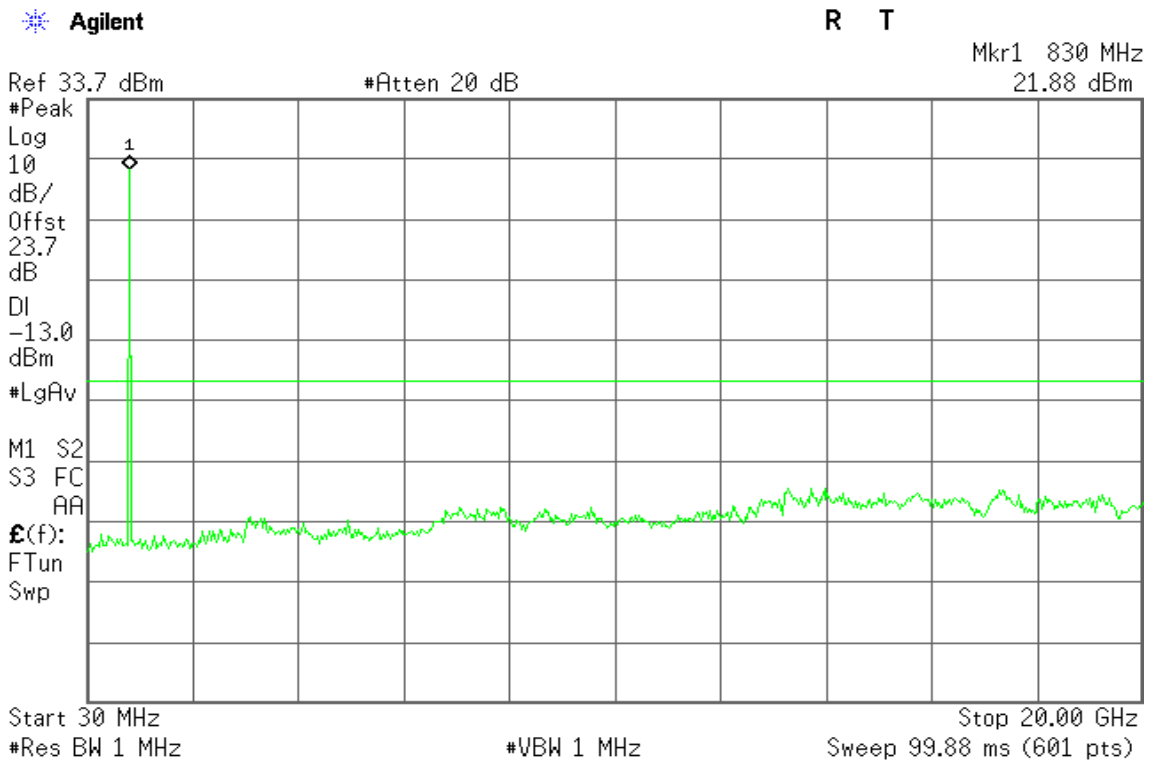


Figure 28-2: Out of Band emission at antenna terminals – HSUPA CH Mid

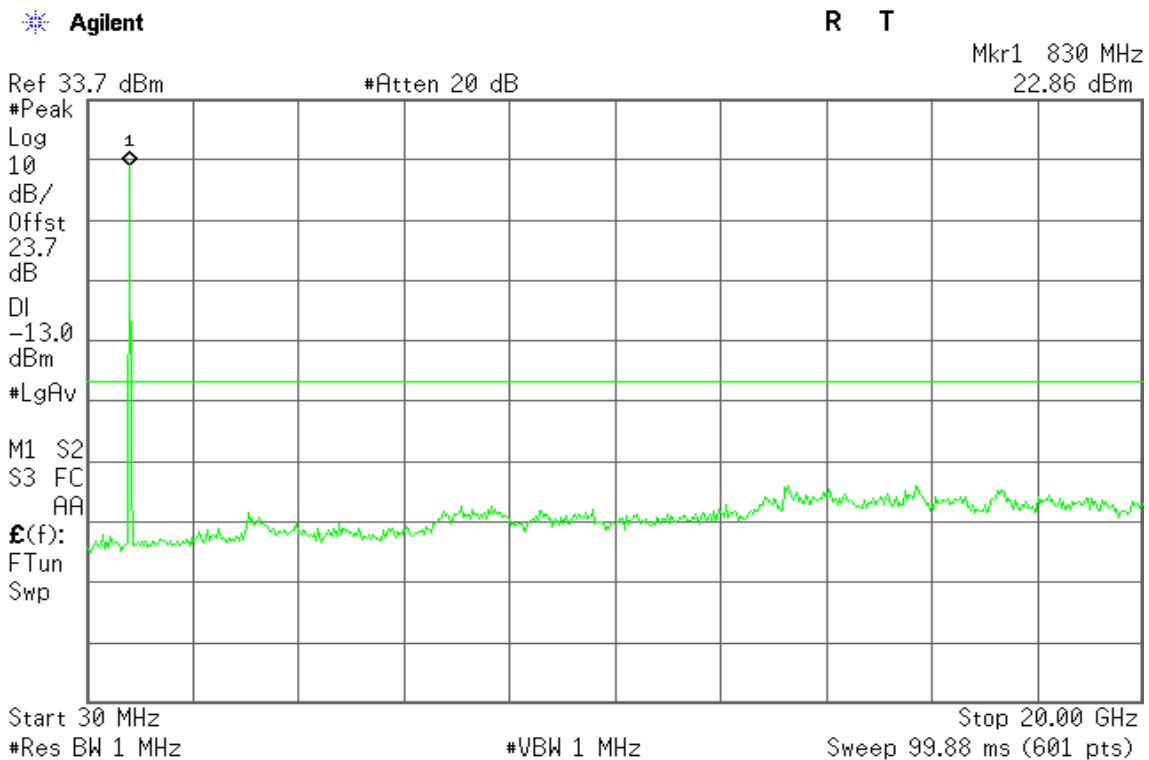
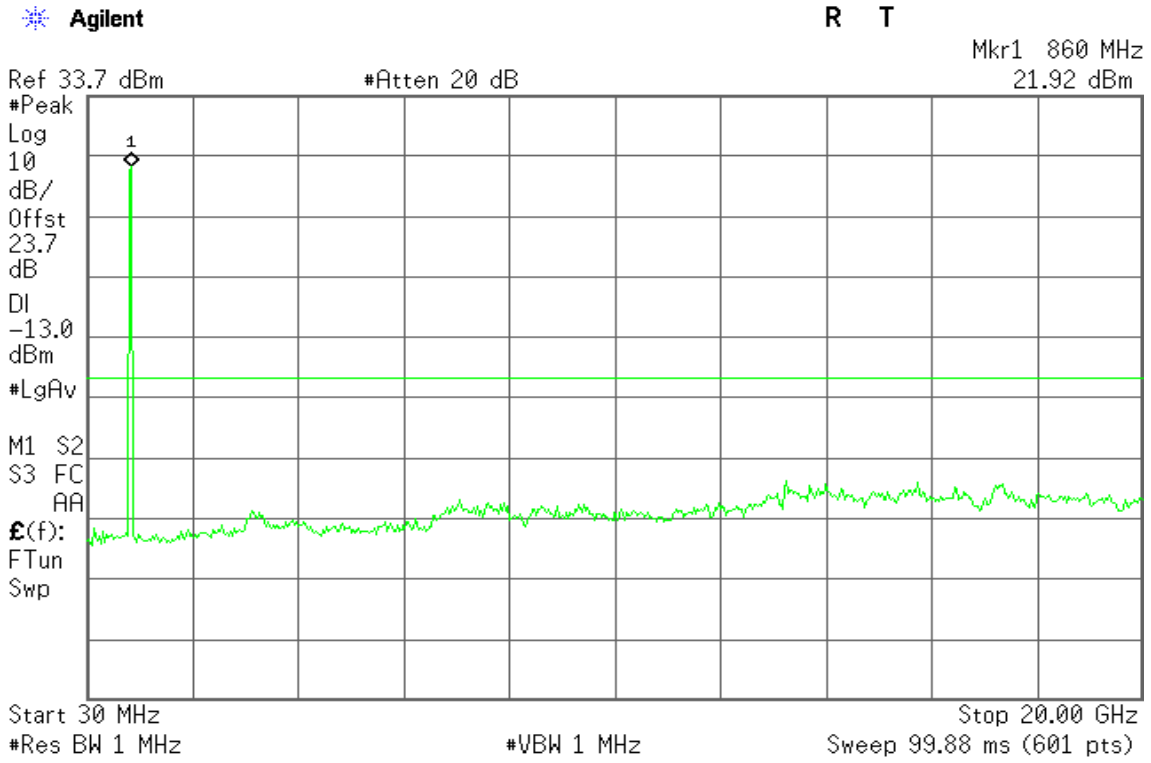




Figure 28-3: Out of Band emission at antenna terminals – HSUPA CH High





### WCDMA / HSUPA Band II

Figure 29-1: Band Edge emissions – HSUPA CH Low

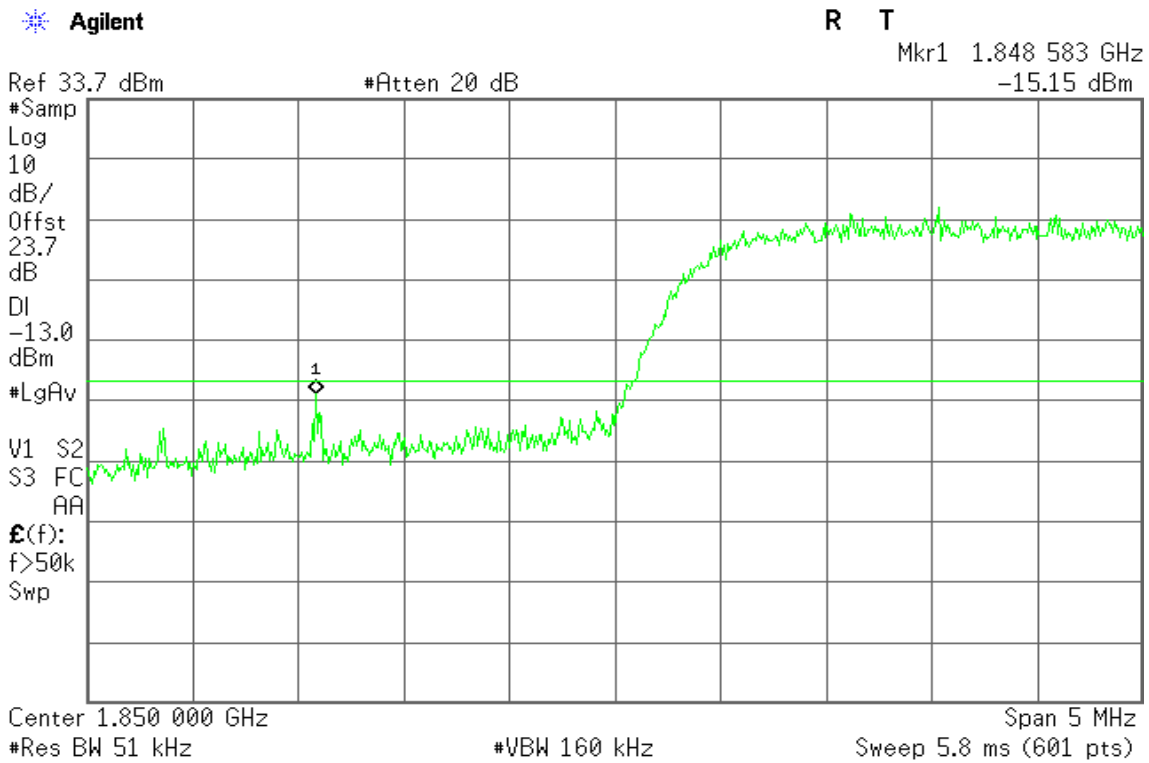
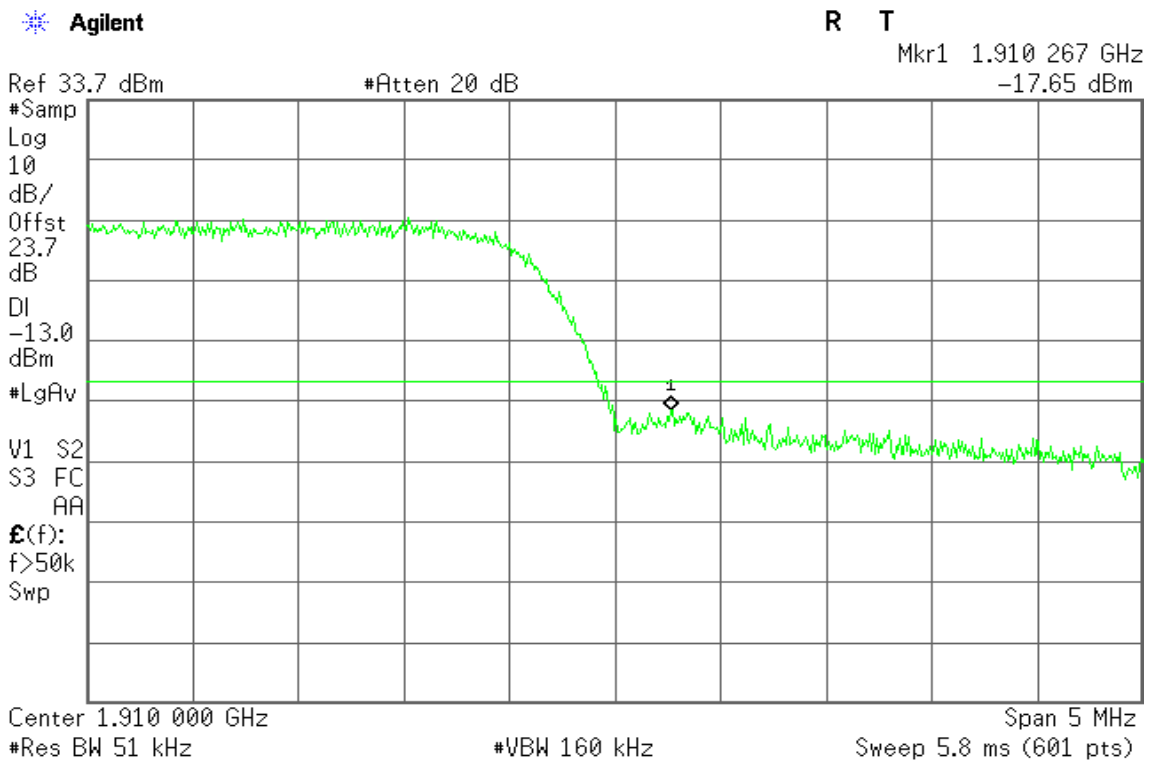


Figure 29-2: Band Edge emissions – HSUPA CH High





### WCDMA / HSUPA Band V

Figure 30-1: Band Edge emissions – HSUPA CH Low

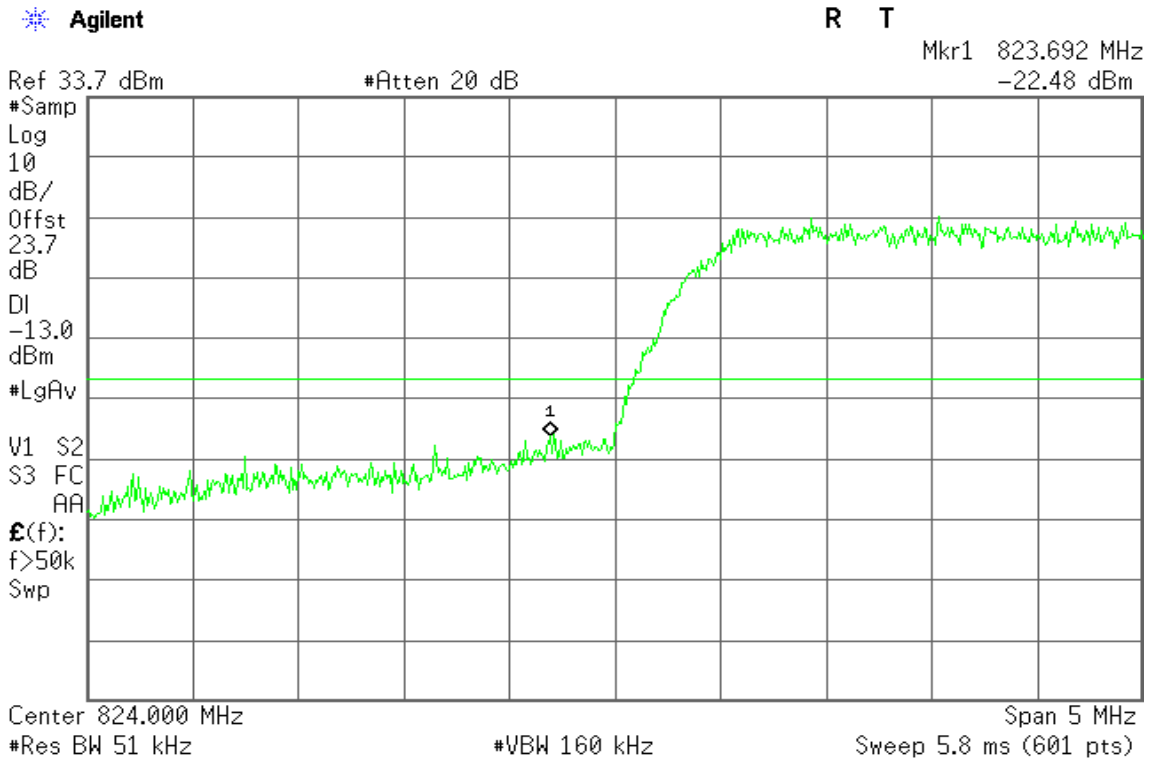
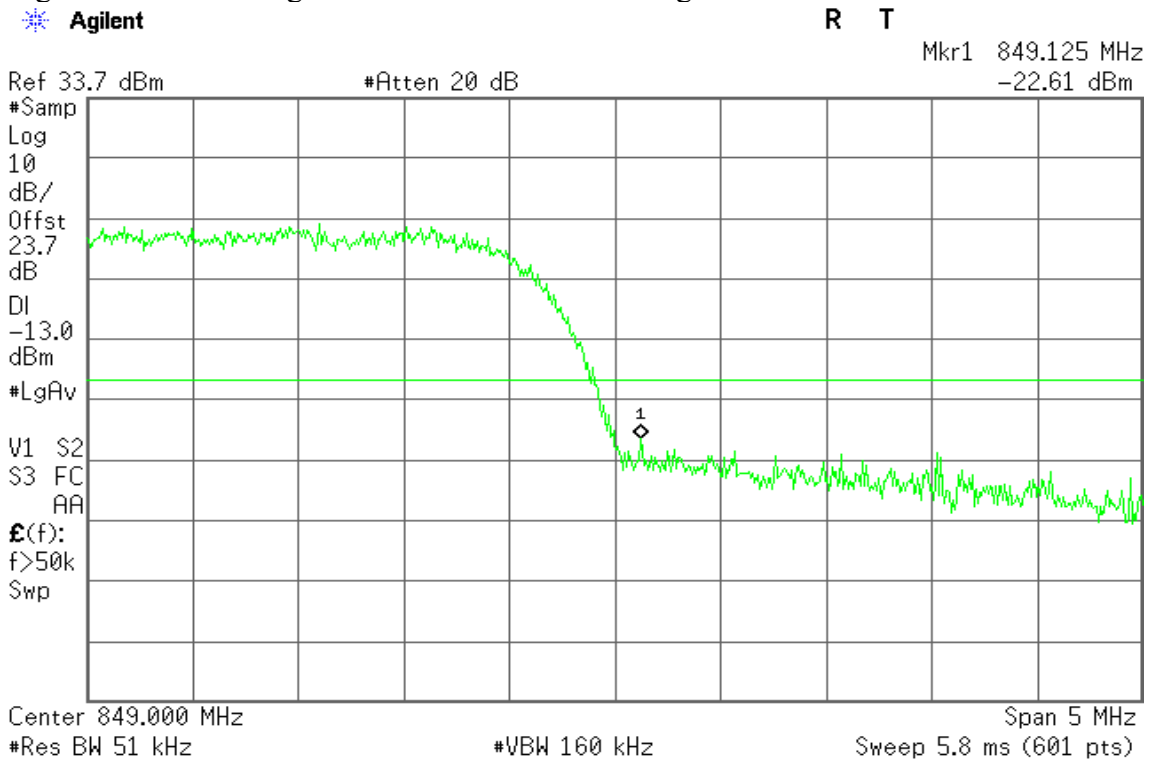


Figure 30-2: Band Edge emissions – HSUPA CH High





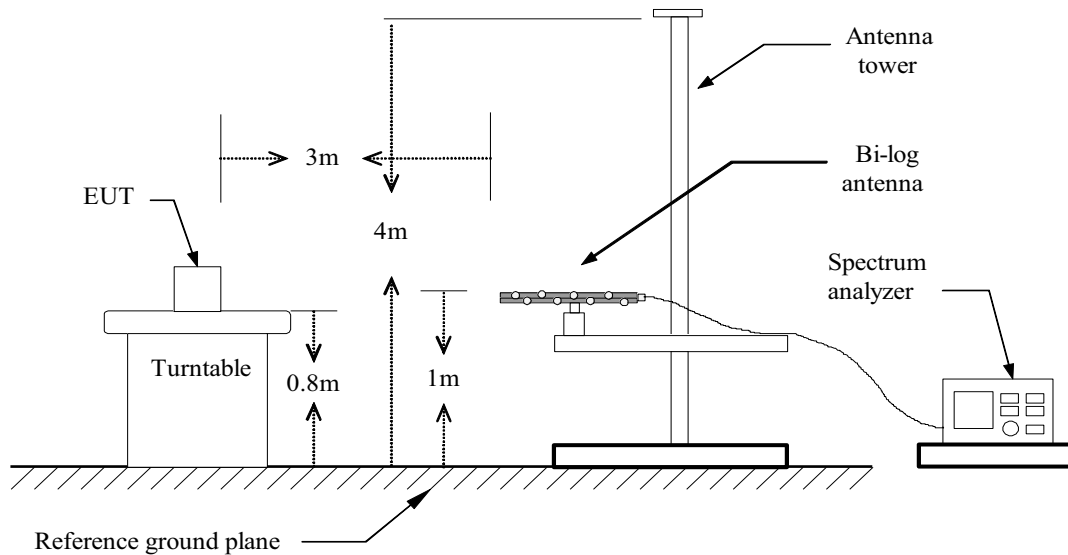
## 7.6 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### LIMIT

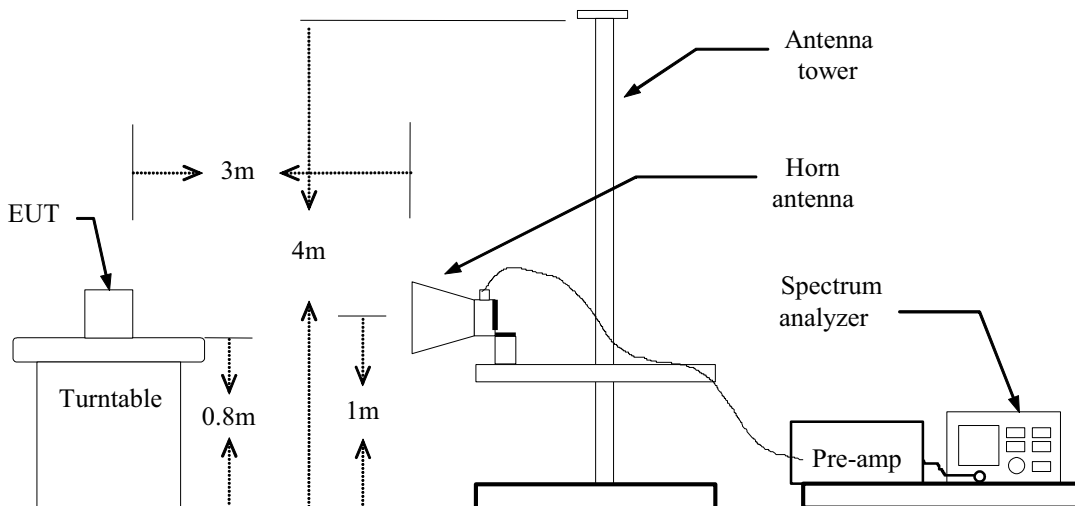
According to FCC §2.1053, RSS-132 (4.6) & RSS-133 (6.5).

### Test Configuration

#### Below 1 GHz

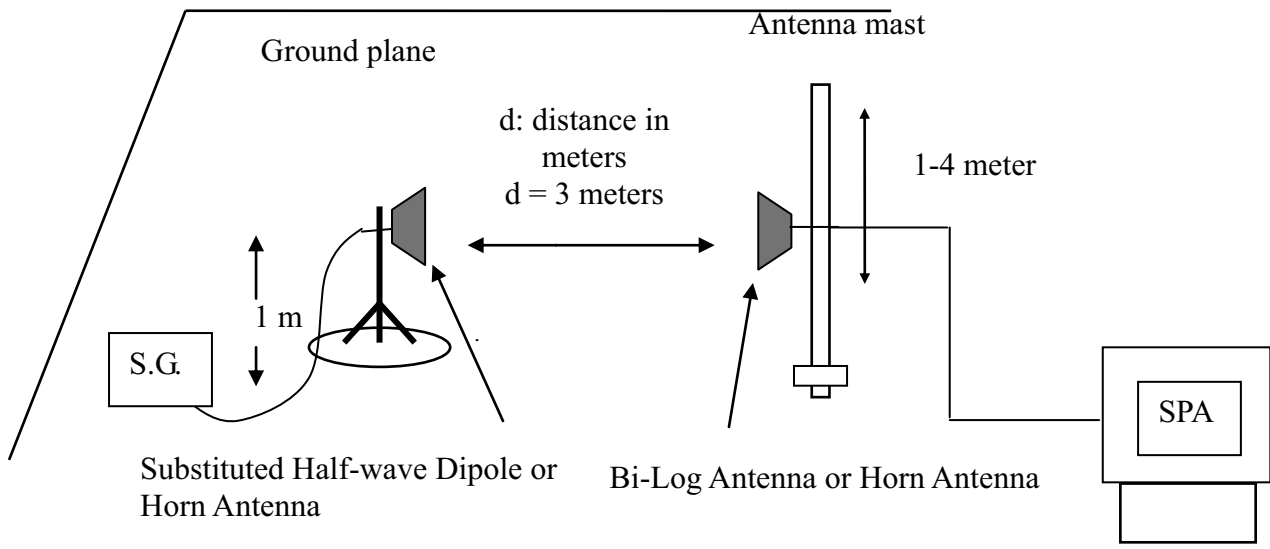


#### Above 1 GHz





### Substituted Method Test Set-up



### TEST PROCEDURE

The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

### TEST RESULTS

*Refer to the attached tabular data sheets.*



**Radiated Spurious Emission Measurement Result / Below 1GHz**

**Operation Mode:** GSM 850 / TX / CH 128

**Test Date:** August 18, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
78.5000	-64.09	1.03	-0.43	-65.55	-13.00	-52.55	V
150.2800	-66.1	1.43	0.71	-66.82	-13.00	-53.82	V
330.7000	-73.86	2.16	5.71	-70.31	-13.00	-57.31	V
448.0700	-77.74	2.58	5.74	-74.58	-13.00	-61.58	V
541.1900	-82.92	2.78	6.25	-79.45	-13.00	-66.45	V
684.7500	-83.33	3.11	6.5	-79.94	-13.00	-66.94	V
120.2100	-55.01	1.27	-2.06	-58.34	-13.00	-45.34	H
161.9200	-59.09	1.5	1.61	-58.98	-13.00	-45.98	H
342.3400	-70.84	2.18	5.8	-67.22	-13.00	-54.22	H
439.3400	-74.37	2.53	5.9	-71.00	-13.00	-58.00	H
529.5500	-73.02	2.75	6	-69.77	-13.00	-56.77	H
634.3100	-78.71	2.99	6.18	-75.52	-13.00	-62.52	H

**Remark:**

- 1. The emission behaviour belongs to narrowband spurious emission.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*





**Operation Mode:** GSM 850 / TX / CH 190

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.18	1.01	-0.94	-62.13	-13.00	-49.13	V
161.9200	-65.55	1.5	1.61	-65.44	-13.00	-52.44	V
323.9100	-75.44	2.17	5.7	-71.91	-13.00	-58.91	V
439.3400	-78.6	2.53	5.9	-75.23	-13.00	-62.23	V
493.6600	-79.62	2.68	5.83	-76.47	-13.00	-63.47	V
610.0600	-81.73	2.94	6.29	-78.38	-13.00	-65.38	V
75.5900	-63.03	1.01	-0.94	-64.98	-13.00	-51.98	H
150.2800	-59.88	1.43	0.71	-60.60	-13.00	-47.60	H
323.9100	-69.01	2.17	5.7	-65.48	-13.00	-52.48	H
389.8700	-69.95	2.32	6	-66.27	-13.00	-53.27	H
459.7100	-72.43	2.6	5.88	-69.15	-13.00	-56.15	H
529.5500	-74.23	2.75	6	-70.98	-13.00	-57.98	H

**Remark:**

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GSM 850 / TX / CH 251

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-59.42	1.01	-0.94	-61.37	-13.00	-48.37	V
161.9200	-65.35	1.5	1.61	-65.24	-13.00	-52.24	V
330.7000	-75.64	2.16	5.71	-72.09	-13.00	-59.09	V
439.3400	-78.88	2.53	5.9	-75.51	-13.00	-62.51	V
478.1400	-79.11	2.63	5.59	-76.15	-13.00	-63.15	V
635.2800	-82.36	2.99	6.17	-79.18	-13.00	-66.18	V
120.2100	-59.46	1.27	-2.06	-62.79	-13.00	-49.79	H
150.2800	-59.22	1.43	0.71	-59.94	-13.00	-46.94	H
342.3400	-69.54	2.18	5.8	-65.92	-13.00	-52.92	H
448.0700	-71.55	2.58	5.74	-68.39	-13.00	-55.39	H
529.5500	-73.4	2.75	6	-70.15	-13.00	-57.15	H
625.5800	-76.53	2.96	6.16	-73.33	-13.00	-60.33	H

**Remark:**

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GPRS 850 / TX / CH 128

**Test Date:** August 18, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
78.5000	-63.32	1.03	-0.43	-64.78	-13.00	-51.78	V
150.2800	-66.28	1.43	0.71	-67.00	-13.00	-54.00	V
330.7000	-74.03	2.16	5.71	-70.48	-13.00	-57.48	V
448.0700	-77.89	2.58	5.74	-74.73	-13.00	-61.73	V
571.2600	-83.37	2.87	6.1	-80.14	-13.00	-67.14	V
713.8500	-82.6	3.15	6.38	-79.37	-13.00	-66.37	V
78.5000	-57.22	1.03	-0.43	-58.68	-13.00	-45.68	H
161.9200	-57.78	1.5	1.61	-57.67	-13.00	-44.67	H
273.4700	-77.31	1.99	5.17	-74.13	-13.00	-61.13	H
342.3400	-70.01	2.18	5.8	-66.39	-13.00	-53.39	H
448.0700	-73.29	2.58	5.74	-70.13	-13.00	-57.13	H
529.5500	-74.47	2.75	6	-71.22	-13.00	-58.22	H

**Remark:**

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GPRS 850 / TX / CH 190

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.14	1.01	-0.94	-62.09	-13.00	-49.09	V
161.9200	-65.66	1.5	1.61	-65.55	-13.00	-52.55	V
323.9100	-72.1	2.17	5.7	-68.57	-13.00	-55.57	V
439.3400	-78.46	2.53	5.9	-75.09	-13.00	-62.09	V
480.0800	-79.37	2.64	5.54	-76.47	-13.00	-63.47	V
610.0600	-81.89	2.94	6.29	-78.54	-13.00	-65.54	V
95.9600	-65.81	1.13	0.26	-66.68	-13.00	-53.68	H
150.2800	-59.58	1.43	0.71	-60.30	-13.00	-47.30	H
217.2100	-70.24	1.74	5.35	-66.63	-13.00	-53.63	H
342.3400	-69.2	2.18	5.8	-65.58	-13.00	-52.58	H
389.8700	-69.44	2.32	6	-65.76	-13.00	-52.76	H
529.5500	-74.12	2.75	6	-70.87	-13.00	-57.87	H

**Remark:**

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GPRS 850 / TX / CH 251

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-59.71	1.01	-0.94	-61.66	-13.00	-48.66	V
161.9200	-65.5	1.5	1.61	-65.39	-13.00	-52.39	V
330.7000	-75.99	2.16	5.71	-72.44	-13.00	-59.44	V
439.3400	-77.92	2.53	5.9	-74.55	-13.00	-61.55	V
551.8600	-80.06	2.81	6.16	-76.71	-13.00	-63.71	V
731.3100	-81.59	3.18	6.37	-78.40	-13.00	-65.40	V
150.2800	-59.59	1.43	0.71	-60.31	-13.00	-47.31	H
342.3400	-69.29	2.18	5.8	-65.67	-13.00	-52.67	H
389.8700	-69.63	2.32	6	-65.95	-13.00	-52.95	H
529.5500	-74.24	2.75	6	-70.99	-13.00	-57.99	H
598.4200	-76.31	2.9	6.37	-72.84	-13.00	-59.84	H
704.1500	-78.34	3.13	6.35	-75.12	-13.00	-62.12	H

**Remark:**

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GSM 1900 / TX / CH 512

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-61.21	1.01	-0.94	-63.16	-13.00	-50.16	V
161.9200	-65.43	1.5	1.61	-65.32	-13.00	-52.32	V
323.9100	-72.91	2.17	5.7	-69.38	-13.00	-56.38	V
435.4600	-78.73	2.51	5.86	-75.38	-13.00	-62.38	V
573.2000	-82.28	2.88	6.08	-79.08	-13.00	-66.08	V
701.2400	-82.03	3.12	6.38	-78.77	-13.00	-65.77	V
101.7800	-65.48	1.16	-0.64	-67.28	-13.00	-54.28	H
161.9200	-65.63	1.5	1.61	-65.52	-13.00	-52.52	H
330.7000	-68.94	2.16	5.71	-65.39	-13.00	-52.39	H
448.0700	-71.97	2.58	5.74	-68.81	-13.00	-55.81	H
529.5500	-74.44	2.75	6	-71.19	-13.00	-58.19	H
637.2200	-76.88	3	6.15	-73.73	-13.00	-60.73	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GSM 1900 / TX / CH 661

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-61.27	1.01	-0.94	-63.22	-13.00	-50.22	V
161.9200	-65.86	1.5	1.61	-65.75	-13.00	-52.75	V
323.9100	-75.59	2.17	5.7	-72.06	-13.00	-59.06	V
426.7300	-79.33	2.48	5.8	-76.01	-13.00	-63.01	V
516.9400	-81.62	2.7	6.07	-78.25	-13.00	-65.25	V
717.7300	-82.19	3.16	6.44	-78.91	-13.00	-65.91	V
74.6200	-65.54	1	-1.11	-67.65	-13.00	-54.65	H
150.2800	-59.45	1.43	0.71	-60.17	-13.00	-47.17	H
323.9100	-69.72	2.17	5.7	-66.19	-13.00	-53.19	H
402.4800	-72.82	2.41	5.97	-69.26	-13.00	-56.26	H
529.5500	-74.5	2.75	6	-71.25	-13.00	-58.25	H
736.1600	-78.19	3.2	6.23	-75.16	-13.00	-62.16	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GSM 1900 / TX / CH 810

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-61.02	1.01	-0.94	-62.97	-13.00	-49.97	V
161.9200	-65.2	1.5	1.61	-65.09	-13.00	-52.09	V
323.9100	-75.94	2.17	5.7	-72.41	-13.00	-59.41	V
426.7300	-79.14	2.48	5.8	-75.82	-13.00	-62.82	V
529.5500	-82.3	2.75	6	-79.05	-13.00	-66.05	V
689.6000	-82.51	3.13	6.5	-79.14	-13.00	-66.14	V
150.2800	-59.56	1.43	0.71	-60.28	-13.00	-47.28	H
345.2500	-70.17	2.2	5.8	-66.57	-13.00	-53.57	H
448.0700	-70.99	2.58	5.74	-67.83	-13.00	-54.83	H
637.2200	-77.03	3	6.15	-73.88	-13.00	-60.88	H
773.0200	-77.47	3.28	6.29	-74.46	-13.00	-61.46	H
926.2800	-75.78	3.59	6.48	-72.89	-13.00	-59.89	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*





**Operation Mode:** GPRS 1900 / TX / CH 512

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.34	1.01	-0.94	-62.29	-13.00	-49.29	V
161.9200	-65.35	1.5	1.61	-65.24	-13.00	-52.24	V
330.7000	-76.39	2.16	5.71	-72.84	-13.00	-59.84	V
439.3400	-78.26	2.53	5.9	-74.89	-13.00	-61.89	V
612.9700	-82.3	2.94	6.23	-79.01	-13.00	-66.01	V
781.7500	-80.64	3.31	6.13	-77.82	-13.00	-64.82	V
95.9600	-64.92	1.13	0.26	-65.79	-13.00	-52.79	H
150.2800	-59.53	1.43	0.71	-60.25	-13.00	-47.25	H
342.3400	-69.74	2.18	5.8	-66.12	-13.00	-53.12	H
448.0700	-71.42	2.58	5.74	-68.26	-13.00	-55.26	H
589.6900	-78.06	2.89	6.19	-74.76	-13.00	-61.76	H
771.0800	-77.14	3.27	6.35	-74.06	-13.00	-61.06	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GPRS 1900 / TX / CH 661

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.66	1.01	-0.94	-62.61	-13.00	-49.61	V
161.9200	-66.2	1.5	1.61	-66.09	-13.00	-53.09	V
330.7000	-75.54	2.16	5.71	-71.99	-13.00	-58.99	V
439.3400	-79.46	2.53	5.9	-76.09	-13.00	-63.09	V
519.8500	-82.38	2.7	6.1	-78.98	-13.00	-65.98	V
715.7900	-82.54	3.16	6.41	-79.29	-13.00	-66.29	V
75.5900	-63.22	1.01	-0.94	-65.17	-13.00	-52.17	H
120.2100	-60.13	1.27	-2.06	-63.46	-13.00	-50.46	H
150.2800	-59.37	1.43	0.71	-60.09	-13.00	-47.09	H
330.7000	-70.08	2.16	5.71	-66.53	-13.00	-53.53	H
448.0700	-71.9	2.58	5.74	-68.74	-13.00	-55.74	H
529.5500	-73.81	2.75	6	-70.56	-13.00	-57.56	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** GPRS 1900 / TX / CH 810

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.81	1.01	-0.94	-62.76	-13.00	-49.76	V
138.6400	-63.68	1.39	-0.38	-65.45	-13.00	-52.45	V
330.7000	-76.71	2.16	5.71	-73.16	-13.00	-60.16	V
426.7300	-78.57	2.48	5.8	-75.25	-13.00	-62.25	V
529.5500	-82.76	2.75	6	-79.51	-13.00	-66.51	V
770.1100	-80.37	3.27	6.38	-77.26	-13.00	-64.26	V
75.5900	-64.52	1.01	-0.94	-66.47	-13.00	-53.47	H
150.2800	-59.8	1.43	0.71	-60.52	-13.00	-47.52	H
342.3400	-69.3	2.18	5.8	-65.68	-13.00	-52.68	H
448.0700	-70.78	2.58	5.74	-67.62	-13.00	-54.62	H
529.5500	-74.21	2.75	6	-70.96	-13.00	-57.96	H
712.8800	-78.51	3.15	6.36	-75.30	-13.00	-62.30	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** EDGE 850 / TX / CH 128

**Test Date:** August 18, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
78.5000	-63.16	1.03	-0.43	-64.62	-13.00	-51.62	V
150.2800	-66.02	1.43	0.71	-66.74	-13.00	-53.74	V
342.3400	-74.71	2.18	5.8	-71.09	-13.00	-58.09	V
529.5500	-79.09	2.75	6	-75.84	-13.00	-62.84	V
655.6500	-81.51	3.04	6.3	-78.25	-13.00	-65.25	V
760.4100	-82.4	3.22	6.3	-79.32	-13.00	-66.32	V
120.2100	-54.88	1.27	-2.06	-58.21	-13.00	-45.21	H
161.9200	-58.8	1.5	1.61	-58.69	-13.00	-45.69	H
330.7000	-71.03	2.16	5.71	-67.48	-13.00	-54.48	H
448.0700	-72.1	2.58	5.74	-68.94	-13.00	-55.94	H
529.5500	-73.27	2.75	6	-70.02	-13.00	-57.02	H
634.3100	-78.81	2.99	6.18	-75.62	-13.00	-62.62	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** EDGE 850 / TX / CH 190

**Test Date:** August 18, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.15	1.01	-0.94	-62.10	-13.00	-49.10	V
161.9200	-65.03	1.5	1.61	-64.92	-13.00	-51.92	V
324.8800	-75.39	2.17	5.7	-71.86	-13.00	-58.86	V
439.3400	-78.59	2.53	5.9	-75.22	-13.00	-62.22	V
492.6900	-81.21	2.68	5.82	-78.07	-13.00	-65.07	V
633.3400	-81.38	2.99	6.18	-78.19	-13.00	-65.19	V
78.5000	-57.36	1.03	-0.43	-58.82	-13.00	-45.82	H
161.9200	-58.25	1.5	1.61	-58.14	-13.00	-45.14	H
330.7000	-71.73	2.16	5.71	-68.18	-13.00	-55.18	H
439.3400	-73.86	2.53	5.9	-70.49	-13.00	-57.49	H
529.5500	-74.53	2.75	6	-71.28	-13.00	-58.28	H
565.4400	-75.12	2.86	6.04	-71.94	-13.00	-58.94	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** EDGE 850 / TX / CH 251

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-59.31	1.01	-0.94	-61.26	-13.00	-48.26	V
161.9200	-65.51	1.5	1.61	-65.40	-13.00	-52.40	V
330.7000	-75.95	2.16	5.71	-72.40	-13.00	-59.40	V
454.8600	-77.81	2.6	5.8	-74.61	-13.00	-61.61	V
566.4100	-81.44	2.86	6.06	-78.24	-13.00	-65.24	V
611.0300	-81.21	2.94	6.27	-77.88	-13.00	-64.88	V
150.2800	-59.54	1.43	0.71	-60.26	-13.00	-47.26	H
342.3400	-69.02	2.18	5.8	-65.40	-13.00	-52.40	H
448.0700	-70.72	2.58	5.74	-67.56	-13.00	-54.56	H
529.5500	-74.13	2.75	6	-70.88	-13.00	-57.88	H
637.2200	-75.9	3	6.15	-72.75	-13.00	-59.75	H
814.7300	-76.74	3.36	6.2	-73.90	-13.00	-60.90	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** EDGE 1900 / TX / CH 512

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.74	1.01	-0.94	-62.69	-13.00	-49.69	V
161.9200	-66.07	1.5	1.61	-65.96	-13.00	-52.96	V
330.7000	-74.79	2.16	5.71	-71.24	-13.00	-58.24	V
448.0700	-78.84	2.58	5.74	-75.68	-13.00	-62.68	V
511.1200	-80.63	2.69	6.01	-77.31	-13.00	-64.31	V
701.2400	-82.37	3.12	6.38	-79.11	-13.00	-66.11	V
95.9600	-65.48	1.13	0.26	-66.35	-13.00	-53.35	H
150.2800	-59.41	1.43	0.71	-60.13	-13.00	-47.13	H
345.2500	-68.75	2.2	5.8	-65.15	-13.00	-52.15	H
448.0700	-72.42	2.58	5.74	-69.26	-13.00	-56.26	H
529.5500	-74.2	2.75	6	-70.95	-13.00	-57.95	H
719.6700	-78.2	3.17	6.48	-74.89	-13.00	-61.89	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** EDGE 1900 / TX / CH 661

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-60.13	1.01	-0.94	-62.08	-13.00	-49.08	V
161.9200	-66.24	1.5	1.61	-66.13	-13.00	-53.13	V
177.4400	-71.66	1.6	3.31	-69.95	-13.00	-56.95	V
323.9100	-75.79	2.17	5.7	-72.26	-13.00	-59.26	V
448.0700	-78.61	2.58	5.74	-75.45	-13.00	-62.45	V
644.0100	-81.76	3.02	6.17	-78.61	-13.00	-65.61	V
95.9600	-64.89	1.13	0.26	-65.76	-13.00	-52.76	H
150.2800	-59.56	1.43	0.71	-60.28	-13.00	-47.28	H
345.2500	-69.71	2.2	5.8	-66.11	-13.00	-53.11	H
448.0700	-72.08	2.58	5.74	-68.92	-13.00	-55.92	H
529.5500	-73.42	2.75	6	-70.17	-13.00	-57.17	H
612.9700	-76.96	2.94	6.23	-73.67	-13.00	-60.67	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*





**Operation Mode:** EDGE 1900 / TX / CH 810

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-59.74	1.01	-0.94	-61.69	-13.00	-48.69	V
161.9200	-65.9	1.5	1.61	-65.79	-13.00	-52.79	V
323.9100	-75.75	2.17	5.7	-72.22	-13.00	-59.22	V
426.7300	-79.33	2.48	5.8	-76.01	-13.00	-63.01	V
610.0600	-80.68	2.94	6.29	-77.33	-13.00	-64.33	V
877.7800	-81	3.46	6.64	-77.82	-13.00	-64.82	V
95.9600	-64.74	1.13	0.26	-65.61	-13.00	-52.61	H
150.2800	-59.75	1.43	0.71	-60.47	-13.00	-47.47	H
330.7000	-69.97	2.16	5.71	-66.42	-13.00	-53.42	H
448.0700	-71.84	2.58	5.74	-68.68	-13.00	-55.68	H
598.4200	-77.64	2.9	6.37	-74.17	-13.00	-61.17	H
784.6600	-76.78	3.32	6.16	-73.94	-13.00	-60.94	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA Band II / TX / CH 9262

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.09	1.16	-0.64	-64.89	-13.00	-51.89	V
150.2800	-63.15	1.43	0.71	-63.87	-13.00	-50.87	V
323.9100	-76.9	2.17	5.7	-73.37	-13.00	-60.37	V
448.0700	-79.07	2.58	5.74	-75.91	-13.00	-62.91	V
612.9700	-82.65	2.94	6.23	-79.36	-13.00	-66.36	V
874.8700	-80.29	3.45	6.6	-77.14	-13.00	-64.14	V
78.5000	-64.7	1.03	-0.43	-66.16	-13.00	-53.16	H
138.6400	-58.54	1.39	-0.38	-60.31	-13.00	-47.31	H
346.2200	-70.22	2.21	5.8	-66.63	-13.00	-53.63	H
439.3400	-72.52	2.53	5.9	-69.15	-13.00	-56.15	H
529.5500	-73.22	2.75	6	-69.97	-13.00	-56.97	H
623.6400	-77.83	2.95	6.14	-74.64	-13.00	-61.64	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA Band II / TX / CH 9400

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.09	1.16	-0.64	-64.89	-13.00	-51.89	V
150.2800	-62.92	1.43	0.71	-63.64	-13.00	-50.64	V
330.7000	-76.47	2.16	5.71	-72.92	-13.00	-59.92	V
448.0700	-78.71	2.58	5.74	-75.55	-13.00	-62.55	V
589.6900	-80.58	2.89	6.19	-77.28	-13.00	-64.28	V
850.6200	-80.8	3.4	6.4	-77.80	-13.00	-64.80	V
78.5000	-64.66	1.03	-0.43	-66.12	-13.00	-53.12	H
138.6400	-59.19	1.39	-0.38	-60.96	-13.00	-47.96	H
346.2200	-69.71	2.21	5.8	-66.12	-13.00	-53.12	H
448.0700	-73.22	2.58	5.74	-70.06	-13.00	-57.06	H
529.5500	-74.81	2.75	6	-71.56	-13.00	-58.56	H
873.9000	-77.57	3.45	6.58	-74.44	-13.00	-61.44	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA Band II / TX / CH 9538

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.01	1.16	-0.64	-64.81	-13.00	-51.81	V
150.2800	-62.99	1.43	0.71	-63.71	-13.00	-50.71	V
330.7000	-77.47	2.16	5.71	-73.92	-13.00	-60.92	V
459.7100	-80.4	2.6	5.88	-77.12	-13.00	-64.12	V
731.3100	-82.48	3.18	6.37	-79.29	-13.00	-66.29	V
876.8100	-80.52	3.46	6.63	-77.35	-13.00	-64.35	V
78.5000	-65.37	1.03	-0.43	-66.83	-13.00	-53.83	H
138.6400	-58.72	1.39	-0.38	-60.49	-13.00	-47.49	H
346.2200	-70.84	2.21	5.8	-67.25	-13.00	-54.25	H
448.0700	-72.42	2.58	5.74	-69.26	-13.00	-56.26	H
529.5500	-74.39	2.75	6	-71.14	-13.00	-58.14	H
730.3400	-78.42	3.18	6.39	-75.21	-13.00	-62.21	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA Band V / TX / CH 4132

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.48	1.16	-0.64	-65.28	-13.00	-52.28	V
150.2800	-63.81	1.43	0.71	-64.53	-13.00	-51.53	V
323.9100	-75.32	2.17	5.7	-71.79	-13.00	-58.79	V
449.0400	-76.85	2.59	5.72	-73.72	-13.00	-60.72	V
589.6900	-81.28	2.89	6.19	-77.98	-13.00	-64.98	V
725.4900	-81.73	3.17	6.45	-78.45	-13.00	-65.45	V
78.5000	-62.75	1.03	-0.43	-64.21	-13.00	-51.21	H
138.6400	-56.17	1.39	-0.38	-57.94	-13.00	-44.94	H
345.2500	-67.88	2.2	5.8	-64.28	-13.00	-51.28	H
529.5500	-72.3	2.75	6	-69.05	-13.00	-56.05	H
589.6900	-74.5	2.89	6.19	-71.20	-13.00	-58.20	H
805.0300	-75.19	3.33	6.41	-72.11	-13.00	-59.11	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA Band V / TX / CH 4182

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.34	1.16	-0.64	-65.14	-13.00	-52.14	V
150.2800	-64.2	1.43	0.71	-64.92	-13.00	-51.92	V
323.9100	-73.08	2.17	5.7	-69.55	-13.00	-56.55	V
448.0700	-79.24	2.58	5.74	-76.08	-13.00	-63.08	V
589.6900	-81.56	2.89	6.19	-78.26	-13.00	-65.26	V
723.5500	-81.93	3.17	6.47	-78.63	-13.00	-65.63	V
71.7100	-63.89	0.97	-1.61	-66.47	-13.00	-53.47	H
138.6400	-60.01	1.39	-0.38	-61.78	-13.00	-48.78	H
345.2500	-70.49	2.2	5.8	-66.89	-13.00	-53.89	H
439.3400	-72.53	2.53	5.9	-69.16	-13.00	-56.16	H
529.5500	-73.55	2.75	6	-70.30	-13.00	-57.30	H
730.3400	-78.07	3.18	6.39	-74.86	-13.00	-61.86	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA Band V / TX / CH 4233

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-64.25	1.16	-0.64	-66.05	-13.00	-53.05	V
150.2800	-63.86	1.43	0.71	-64.58	-13.00	-51.58	V
330.7000	-77.38	2.16	5.71	-73.83	-13.00	-60.83	V
448.0700	-79.64	2.58	5.74	-76.48	-13.00	-63.48	V
505.3000	-81.09	2.69	5.95	-77.83	-13.00	-64.83	V
625.5800	-81.57	2.96	6.16	-78.37	-13.00	-65.37	V
78.5000	-64.66	1.03	-0.43	-66.12	-13.00	-53.12	H
138.6400	-58.69	1.39	-0.38	-60.46	-13.00	-47.46	H
267.6500	-75.26	1.96	5.22	-72.00	-13.00	-59.00	H
330.7000	-70.61	2.16	5.71	-67.06	-13.00	-54.06	H
390.8400	-72.06	2.32	6	-68.38	-13.00	-55.38	H
771.0800	-78.3	3.27	6.35	-75.22	-13.00	-62.22	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA / HSDPA Band II /  
TX / CH 9262

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.93	1.16	-0.64	-65.73	-13.00	-52.73	V
171.6200	-69.83	1.57	2.69	-68.71	-13.00	-55.71	V
330.7000	-77.52	2.16	5.71	-73.97	-13.00	-60.97	V
448.0700	-78.29	2.58	5.74	-75.13	-13.00	-62.13	V
612.9700	-81.95	2.94	6.23	-78.66	-13.00	-65.66	V
774.9600	-80.62	3.29	6.24	-77.67	-13.00	-64.67	V
78.5000	-64.05	1.03	-0.43	-65.51	-13.00	-52.51	H
138.6400	-58.58	1.39	-0.38	-60.35	-13.00	-47.35	H
345.2500	-69.31	2.2	5.8	-65.71	-13.00	-52.71	H
439.3400	-73.2	2.53	5.9	-69.83	-13.00	-56.83	H
529.5500	-73.95	2.75	6	-70.70	-13.00	-57.70	H
637.2200	-77.93	3	6.15	-74.78	-13.00	-61.78	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.





Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400

Test Date: August 20, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.53	1.16	-0.64	-65.33	-13.00	-52.33	V
150.2800	-62.79	1.43	0.71	-63.51	-13.00	-50.51	V
319.0600	-78.31	2.17	5.71	-74.77	-13.00	-61.77	V
448.0700	-79.57	2.58	5.74	-76.41	-13.00	-63.41	V
541.1900	-81.66	2.78	6.25	-78.19	-13.00	-65.19	V
625.5800	-82.2	2.96	6.16	-79.00	-13.00	-66.00	V
78.5000	-64.98	1.03	-0.43	-66.44	-13.00	-53.44	H
138.6400	-59.03	1.39	-0.38	-60.80	-13.00	-47.80	H
330.7000	-70.44	2.16	5.71	-66.89	-13.00	-53.89	H
390.8400	-73.28	2.32	6	-69.60	-13.00	-56.60	H
529.5500	-73.99	2.75	6	-70.74	-13.00	-57.74	H
754.5900	-78.2	3.21	6.19	-75.22	-13.00	-62.22	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** WCDMA / HSDPA Band II /  
TX / CH 9538

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.03	1.16	-0.64	-64.83	-13.00	-51.83	V
150.2800	-63.03	1.43	0.71	-63.75	-13.00	-50.75	V
330.7000	-77.15	2.16	5.71	-73.60	-13.00	-60.60	V
448.0700	-80.62	2.58	5.74	-77.46	-13.00	-64.46	V
585.8100	-81.76	2.89	6.11	-78.54	-13.00	-65.54	V
771.0800	-81.7	3.27	6.35	-78.62	-13.00	-65.62	V
78.5000	-65.76	1.03	-0.43	-67.22	-13.00	-54.22	H
138.6400	-58.89	1.39	-0.38	-60.66	-13.00	-47.66	H
342.3400	-70.68	2.18	5.8	-67.06	-13.00	-54.06	H
448.0700	-71.28	2.58	5.74	-68.12	-13.00	-55.12	H
529.5500	-74.43	2.75	6	-71.18	-13.00	-58.18	H
914.6400	-76.82	3.57	6.6	-73.79	-13.00	-60.79	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** WCDMA / HSDPA Band V / TX / CH 4132      **Test Date:** August 20, 2014

**Temperature:** 26°C      **Tested by:** Dennis Li

**Humidity:** 60 % RH      **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-62.82	1.16	-0.64	-64.62	-13.00	-51.62	V
150.2800	-63.12	1.43	0.71	-63.84	-13.00	-50.84	V
323.9100	-73.25	2.17	5.7	-69.72	-13.00	-56.72	V
448.0700	-79.3	2.58	5.74	-76.14	-13.00	-63.14	V
505.3000	-80.4	2.69	5.95	-77.14	-13.00	-64.14	V
769.1400	-80.43	3.27	6.39	-77.31	-13.00	-64.31	V
78.5000	-63.48	1.03	-0.43	-64.94	-13.00	-51.94	H
138.6400	-56.89	1.39	-0.38	-58.66	-13.00	-45.66	H
345.2500	-67.72	2.2	5.8	-64.12	-13.00	-51.12	H
439.3400	-70.06	2.53	5.9	-66.69	-13.00	-53.69	H
529.5500	-72.18	2.75	6	-68.93	-13.00	-55.93	H
665.3500	-76.71	3.06	6.3	-73.47	-13.00	-60.47	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA / HSDPA Band V / TX / CH 4182      **Test Date:** August 20, 2014

**Temperature:** 26°C      **Tested by:** Dennis Li

**Humidity:** 60 % RH      **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.47	1.16	-0.64	-65.27	-13.00	-52.27	V
150.2800	-63.62	1.43	0.71	-64.34	-13.00	-51.34	V
323.9100	-76.22	2.17	5.7	-72.69	-13.00	-59.69	V
448.0700	-79.75	2.58	5.74	-76.59	-13.00	-63.59	V
562.5300	-81.19	2.85	6.01	-78.03	-13.00	-65.03	V
736.1600	-81.39	3.2	6.23	-78.36	-13.00	-65.36	V
78.5000	-65.14	1.03	-0.43	-66.60	-13.00	-53.60	H
138.6400	-60.02	1.39	-0.38	-61.79	-13.00	-48.79	H
330.7000	-71.1	2.16	5.71	-67.55	-13.00	-54.55	H
439.3400	-72.38	2.53	5.9	-69.01	-13.00	-56.01	H
529.5500	-74.89	2.75	6	-71.64	-13.00	-58.64	H
625.5800	-78.06	2.96	6.16	-74.86	-13.00	-61.86	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA / HSDPA Band V / TX / CH 4233      **Test Date:** August 20, 2014

**Temperature:** 26°C      **Tested by:** Dennis Li

**Humidity:** 60 % RH      **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.69	1.16	-0.64	-65.49	-13.00	-52.49	V
150.2800	-64.21	1.43	0.71	-64.93	-13.00	-51.93	V
330.7000	-75.84	2.16	5.71	-72.29	-13.00	-59.29	V
448.0700	-79.11	2.58	5.74	-75.95	-13.00	-62.95	V
541.1900	-82.17	2.78	6.25	-78.70	-13.00	-65.70	V
703.1800	-82.68	3.12	6.36	-79.44	-13.00	-66.44	V
78.5000	-64.87	1.03	-0.43	-66.33	-13.00	-53.33	H
138.6400	-60.33	1.39	-0.38	-62.10	-13.00	-49.10	H
342.3400	-70.48	2.18	5.8	-66.86	-13.00	-53.86	H
439.3400	-71.62	2.53	5.9	-68.25	-13.00	-55.25	H
604.2400	-77.66	2.92	6.36	-74.22	-13.00	-61.22	H
748.7700	-77.51	3.2	6.1	-74.61	-13.00	-61.61	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA / HSUPA Band II /  
TX / CH 9262

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.89	1.16	-0.64	-65.69	-13.00	-52.69	V
150.2800	-63.28	1.43	0.71	-64.00	-13.00	-51.00	V
330.7000	-77.41	2.16	5.71	-73.86	-13.00	-60.86	V
426.7300	-80.67	2.48	5.8	-77.35	-13.00	-64.35	V
585.8100	-80.63	2.89	6.11	-77.41	-13.00	-64.41	V
770.1100	-80.8	3.27	6.38	-77.69	-13.00	-64.69	V
78.5000	-64.02	1.03	-0.43	-65.48	-13.00	-52.48	H
138.6400	-59.21	1.39	-0.38	-60.98	-13.00	-47.98	H
342.3400	-71.14	2.18	5.8	-67.52	-13.00	-54.52	H
439.3400	-72.44	2.53	5.9	-69.07	-13.00	-56.07	H
529.5500	-73.65	2.75	6	-70.40	-13.00	-57.40	H
768.1700	-77.68	3.26	6.38	-74.56	-13.00	-61.56	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** WCDMA / HSUPA Band II /  
TX / CH 9400

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.8	1.16	-0.64	-65.60	-13.00	-52.60	V
150.2800	-62.91	1.43	0.71	-63.63	-13.00	-50.63	V
330.7000	-77.74	2.16	5.71	-74.19	-13.00	-61.19	V
448.0700	-79.67	2.58	5.74	-76.51	-13.00	-63.51	V
541.1900	-81.26	2.78	6.25	-77.79	-13.00	-64.79	V
901.0600	-80.23	3.52	6.6	-77.15	-13.00	-64.15	V
78.5000	-65.49	1.03	-0.43	-66.95	-13.00	-53.95	H
138.6400	-59.43	1.39	-0.38	-61.20	-13.00	-48.20	H
342.3400	-71.67	2.18	5.8	-68.05	-13.00	-55.05	H
435.4600	-73.09	2.51	5.86	-69.74	-13.00	-56.74	H
529.5500	-74.41	2.75	6	-71.16	-13.00	-58.16	H
769.1400	-77.9	3.27	6.39	-74.78	-13.00	-61.78	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** WCDMA / HSUPA Band II /  
TX / CH 9538

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.73	1.16	-0.64	-65.53	-13.00	-52.53	V
150.2800	-62.85	1.43	0.71	-63.57	-13.00	-50.57	V
330.7000	-77.56	2.16	5.71	-74.01	-13.00	-61.01	V
448.0700	-78.27	2.58	5.74	-75.11	-13.00	-62.11	V
585.8100	-81.28	2.89	6.11	-78.06	-13.00	-65.06	V
729.3700	-81.6	3.18	6.4	-78.38	-13.00	-65.38	V
95.9600	-65.52	1.13	0.26	-66.39	-13.00	-53.39	H
138.6400	-59.39	1.39	-0.38	-61.16	-13.00	-48.16	H
342.3400	-71.45	2.18	5.8	-67.83	-13.00	-54.83	H
439.3400	-72.9	2.53	5.9	-69.53	-13.00	-56.53	H
577.0800	-77.51	2.88	6.04	-74.35	-13.00	-61.35	H
799.2100	-77.33	3.33	6.49	-74.17	-13.00	-61.17	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.





**Operation Mode:** WCDMA / HSUPA Band V /  
TX / CH 4132

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.02	1.16	-0.64	-64.82	-13.00	-51.82	V
150.2800	-63.26	1.43	0.71	-63.98	-13.00	-50.98	V
323.9100	-75.19	2.17	5.7	-71.66	-13.00	-58.66	V
505.3000	-79.67	2.69	5.95	-76.41	-13.00	-63.41	V
644.9800	-81.59	3.02	6.19	-78.42	-13.00	-65.42	V
769.1400	-80.58	3.27	6.39	-77.46	-13.00	-64.46	V
78.5000	-63.76	1.03	-0.43	-65.22	-13.00	-52.22	H
138.6400	-58.19	1.39	-0.38	-59.96	-13.00	-46.96	H
346.2200	-70.03	2.21	5.8	-66.44	-13.00	-53.44	H
439.3400	-70.57	2.53	5.9	-67.20	-13.00	-54.20	H
529.5500	-73.31	2.75	6	-70.06	-13.00	-57.06	H
625.5800	-76.24	2.96	6.16	-73.04	-13.00	-60.04	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Operation Mode:** WCDMA / HSUPA Band V /  
TX / CH 4182

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-64.15	1.16	-0.64	-65.95	-13.00	-52.95	V
161.9200	-65.82	1.5	1.61	-65.71	-13.00	-52.71	V
330.7000	-77.54	2.16	5.71	-73.99	-13.00	-60.99	V
448.0700	-78.72	2.58	5.74	-75.56	-13.00	-62.56	V
541.1900	-81.66	2.78	6.25	-78.19	-13.00	-65.19	V
612.9700	-82.07	2.94	6.23	-78.78	-13.00	-65.78	V
71.7100	-64.17	0.97	-1.61	-66.75	-13.00	-53.75	H
138.6400	-59.35	1.39	-0.38	-61.12	-13.00	-48.12	H
330.7000	-69.33	2.16	5.71	-65.78	-13.00	-52.78	H
439.3400	-72.14	2.53	5.9	-68.77	-13.00	-55.77	H
529.5500	-74.4	2.75	6	-71.15	-13.00	-58.15	H
619.7600	-77.39	2.94	6.11	-74.22	-13.00	-61.22	H

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** WCDMA / HSUPA Band V /  
TX / CH 4233

**Test Date:** August 20, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-63.28	1.16	-0.64	-65.08	-13.00	-52.08	V
150.2800	-63.94	1.43	0.71	-64.66	-13.00	-51.66	V
323.9100	-76.38	2.17	5.7	-72.85	-13.00	-59.85	V
448.0700	-78.94	2.58	5.74	-75.78	-13.00	-62.78	V
505.3000	-80.37	2.69	5.95	-77.11	-13.00	-64.11	V
632.3700	-81.46	2.98	6.19	-78.25	-13.00	-65.25	V
71.7100	-64.67	0.97	-1.61	-67.25	-13.00	-54.25	H
138.6400	-60.27	1.39	-0.38	-62.04	-13.00	-49.04	H
345.2500	-71.03	2.2	5.8	-67.43	-13.00	-54.43	H
439.3400	-72.68	2.53	5.9	-69.31	-13.00	-56.31	H
529.5500	-74.54	2.75	6	-71.29	-13.00	-58.29	H
657.5900	-78.79	3.05	6.3	-75.54	-13.00	-62.54	H

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



**Above 1GHz**

**Operation Mode:** GSM 850 / TX / CH 128

**Test Date:** August 18, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-44.14	5.05	6.03	-43.16	-13.00	-30.16	V
6593.000	-42.92	11.22	11.41	-42.73	-13.00	-29.73	V
N/A							
1651.000	-36.84	5.05	6.03	-35.86	-13.00	-22.86	H
4122.000	-45.89	8.47	9.5	-44.86	-13.00	-31.86	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 850 / TX / CH 190

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-38.65	5.07	5.99	-37.73	-13.00	-24.73	V
4185.000	-44.33	8.49	9.55	-43.27	-13.00	-30.27	V
N/A							
1672.000	-40.02	5.07	5.99	-39.10	-13.00	-26.10	H
4185.000	-47.37	8.49	9.55	-46.31	-13.00	-33.31	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 850 / TX / CH 251

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1700.000	-46.76	5.11	5.94	-45.93	-13.00	-32.93	V
4248.000	-49.17	8.54	9.6	-48.11	-13.00	-35.11	V
N/A							
1700.000	-42.4	5.11	5.94	-41.57	-13.00	-28.57	H
2547.000	-44.9	6.42	6.22	-45.10	-13.00	-32.10	H
N/A							

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 850 / TX / CH 128

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-46.68	5.05	6.03	-45.70	-13.00	-32.70	V
4122.000	-48.91	8.47	9.5	-47.88	-13.00	-34.88	V
N/A							
1651.000	-40.26	5.05	6.03	-39.28	-13.00	-26.28	H
4122.000	-48.4	8.47	9.5	-47.37	-13.00	-34.37	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 190

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-48.82	5.07	5.99	-47.90	-13.00	-34.90	V
3527.000	-50.98	7.93	8.93	-49.98	-13.00	-36.98	V
N/A							
1672.000	-43.2	5.07	5.99	-42.28	-13.00	-29.28	H
3527.000	-48.53	7.93	8.93	-47.53	-13.00	-34.53	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.





Operation Mode: GPRS 850 / TX / CH 251

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1945.000	-49.48	5.57	5.5	-49.55	-13.00	-36.55	V
4241.000	-50.73	8.54	9.59	-49.68	-13.00	-36.68	V
N/A							
1700.000	-44.06	5.11	5.94	-43.23	-13.00	-30.23	H
2547.000	-47.96	6.42	6.22	-48.16	-13.00	-35.16	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 512

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-42.99	8.2	9.1	-42.09	-13.00	-29.09	V
5921.000	-52.88	10.49	10.88	-52.49	-13.00	-39.49	V
N/A							
3702.000	-37.92	8.2	9.1	-37.02	-13.00	-24.02	H
5550.000	-50.76	10.06	10.81	-50.01	-13.00	-37.01	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 661

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-45.52	8.23	9.16	-44.59	-13.00	-31.59	V
6817.000	-48.37	11.34	11.68	-48.03	-13.00	-35.03	V
N/A							
3758.000	-41.74	8.23	9.16	-40.81	-13.00	-27.81	H
5641.000	-51.7	10.18	10.83	-51.05	-13.00	-38.05	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 810

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3821.000	-46.29	8.29	9.22	-45.36	-13.00	-32.36	V
6313.000	-51.59	10.81	11.15	-51.25	-13.00	-38.25	V
N/A							
3821.000	-43.9	8.29	9.22	-42.97	-13.00	-29.97	H
6180.000	-50.11	11.1	11.04	-50.17	-13.00	-37.17	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 512

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-42.89	8.2	9.1	-41.99	-13.00	-28.99	V
6131.000	-52.06	10.81	11	-51.87	-13.00	-38.87	V
N/A							
3702.000	-37.05	8.2	9.1	-36.15	-13.00	-23.15	H
5550.000	-50.1	10.06	10.81	-49.35	-13.00	-36.35	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 661

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-45.77	8.23	9.16	-44.84	-13.00	-31.84	V
5641.000	-54.63	10.18	10.83	-53.98	-13.00	-40.98	V
N/A							
3758.000	-41.97	8.23	9.16	-41.04	-13.00	-28.04	H
5641.000	-51.16	10.18	10.83	-50.51	-13.00	-37.51	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 810

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3821.000	-44.96	8.29	9.22	-44.03	-13.00	-31.03	V
6831.000	-49.46	11.37	11.7	-49.13	-13.00	-36.13	V
N/A							
3821.000	-40.82	8.29	9.22	-39.89	-13.00	-26.89	H
5732.000	-51.8	10.24	10.85	-51.19	-13.00	-38.19	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 128

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-47	5.05	6.03	-46.02	-13.00	-33.02	V
4122.000	-50.19	8.47	9.5	-49.16	-13.00	-36.16	V
N/A							
1651.000	-39.95	5.05	6.03	-38.97	-13.00	-25.97	H
4122.000	-47.18	8.47	9.5	-46.15	-13.00	-33.15	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.





Operation Mode: EDGE 850 / TX / CH 190

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-48.66	5.07	5.99	-47.74	-13.00	-34.74	V
4185.000	-50.79	8.49	9.55	-49.73	-13.00	-36.73	V
N/A							
1672.000	-42.86	5.07	5.99	-41.94	-13.00	-28.94	H
4185.000	-49.67	8.49	9.55	-48.61	-13.00	-35.61	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 251

Test Date: August 18, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1700.000	-50.96	5.11	5.94	-50.13	-13.00	-37.13	V
4241.000	-52.2	8.54	9.59	-51.15	-13.00	-38.15	V
N/A							
1700.000	-44.03	5.11	5.94	-43.20	-13.00	-30.20	H
3576.000	-48.95	8.05	8.98	-48.02	-13.00	-35.02	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 512

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-42.82	8.2	9.1	-41.92	-13.00	-28.92	V
5550.000	-53.15	10.06	10.81	-52.40	-13.00	-39.40	V
N/A							
3702.000	-36.06	8.2	9.1	-35.16	-13.00	-22.16	H
6320.000	-49.79	10.84	11.16	-49.47	-13.00	-36.47	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** EDGE 1900 / TX / CH 661

**Test Date:** August 19, 2014

**Temperature:** 26°C

**Tested by:** Dennis Li

**Humidity:** 60 % RH

**Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-45.45	8.23	9.16	-44.52	-13.00	-31.52	V
5578.000	-54.49	10.13	10.82	-53.80	-13.00	-40.80	V
N/A							
3758.000	-42.59	8.23	9.16	-41.66	-13.00	-28.66	H
6117.000	-51.82	10.72	10.99	-51.55	-13.00	-38.55	H
N/A							

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 810

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3821.000	-47.06	8.29	9.22	-46.13	-13.00	-33.13	V
5872.000	-52.56	10.41	10.87	-52.10	-13.00	-39.10	V
N/A							
3821.000	-41.78	8.29	9.22	-40.85	-13.00	-27.85	H
6180.000	-51.16	11.1	11.04	-51.22	-13.00	-38.22	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9262

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3709.000	-45.72	8.21	9.11	-44.82	-13.00	-31.82	V
6502.000	-50.19	11.04	11.3	-49.93	-13.00	-36.93	V
N/A							
3709.000	-43.7	8.21	9.11	-42.80	-13.00	-29.80	H
6096.000	-51.47	10.63	10.98	-51.12	-13.00	-38.12	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9400

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-45.85	8.23	9.16	-44.92	-13.00	-31.92	V
6110.000	-52.24	10.68	10.99	-51.93	-13.00	-38.93	V
N/A							
3758.000	-43.73	8.23	9.16	-42.80	-13.00	-29.80	H
6250.000	-49.71	10.98	11.1	-49.59	-13.00	-36.59	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9538

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3814.000	-45.11	8.28	9.21	-44.18	-13.00	-31.18	V
6019.000	-52.77	10.79	10.92	-52.64	-13.00	-39.64	V
N/A							
3814.000	-45.07	8.28	9.21	-44.14	-13.00	-31.14	H
5389.000	-52.81	9.8	10.76	-51.85	-13.00	-38.85	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.





Operation Mode: WCDMA Band V / TX / CH 4132

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-58.36	5.05	6.03	-57.38	-13.00	-44.38	V
3303.000	-53.23	7.46	8.31	-52.38	-13.00	-39.38	V
N/A							
1658.000	-52.44	5.06	6.02	-51.48	-13.00	-38.48	H
3310.000	-53.42	7.47	8.33	-52.56	-13.00	-39.56	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4182

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-56.38	5.07	5.99	-55.46	-13.00	-42.46	V
3338.000	-53.79	7.5	8.41	-52.88	-13.00	-39.88	V
N/A							
1672.000	-51.01	5.07	5.99	-50.09	-13.00	-37.09	H
3352.000	-53.08	7.52	8.46	-52.14	-13.00	-39.14	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4233

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1693.000	-49.32	5.1	5.95	-48.47	-13.00	-35.47	V
3800.000	-53.82	8.26	9.2	-52.88	-13.00	-39.88	V
N/A							
1693.000	-47.67	5.1	5.95	-46.82	-13.00	-33.82	H
3380.000	-51.35	7.55	8.54	-50.36	-13.00	-37.36	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9262

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-44.24	8.2	9.1	-43.34	-13.00	-30.34	V
6922.000	-48.67	11.53	11.81	-48.39	-13.00	-35.39	V
N/A							
3709.000	-44.9	8.21	9.11	-44.00	-13.00	-31.00	H
6306.000	-51.11	10.78	11.14	-50.75	-13.00	-37.75	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400 Test Date: August 19, 2014

Temperature: 26°C Tested by: Dennis Li

Humidity: 60 % RH Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3765.000	-47.24	8.24	9.16	-46.32	-13.00	-33.32	V
5732.000	-53.68	10.24	10.85	-53.07	-13.00	-40.07	V
N/A							
3765.000	-46.13	8.24	9.16	-45.21	-13.00	-32.21	H
6369.000	-50.92	11.07	11.2	-50.79	-13.00	-37.79	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3814.000	-44.63	8.28	9.21	-43.70	-13.00	-30.70	V
6201.000	-51.47	11.22	11.06	-51.63	-13.00	-38.63	V
N/A							
3814.000	-46.45	8.28	9.21	-45.52	-13.00	-32.52	H
6537.000	-49.04	11.11	11.34	-48.81	-13.00	-35.81	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4132 Test Date: August 19, 2014

Temperature: 26°C Tested by: Dennis Li

Humidity: 60 % RH Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-55.98	5.05	6.03	-55.00	-13.00	-42.00	V
3303.000	-50.33	7.46	8.31	-49.48	-13.00	-36.48	V
N/A							
1651.000	-49.92	5.05	6.03	-48.94	-13.00	-35.94	H
3310.000	-50.48	7.47	8.33	-49.62	-13.00	-36.62	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



**Operation Mode:** WCDMA / HSDPA Band V / TX / CH 4182      **Test Date:** August 19, 2014  
**Temperature:** 26°C      **Tested by:** Dennis Li  
**Humidity:** 60 % RH      **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3352.000	-51.39	7.52	8.46	-50.45	-13.00	-37.45	V
6586.000	-49.9	11.2	11.4	-49.70	-13.00	-36.70	V
N/A							
1672.000	-53.8	5.07	5.99	-52.88	-13.00	-39.88	H
3352.000	-52.64	7.52	8.46	-51.70	-13.00	-38.70	H
N/A							

**Remark:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*





Operation Mode: WCDMA / HSDPA Band V / TX / CH 4233

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1693.000	-57.35	5.1	5.95	-56.50	-13.00	-43.50	V
3380.000	-53.7	7.55	8.54	-52.71	-13.00	-39.71	V
N/A							
1693.000	-50.91	5.1	5.95	-50.06	-13.00	-37.06	H
3380.000	-52.39	7.55	8.54	-51.40	-13.00	-38.40	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band II / TX / CH 9262

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3709.000	-45.21	8.21	9.11	-44.31	-13.00	-31.31	V
5984.000	-51.94	10.76	10.9	-51.80	-13.00	-38.80	V
N/A							
3709.000	-44.66	8.21	9.11	-43.76	-13.00	-30.76	H
6145.000	-51.37	10.89	11.02	-51.24	-13.00	-38.24	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band II / TX / CH 9400

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-47.57	8.23	9.16	-46.64	-13.00	-33.64	V
5844.000	-53.32	10.41	10.87	-52.86	-13.00	-39.86	V
N/A							
3758.000	-45.14	8.23	9.16	-44.21	-13.00	-31.21	H
5158.000	-53.71	9.51	10.66	-52.56	-13.00	-39.56	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band II / TX / CH 9538

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3814.000	-45.57	8.28	9.21	-44.64	-13.00	-31.64	V
5571.000	-53.48	10.12	10.81	-52.79	-13.00	-39.79	V
N/A							
3814.000	-45.74	8.28	9.21	-44.81	-13.00	-31.81	H
6824.000	-48.41	11.36	11.69	-48.08	-13.00	-35.08	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V / TX / CH 4132

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1651.000	-57.67	5.05	6.03	-56.69	-13.00	-43.69	V
3310.000	-51.93	7.47	8.33	-51.07	-13.00	-38.07	V
N/A							
1651.000	-51.3	5.05	6.03	-50.32	-13.00	-37.32	H
3310.000	-51.59	7.47	8.33	-50.73	-13.00	-37.73	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V / TX / CH 4182

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3352.000	-54.18	7.52	8.46	-53.24	-13.00	-40.24	V
5109.000	-54.34	9.46	10.64	-53.16	-13.00	-40.16	V
N/A							
1672.000	-52.74	5.07	5.99	-51.82	-13.00	-38.82	H
3352.000	-54.57	7.52	8.46	-53.63	-13.00	-40.63	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V / TX / CH 4233

Test Date: August 19, 2014

Temperature: 26°C

Tested by: Dennis Li

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1945.000	-51.86	5.57	5.5	-51.93	-13.00	-38.93	V
3352.000	-54.14	7.52	8.46	-53.20	-13.00	-40.20	V
N/A							
1672.000	-53.74	5.07	5.99	-52.82	-13.00	-39.82	H
3352.000	-53.18	7.52	8.46	-52.24	-13.00	-39.24	H
N/A							

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



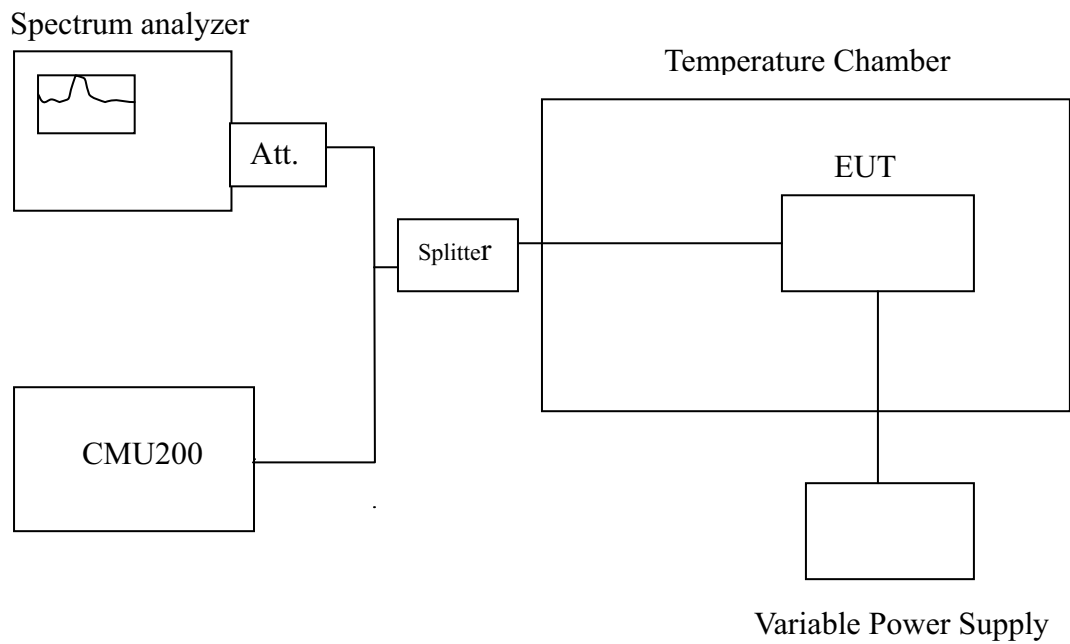
## 7.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### LIMIT

According to FCC §2.1055, FCC §24.235, RSS-132 (4.3) & RSS-133 (6.3).

Frequency Tolerance: 2.5 ppm

### Test Configuration



**Remark:** Measurement setup for testing on Antenna connector.





**TEST PROCEDURE**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

**TEST RESULTS**

*No non-compliance noted.*

<b>Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C</b>				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	836599999	2	2091
	40	836599975	-22	
	30	836599993	-4	
	20	836599997	0	
	10	836599986	-11	
	0	836599975	-22	
	-10	836599981	-16	
	-20	836599995	-2	
	55	836599976	-21	

<b>Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C</b>				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	1879999998	7	4700
	40	1879999986	-5	
	30	1879999987	-4	
	20	1879999991	0	
	10	1880000000	9	
	0	1880000014	23	
	-10	1880000017	26	
	-20	1879999995	4	
	55	1879999982	-9	



Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	836600021	27	2091
	40	836600006	12	
	30	836599999	5	
	20	836599994	0	
	10	836600018	24	
	0	836599999	5	
	-10	836600012	18	
	-20	836599999	5	
	55	836599987	-7	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	1880000018	8	4700
	40	1879999995	-15	
	30	1880000001	-9	
	20	1880000010	0	
	10	1880000009	-1	
	0	1879999992	-18	
	-10	1880000003	-7	
	-20	1879999982	-28	
	55	1880000010	0	



Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	836600003	8	2091
	40	836600002	7	
	30	836599987	-8	
	20	836599995	0	
	10	836600011	16	
	0	836599992	-3	
	-10	836600016	21	
	-20	836599996	1	
	55	836600022	27	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	1879999978	-25	4700
	40	1879999986	-17	
	30	1880000014	11	
	20	1880000003	0	
	10	1880000001	-2	
	0	1879999979	-24	
	-10	1879999981	-22	
	-20	1880000006	3	
	55	1880000018	15	



Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	836399991	-18	2091
	40	836399999	-10	
	30	836400012	3	
	20	836400009	0	
	10	836399987	-22	
	0	836400004	-5	
	-10	836399988	-21	
	-20	836400015	6	
	55	836400015	6	

Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	1880000020	15	4700
	40	1880000012	7	
	30	1879999984	-21	
	20	1880000005	0	
	10	1880000001	-4	
	0	1879999979	-26	
	-10	1880000024	19	
	-20	1879999987	-18	
	55	1879999993	-12	



<b>Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C</b>				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	836399984	-24	2091
	40	836399997	-11	
	30	836400003	-5	
	20	836400008	0	
	10	836400006	-2	
	0	836400004	-4	
	-10	836399996	-12	
	-20	836399976	-32	
	55	836400000	-8	

<b>Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C</b>				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	1880000021	21	4700
	40	1880000004	4	
	30	1879999996	-4	
	20	1880000000	0	
	10	1879999994	-6	
	0	1880000008	8	
	-10	1880000014	14	
	-20	1880000022	22	
	55	1879999998	-2	



Reference Frequency: WCDMA / HSUPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	836399990	-15	2091
	40	836399999	-6	
	30	836400008	3	
	20	836400005	0	
	10	836400020	15	
	0	836399997	-8	
	-10	836400011	6	
	-20	836399997	-8	
	55	836400008	3	

Reference Frequency: WCDMA / HSUPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.6	50	1880000010	15	4700
	40	1880000016	21	
	30	1879999998	3	
	20	1879999995	0	
	10	1879999983	-12	
	0	1879999993	-2	
	-10	1879999983	-12	
	-20	1880000012	17	
	55	1880000012	17	



## 7.8 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### LIMIT

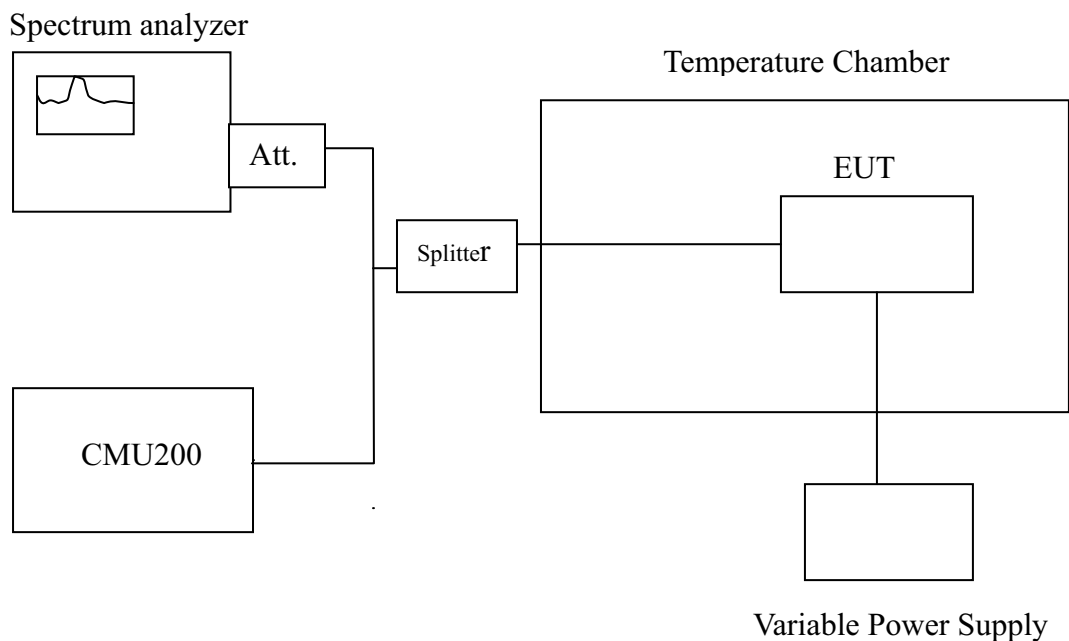
According to FCC §2.1055, FCC §24.235,

Frequency Tolerance: 2.5 ppm.

According to RSS-132 (4.3) & RSS-133 (6.3).

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations and  $\pm 1.0$  ppm for base stations.

### Test Configuration



**Remark:** Measurement setup for testing on Antenna connector.



### **TEST PROCEDURE**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

### **TEST RESULTS**

*No non-compliance noted.*

<b>Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 2091Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	836600011	1	2091
3.6		836600010	0	
3.24		836600010	0	

<b>Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	1879999997	2	4700
3.6		1879999995	0	
3.24		1880000002	7	





Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2091Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	836599994	-13	2091
3.6		836600007	0	
3.24		836600003	-4	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	1879999989	-2	4700
3.6		1879999991	0	
3.24		1880000016	25	



Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2091Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	836600016	20	2091
3.6		836599996	0	
3.24		836599988	-8	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	1880000002	-4	4700
3.6		1880000006	0	
3.24		1880000013	7	



<b>Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 2091Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	836400001	-3	2091
3.6		836400004	0	
3.24		836400013	9	

<b>Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	1879999984	-20	4700
3.6		1880000004	0	
3.24		1880000013	9	



<b>Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 2091Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	836399990	-5	2091
3.6		836399995	0	
3.24		836399997	2	

<b>Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 4700Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	1880000000	7	4700
3.6		1879999993	0	
3.24		1879999998	5	



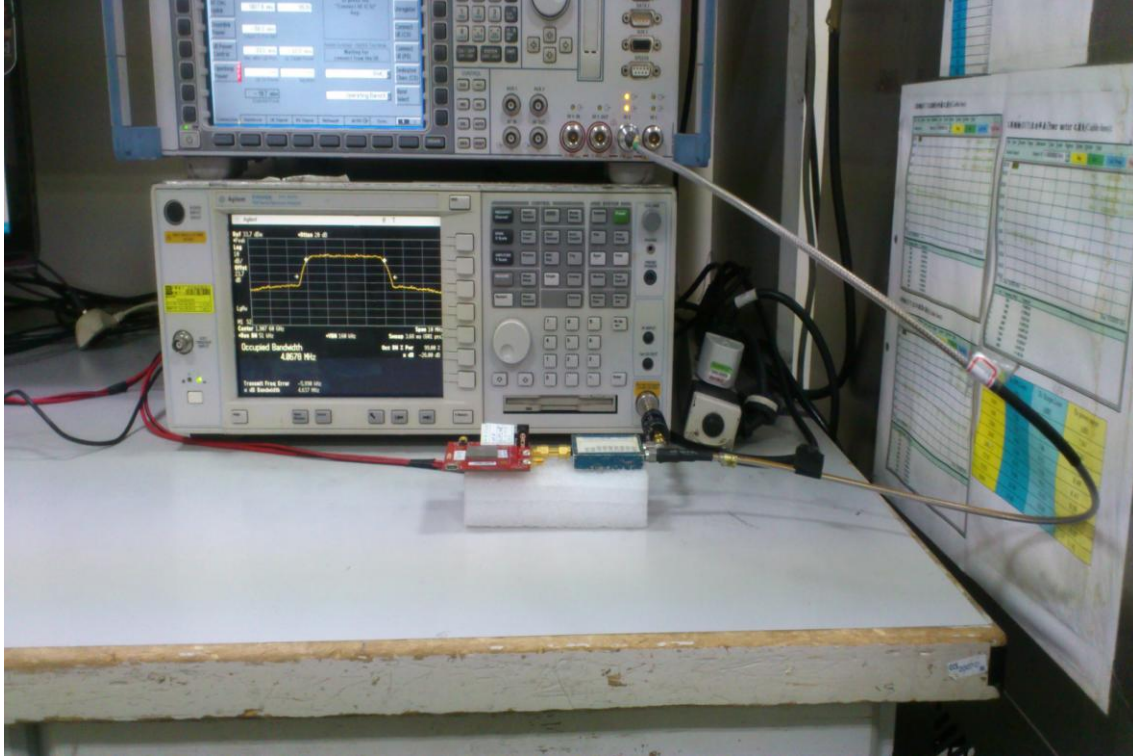
<b>Reference Frequency: WCDMA HSUPA Band V Mid Channel 836.6 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 2091Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	836399995	-11	2091
3.6		836400006	0	
3.24		836400008	2	

<b>Reference Frequency: WCDMA HSUPA Band II Mid Channel 1880 MHz @ 20°C</b>				
Limit: $\pm 2.5$ ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.96	20	1880000004	-1	4700
3.6		1880000005	0	
3.24		1879999984	-21	



## APPENDIX II PHOTOGRAPHS OF TEST SETUP

### Conducted Emission Set Up Photo





## **Radiated Emission Set up Photos**





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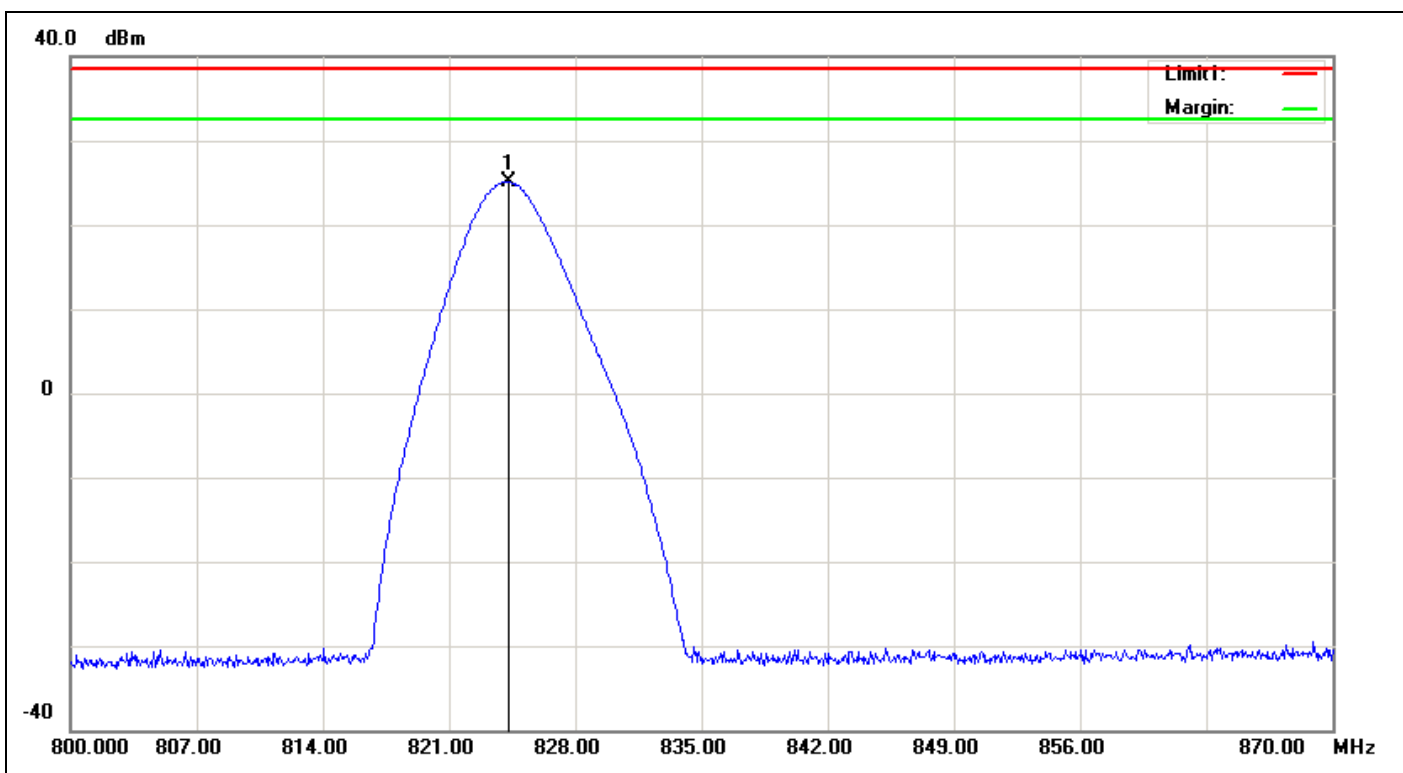
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundamental	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(% RH):	26(°C)/60% RH	Date:2014/8/15	Time:下午 08:16:30
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



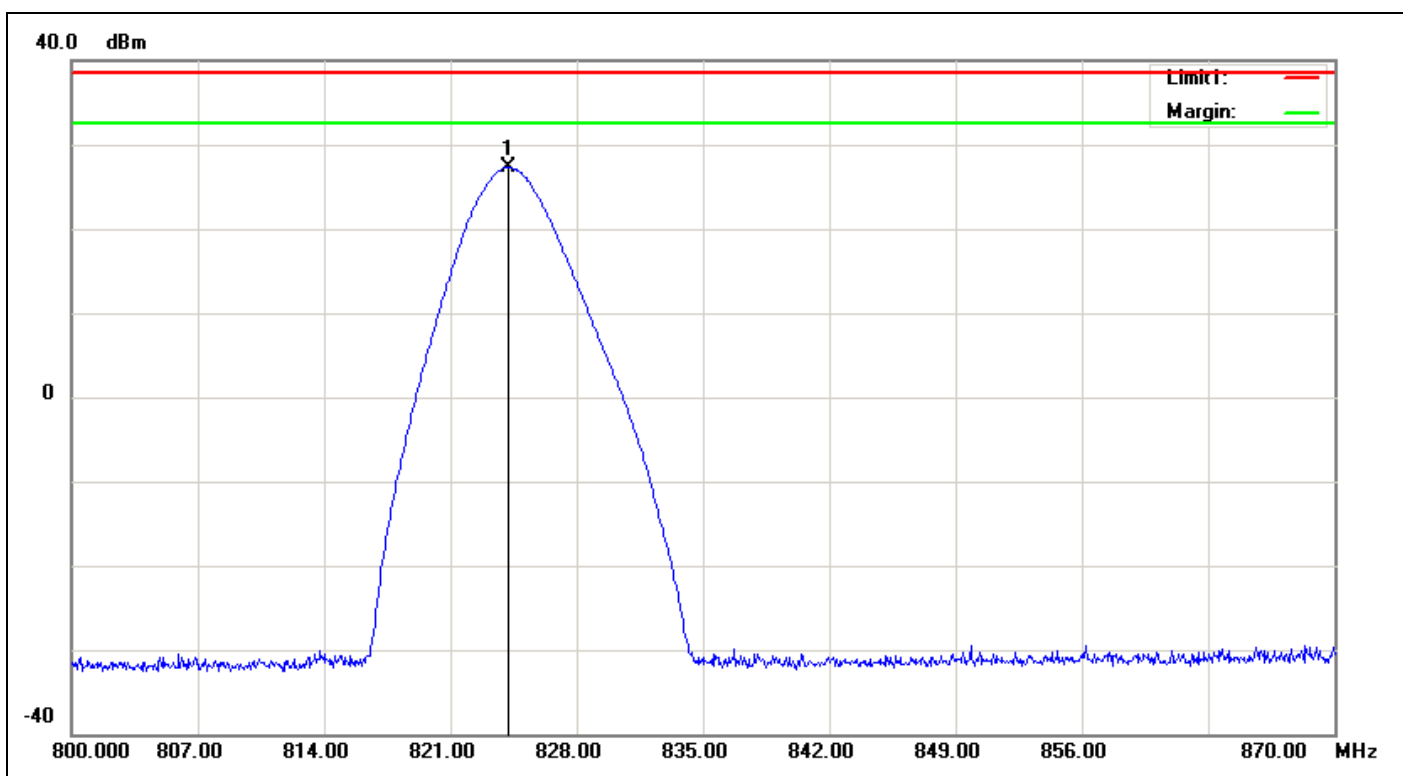
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta ( ° )	Azimuth ( ° )	Remark
1	824.2900	22.31	3.39	6.24	25.16	38.45	-13.29	230	70	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:14:28
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		

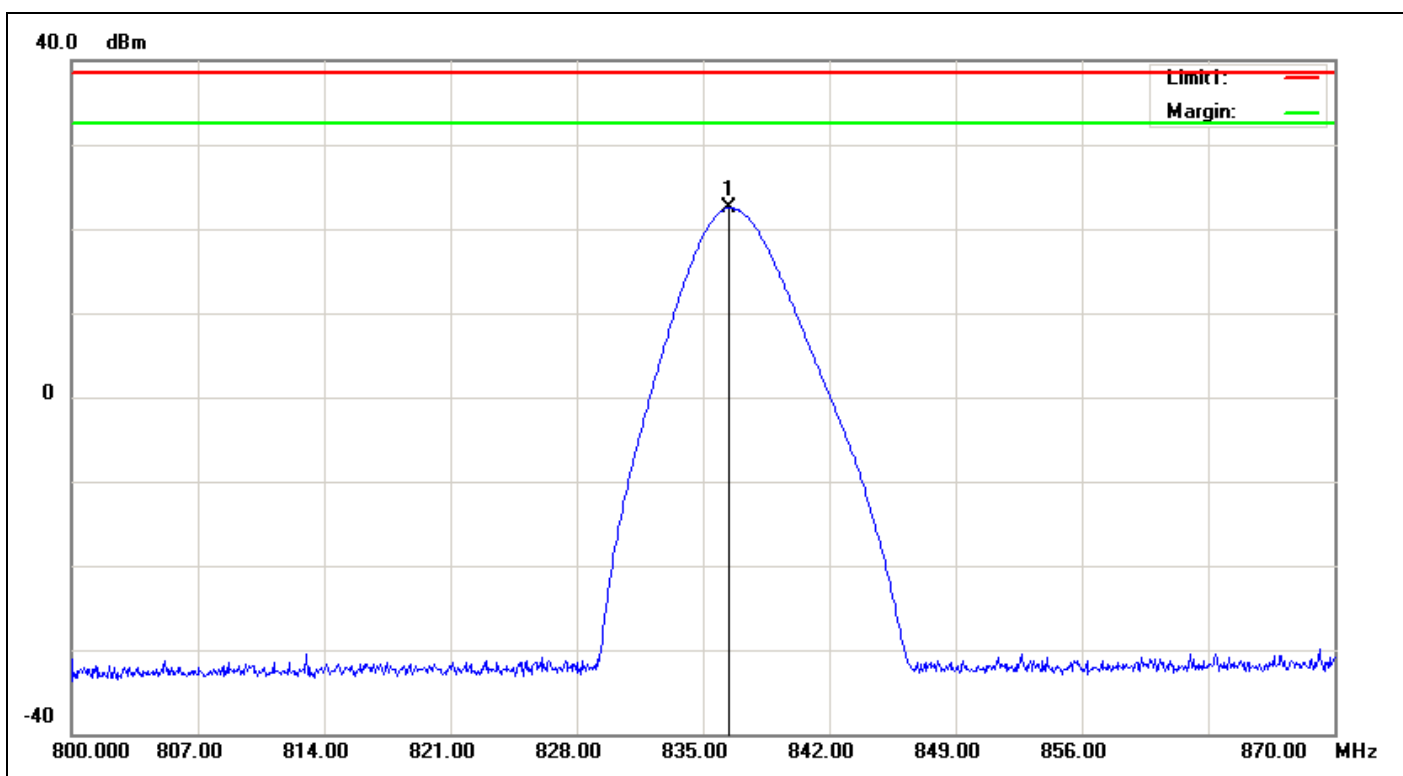


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	824.2200	24.44	3.39	6.24	27.29	38.45	-11.16	230	71	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 07:51:15
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

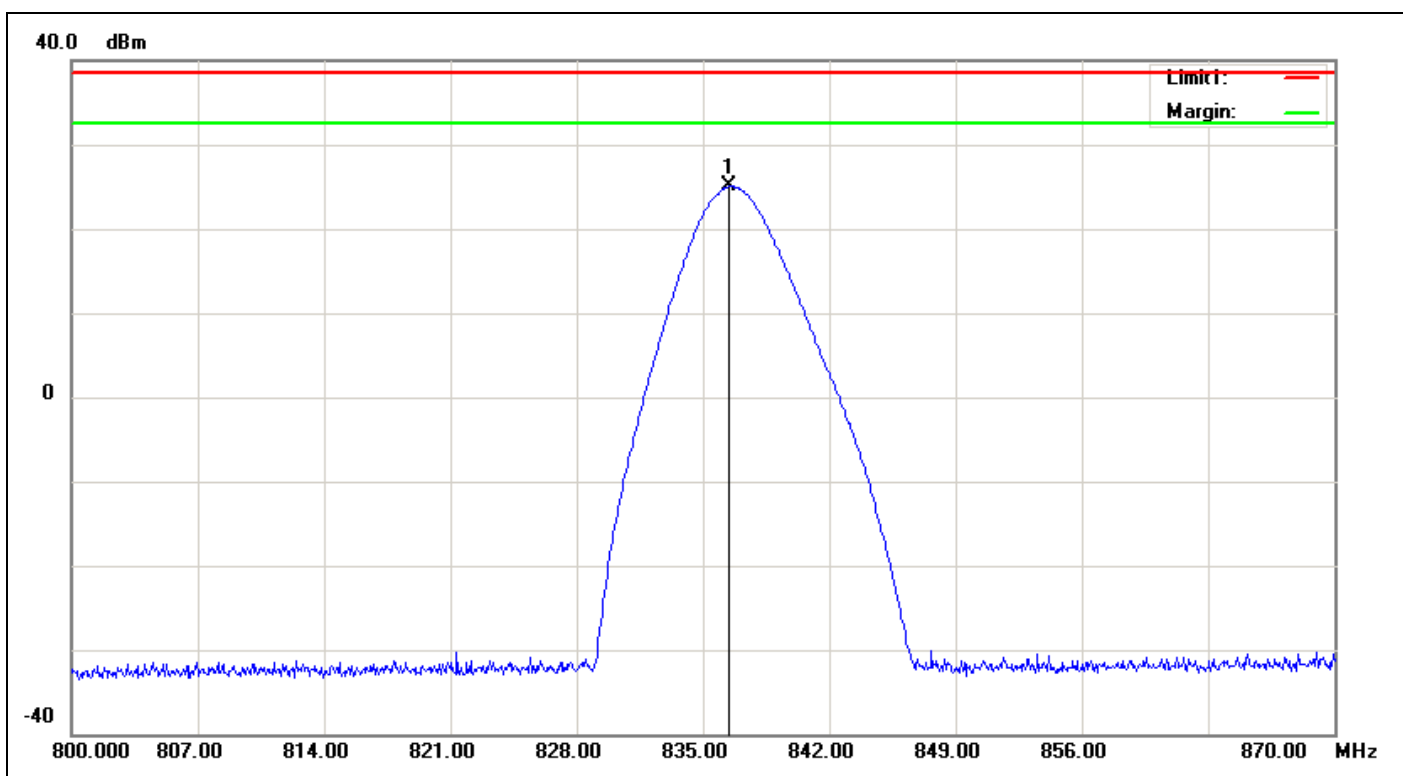


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	836.4000	19.53	3.4	6.36	22.49	38.45	-15.96	230	141	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 07:53:21
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

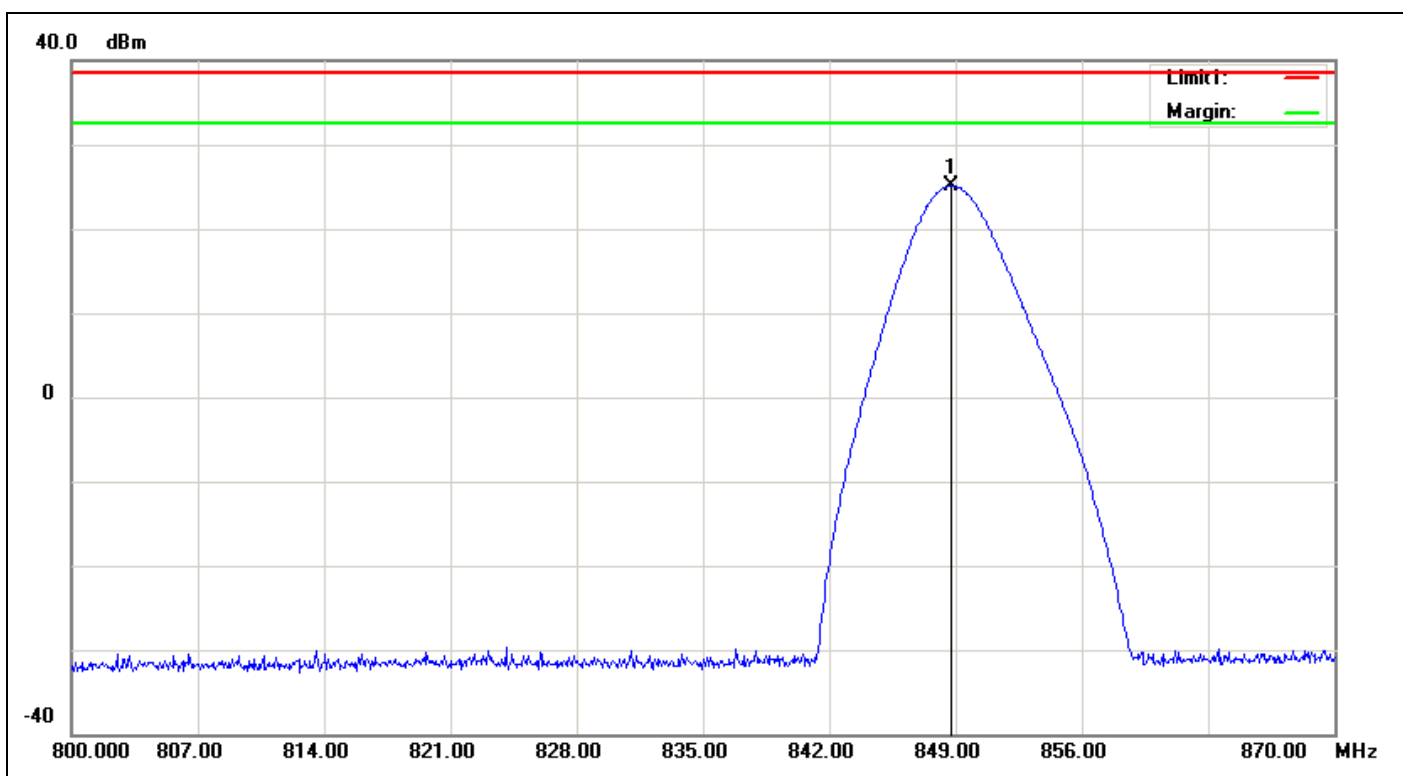


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	836.4700	22.1	3.4	6.36	25.06	38.45	-13.39	230	74	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:18:42
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		

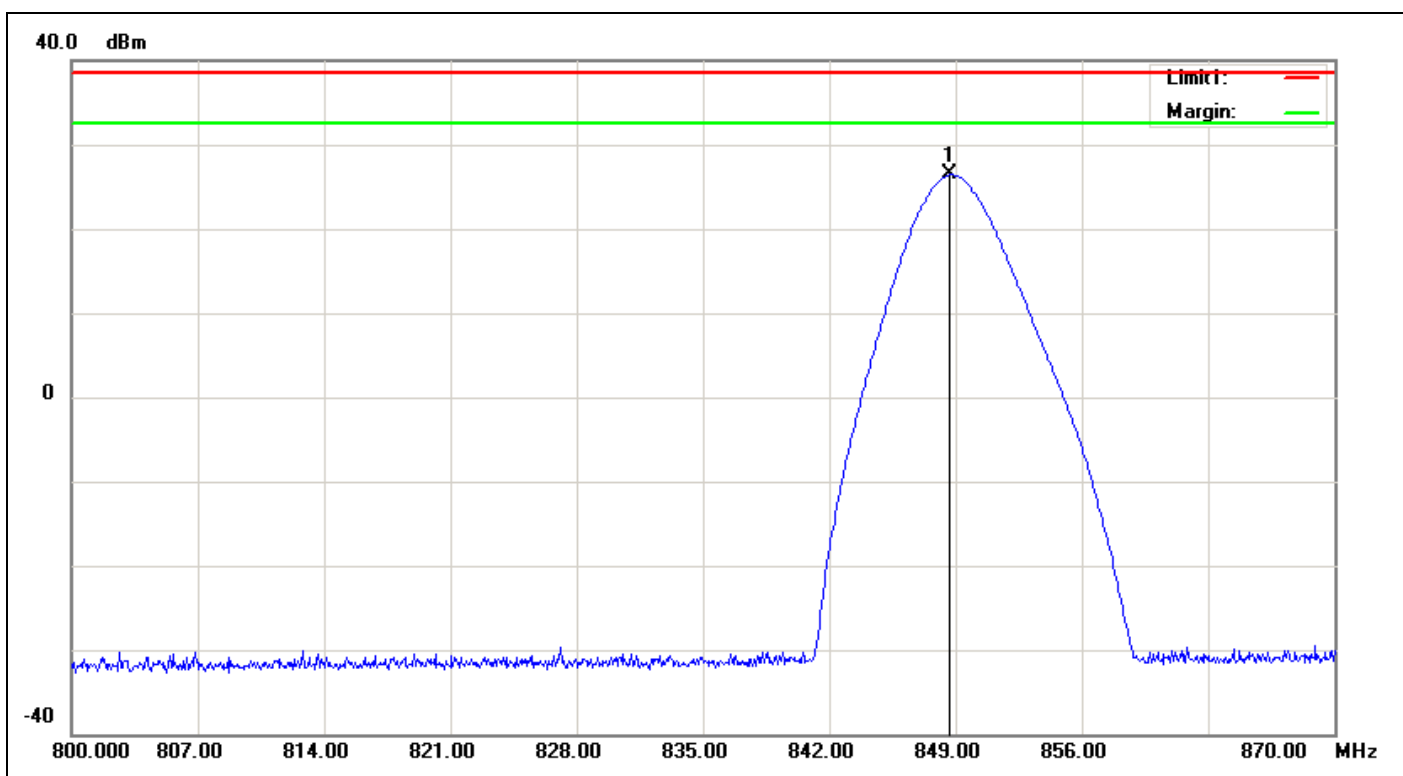


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	848.7900	22.12	3.4	6.4	25.12	38.45	-13.33	230	140	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:20:43
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	848.6500	23.44	3.4	6.4	26.44	38.45	-12.01	230	73	peak



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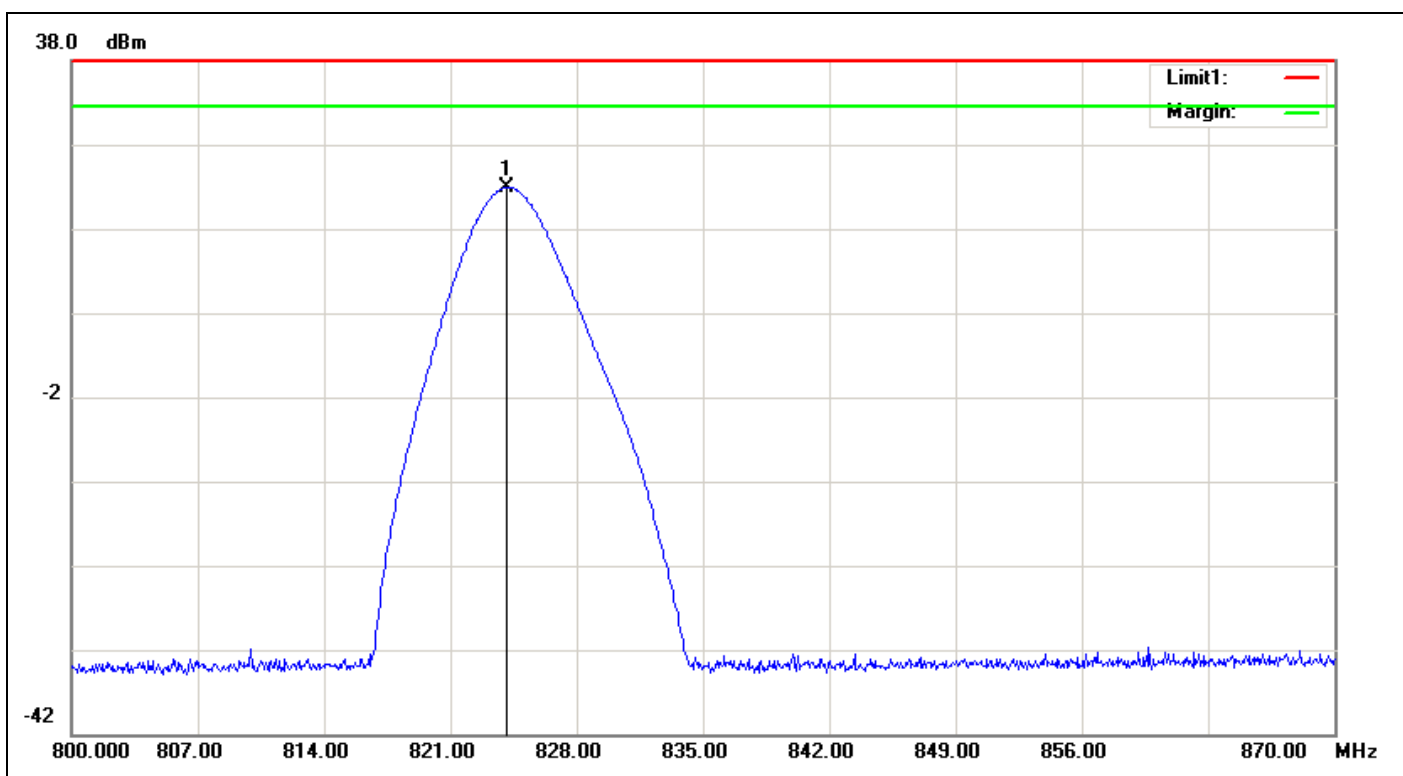
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:08:01
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		

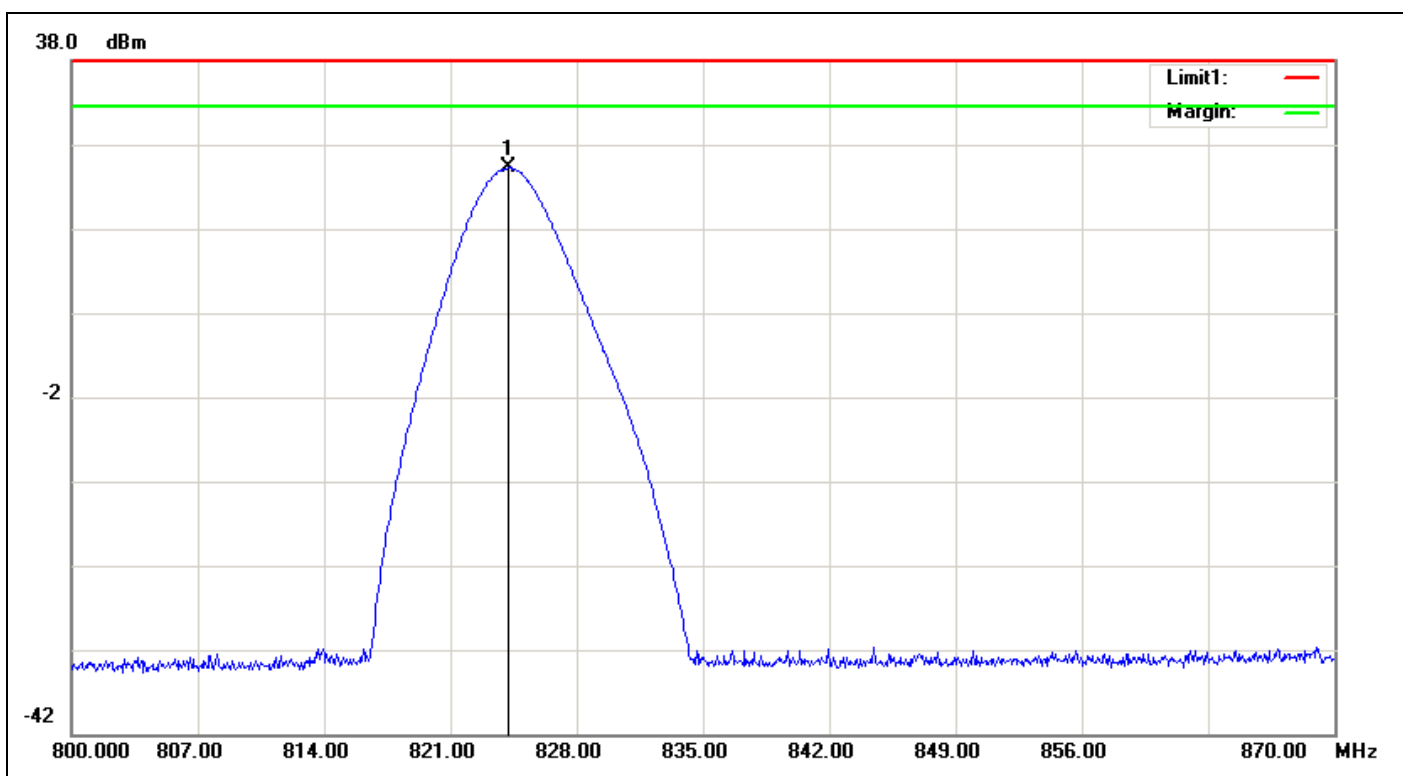


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	824.1500	20.09	3.39	6.24	22.94	38.45	-15.51	230	70	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:10:06
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	824.2200	22.38	3.39	6.24	25.23	38.45	-13.22	230	69	peak



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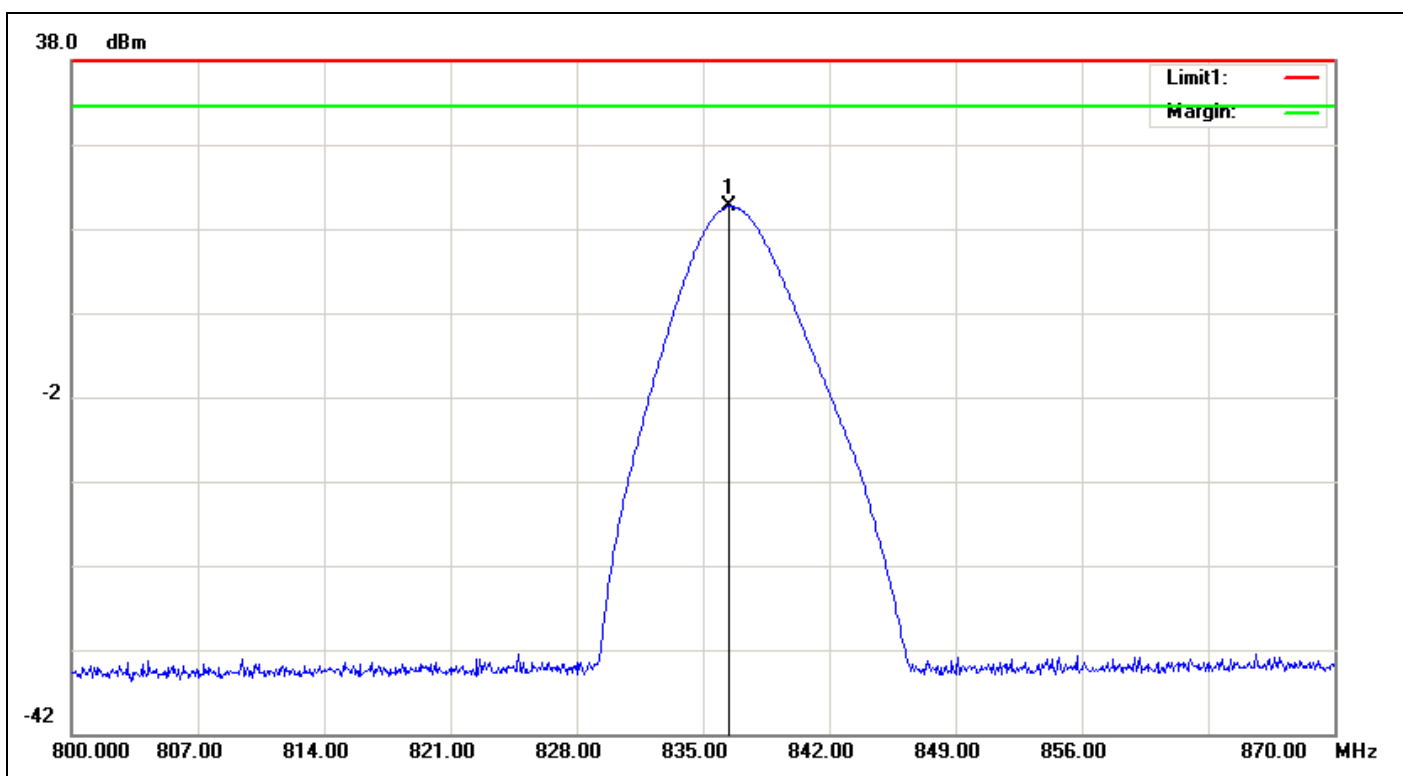
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:03:37
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	836.4700	17.73	3.4	6.36	20.69	38.45	-17.76	230	70	peak





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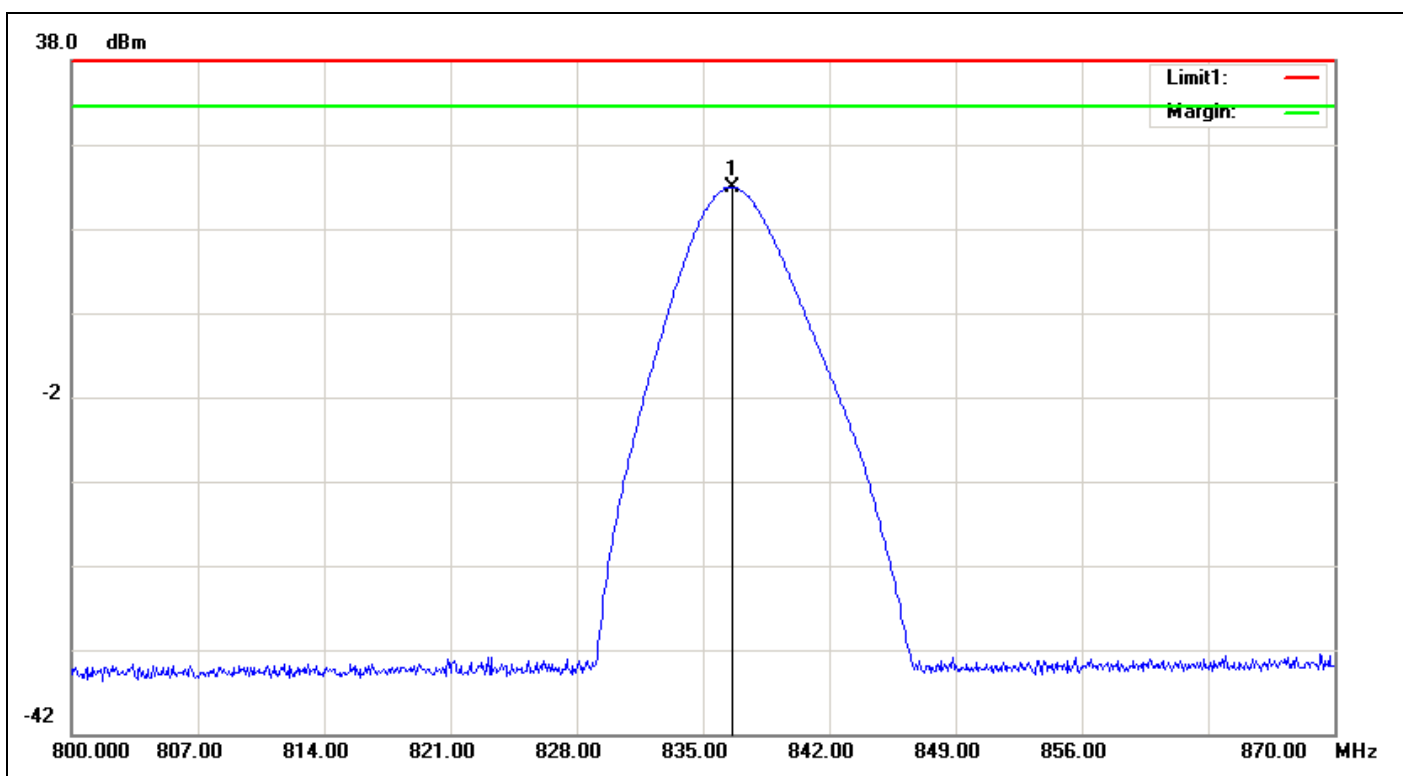
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 07:55:41
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

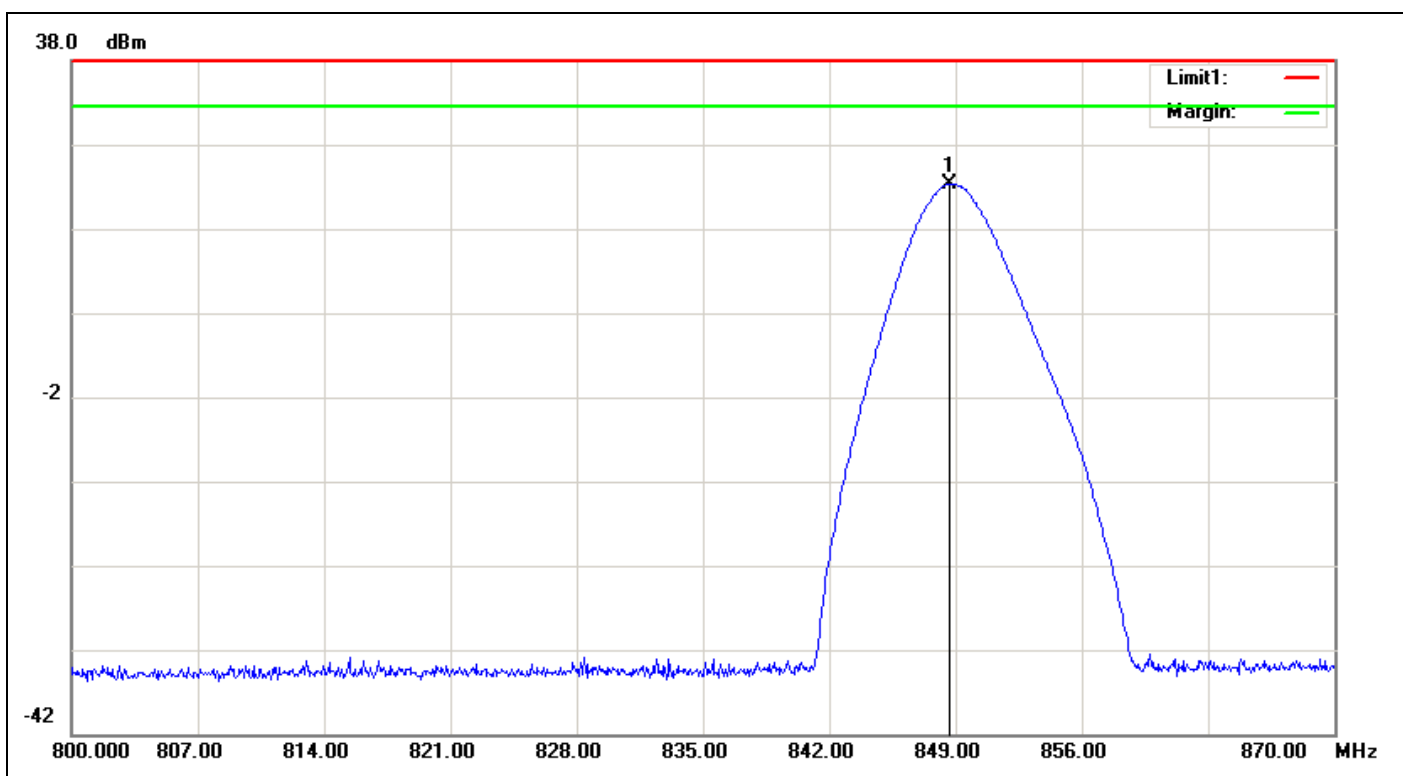


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	836.6100	20.03	3.4	6.37	23.00	38.45	-15.45	230	70	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:29:05
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	848.6500	20.39	3.4	6.4	23.39	38.45	-15.06	230	141	peak



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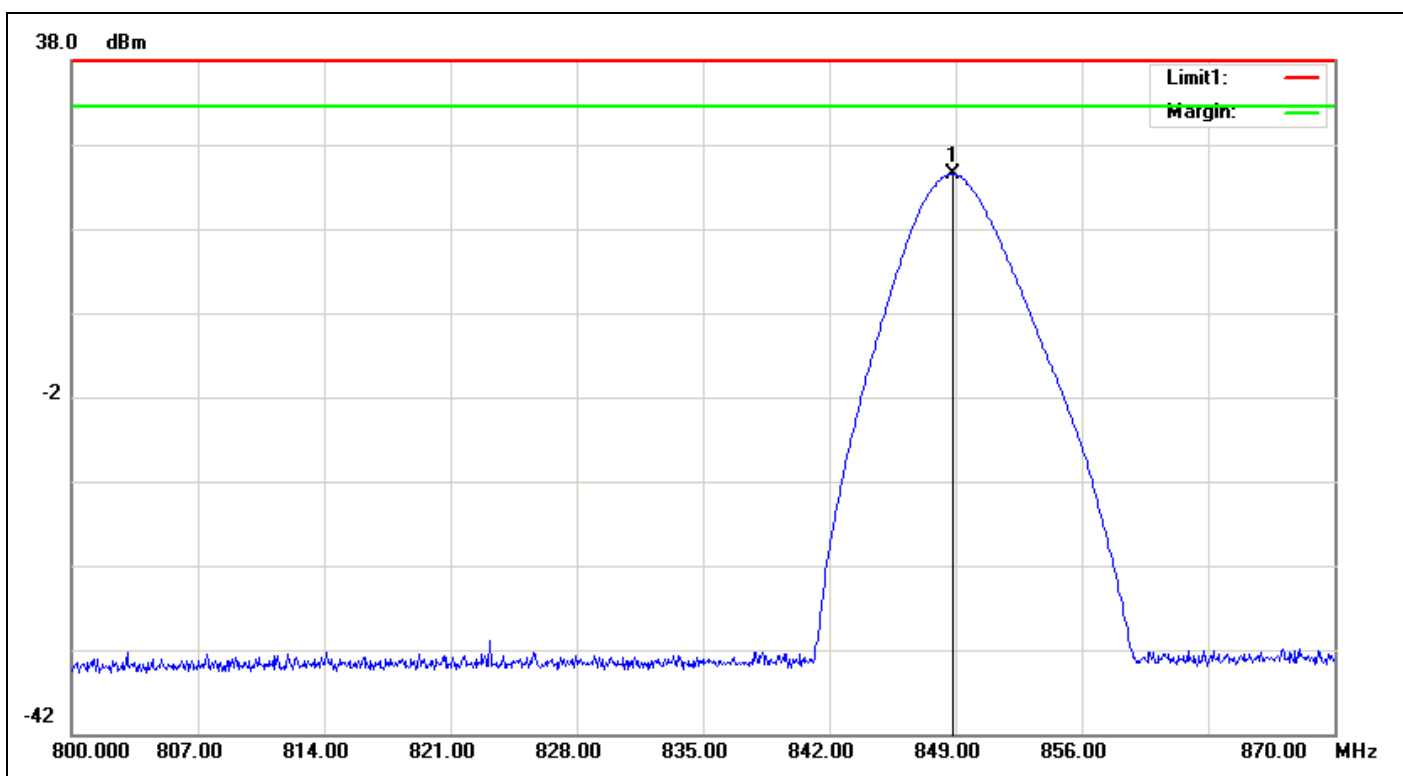
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:25:02
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	848.8600	21.51	3.4	6.4	24.51	38.45	-13.94	230	74	peak



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No.139,Wugong Rd., Wugu Township,Taipei Country24891,Taiwan.

五股實驗室 Wugu LAB

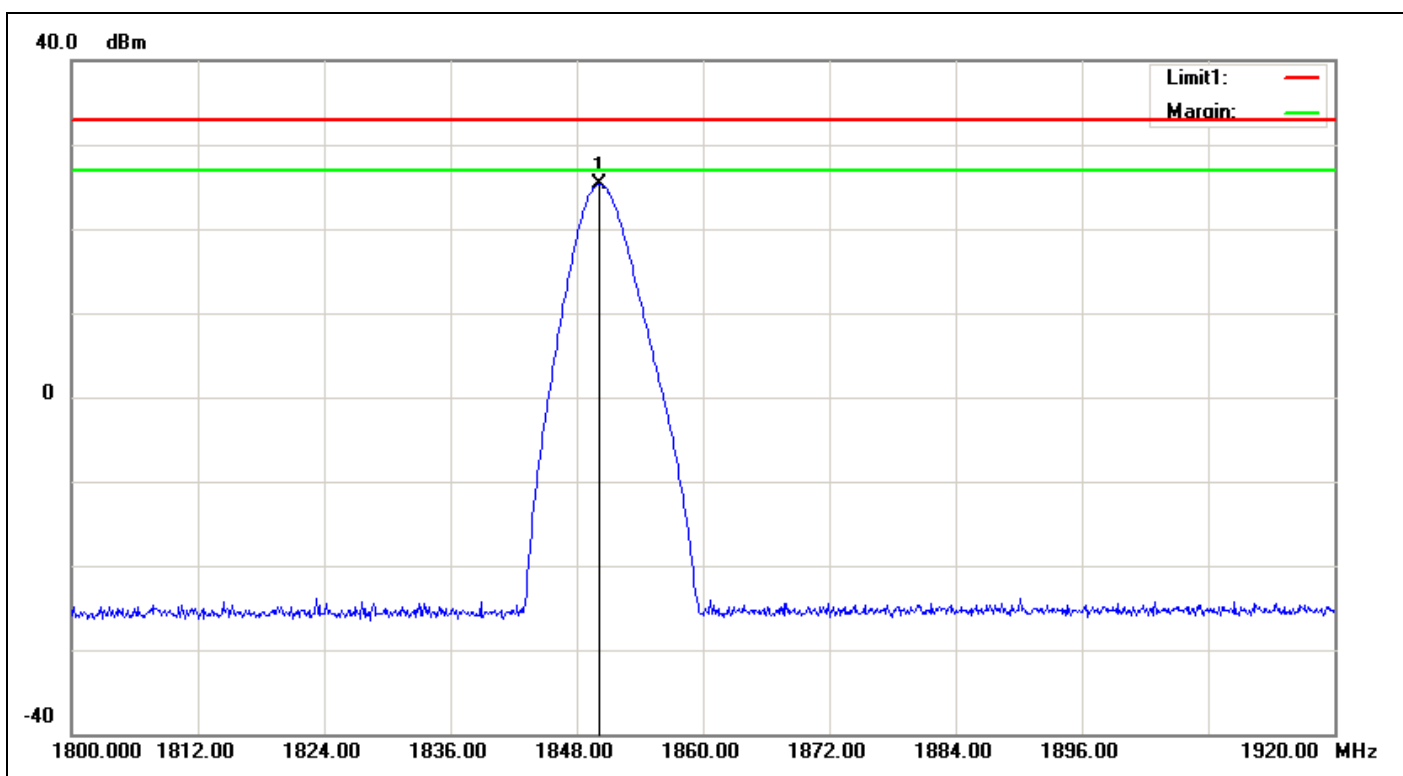
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:36:00
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

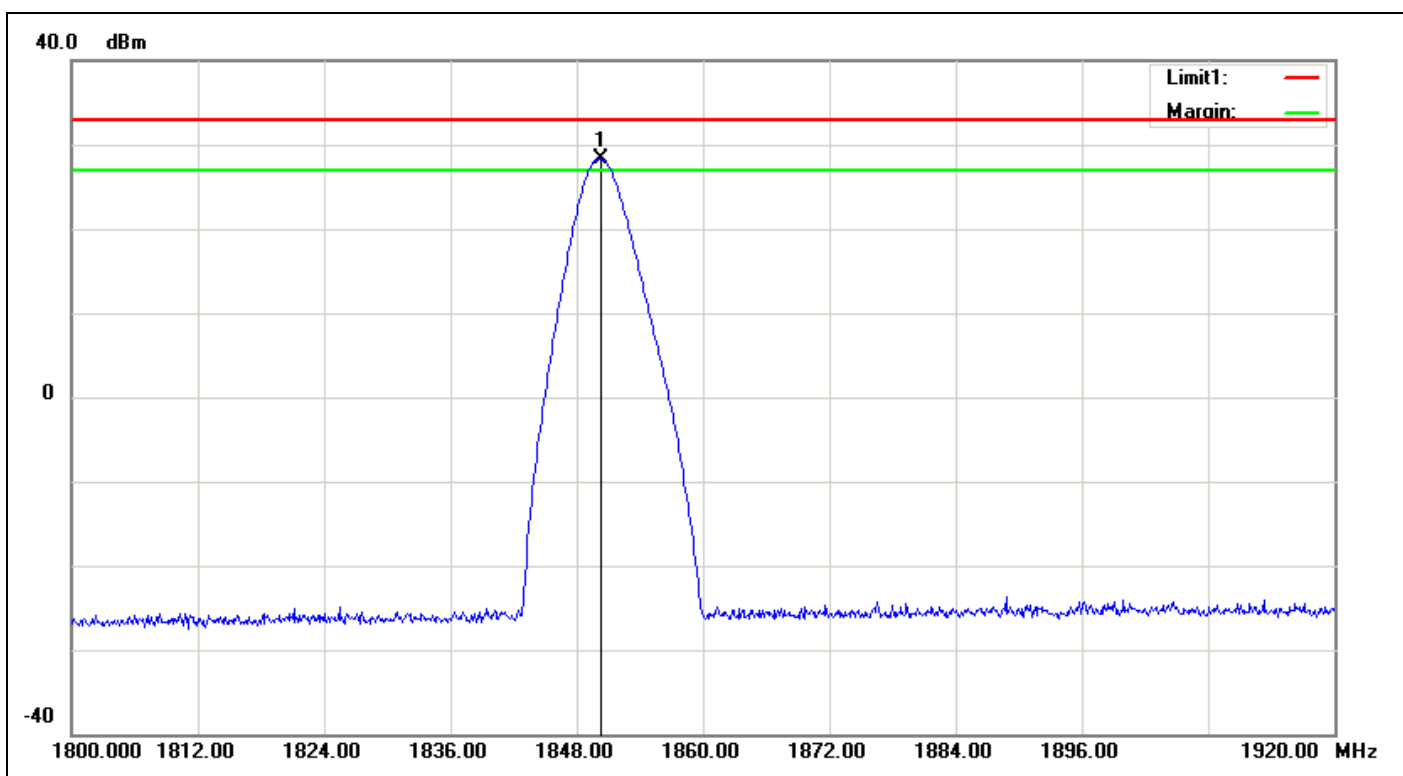


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1850.160	24.96	5.37	5.67	25.26	33.00	-7.74	230	306	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 09:32:59</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-512</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1850.280	28.01	5.37	5.67	28.31	33.00	-4.69	230	239	peak



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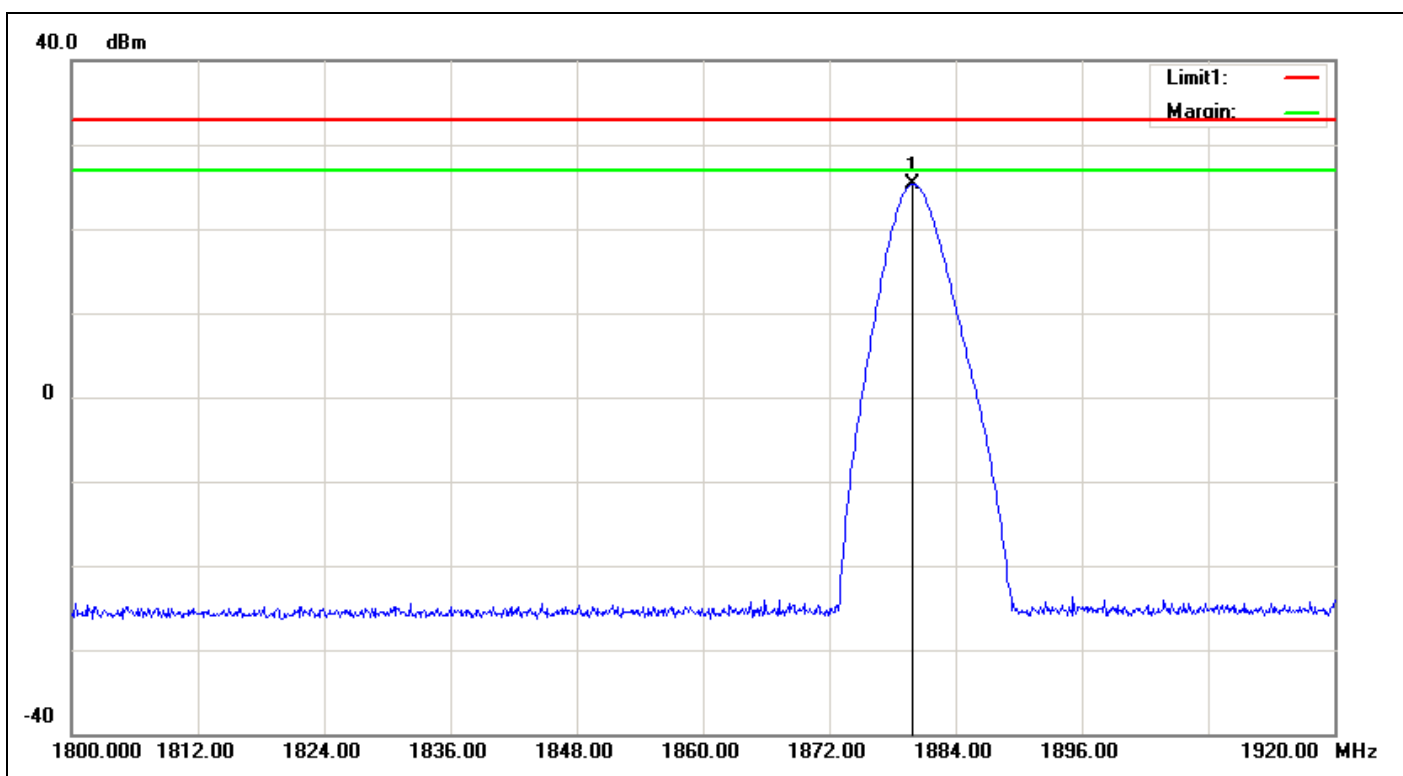
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:38:32
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1879.920	25.1	5.42	5.62	25.30	33.00	-7.70	230	287	peak



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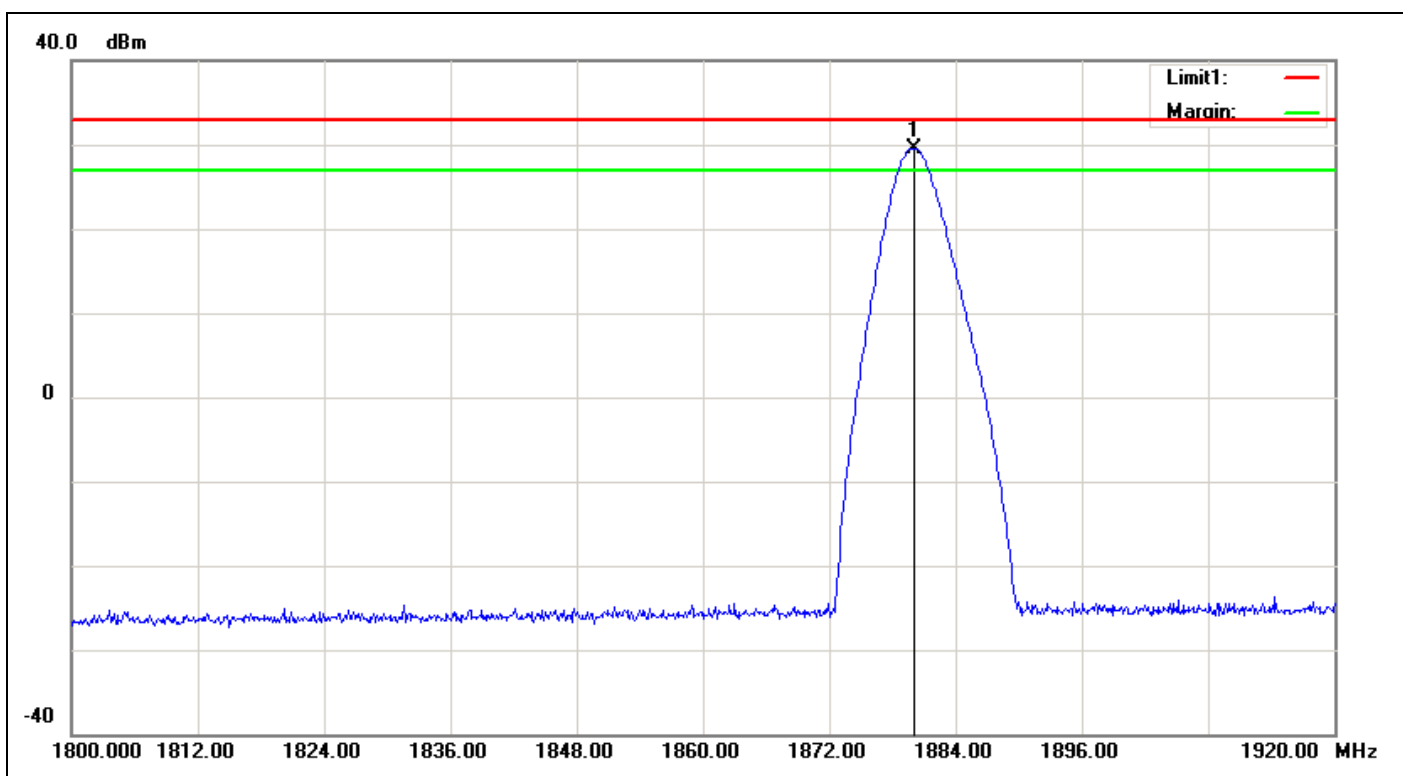
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 09:40:43</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-661</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1880.040	29.37	5.42	5.62	29.57	33.00	-3.43	230	349	peak



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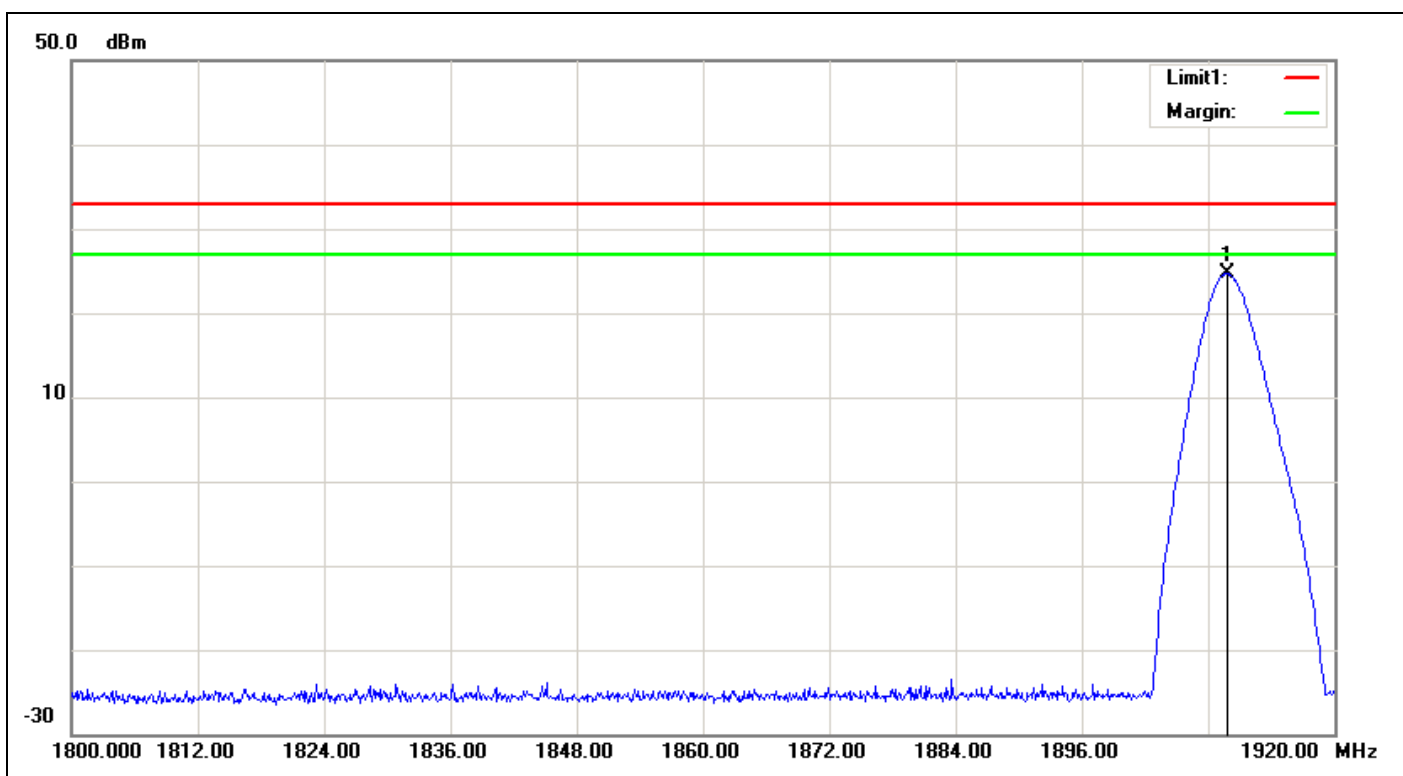
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:45:10
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



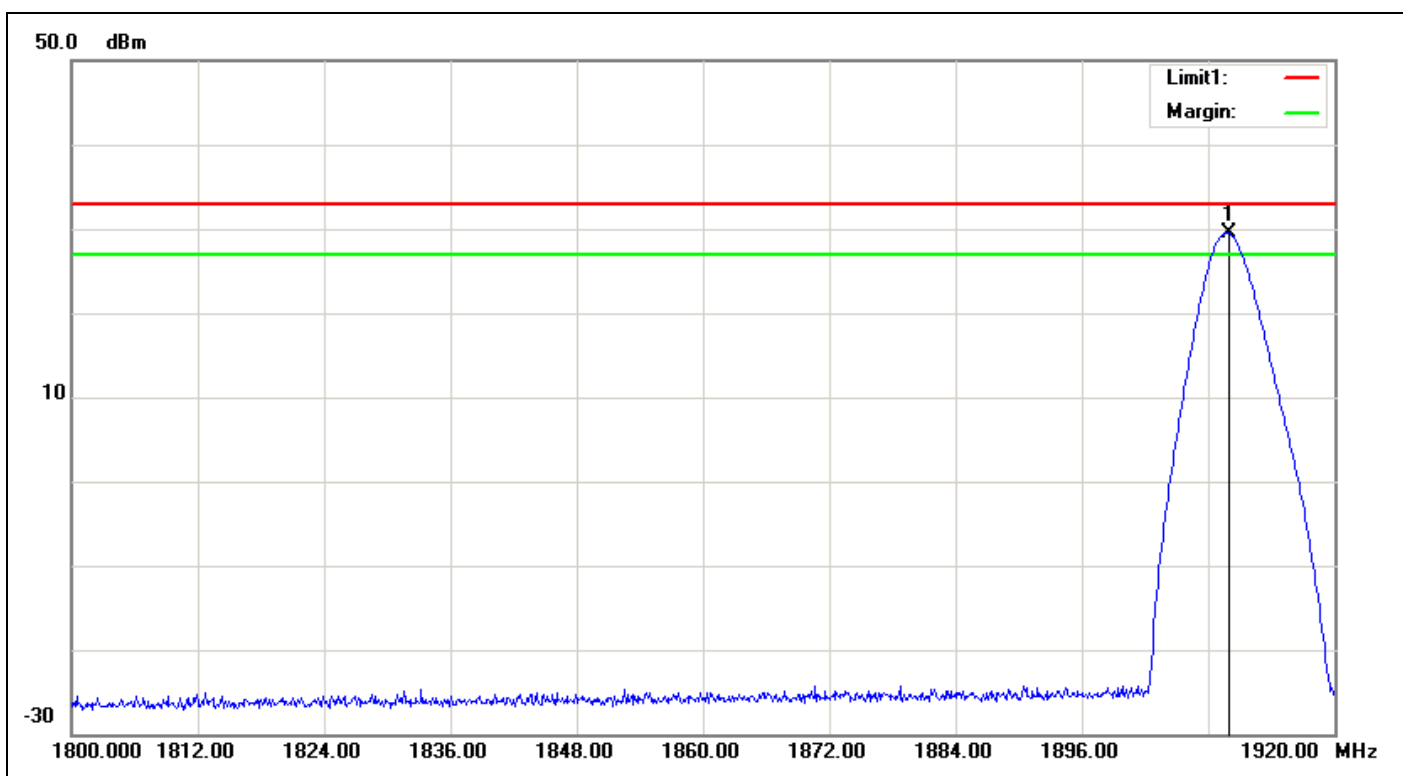
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1909.800	24.63	5.48	5.56	24.71	33.00	-8.29	230	180	peak





### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 09:43:07</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1909.920	29.47	5.48	5.56	29.55	33.00	-3.45	230	348	peak



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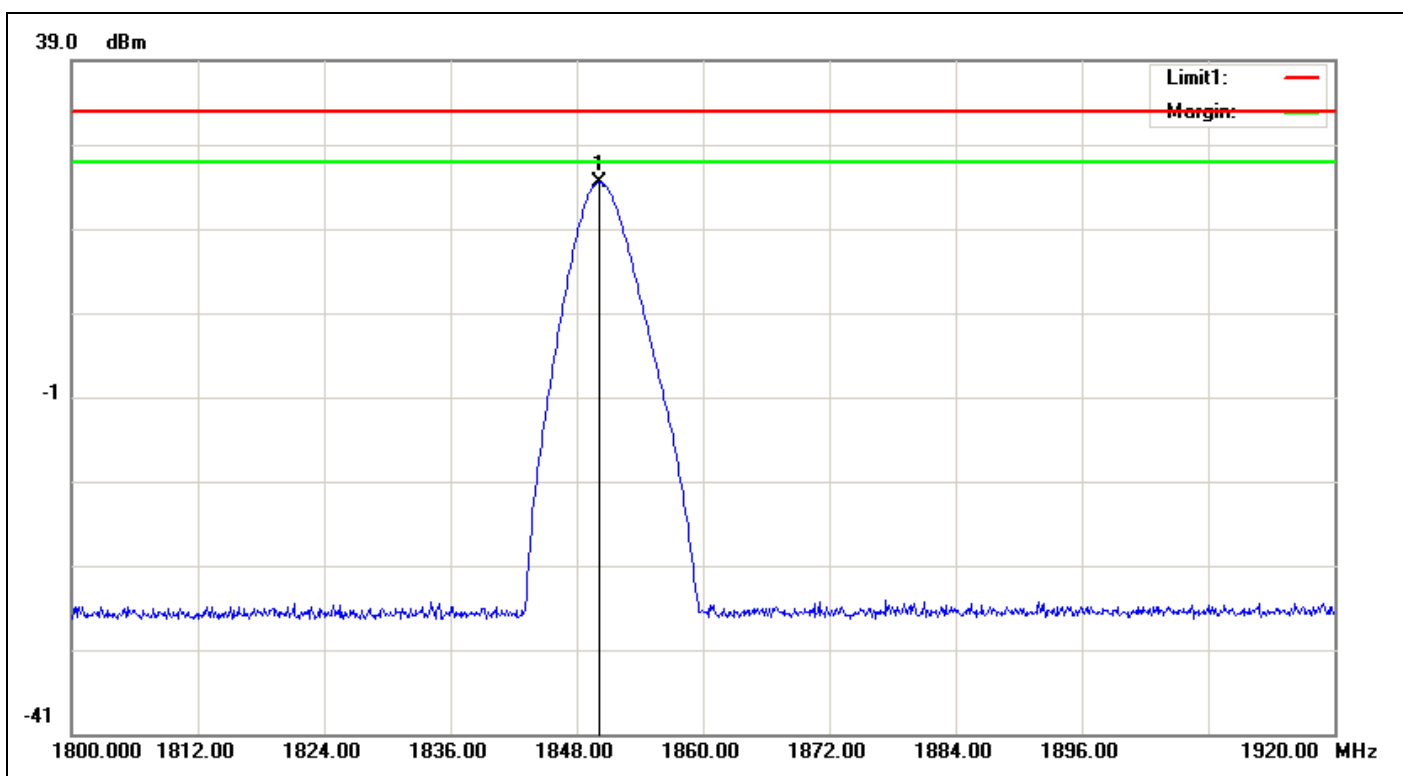
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:06:38
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

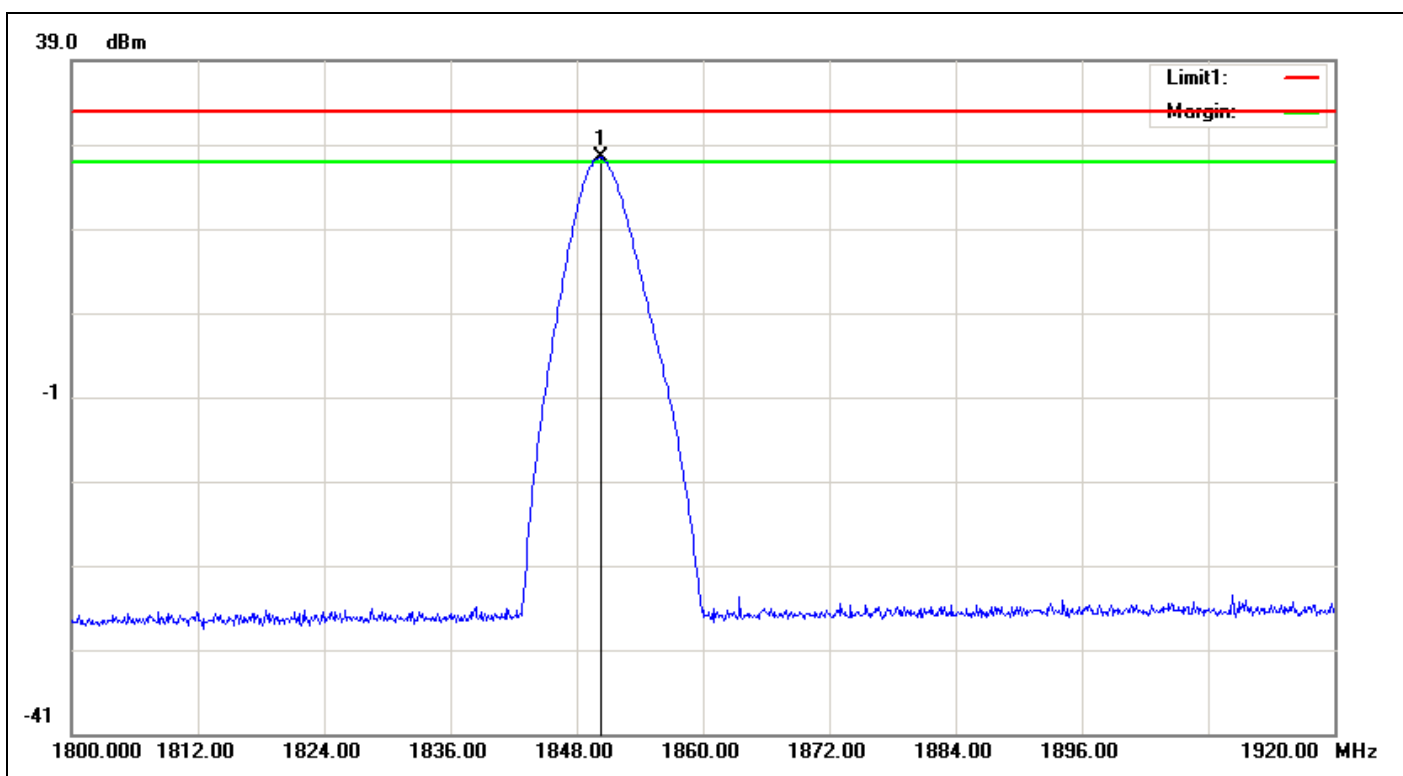


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1850.160	24.2	5.37	5.67	24.50	33.00	-8.50	230	306	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:10:50</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-512</b>		

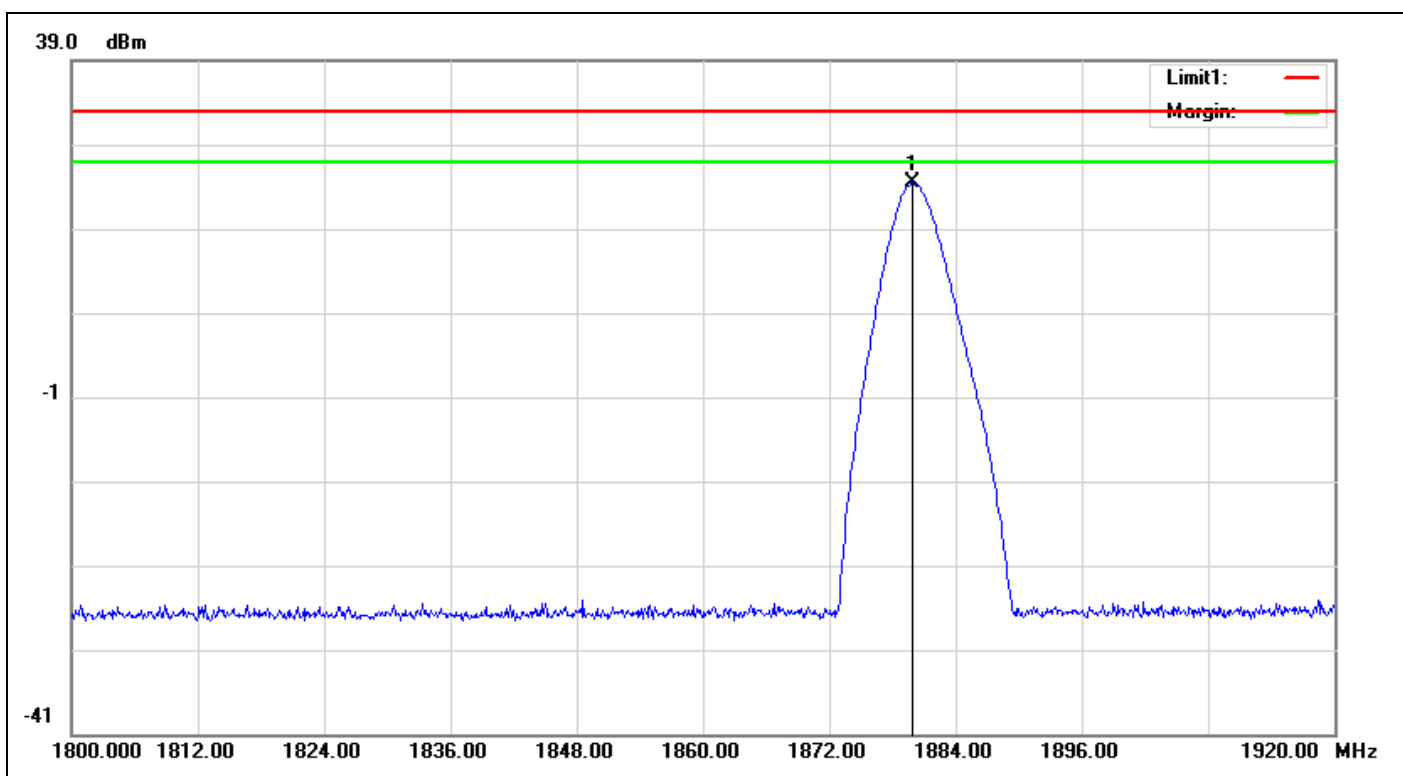


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1850.280	27.13	5.37	5.67	27.43	33.00	-5.57	230	349	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:02:15</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-661</b>		

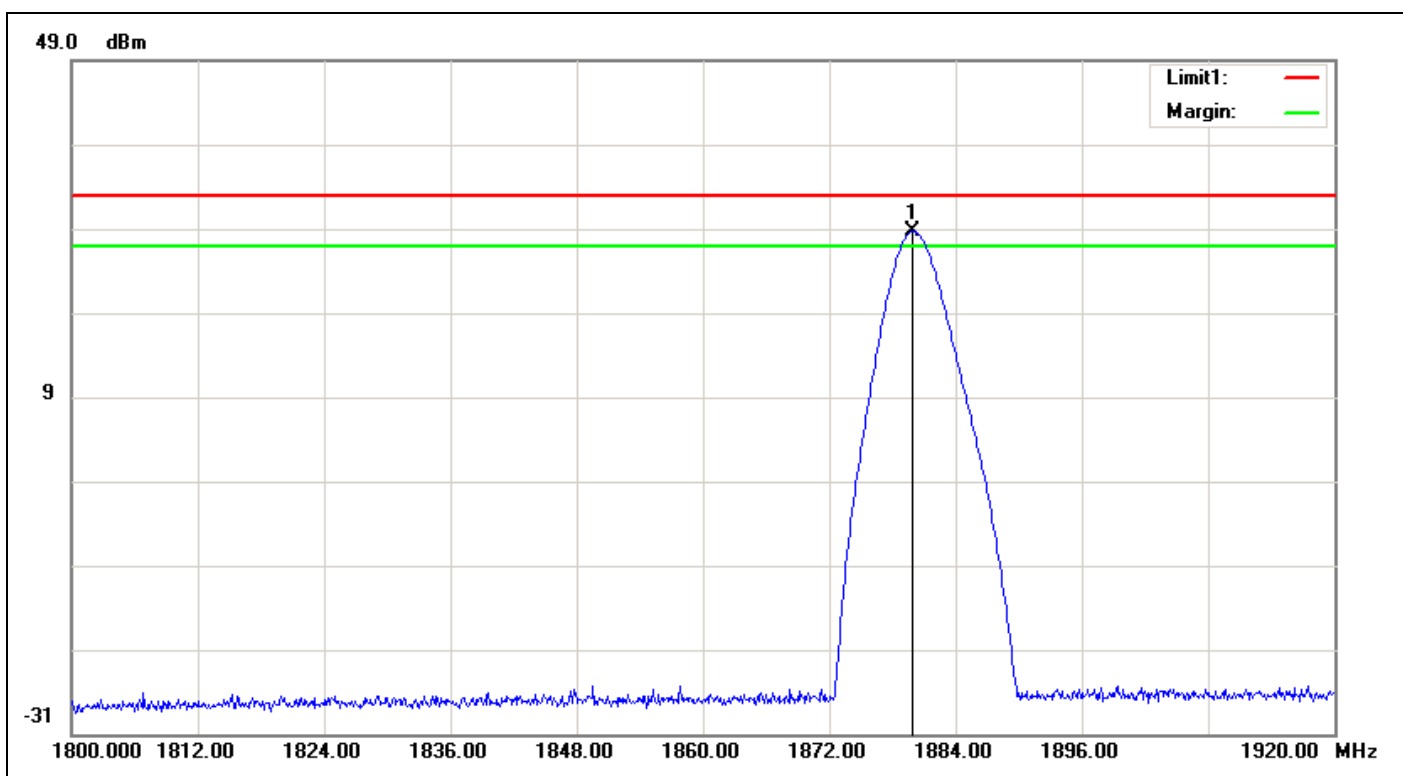


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1879.920	24.21	5.42	5.62	24.41	33.00	-8.59	230	285	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:58:02
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1879.920	28.48	5.42	5.62	28.68	33.00	-4.32	230	347	peak



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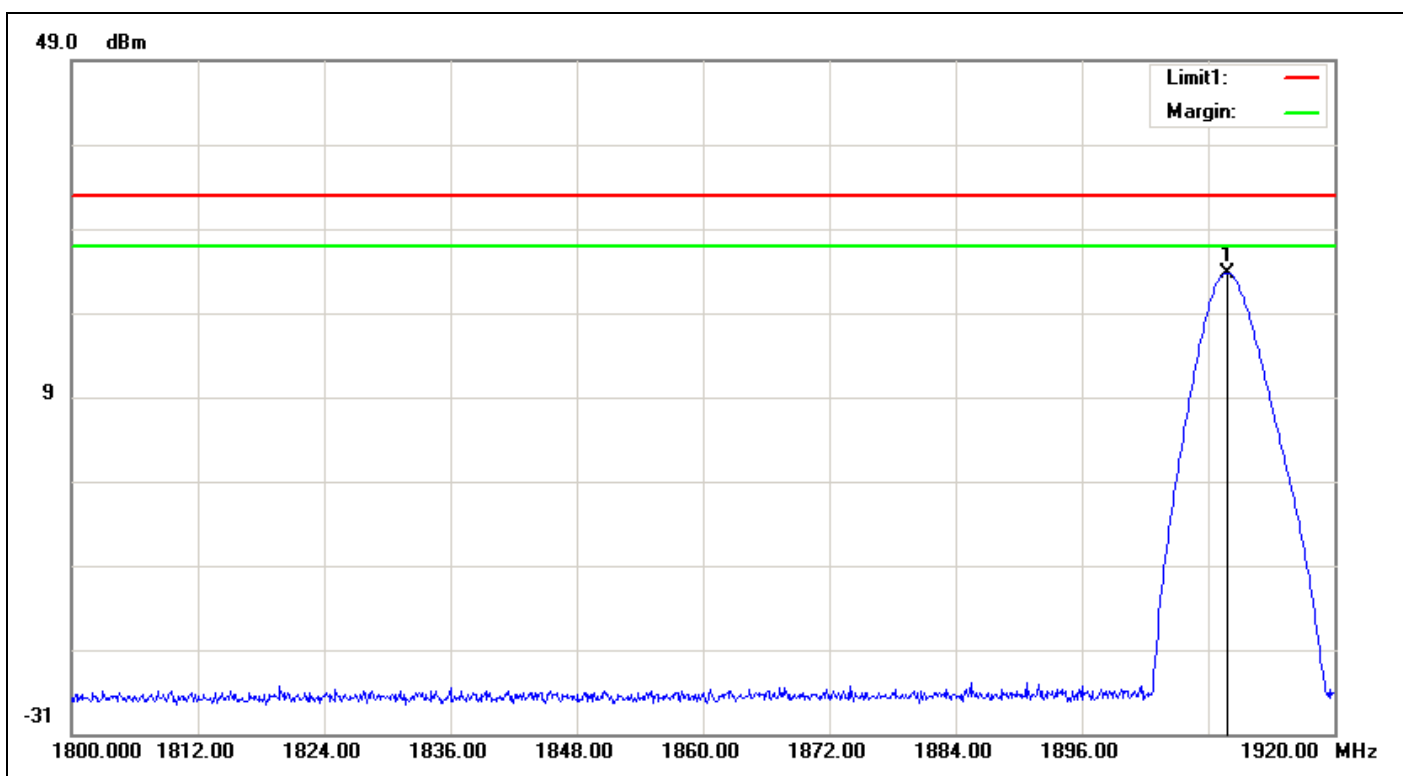
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Fax:

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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:47:30
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		

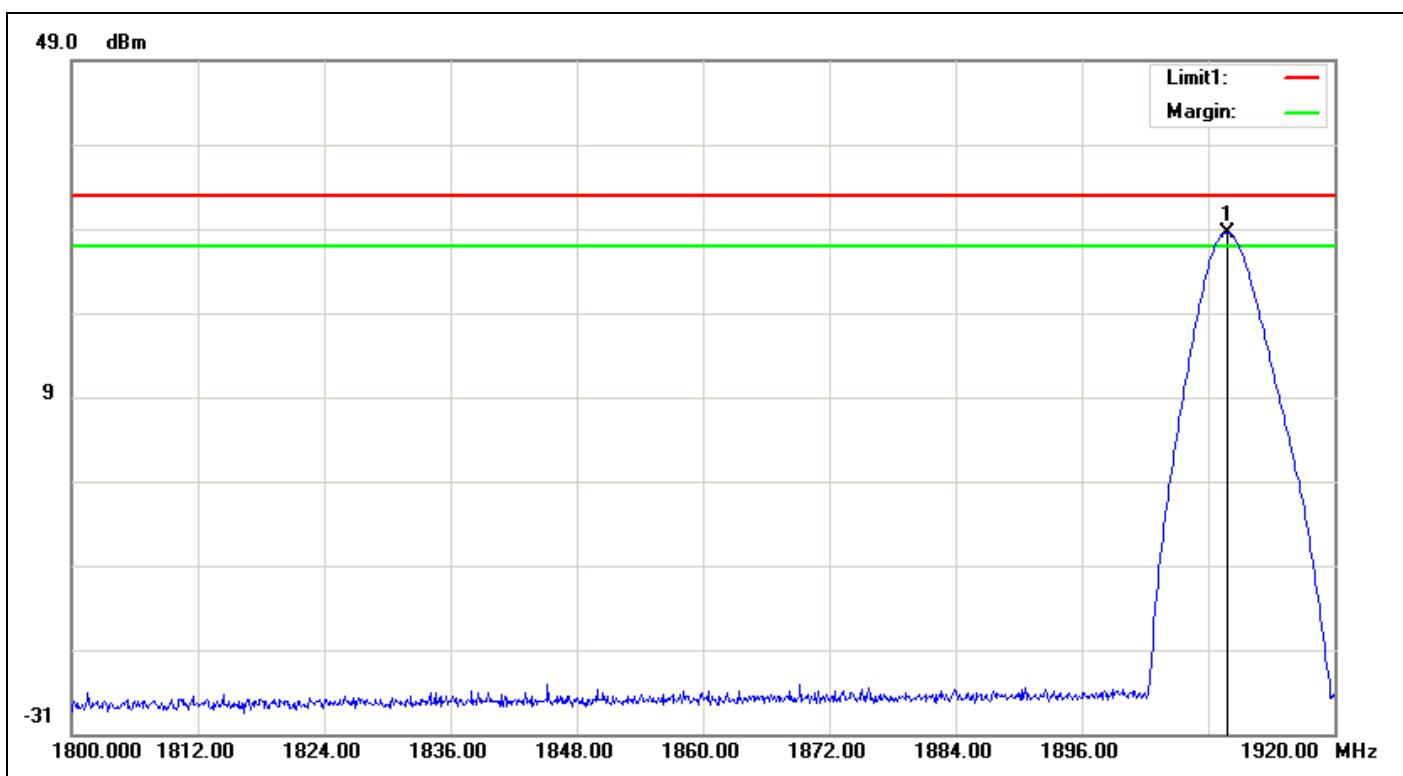


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1909.800	23.69	5.48	5.56	23.77	33.00	-9.23	230	179	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 09:53:48</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1909.800	28.52	5.48	5.56	28.60	33.00	-4.40	230	346	peak



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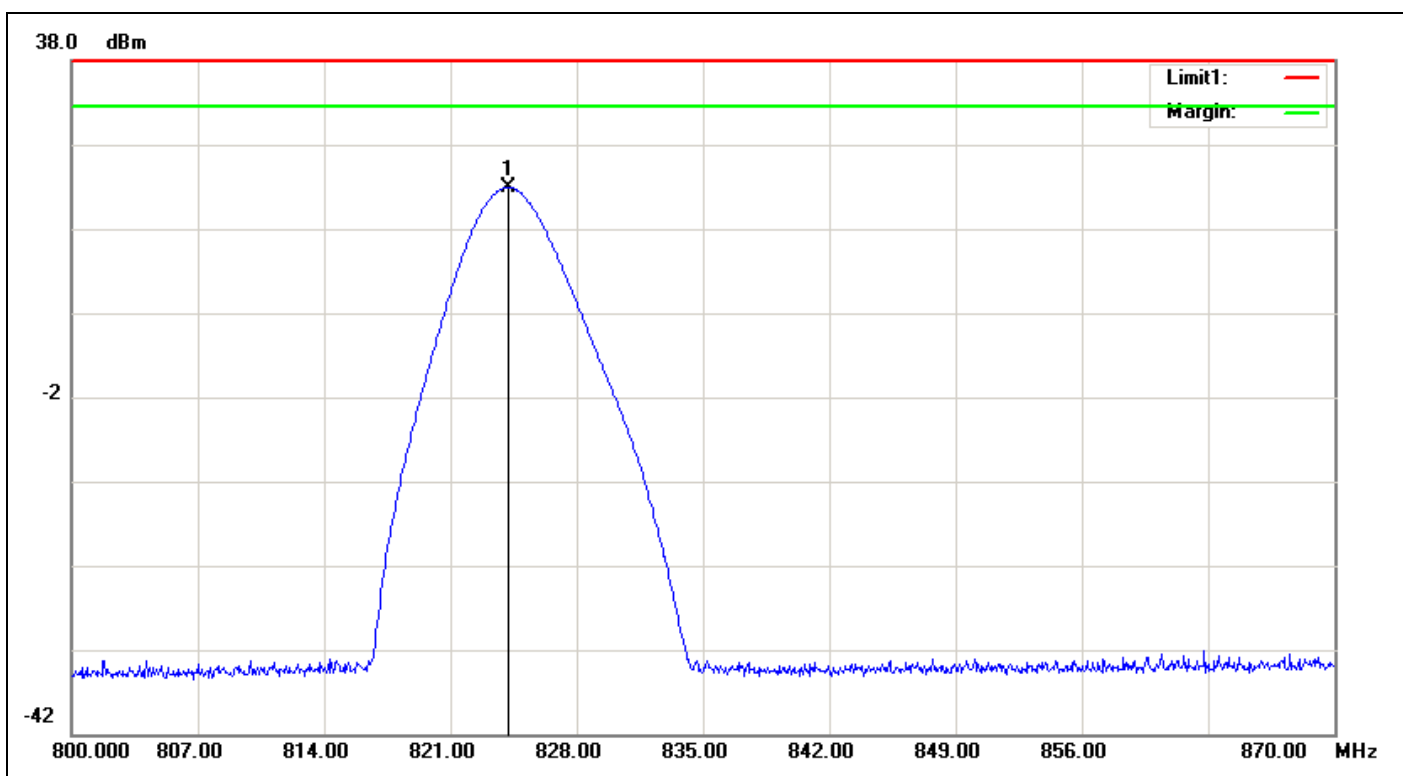
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/15</b>	<b>Time:下午 08:05:57</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-128</b>		



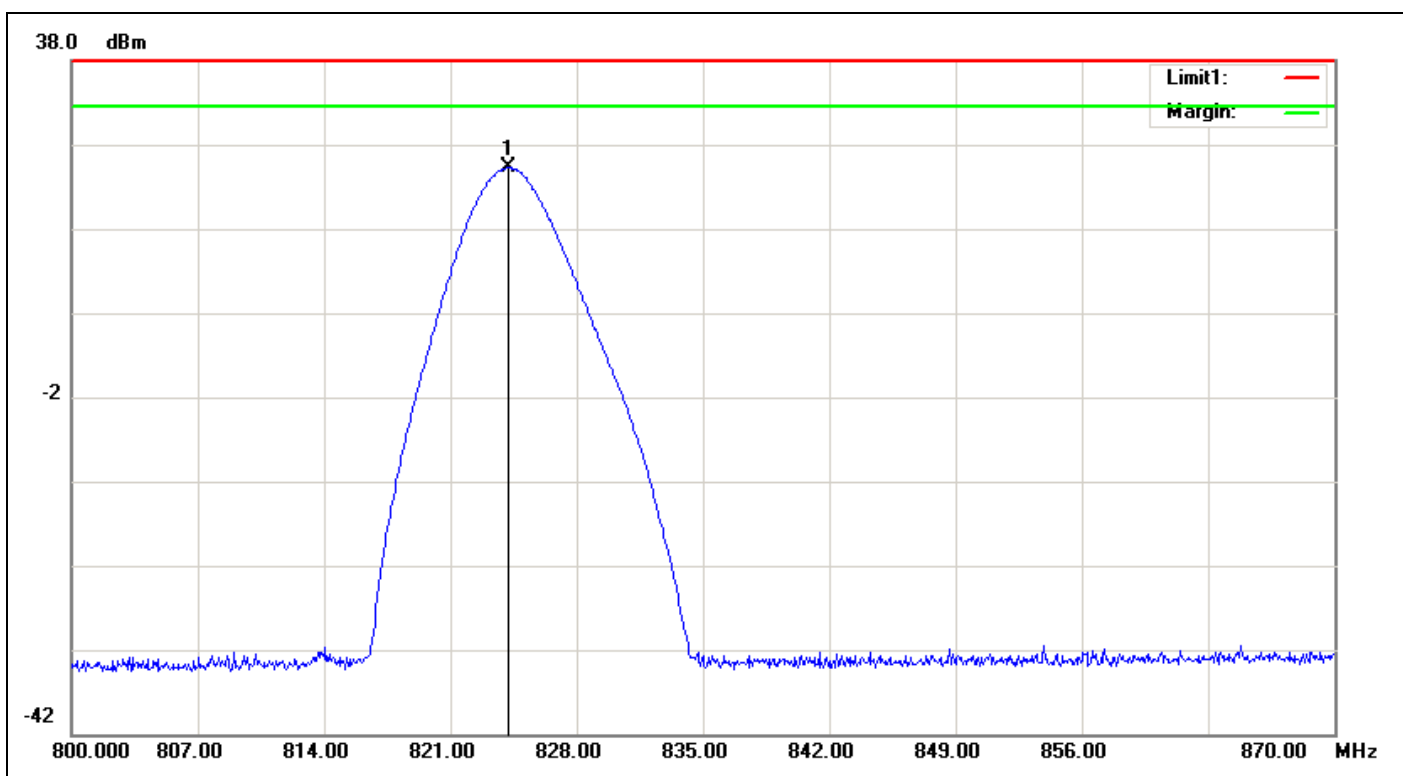
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	824.2200	20.06	3.39	6.24	22.91	38.45	-15.54	230	68	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:12:08
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		

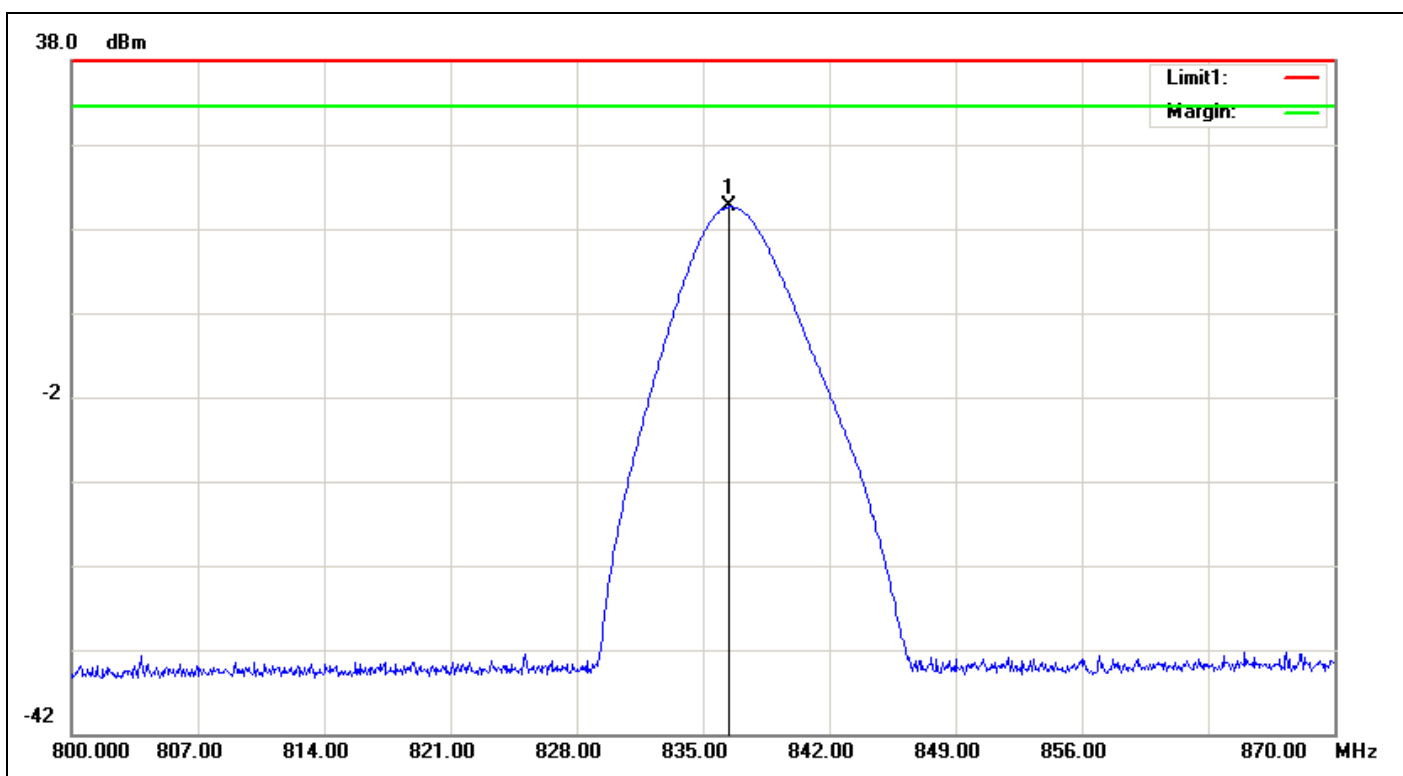


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	824.2200	22.39	3.39	6.24	25.24	38.45	-13.21	230	70	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 07:59:54
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	836.4700	17.69	3.4	6.36	20.65	38.45	-17.80	230	73	peak



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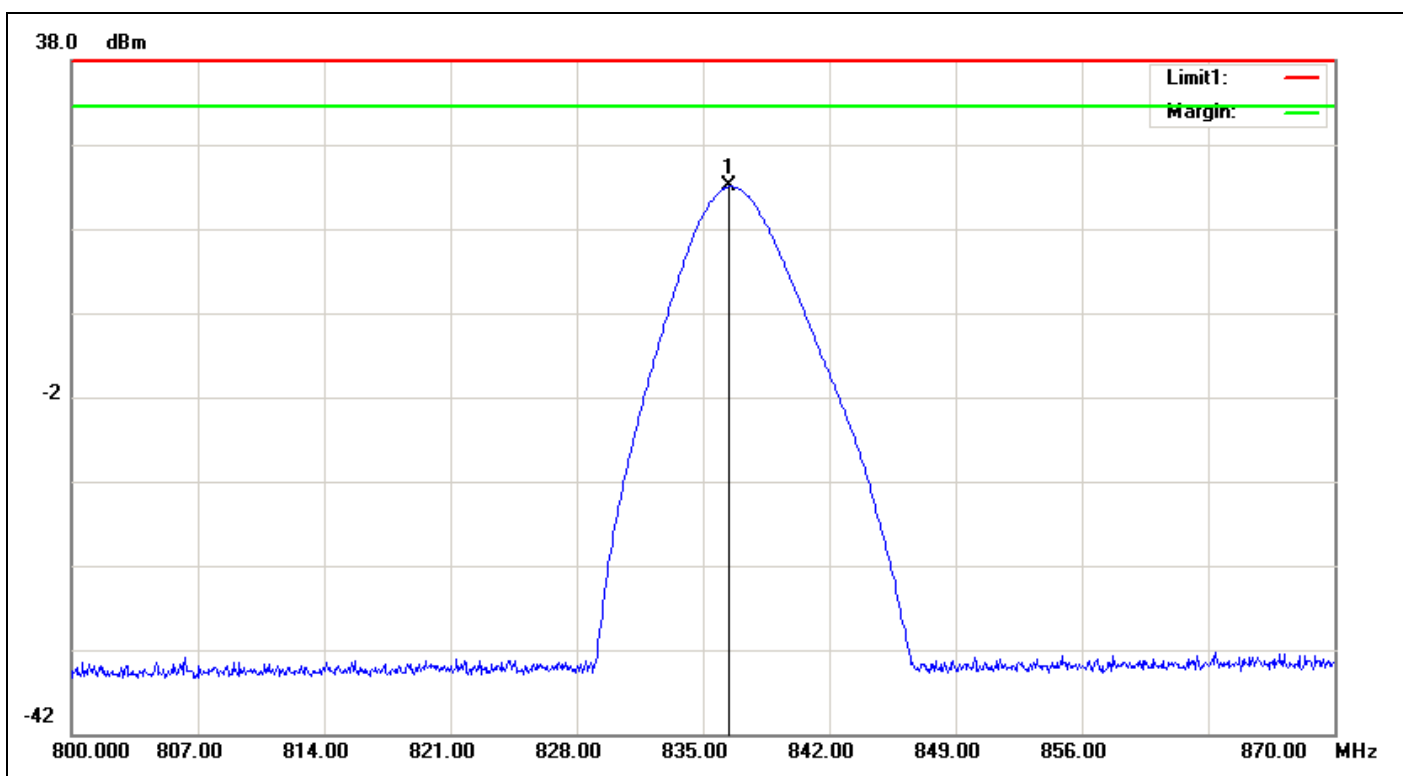
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 07:57:49
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	836.4700	20.06	3.4	6.36	23.02	38.45	-15.43	230	70	peak



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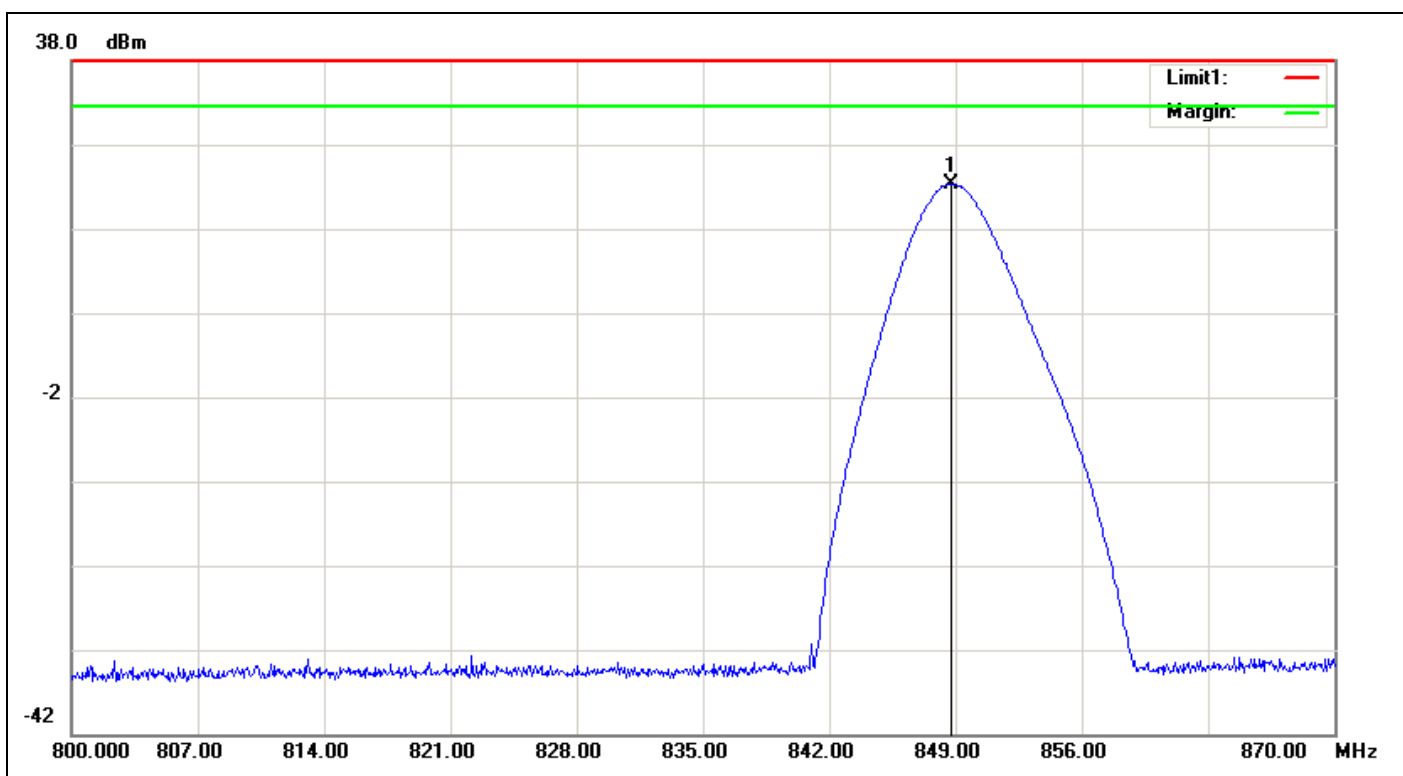
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:27:03
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		

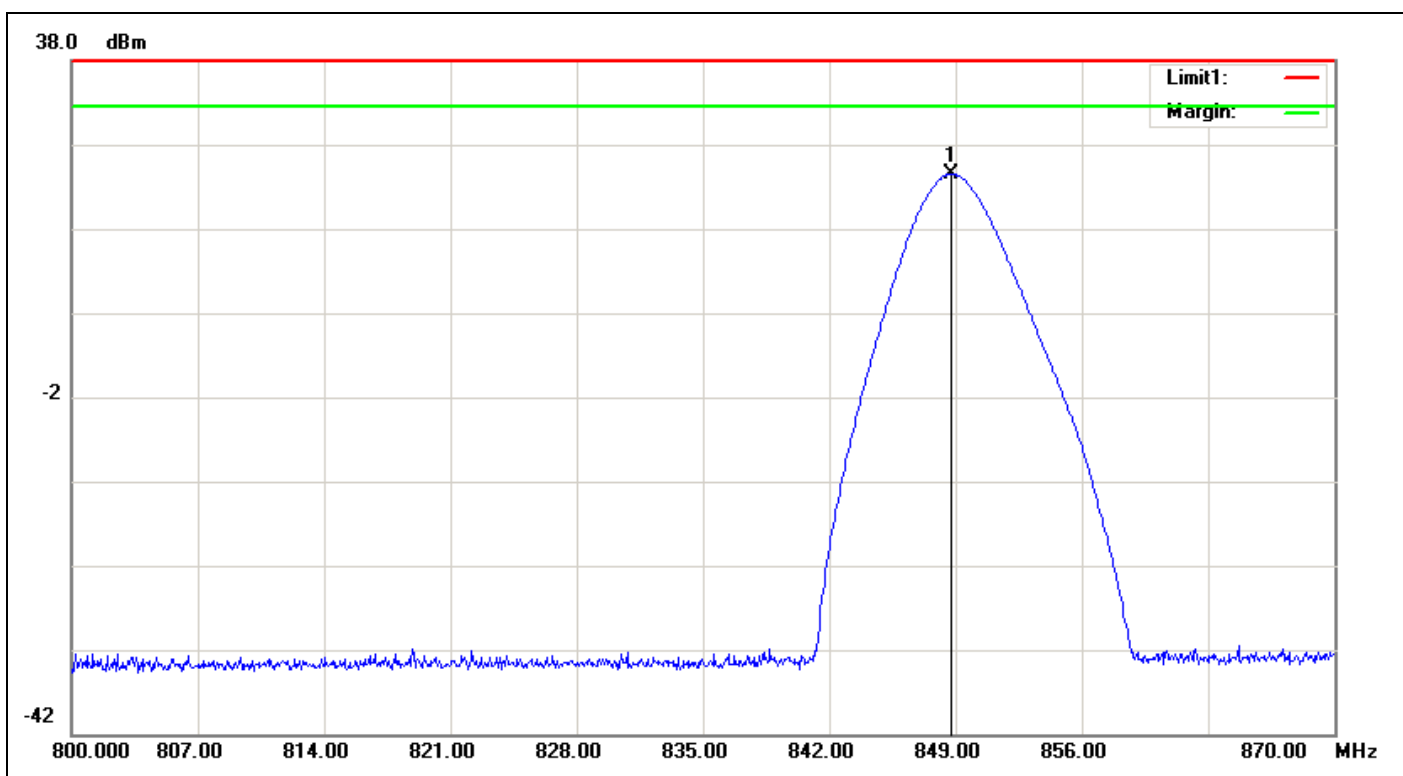


No.	Frequency	S.G.	Cable	Ant.Gain	Result	Limit	Margin	Theta	Azimuth	Remark
	(MHz)	(dBm)	loss(dB)	(dBi)	(dBm)	(dBm)	dB	( ° )	( ° )	
1	848.7200	20.37	3.4	6.4	23.37	38.45	-15.08	230	140	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/15	Time:下午 08:23:01
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	848.7200	21.49	3.4	6.4	24.49	38.45	-13.96	230	73	peak



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五股實驗室 Wugu LAB

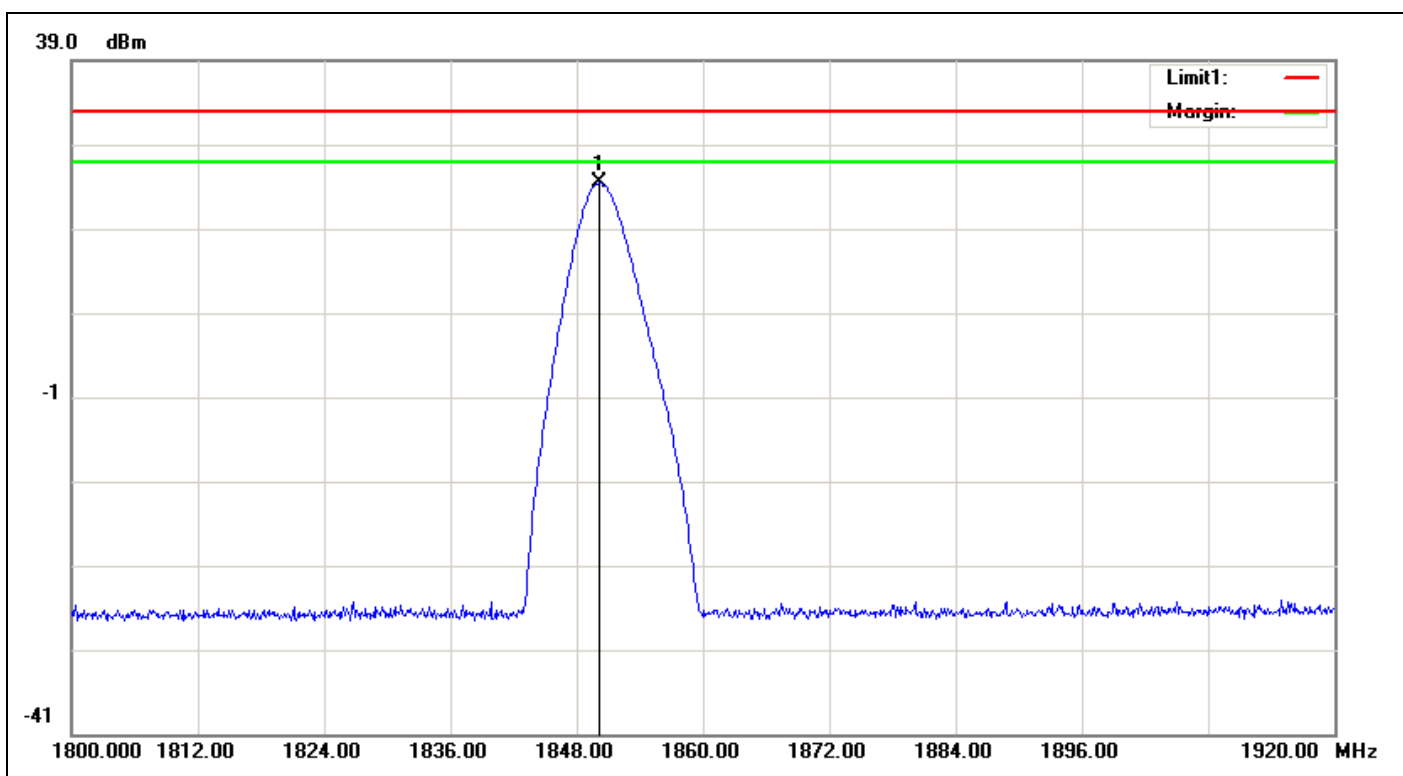
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:04:37
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

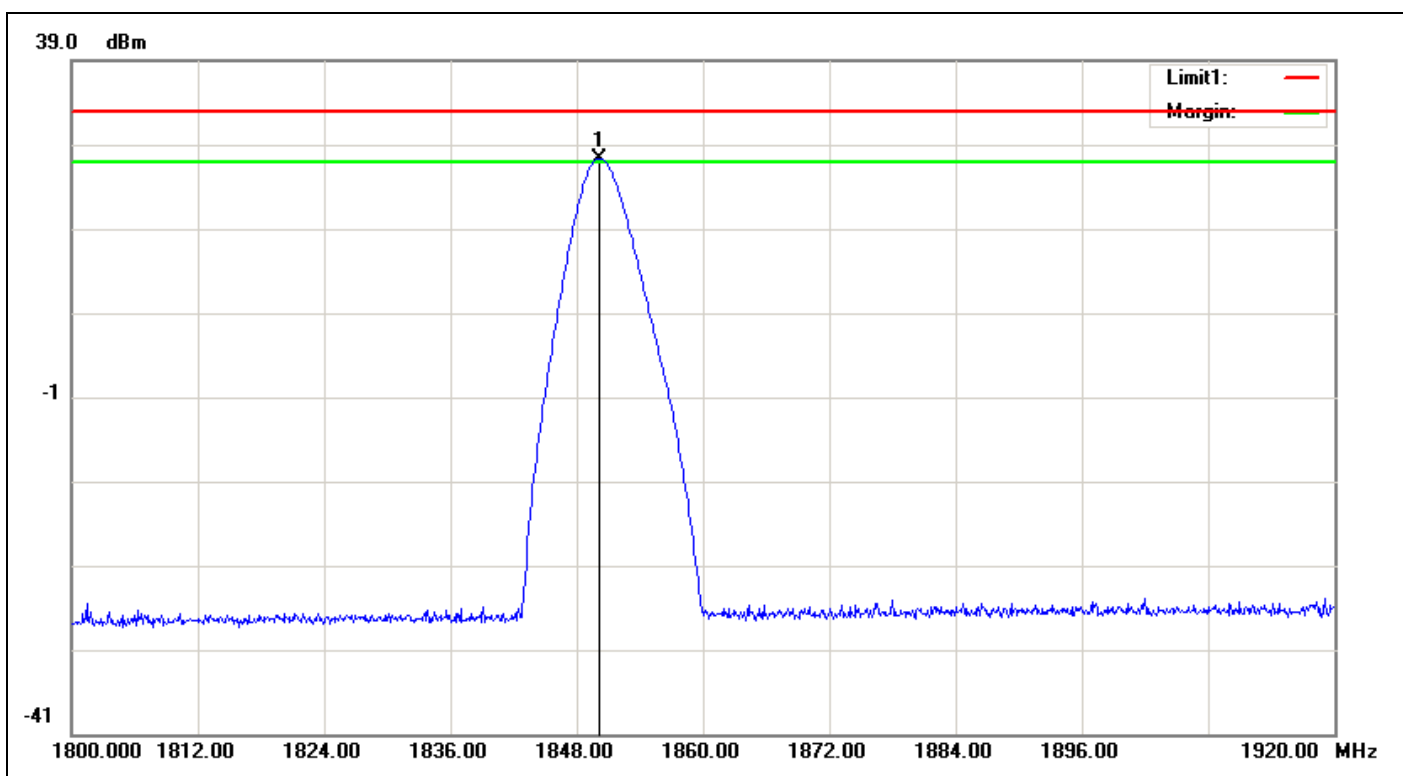


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1850.160	24.12	5.37	5.67	24.42	33.00	-8.58	230	305	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:</b> 2014/8/19	<b>Time:</b> 上午 10:08:45
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-512</b>		

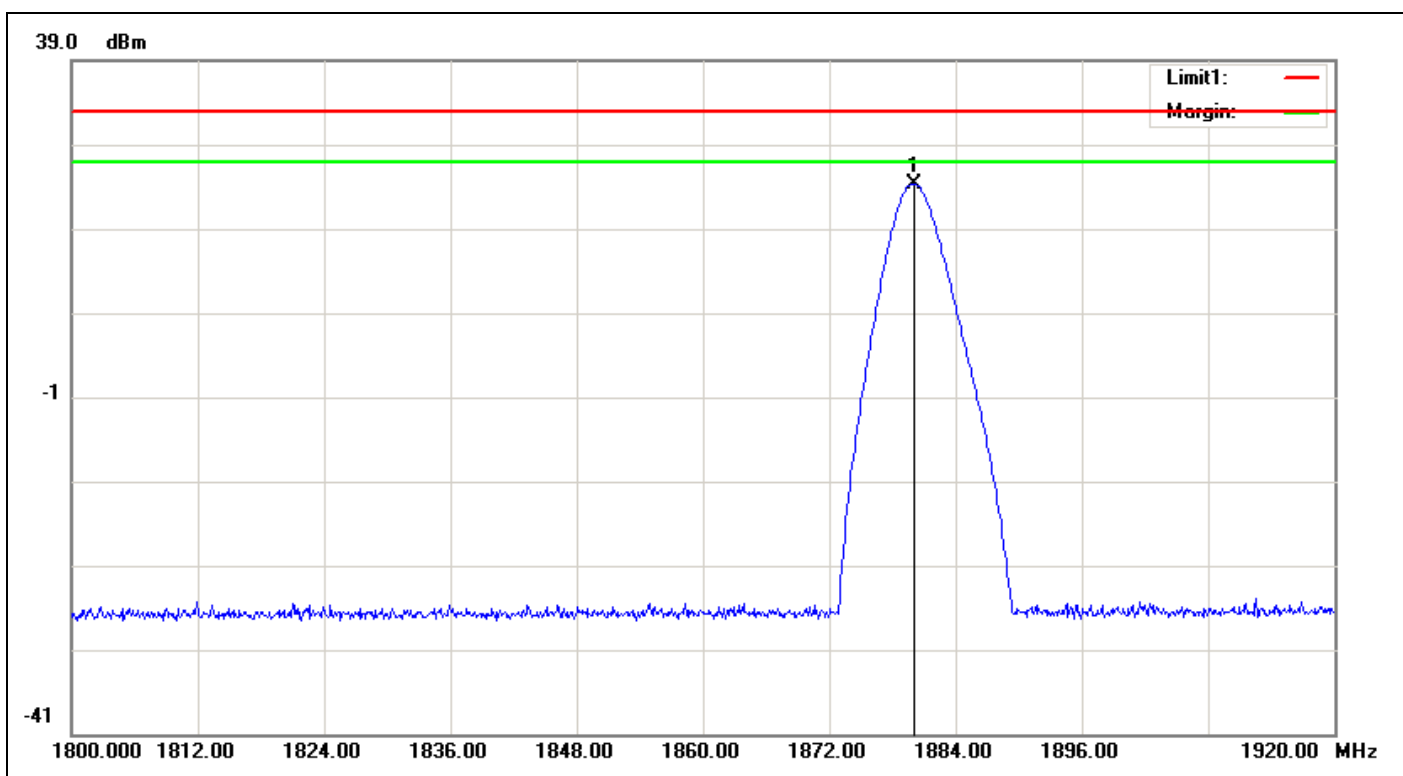


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1850.160	27.05	5.37	5.67	27.35	33.00	-5.65	230	348	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:00:08</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-661</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1880.040	24.14	5.42	5.62	24.34	33.00	-8.66	230	287	peak





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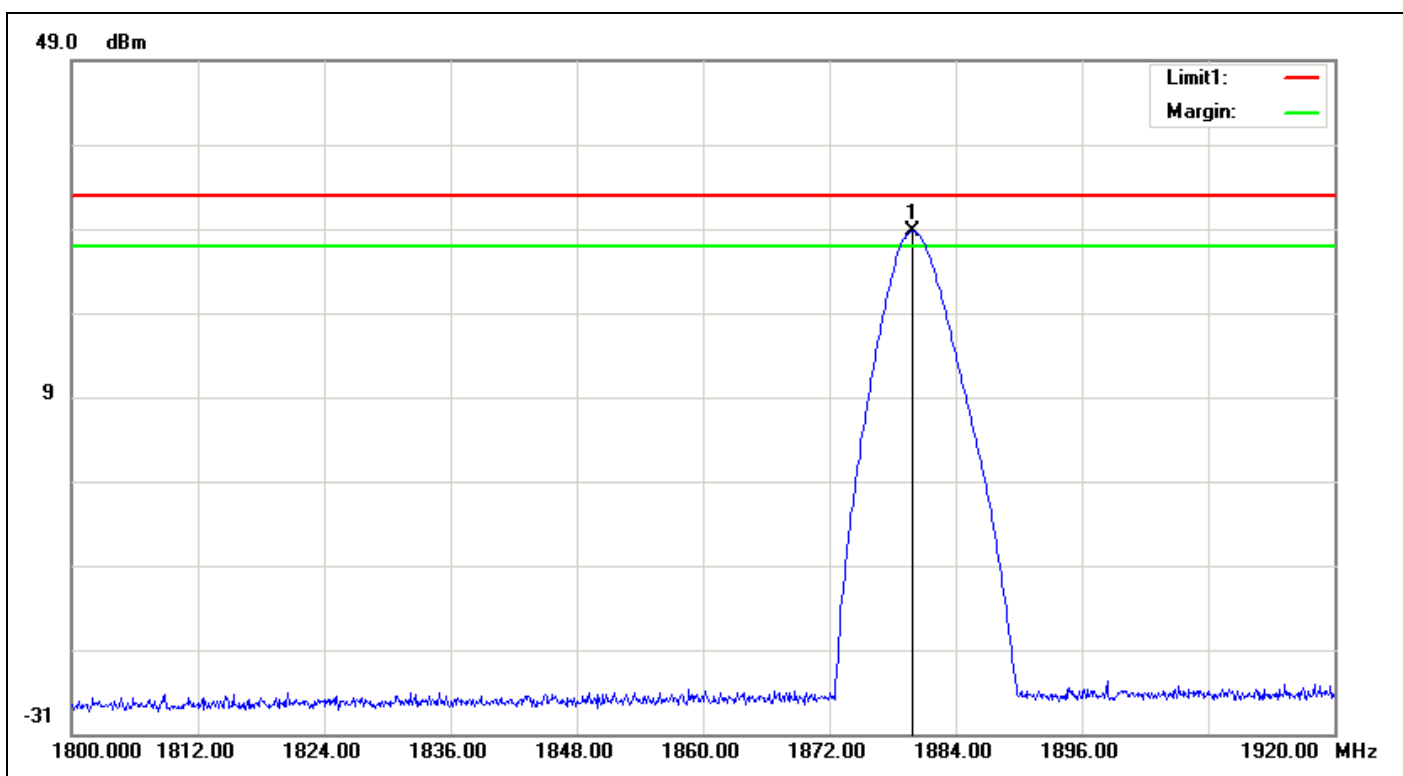
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:55:57
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1879.920	28.44	5.42	5.62	28.64	33.00	-4.36	230	344	peak



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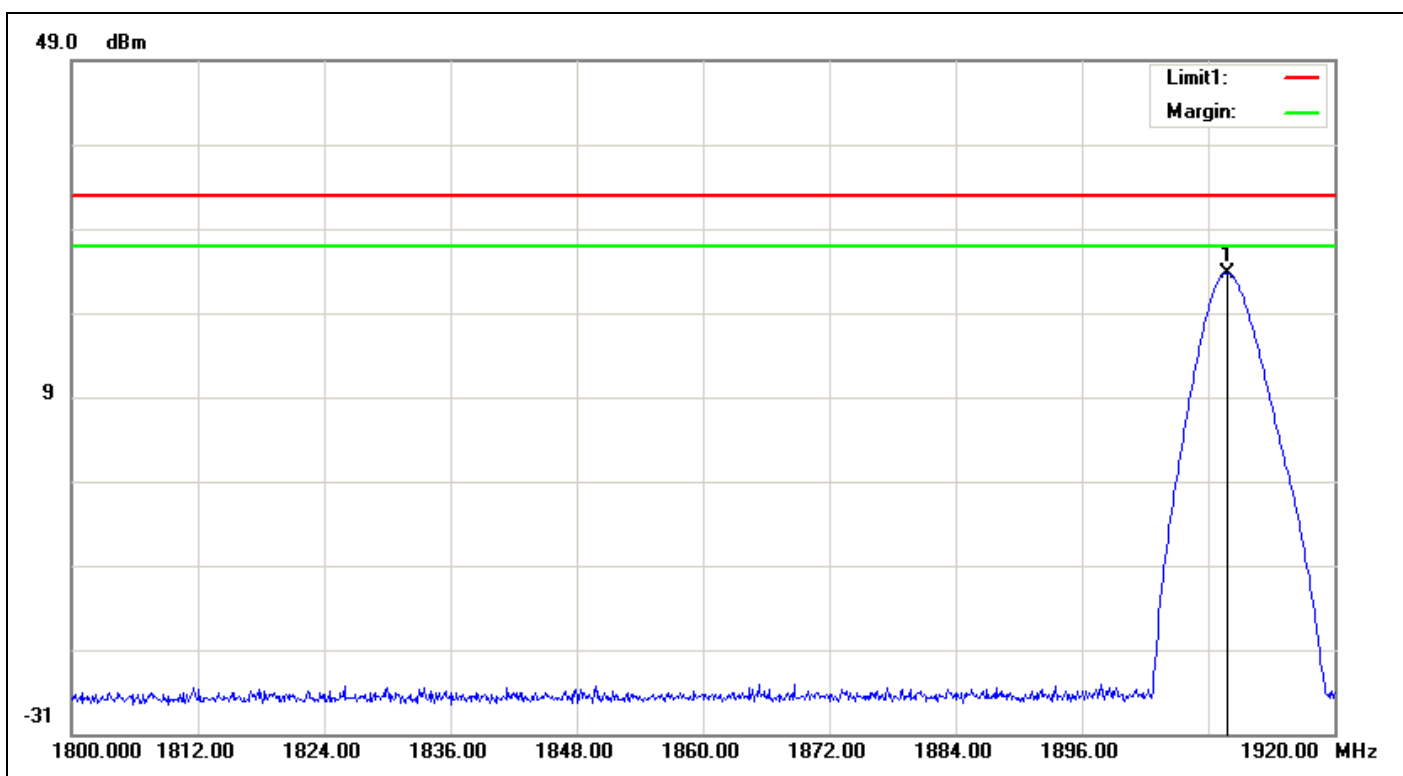
Tel:+886-2-2299-4086

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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:49:39
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1909.800	23.69	5.48	5.56	23.77	33.00	-9.23	230	180	peak



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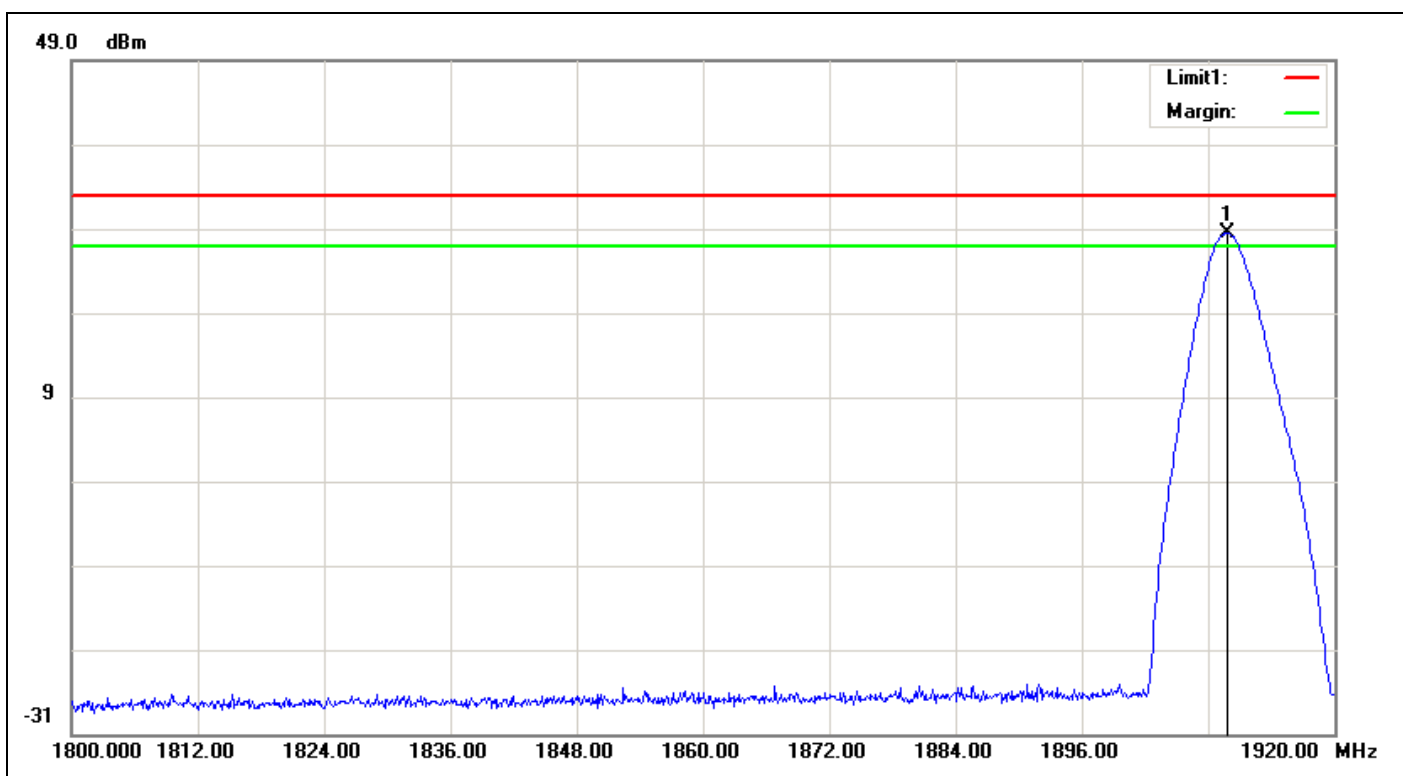
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 09:51:44
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1909.800	28.41	5.48	5.56	28.49	33.00	-4.51	230	348	peak



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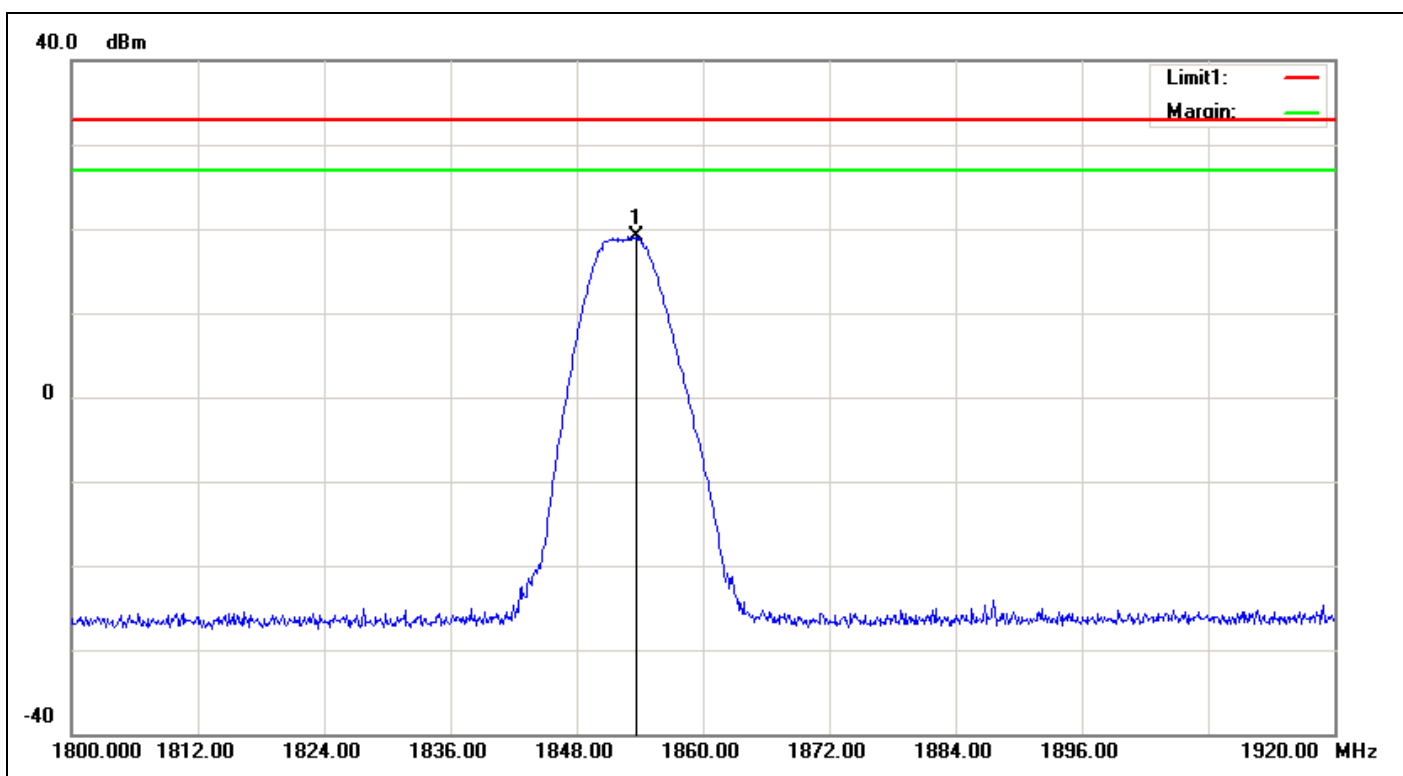
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:12:00
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1853.640	18.76	5.38	5.66	19.04	33.00	-13.96	230	263	peak



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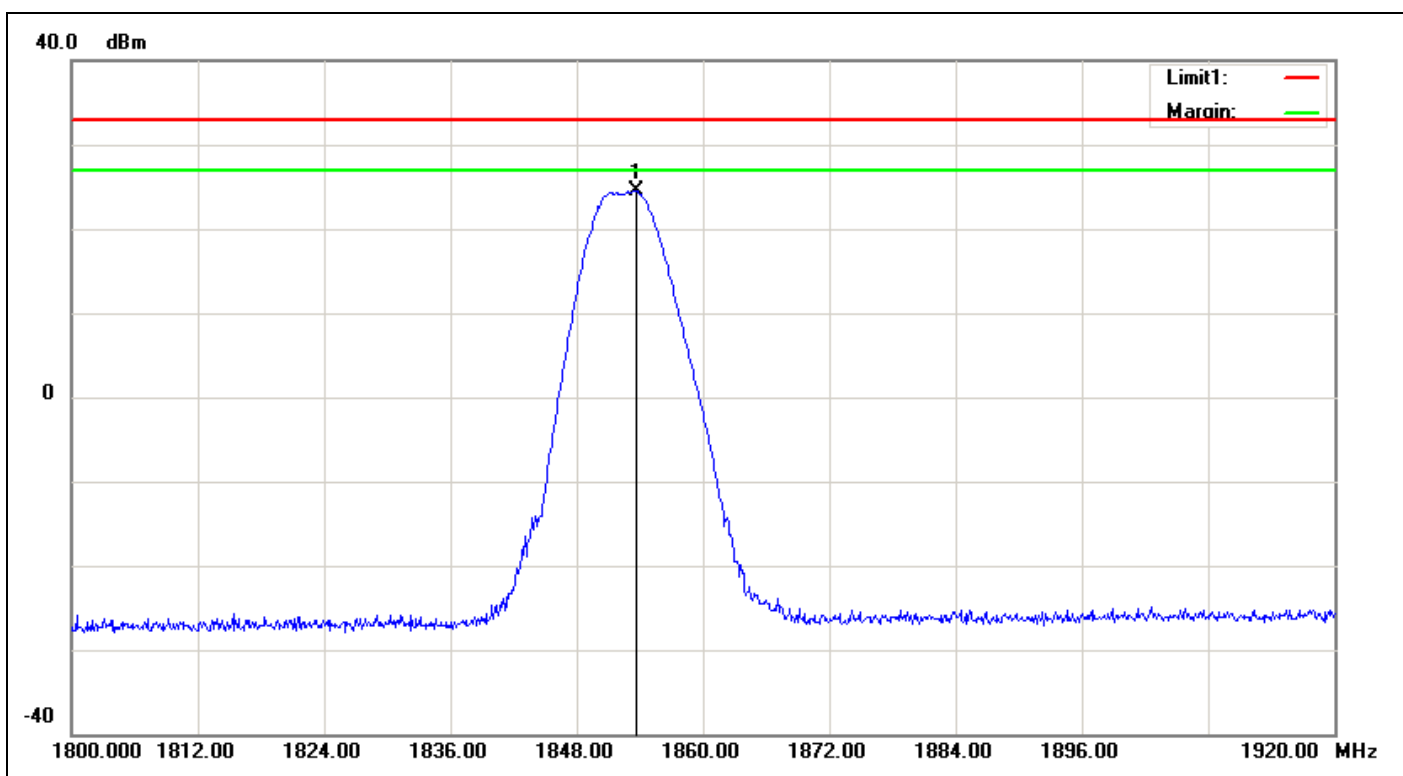
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:14:46
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		

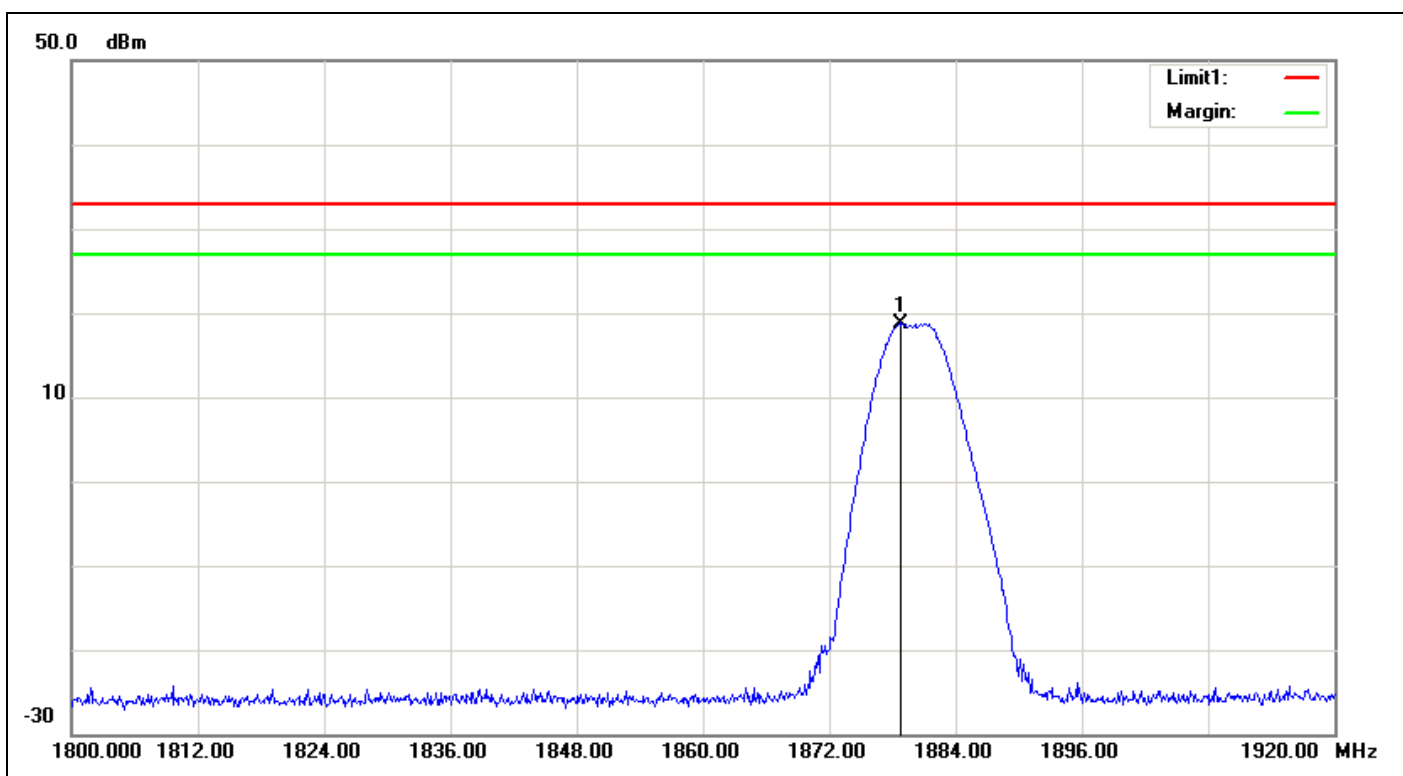


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1853.640	24.21	5.38	5.66	24.49	33.00	-8.51	230	52	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:19:05
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1878.840	18.6	5.42	5.62	18.80	33.00	-14.20	230	256	peak



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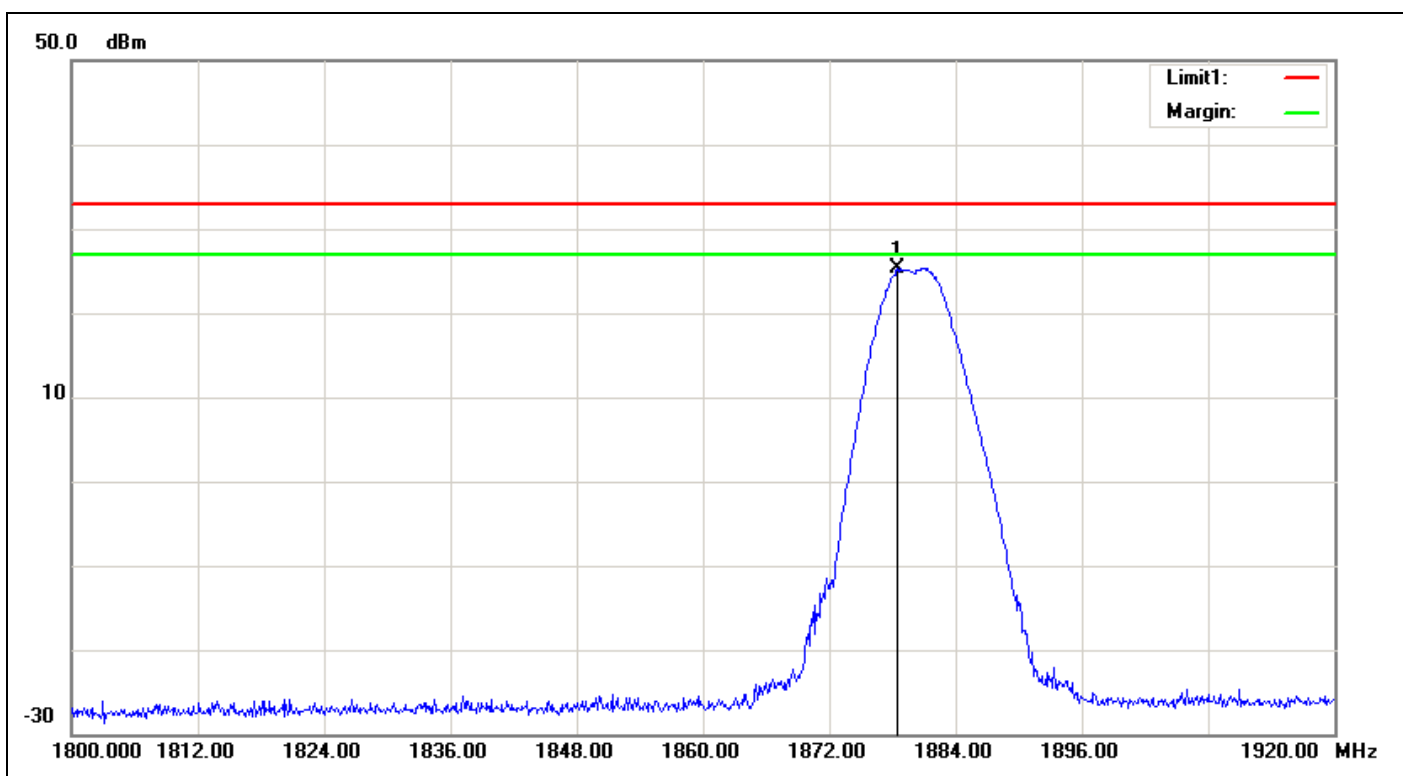
Tel:+886-2-2299-4086

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:17:01
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1878.480	25.18	5.42	5.62	25.38	33.00	-7.62	230	27	peak



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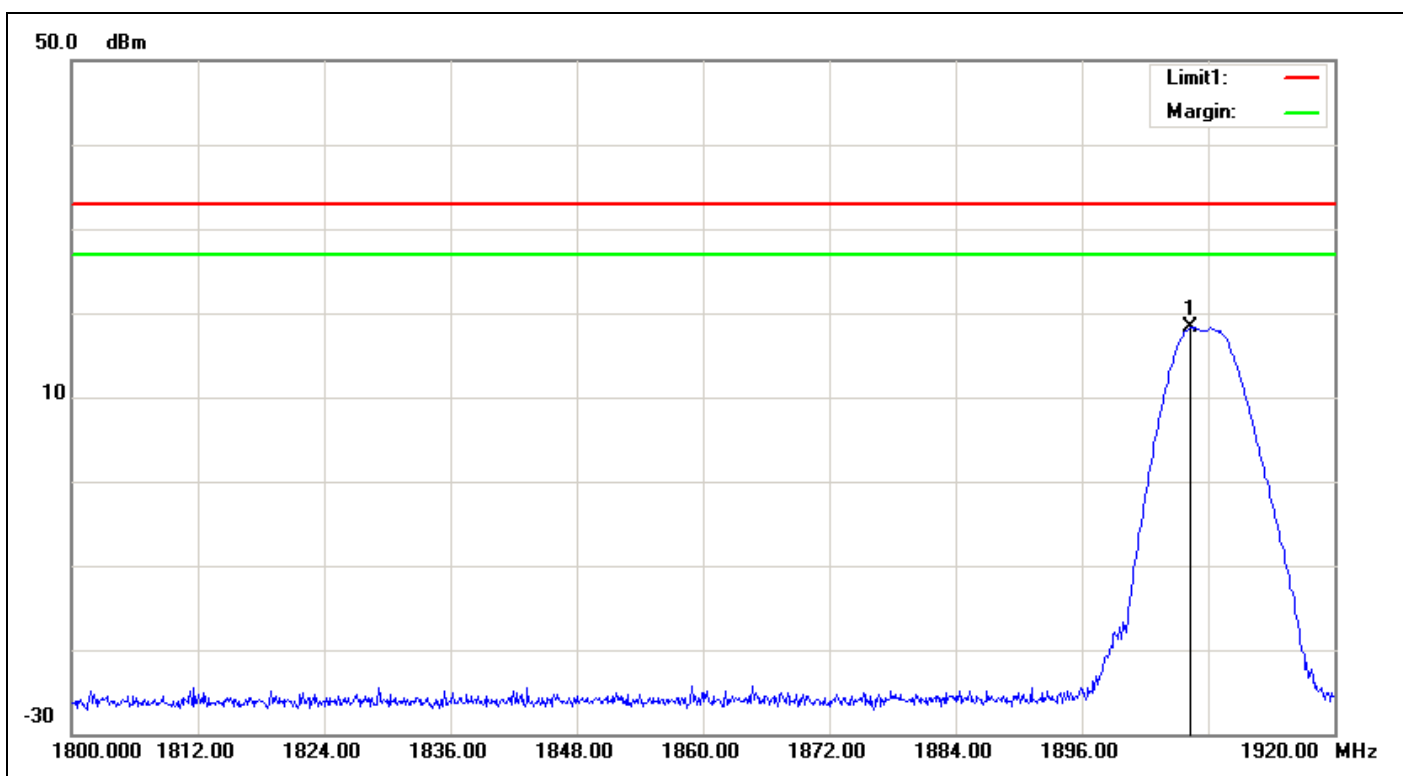
Tel:+886-2-2299-4086

Fax:

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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:21:33
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



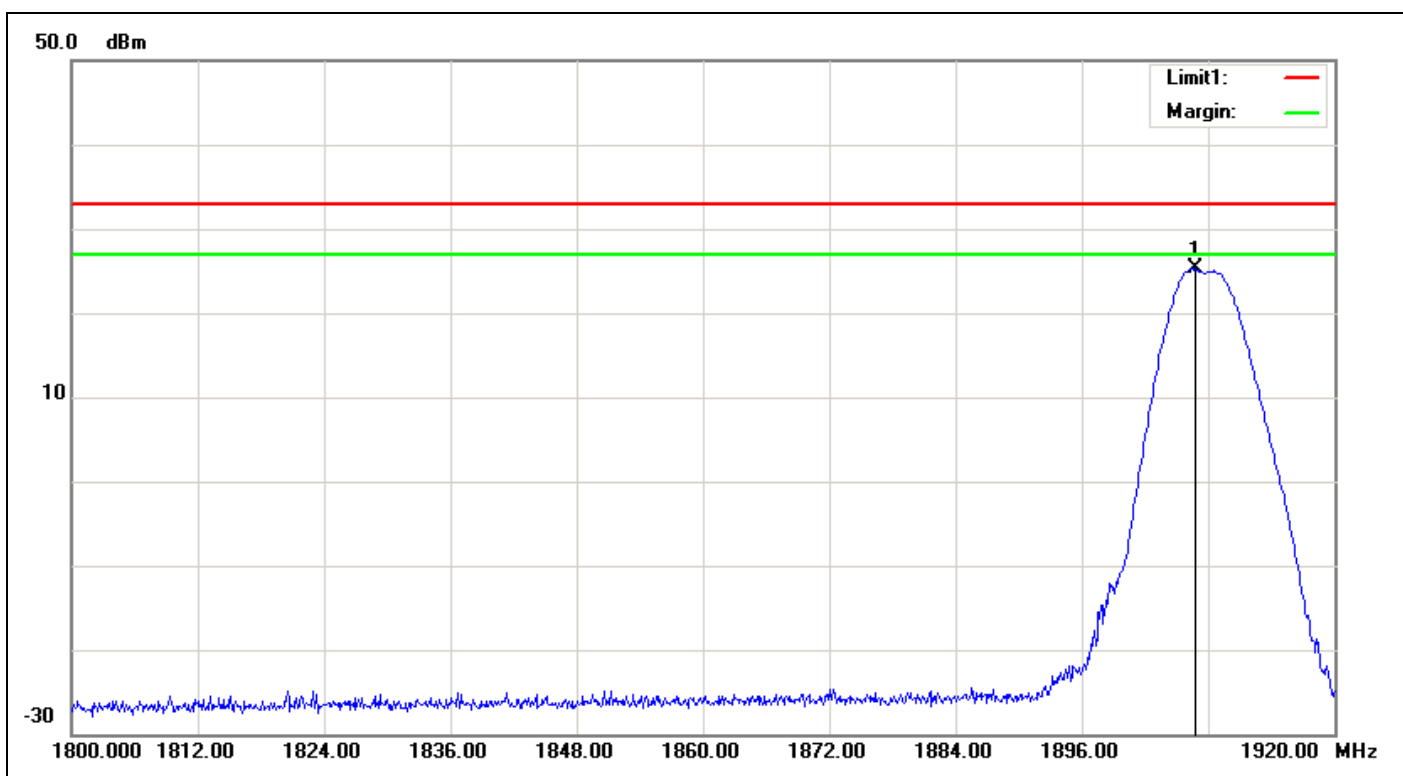
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1906.320	18.26	5.47	5.57	18.36	33.00	-14.64	230	257	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:23:33
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1906.800	25.21	5.47	5.57	25.31	33.00	-7.69	230	33	peak



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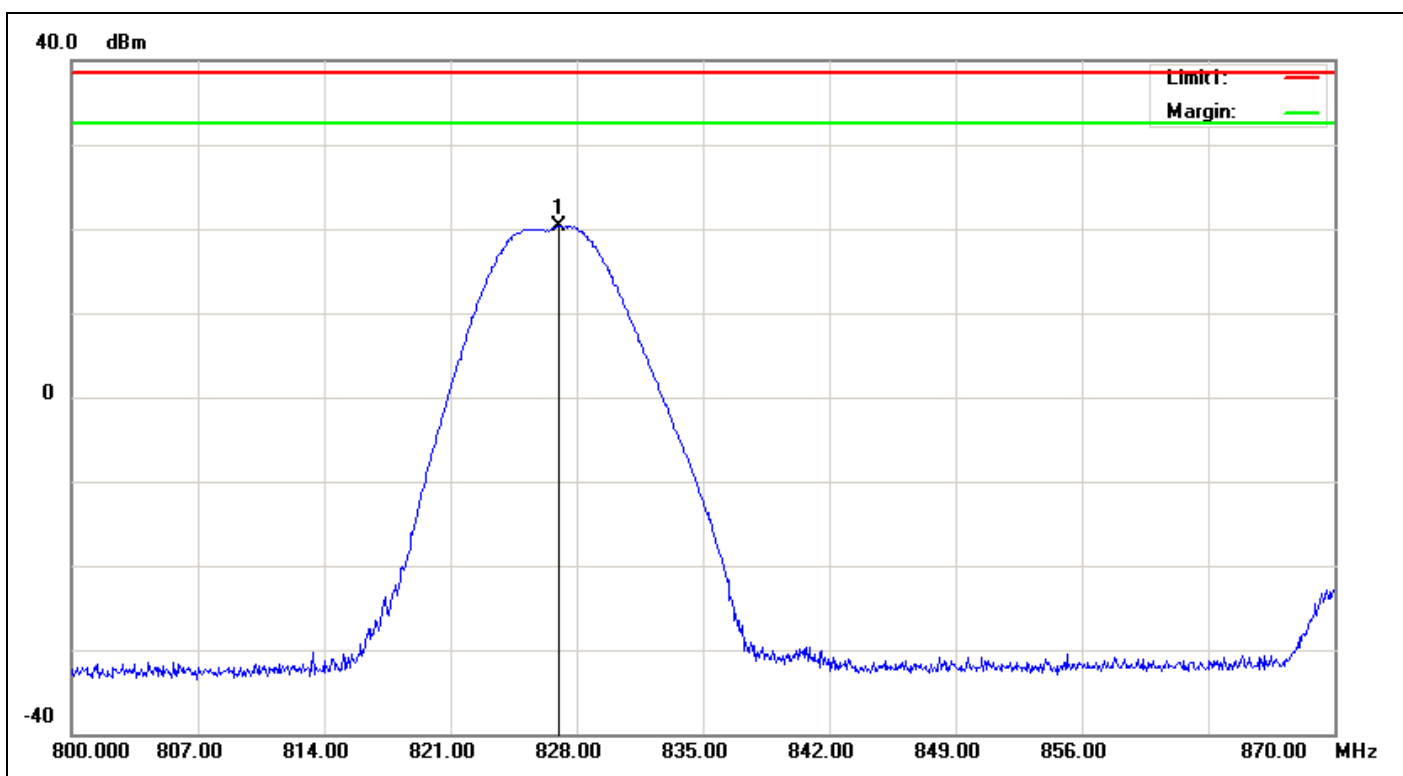
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 01:29:05</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4132</b>		

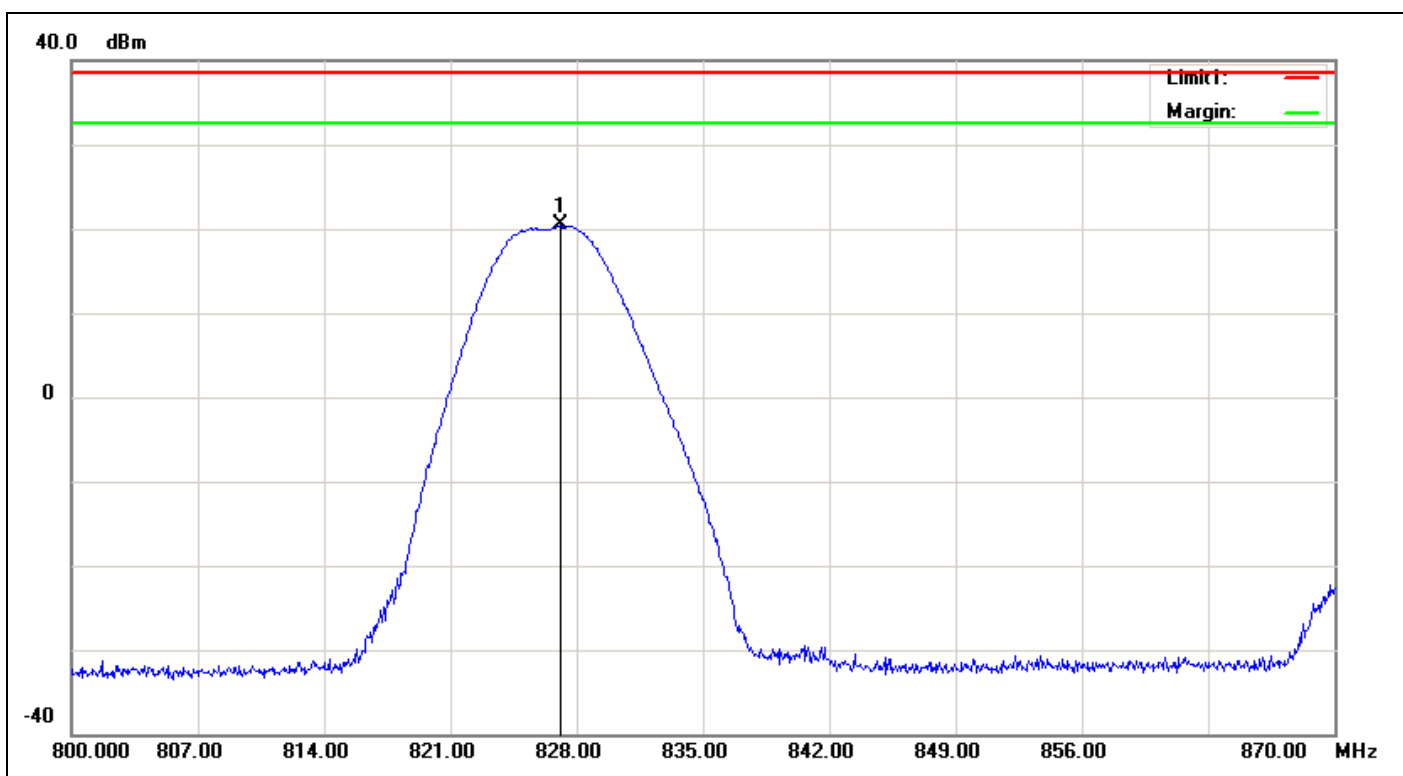


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	827.0200	17.51	3.39	6.27	20.39	38.45	-18.06	230	43	peak



### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:26:08
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		

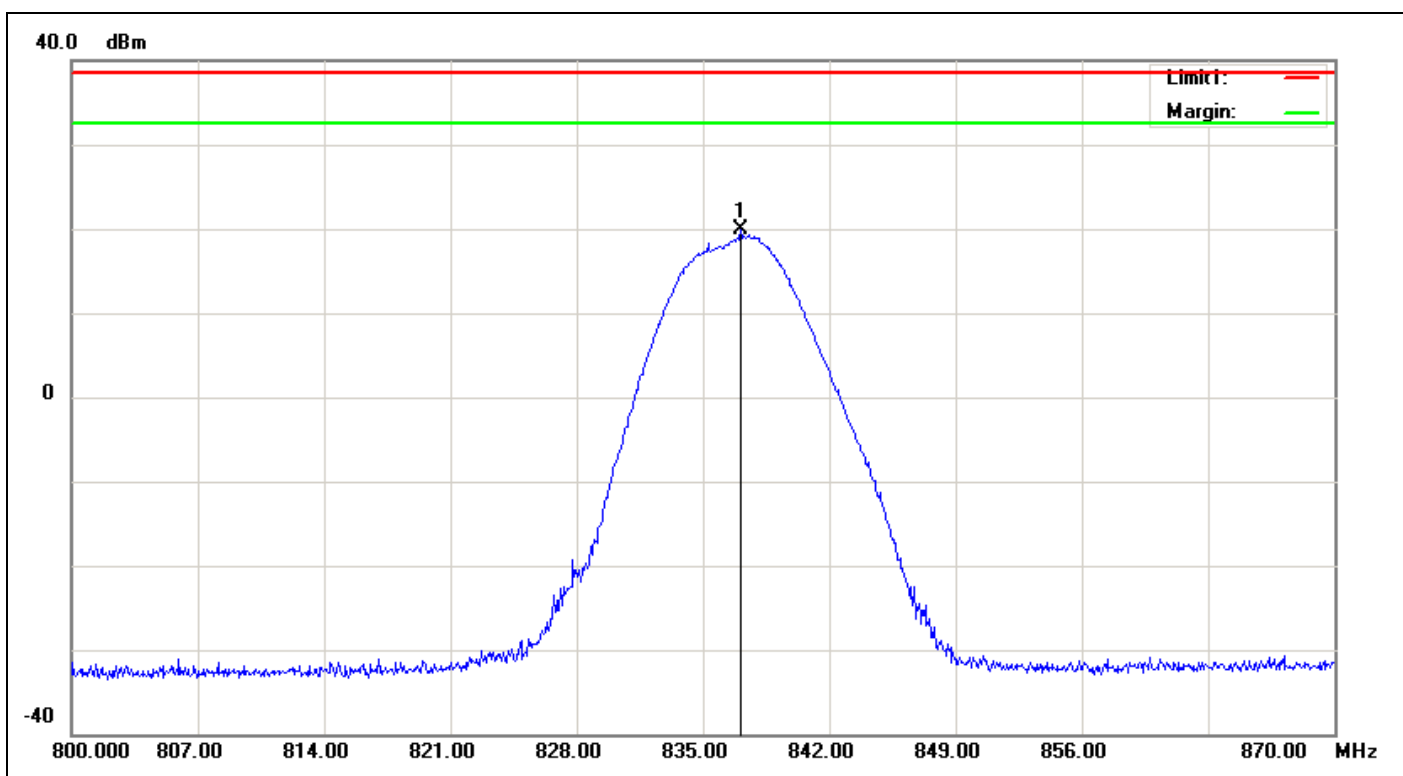


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	827.0900	17.55	3.39	6.27	20.43	38.45	-18.02	230	44	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:33:29
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		

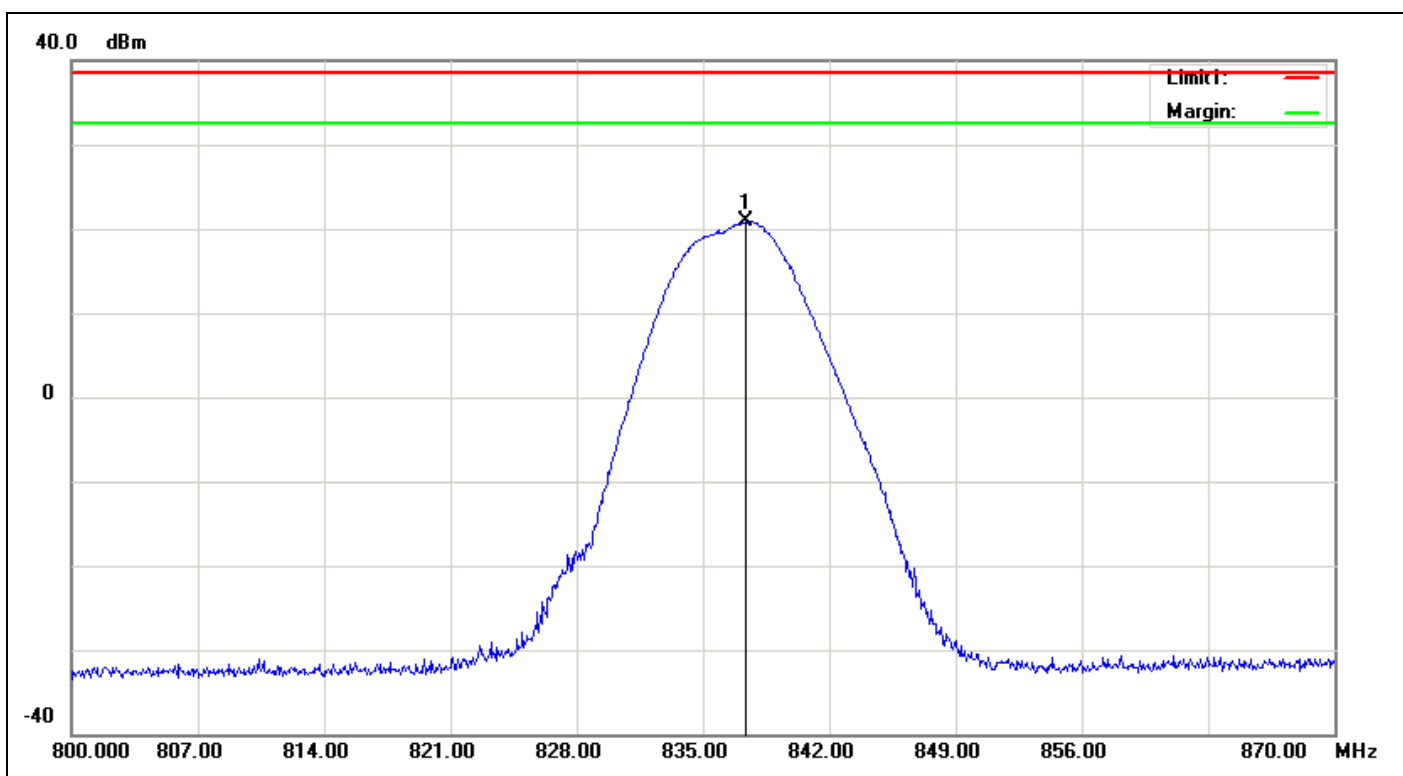


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	837.1000	16.95	3.4	6.37	19.92	38.45	-18.53	230	186	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:31:26
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	837.3800	17.87	3.4	6.37	20.84	38.45	-17.61	230	40	peak



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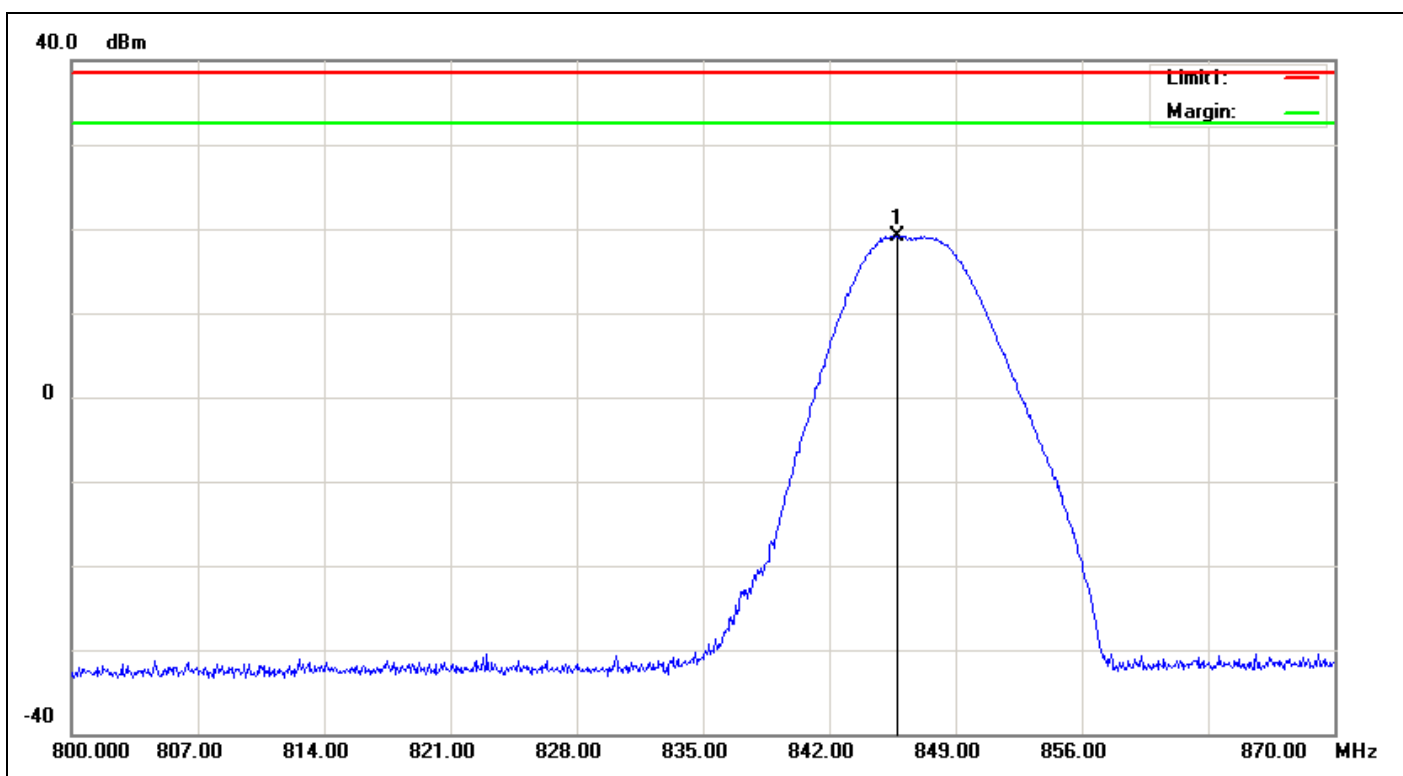
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Fax:

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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:35:41
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

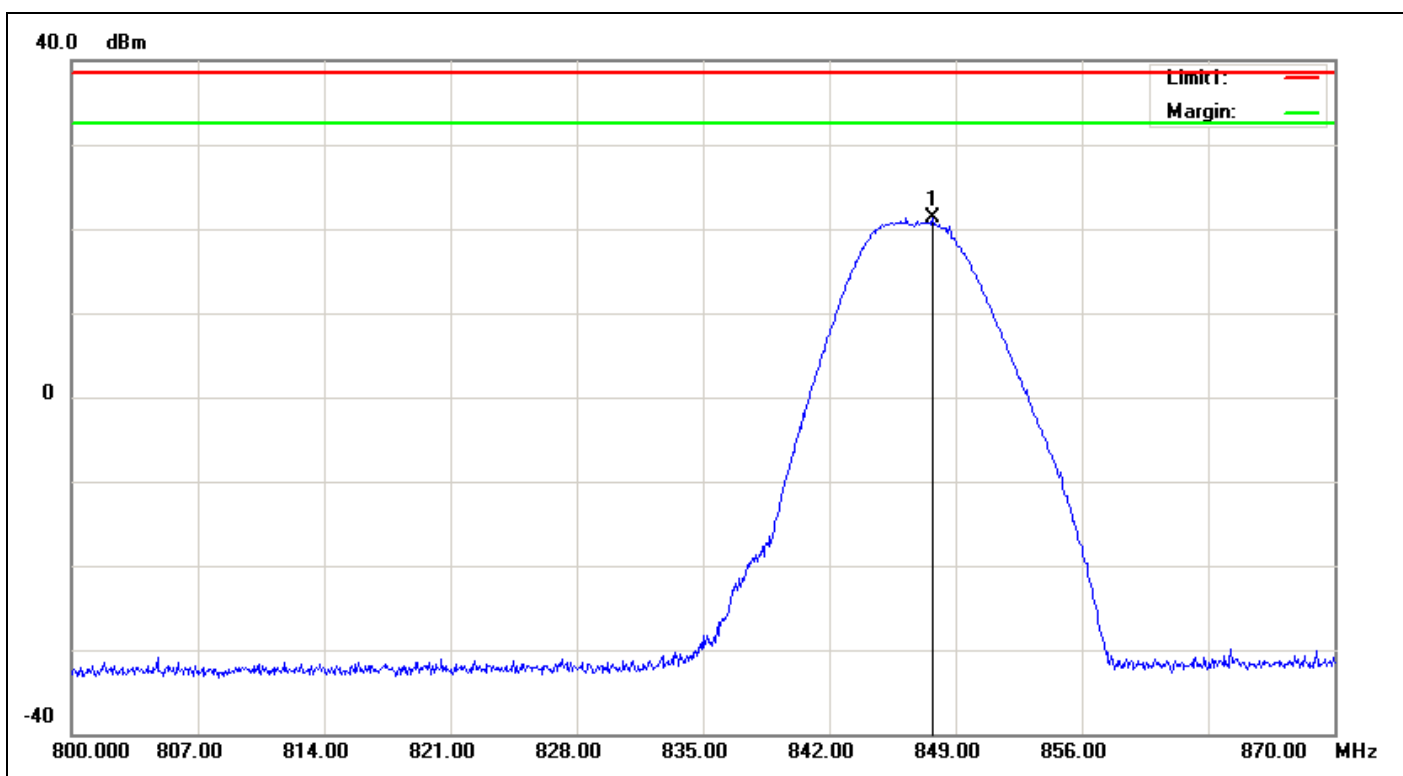


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	845.7800	16.15	3.4	6.4	19.15	38.45	-19.30	230	182	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundamental	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:37:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	847.7400	18.37	3.4	6.4	21.37	38.45	-17.08	230	59	peak



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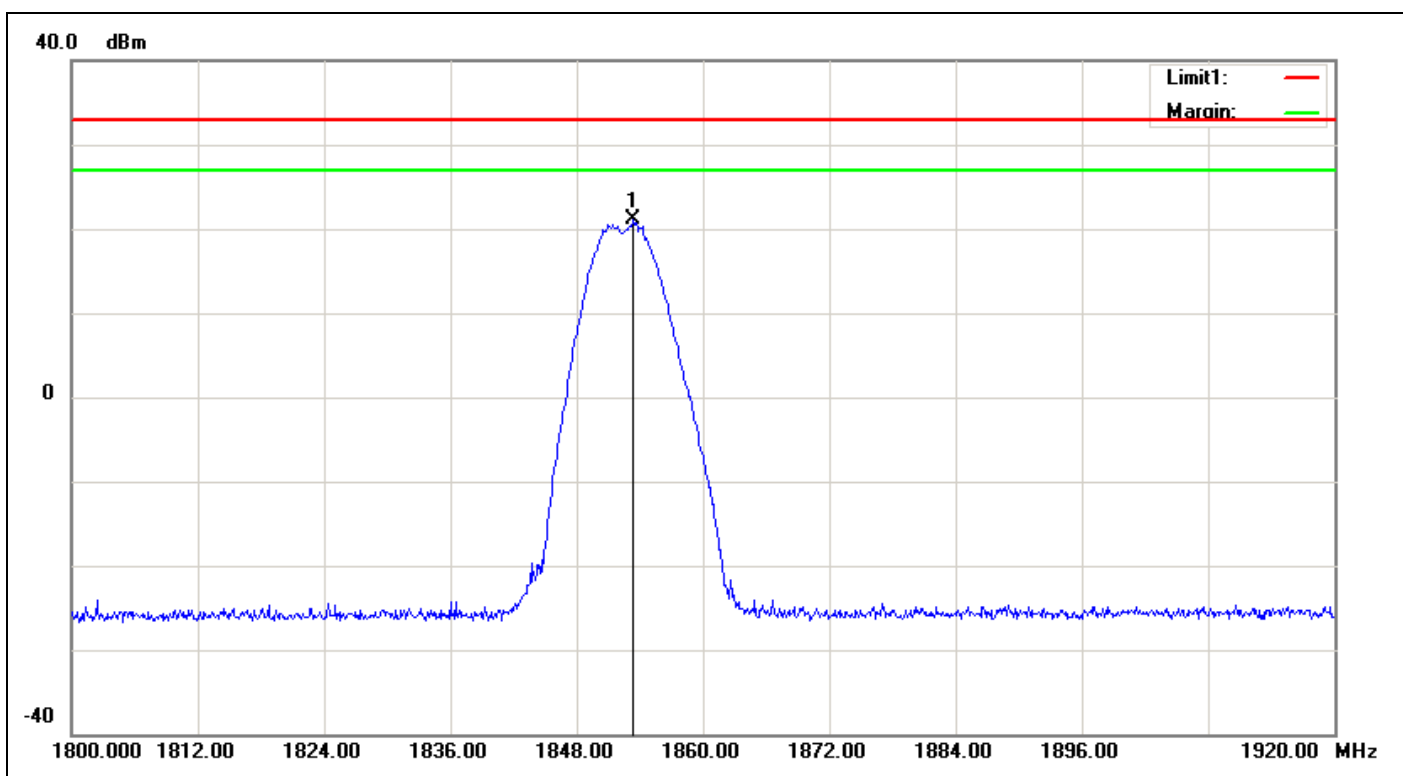
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 03:25:17</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9262</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1853.400	20.8	5.38	5.66	21.08	33.00	-11.92	230	209	peak





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五股實驗室 Wugu LAB

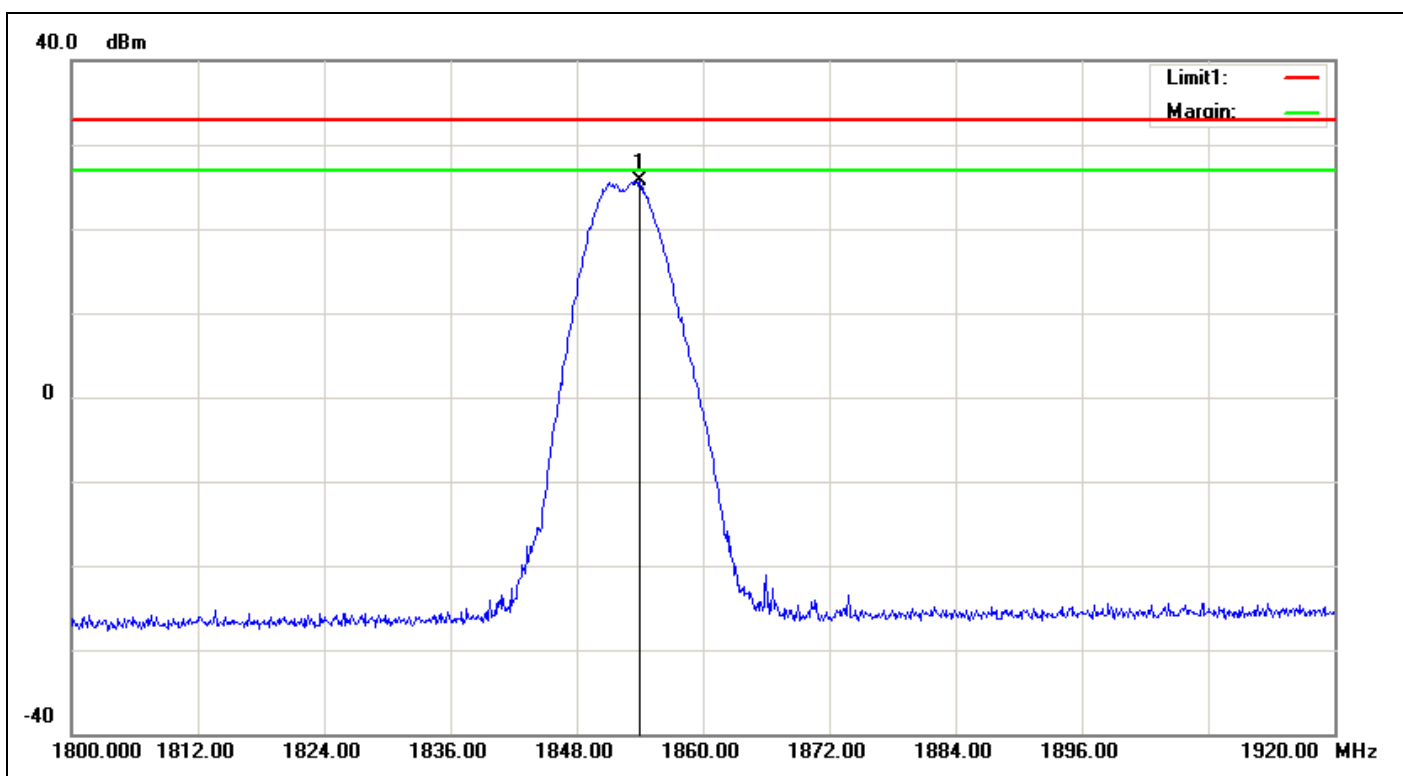
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:27:26
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1854.000	25.47	5.38	5.66	25.75	33.00	-7.25	230	50	peak



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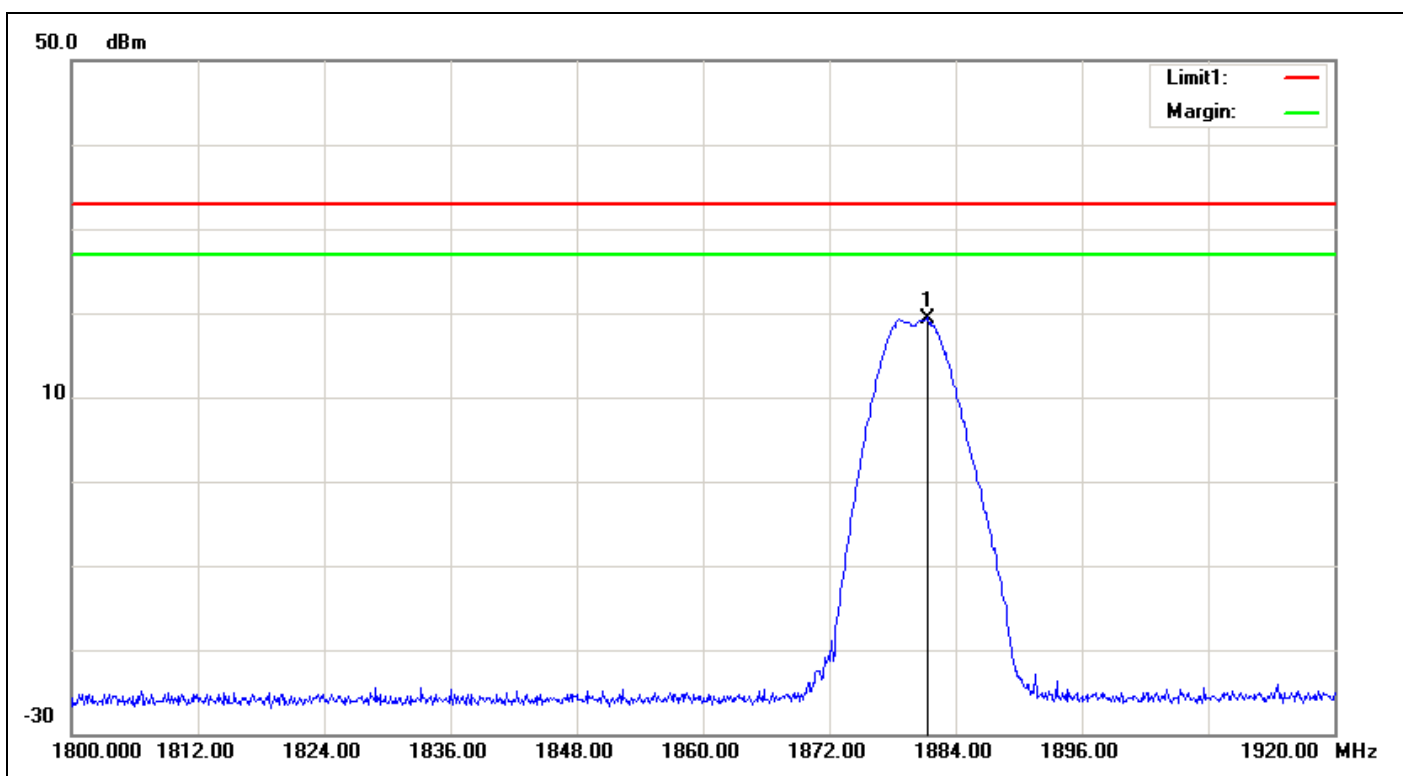
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:31:59
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency	S.G.	Cable	Ant.Gain	Result	Limit	Margin	Theta	Azimuth	Remark
	(MHz)	(dBm)	loss(dB)	(dBi)	(dBm)	(dBm)	dB	( ° )	( ° )	
1	1881.360	19.21	5.42	5.61	19.40	33.00	-13.60	230	124	peak



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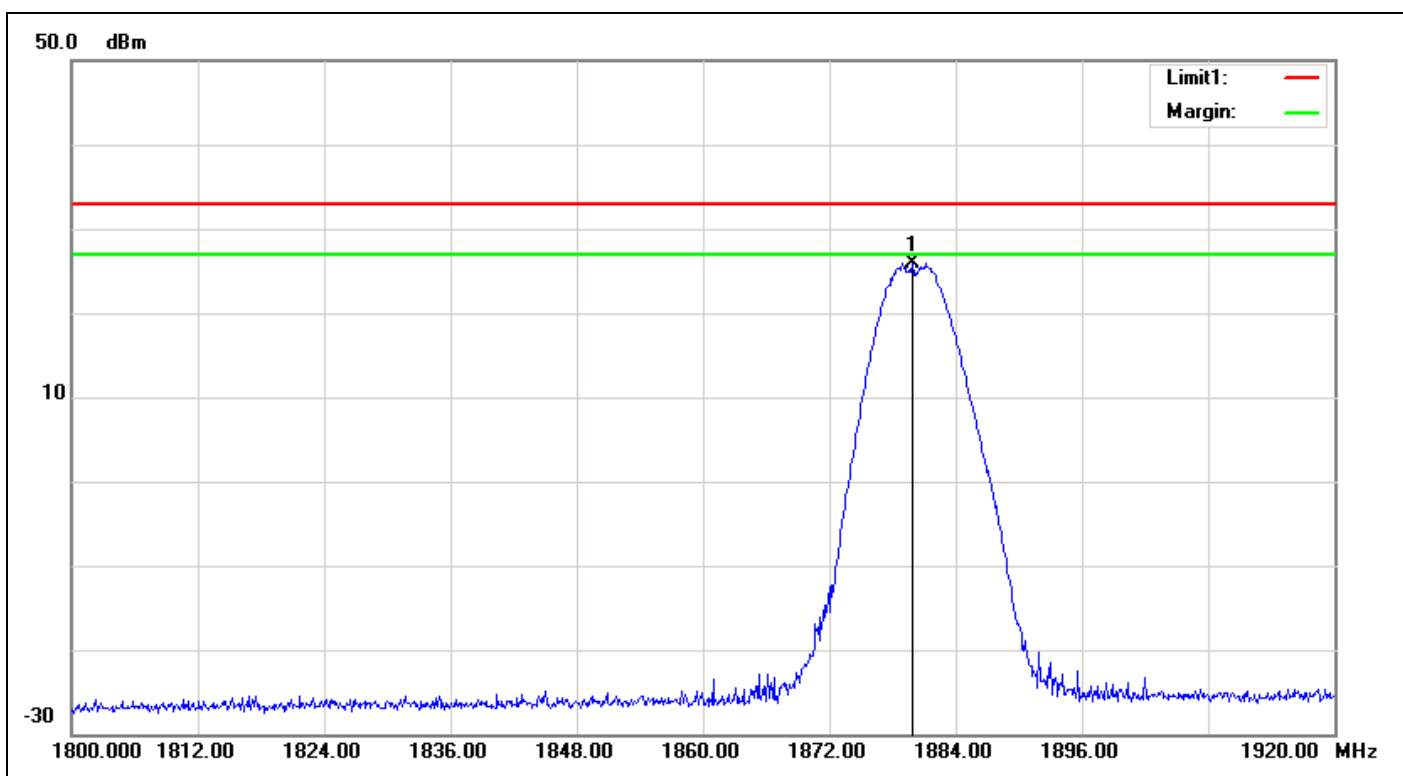
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 03:29:52</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9400</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1879.920	25.63	5.42	5.62	25.83	33.00	-7.17	230	38	peak



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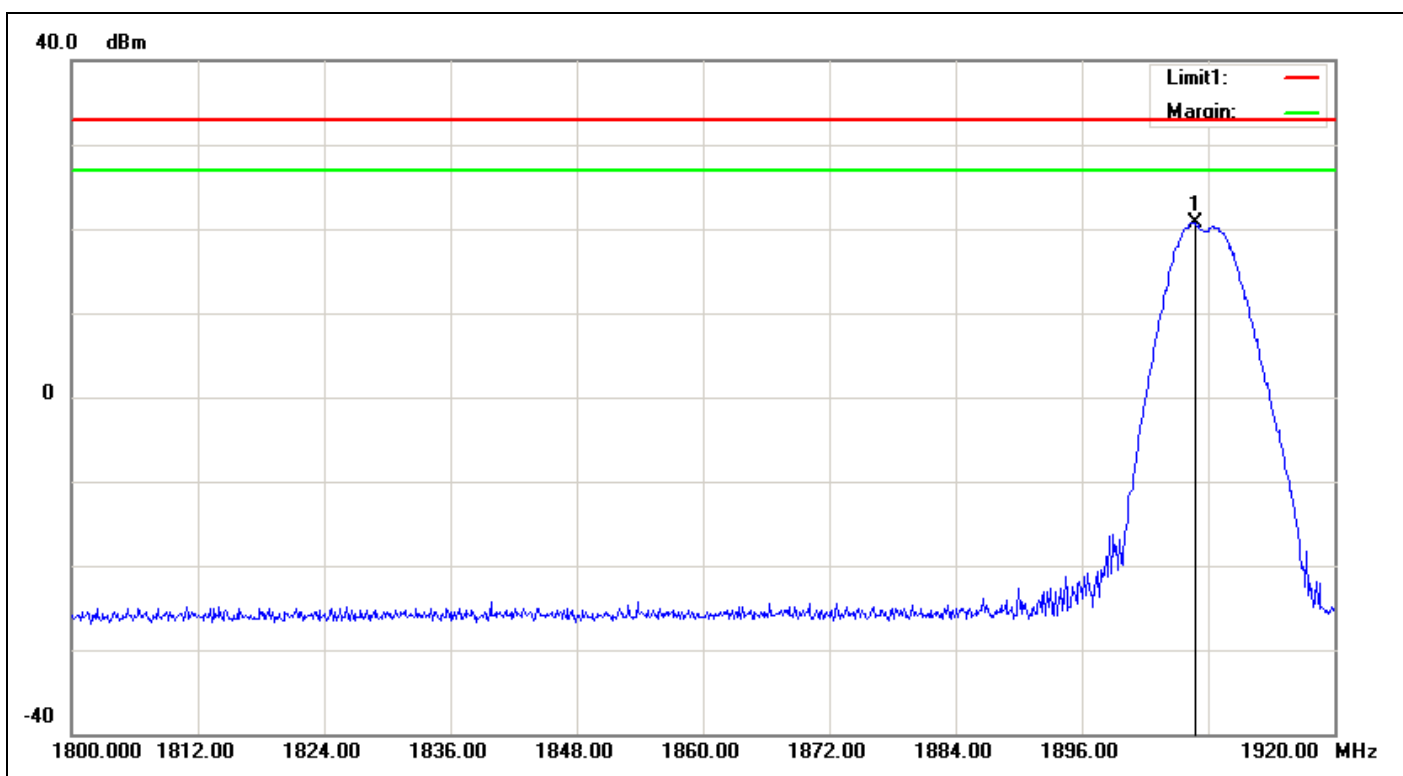
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:34:25
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		

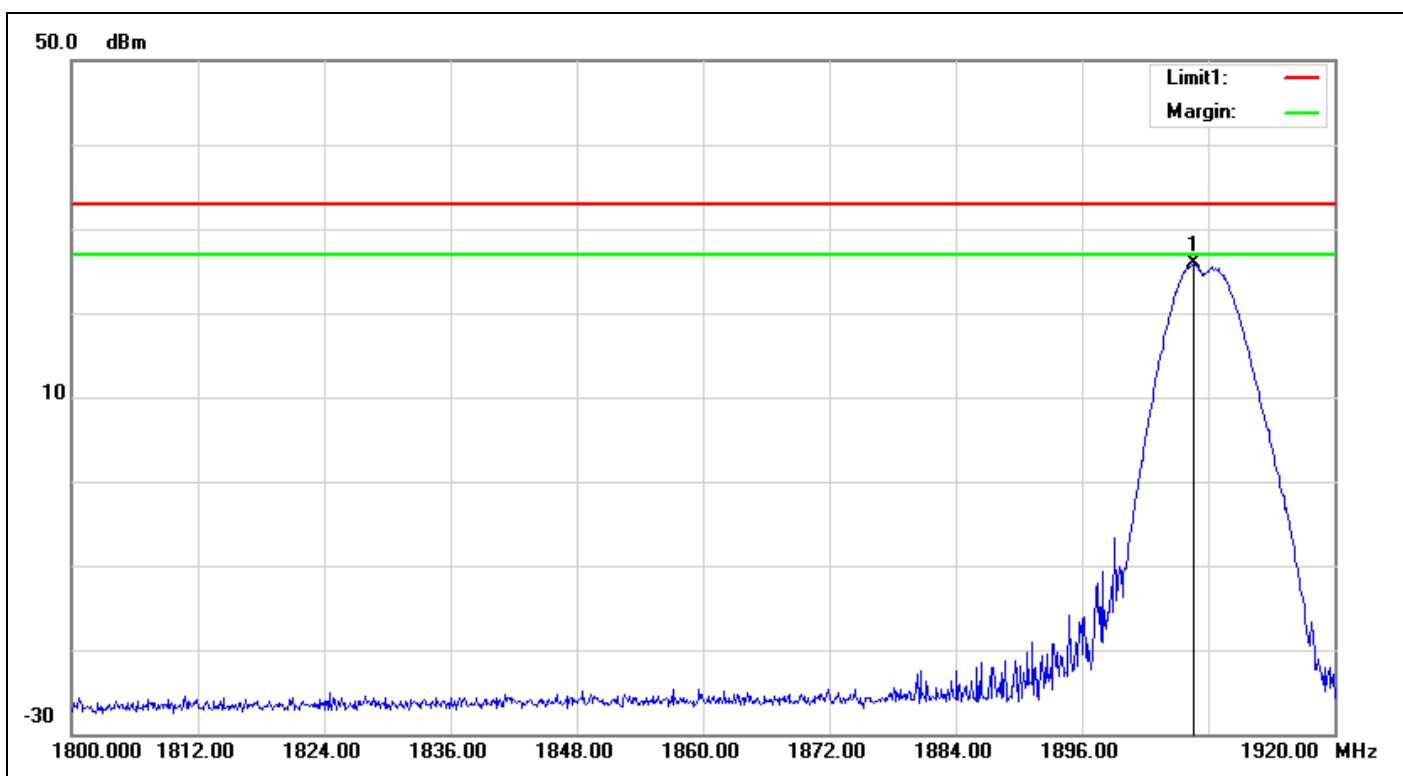


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1906.800	20.62	5.47	5.57	20.72	33.00	-12.28	230	124	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:39:04
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		

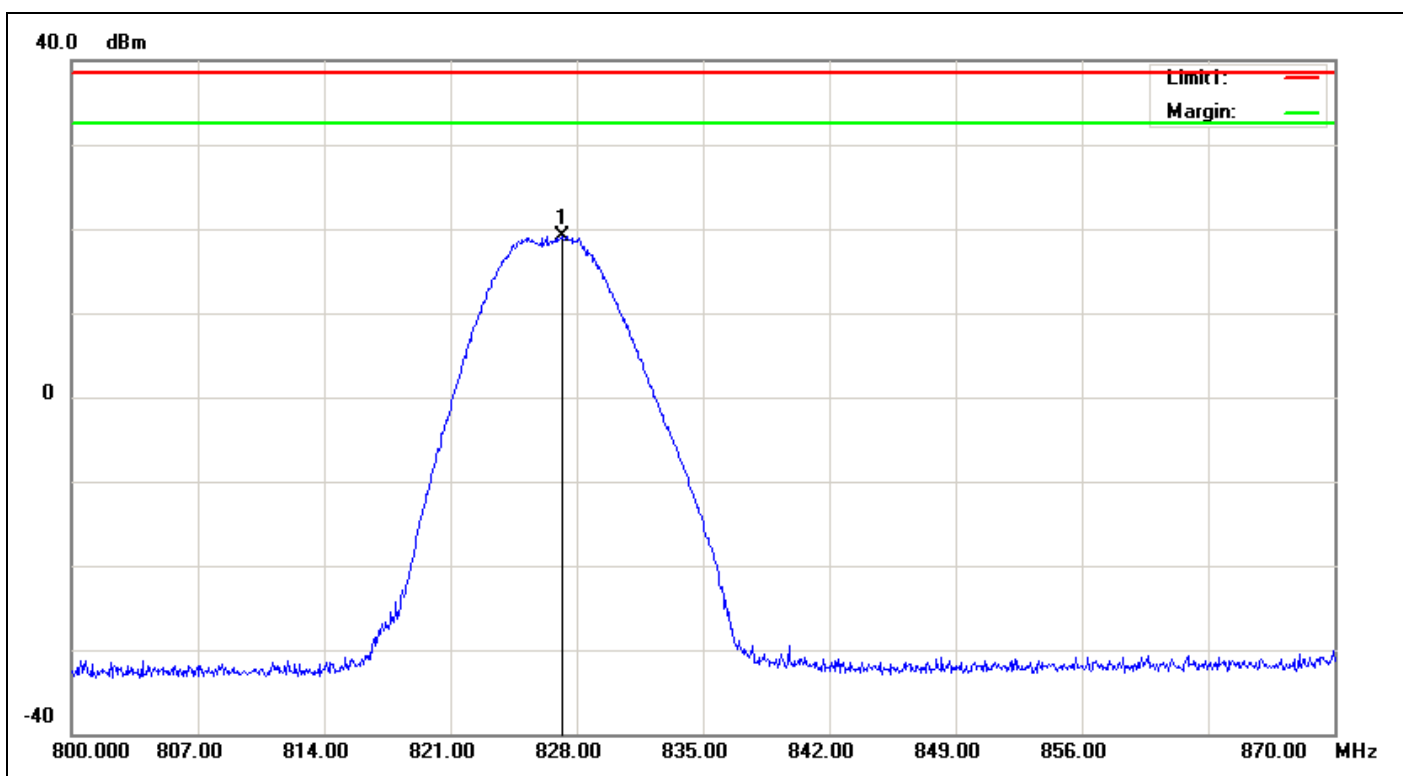


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1906.680	25.73	5.47	5.57	25.83	33.00	-7.17	230	61	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 03:53:34</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4132</b>		

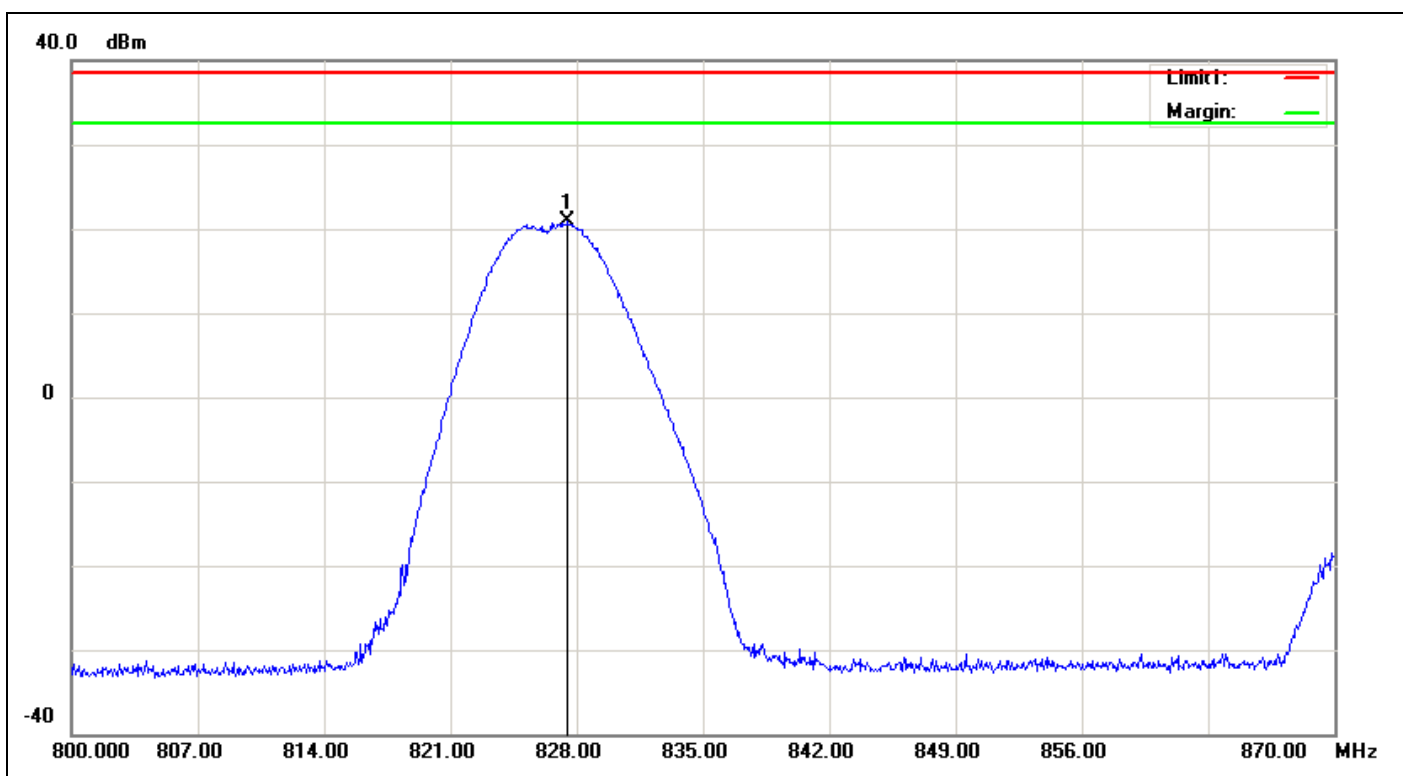


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	827.1600	16.24	3.39	6.27	19.12	38.45	-19.33	230	190	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:51:20
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		

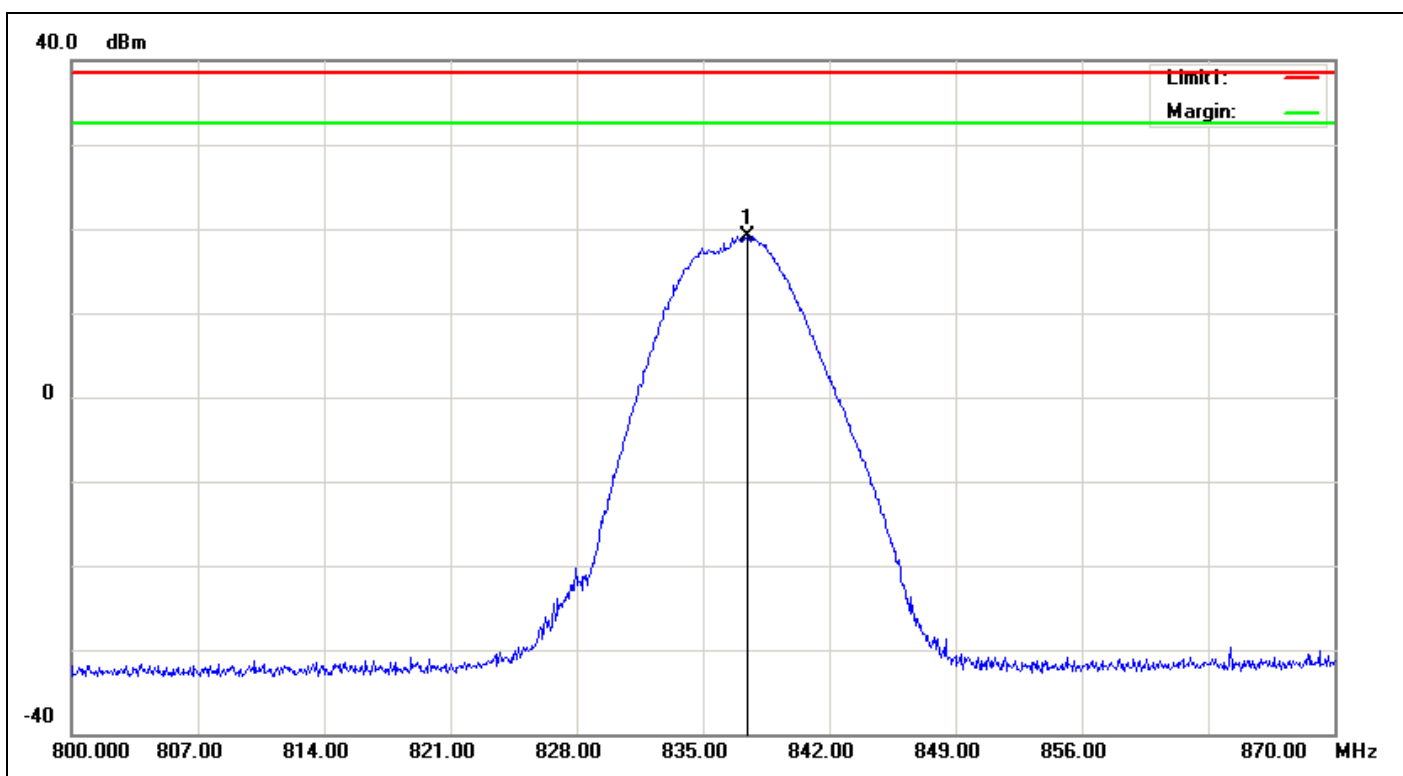


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	827.5100	17.99	3.39	6.27	20.87	38.45	-17.58	230	50	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:46:57
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	837.4500	16.22	3.4	6.37	19.19	38.45	-19.26	230	189	peak





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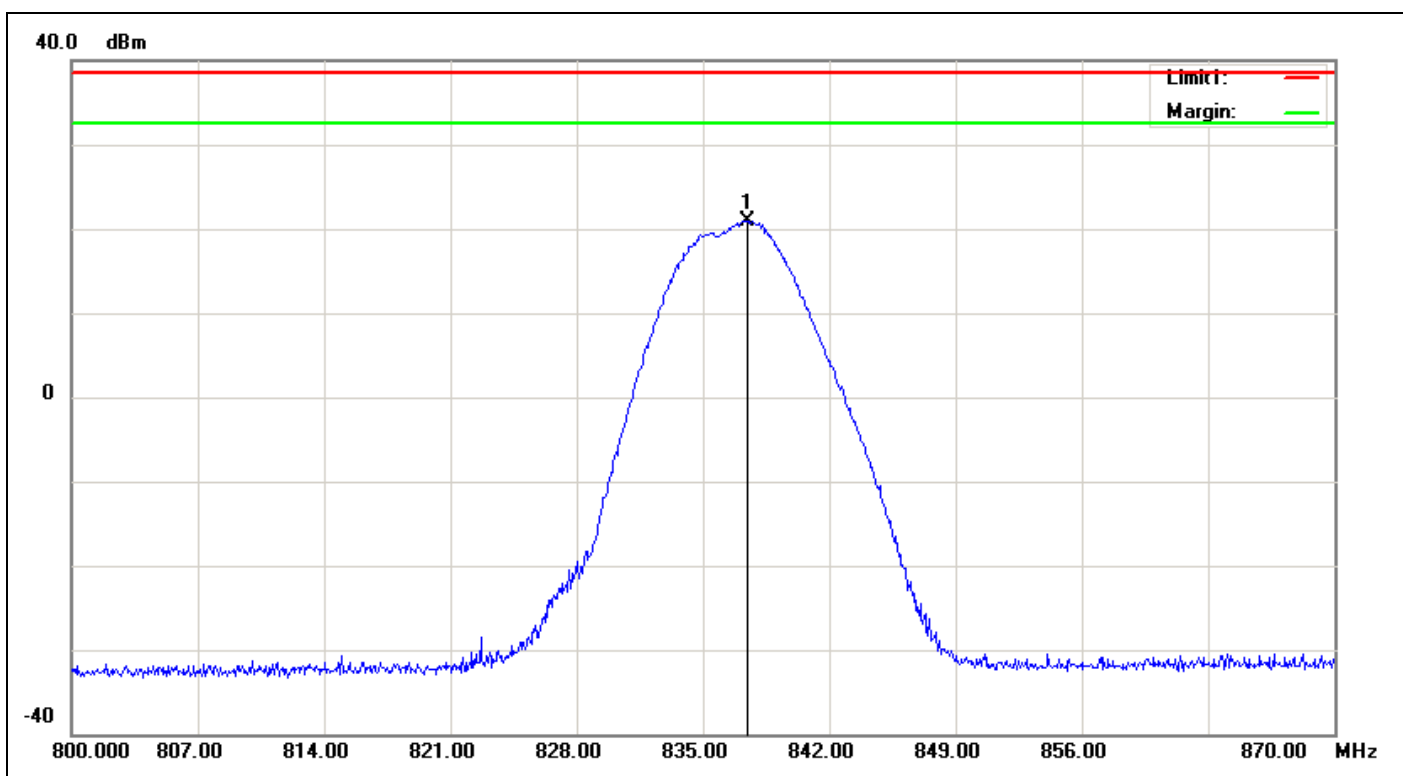
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:48:58
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	837.4500	17.97	3.4	6.37	20.94	38.45	-17.51	230	53	peak



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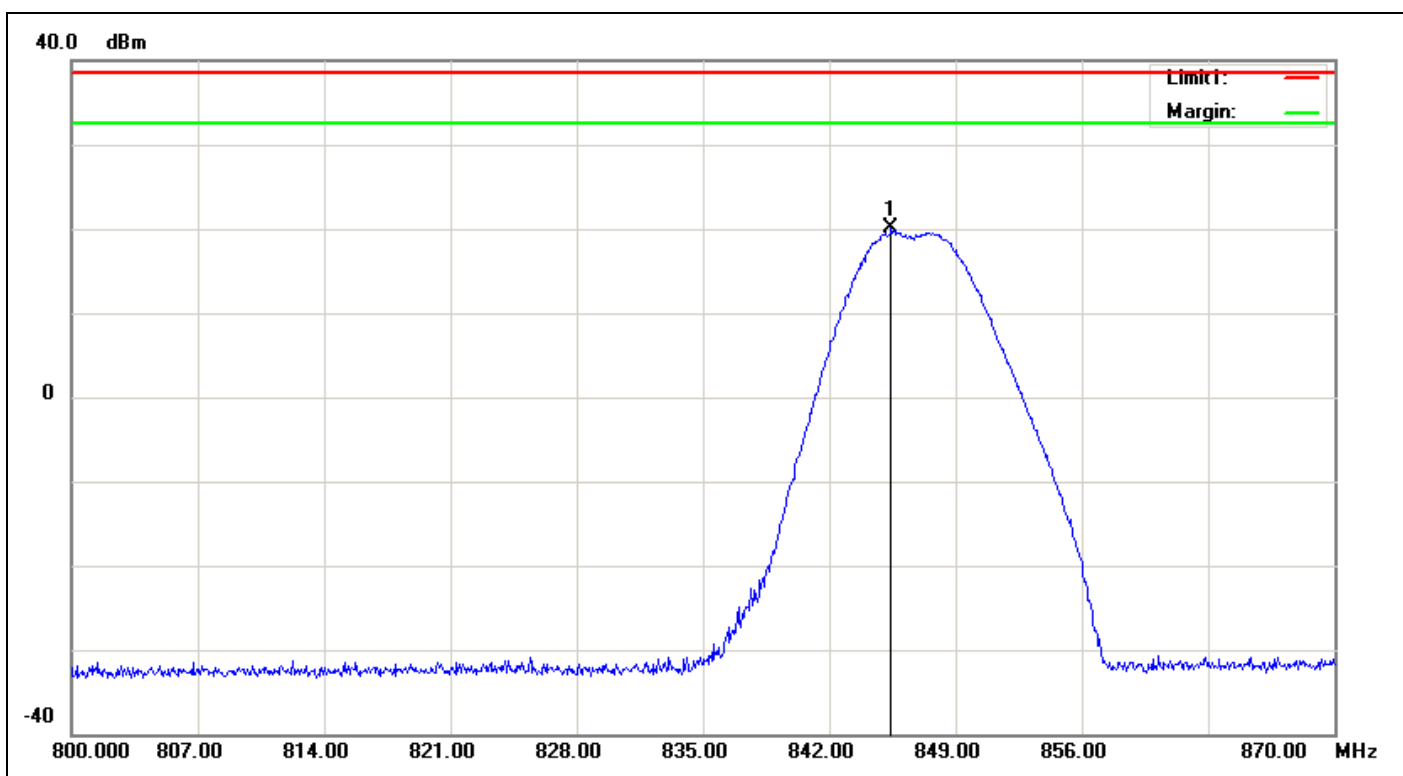
Tel:+886-2-2299-4086

Fax:

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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundamental	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:43:44
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

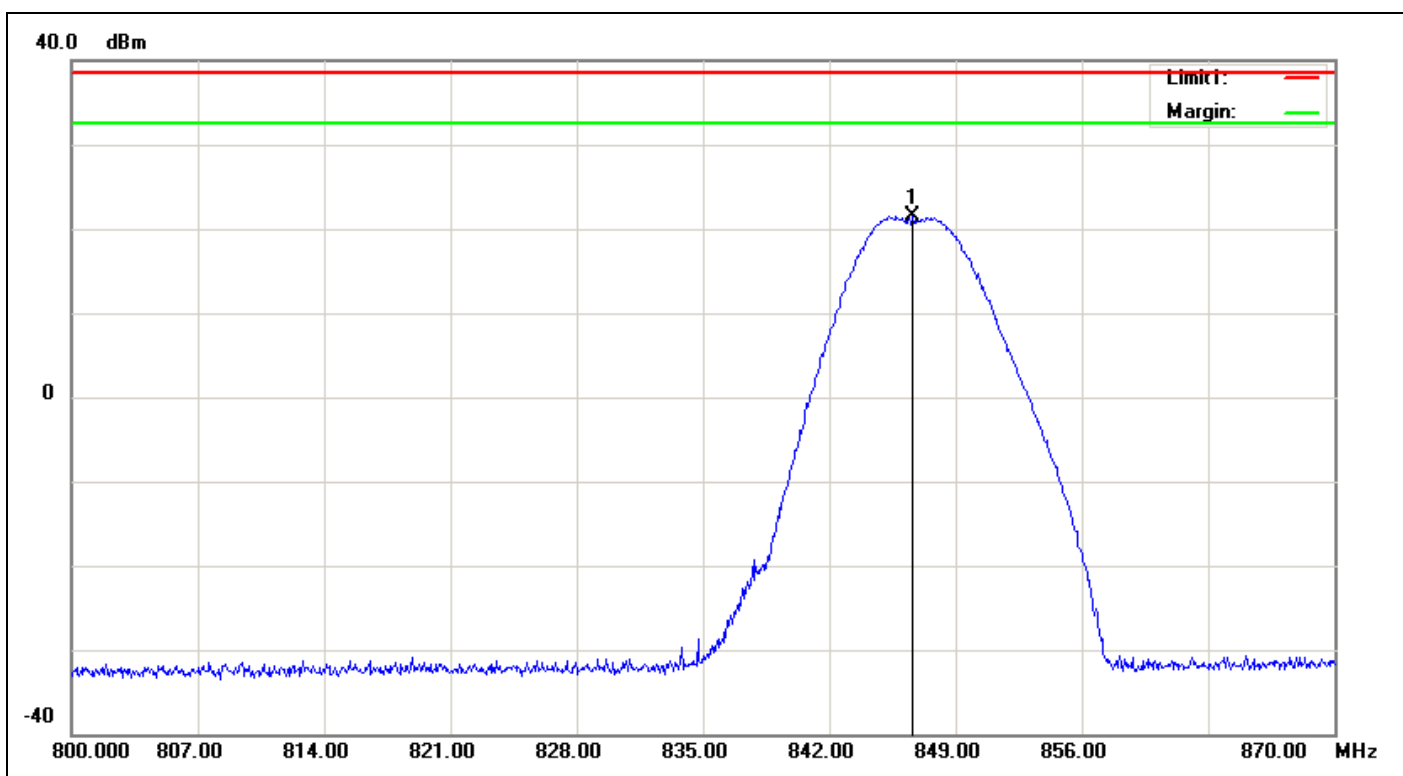


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	845.4300	17.03	3.4	6.4	20.03	38.45	-18.42	230	184	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:41:42
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	846.6200	18.51	3.4	6.4	21.51	38.45	-16.94	230	47	peak



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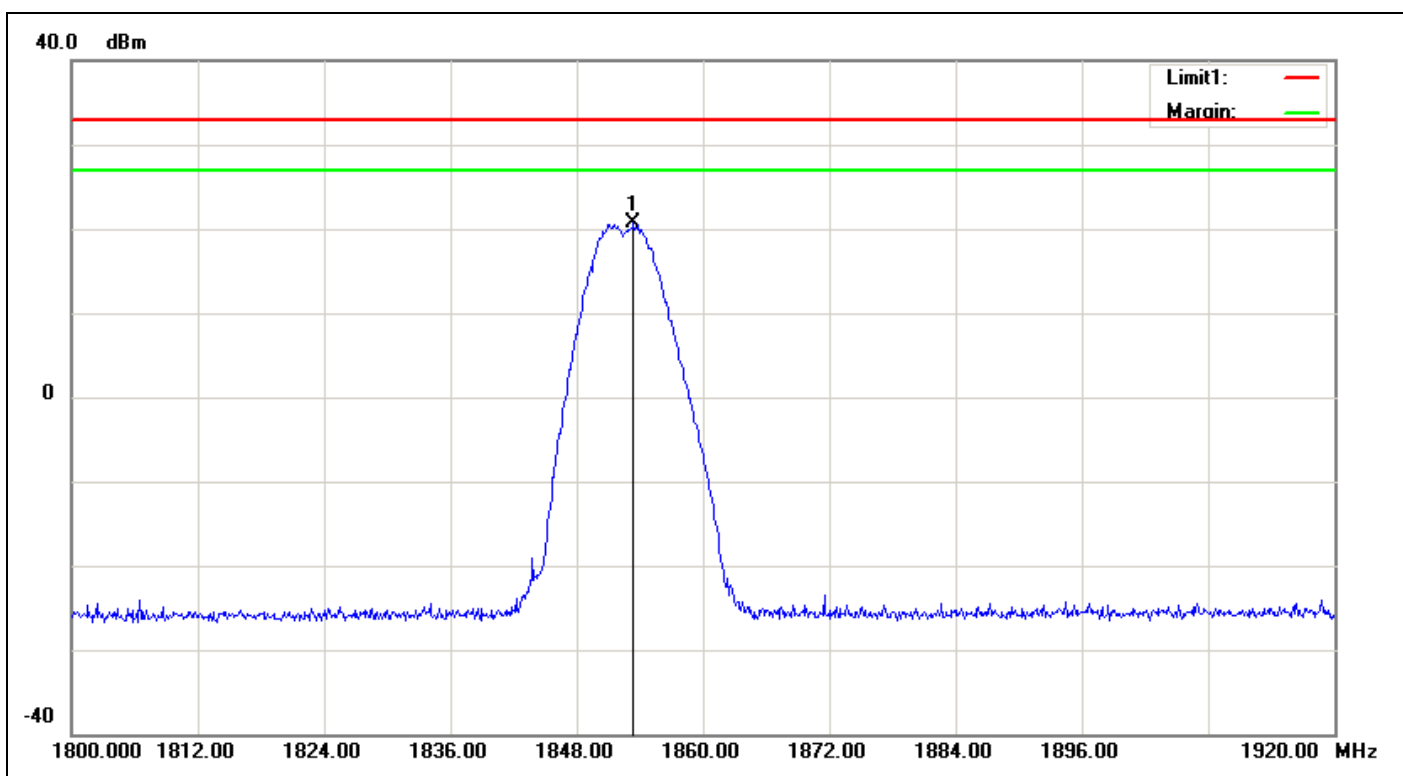
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:22:32
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1853.400	20.49	5.38	5.66	20.77	33.00	-12.23	230	209	peak



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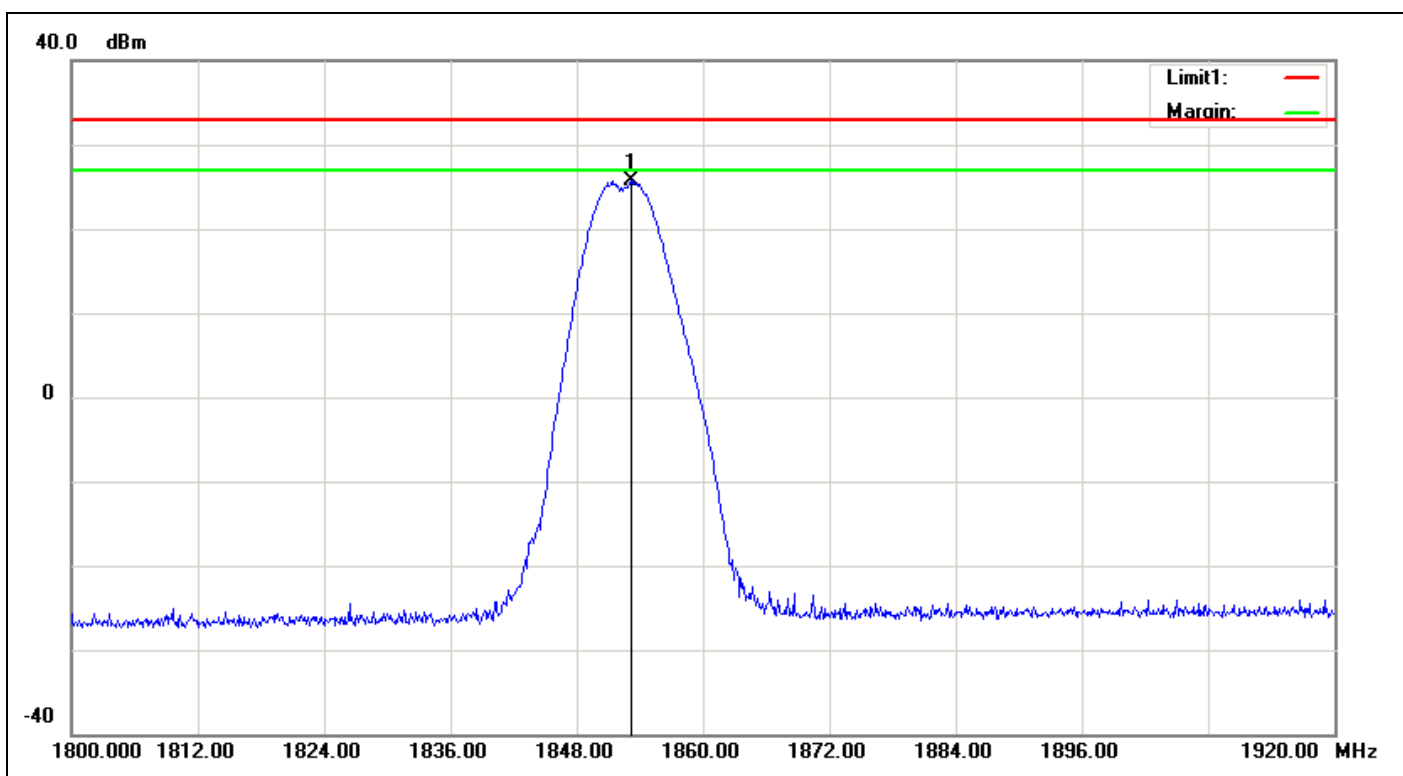
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:20:29
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1853.160	25.49	5.38	5.66	25.77	33.00	-7.23	230	51	peak



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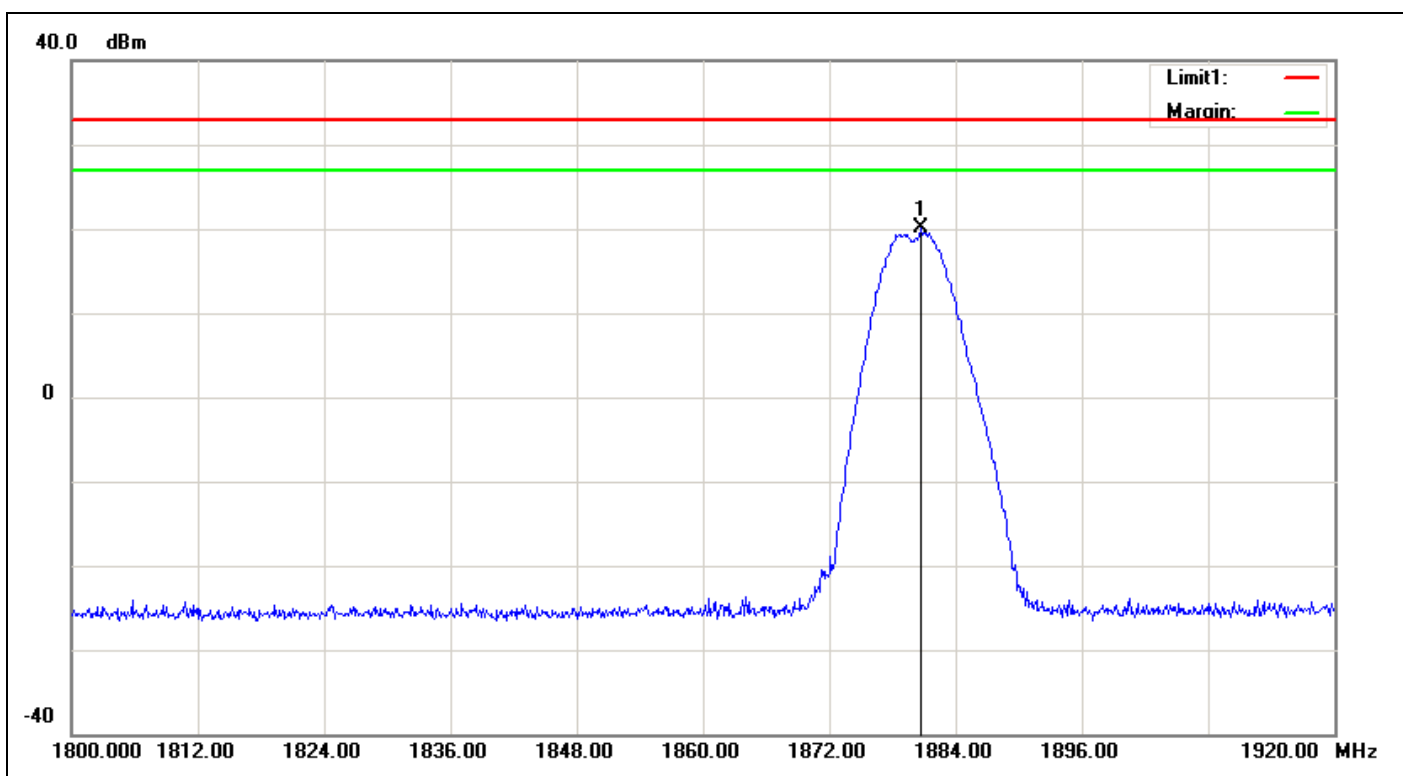
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 03:16:07</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9400</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1880.760	19.9	5.42	5.61	20.09	33.00	-12.91	230	119	peak



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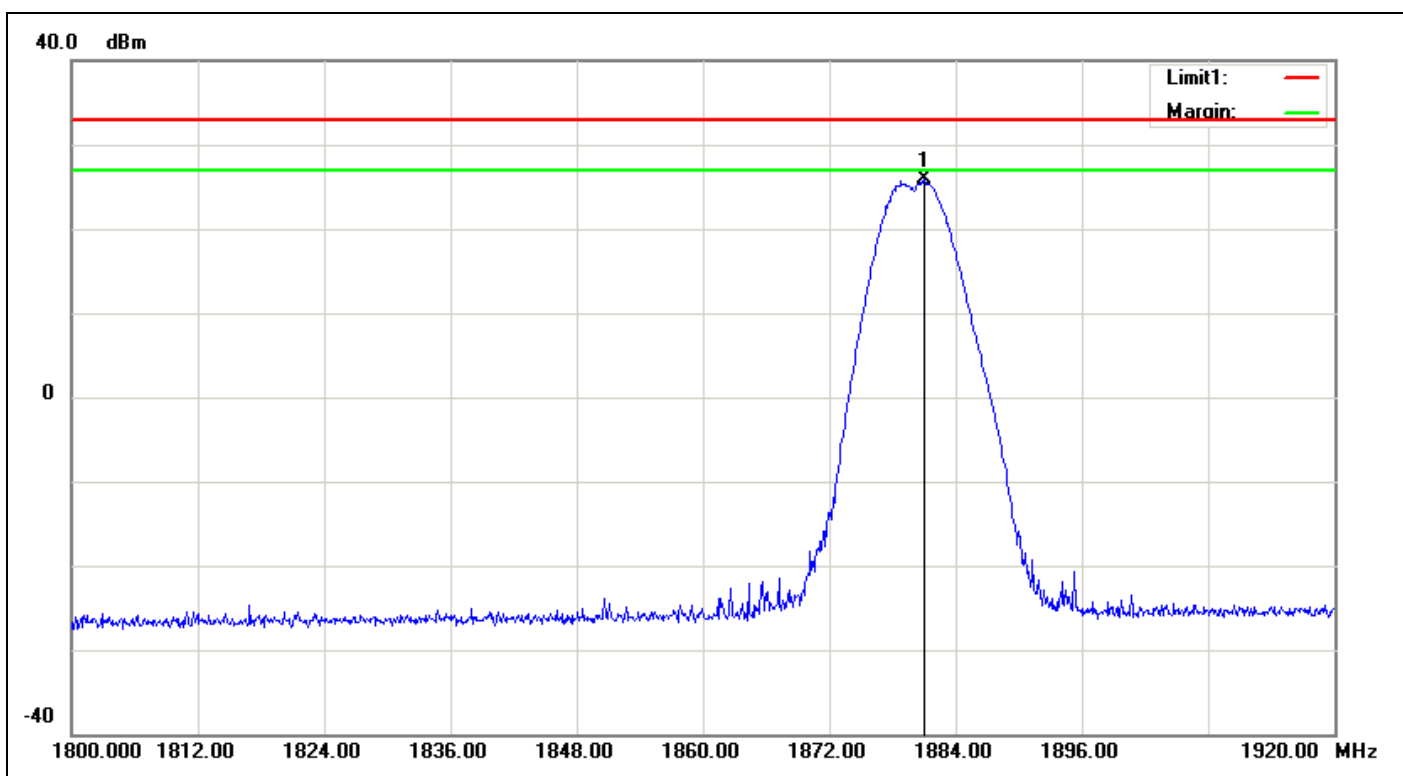
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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:18:10
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1881.000	25.78	5.42	5.61	25.97	33.00	-7.03	230	39	peak



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五股實驗室 Wugu LAB

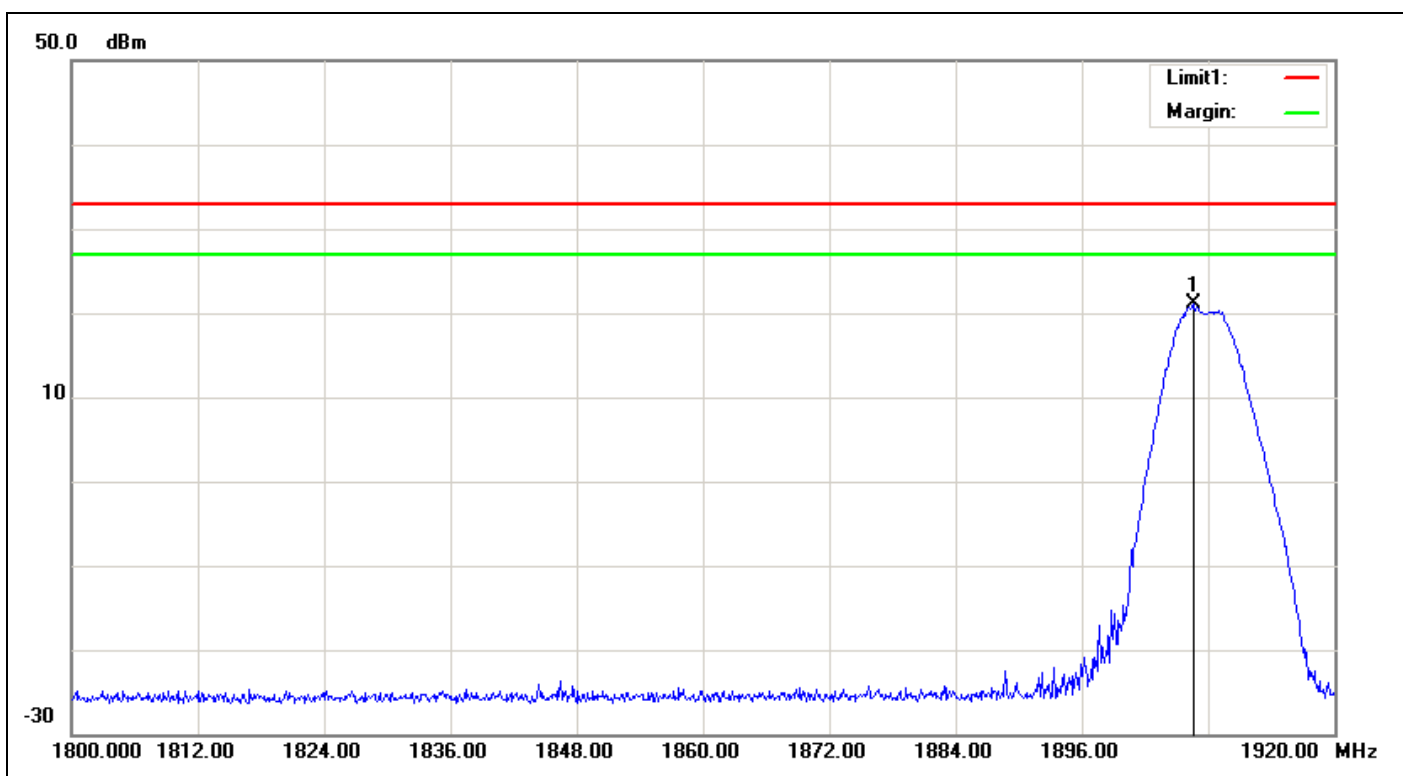
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:13:46
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



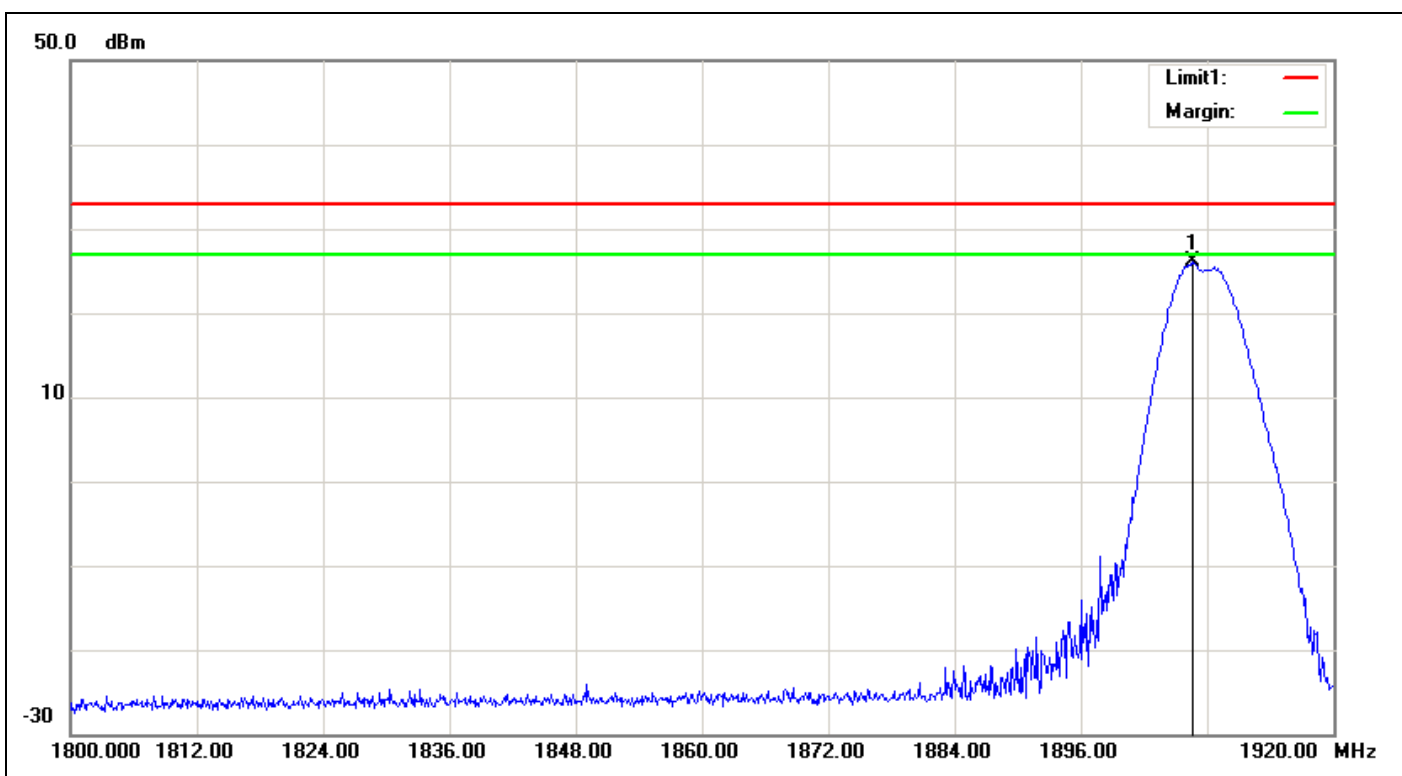
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1906.560	20.97	5.47	5.57	21.07	33.00	-11.93	230	124	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:11:31
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		

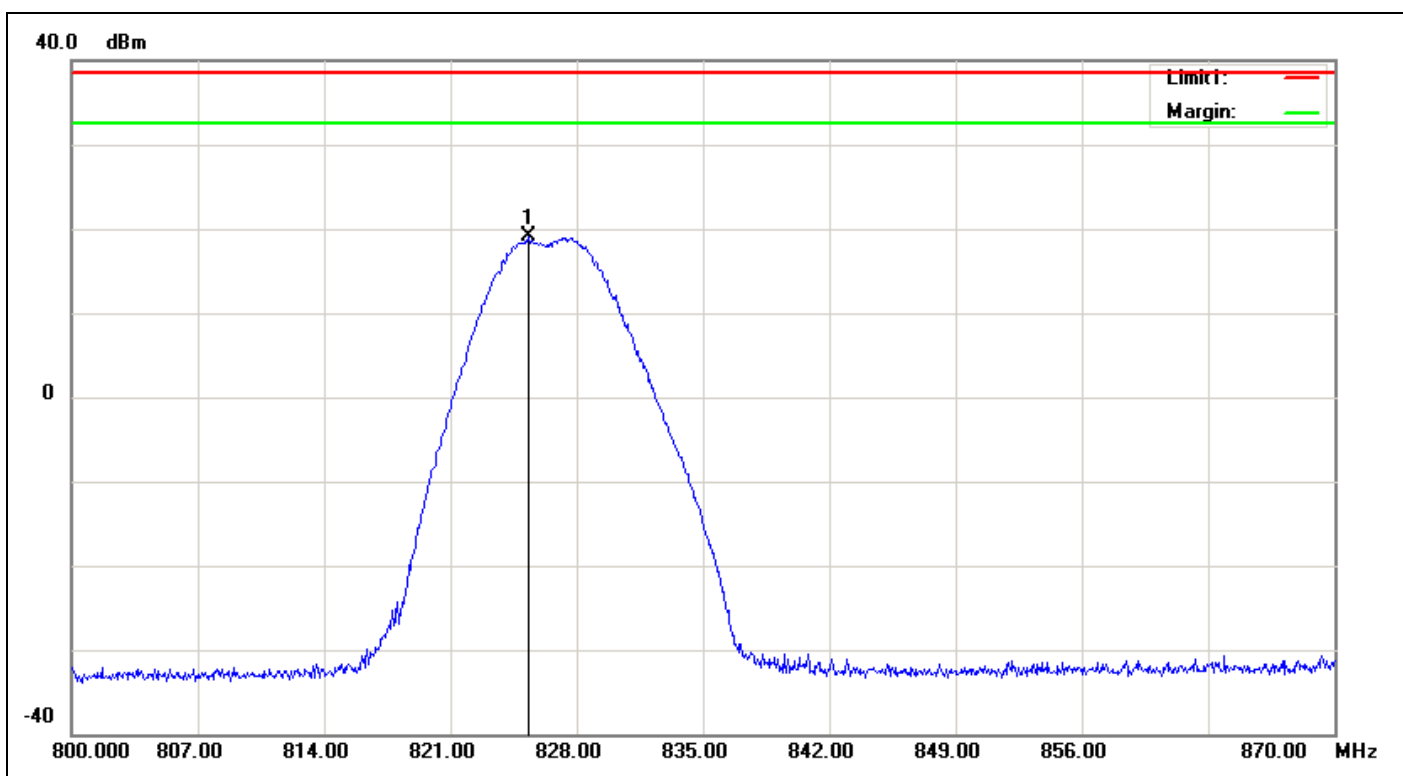


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1906.560	25.93	5.47	5.57	26.03	33.00	-6.97	230	60	peak



**Chamber #1**

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)-主波 Fundametal</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:</b>	<b>2014/8/19</b>
<b>Company:</b>	<b>HL8548</b>	<b>Time:</b>	<b>下午 03:04:17</b>
<b>Model:</b>	<b>安達富</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Description:</b>	<b>V-4132</b>		

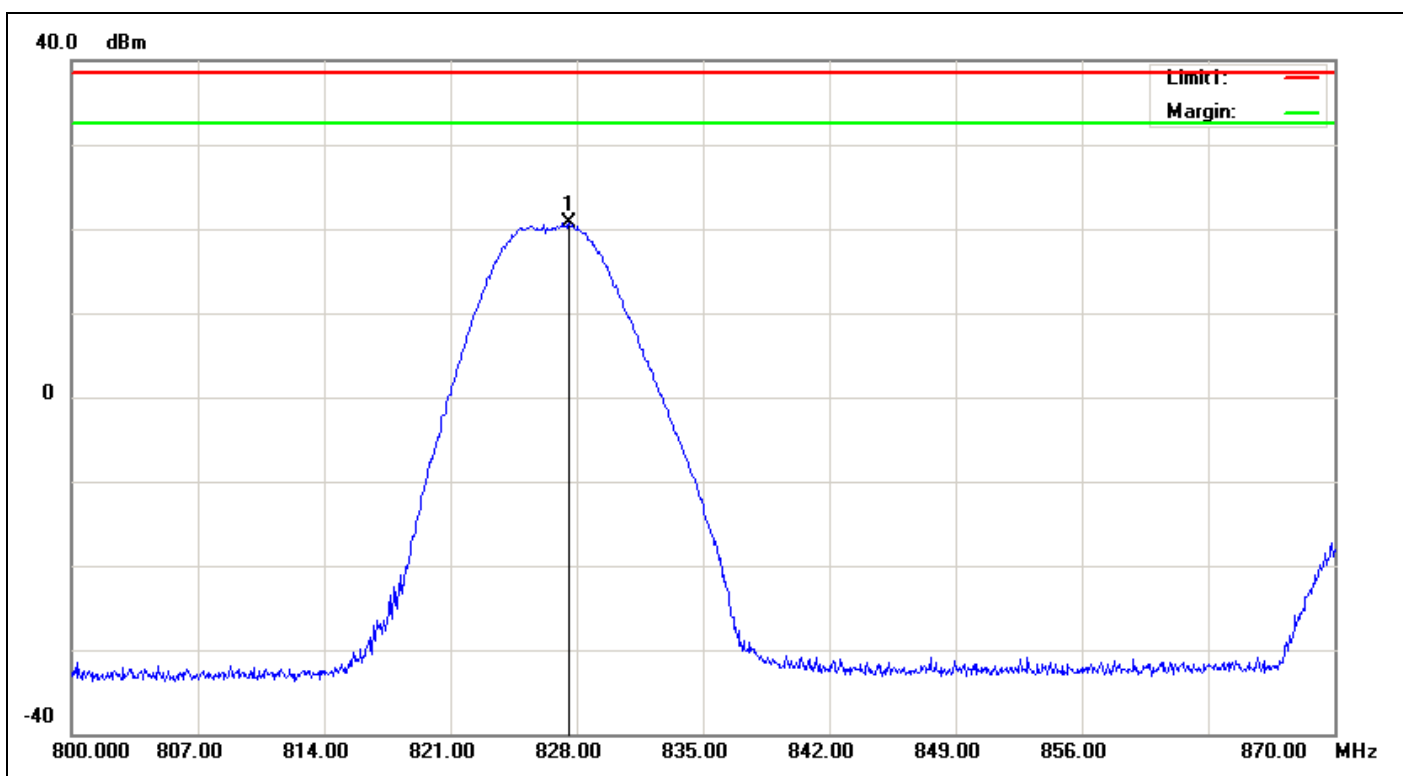


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	825.3400	16.15	3.39	6.25	19.01	38.45	-19.44	230	188	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:02:12
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		

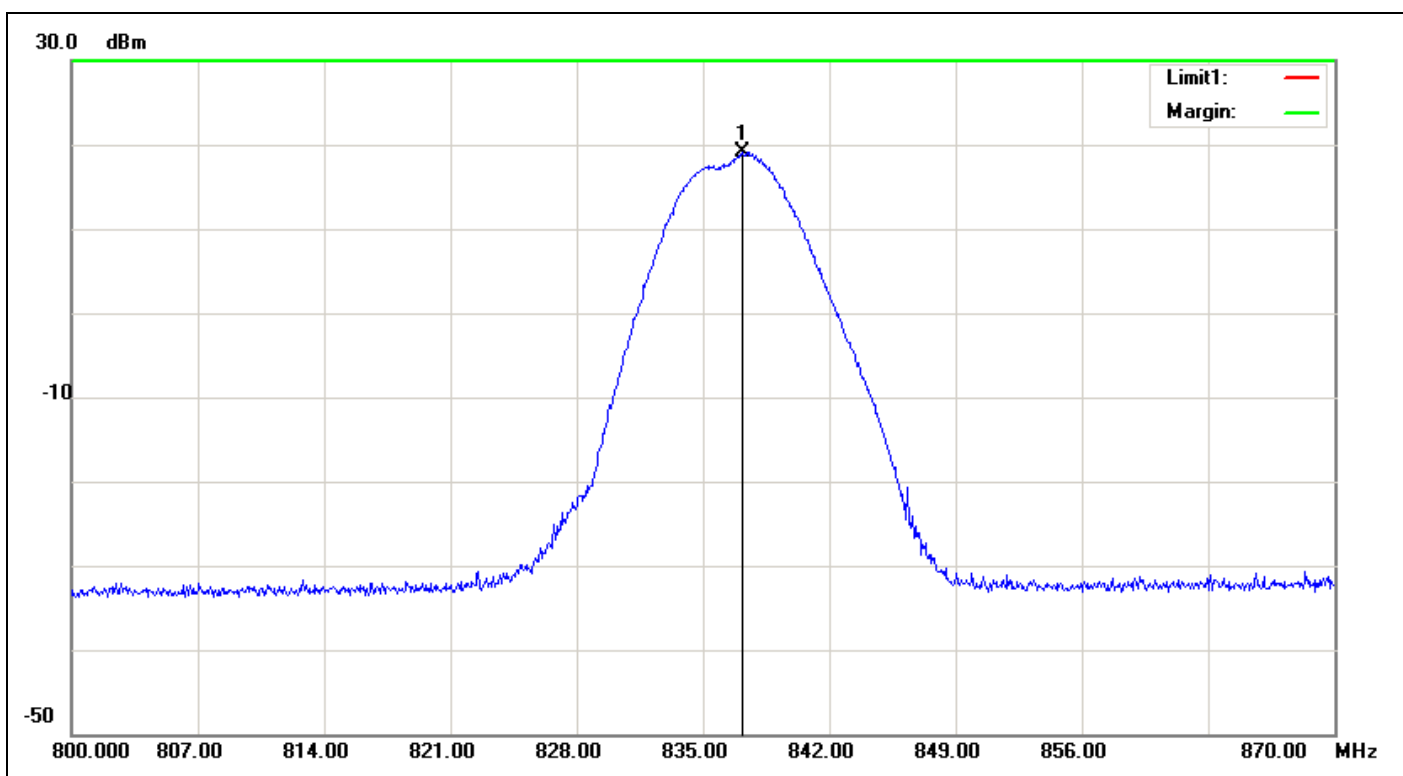


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	827.5800	17.75	3.39	6.27	20.63	38.45	-17.82	230	56	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:57:24
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		

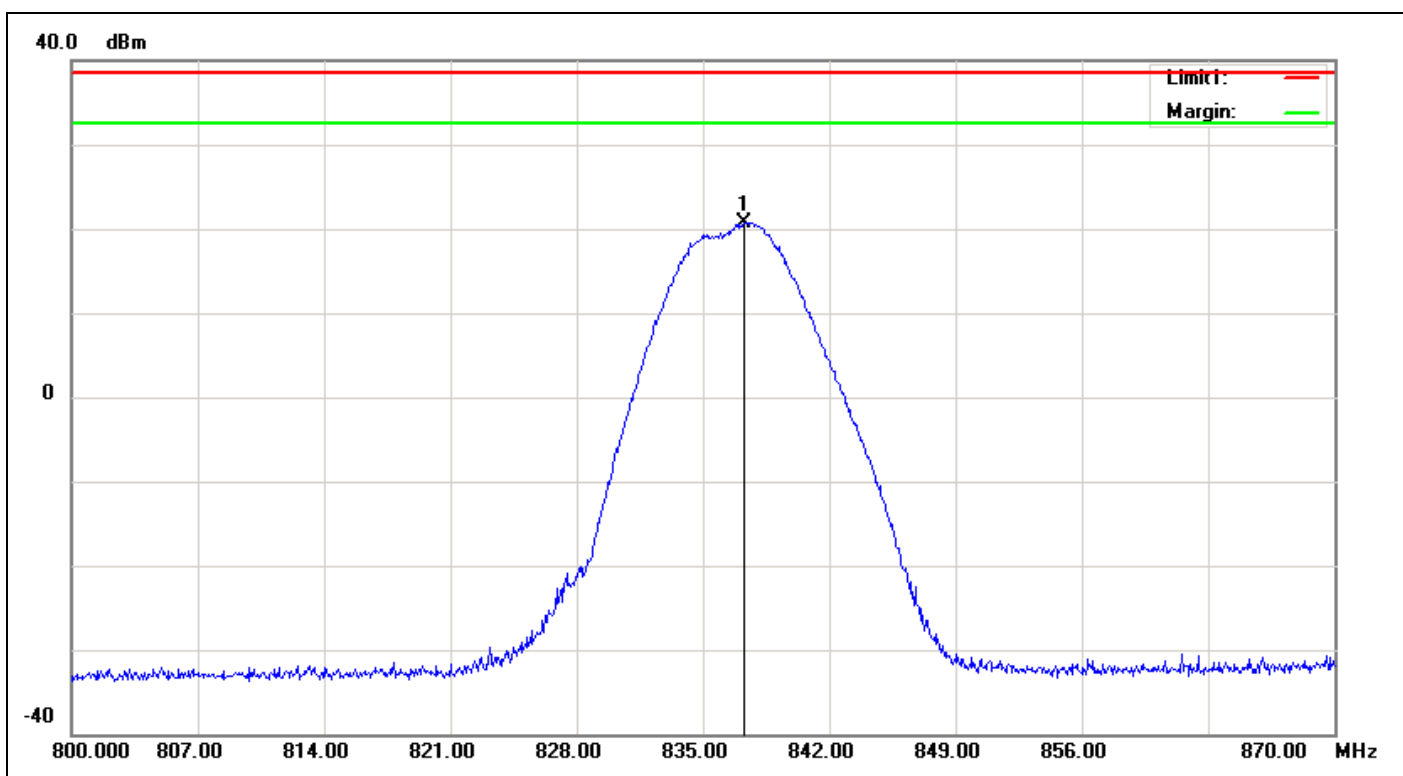


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	837.1700	16.12	3.4	6.37	19.09	38.45	-19.36	230	181	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:59:45
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	837.2400	17.78	3.4	6.37	20.75	38.45	-17.70	230	51	peak



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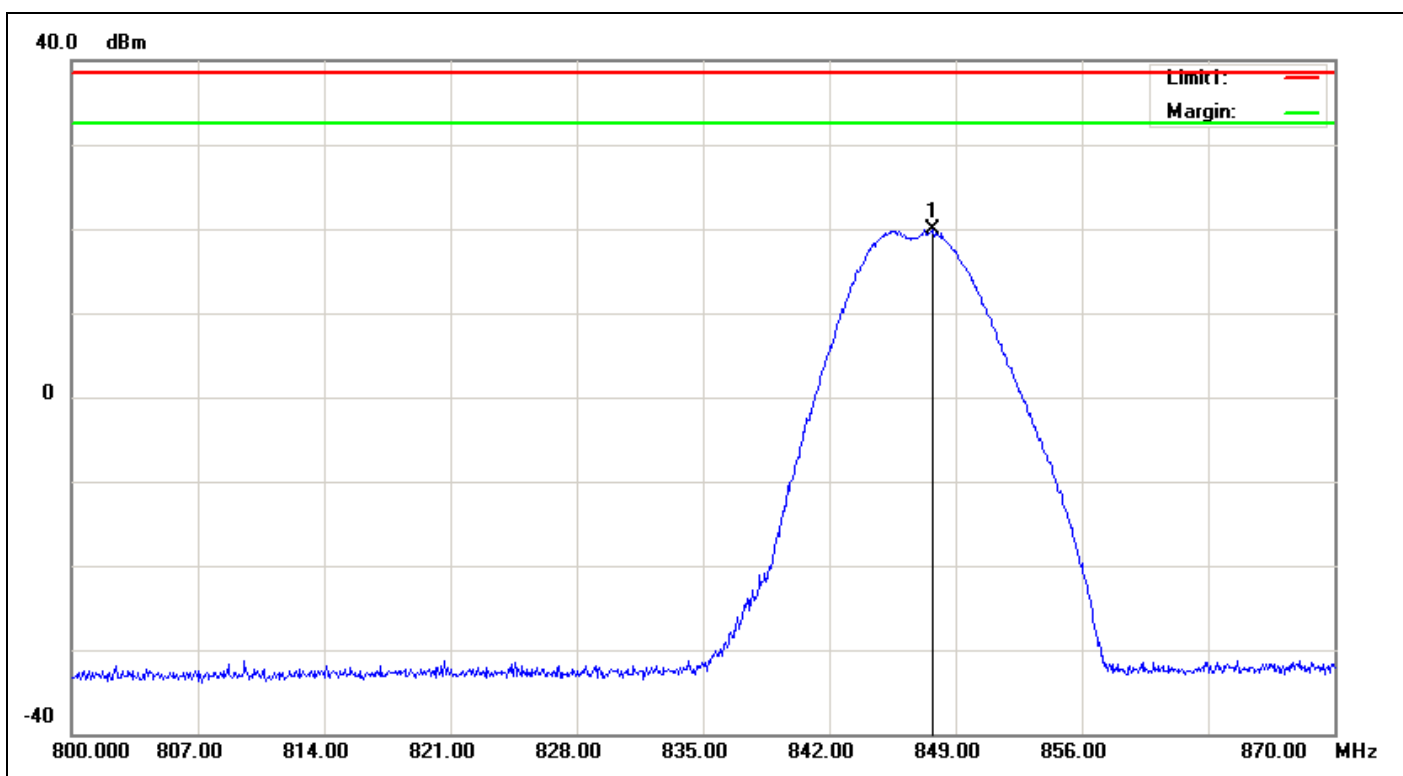
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:06:33
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		



No.	Frequency	S.G.	Cable	Ant.Gain	Result	Limit	Margin	Theta	Azimuth	Remark
	(MHz)	(dBm)	loss(dB)	(dBi)	(dBm)	(dBm)	dB	( ° )	( ° )	
1	847.7400	16.98	3.4	6.4	19.98	38.45	-18.47	230	189	peak



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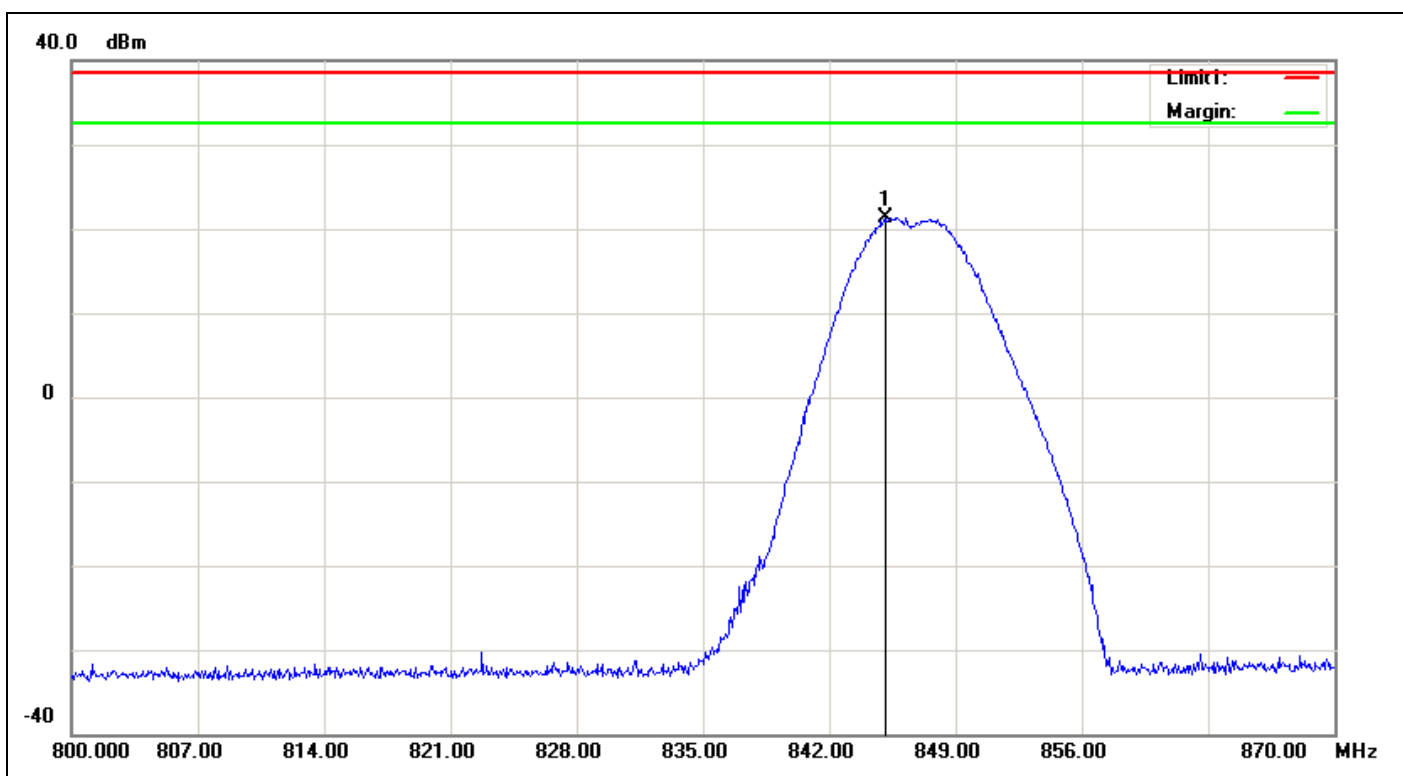
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)-主波 Fundametal	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:09:03
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

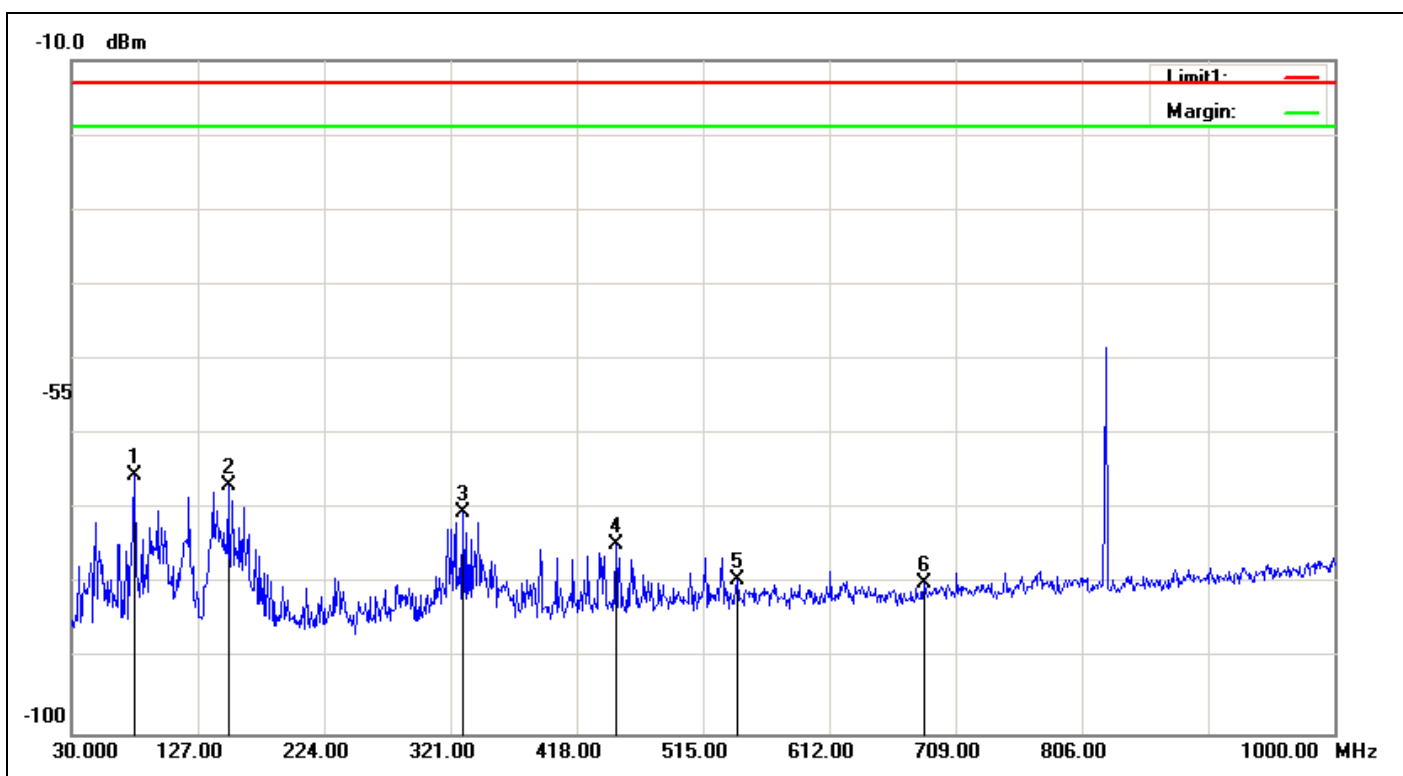


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	845.0800	18.37	3.4	6.4	21.37	38.45	-17.08	230	47	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:36:08
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



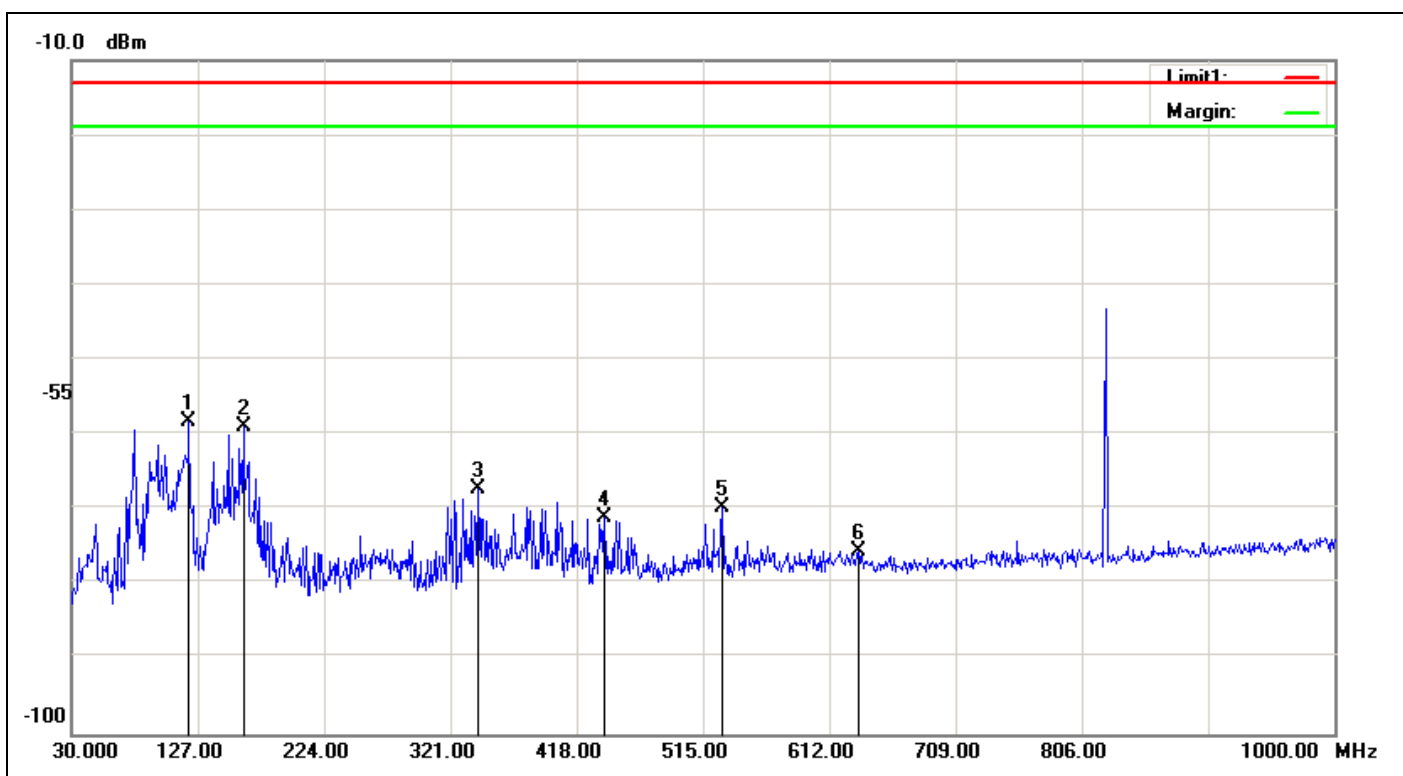
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.09	1.03	-0.43	-65.55	-13.00	-52.55	230	98	peak
2	150.2800	-66.1	1.43	0.71	-66.82	-13.00	-53.82	230	254	peak
3	330.7000	-73.86	2.16	5.71	-70.31	-13.00	-57.31	230	151	peak
4	448.0700	-77.74	2.58	5.74	-74.58	-13.00	-61.58	230	64	peak
5	541.1900	-82.92	2.78	6.25	-79.45	-13.00	-66.45	230	212	peak
6	684.7500	-83.33	3.11	6.5	-79.94	-13.00	-66.94	230	160	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:38:10
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	120.2100	-55.01	1.27	-2.06	-58.34	-13.00	-45.34	230	211	peak
2	161.9200	-59.09	1.5	1.61	-58.98	-13.00	-45.98	230	172	peak
3	342.3400	-70.84	2.18	5.8	-67.22	-13.00	-54.22	230	186	peak
4	439.3400	-74.37	2.53	5.9	-71.00	-13.00	-58.00	230	197	peak
5	529.5500	-73.02	2.75	6	-69.77	-13.00	-56.77	230	167	peak
6	634.3100	-78.71	2.99	6.18	-75.52	-13.00	-62.52	230	60	peak



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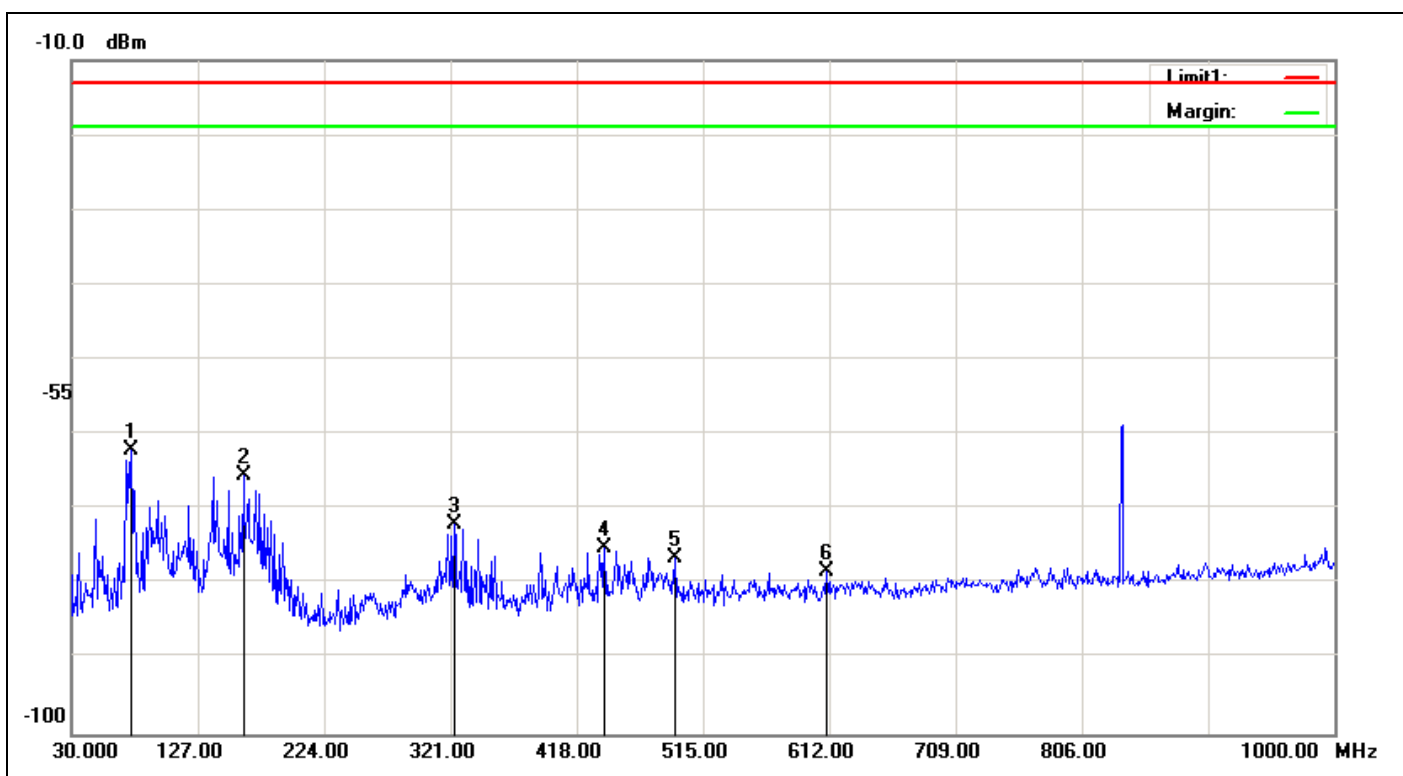
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:上午 10:22:26</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-190</b>		

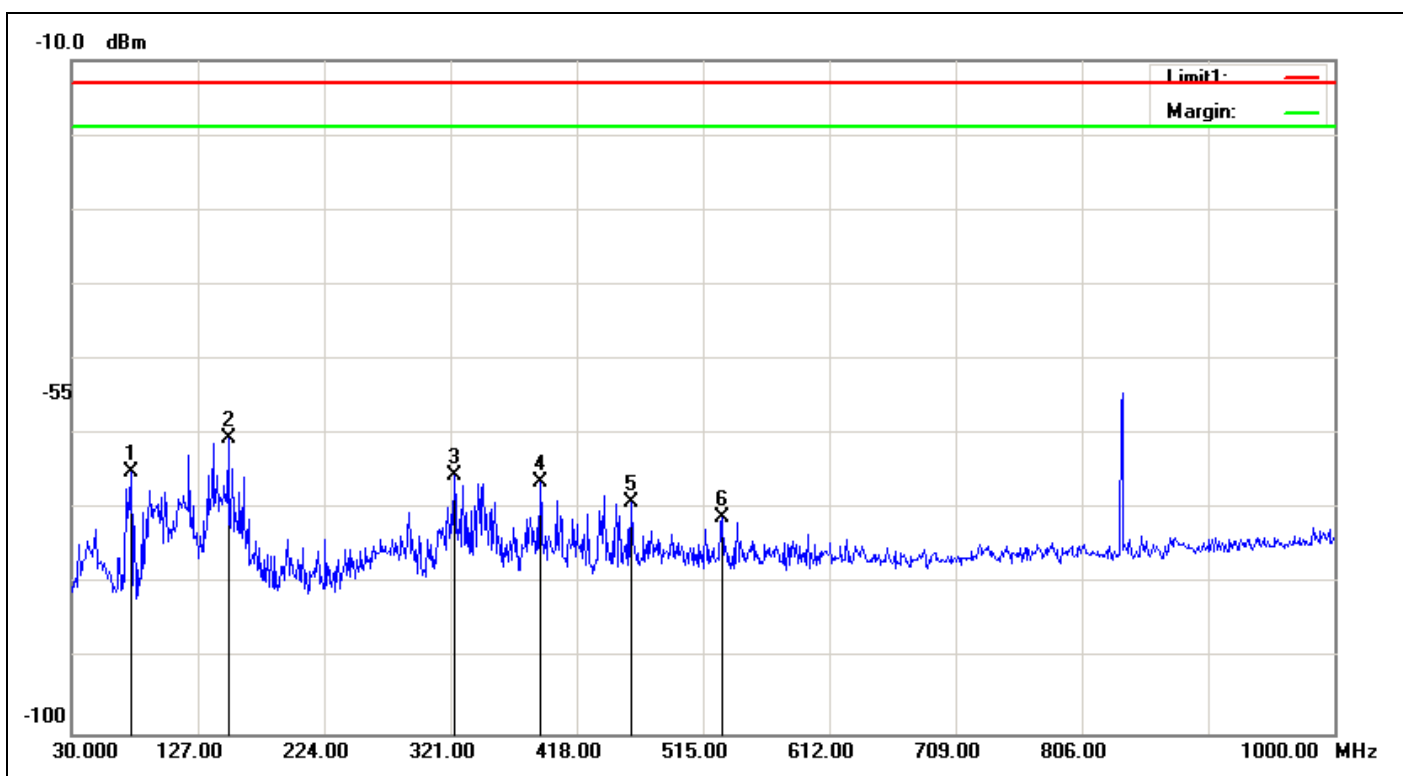


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.18	1.01	-0.94	-62.13	-13.00	-49.13	230	70	peak
2	161.9200	-65.55	1.5	1.61	-65.44	-13.00	-52.44	230	174	peak
3	323.9100	-75.44	2.17	5.7	-71.91	-13.00	-58.91	230	9	peak
4	439.3400	-78.6	2.53	5.9	-75.23	-13.00	-62.23	230	16	peak
5	493.6600	-79.62	2.68	5.83	-76.47	-13.00	-63.47	230	219	peak
6	610.0600	-81.73	2.94	6.29	-78.38	-13.00	-65.38	230	147	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:16:11
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

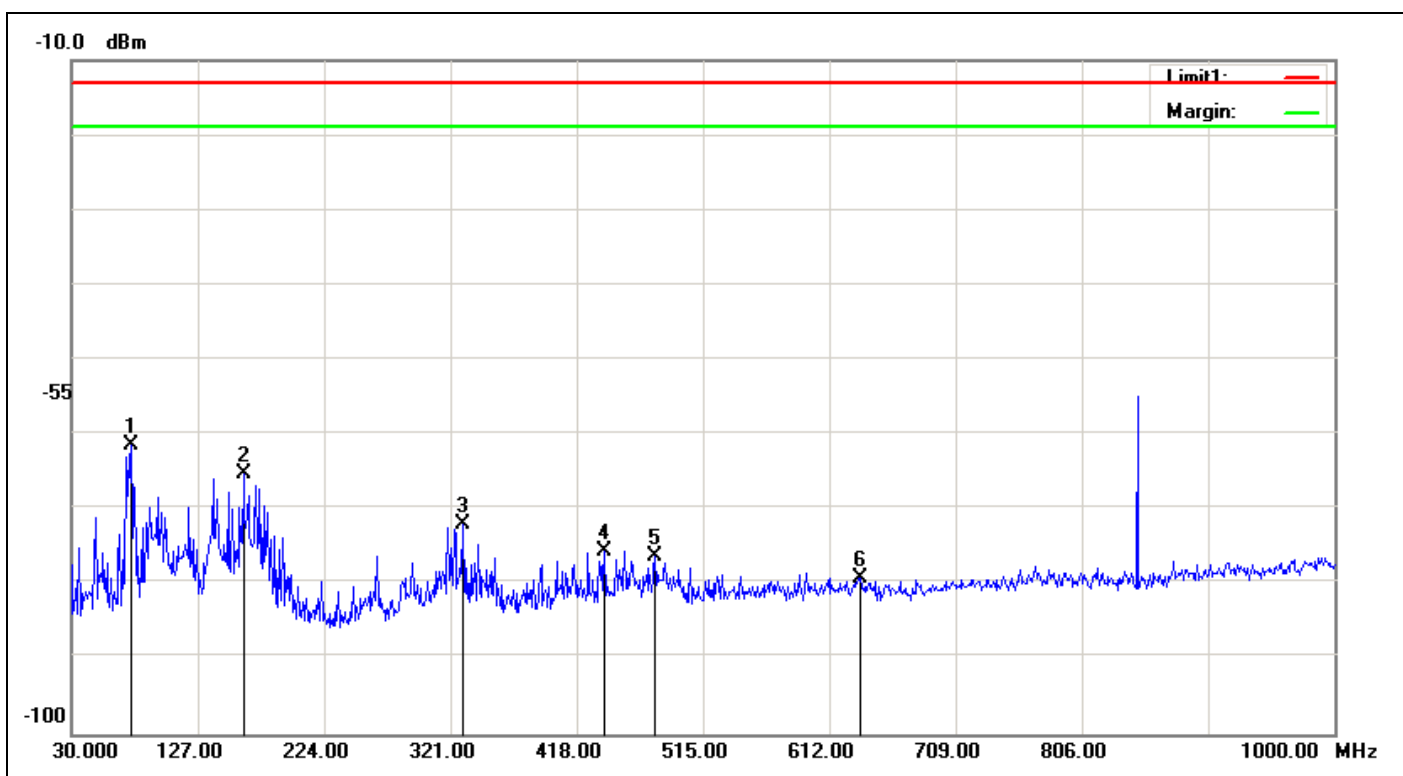


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-63.03	1.01	-0.94	-64.98	-13.00	-51.98	230	37	peak
2	150.2800	-59.88	1.43	0.71	-60.60	-13.00	-47.60	230	31	peak
3	323.9100	-69.01	2.17	5.7	-65.48	-13.00	-52.48	230	305	peak
4	389.8700	-69.95	2.32	6	-66.27	-13.00	-53.27	230	44	peak
5	459.7100	-72.43	2.6	5.88	-69.15	-13.00	-56.15	230	174	peak
6	529.5500	-74.23	2.75	6	-70.98	-13.00	-57.98	230	174	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:04:51
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-59.42	1.01	-0.94	-61.37	-13.00	-48.37	230	121	peak
2	161.9200	-65.35	1.5	1.61	-65.24	-13.00	-52.24	230	167	peak
3	330.7000	-75.64	2.16	5.71	-72.09	-13.00	-59.09	230	121	peak
4	439.3400	-78.88	2.53	5.9	-75.51	-13.00	-62.51	230	28	peak
5	478.1400	-79.11	2.63	5.59	-76.15	-13.00	-63.15	230	233	peak
6	635.2800	-82.36	2.99	6.17	-79.18	-13.00	-66.18	230	2	peak



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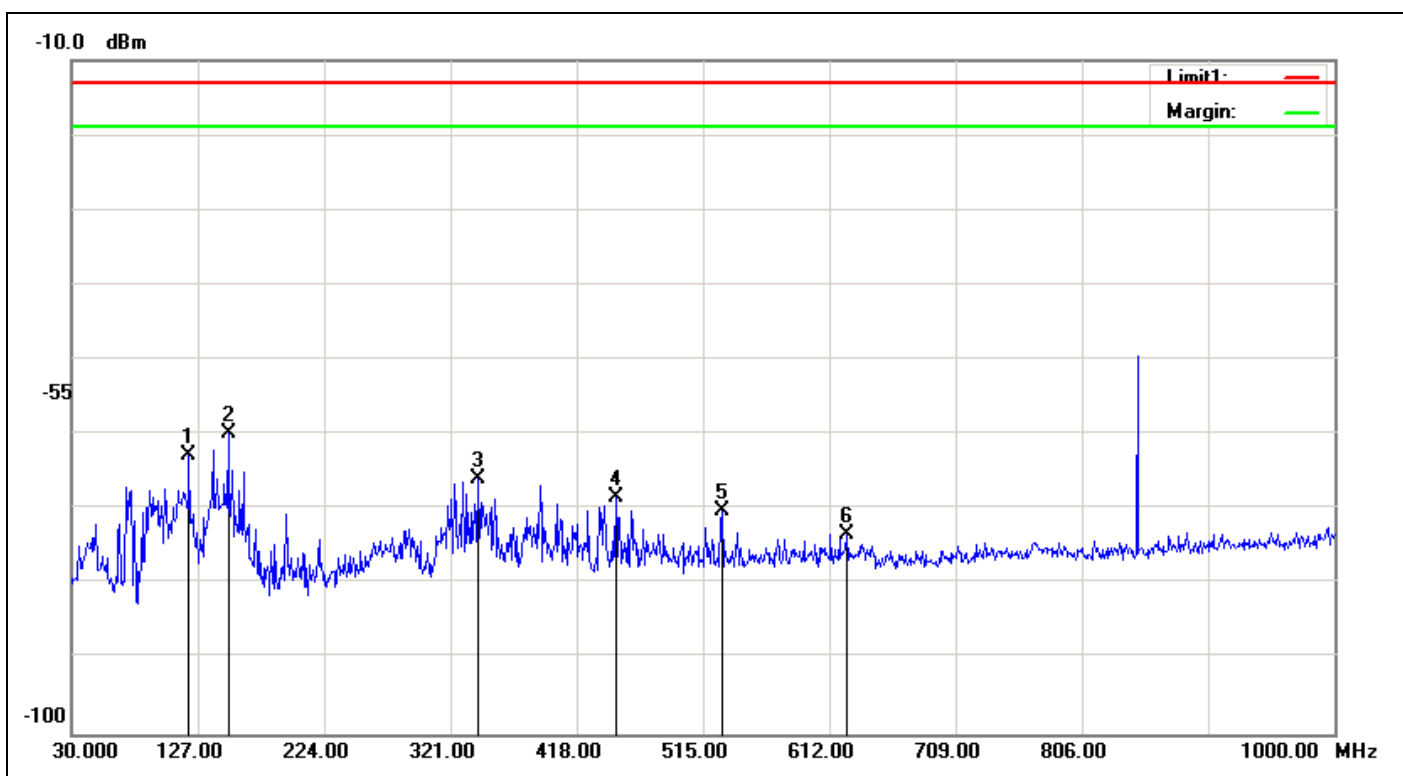
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:上午 10:07:07</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-251</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	120.2100	-59.46	1.27	-2.06	-62.79	-13.00	-49.79	230	183	peak
2	150.2800	-59.22	1.43	0.71	-59.94	-13.00	-46.94	230	19	peak
3	342.3400	-69.54	2.18	5.8	-65.92	-13.00	-52.92	230	65	peak
4	448.0700	-71.55	2.58	5.74	-68.39	-13.00	-55.39	230	158	peak
5	529.5500	-73.4	2.75	6	-70.15	-13.00	-57.15	230	183	peak
6	625.5800	-76.53	2.96	6.16	-73.33	-13.00	-60.33	230	205	peak



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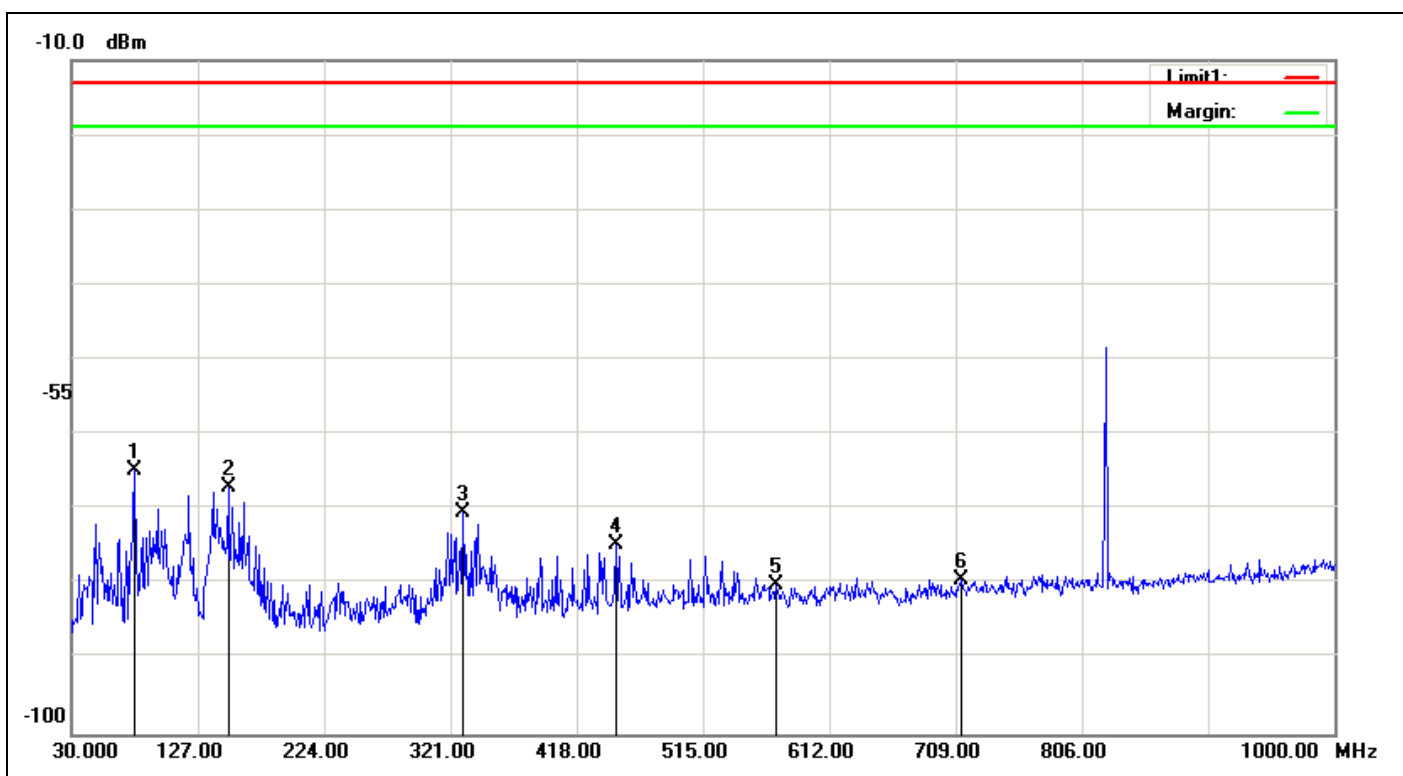
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/18</b>	<b>Time:下午 07:34:04</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-128</b>		

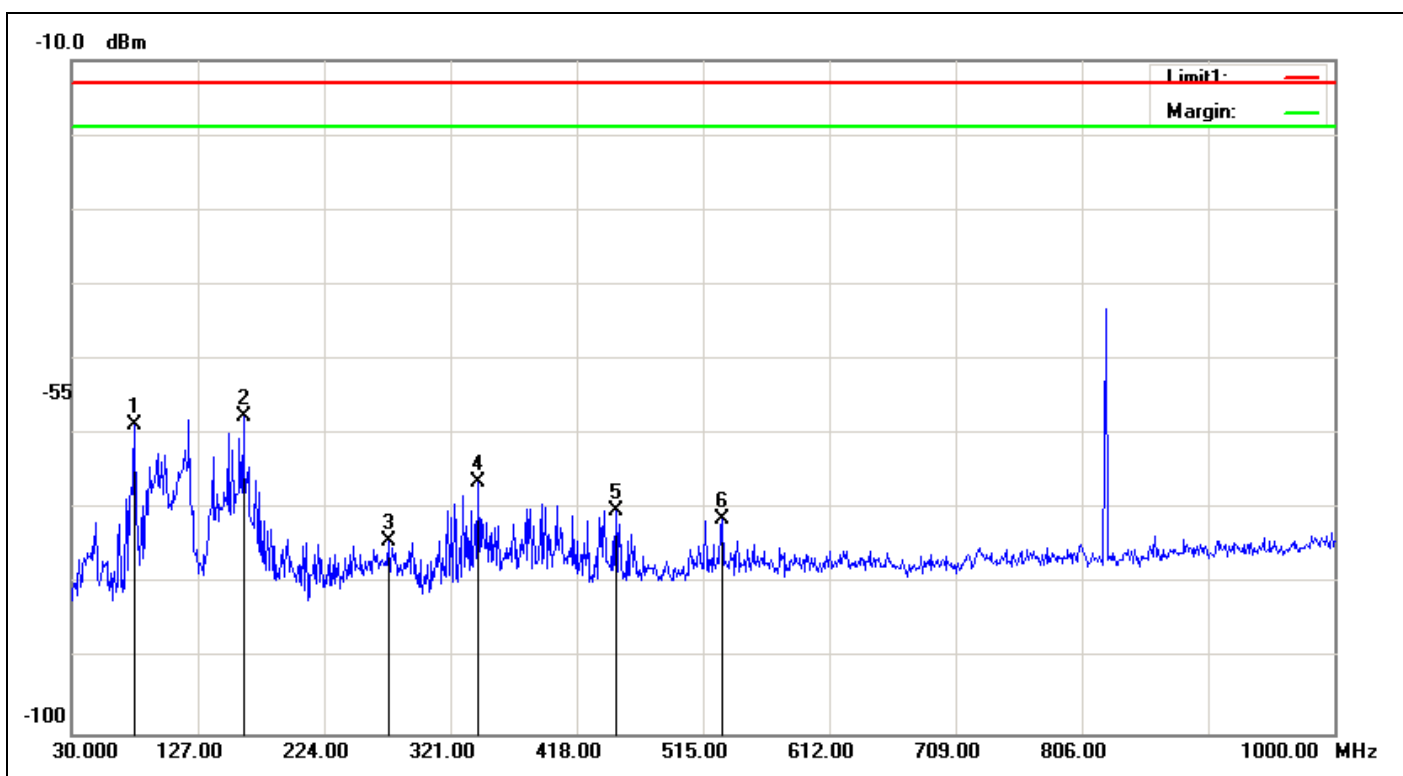


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-63.32	1.03	-0.43	-64.78	-13.00	-51.78	230	94	peak
2	150.2800	-66.28	1.43	0.71	-67.00	-13.00	-54.00	230	228	peak
3	330.7000	-74.03	2.16	5.71	-70.48	-13.00	-57.48	230	149	peak
4	448.0700	-77.89	2.58	5.74	-74.73	-13.00	-61.73	230	100	peak
5	571.2600	-83.37	2.87	6.1	-80.14	-13.00	-67.14	230	19	peak
6	713.8500	-82.6	3.15	6.38	-79.37	-13.00	-66.37	230	328	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:40:12
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		

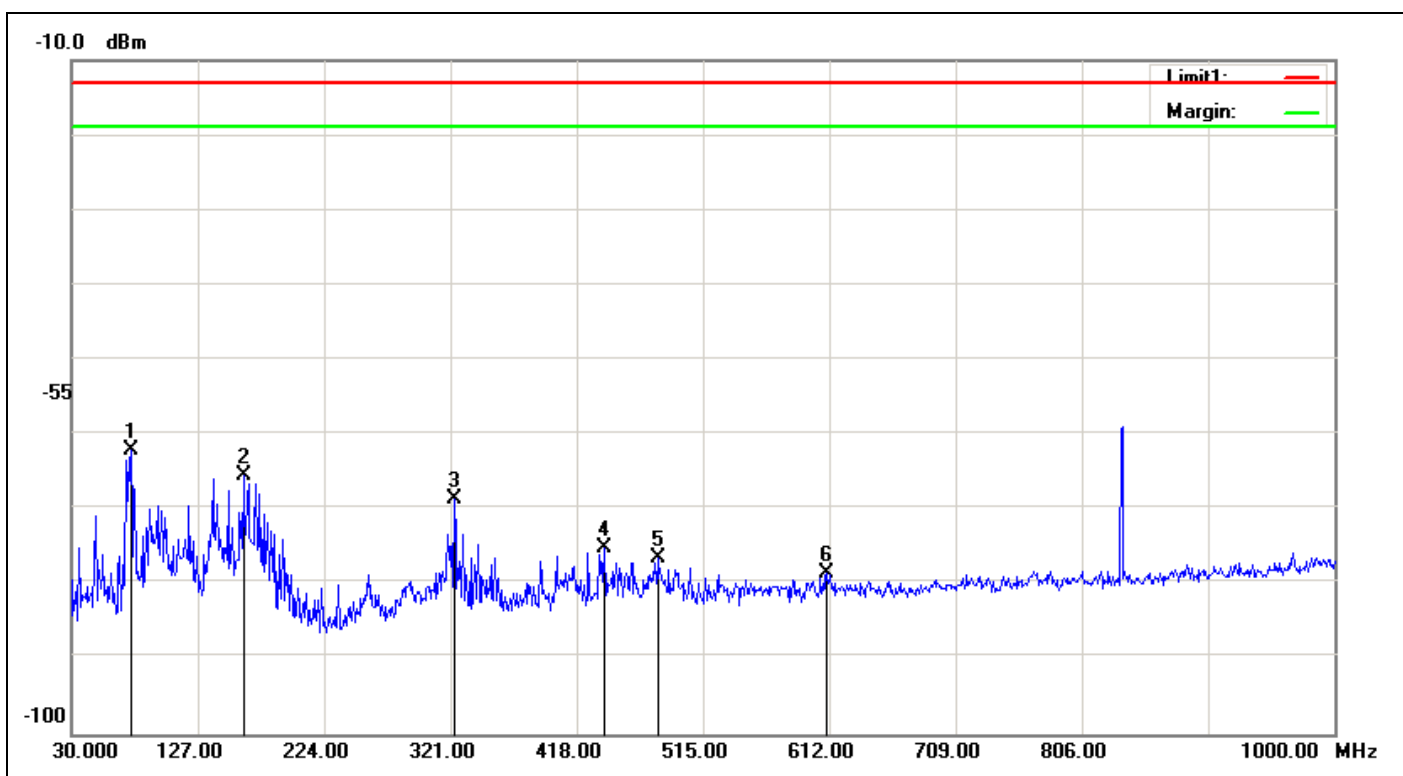


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-57.22	1.03	-0.43	-58.68	-13.00	-45.68	230	176	peak
2	161.9200	-57.78	1.5	1.61	-57.67	-13.00	-44.67	230	154	peak
3	273.4700	-77.31	1.99	5.17	-74.13	-13.00	-61.13	230	178	peak
4	342.3400	-70.01	2.18	5.8	-66.39	-13.00	-53.39	230	199	peak
5	448.0700	-73.29	2.58	5.74	-70.13	-13.00	-57.13	230	176	peak
6	529.5500	-74.47	2.75	6	-71.22	-13.00	-58.22	230	178	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:20:22
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



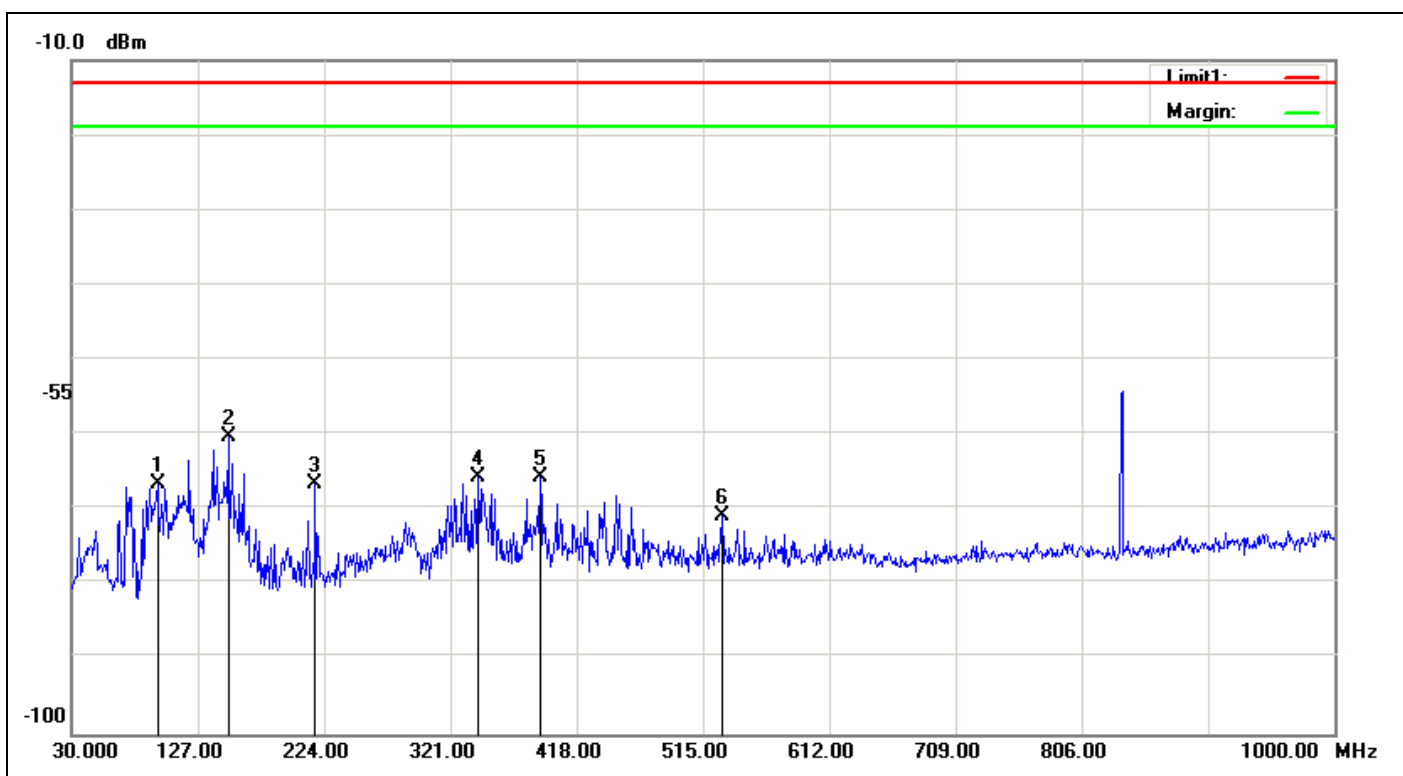
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.14	1.01	-0.94	-62.09	-13.00	-49.09	230	78	peak
2	161.9200	-65.66	1.5	1.61	-65.55	-13.00	-52.55	230	163	peak
3	323.9100	-72.1	2.17	5.7	-68.57	-13.00	-55.57	230	7	peak
4	439.3400	-78.46	2.53	5.9	-75.09	-13.00	-62.09	230	1	peak
5	480.0800	-79.37	2.64	5.54	-76.47	-13.00	-63.47	230	202	peak
6	610.0600	-81.89	2.94	6.29	-78.54	-13.00	-65.54	230	189	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:14:05
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

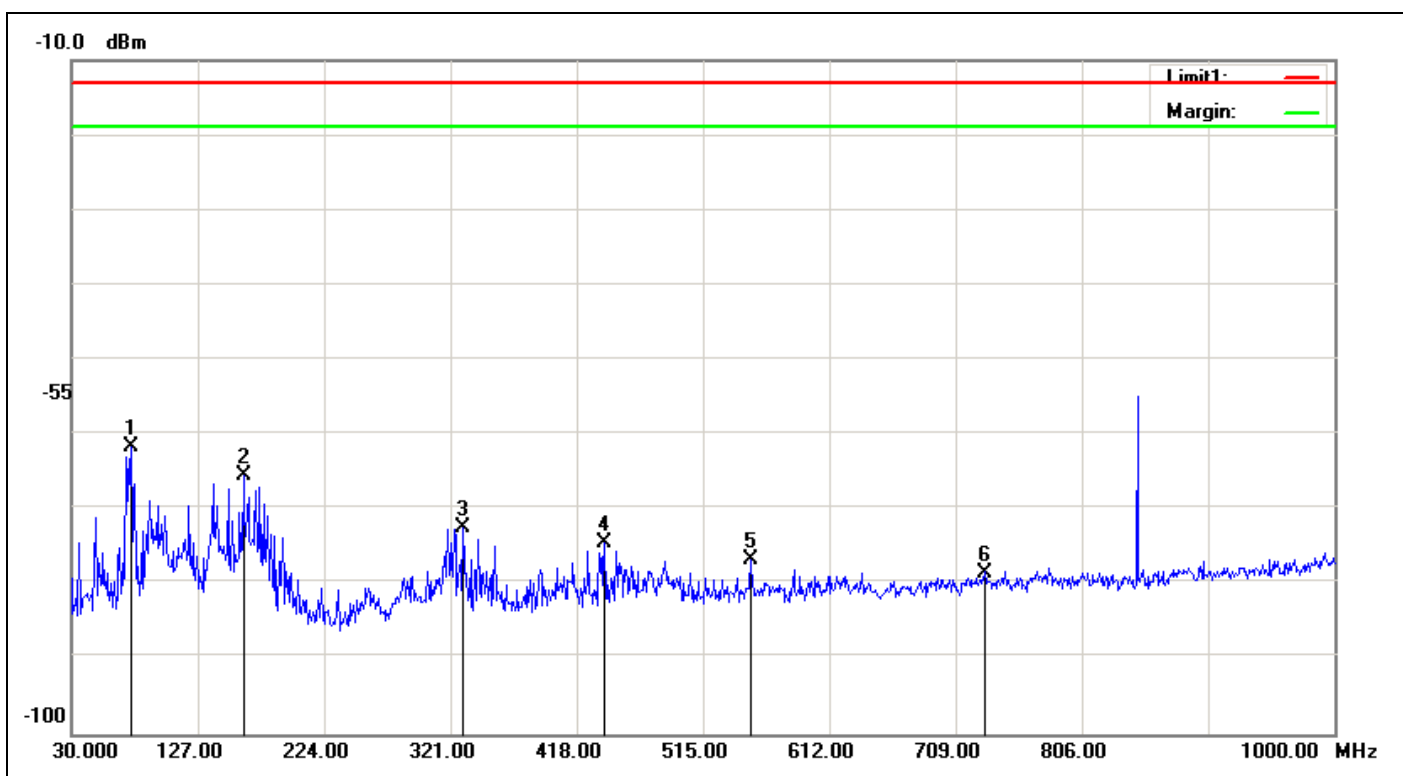


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	95.9600	-65.81	1.13	0.26	-66.68	-13.00	-53.68	230	18	peak
2	150.2800	-59.58	1.43	0.71	-60.30	-13.00	-47.30	230	34	peak
3	217.2100	-70.24	1.74	5.35	-66.63	-13.00	-53.63	230	230	peak
4	342.3400	-69.2	2.18	5.8	-65.58	-13.00	-52.58	230	69	peak
5	389.8700	-69.44	2.32	6	-65.76	-13.00	-52.76	230	234	peak
6	529.5500	-74.12	2.75	6	-70.87	-13.00	-57.87	230	181	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:02:23
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-59.71	1.01	-0.94	-61.66	-13.00	-48.66	230	117	peak
2	161.9200	-65.5	1.5	1.61	-65.39	-13.00	-52.39	230	175	peak
3	330.7000	-75.99	2.16	5.71	-72.44	-13.00	-59.44	230	89	peak
4	439.3400	-77.92	2.53	5.9	-74.55	-13.00	-61.55	230	24	peak
5	551.8600	-80.06	2.81	6.16	-76.71	-13.00	-63.71	230	329	peak
6	731.3100	-81.59	3.18	6.37	-78.40	-13.00	-65.40	230	284	peak



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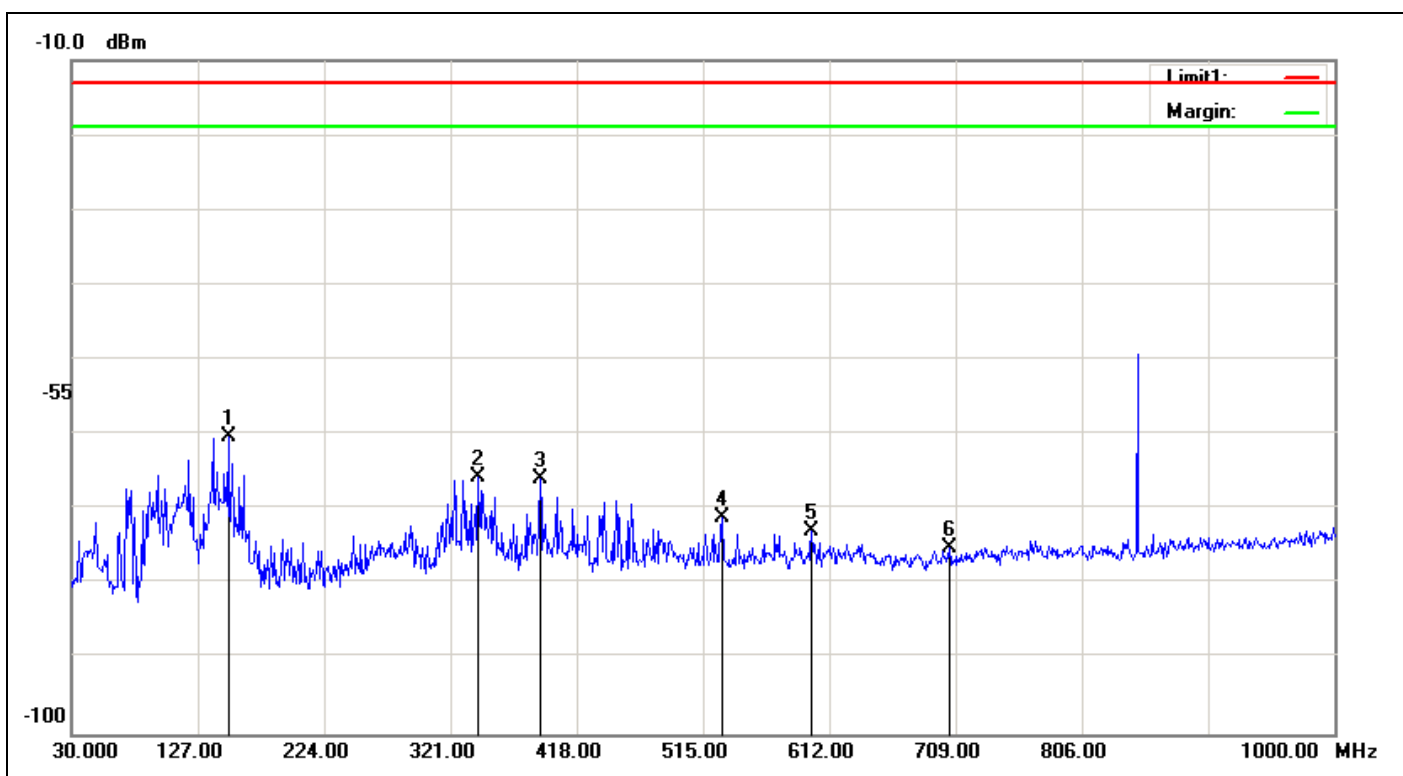
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:09:17
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		

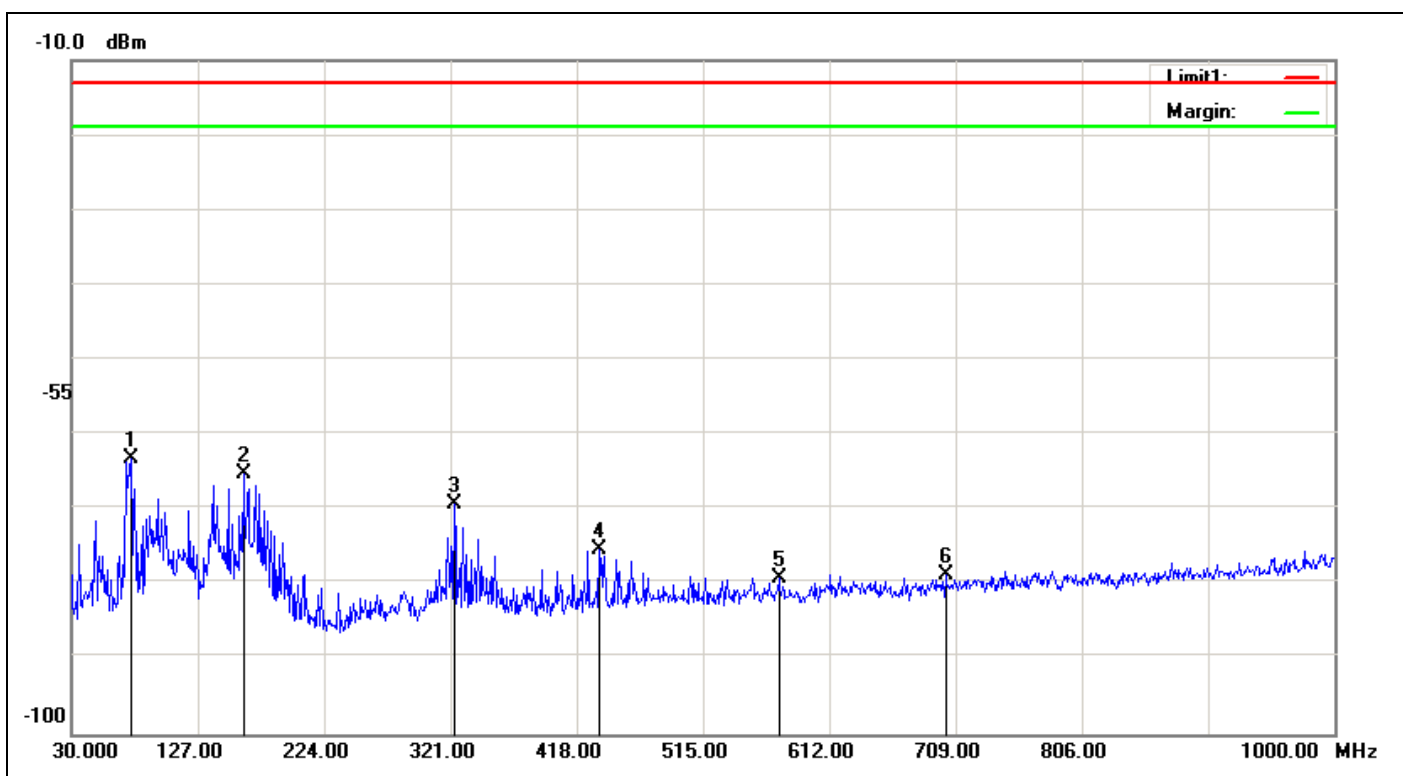


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	150.2800	-59.59	1.43	0.71	-60.31	-13.00	-47.31	230	25	peak
2	342.3400	-69.29	2.18	5.8	-65.67	-13.00	-52.67	230	327	peak
3	389.8700	-69.63	2.32	6	-65.95	-13.00	-52.95	230	49	peak
4	529.5500	-74.24	2.75	6	-70.99	-13.00	-57.99	230	173	peak
5	598.4200	-76.31	2.9	6.37	-72.84	-13.00	-59.84	230	18	peak
6	704.1500	-78.34	3.13	6.35	-75.12	-13.00	-62.12	230	173	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:25:15
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

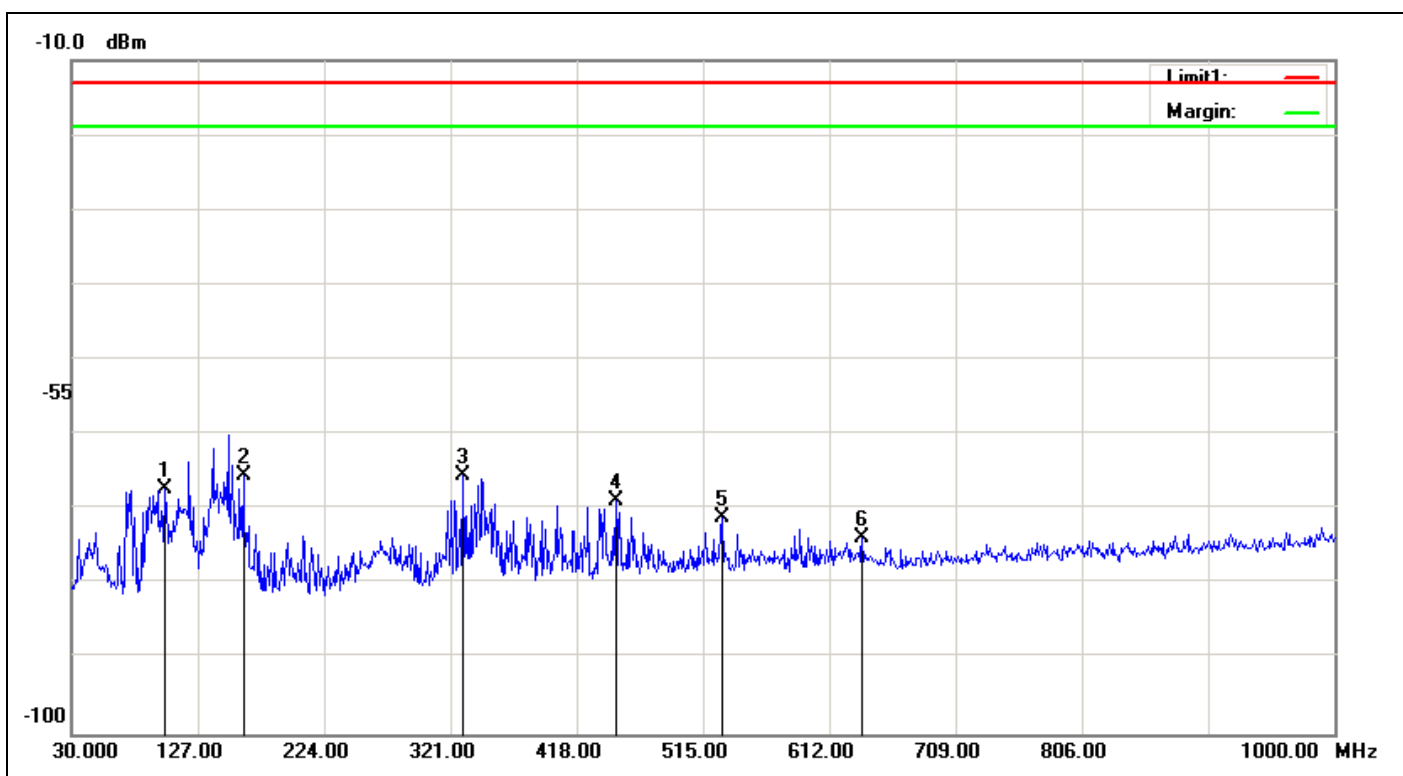


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-61.21	1.01	-0.94	-63.16	-13.00	-50.16	230	287	peak
2	161.9200	-65.43	1.5	1.61	-65.32	-13.00	-52.32	230	152	peak
3	323.9100	-72.91	2.17	5.7	-69.38	-13.00	-56.38	230	10	peak
4	435.4600	-78.73	2.51	5.86	-75.38	-13.00	-62.38	230	20	peak
5	573.2000	-82.28	2.88	6.08	-79.08	-13.00	-66.08	230	126	peak
6	701.2400	-82.03	3.12	6.38	-78.77	-13.00	-65.77	230	184	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:38:51
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-65.48	1.16	-0.64	-67.28	-13.00	-54.28	230	4	peak
2	161.9200	-65.63	1.5	1.61	-65.52	-13.00	-52.52	230	35	peak
3	330.7000	-68.94	2.16	5.71	-65.39	-13.00	-52.39	230	55	peak
4	448.0700	-71.97	2.58	5.74	-68.81	-13.00	-55.81	230	180	peak
5	529.5500	-74.44	2.75	6	-71.19	-13.00	-58.19	230	160	peak
6	637.2200	-76.88	3	6.15	-73.73	-13.00	-60.73	230	167	peak



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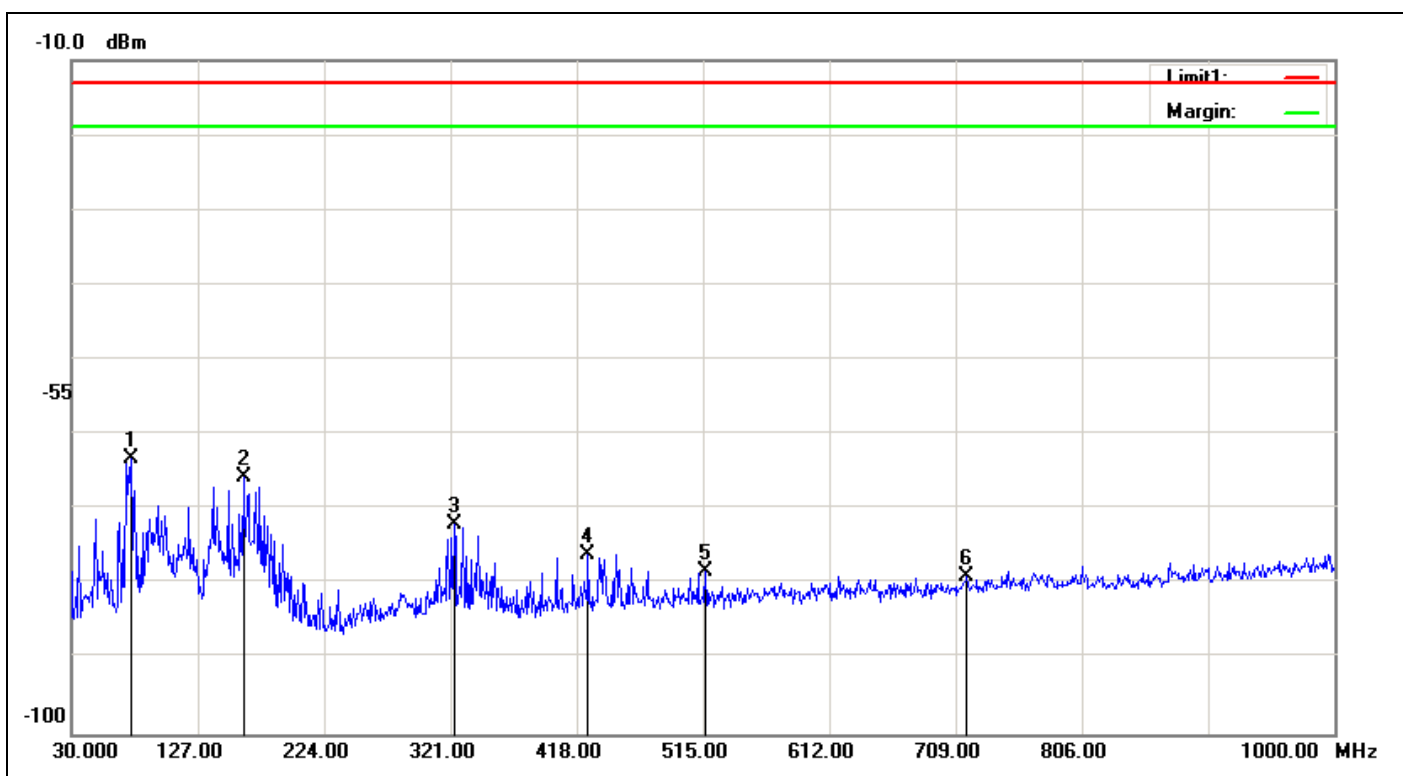
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:</b> 2014/8/20	<b>Time:</b> 上午 10:52:23
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-661</b>		

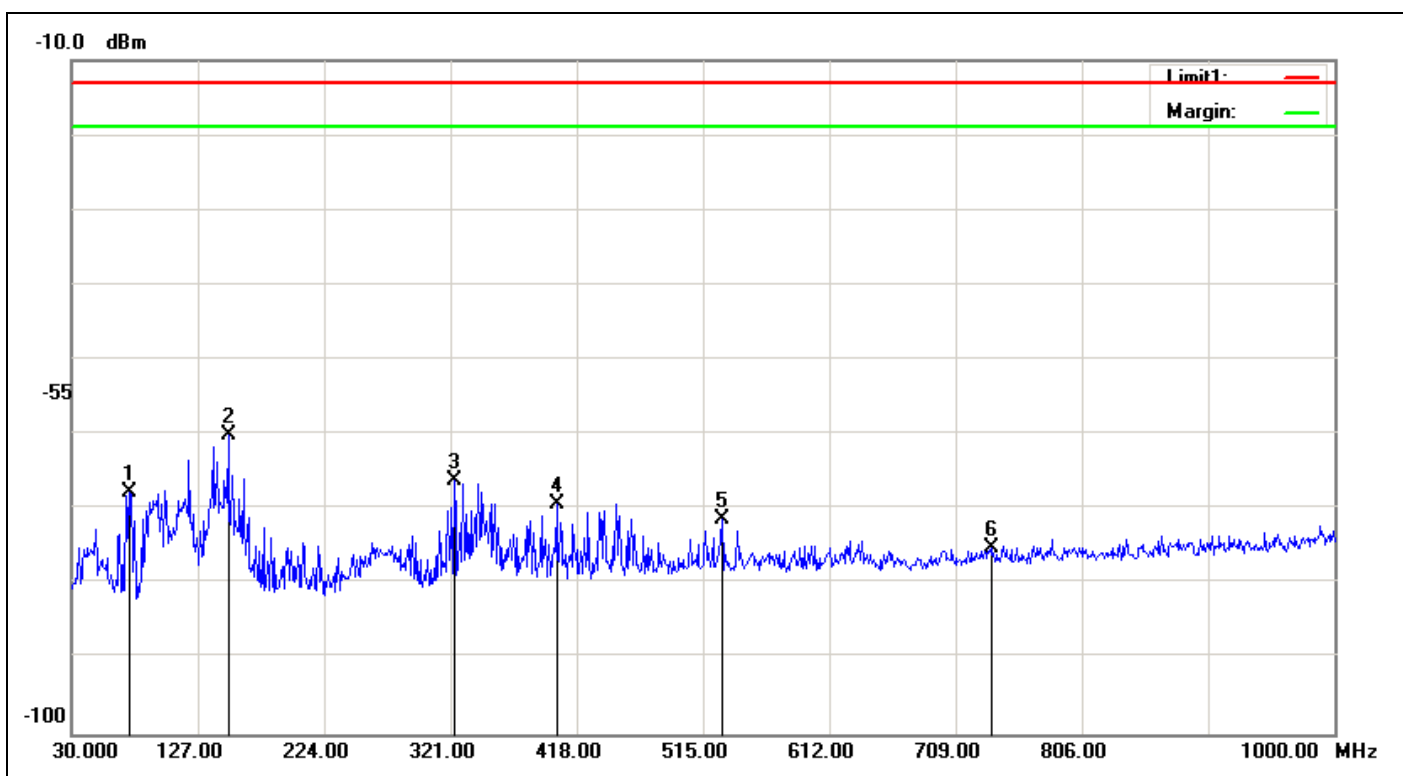


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-61.27	1.01	-0.94	-63.22	-13.00	-50.22	230	112	peak
2	161.9200	-65.86	1.5	1.61	-65.75	-13.00	-52.75	230	161	peak
3	323.9100	-75.59	2.17	5.7	-72.06	-13.00	-59.06	230	256	peak
4	426.7300	-79.33	2.48	5.8	-76.01	-13.00	-63.01	230	21	peak
5	516.9400	-81.62	2.7	6.07	-78.25	-13.00	-65.25	230	145	peak
6	717.7300	-82.19	3.16	6.44	-78.91	-13.00	-65.91	230	299	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:45:29
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	74.6200	-65.54	1	-1.11	-67.65	-13.00	-54.65	230	40	peak
2	150.2800	-59.45	1.43	0.71	-60.17	-13.00	-47.17	230	18	peak
3	323.9100	-69.72	2.17	5.7	-66.19	-13.00	-53.19	230	313	peak
4	402.4800	-72.82	2.41	5.97	-69.26	-13.00	-56.26	230	226	peak
5	529.5500	-74.5	2.75	6	-71.25	-13.00	-58.25	230	175	peak
6	736.1600	-78.19	3.2	6.23	-75.16	-13.00	-62.16	230	358	peak



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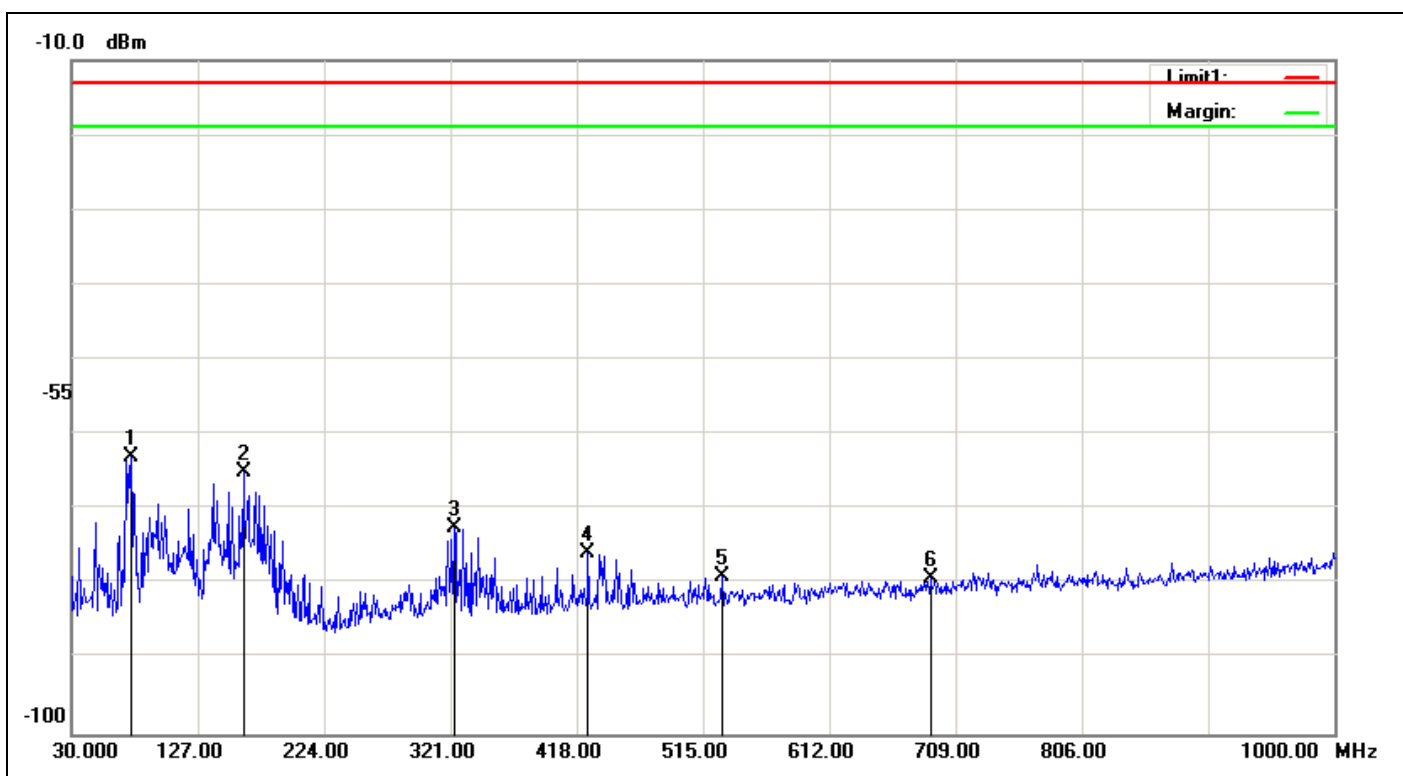
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Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:59:16
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



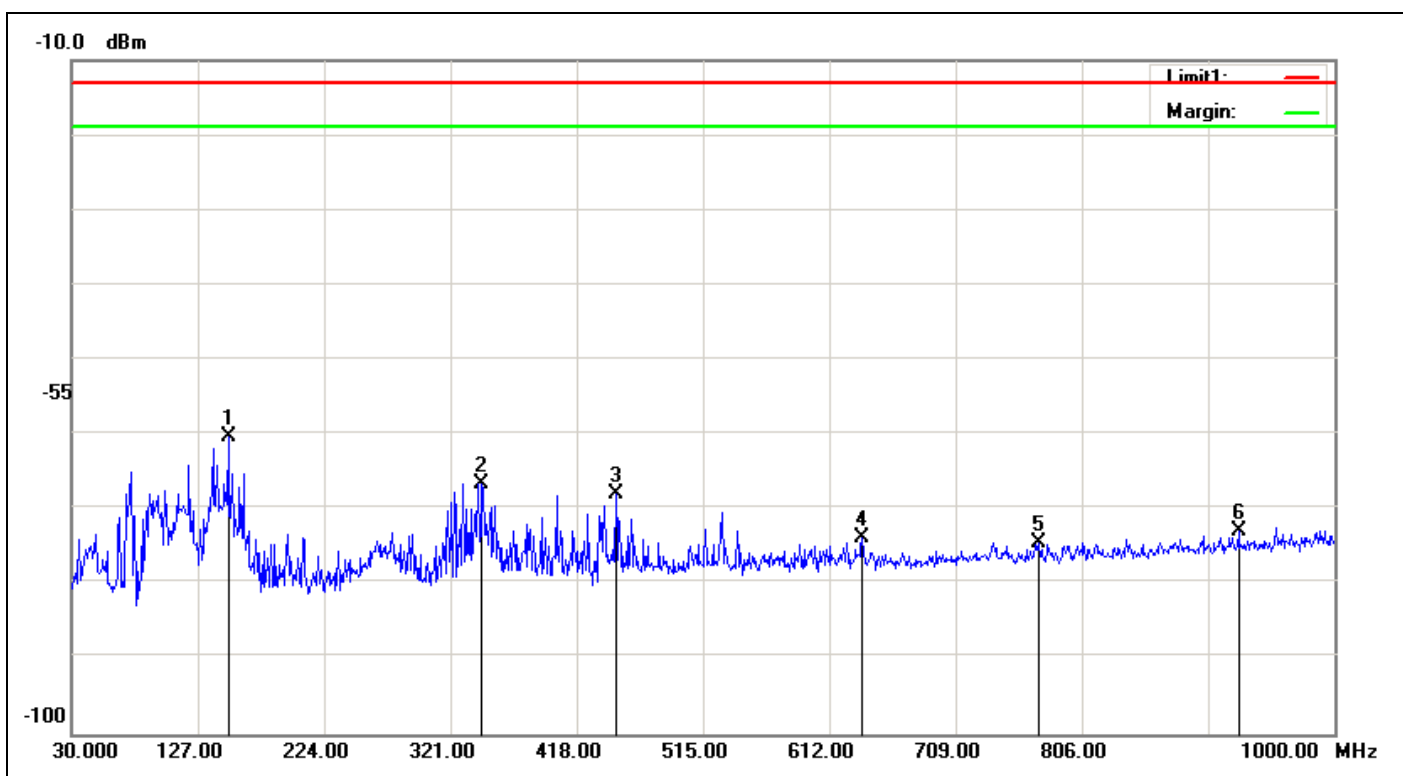
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-61.02	1.01	-0.94	-62.97	-13.00	-49.97	230	67	peak
2	161.9200	-65.2	1.5	1.61	-65.09	-13.00	-52.09	230	171	peak
3	323.9100	-75.94	2.17	5.7	-72.41	-13.00	-59.41	230	12	peak
4	426.7300	-79.14	2.48	5.8	-75.82	-13.00	-62.82	230	19	peak
5	529.5500	-82.3	2.75	6	-79.05	-13.00	-66.05	230	142	peak
6	689.6000	-82.51	3.13	6.5	-79.14	-13.00	-66.14	230	319	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 11:05:36
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	150.2800	-59.56	1.43	0.71	-60.28	-13.00	-47.28	230	19	peak
2	345.2500	-70.17	2.2	5.8	-66.57	-13.00	-53.57	230	196	peak
3	448.0700	-70.99	2.58	5.74	-67.83	-13.00	-54.83	230	165	peak
4	637.2200	-77.03	3	6.15	-73.88	-13.00	-60.88	230	71	peak
5	773.0200	-77.47	3.28	6.29	-74.46	-13.00	-61.46	230	318	peak
6	926.2800	-75.78	3.59	6.48	-72.89	-13.00	-59.89	230	303	peak



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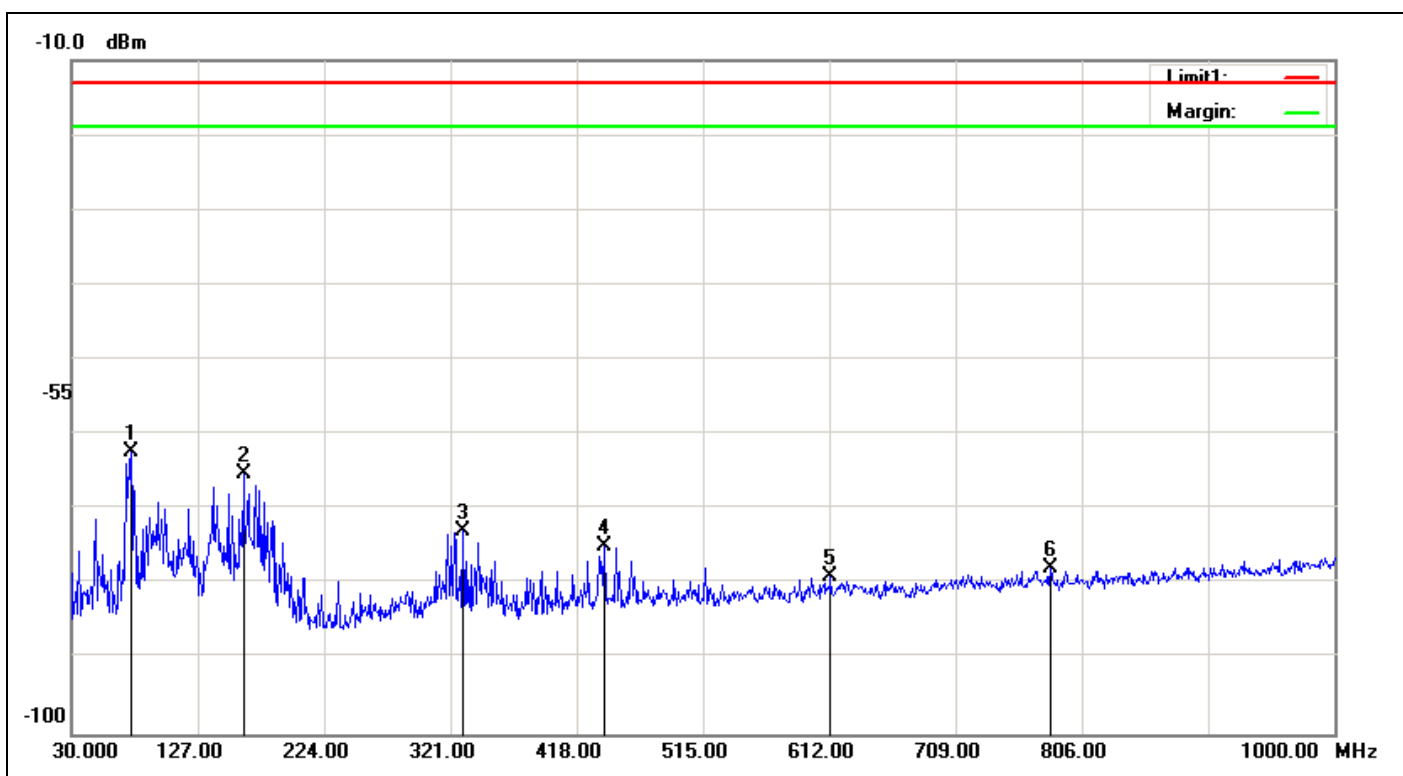
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:27:34
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

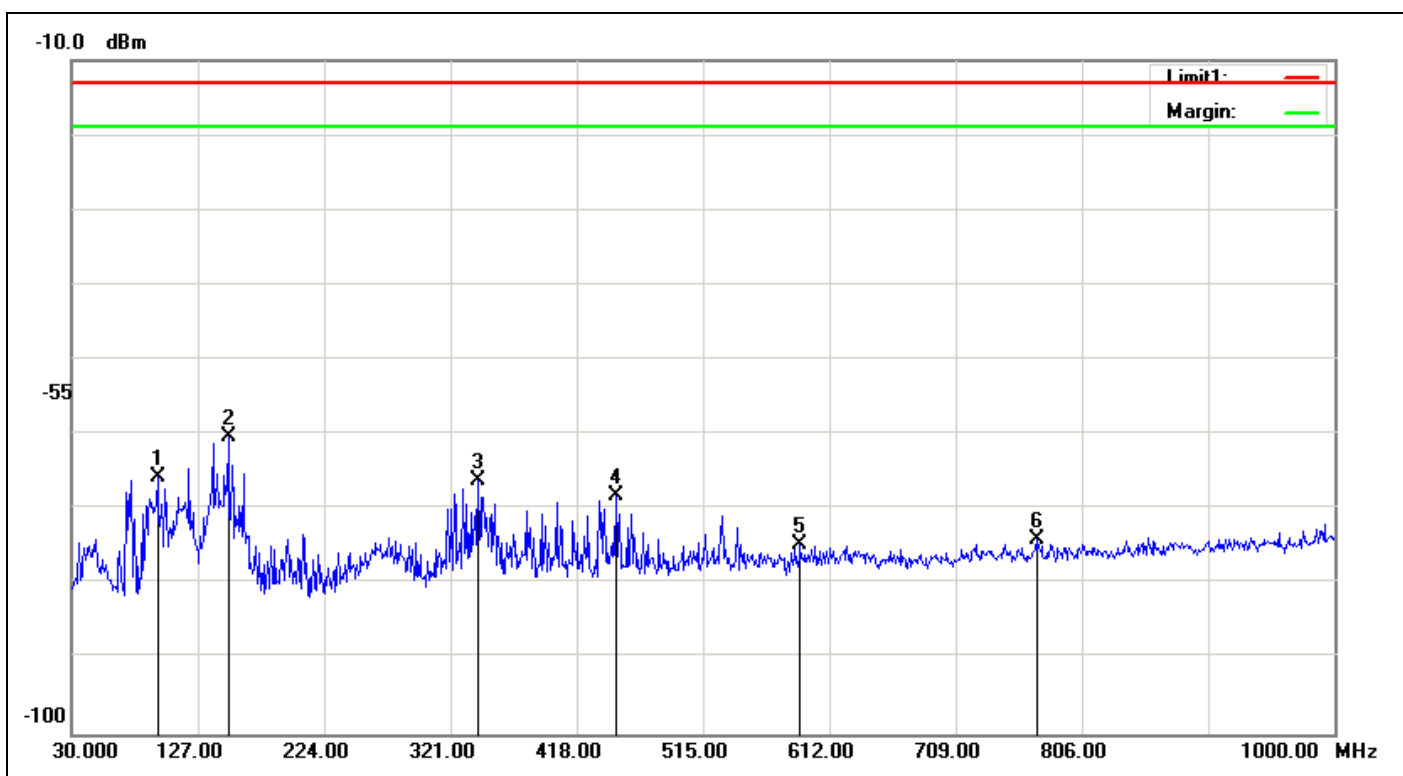


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.34	1.01	-0.94	-62.29	-13.00	-49.29	230	85	peak
2	161.9200	-65.35	1.5	1.61	-65.24	-13.00	-52.24	230	154	peak
3	330.7000	-76.39	2.16	5.71	-72.84	-13.00	-59.84	230	85	peak
4	439.3400	-78.26	2.53	5.9	-74.89	-13.00	-61.89	230	32	peak
5	612.9700	-82.3	2.94	6.23	-79.01	-13.00	-66.01	230	180	peak
6	781.7500	-80.64	3.31	6.13	-77.82	-13.00	-64.82	230	157	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:36:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

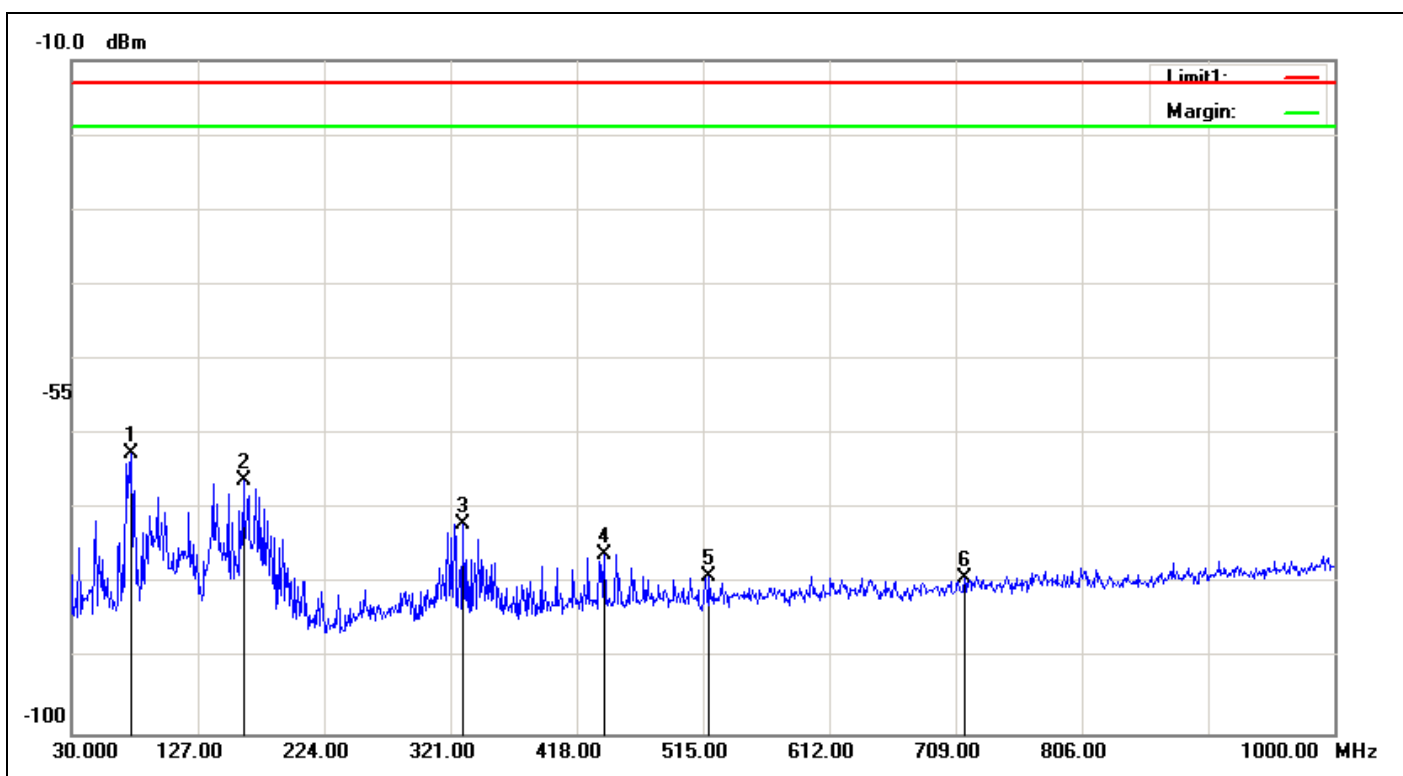


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	95.9600	-64.92	1.13	0.26	-65.79	-13.00	-52.79	230	19	peak
2	150.2800	-59.53	1.43	0.71	-60.25	-13.00	-47.25	230	25	peak
3	342.3400	-69.74	2.18	5.8	-66.12	-13.00	-53.12	230	332	peak
4	448.0700	-71.42	2.58	5.74	-68.26	-13.00	-55.26	230	158	peak
5	589.6900	-78.06	2.89	6.19	-74.76	-13.00	-61.76	230	142	peak
6	771.0800	-77.14	3.27	6.35	-74.06	-13.00	-61.06	230	338	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:50:16
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		

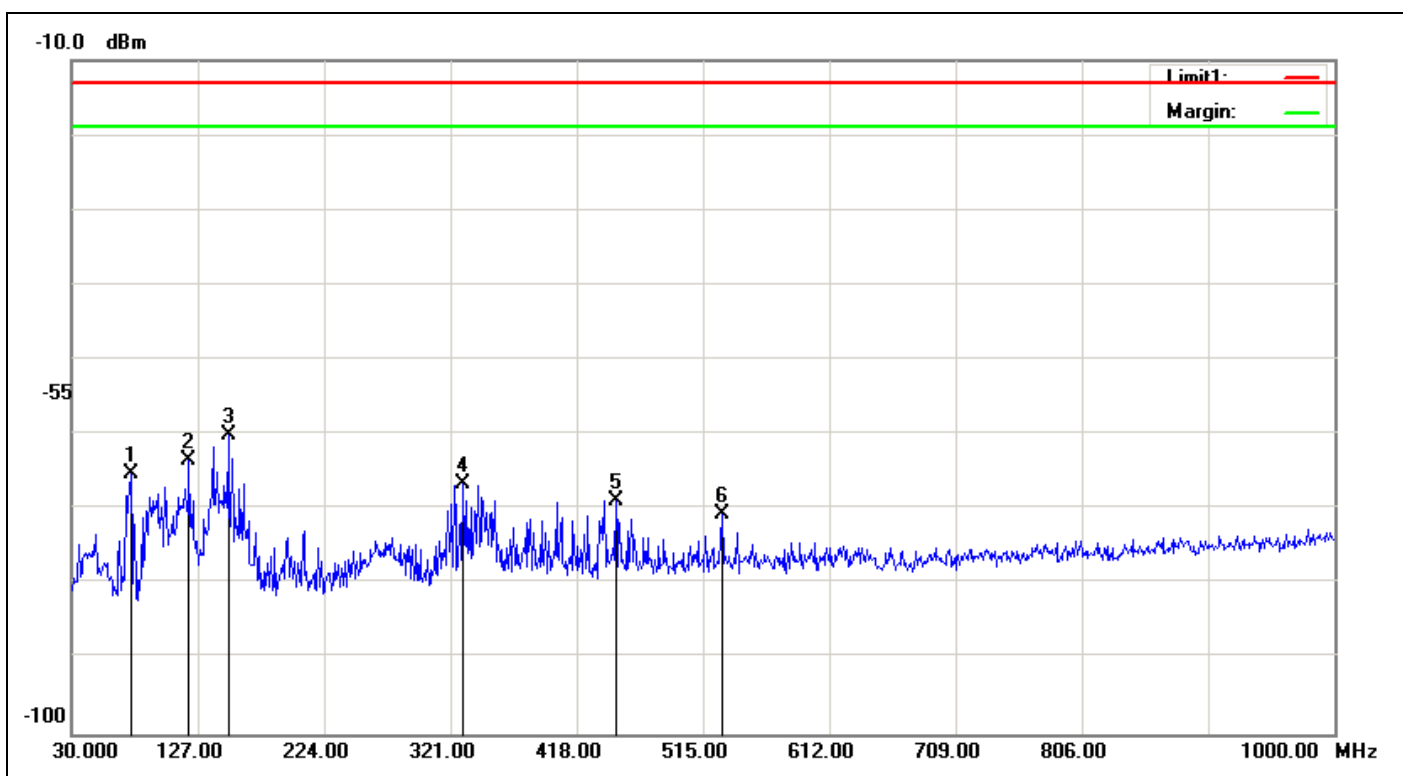


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.66	1.01	-0.94	-62.61	-13.00	-49.61	230	112	peak
2	161.9200	-66.2	1.5	1.61	-66.09	-13.00	-53.09	230	152	peak
3	330.7000	-75.54	2.16	5.71	-71.99	-13.00	-58.99	230	109	peak
4	439.3400	-79.46	2.53	5.9	-76.09	-13.00	-63.09	230	22	peak
5	519.8500	-82.38	2.7	6.1	-78.98	-13.00	-65.98	230	139	peak
6	715.7900	-82.54	3.16	6.41	-79.29	-13.00	-66.29	230	62	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:43:20
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-63.22	1.01	-0.94	-65.17	-13.00	-52.17	230	59	peak
2	120.2100	-60.13	1.27	-2.06	-63.46	-13.00	-50.46	230	206	peak
3	150.2800	-59.37	1.43	0.71	-60.09	-13.00	-47.09	230	23	peak
4	330.7000	-70.08	2.16	5.71	-66.53	-13.00	-53.53	230	324	peak
5	448.0700	-71.9	2.58	5.74	-68.74	-13.00	-55.74	230	176	peak
6	529.5500	-73.81	2.75	6	-70.56	-13.00	-57.56	230	183	peak



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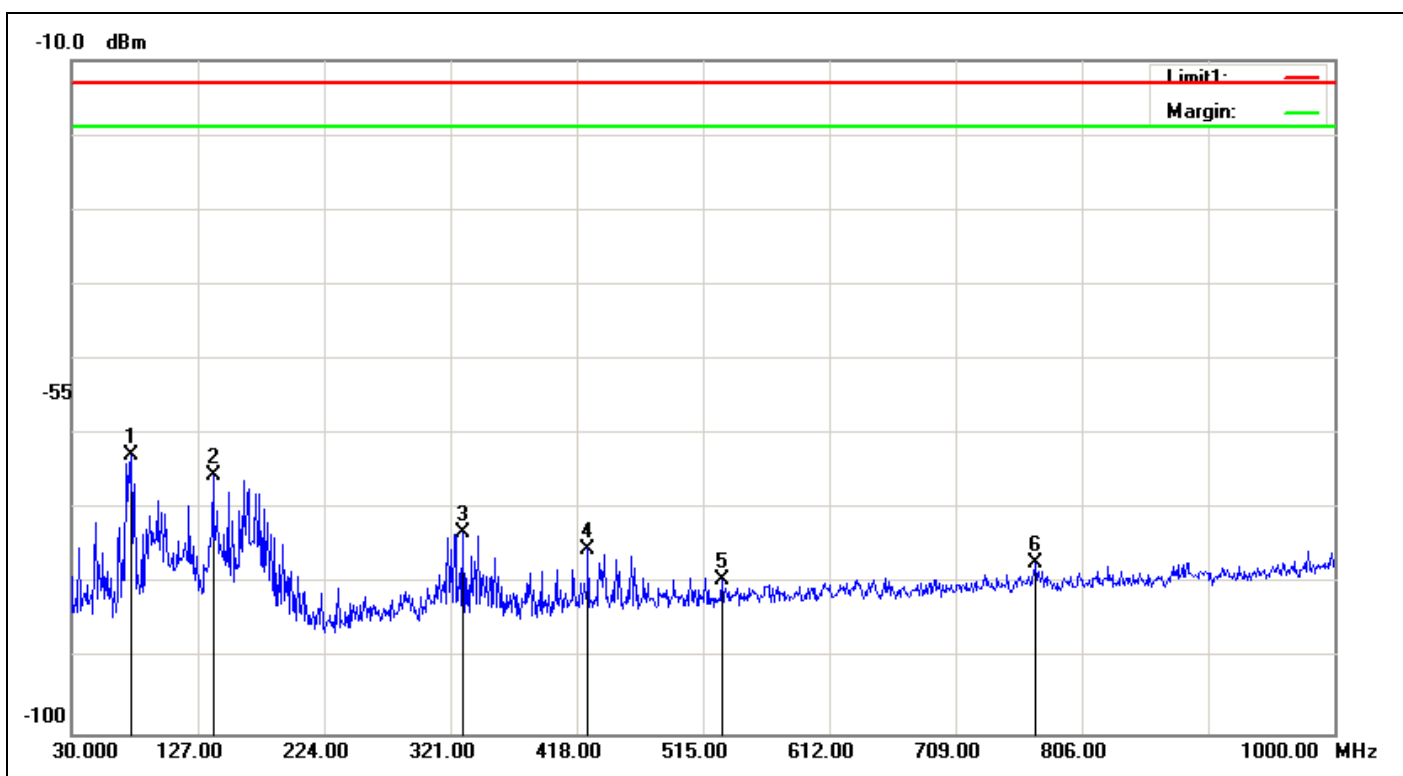
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Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:56:47
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.81	1.01	-0.94	-62.76	-13.00	-49.76	230	124	peak
2	138.6400	-63.68	1.39	-0.38	-65.45	-13.00	-52.45	230	275	peak
3	330.7000	-76.71	2.16	5.71	-73.16	-13.00	-60.16	230	114	peak
4	426.7300	-78.57	2.48	5.8	-75.25	-13.00	-62.25	230	0	peak
5	529.5500	-82.76	2.75	6	-79.51	-13.00	-66.51	230	151	peak
6	770.1100	-80.37	3.27	6.38	-77.26	-13.00	-64.26	230	30	peak



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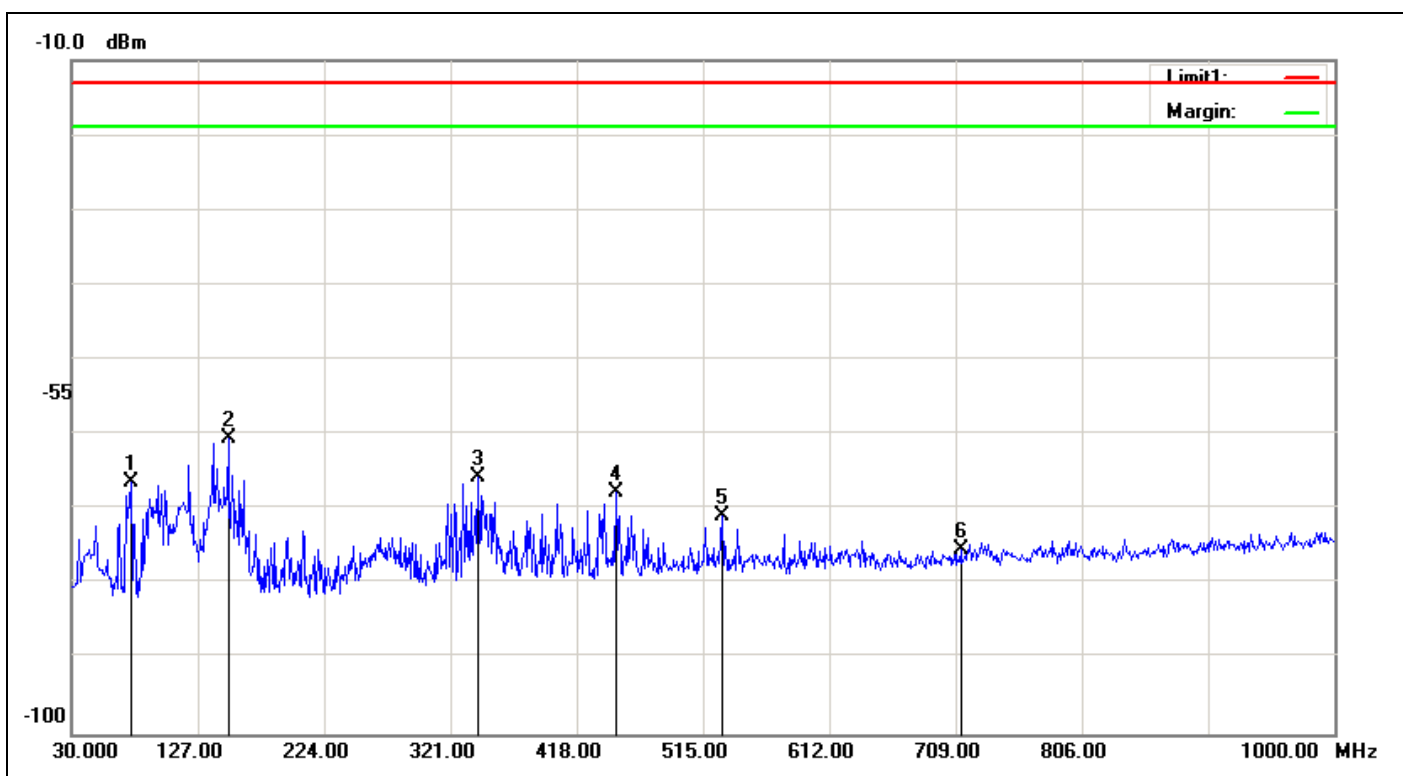
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:上午 11:03:27</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		

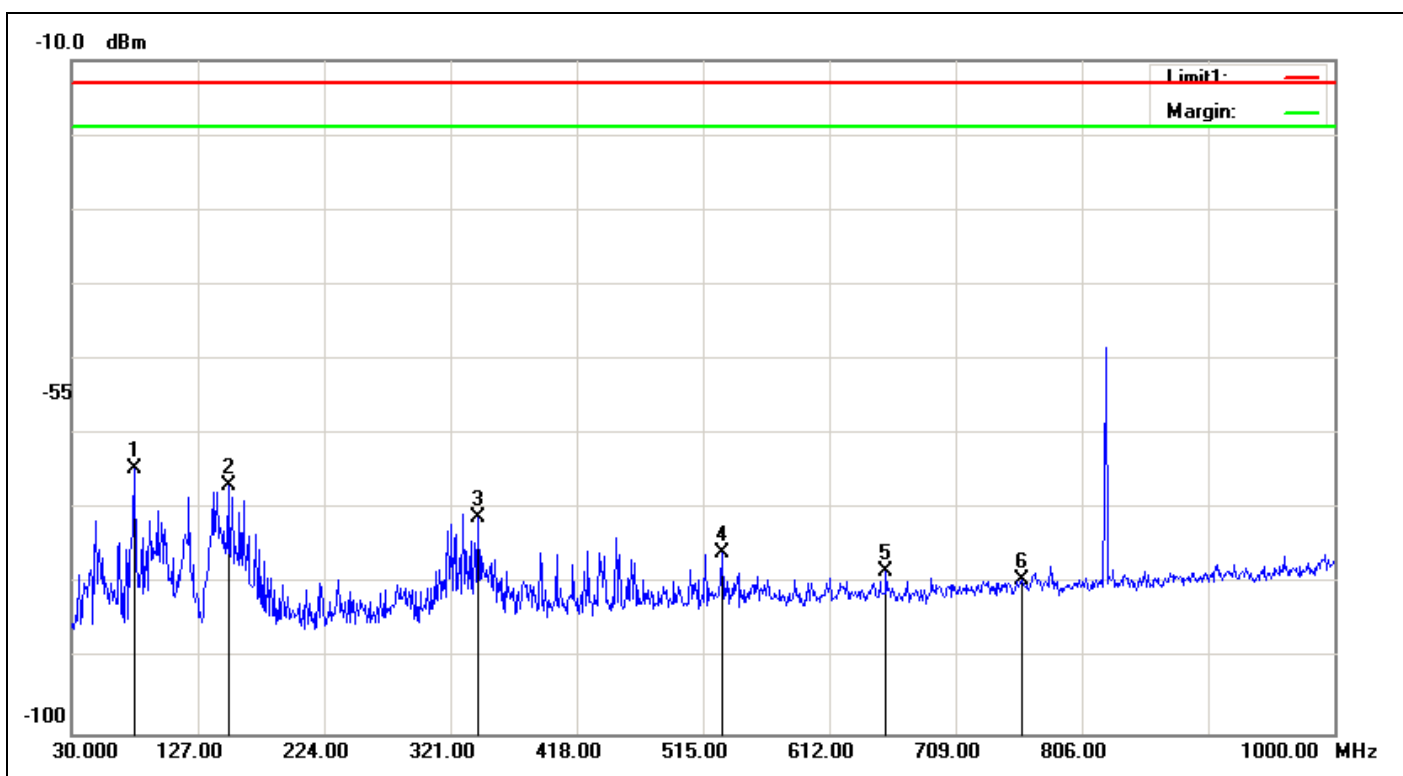


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-64.52	1.01	-0.94	-66.47	-13.00	-53.47	230	60	peak
2	150.2800	-59.8	1.43	0.71	-60.52	-13.00	-47.52	230	25	peak
3	342.3400	-69.3	2.18	5.8	-65.68	-13.00	-52.68	230	63	peak
4	448.0700	-70.78	2.58	5.74	-67.62	-13.00	-54.62	230	162	peak
5	529.5500	-74.21	2.75	6	-70.96	-13.00	-57.96	230	172	peak
6	712.8800	-78.51	3.15	6.36	-75.30	-13.00	-62.30	230	142	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:31:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-63.16	1.03	-0.43	-64.62	-13.00	-51.62	230	112	peak
2	150.2800	-66.02	1.43	0.71	-66.74	-13.00	-53.74	230	253	peak
3	342.3400	-74.71	2.18	5.8	-71.09	-13.00	-58.09	230	132	peak
4	529.5500	-79.09	2.75	6	-75.84	-13.00	-62.84	230	146	peak
5	655.6500	-81.51	3.04	6.3	-78.25	-13.00	-65.25	230	242	peak
6	760.4100	-82.4	3.22	6.3	-79.32	-13.00	-66.32	230	73	peak





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Compliance Certification Service Inc.

台北縣 248 五股鄉五工路 139 號

No.139, Wugong Rd., Wugu Township, Taipei Country 24891, Taiwan.

五股實驗室 Wugu LAB

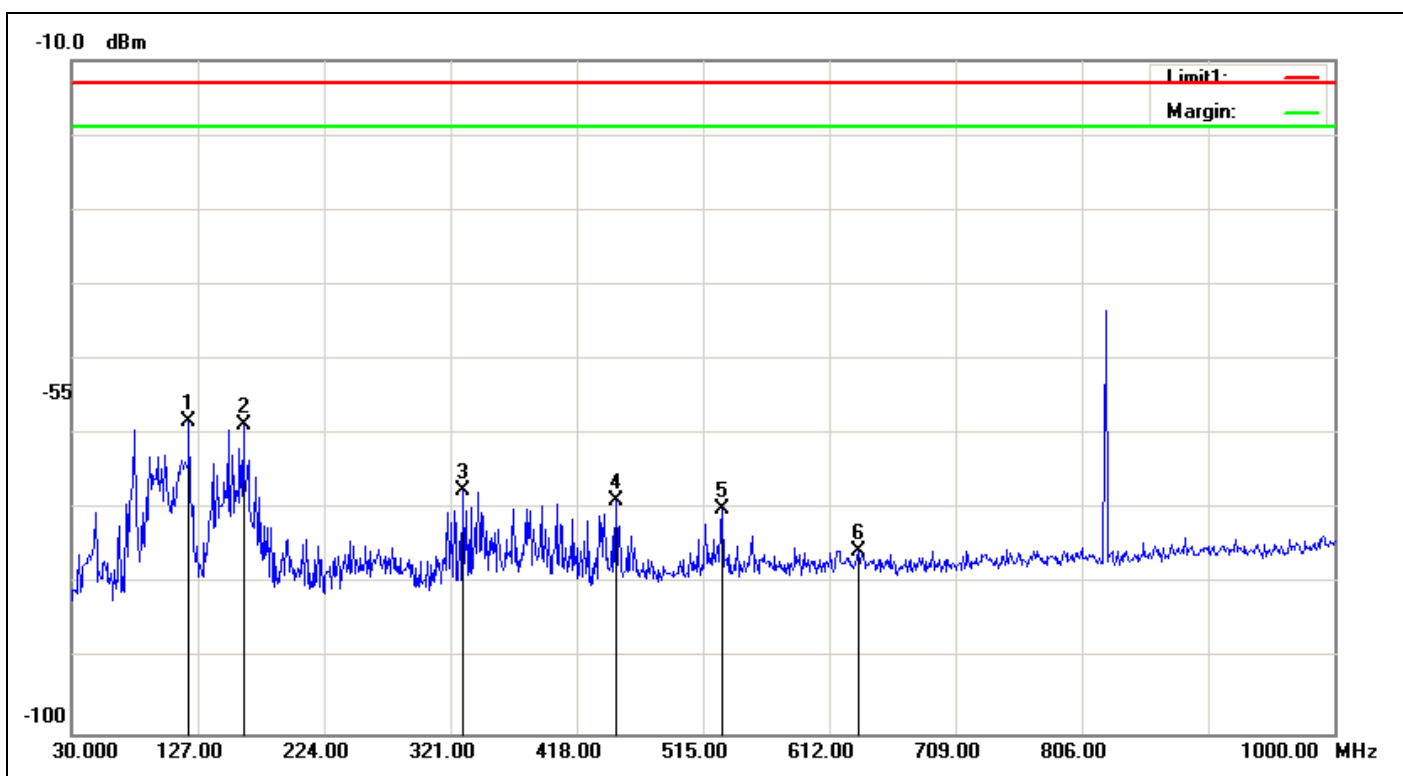
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:42:22
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	120.2100	-54.88	1.27	-2.06	-58.21	-13.00	-45.21	230	206	peak
2	161.9200	-58.8	1.5	1.61	-58.69	-13.00	-45.69	230	164	peak
3	330.7000	-71.03	2.16	5.71	-67.48	-13.00	-54.48	230	189	peak
4	448.0700	-72.1	2.58	5.74	-68.94	-13.00	-55.94	230	183	peak
5	529.5500	-73.27	2.75	6	-70.02	-13.00	-57.02	230	174	peak
6	634.3100	-78.81	2.99	6.18	-75.62	-13.00	-62.62	230	0	peak



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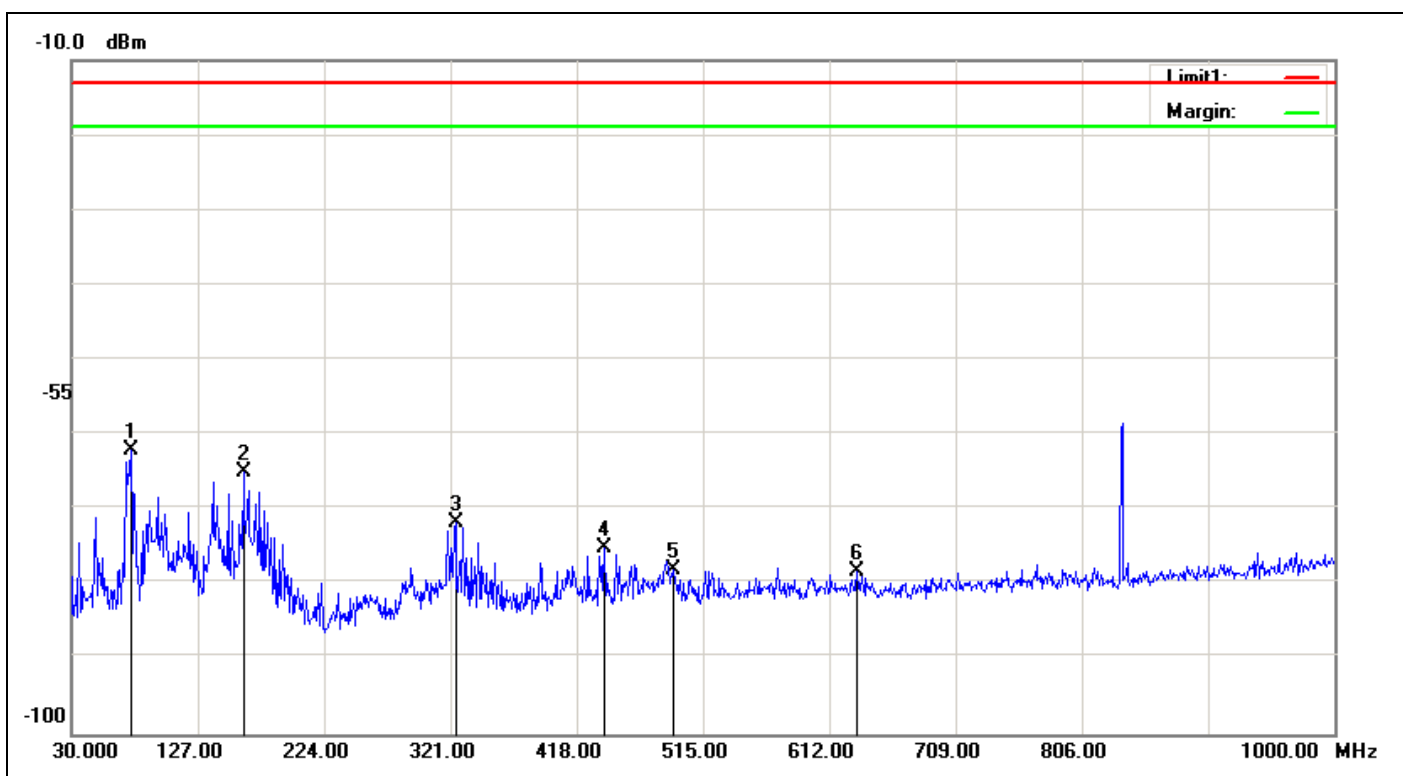
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:18:17
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

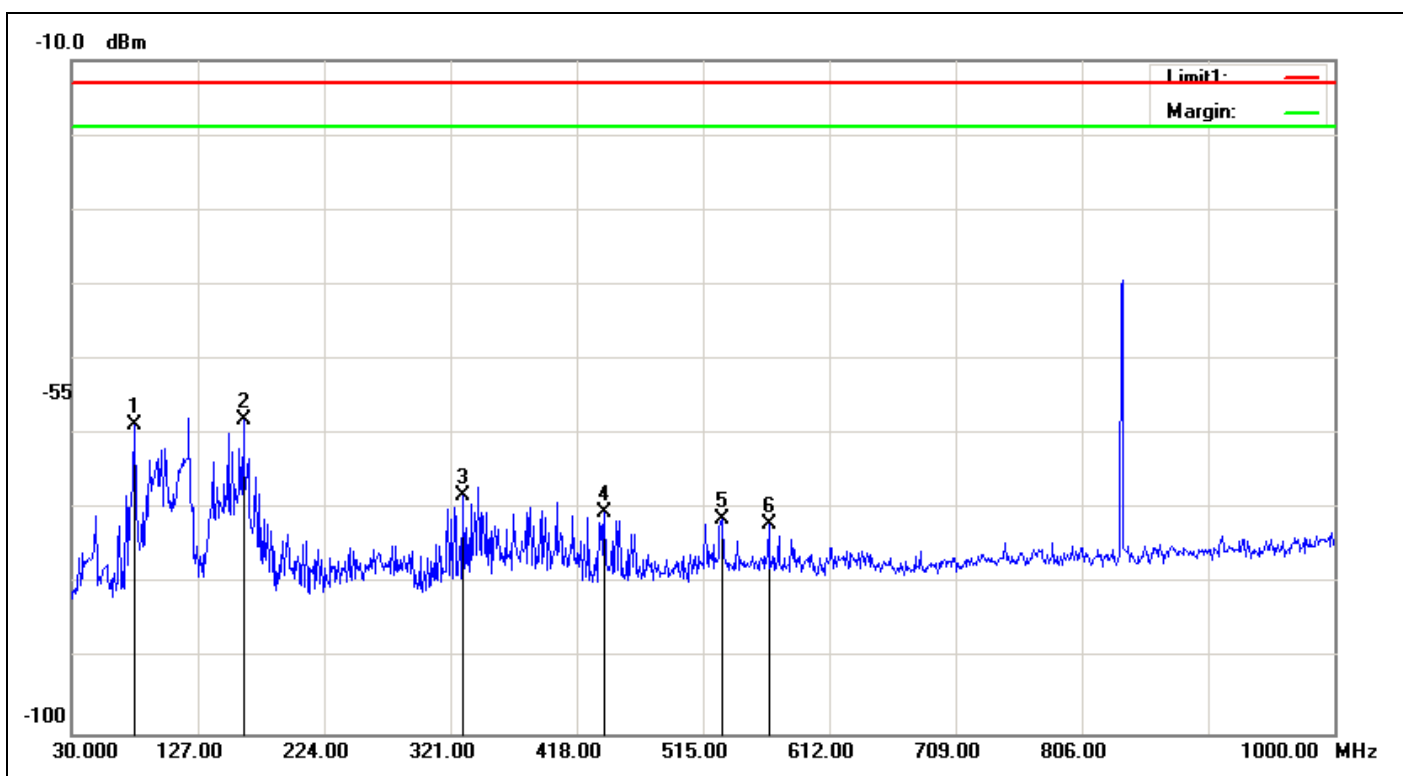


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.15	1.01	-0.94	-62.10	-13.00	-49.10	230	96	peak
2	161.9200	-65.03	1.5	1.61	-64.92	-13.00	-51.92	230	156	peak
3	324.8800	-75.39	2.17	5.7	-71.86	-13.00	-58.86	230	96	peak
4	439.3400	-78.59	2.53	5.9	-75.22	-13.00	-62.22	230	19	peak
5	492.6900	-81.21	2.68	5.82	-78.07	-13.00	-65.07	230	202	peak
6	633.3400	-81.38	2.99	6.18	-78.19	-13.00	-65.19	230	111	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:44:39
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		

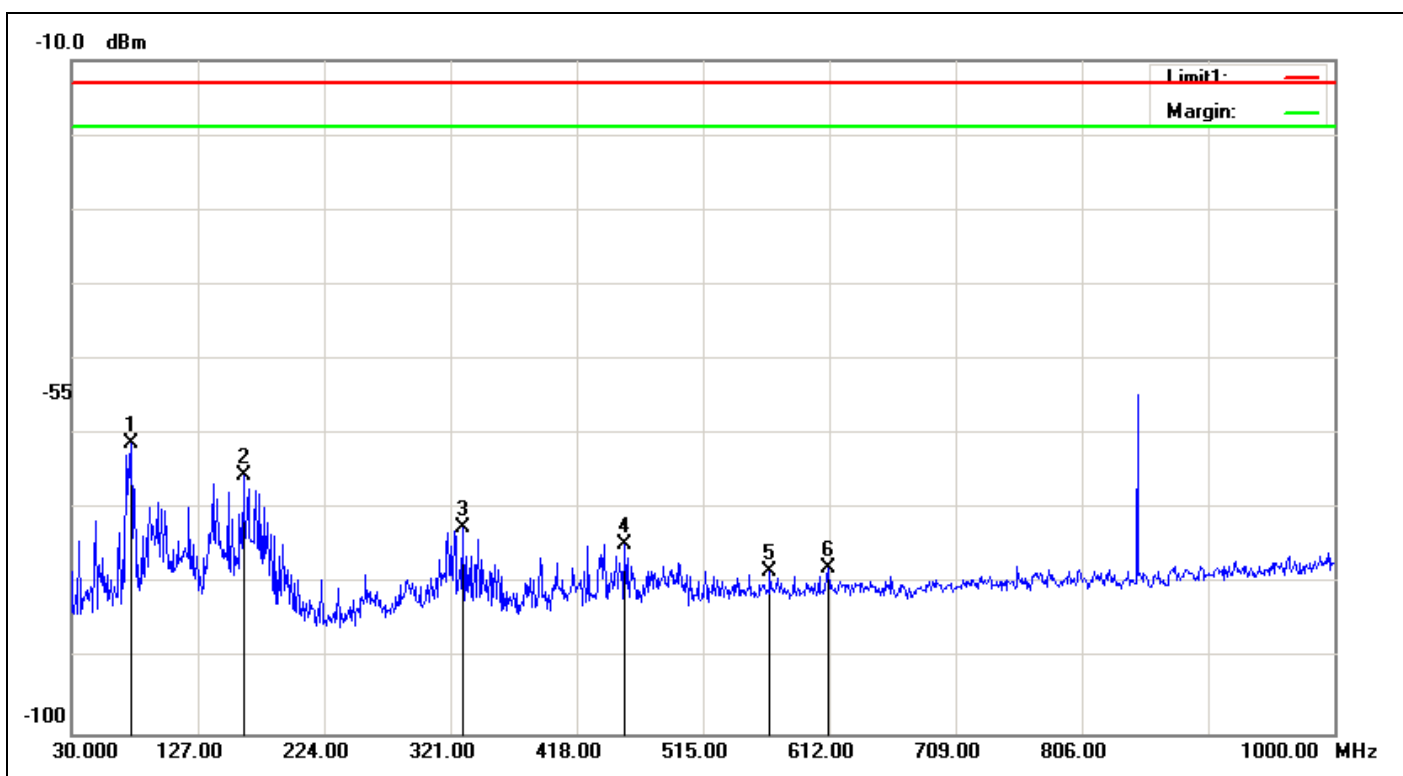


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-57.36	1.03	-0.43	-58.82	-13.00	-45.82	230	186	peak
2	161.9200	-58.25	1.5	1.61	-58.14	-13.00	-45.14	230	164	peak
3	330.7000	-71.73	2.16	5.71	-68.18	-13.00	-55.18	230	200	peak
4	439.3400	-73.86	2.53	5.9	-70.49	-13.00	-57.49	230	161	peak
5	529.5500	-74.53	2.75	6	-71.28	-13.00	-58.28	230	153	peak
6	565.4400	-75.12	2.86	6.04	-71.94	-13.00	-58.94	230	259	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:00:14
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		

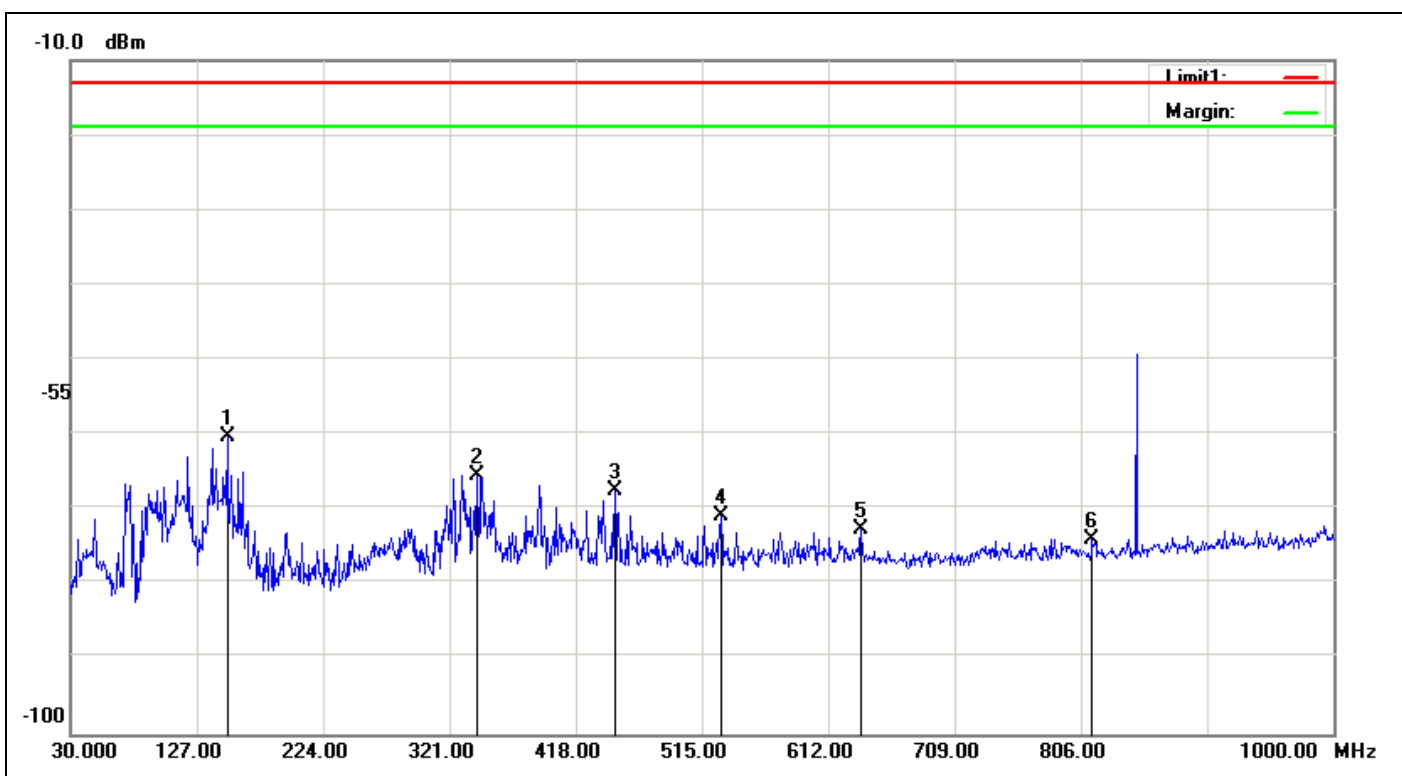


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-59.31	1.01	-0.94	-61.26	-13.00	-48.26	230	106	peak
2	161.9200	-65.51	1.5	1.61	-65.40	-13.00	-52.40	230	167	peak
3	330.7000	-75.95	2.16	5.71	-72.40	-13.00	-59.40	230	64	peak
4	454.8600	-77.81	2.6	5.8	-74.61	-13.00	-61.61	230	128	peak
5	566.4100	-81.44	2.86	6.06	-78.24	-13.00	-65.24	230	237	peak
6	611.0300	-81.21	2.94	6.27	-77.88	-13.00	-64.88	230	231	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:11:46
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		

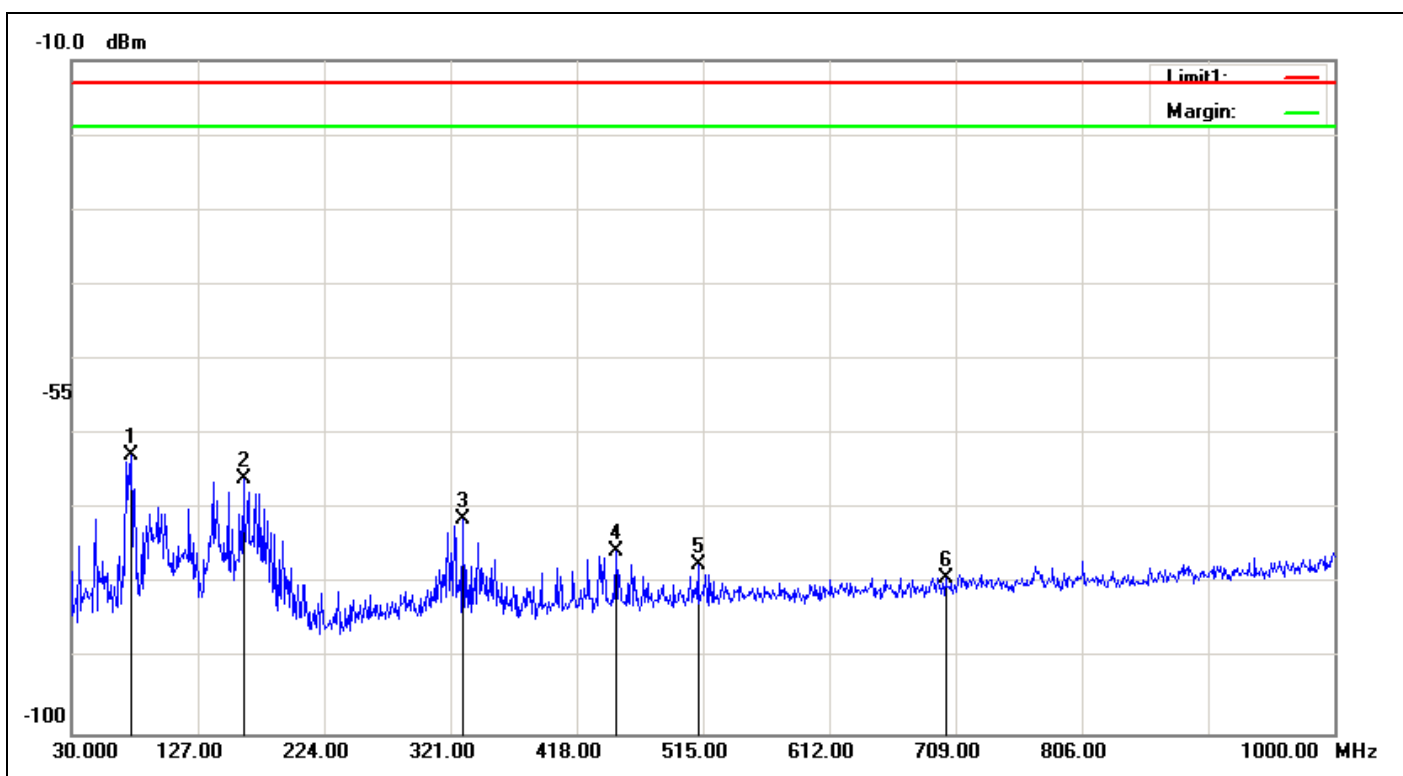


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	150.2800	-59.54	1.43	0.71	-60.26	-13.00	-47.26	230	37	peak
2	342.3400	-69.02	2.18	5.8	-65.40	-13.00	-52.40	230	336	peak
3	448.0700	-70.72	2.58	5.74	-67.56	-13.00	-54.56	230	178	peak
4	529.5500	-74.13	2.75	6	-70.88	-13.00	-57.88	230	182	peak
5	637.2200	-75.9	3	6.15	-72.75	-13.00	-59.75	230	82	peak
6	814.7300	-76.74	3.36	6.2	-73.90	-13.00	-60.90	230	290	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:29:40
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

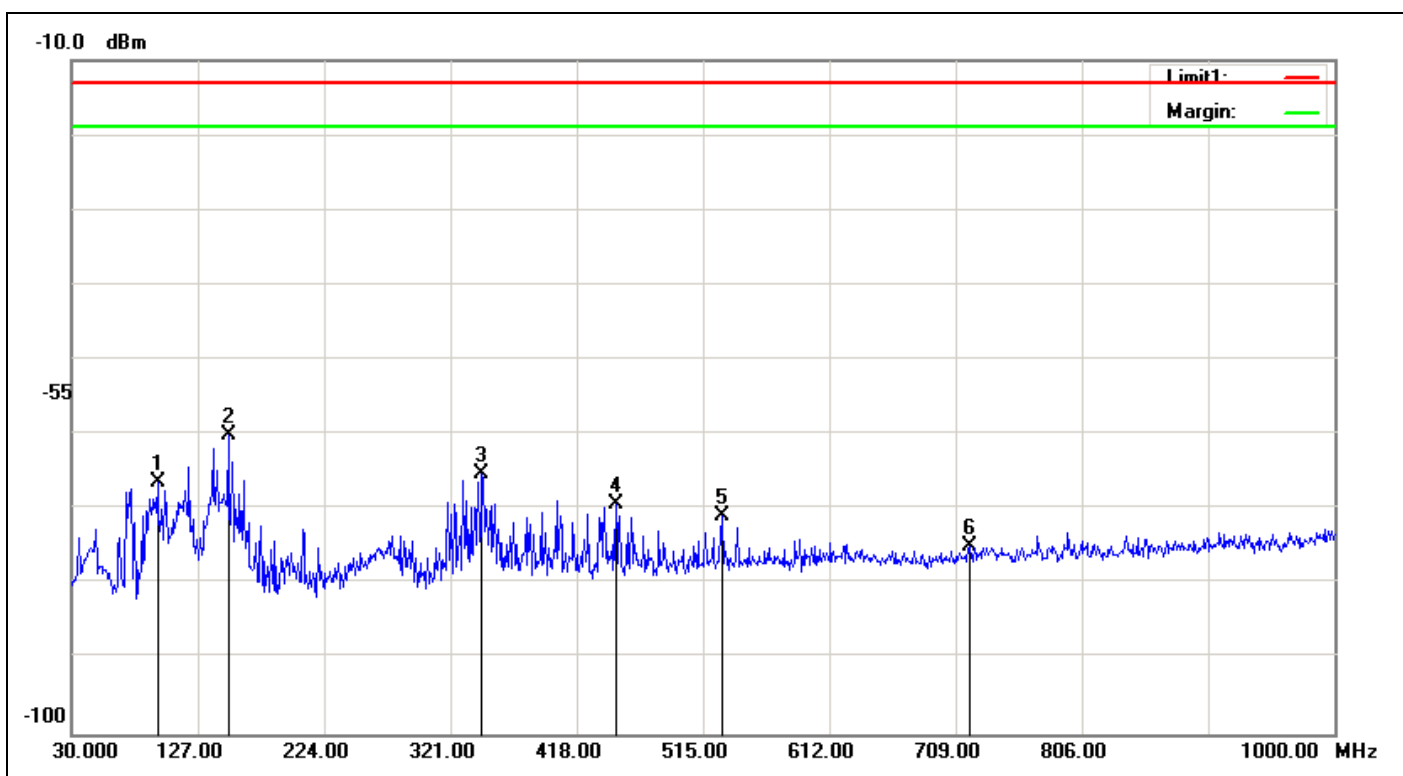


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.74	1.01	-0.94	-62.69	-13.00	-49.69	230	72	peak
2	161.9200	-66.07	1.5	1.61	-65.96	-13.00	-52.96	230	164	peak
3	330.7000	-74.79	2.16	5.71	-71.24	-13.00	-58.24	230	118	peak
4	448.0700	-78.84	2.58	5.74	-75.68	-13.00	-62.68	230	26	peak
5	511.1200	-80.63	2.69	6.01	-77.31	-13.00	-64.31	230	43	peak
6	701.2400	-82.37	3.12	6.38	-79.11	-13.00	-66.11	230	206	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:34:44
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

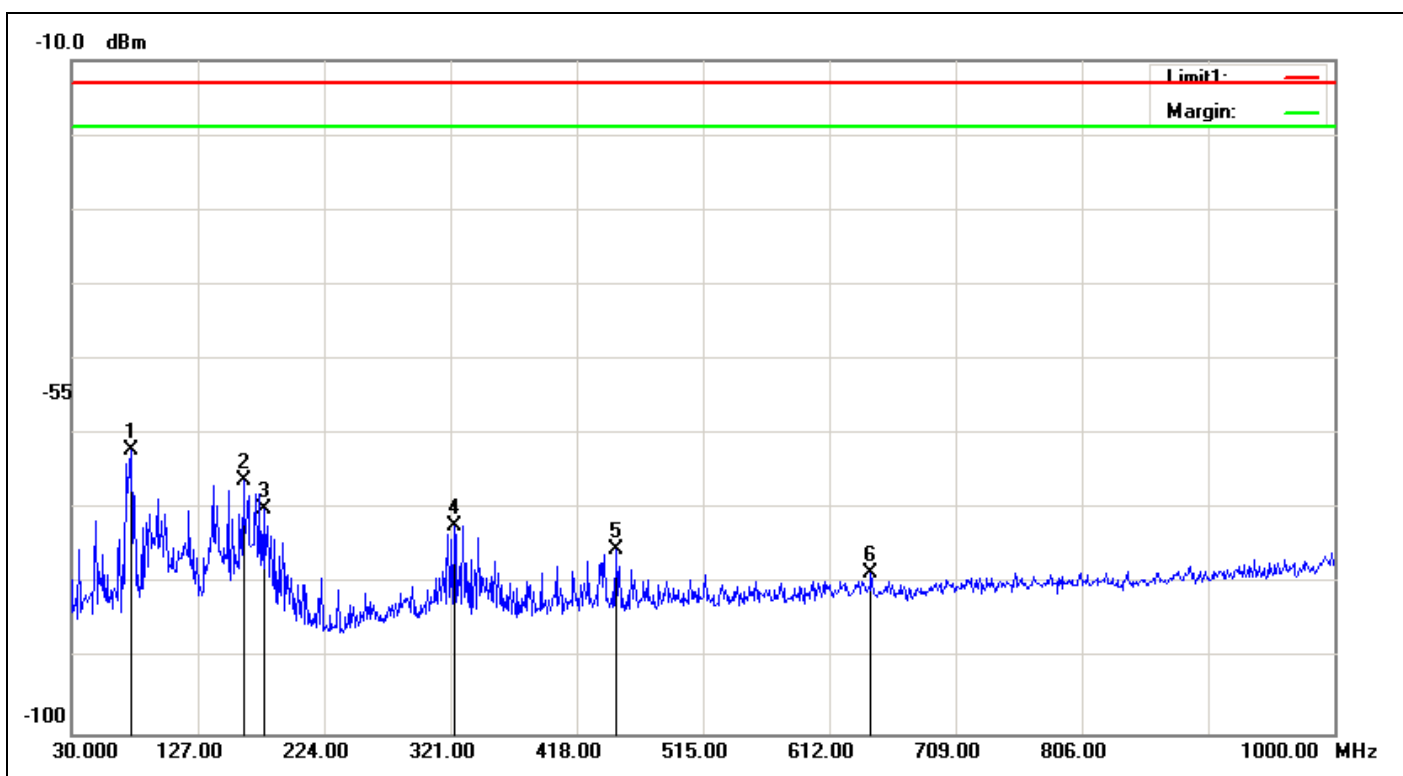


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	95.9600	-65.48	1.13	0.26	-66.35	-13.00	-53.35	230	34	peak
2	150.2800	-59.41	1.43	0.71	-60.13	-13.00	-47.13	230	18	peak
3	345.2500	-68.75	2.2	5.8	-65.15	-13.00	-52.15	230	200	peak
4	448.0700	-72.42	2.58	5.74	-69.26	-13.00	-56.26	230	186	peak
5	529.5500	-74.2	2.75	6	-70.95	-13.00	-57.95	230	173	peak
6	719.6700	-78.2	3.17	6.48	-74.89	-13.00	-61.89	230	167	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:48:09
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



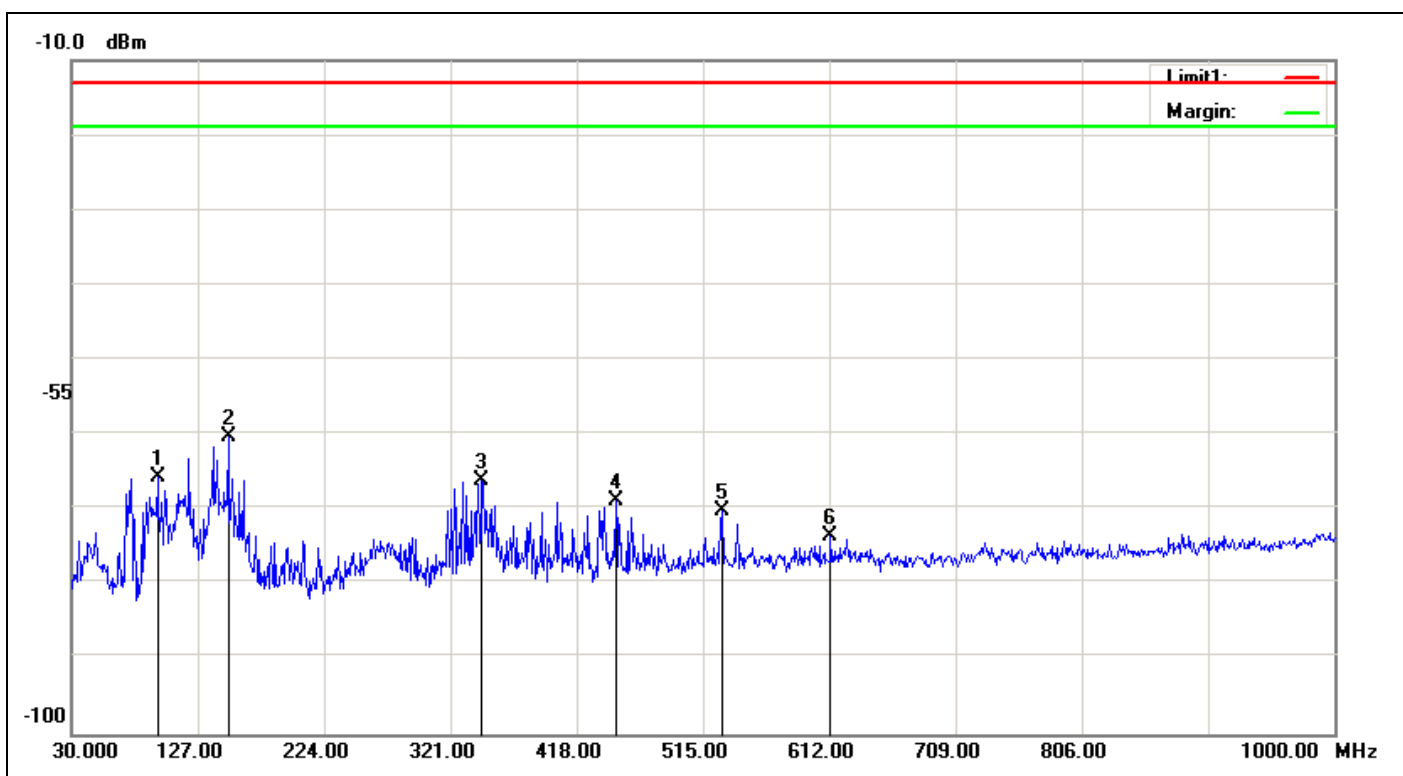
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-60.13	1.01	-0.94	-62.08	-13.00	-49.08	230	121	peak
2	161.9200	-66.24	1.5	1.61	-66.13	-13.00	-53.13	230	164	peak
3	177.4400	-71.66	1.6	3.31	-69.95	-13.00	-56.95	230	176	peak
4	323.9100	-75.79	2.17	5.7	-72.26	-13.00	-59.26	230	250	peak
5	448.0700	-78.61	2.58	5.74	-75.45	-13.00	-62.45	230	71	peak
6	644.0100	-81.76	3.02	6.17	-78.61	-13.00	-65.61	230	12	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:41:14
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		

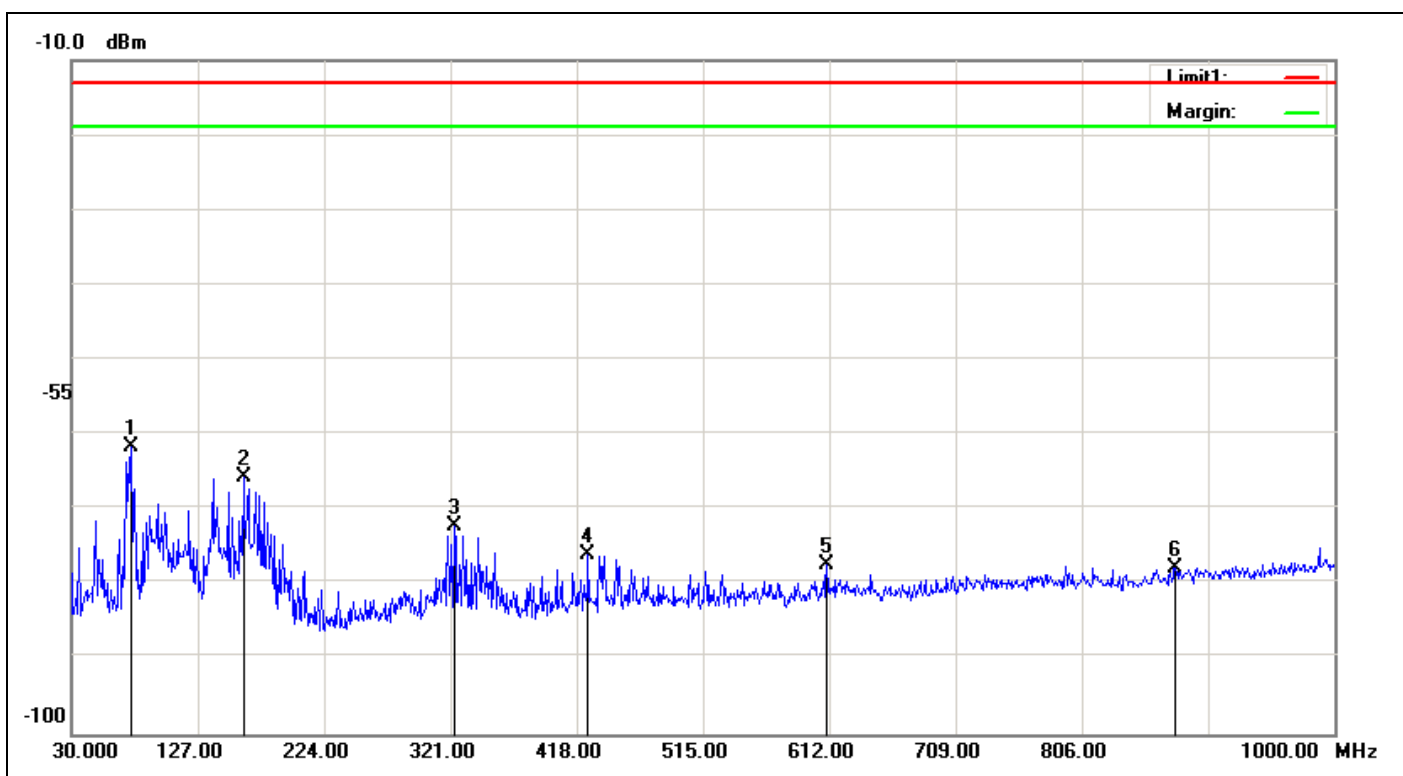


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	95.9600	-64.89	1.13	0.26	-65.76	-13.00	-52.76	230	12	peak
2	150.2800	-59.56	1.43	0.71	-60.28	-13.00	-47.28	230	21	peak
3	345.2500	-69.71	2.2	5.8	-66.11	-13.00	-53.11	230	205	peak
4	448.0700	-72.08	2.58	5.74	-68.92	-13.00	-55.92	230	165	peak
5	529.5500	-73.42	2.75	6	-70.17	-13.00	-57.17	230	181	peak
6	612.9700	-76.96	2.94	6.23	-73.67	-13.00	-60.67	230	224	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 10:54:41
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		

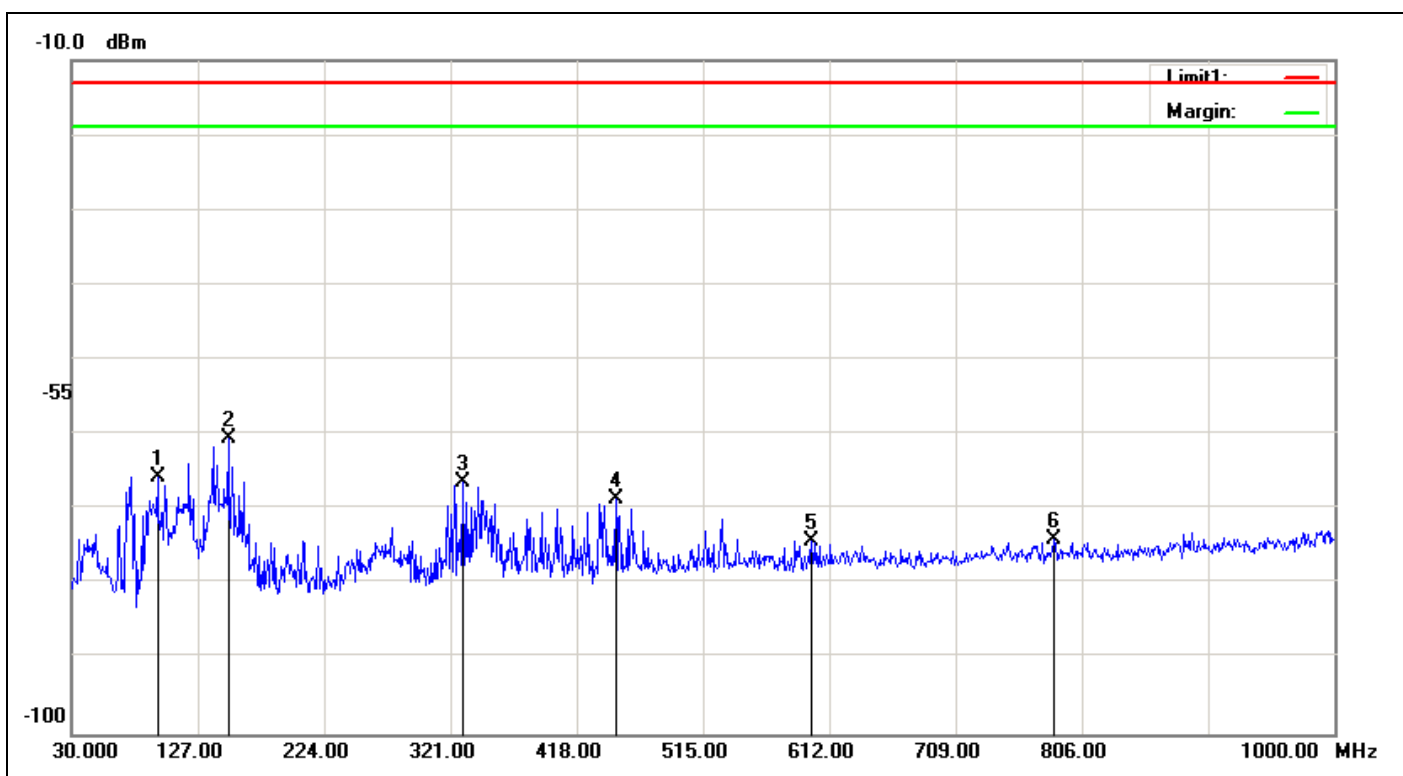


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	75.5900	-59.74	1.01	-0.94	-61.69	-13.00	-48.69	230	97	peak
2	161.9200	-65.9	1.5	1.61	-65.79	-13.00	-52.79	230	176	peak
3	323.9100	-75.75	2.17	5.7	-72.22	-13.00	-59.22	230	31	peak
4	426.7300	-79.33	2.48	5.8	-76.01	-13.00	-63.01	230	28	peak
5	610.0600	-80.68	2.94	6.29	-77.33	-13.00	-64.33	230	357	peak
6	877.7800	-81	3.46	6.64	-77.82	-13.00	-64.82	230	31	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:上午 11:01:22
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		

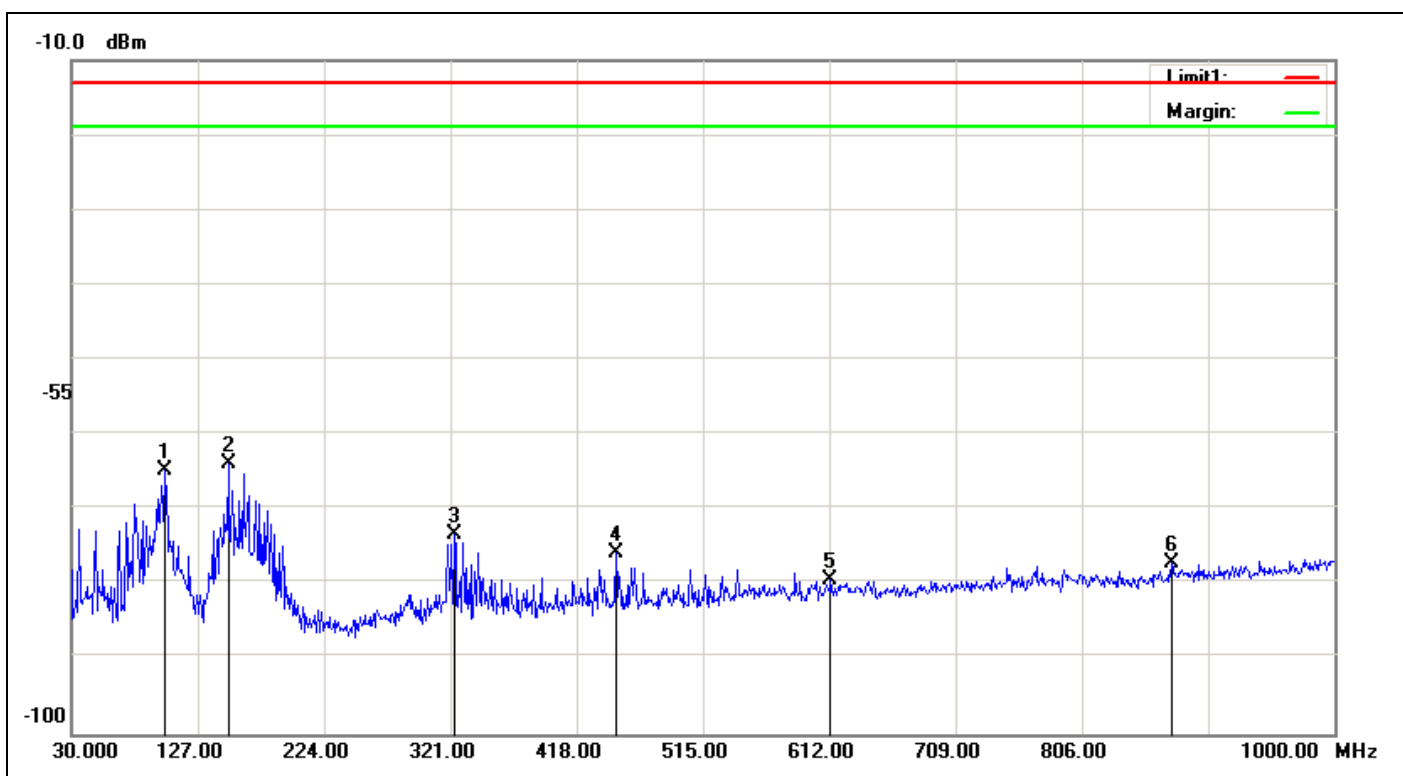


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	95.9600	-64.74	1.13	0.26	-65.61	-13.00	-52.61	230	11	peak
2	150.2800	-59.75	1.43	0.71	-60.47	-13.00	-47.47	230	30	peak
3	330.7000	-69.97	2.16	5.71	-66.42	-13.00	-53.42	230	319	peak
4	448.0700	-71.84	2.58	5.74	-68.68	-13.00	-55.68	230	177	peak
5	598.4200	-77.64	2.9	6.37	-74.17	-13.00	-61.17	230	24	peak
6	784.6600	-76.78	3.32	6.16	-73.94	-13.00	-60.94	230	54	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:05:42
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.09	1.16	-0.64	-64.89	-13.00	-51.89	230	246	peak
2	150.2800	-63.15	1.43	0.71	-63.87	-13.00	-50.87	230	127	peak
3	323.9100	-76.9	2.17	5.7	-73.37	-13.00	-60.37	230	0	peak
4	448.0700	-79.07	2.58	5.74	-75.91	-13.00	-62.91	230	153	peak
5	612.9700	-82.65	2.94	6.23	-79.36	-13.00	-66.36	230	240	peak
6	874.8700	-80.29	3.45	6.6	-77.14	-13.00	-64.14	230	9	peak



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五股實驗室 Wugu LAB

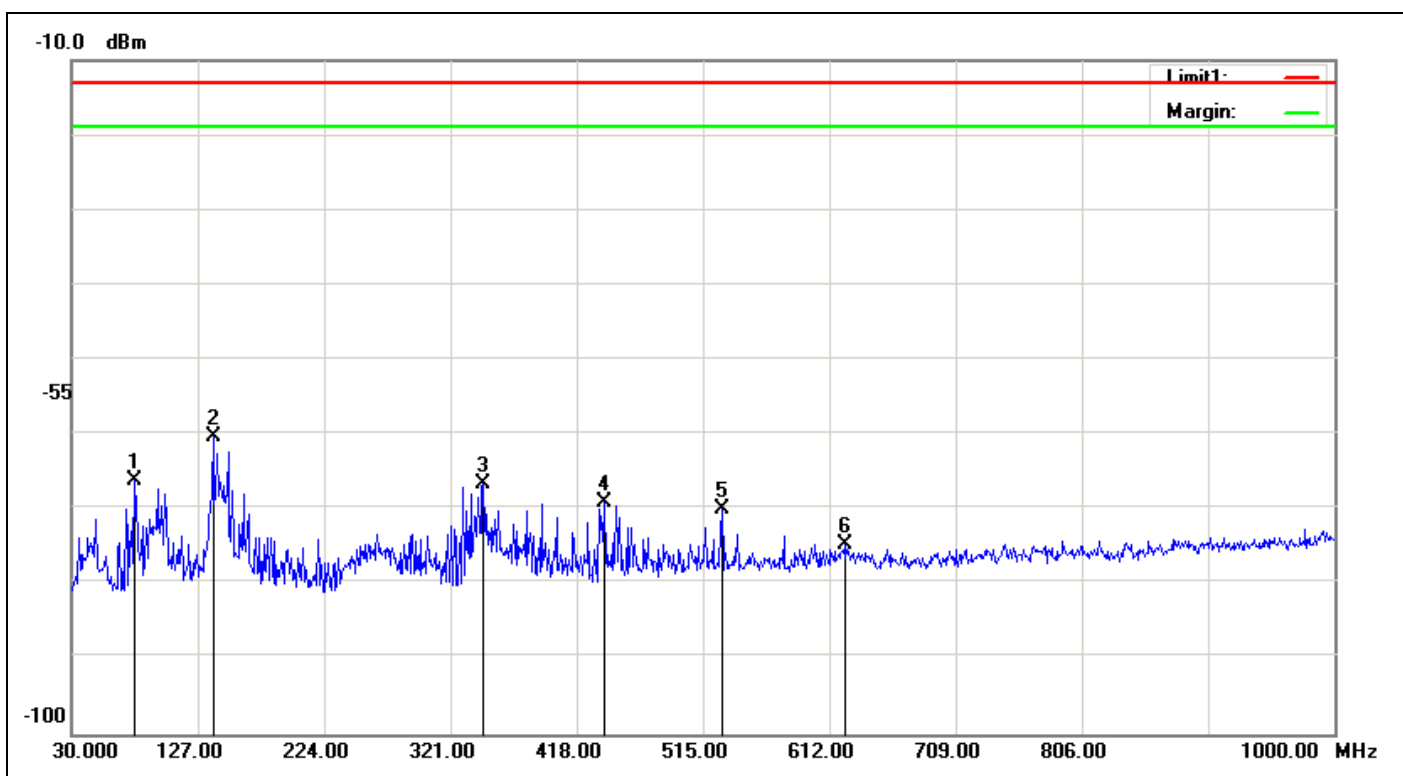
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:下午 02:12:08</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9262</b>		

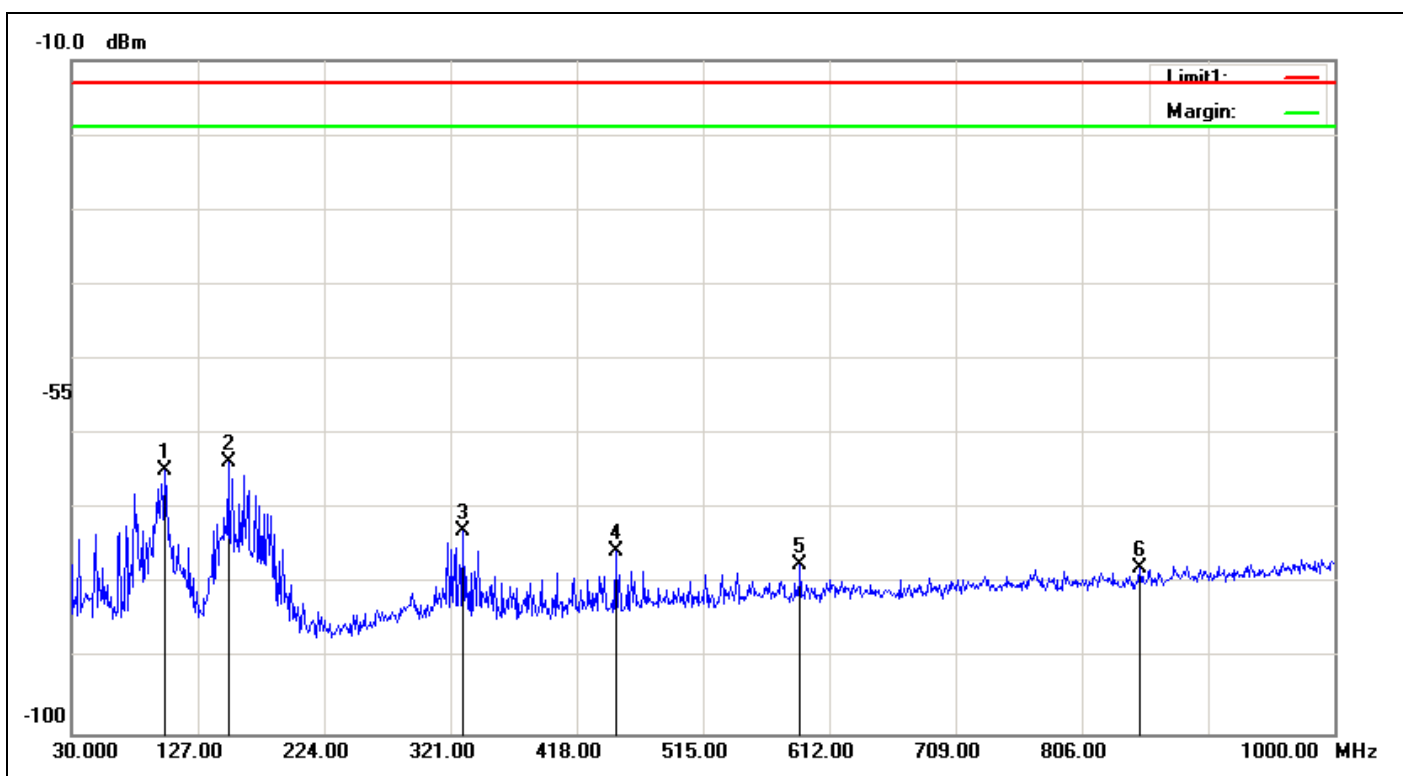


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.7	1.03	-0.43	-66.16	-13.00	-53.16	230	162	peak
2	138.6400	-58.54	1.39	-0.38	-60.31	-13.00	-47.31	230	159	peak
3	346.2200	-70.22	2.21	5.8	-66.63	-13.00	-53.63	230	182	peak
4	439.3400	-72.52	2.53	5.9	-69.15	-13.00	-56.15	230	211	peak
5	529.5500	-73.22	2.75	6	-69.97	-13.00	-56.97	230	175	peak
6	623.6400	-77.83	2.95	6.14	-74.64	-13.00	-61.64	230	172	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:25:11
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		

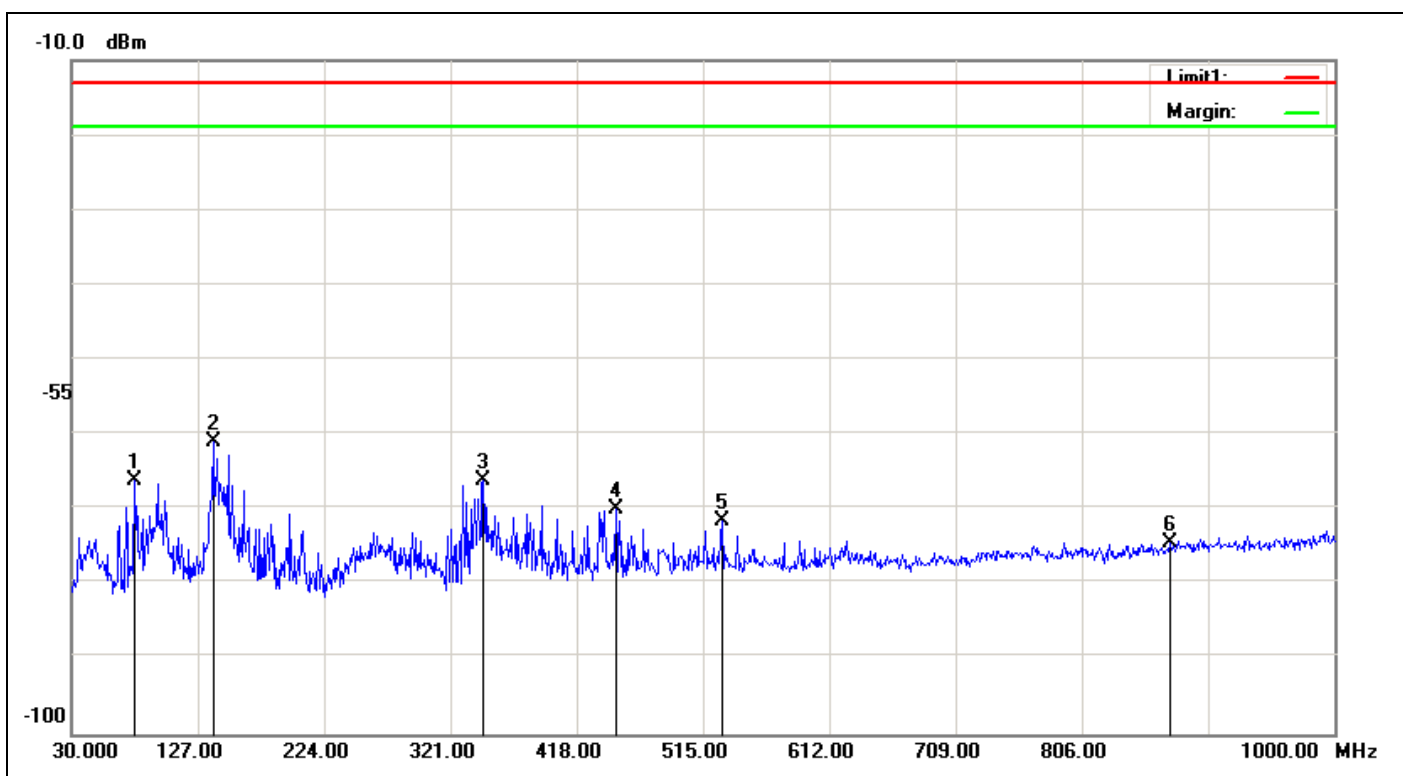


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.09	1.16	-0.64	-64.89	-13.00	-51.89	230	288	peak
2	150.2800	-62.92	1.43	0.71	-63.64	-13.00	-50.64	230	117	peak
3	330.7000	-76.47	2.16	5.71	-72.92	-13.00	-59.92	230	111	peak
4	448.0700	-78.71	2.58	5.74	-75.55	-13.00	-62.55	230	146	peak
5	589.6900	-80.58	2.89	6.19	-77.28	-13.00	-64.28	230	156	peak
6	850.6200	-80.8	3.4	6.4	-77.80	-13.00	-64.80	230	72	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:18:54
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		

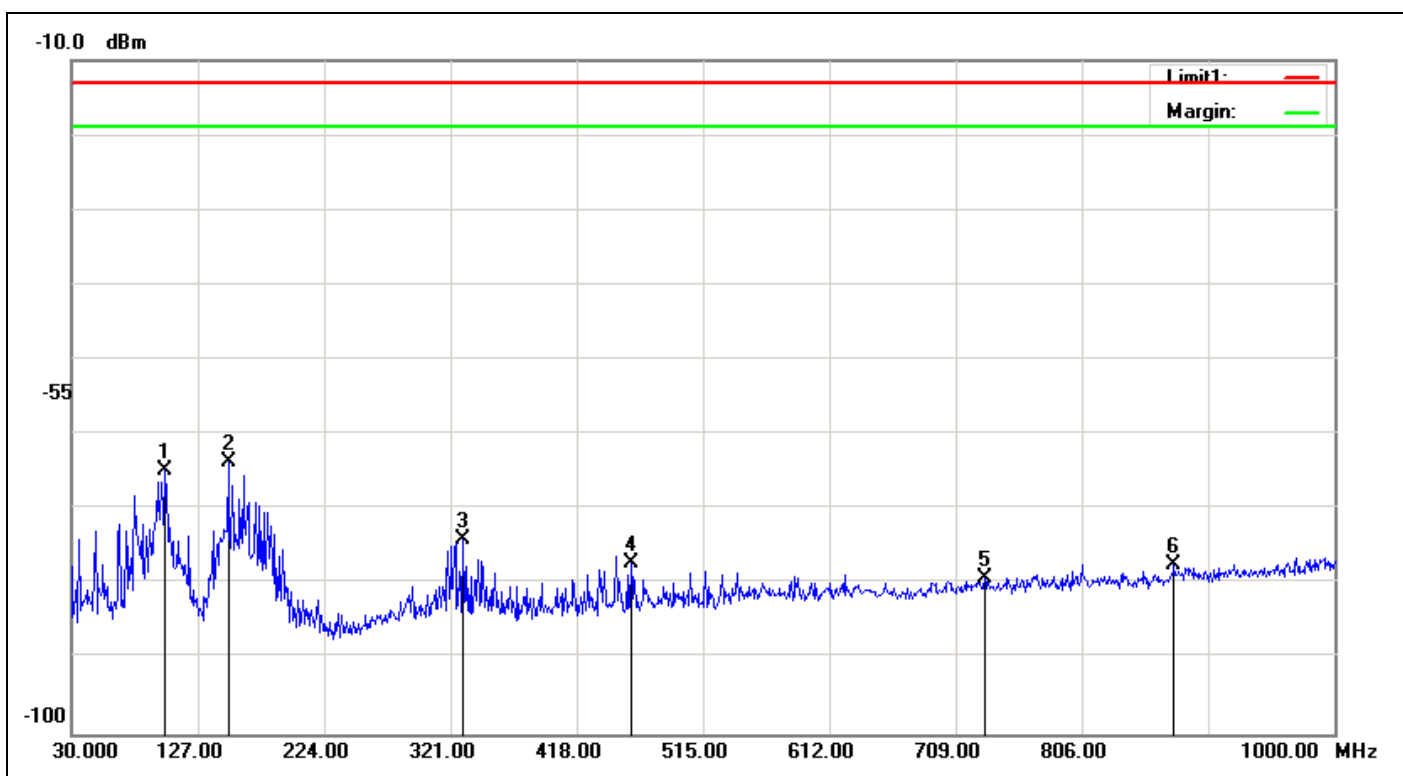


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.66	1.03	-0.43	-66.12	-13.00	-53.12	230	185	peak
2	138.6400	-59.19	1.39	-0.38	-60.96	-13.00	-47.96	230	178	peak
3	346.2200	-69.71	2.21	5.8	-66.12	-13.00	-53.12	230	181	peak
4	448.0700	-73.22	2.58	5.74	-70.06	-13.00	-57.06	230	207	peak
5	529.5500	-74.81	2.75	6	-71.56	-13.00	-58.56	230	171	peak
6	873.9000	-77.57	3.45	6.58	-74.44	-13.00	-61.44	230	9	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:31:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



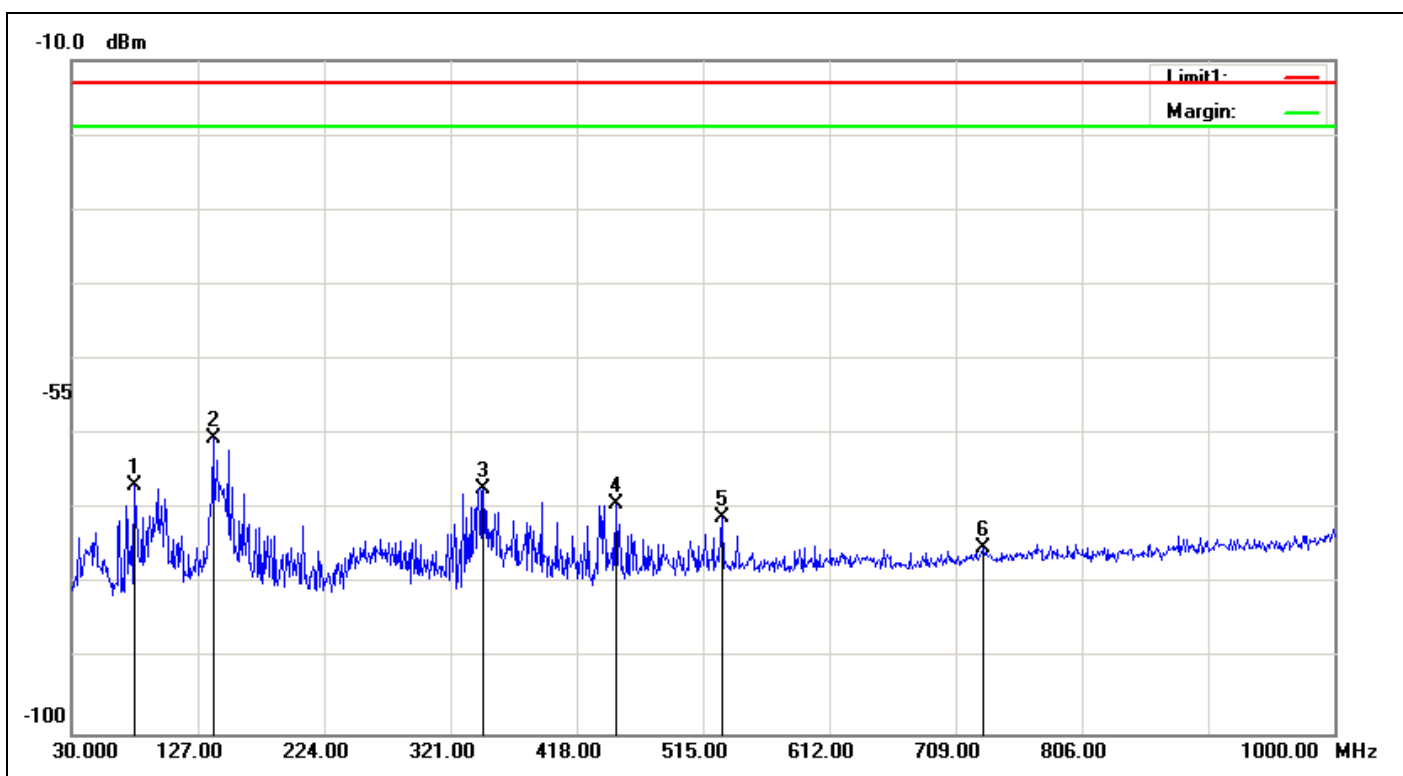
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.01	1.16	-0.64	-64.81	-13.00	-51.81	230	229	peak
2	150.2800	-62.99	1.43	0.71	-63.71	-13.00	-50.71	230	126	peak
3	330.7000	-77.47	2.16	5.71	-73.92	-13.00	-60.92	230	110	peak
4	459.7100	-80.4	2.6	5.88	-77.12	-13.00	-64.12	230	235	peak
5	731.3100	-82.48	3.18	6.37	-79.29	-13.00	-66.29	230	3	peak
6	876.8100	-80.52	3.46	6.63	-77.35	-13.00	-64.35	230	120	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:38:16
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		

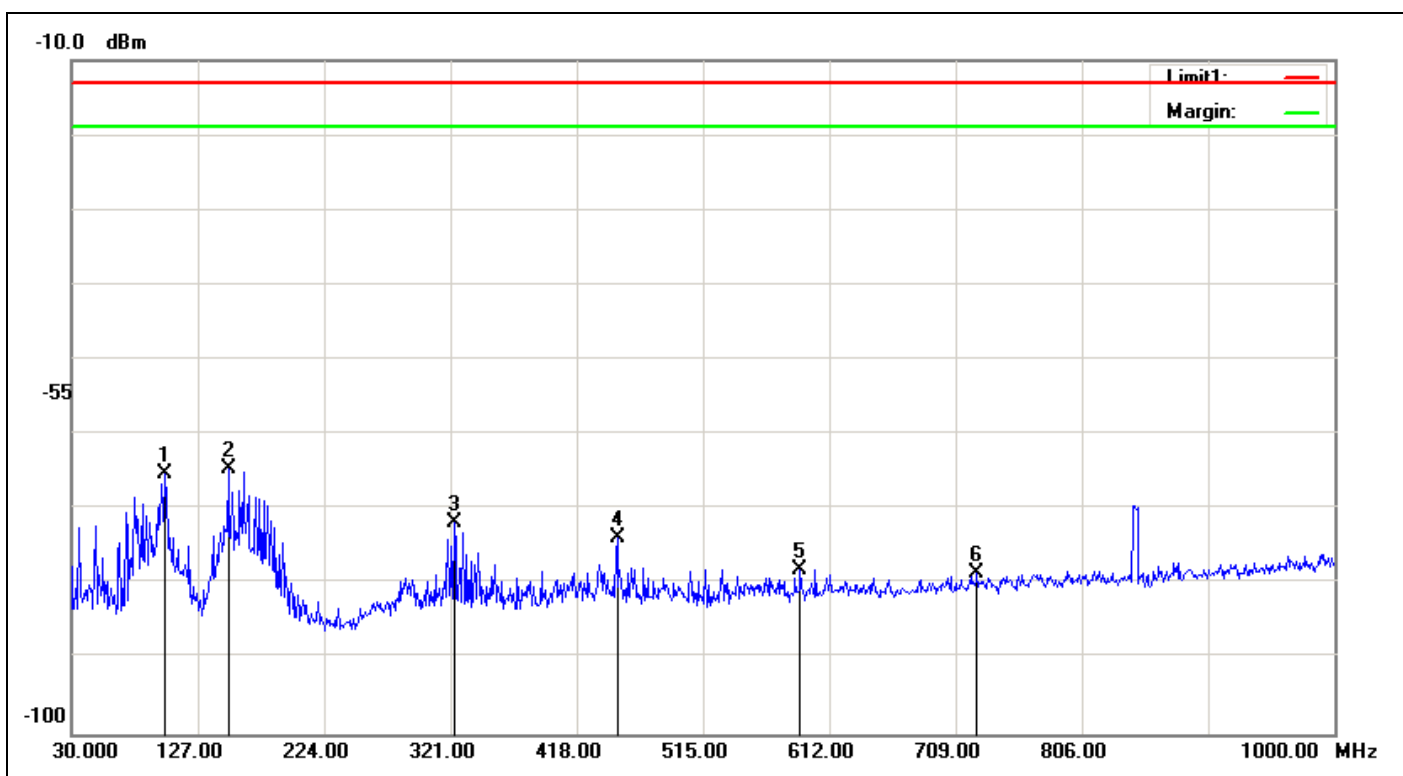


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-65.37	1.03	-0.43	-66.83	-13.00	-53.83	230	180	peak
2	138.6400	-58.72	1.39	-0.38	-60.49	-13.00	-47.49	230	170	peak
3	346.2200	-70.84	2.21	5.8	-67.25	-13.00	-54.25	230	180	peak
4	448.0700	-72.42	2.58	5.74	-69.26	-13.00	-56.26	230	216	peak
5	529.5500	-74.39	2.75	6	-71.14	-13.00	-58.14	230	180	peak
6	730.3400	-78.42	3.18	6.39	-75.21	-13.00	-62.21	230	170	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:30:33
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		

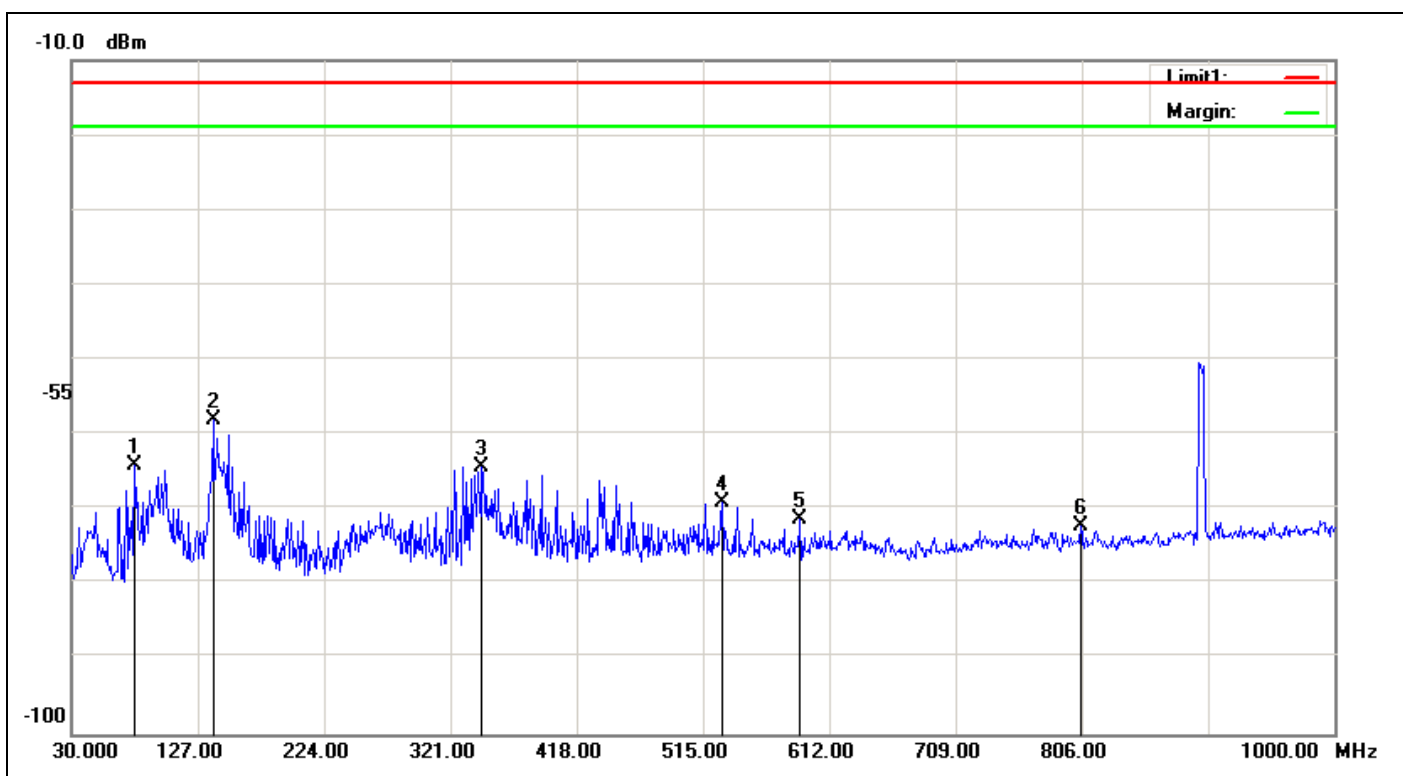


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.48	1.16	-0.64	-65.28	-13.00	-52.28	230	251	peak
2	150.2800	-63.81	1.43	0.71	-64.53	-13.00	-51.53	230	109	peak
3	323.9100	-75.32	2.17	5.7	-71.79	-13.00	-58.79	230	0	peak
4	449.0400	-76.85	2.59	5.72	-73.72	-13.00	-60.72	230	84	peak
5	589.6900	-81.28	2.89	6.19	-77.98	-13.00	-64.98	230	149	peak
6	725.4900	-81.73	3.17	6.45	-78.45	-13.00	-65.45	230	62	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:09:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-62.75	1.03	-0.43	-64.21	-13.00	-51.21	230	168	peak
2	138.6400	-56.17	1.39	-0.38	-57.94	-13.00	-44.94	230	154	peak
3	345.2500	-67.88	2.2	5.8	-64.28	-13.00	-51.28	230	168	peak
4	529.5500	-72.3	2.75	6	-69.05	-13.00	-56.05	230	177	peak
5	589.6900	-74.5	2.89	6.19	-71.20	-13.00	-58.20	230	148	peak
6	805.0300	-75.19	3.33	6.41	-72.11	-13.00	-59.11	230	2	peak



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五股實驗室 Wugu LAB

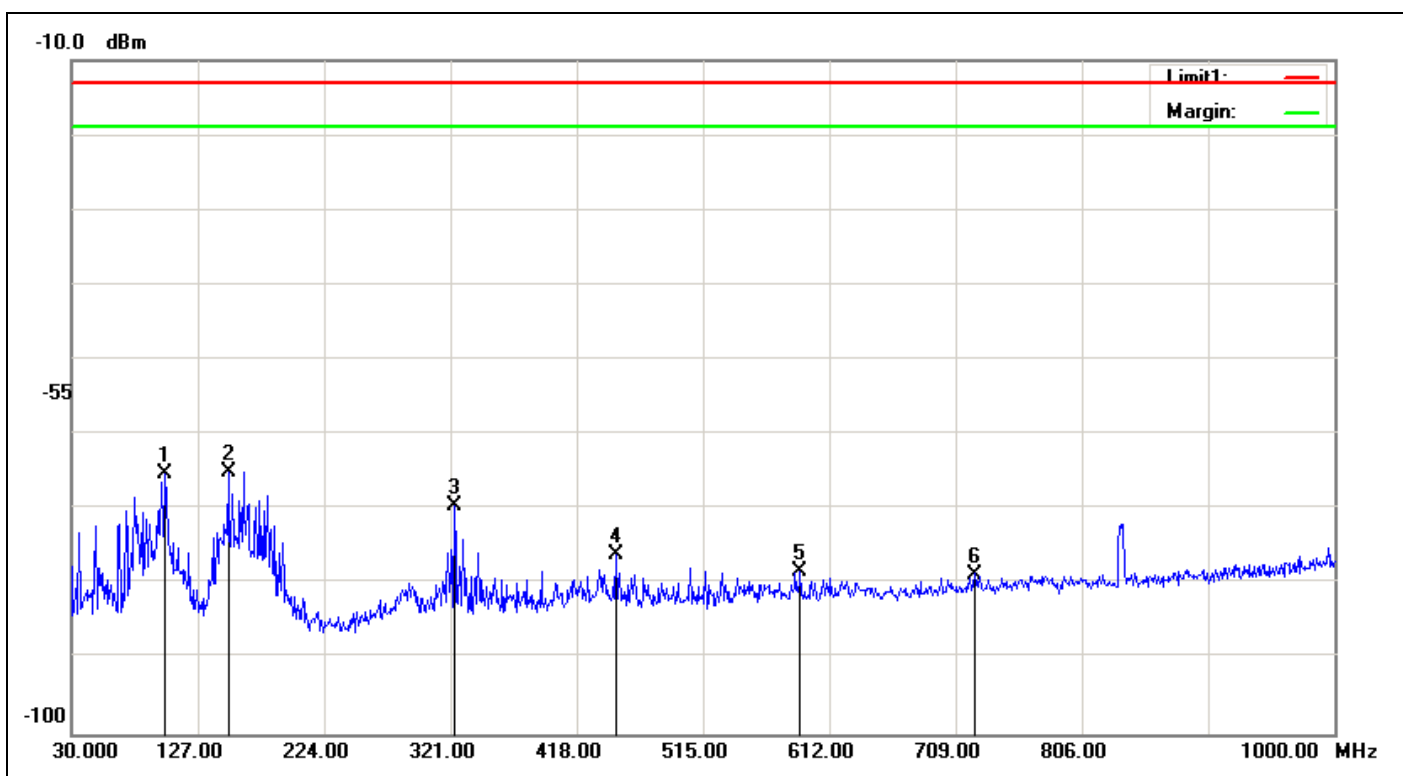
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:</b> 2014/8/20	<b>Time:</b> 下午 01:38:07
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4182</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.34	1.16	-0.64	-65.14	-13.00	-52.14	230	265	peak
2	150.2800	-64.2	1.43	0.71	-64.92	-13.00	-51.92	230	106	peak
3	323.9100	-73.08	2.17	5.7	-69.55	-13.00	-56.55	230	0	peak
4	448.0700	-79.24	2.58	5.74	-76.08	-13.00	-63.08	230	159	peak
5	589.6900	-81.56	2.89	6.19	-78.26	-13.00	-65.26	230	156	peak
6	723.5500	-81.93	3.17	6.47	-78.63	-13.00	-65.63	230	350	peak



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五股實驗室 Wugu LAB

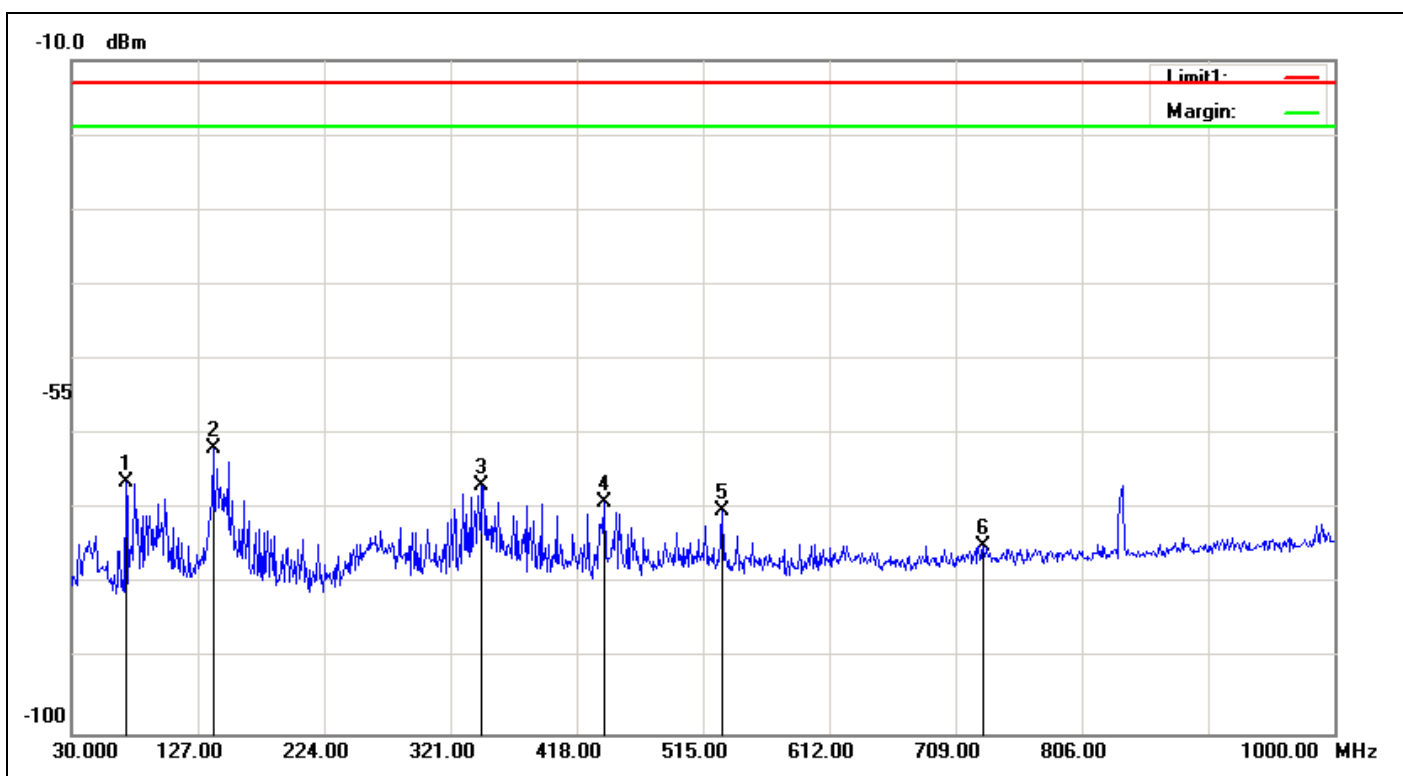
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:下午 01:45:18</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4182</b>		

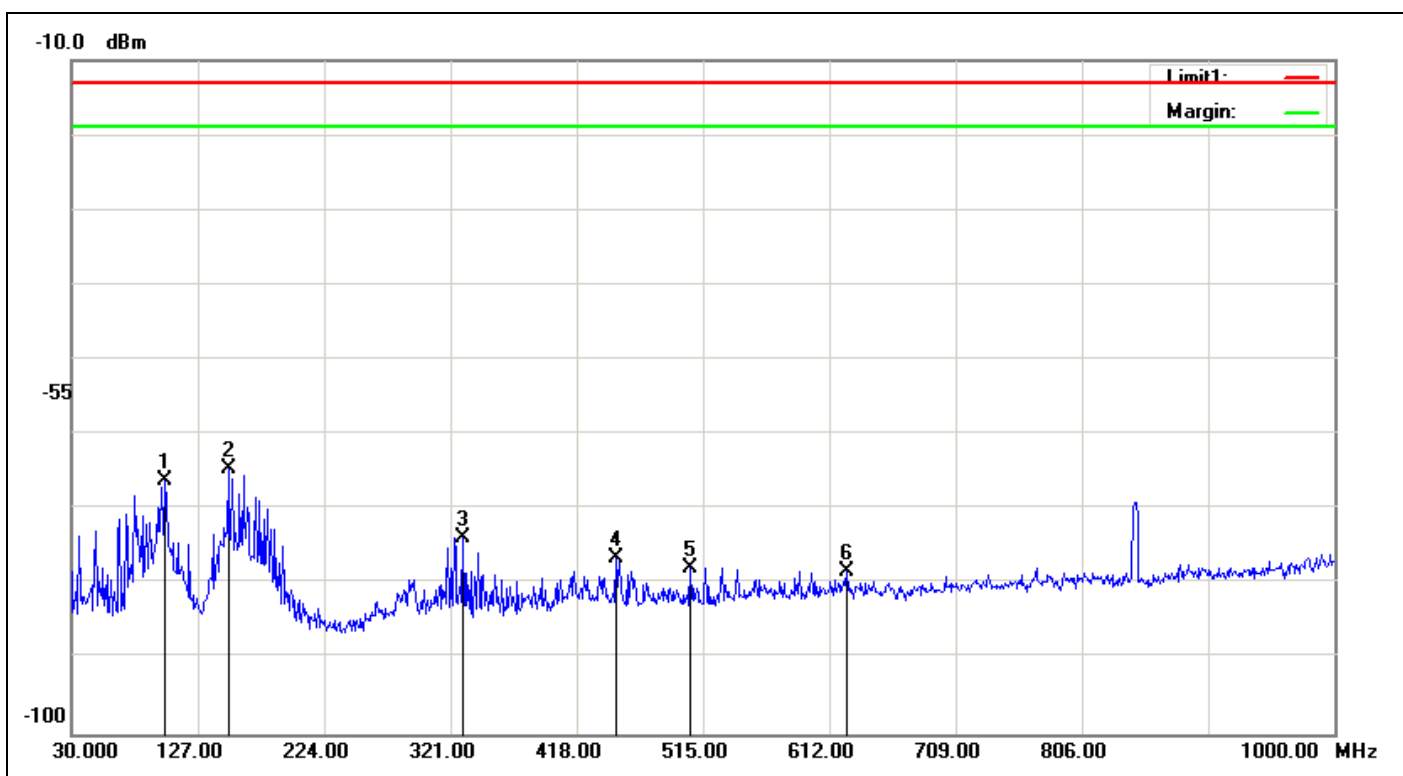


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	71.7100	-63.89	0.97	-1.61	-66.47	-13.00	-53.47	230	172	peak
2	138.6400	-60.01	1.39	-0.38	-61.78	-13.00	-48.78	230	169	peak
3	345.2500	-70.49	2.2	5.8	-66.89	-13.00	-53.89	230	163	peak
4	439.3400	-72.53	2.53	5.9	-69.16	-13.00	-56.16	230	229	peak
5	529.5500	-73.55	2.75	6	-70.30	-13.00	-57.30	230	175	peak
6	730.3400	-78.07	3.18	6.39	-74.86	-13.00	-61.86	230	299	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:58:39
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

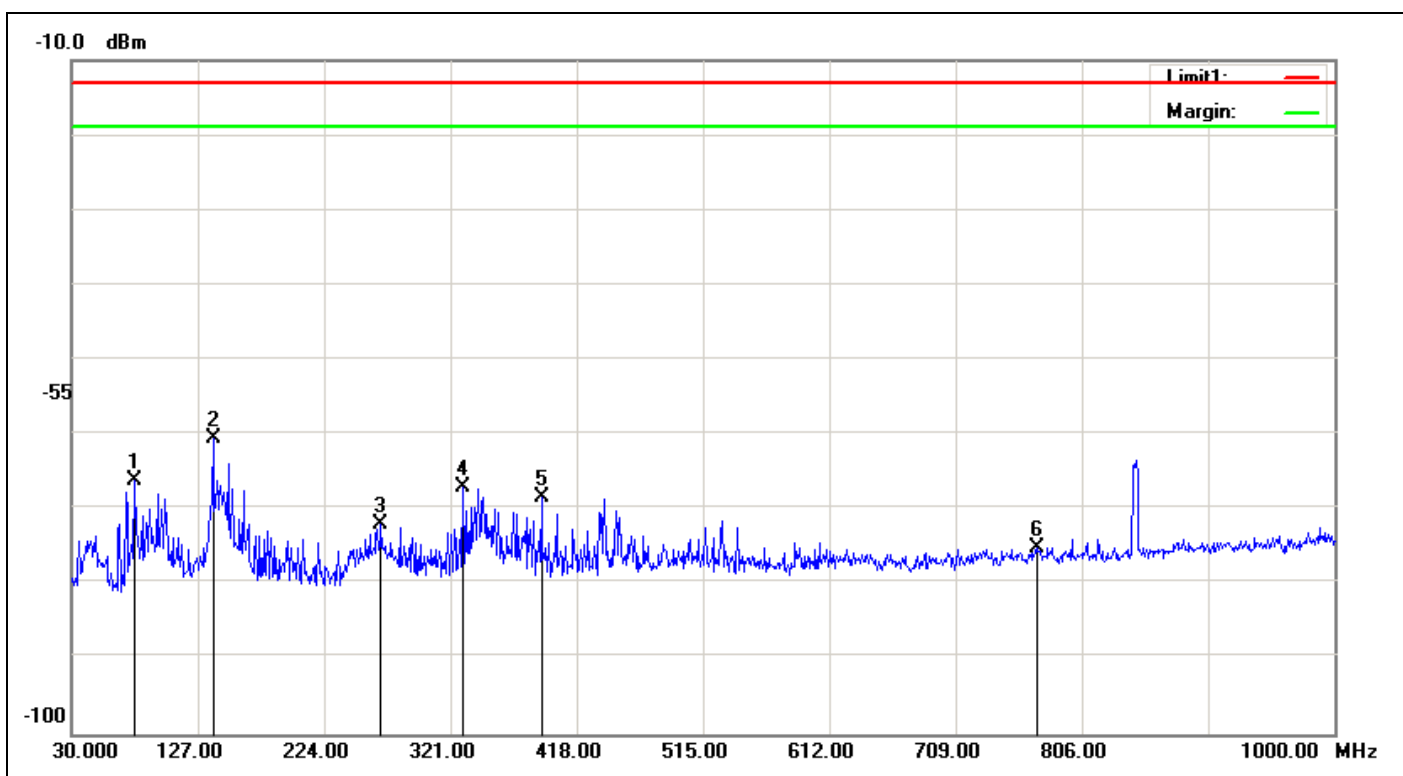


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-64.25	1.16	-0.64	-66.05	-13.00	-53.05	230	278	peak
2	150.2800	-63.86	1.43	0.71	-64.58	-13.00	-51.58	230	122	peak
3	330.7000	-77.38	2.16	5.71	-73.83	-13.00	-60.83	230	99	peak
4	448.0700	-79.64	2.58	5.74	-76.48	-13.00	-63.48	230	148	peak
5	505.3000	-81.09	2.69	5.95	-77.83	-13.00	-64.83	230	102	peak
6	625.5800	-81.57	2.96	6.16	-78.37	-13.00	-65.37	230	54	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:52:10
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

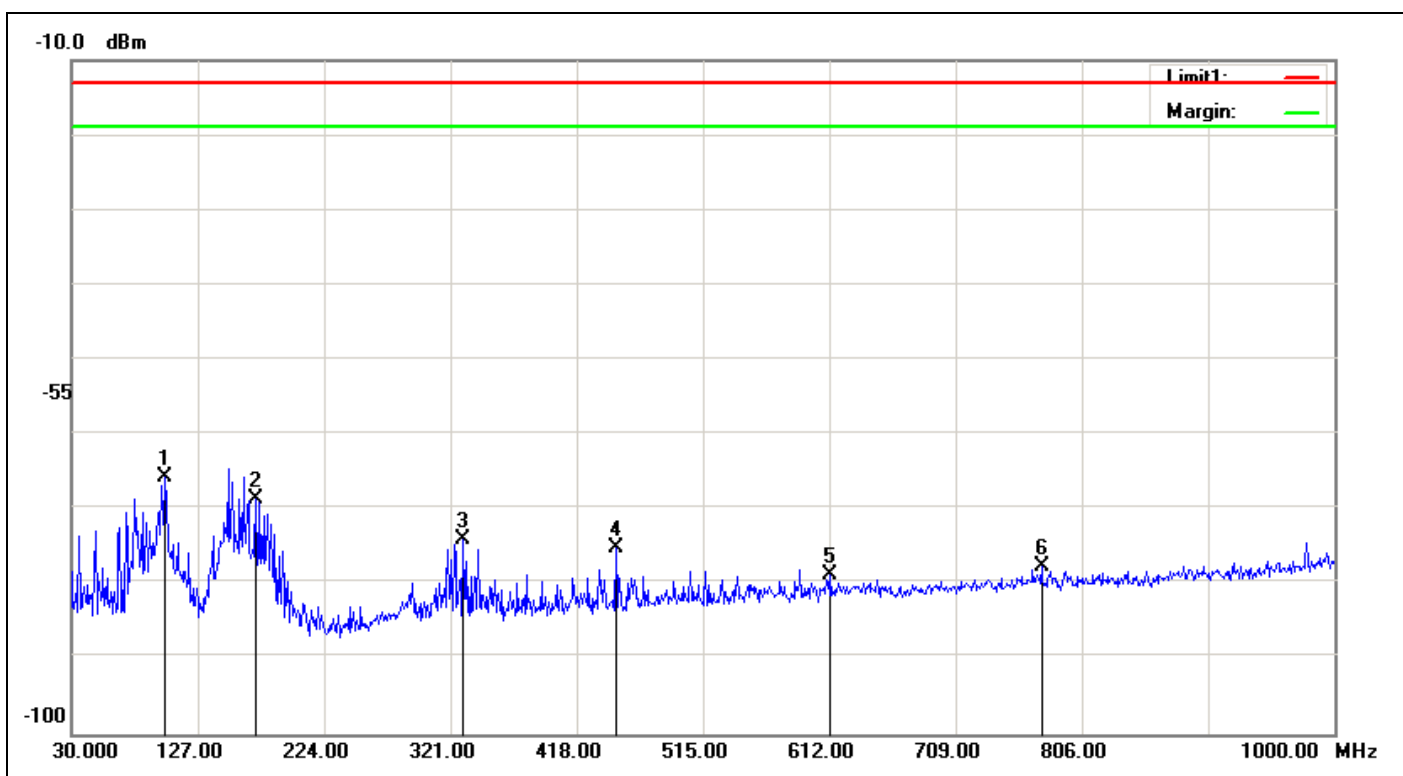


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.66	1.03	-0.43	-66.12	-13.00	-53.12	230	169	peak
2	138.6400	-58.69	1.39	-0.38	-60.46	-13.00	-47.46	230	162	peak
3	267.6500	-75.26	1.96	5.22	-72.00	-13.00	-59.00	230	181	peak
4	330.7000	-70.61	2.16	5.71	-67.06	-13.00	-54.06	230	185	peak
5	390.8400	-72.06	2.32	6	-68.38	-13.00	-55.38	230	165	peak
6	771.0800	-78.3	3.27	6.35	-75.22	-13.00	-62.22	230	223	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:01:09
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



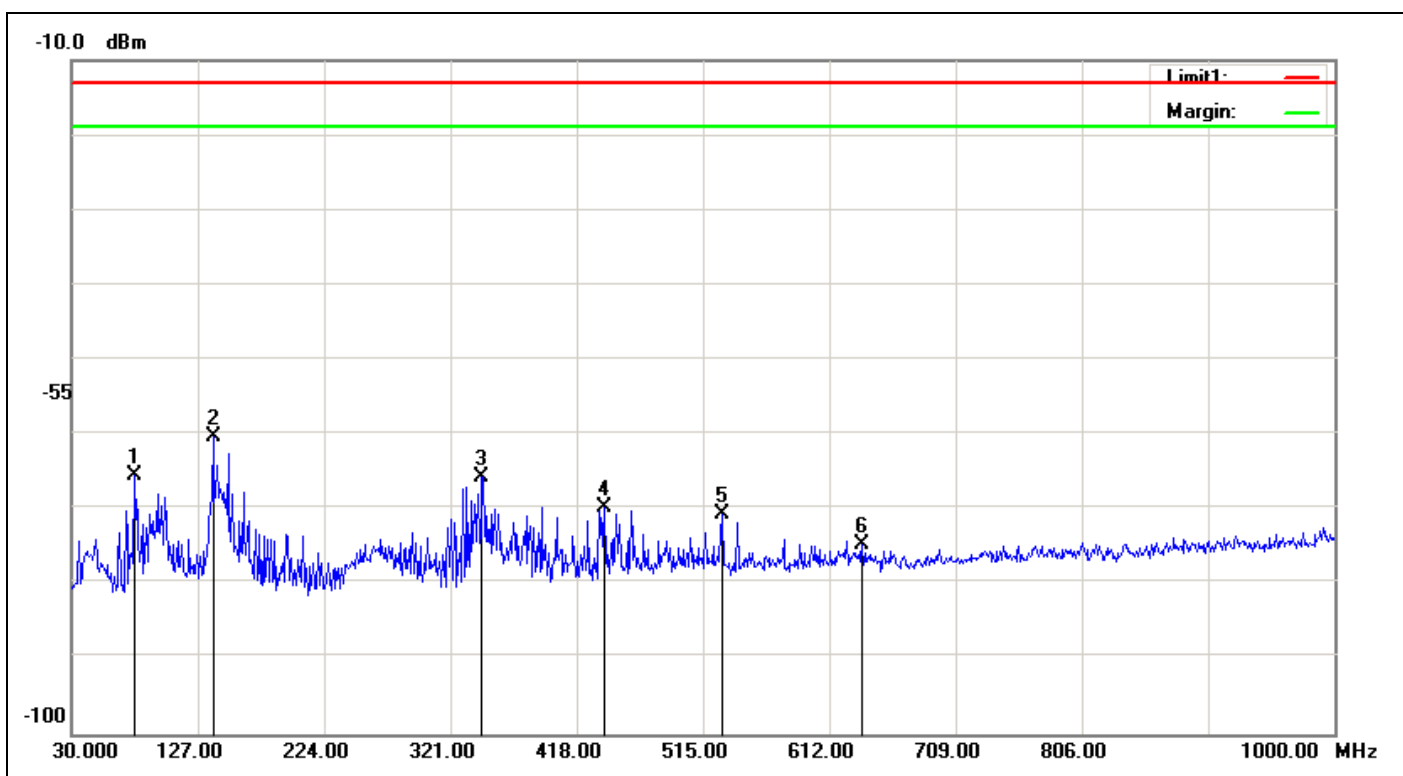
No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.93	1.16	-0.64	-65.73	-13.00	-52.73	230	264	peak
2	171.6200	-69.83	1.57	2.69	-68.71	-13.00	-55.71	230	104	peak
3	330.7000	-77.52	2.16	5.71	-73.97	-13.00	-60.97	230	108	peak
4	448.0700	-78.29	2.58	5.74	-75.13	-13.00	-62.13	230	163	peak
5	612.9700	-81.95	2.94	6.23	-78.66	-13.00	-65.66	230	124	peak
6	774.9600	-80.62	3.29	6.24	-77.67	-13.00	-64.67	230	160	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:07:54
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		

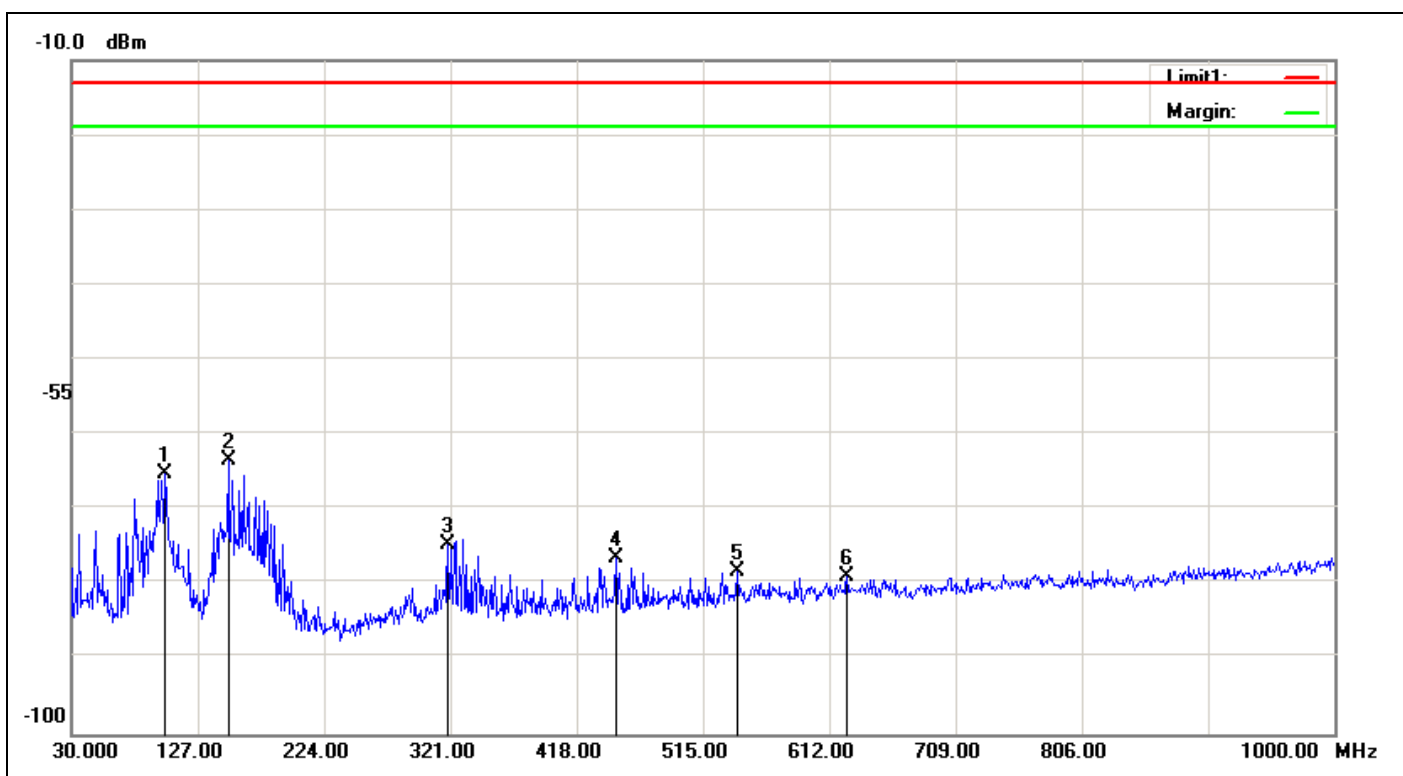


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.05	1.03	-0.43	-65.51	-13.00	-52.51	230	163	peak
2	138.6400	-58.58	1.39	-0.38	-60.35	-13.00	-47.35	230	173	peak
3	345.2500	-69.31	2.2	5.8	-65.71	-13.00	-52.71	230	192	peak
4	439.3400	-73.2	2.53	5.9	-69.83	-13.00	-56.83	230	221	peak
5	529.5500	-73.95	2.75	6	-70.70	-13.00	-57.70	230	167	peak
6	637.2200	-77.93	3	6.15	-74.78	-13.00	-61.78	230	9	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:20:57
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.53	1.16	-0.64	-65.33	-13.00	-52.33	230	265	peak
2	150.2800	-62.79	1.43	0.71	-63.51	-13.00	-50.51	230	126	peak
3	319.0600	-78.31	2.17	5.71	-74.77	-13.00	-61.77	230	110	peak
4	448.0700	-79.57	2.58	5.74	-76.41	-13.00	-63.41	230	152	peak
5	541.1900	-81.66	2.78	6.25	-78.19	-13.00	-65.19	230	146	peak
6	625.5800	-82.2	2.96	6.16	-79.00	-13.00	-66.00	230	94	peak



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五股實驗室 Wugu LAB

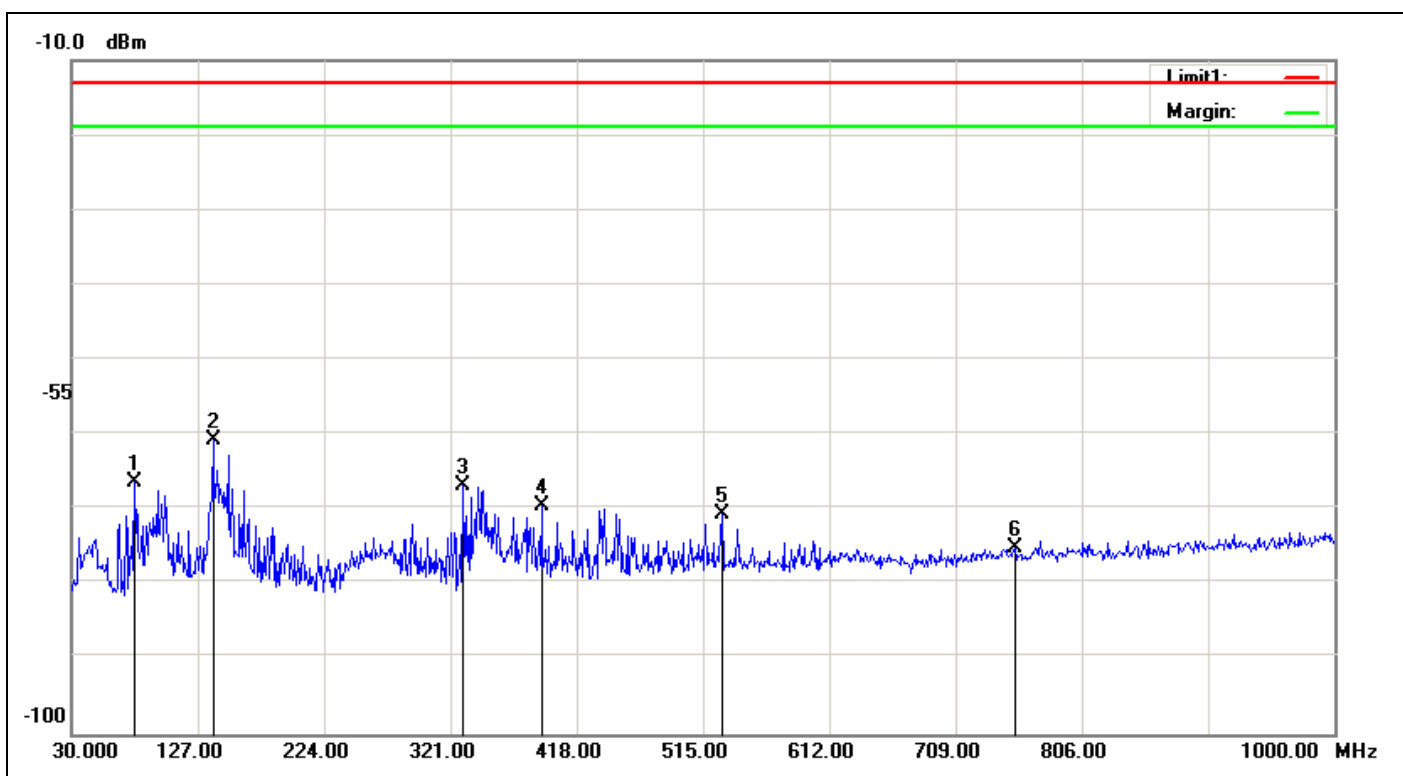
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:下午 02:14:22</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9400</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.98	1.03	-0.43	-66.44	-13.00	-53.44	230	178	peak
2	138.6400	-59.03	1.39	-0.38	-60.80	-13.00	-47.80	230	0	peak
3	330.7000	-70.44	2.16	5.71	-66.89	-13.00	-53.89	230	192	peak
4	390.8400	-73.28	2.32	6	-69.60	-13.00	-56.60	230	172	peak
5	529.5500	-73.99	2.75	6	-70.74	-13.00	-57.74	230	182	peak
6	754.5900	-78.2	3.21	6.19	-75.22	-13.00	-62.22	230	285	peak



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五股實驗室 Wugu LAB

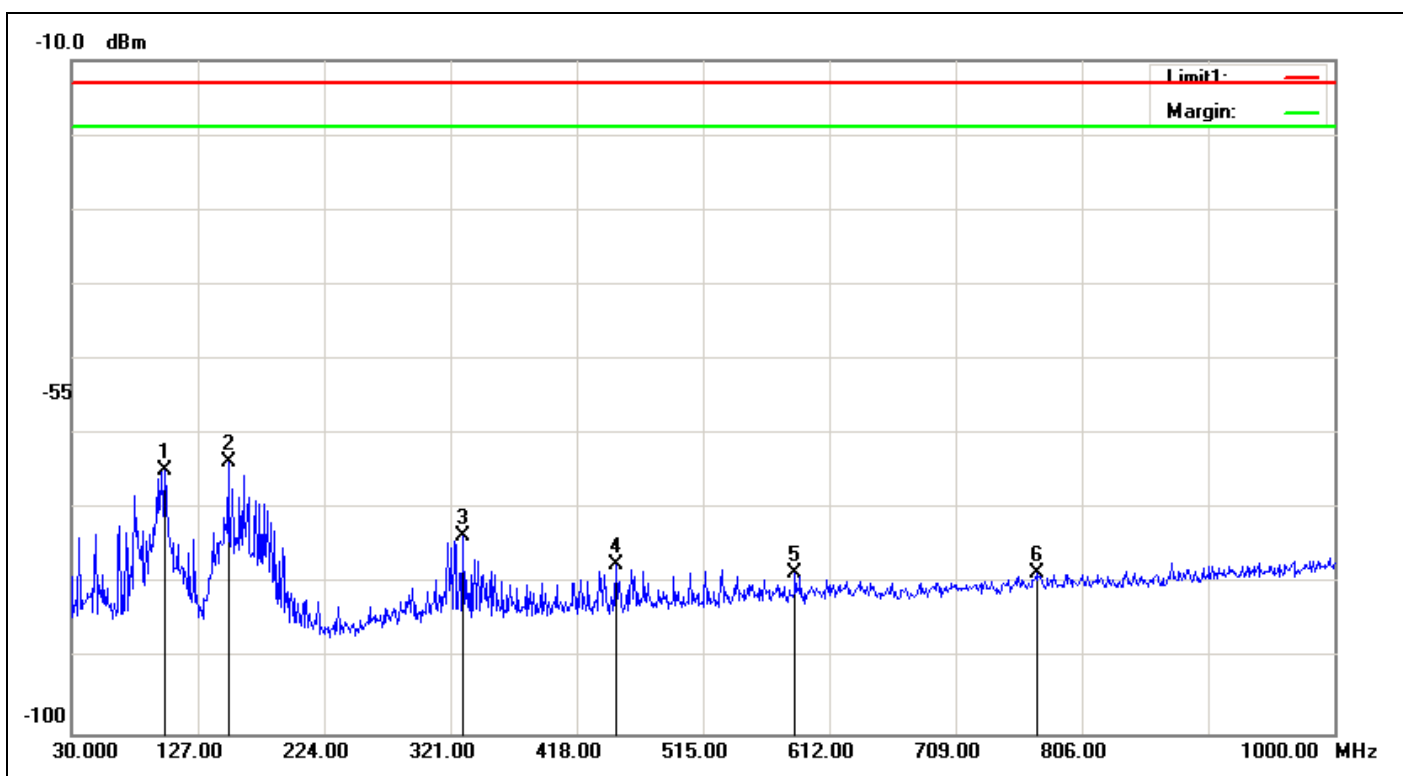
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:27:31
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		

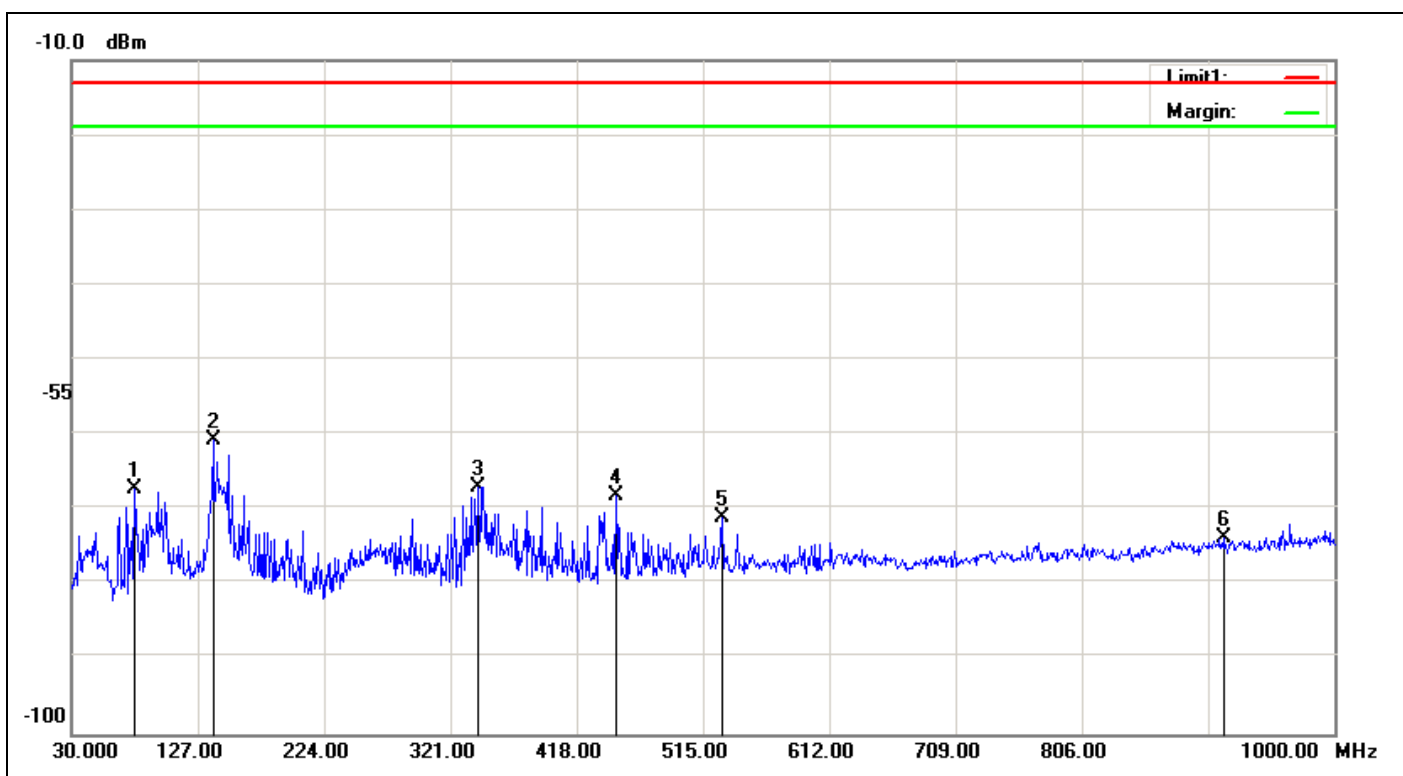


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.03	1.16	-0.64	-64.83	-13.00	-51.83	230	290	peak
2	150.2800	-63.03	1.43	0.71	-63.75	-13.00	-50.75	230	123	peak
3	330.7000	-77.15	2.16	5.71	-73.60	-13.00	-60.60	230	104	peak
4	448.0700	-80.62	2.58	5.74	-77.46	-13.00	-64.46	230	165	peak
5	585.8100	-81.76	2.89	6.11	-78.54	-13.00	-65.54	230	216	peak
6	771.0800	-81.7	3.27	6.35	-78.62	-13.00	-65.62	230	254	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:34:00
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-65.76	1.03	-0.43	-67.22	-13.00	-54.22	230	159	peak
2	138.6400	-58.89	1.39	-0.38	-60.66	-13.00	-47.66	230	142	peak
3	342.3400	-70.68	2.18	5.8	-67.06	-13.00	-54.06	230	195	peak
4	448.0700	-71.28	2.58	5.74	-68.12	-13.00	-55.12	230	220	peak
5	529.5500	-74.43	2.75	6	-71.18	-13.00	-58.18	230	178	peak
6	914.6400	-76.82	3.57	6.6	-73.79	-13.00	-60.79	230	122	peak



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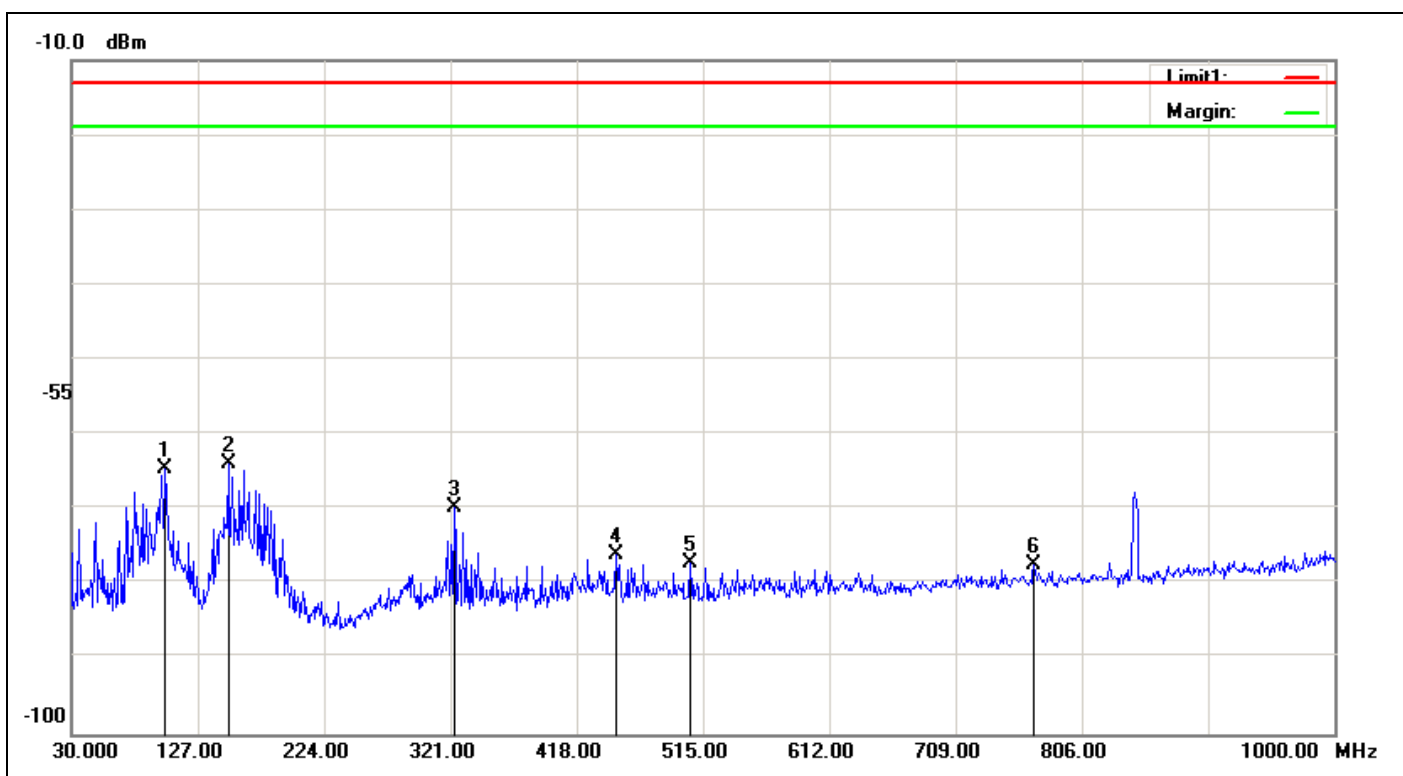
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:下午 01:25:34</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4132</b>		

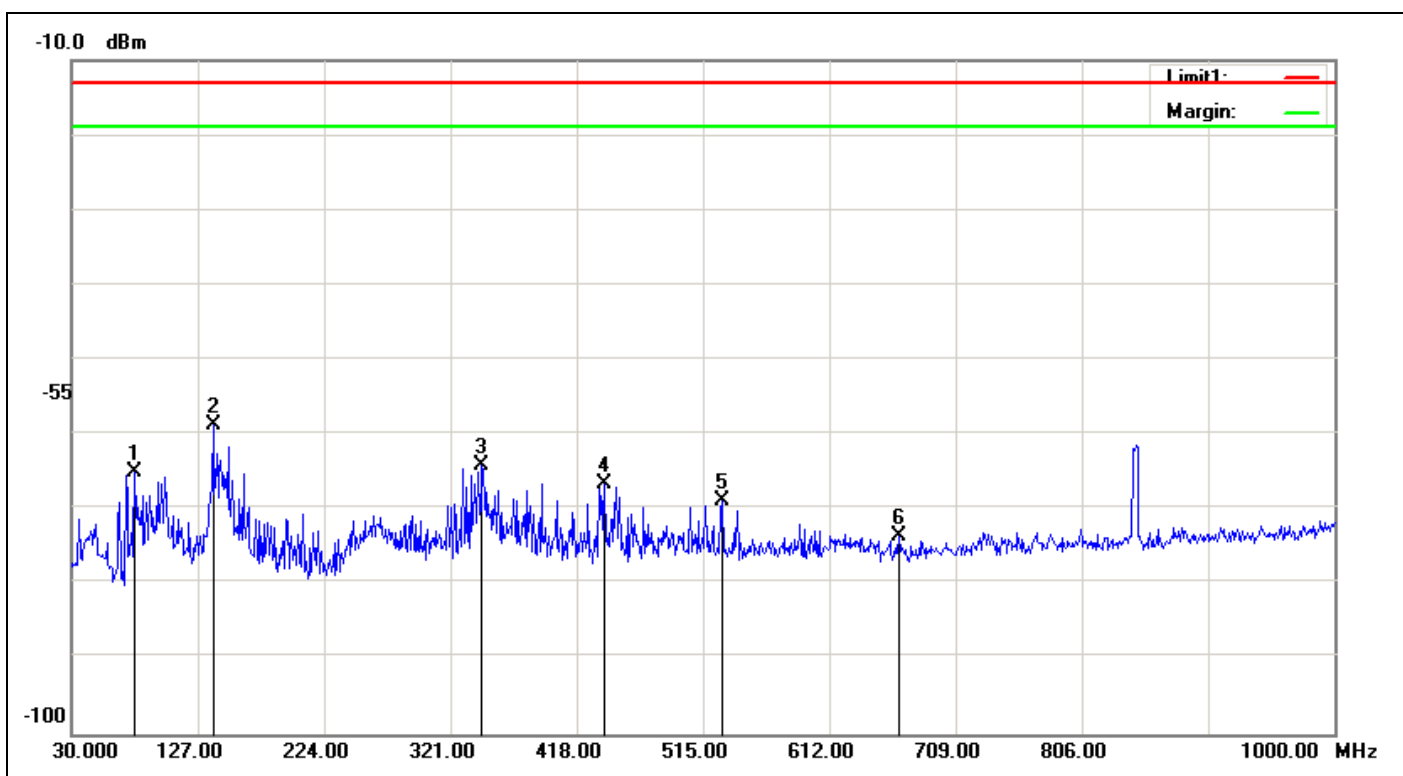


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-62.82	1.16	-0.64	-64.62	-13.00	-51.62	230	259	peak
2	150.2800	-63.12	1.43	0.71	-63.84	-13.00	-50.84	230	123	peak
3	323.9100	-73.25	2.17	5.7	-69.72	-13.00	-56.72	230	1	peak
4	448.0700	-79.3	2.58	5.74	-76.14	-13.00	-63.14	230	154	peak
5	505.3000	-80.4	2.69	5.95	-77.14	-13.00	-64.14	230	86	peak
6	769.1400	-80.43	3.27	6.39	-77.31	-13.00	-64.31	230	265	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:20:14
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-63.48	1.03	-0.43	-64.94	-13.00	-51.94	230	169	peak
2	138.6400	-56.89	1.39	-0.38	-58.66	-13.00	-45.66	230	344	peak
3	345.2500	-67.72	2.2	5.8	-64.12	-13.00	-51.12	230	198	peak
4	439.3400	-70.06	2.53	5.9	-66.69	-13.00	-53.69	230	220	peak
5	529.5500	-72.18	2.75	6	-68.93	-13.00	-55.93	230	169	peak
6	665.3500	-76.71	3.06	6.3	-73.47	-13.00	-60.47	230	269	peak



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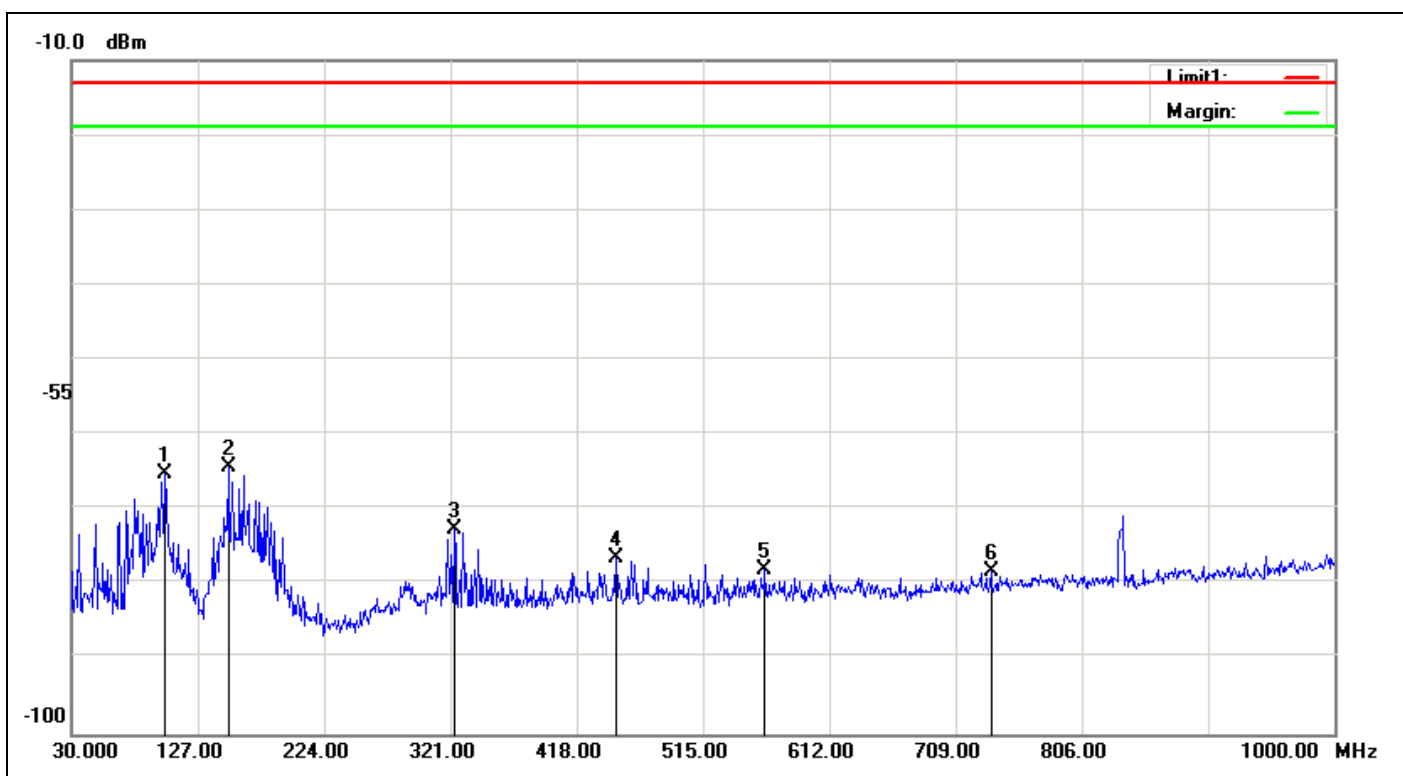
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:33:32
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



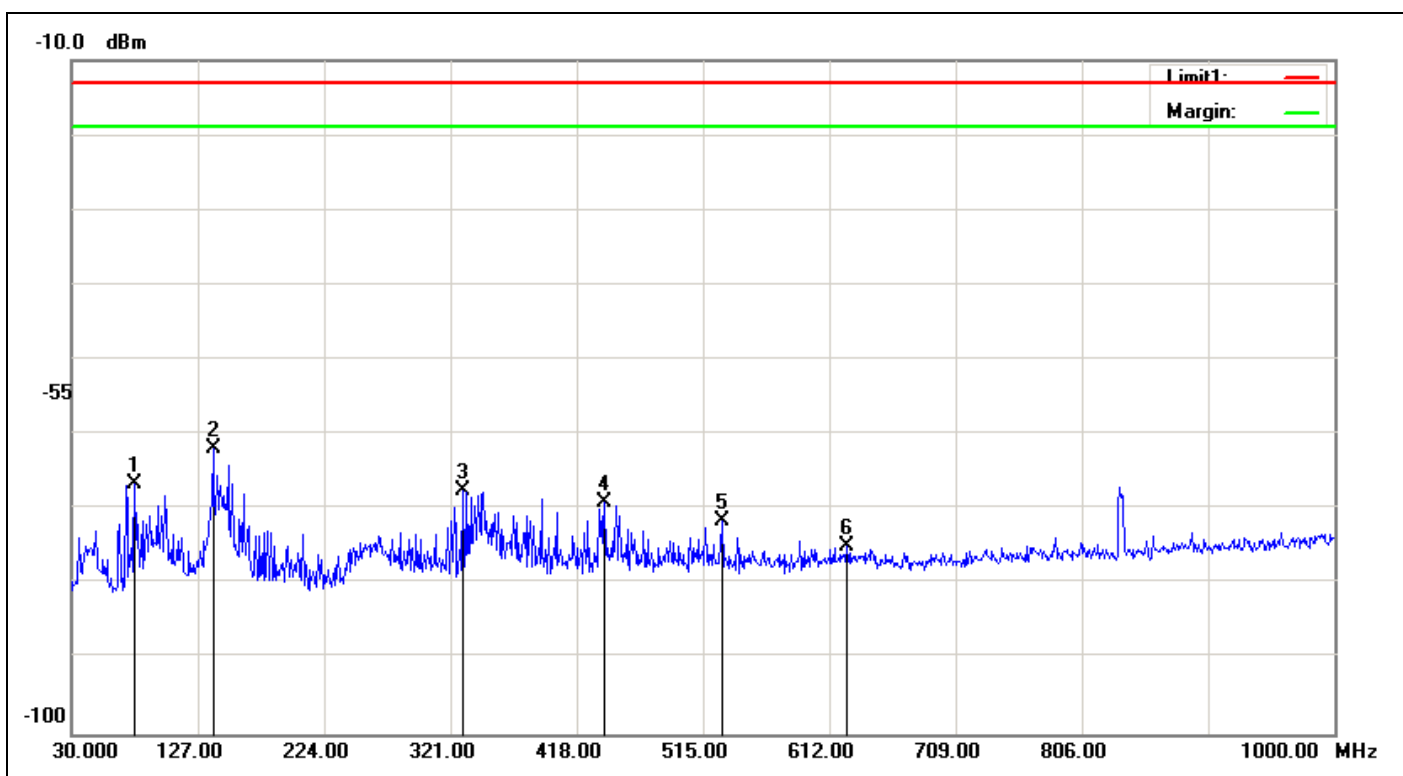
No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.47	1.16	-0.64	-65.27	-13.00	-52.27	230	252	peak
2	150.2800	-63.62	1.43	0.71	-64.34	-13.00	-51.34	230	106	peak
3	323.9100	-76.22	2.17	5.7	-72.69	-13.00	-59.69	230	0	peak
4	448.0700	-79.75	2.58	5.74	-76.59	-13.00	-63.59	230	144	peak
5	562.5300	-81.19	2.85	6.01	-78.03	-13.00	-65.03	230	185	peak
6	736.1600	-81.39	3.2	6.23	-78.36	-13.00	-65.36	230	147	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:40:14
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		

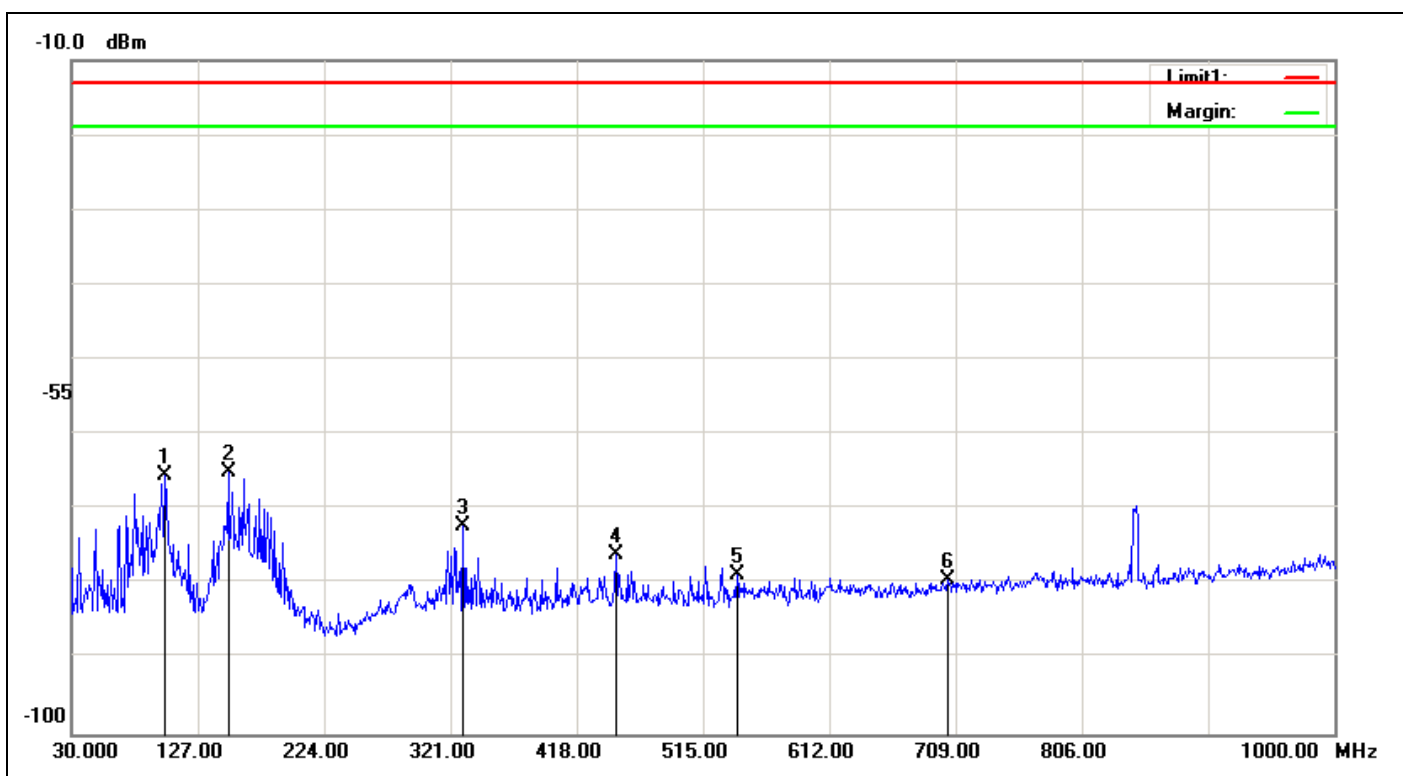


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-65.14	1.03	-0.43	-66.60	-13.00	-53.60	230	156	peak
2	138.6400	-60.02	1.39	-0.38	-61.79	-13.00	-48.79	230	169	peak
3	330.7000	-71.1	2.16	5.71	-67.55	-13.00	-54.55	230	197	peak
4	439.3400	-72.38	2.53	5.9	-69.01	-13.00	-56.01	230	213	peak
5	529.5500	-74.89	2.75	6	-71.64	-13.00	-58.64	230	175	peak
6	625.5800	-78.06	2.96	6.16	-74.86	-13.00	-61.86	230	201	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:54:21
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

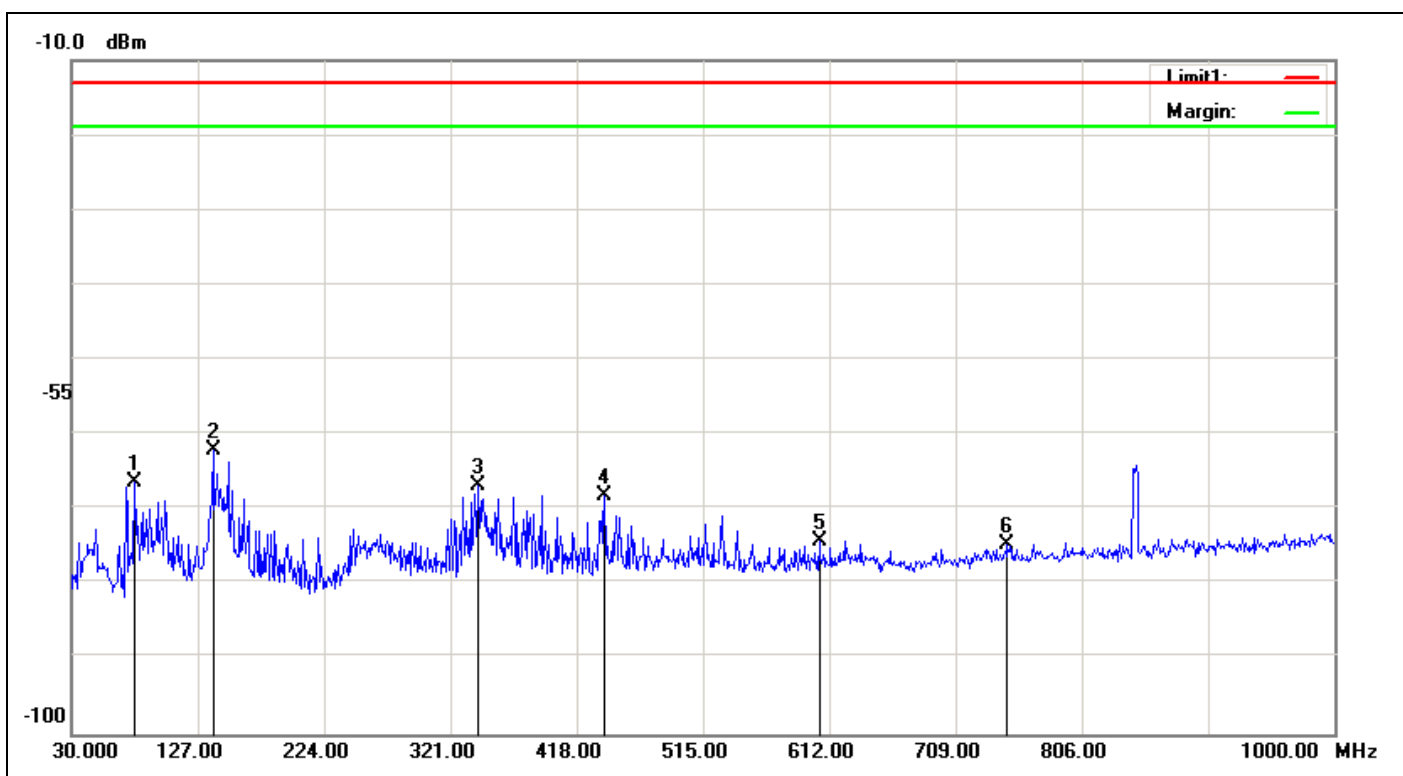


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.69	1.16	-0.64	-65.49	-13.00	-52.49	230	255	peak
2	150.2800	-64.21	1.43	0.71	-64.93	-13.00	-51.93	230	135	peak
3	330.7000	-75.84	2.16	5.71	-72.29	-13.00	-59.29	230	99	peak
4	448.0700	-79.11	2.58	5.74	-75.95	-13.00	-62.95	230	148	peak
5	541.1900	-82.17	2.78	6.25	-78.70	-13.00	-65.70	230	142	peak
6	703.1800	-82.68	3.12	6.36	-79.44	-13.00	-66.44	230	277	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:47:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		

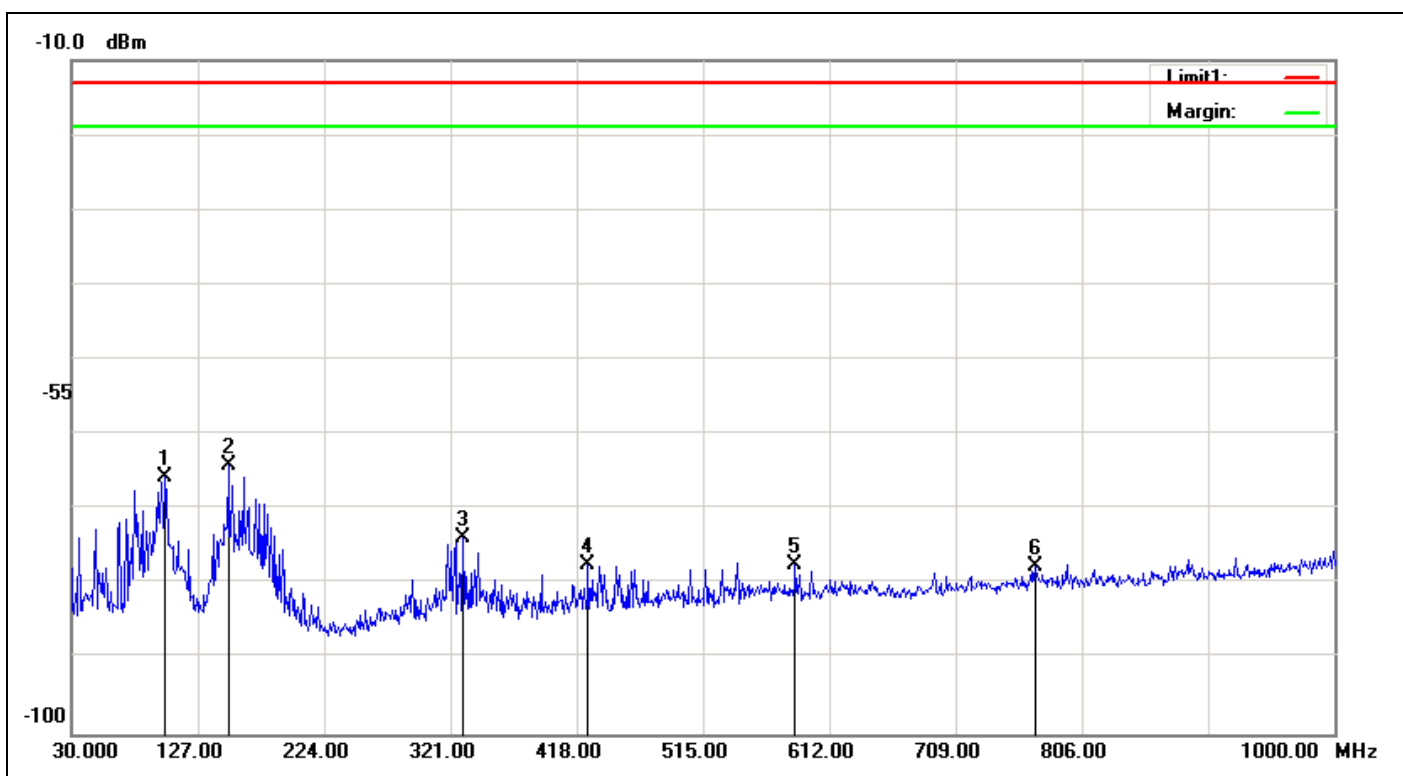


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.87	1.03	-0.43	-66.33	-13.00	-53.33	230	165	peak
2	138.6400	-60.33	1.39	-0.38	-62.10	-13.00	-49.10	230	155	peak
3	342.3400	-70.48	2.18	5.8	-66.86	-13.00	-53.86	230	184	peak
4	439.3400	-71.62	2.53	5.9	-68.25	-13.00	-55.25	230	218	peak
5	604.2400	-77.66	2.92	6.36	-74.22	-13.00	-61.22	230	271	peak
6	748.7700	-77.51	3.2	6.1	-74.61	-13.00	-61.61	230	313	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:03:29
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		

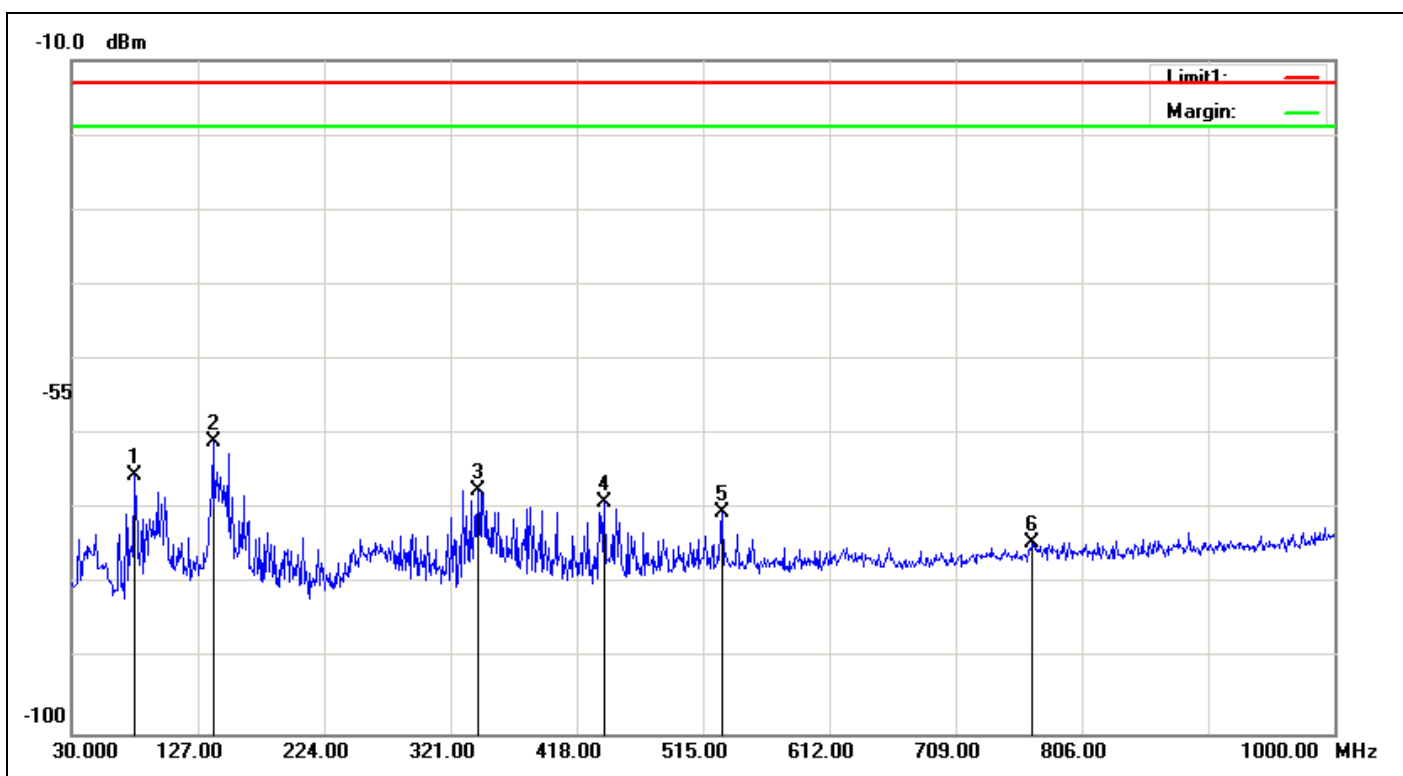


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.89	1.16	-0.64	-65.69	-13.00	-52.69	230	335	peak
2	150.2800	-63.28	1.43	0.71	-64.00	-13.00	-51.00	230	122	peak
3	330.7000	-77.41	2.16	5.71	-73.86	-13.00	-60.86	230	71	peak
4	426.7300	-80.67	2.48	5.8	-77.35	-13.00	-64.35	230	307	peak
5	585.8100	-80.63	2.89	6.11	-77.41	-13.00	-64.41	230	228	peak
6	770.1100	-80.8	3.27	6.38	-77.69	-13.00	-64.69	230	10	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:10:01
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		

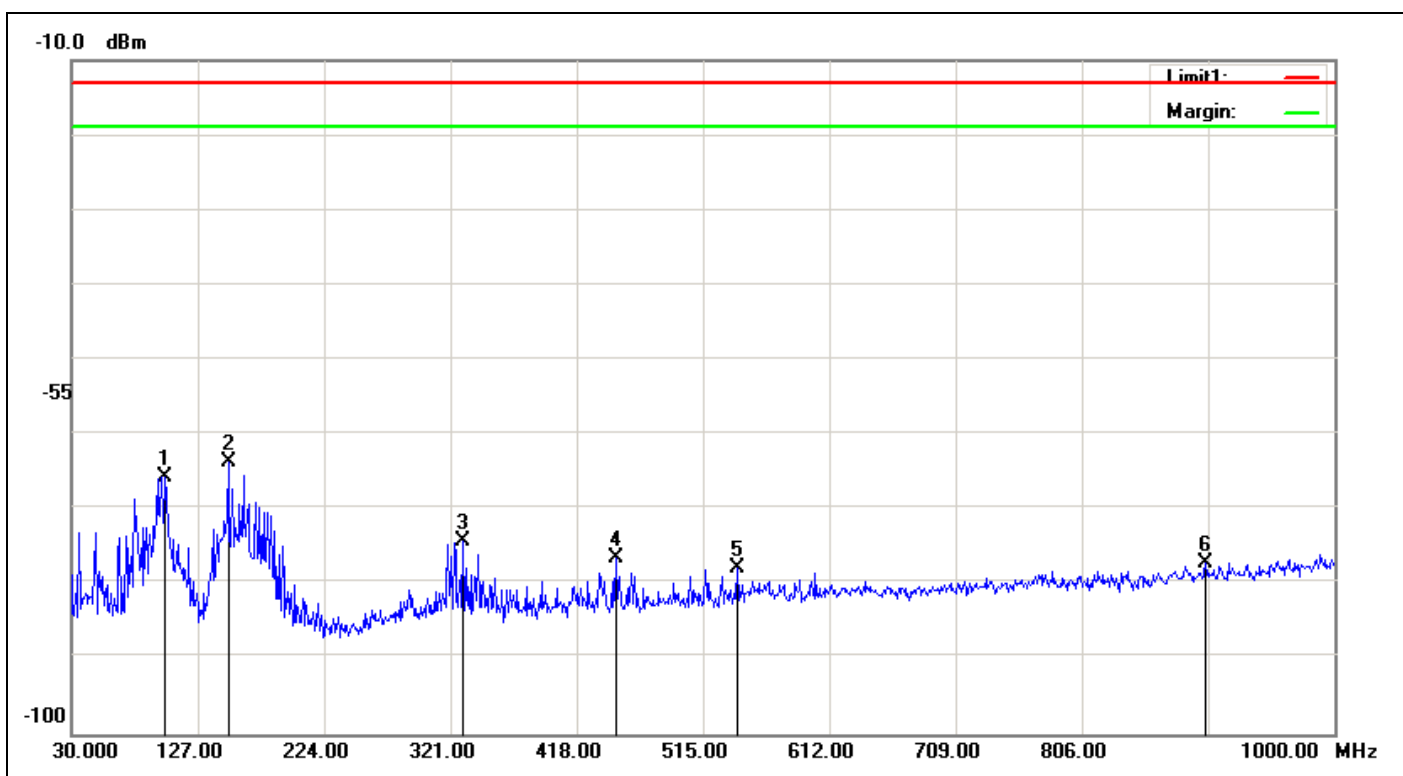


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-64.02	1.03	-0.43	-65.48	-13.00	-52.48	230	174	peak
2	138.6400	-59.21	1.39	-0.38	-60.98	-13.00	-47.98	230	154	peak
3	342.3400	-71.14	2.18	5.8	-67.52	-13.00	-54.52	230	197	peak
4	439.3400	-72.44	2.53	5.9	-69.07	-13.00	-56.07	230	213	peak
5	529.5500	-73.65	2.75	6	-70.40	-13.00	-57.40	230	177	peak
6	768.1700	-77.68	3.26	6.38	-74.56	-13.00	-61.56	230	158	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:23:04
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.8	1.16	-0.64	-65.60	-13.00	-52.60	230	247	peak
2	150.2800	-62.91	1.43	0.71	-63.63	-13.00	-50.63	230	123	peak
3	330.7000	-77.74	2.16	5.71	-74.19	-13.00	-61.19	230	92	peak
4	448.0700	-79.67	2.58	5.74	-76.51	-13.00	-63.51	230	149	peak
5	541.1900	-81.26	2.78	6.25	-77.79	-13.00	-64.79	230	165	peak
6	901.0600	-80.23	3.52	6.6	-77.15	-13.00	-64.15	230	82	peak



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五股實驗室 Wugu LAB

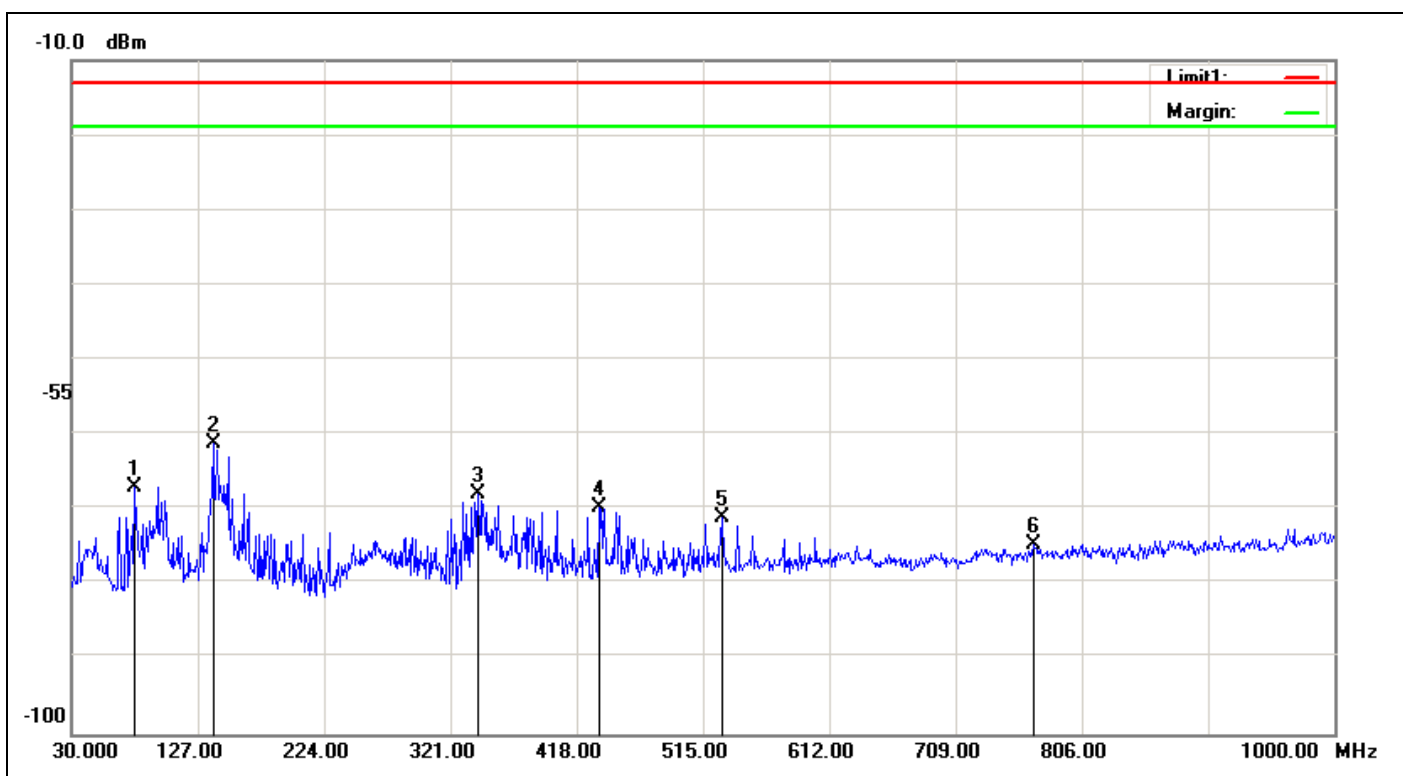
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Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:16:45
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		

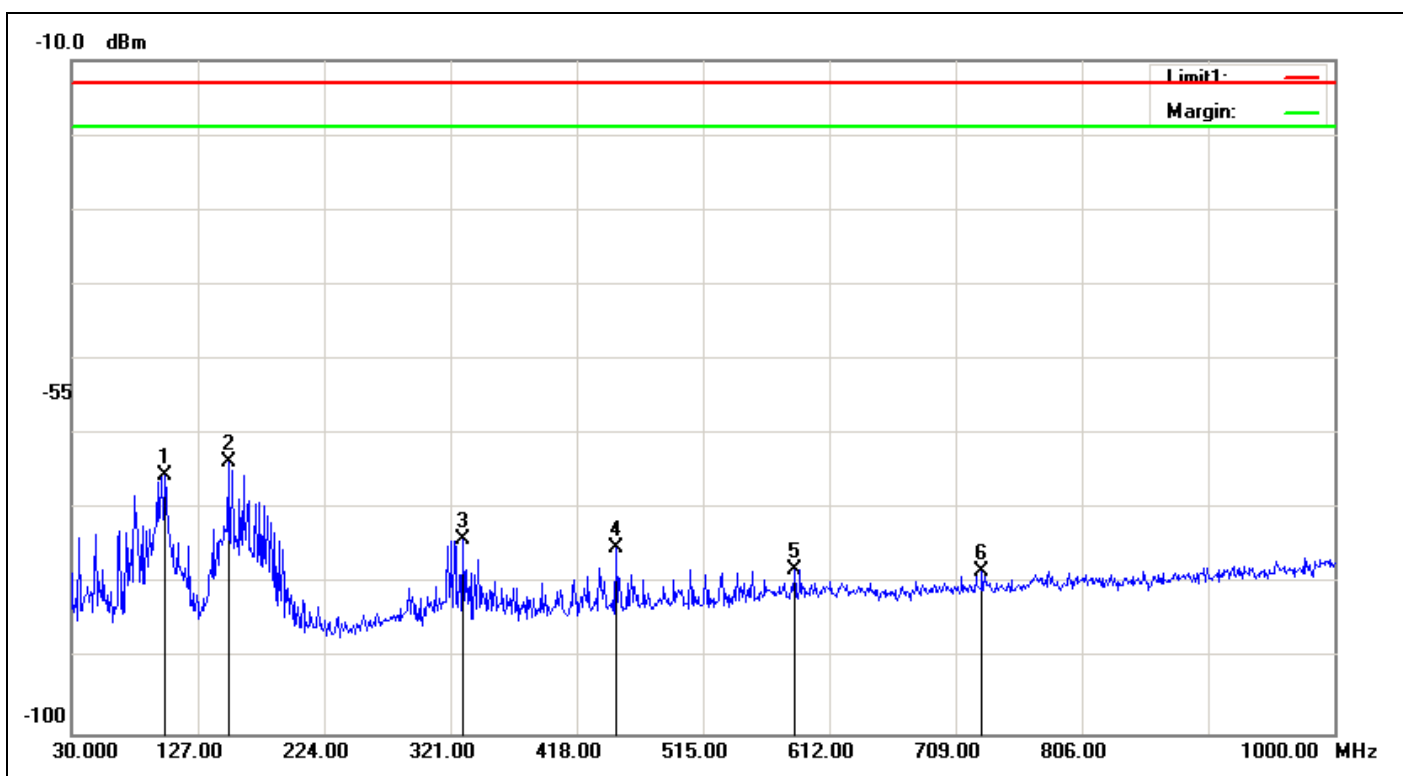


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-65.49	1.03	-0.43	-66.95	-13.00	-53.95	230	172	peak
2	138.6400	-59.43	1.39	-0.38	-61.20	-13.00	-48.20	230	160	peak
3	342.3400	-71.67	2.18	5.8	-68.05	-13.00	-55.05	230	199	peak
4	435.4600	-73.09	2.51	5.86	-69.74	-13.00	-56.74	230	234	peak
5	529.5500	-74.41	2.75	6	-71.16	-13.00	-58.16	230	176	peak
6	769.1400	-77.9	3.27	6.39	-74.78	-13.00	-61.78	230	67	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:29:39
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



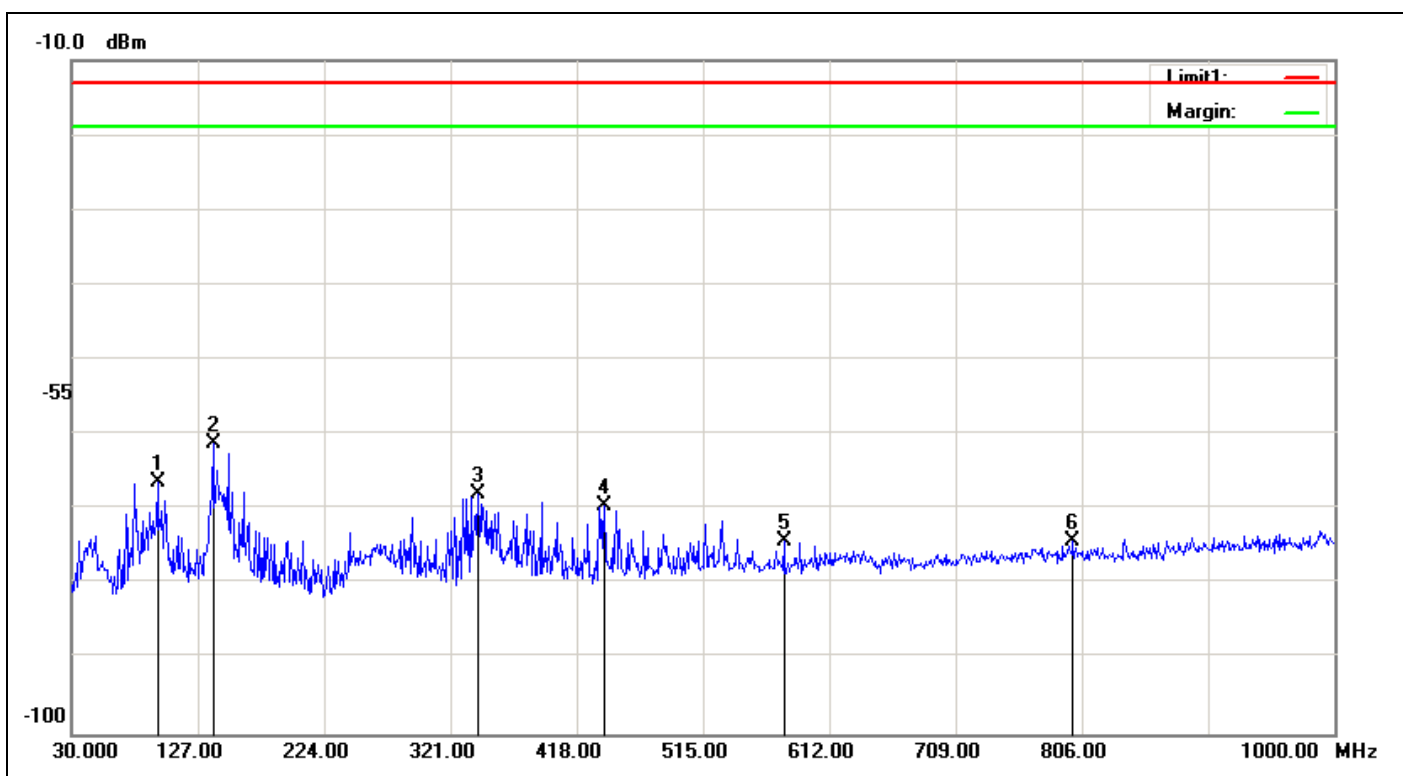
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1	101.7800	-63.73	1.16	-0.64	-65.53	-13.00	-52.53	230	287	peak
2	150.2800	-62.85	1.43	0.71	-63.57	-13.00	-50.57	230	124	peak
3	330.7000	-77.56	2.16	5.71	-74.01	-13.00	-61.01	230	124	peak
4	448.0700	-78.27	2.58	5.74	-75.11	-13.00	-62.11	230	140	peak
5	585.8100	-81.28	2.89	6.11	-78.06	-13.00	-65.06	230	229	peak
6	729.3700	-81.6	3.18	6.4	-78.38	-13.00	-65.38	230	350	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 02:36:08
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	95.9600	-65.52	1.13	0.26	-66.39	-13.00	-53.39	230	128	peak
2	138.6400	-59.39	1.39	-0.38	-61.16	-13.00	-48.16	230	164	peak
3	342.3400	-71.45	2.18	5.8	-67.83	-13.00	-54.83	230	201	peak
4	439.3400	-72.9	2.53	5.9	-69.53	-13.00	-56.53	230	207	peak
5	577.0800	-77.51	2.88	6.04	-74.35	-13.00	-61.35	230	154	peak
6	799.2100	-77.33	3.33	6.49	-74.17	-13.00	-61.17	230	85	peak



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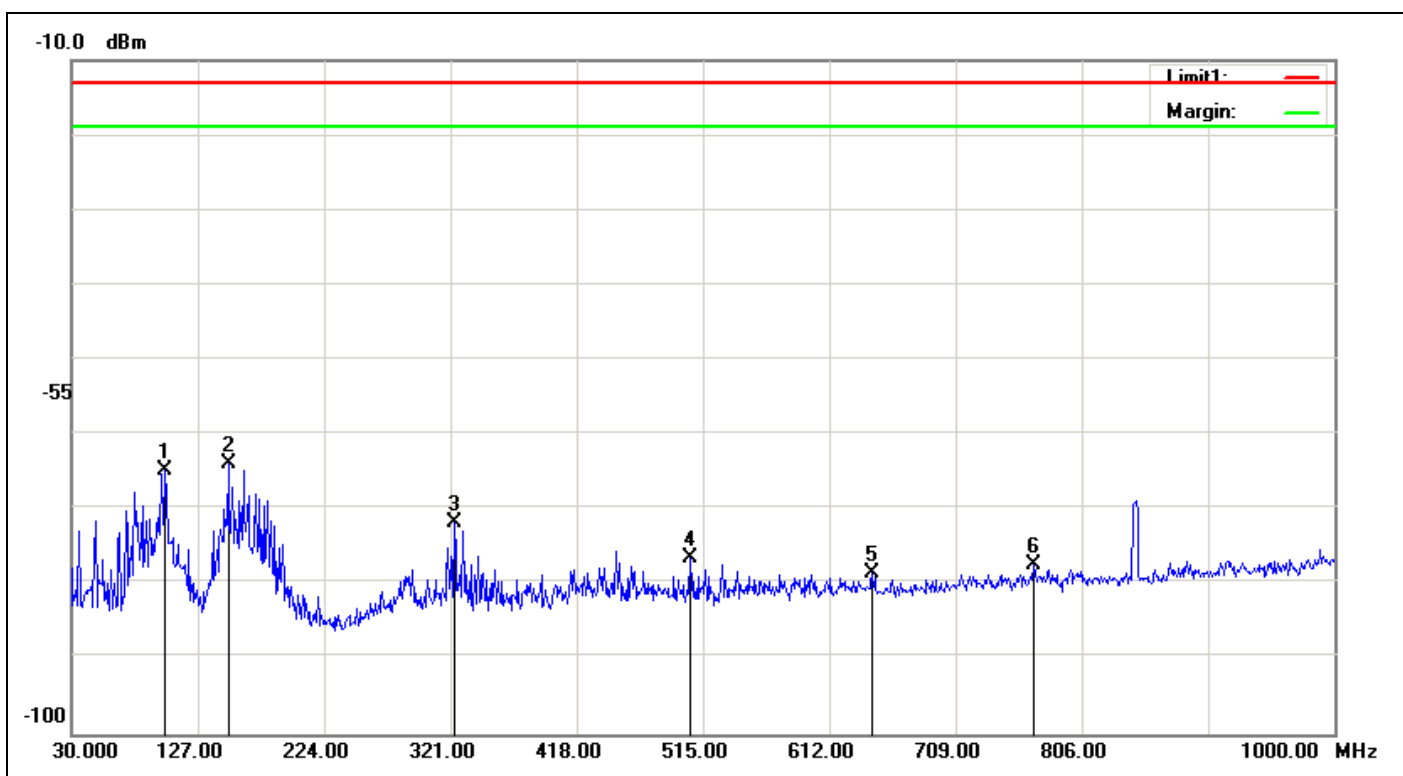
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:27:38
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.02	1.16	-0.64	-64.82	-13.00	-51.82	230	286	peak
2	150.2800	-63.26	1.43	0.71	-63.98	-13.00	-50.98	230	140	peak
3	323.9100	-75.19	2.17	5.7	-71.66	-13.00	-58.66	230	0	peak
4	505.3000	-79.67	2.69	5.95	-76.41	-13.00	-63.41	230	92	peak
5	644.9800	-81.59	3.02	6.19	-78.42	-13.00	-65.42	230	312	peak
6	769.1400	-80.58	3.27	6.39	-77.46	-13.00	-64.46	230	199	peak



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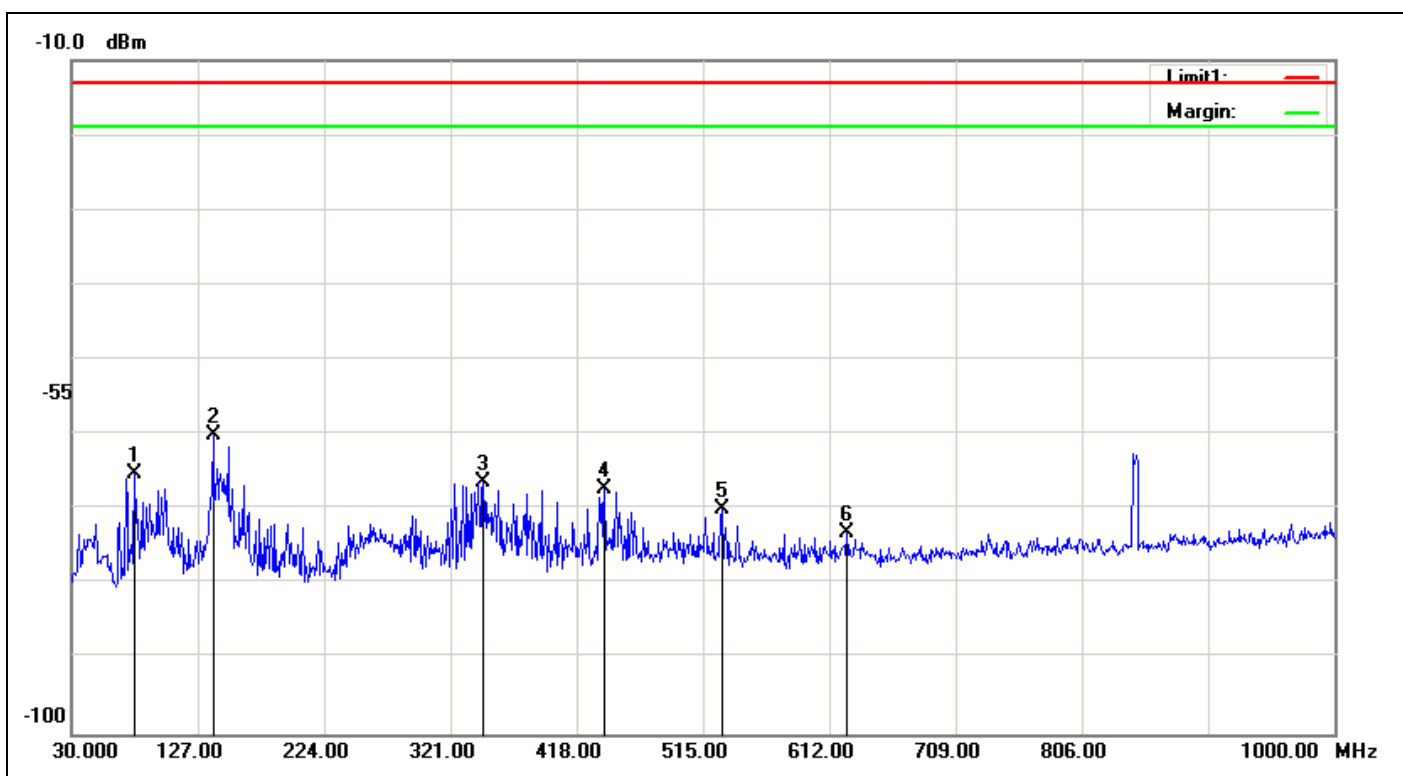
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Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:下午 01:23:16</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4132</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	78.5000	-63.76	1.03	-0.43	-65.22	-13.00	-52.22	230	174	peak
2	138.6400	-58.19	1.39	-0.38	-59.96	-13.00	-46.96	230	9	peak
3	346.2200	-70.03	2.21	5.8	-66.44	-13.00	-53.44	230	190	peak
4	439.3400	-70.57	2.53	5.9	-67.20	-13.00	-54.20	230	211	peak
5	529.5500	-73.31	2.75	6	-70.06	-13.00	-57.06	230	180	peak
6	625.5800	-76.24	2.96	6.16	-73.04	-13.00	-60.04	230	359	peak



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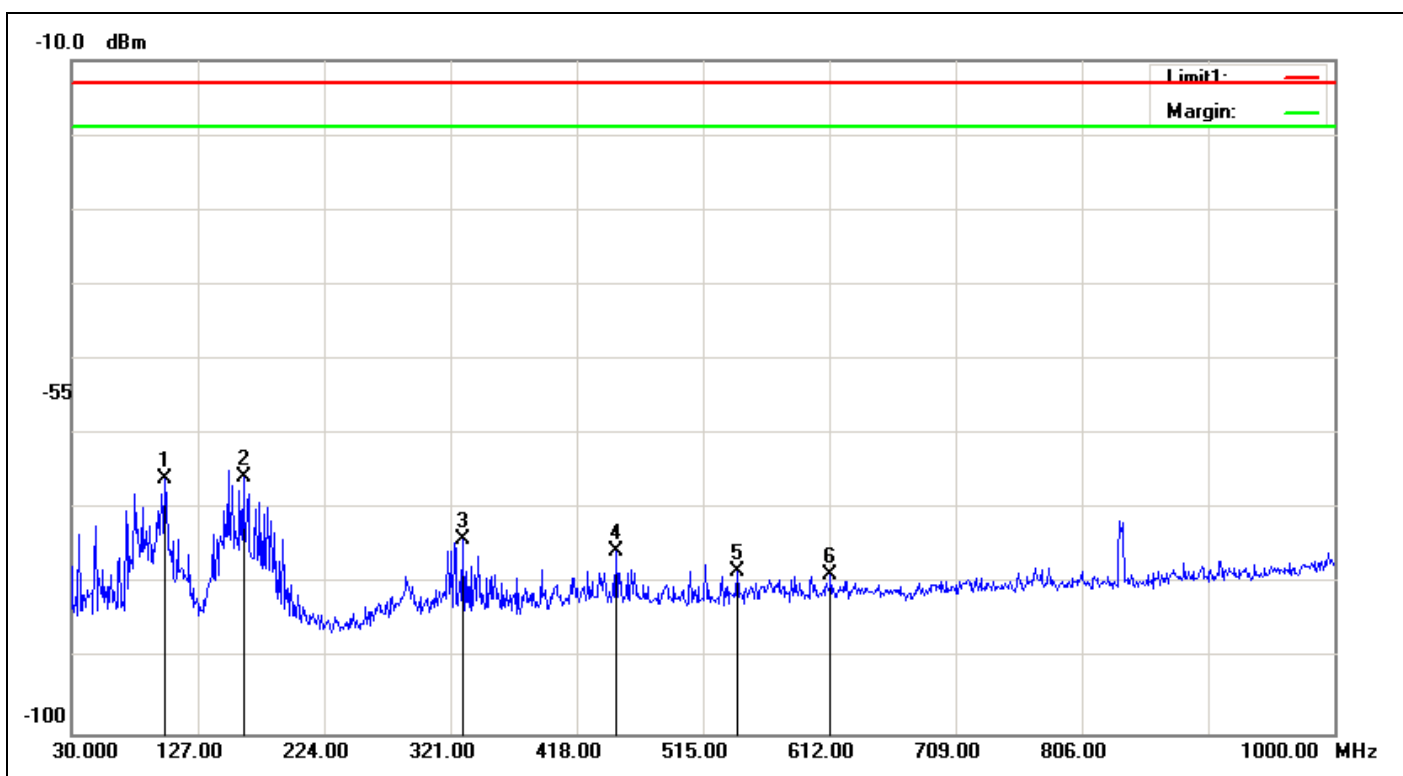
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:35:54
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		

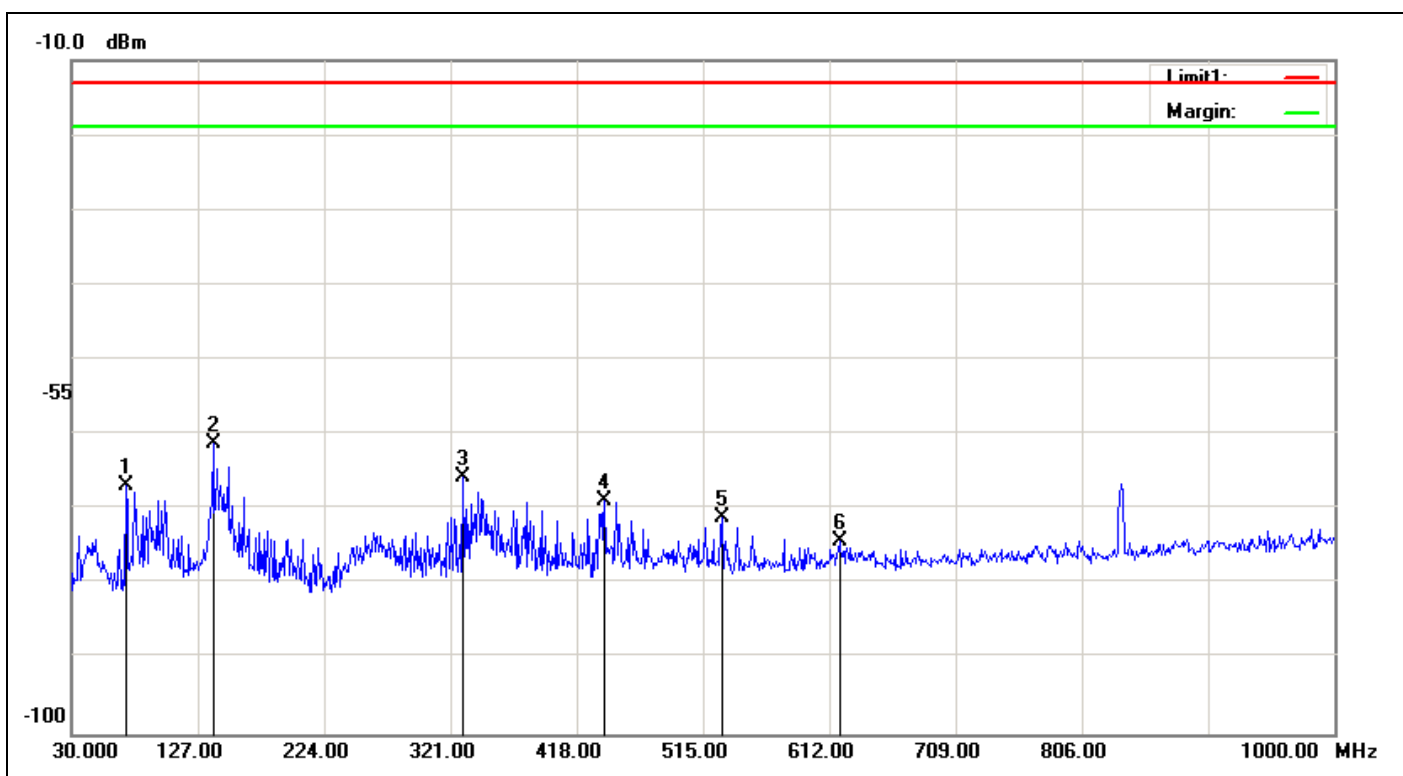


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-64.15	1.16	-0.64	-65.95	-13.00	-52.95	230	306	peak
2	161.9200	-65.82	1.5	1.61	-65.71	-13.00	-52.71	230	137	peak
3	330.7000	-77.54	2.16	5.71	-73.99	-13.00	-60.99	230	95	peak
4	448.0700	-78.72	2.58	5.74	-75.56	-13.00	-62.56	230	143	peak
5	541.1900	-81.66	2.78	6.25	-78.19	-13.00	-65.19	230	143	peak
6	612.9700	-82.07	2.94	6.23	-78.78	-13.00	-65.78	230	271	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:42:53
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	71.7100	-64.17	0.97	-1.61	-66.75	-13.00	-53.75	230	171	peak
2	138.6400	-59.35	1.39	-0.38	-61.12	-13.00	-48.12	230	145	peak
3	330.7000	-69.33	2.16	5.71	-65.78	-13.00	-52.78	230	184	peak
4	439.3400	-72.14	2.53	5.9	-68.77	-13.00	-55.77	230	222	peak
5	529.5500	-74.4	2.75	6	-71.15	-13.00	-58.15	230	174	peak
6	619.7600	-77.39	2.94	6.11	-74.22	-13.00	-61.22	230	251	peak



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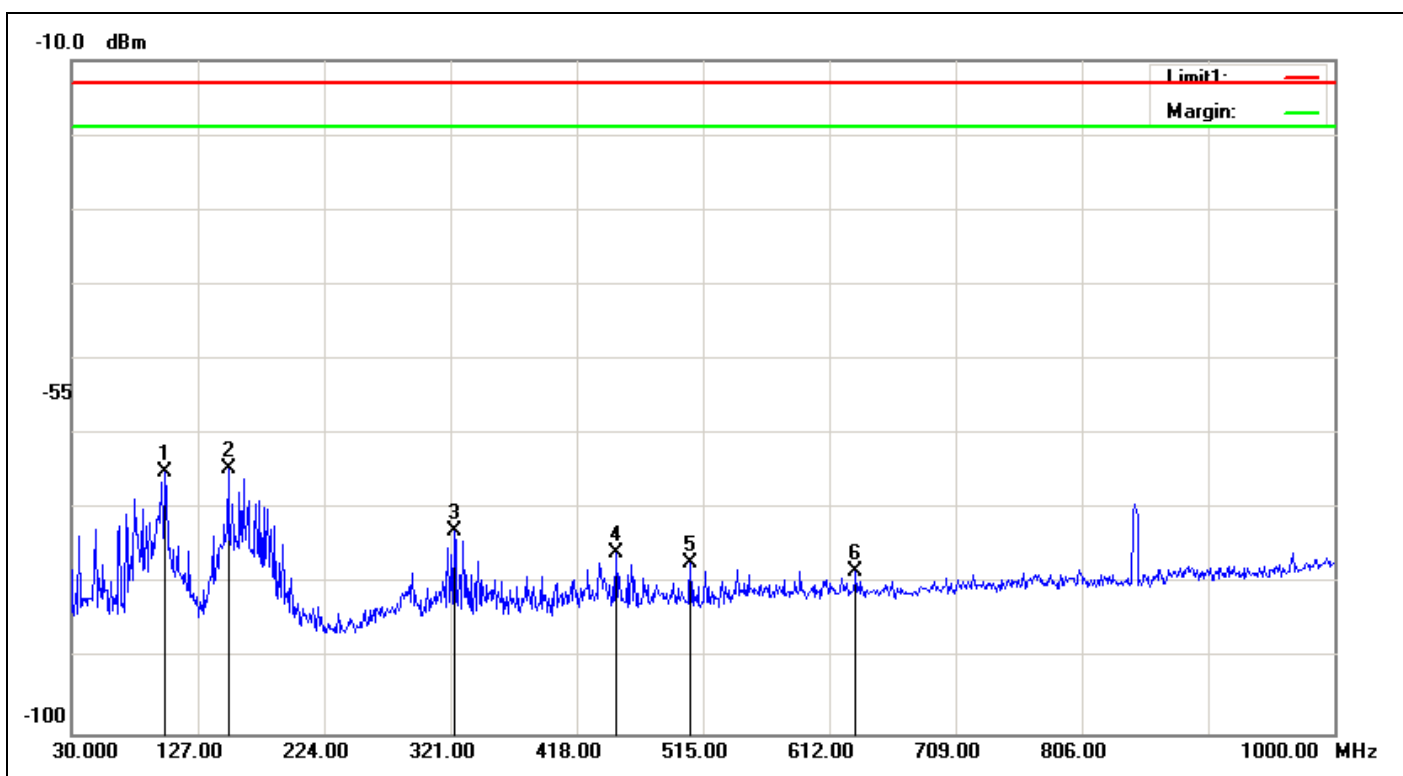
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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/20</b>	<b>Time:下午 01:56:33</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4233</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	101.7800	-63.28	1.16	-0.64	-65.08	-13.00	-52.08	230	244	peak
2	150.2800	-63.94	1.43	0.71	-64.66	-13.00	-51.66	230	132	peak
3	323.9100	-76.38	2.17	5.7	-72.85	-13.00	-59.85	230	6	peak
4	448.0700	-78.94	2.58	5.74	-75.78	-13.00	-62.78	230	154	peak
5	505.3000	-80.37	2.69	5.95	-77.11	-13.00	-64.11	230	84	peak
6	632.3700	-81.46	2.98	6.19	-78.25	-13.00	-65.25	230	297	peak



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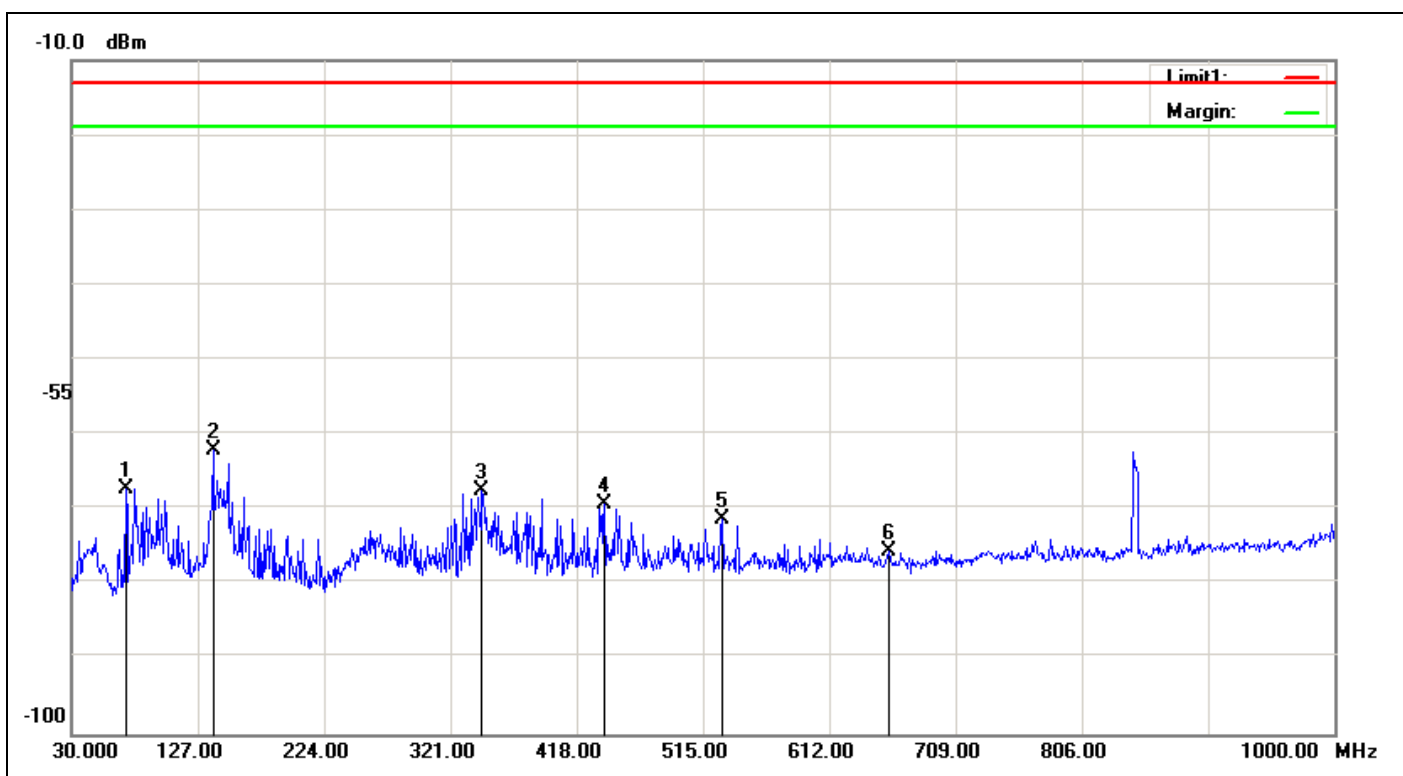
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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/20	Time:下午 01:50:01
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	71.7100	-64.67	0.97	-1.61	-67.25	-13.00	-54.25	230	157	peak
2	138.6400	-60.27	1.39	-0.38	-62.04	-13.00	-49.04	230	1	peak
3	345.2500	-71.03	2.2	5.8	-67.43	-13.00	-54.43	230	166	peak
4	439.3400	-72.68	2.53	5.9	-69.31	-13.00	-56.31	230	218	peak
5	529.5500	-74.54	2.75	6	-71.29	-13.00	-58.29	230	176	peak
6	657.5900	-78.79	3.05	6.3	-75.54	-13.00	-62.54	230	125	peak



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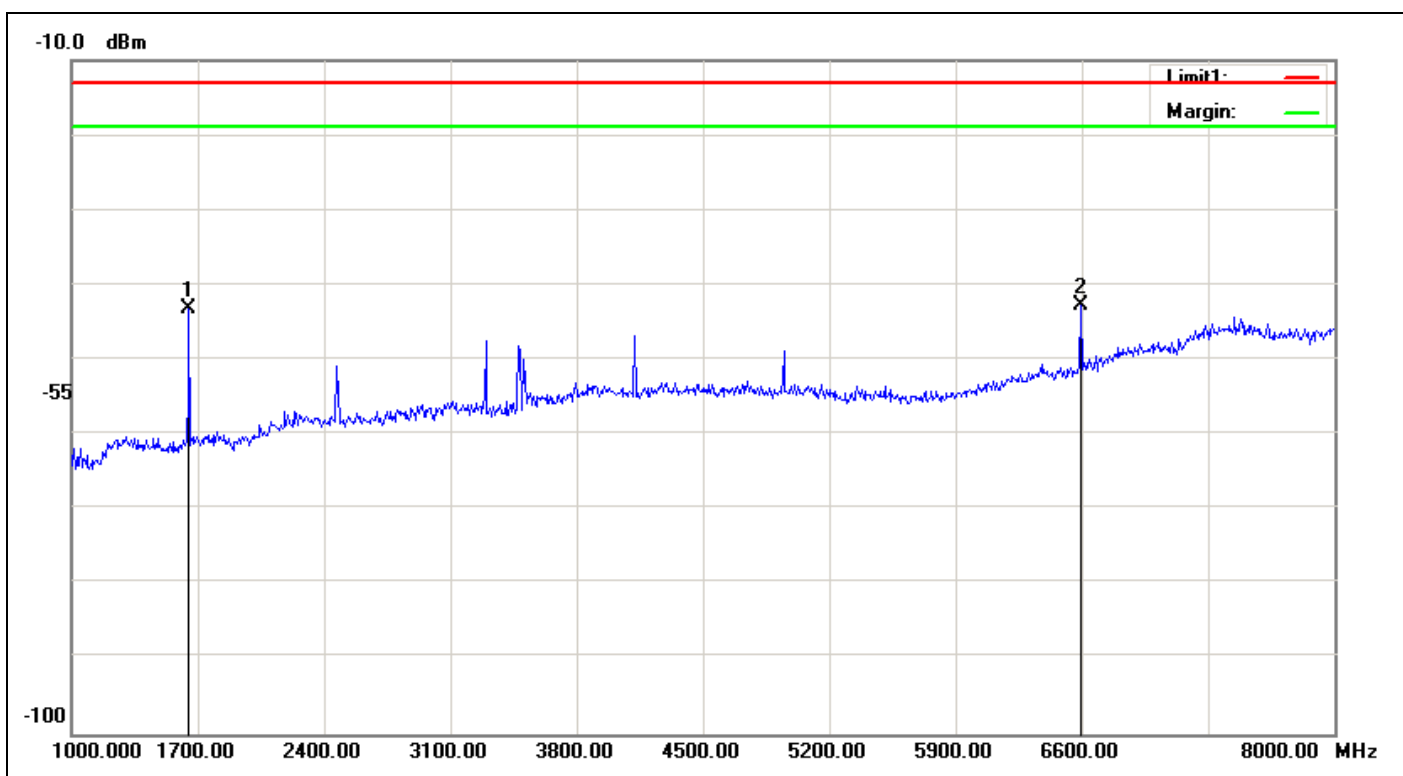
Tel:+886-2-2299-4086

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 06:57:03
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-44.14	5.05	6.03	-43.16	-13.00	-30.16	230	231	peak
2	6593.000	-42.92	11.22	11.41	-42.73	-13.00	-29.73	230	191	peak





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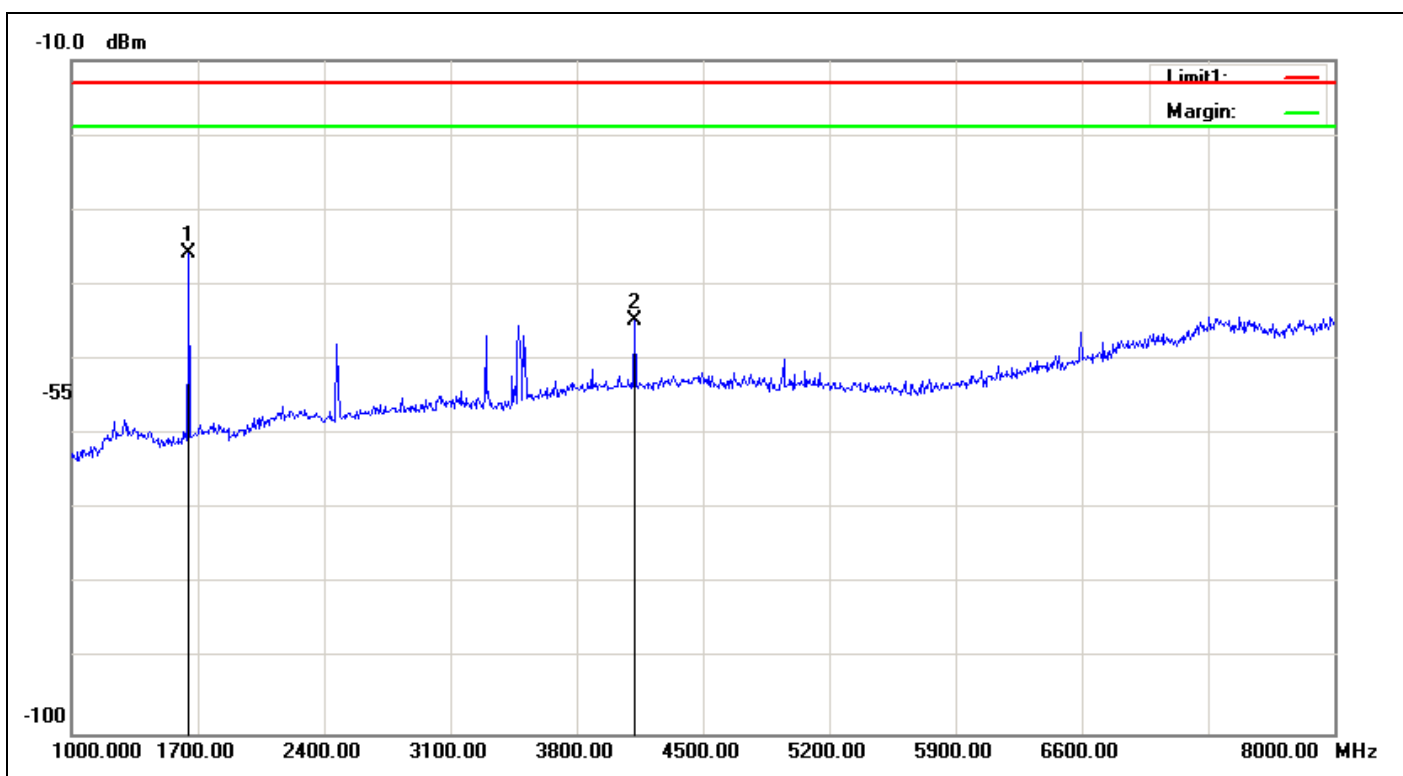
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 06:54:05
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-36.84	5.05	6.03	-35.86	-13.00	-22.86	230	351	peak
2	4122.000	-45.89	8.47	9.5	-44.86	-13.00	-31.86	230	54	peak



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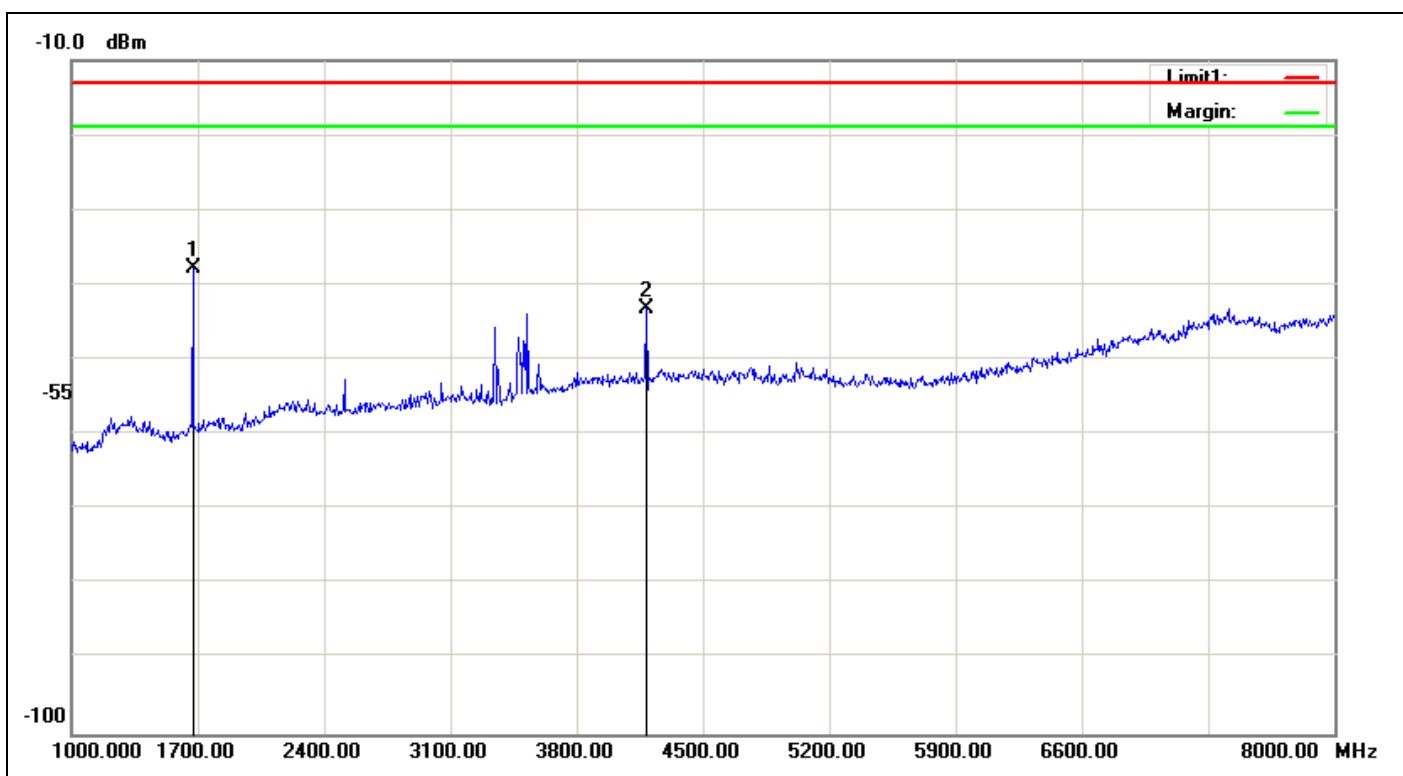
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/18</b>	<b>Time:下午 06:49:08</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-190</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-38.65	5.07	5.99	-37.73	-13.00	-24.73	230	357	peak
2	4185.000	-44.33	8.49	9.55	-43.27	-13.00	-30.27	230	56	peak



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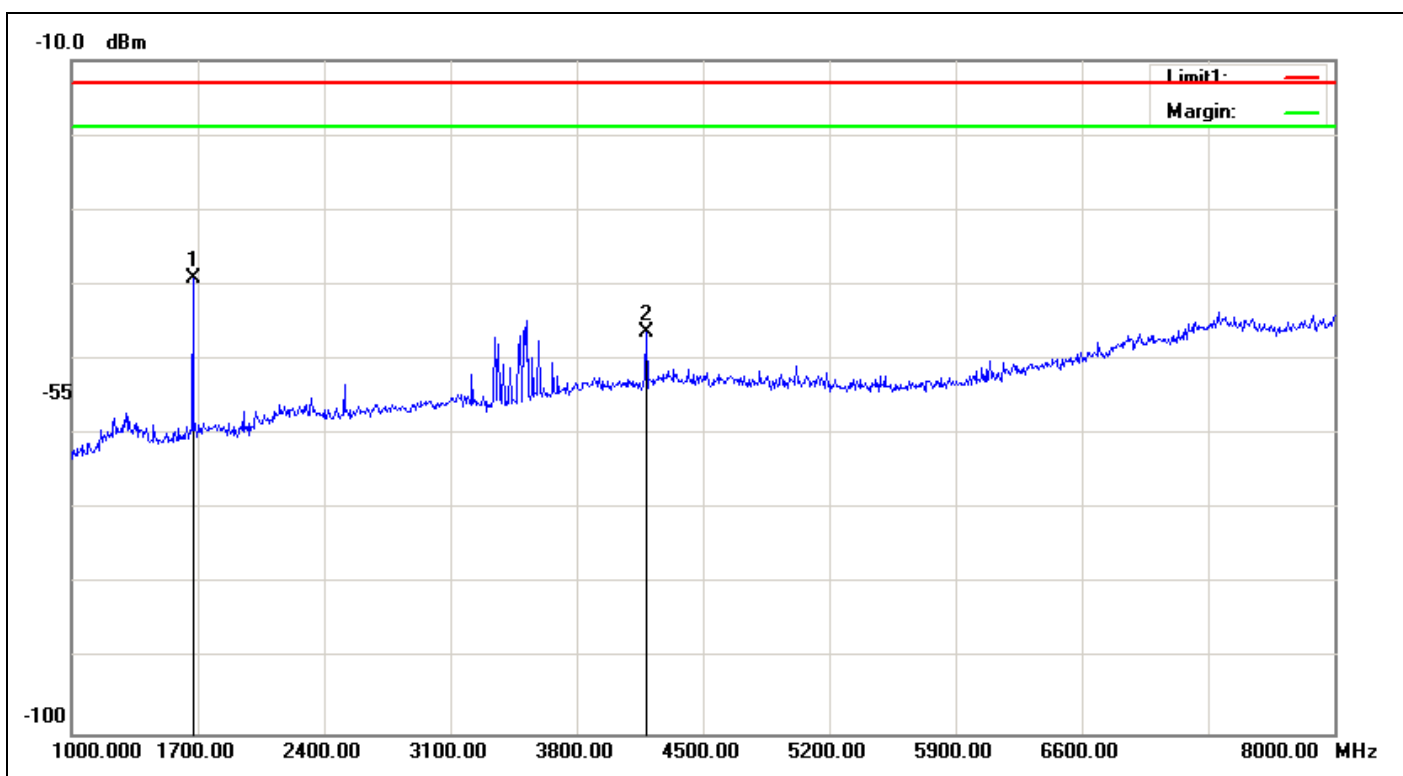
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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 06:51:31
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-40.02	5.07	5.99	-39.10	-13.00	-26.10	230	344	peak
2	4185.000	-47.37	8.49	9.55	-46.31	-13.00	-33.31	230	58	peak



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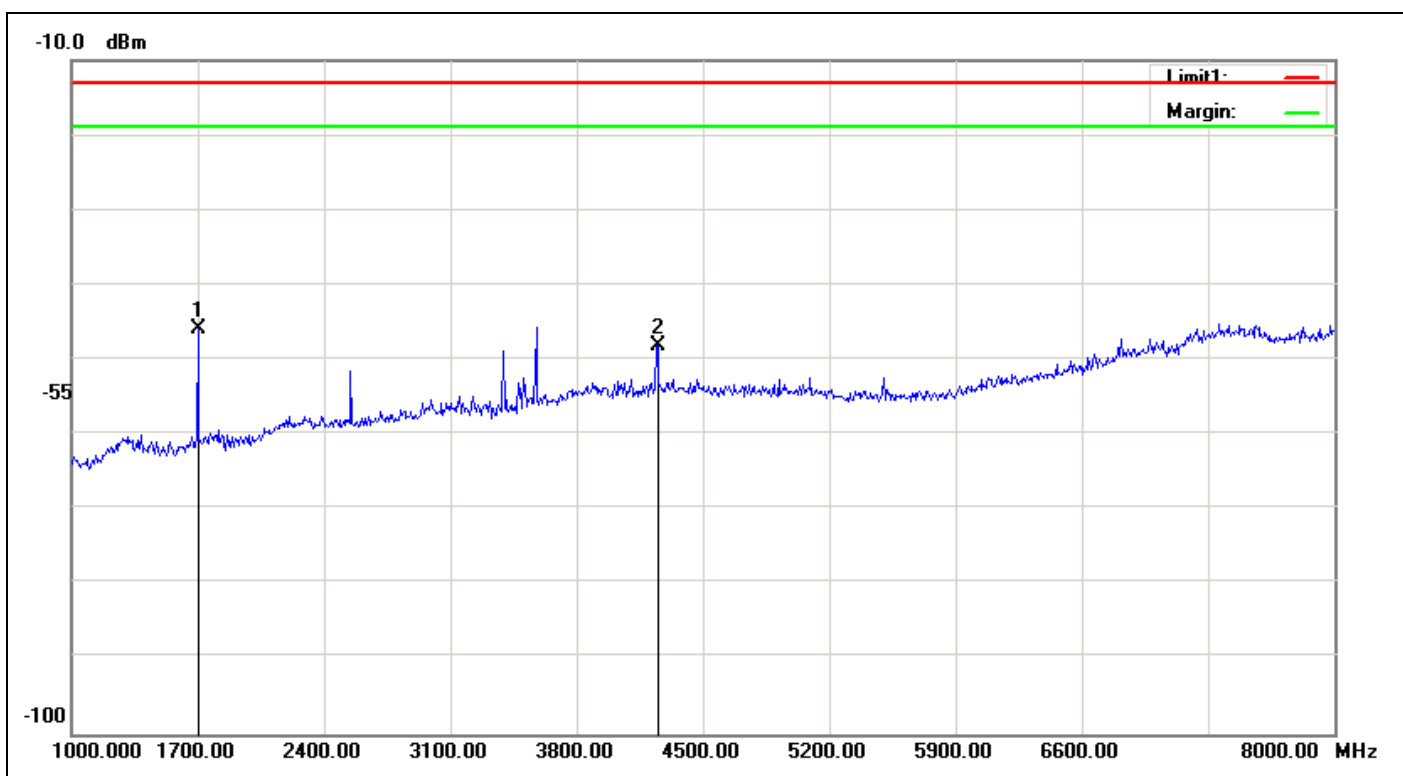
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Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/18</b>	<b>Time:下午 06:59:22</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-251</b>		

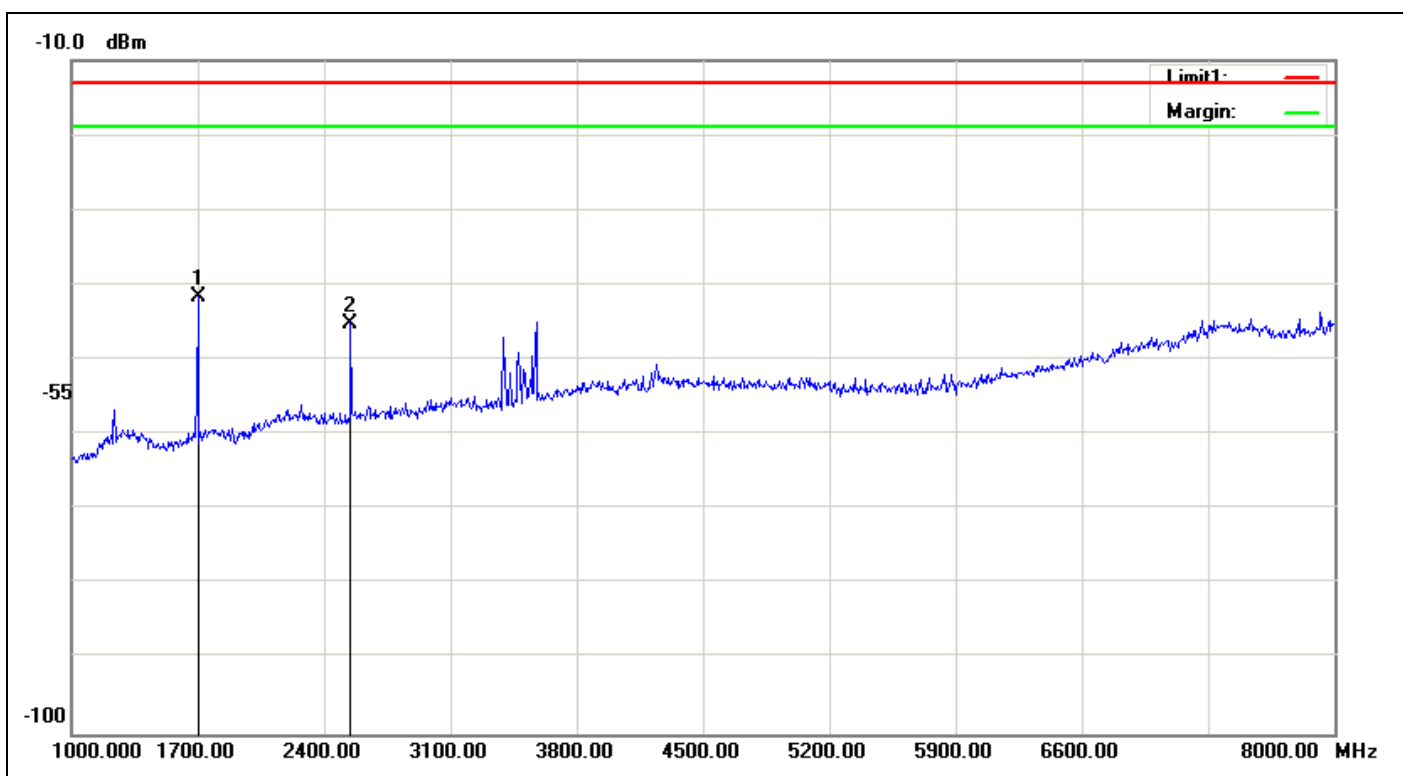


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1700.000	-46.76	5.11	5.94	-45.93	-13.00	-32.93	230	225	peak
2	4248.000	-49.17	8.54	9.6	-48.11	-13.00	-35.11	230	338	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/18</b>	<b>Time:下午 07:01:20</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-251</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1700.000	-42.4	5.11	5.94	-41.57	-13.00	-28.57	230	5	peak
2	2547.000	-44.9	6.42	6.22	-45.10	-13.00	-32.10	230	185	peak



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No.139, Wugong Rd., Wugu Township, Taipei Country 24891, Taiwan.

五股實驗室 Wugu LAB

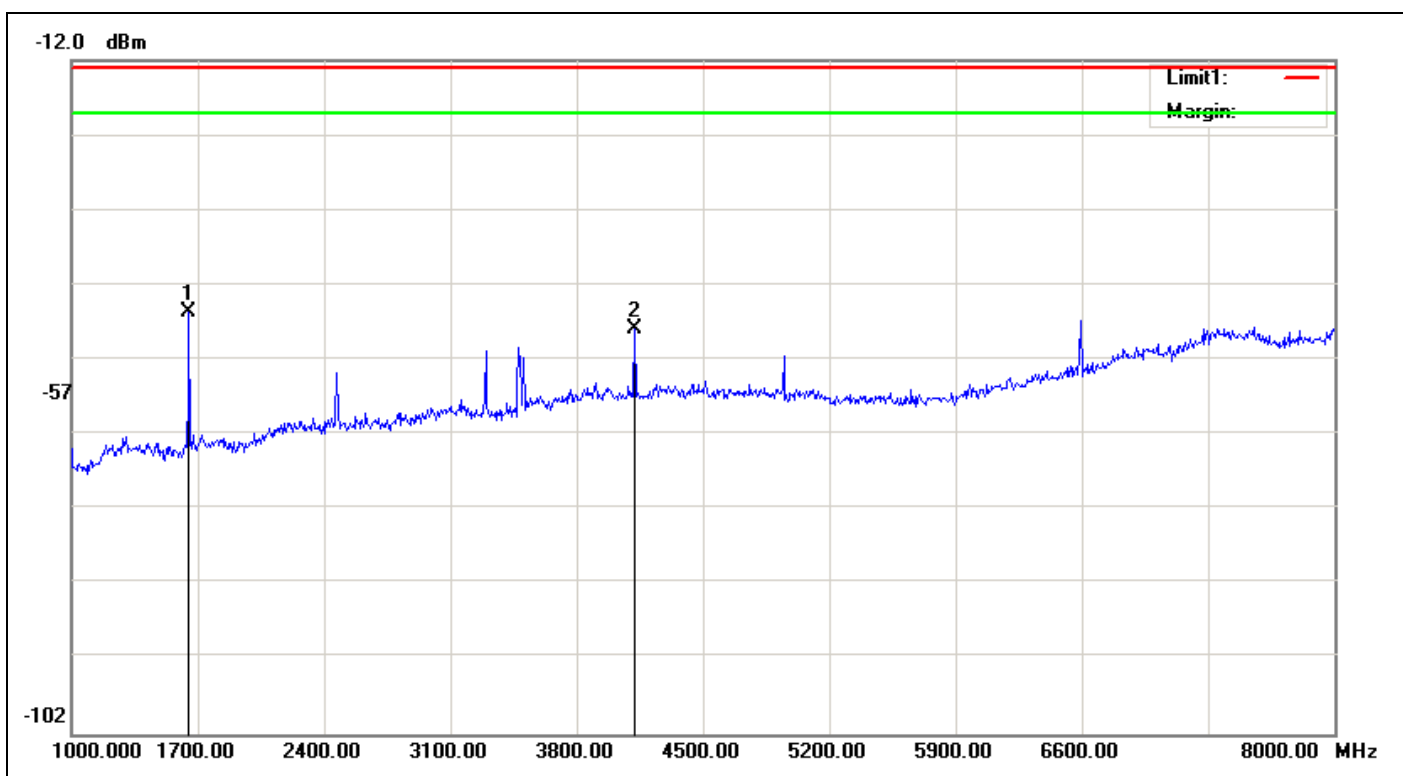
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:25:42
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		

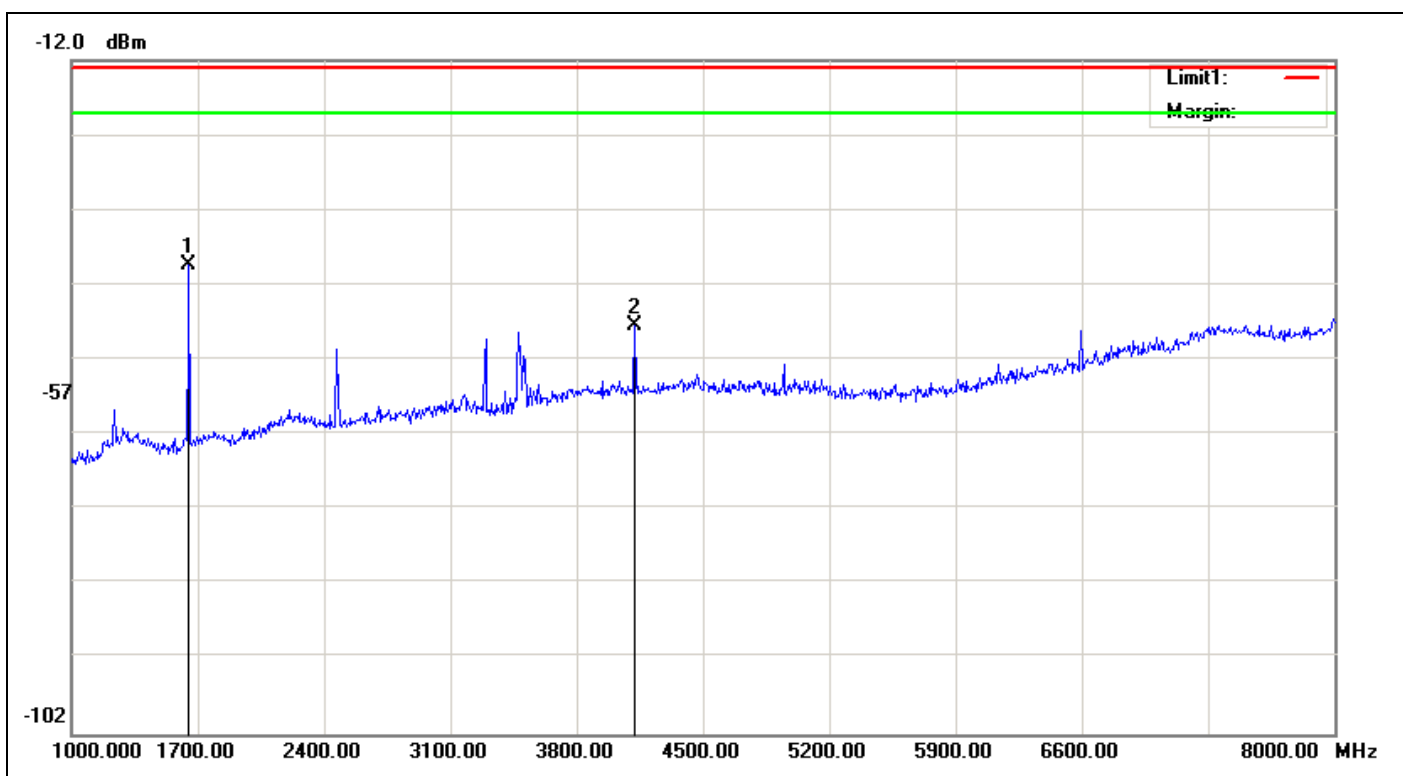


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-46.68	5.05	6.03	-45.70	-13.00	-32.70	230	232	peak
2	4122.000	-48.91	8.47	9.5	-47.88	-13.00	-34.88	230	174	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:23:39
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-40.26	5.05	6.03	-39.28	-13.00	-26.28	230	355	peak
2	4122.000	-48.4	8.47	9.5	-47.37	-13.00	-34.37	230	246	peak



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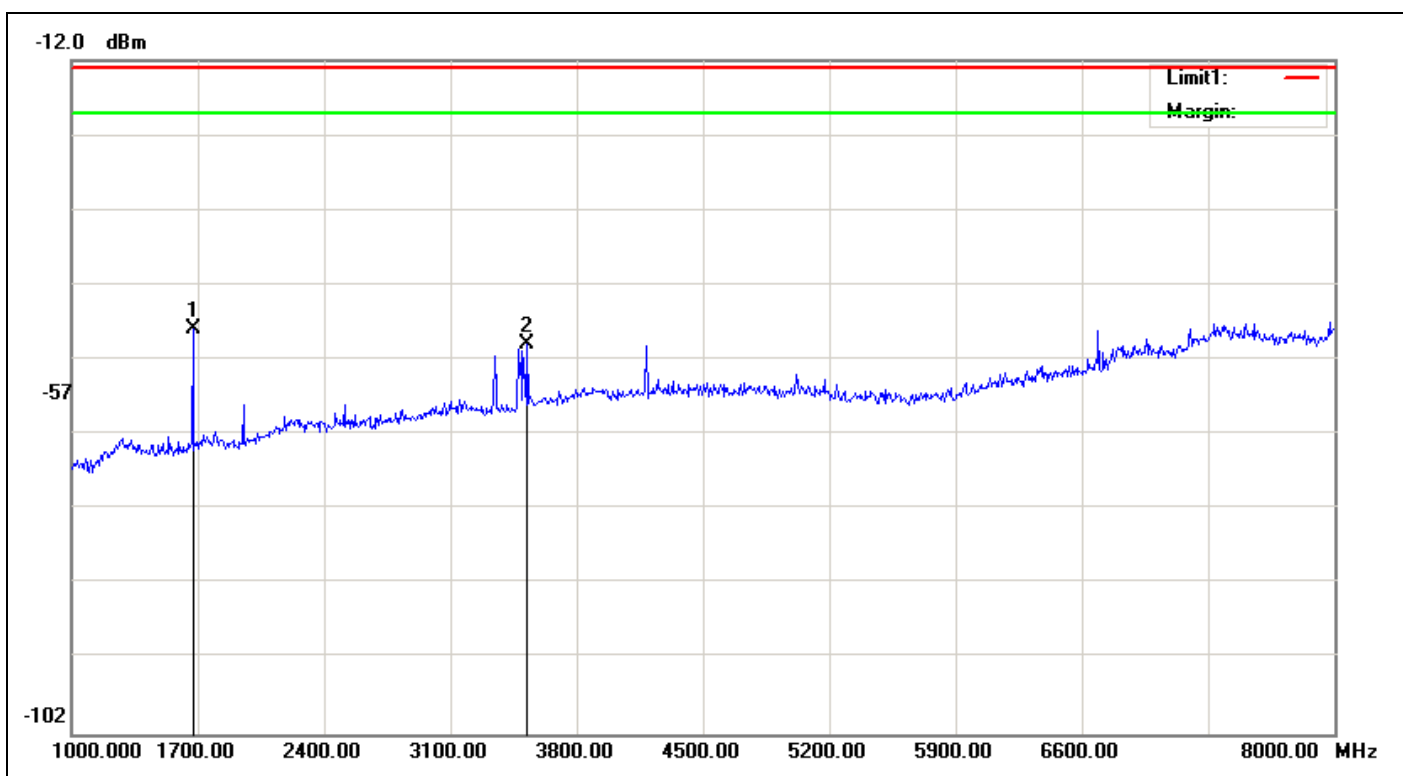
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/18</b>	<b>Time:下午 07:15:30</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-190</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-48.82	5.07	5.99	-47.90	-13.00	-34.90	230	274	peak
2	3527.000	-50.98	7.93	8.93	-49.98	-13.00	-36.98	230	207	peak





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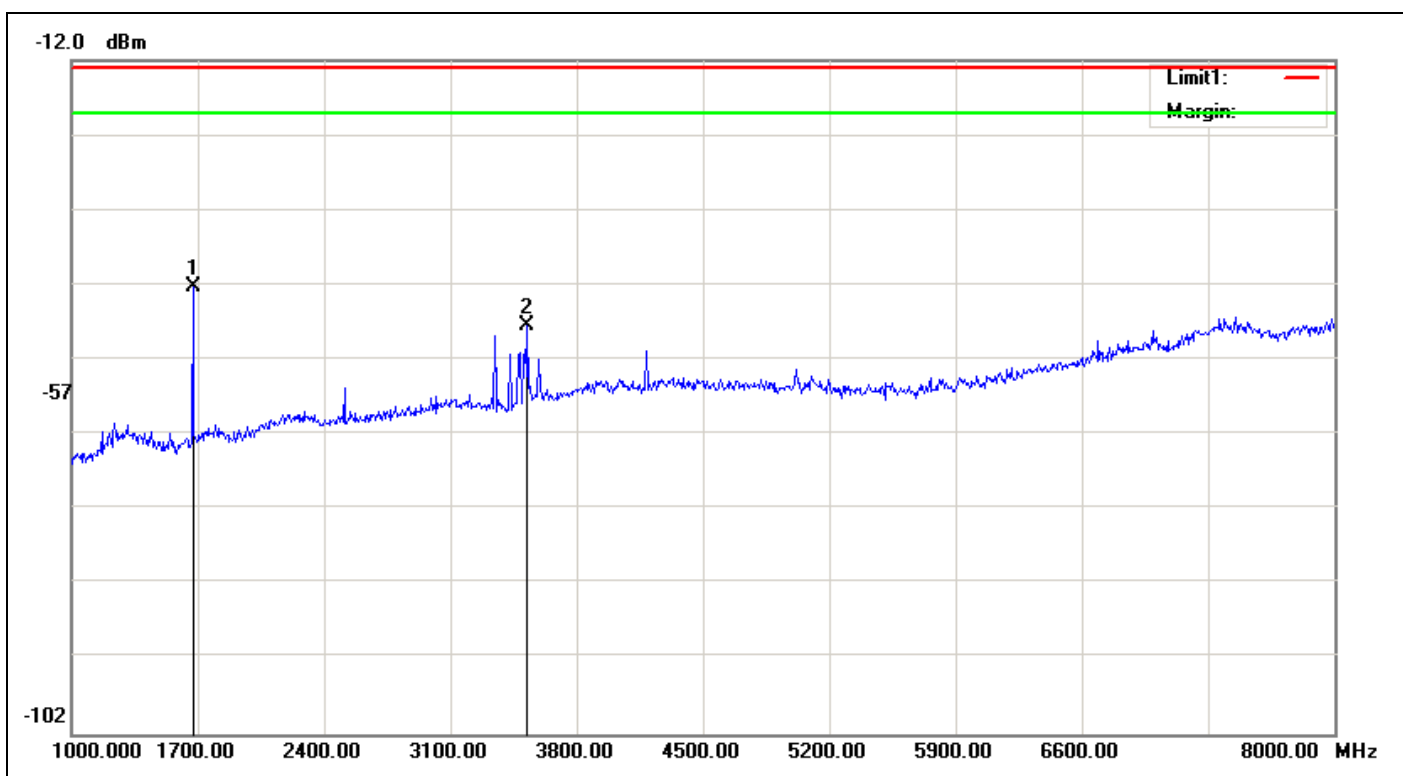
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/18</b>	<b>Time:下午 07:19:34</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>850-190</b>		

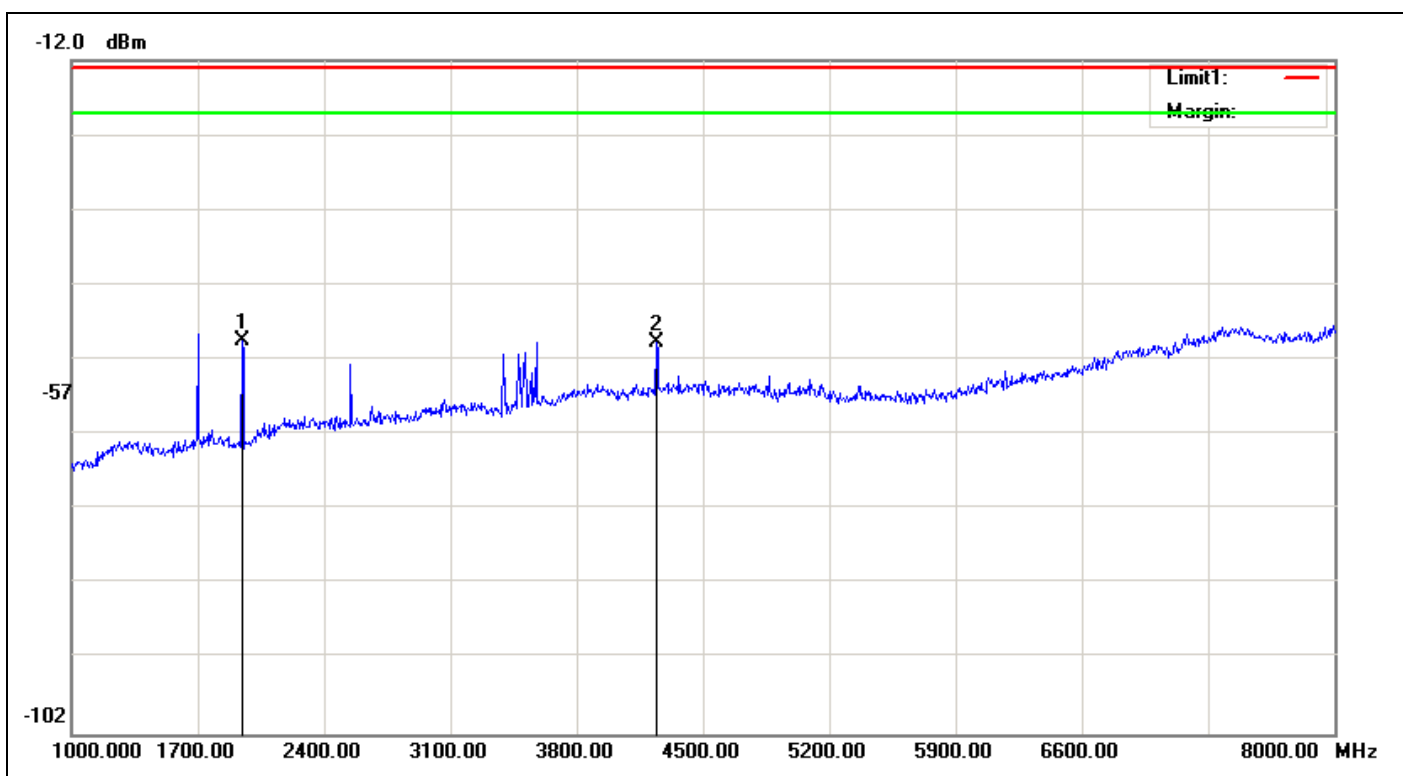


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-43.2	5.07	5.99	-42.28	-13.00	-29.28	230	339	peak
2	3527.000	-48.53	7.93	8.93	-47.53	-13.00	-34.53	230	71	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:10:58
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1945.000	-49.48	5.57	5.5	-49.55	-13.00	-36.55	230	116	peak
2	4241.000	-50.73	8.54	9.59	-49.68	-13.00	-36.68	230	342	peak



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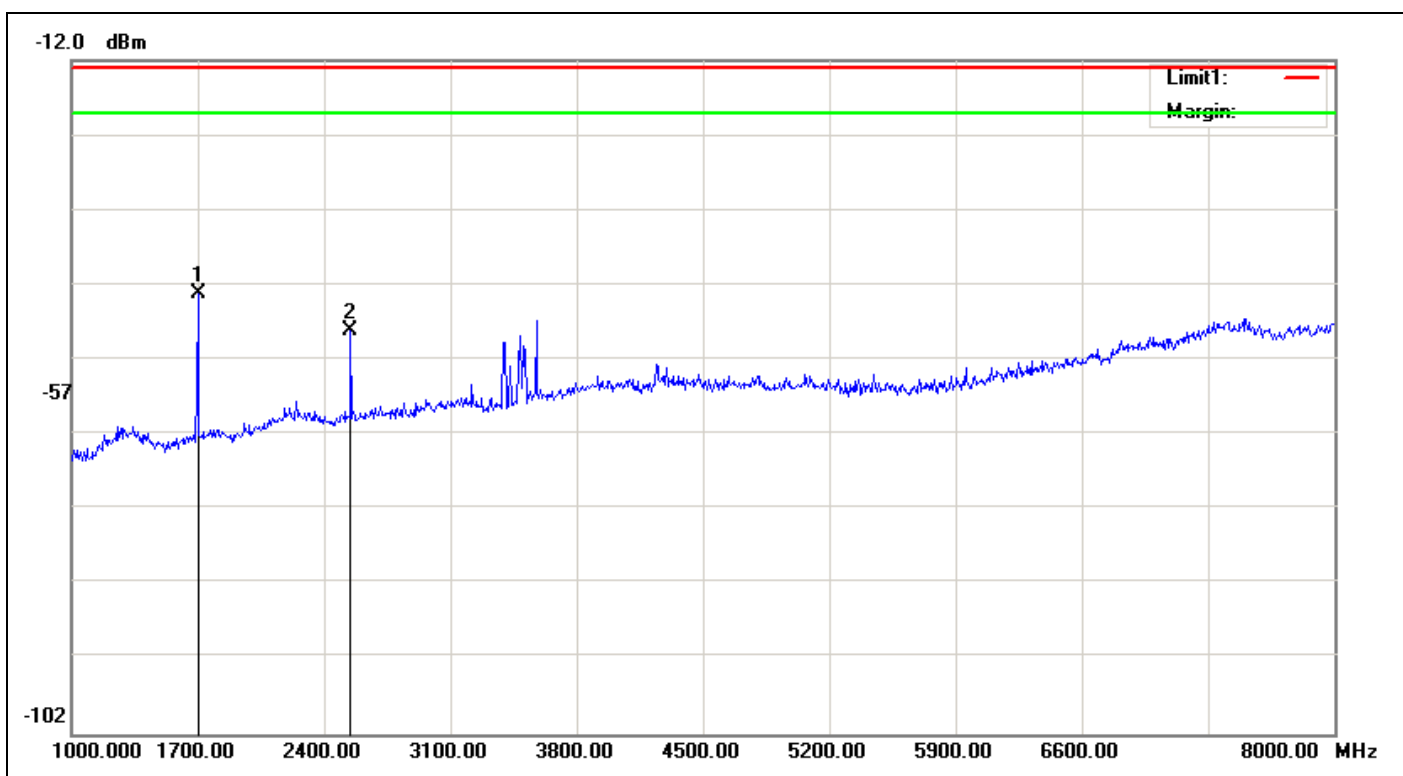
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:03:33
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1700.000	-44.06	5.11	5.94	-43.23	-13.00	-30.23	230	7	peak
2	2547.000	-47.96	6.42	6.22	-48.16	-13.00	-35.16	230	185	peak



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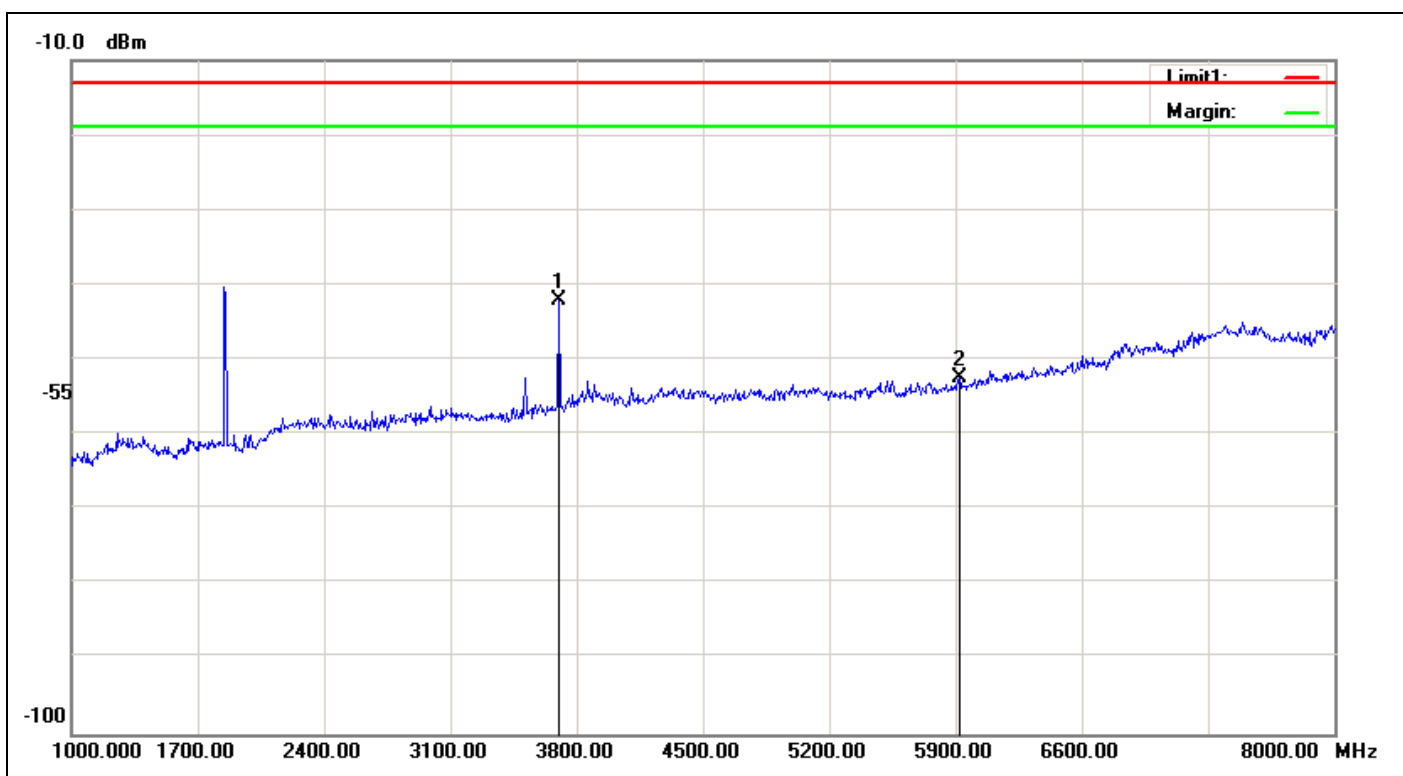
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:52:30
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-42.99	8.2	9.1	-42.09	-13.00	-29.09	230	154	peak
2	5921.000	-52.88	10.49	10.88	-52.49	-13.00	-39.49	230	53	peak



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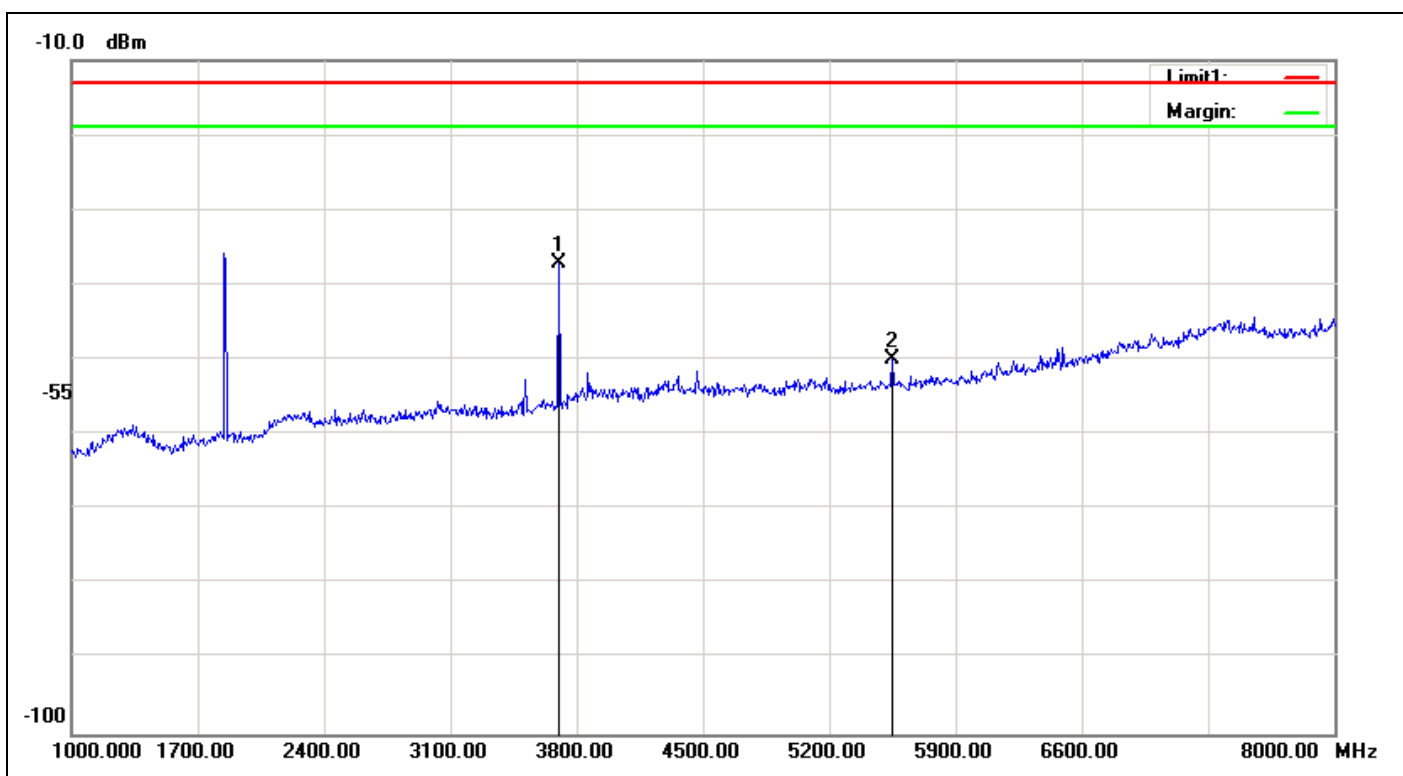
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:54:34</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-512</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-37.92	8.2	9.1	-37.02	-13.00	-24.02	230	196	peak
2	5550.000	-50.76	10.06	10.81	-50.01	-13.00	-37.01	230	117	peak



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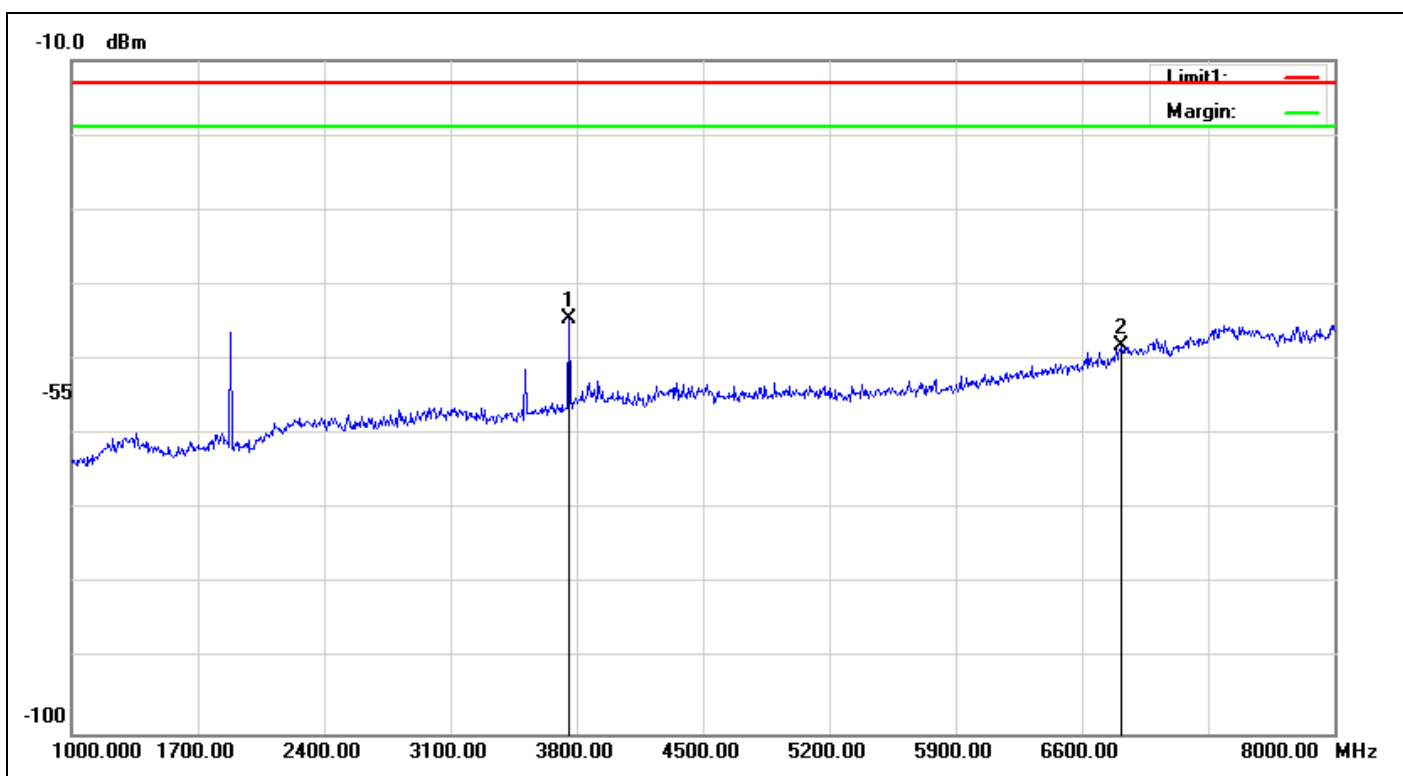
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:50:15
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		

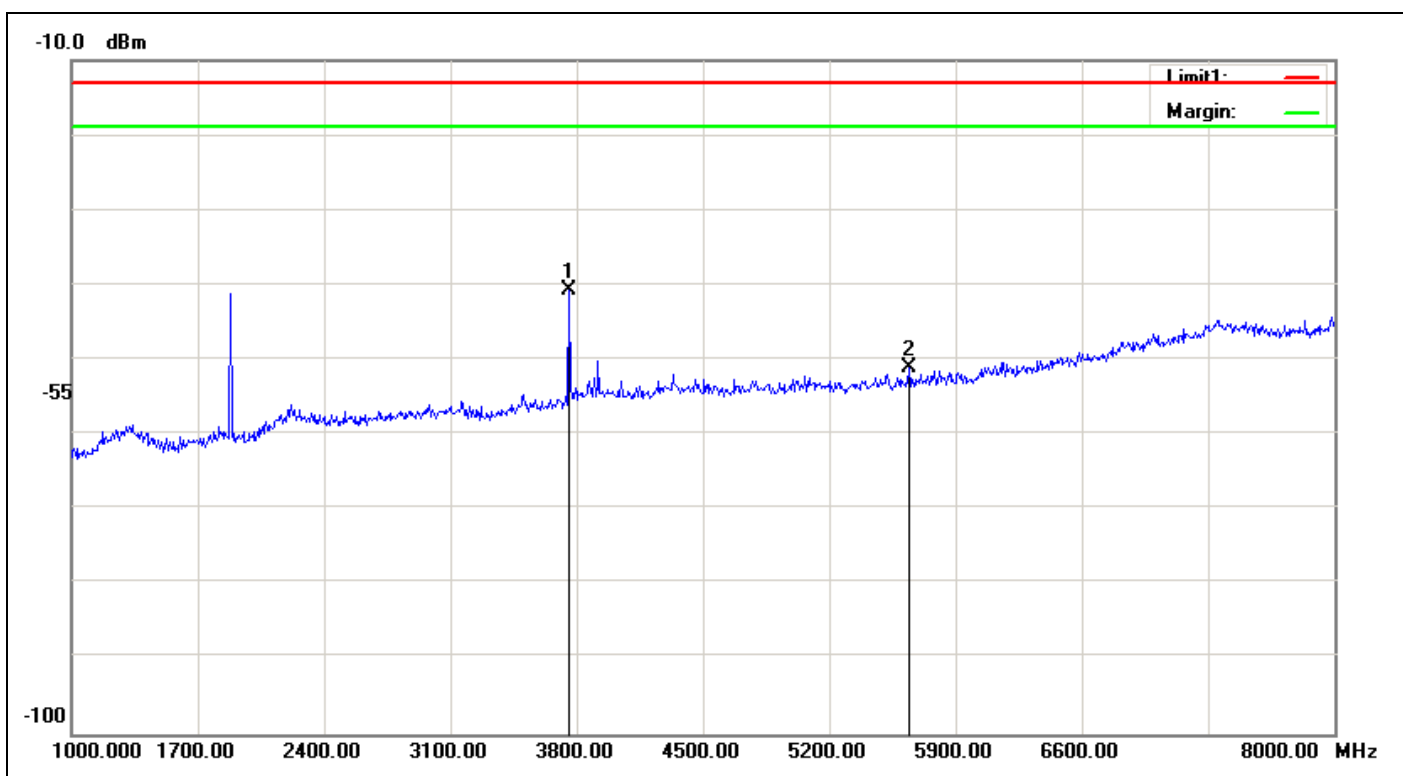


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-45.52	8.23	9.16	-44.59	-13.00	-31.59	230	21	peak
2	6817.000	-48.37	11.34	11.68	-48.03	-13.00	-35.03	230	42	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:48:13</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-661</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-41.74	8.23	9.16	-40.81	-13.00	-27.81	230	275	peak
2	5641.000	-51.7	10.18	10.83	-51.05	-13.00	-38.05	230	86	peak



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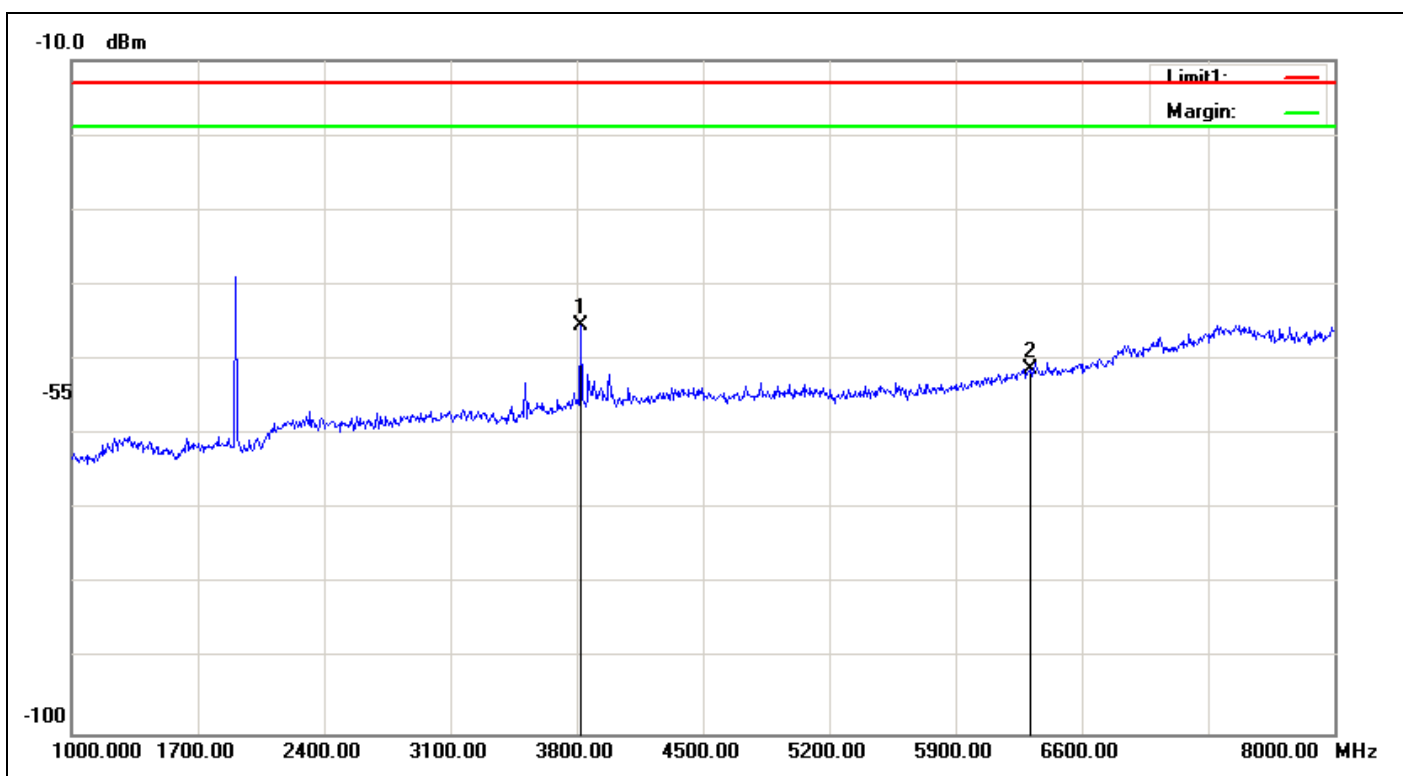
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:43:38</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3821.000	-46.29	8.29	9.22	-45.36	-13.00	-32.36	230	159	peak
2	6313.000	-51.59	10.81	11.15	-51.25	-13.00	-38.25	230	5	peak





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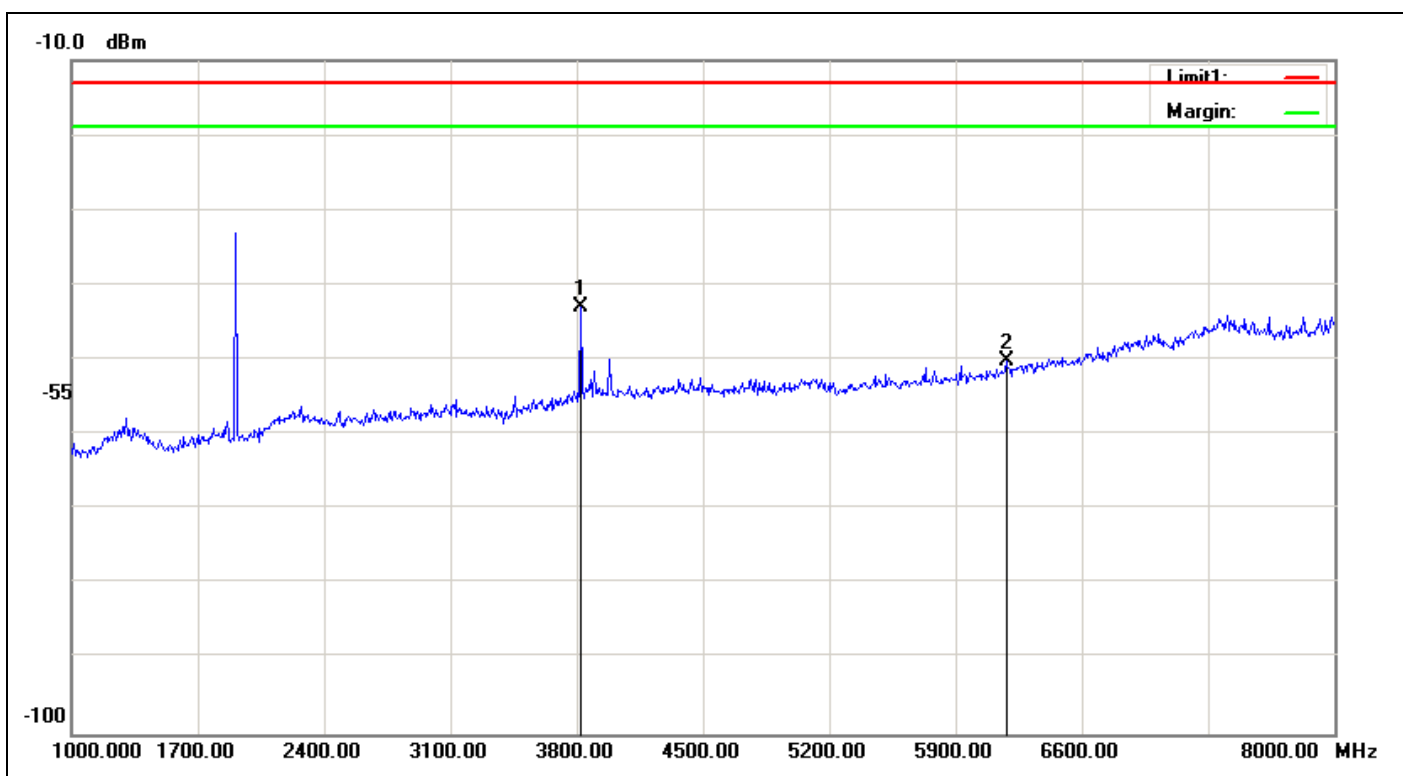
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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:45:57</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		

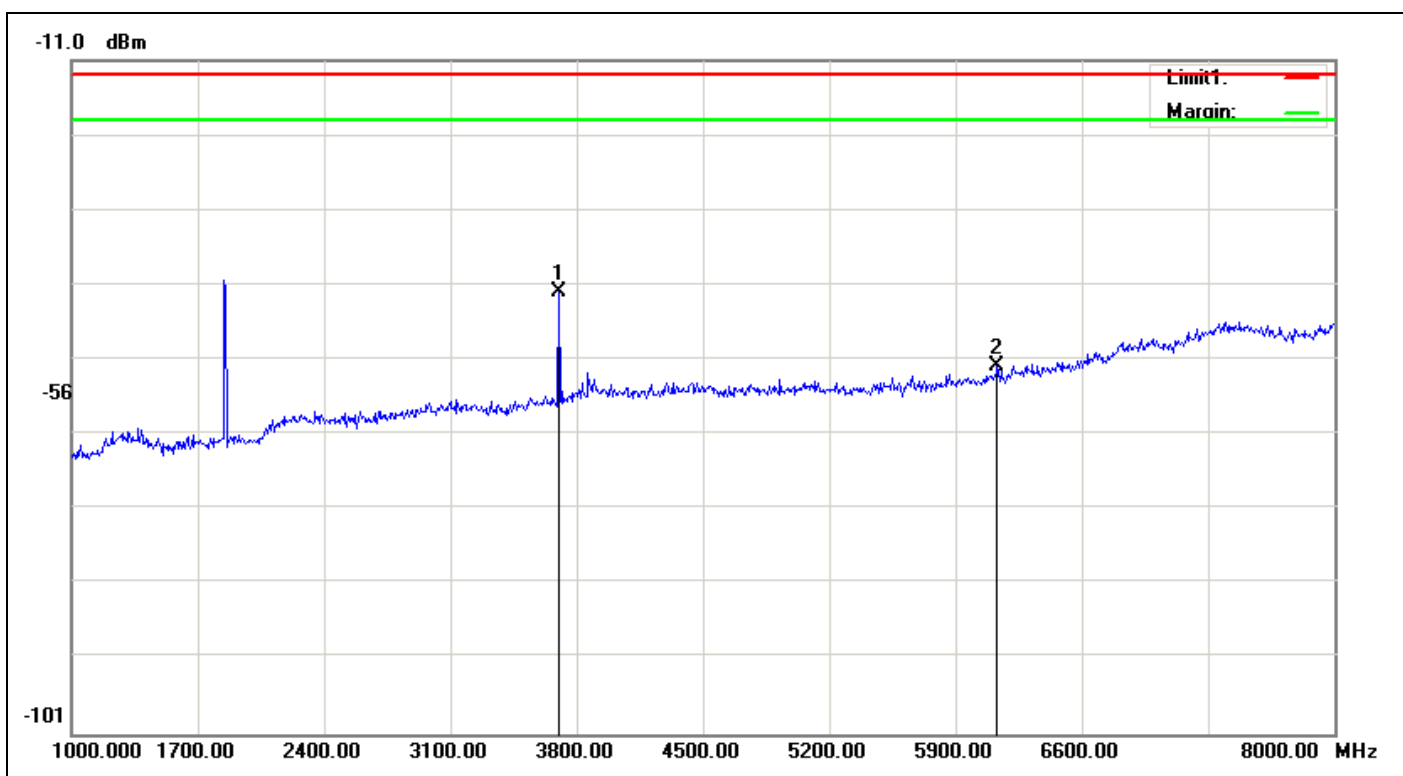


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3821.000	-43.9	8.29	9.22	-42.97	-13.00	-29.97	230	201	peak
2	6180.000	-50.11	11.1	11.04	-50.17	-13.00	-37.17	230	103	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:23:50
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

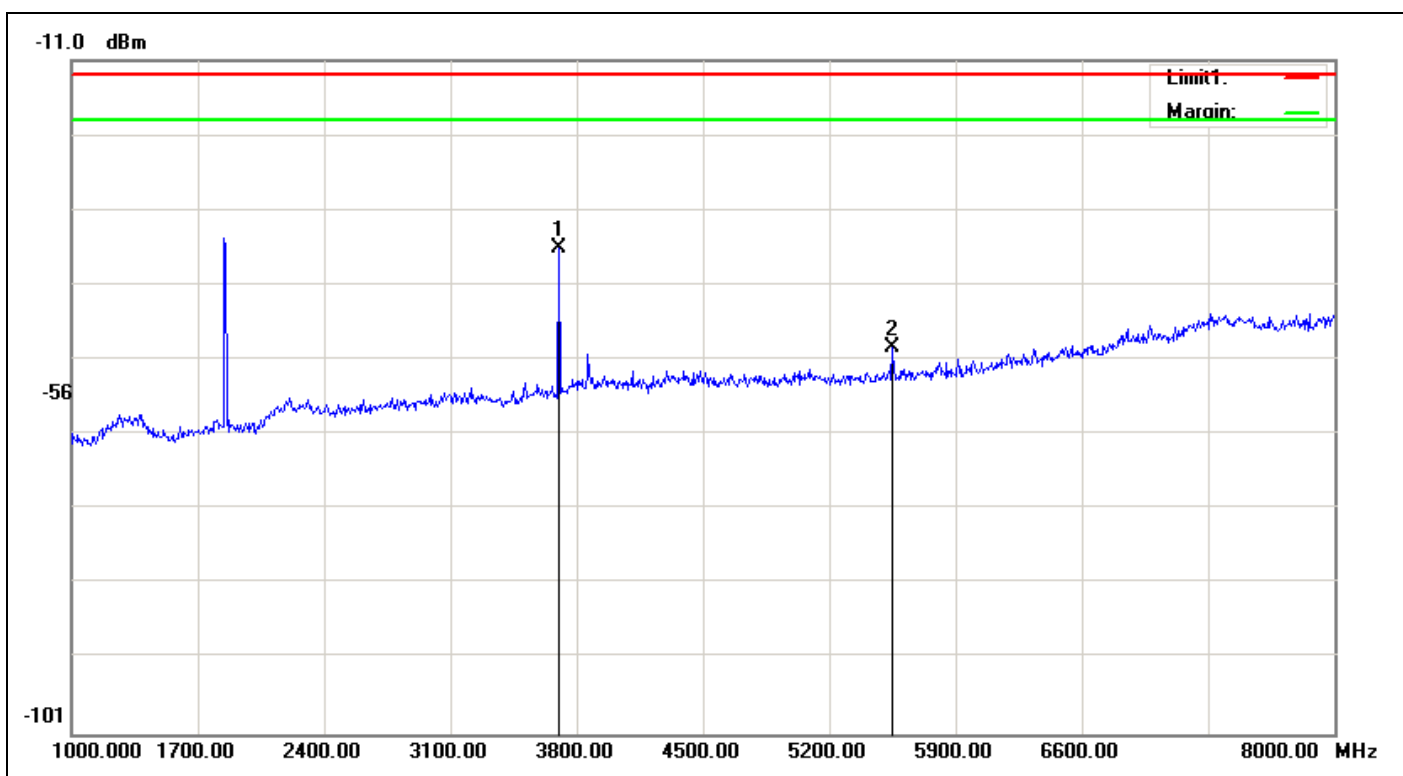


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-42.89	8.2	9.1	-41.99	-13.00	-28.99	230	3	peak
2	6131.000	-52.06	10.81	11	-51.87	-13.00	-38.87	230	198	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:19:44
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-37.05	8.2	9.1	-36.15	-13.00	-23.15	230	197	peak
2	5550.000	-50.1	10.06	10.81	-49.35	-13.00	-36.35	230	114	peak



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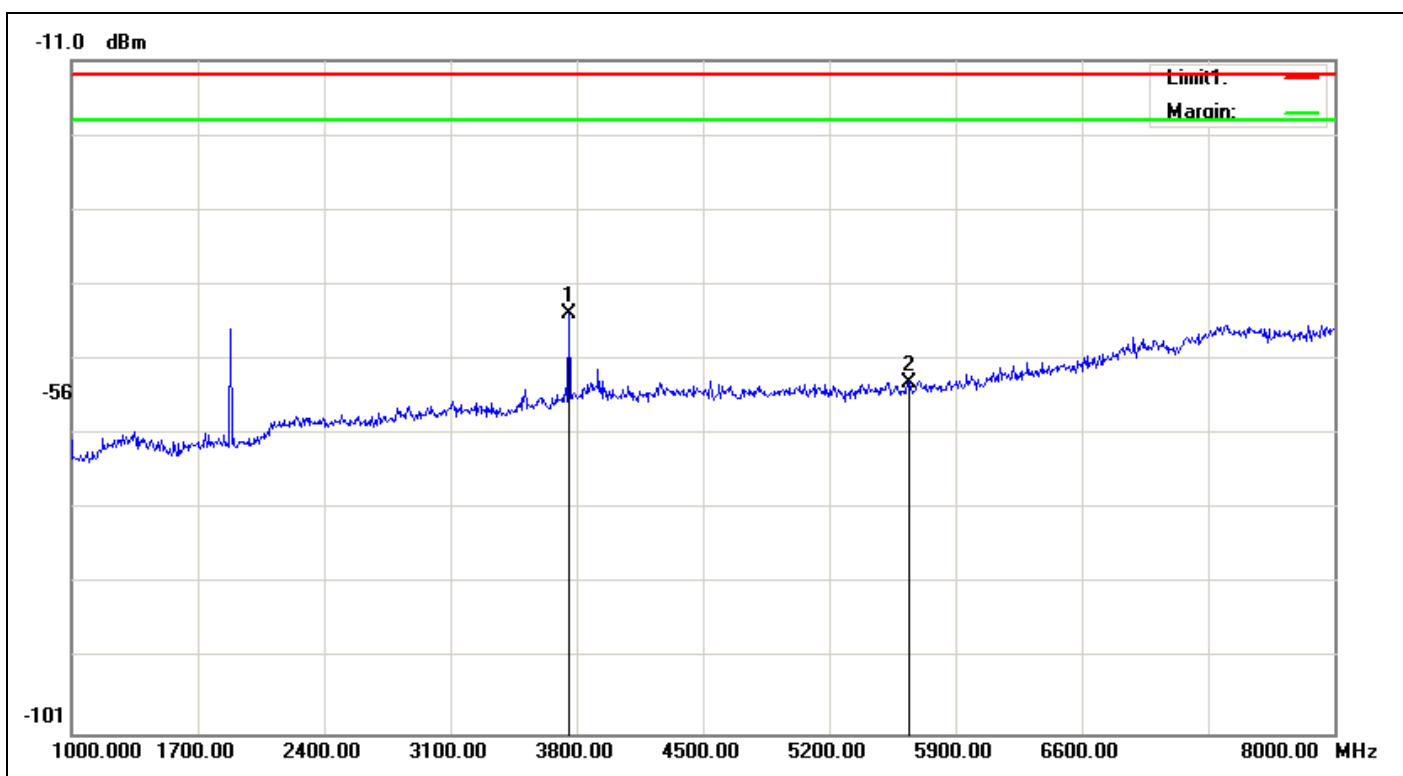
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Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:28:08
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-45.77	8.23	9.16	-44.84	-13.00	-31.84	230	33	peak
2	5641.000	-54.63	10.18	10.83	-53.98	-13.00	-40.98	230	129	peak



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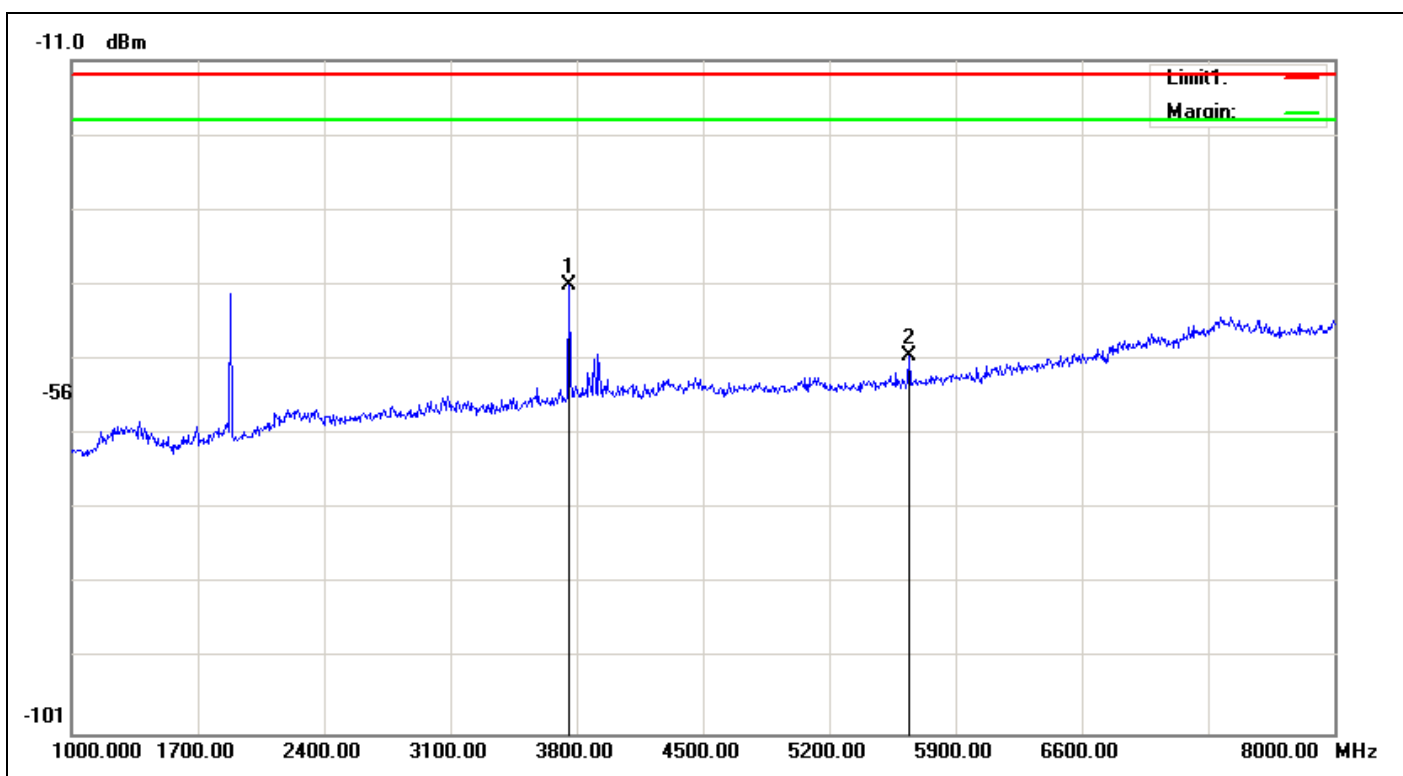
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:32:22
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		

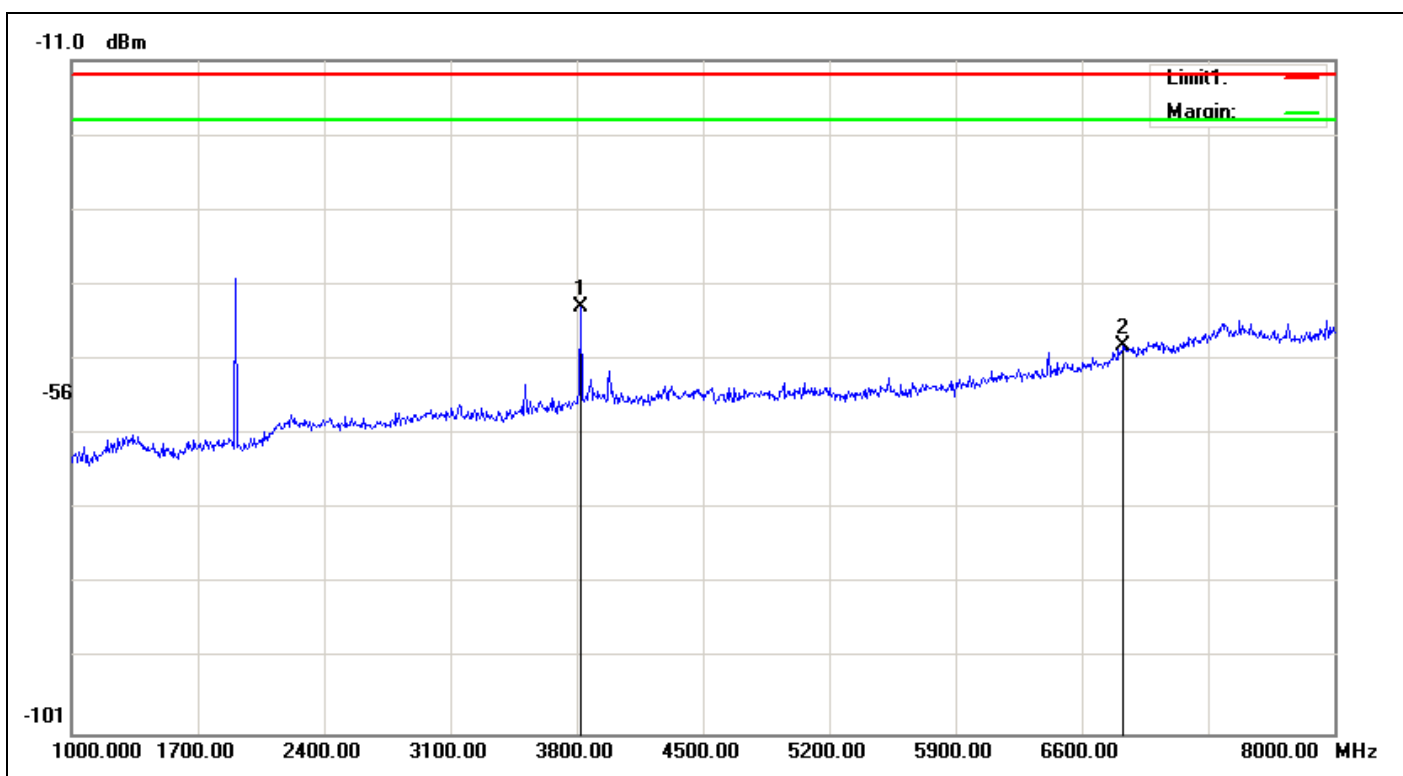


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-41.97	8.23	9.16	-41.04	-13.00	-28.04	230	211	peak
2	5641.000	-51.16	10.18	10.83	-50.51	-13.00	-37.51	230	117	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:38:52
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3821.000	-44.96	8.29	9.22	-44.03	-13.00	-31.03	230	3	peak
2	6831.000	-49.46	11.37	11.7	-49.13	-13.00	-36.13	230	243	peak



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五股實驗室 Wugu LAB

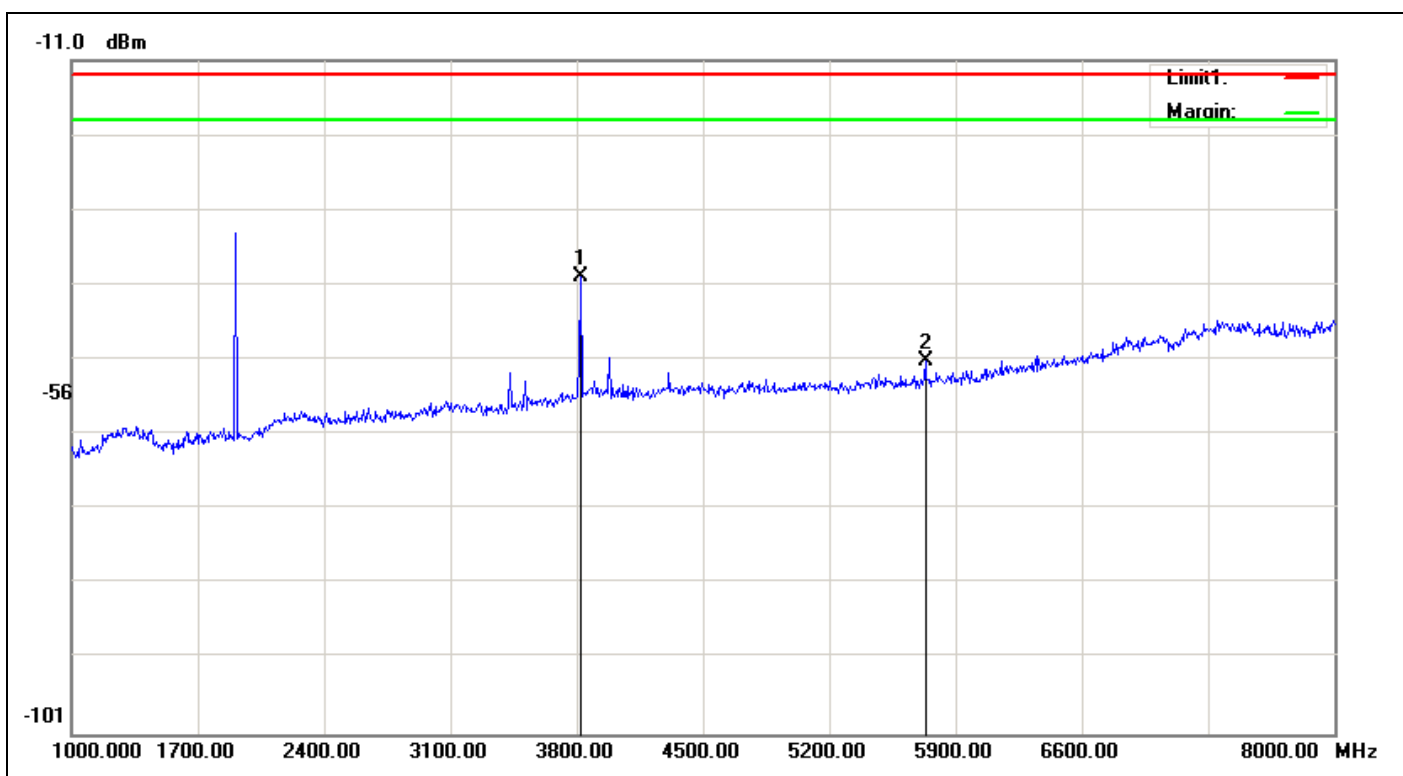
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:36:48</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3821.000	-40.82	8.29	9.22	-39.89	-13.00	-26.89	230	193	peak
2	5732.000	-51.8	10.24	10.85	-51.19	-13.00	-38.19	230	133	peak



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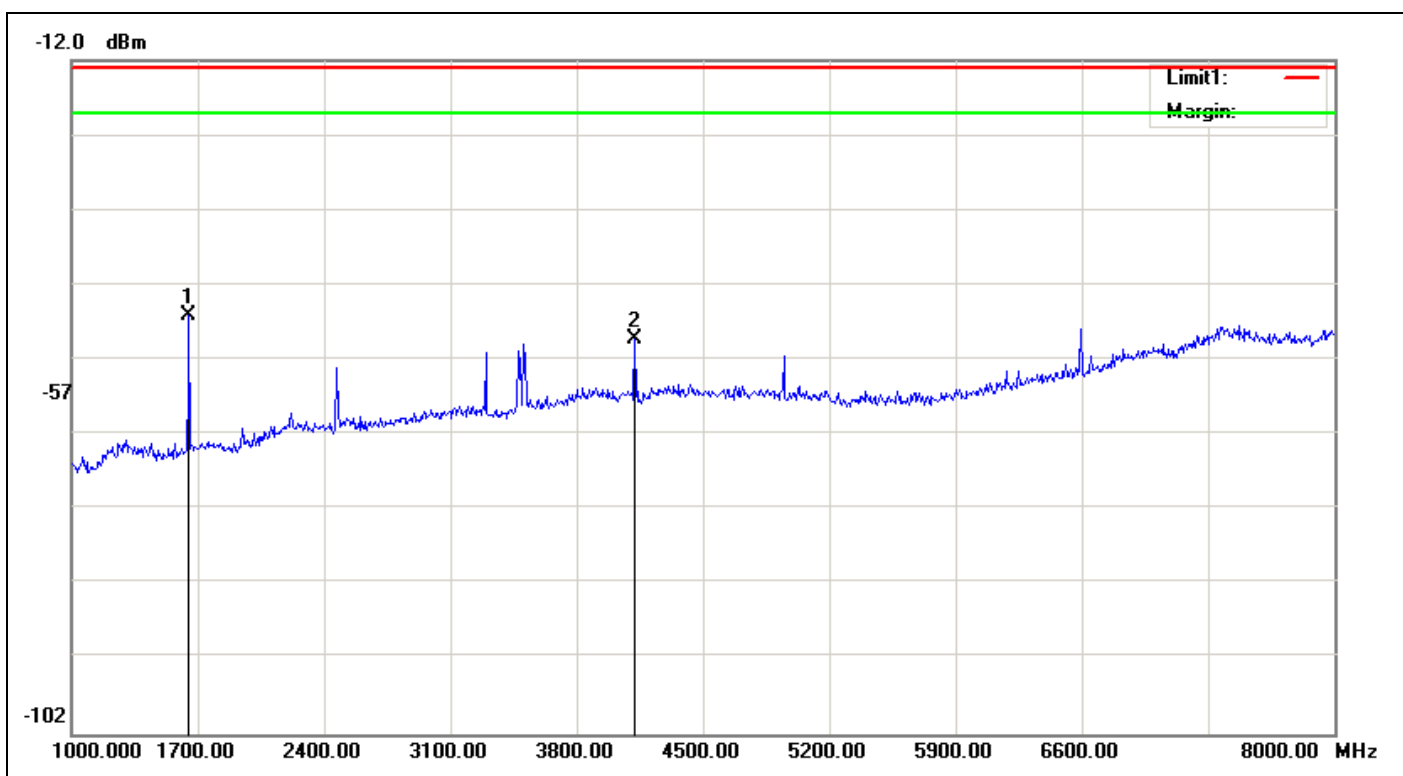
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:27:40
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-47	5.05	6.03	-46.02	-13.00	-33.02	230	279	peak
2	4122.000	-50.19	8.47	9.5	-49.16	-13.00	-36.16	230	176	peak





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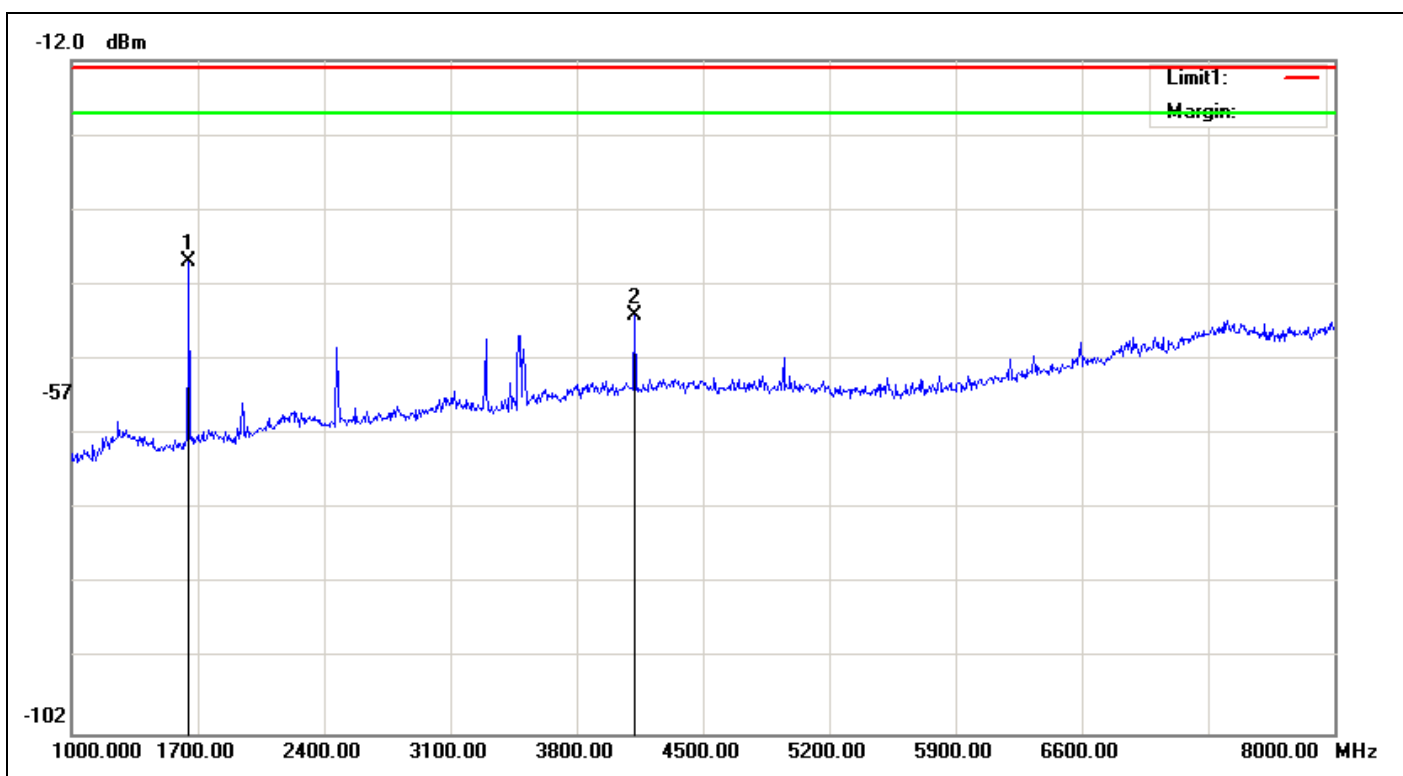
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:21:40
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-128		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-39.95	5.05	6.03	-38.97	-13.00	-25.97	230	344	peak
2	4122.000	-47.18	8.47	9.5	-46.15	-13.00	-33.15	230	247	peak



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五股實驗室 Wugu LAB

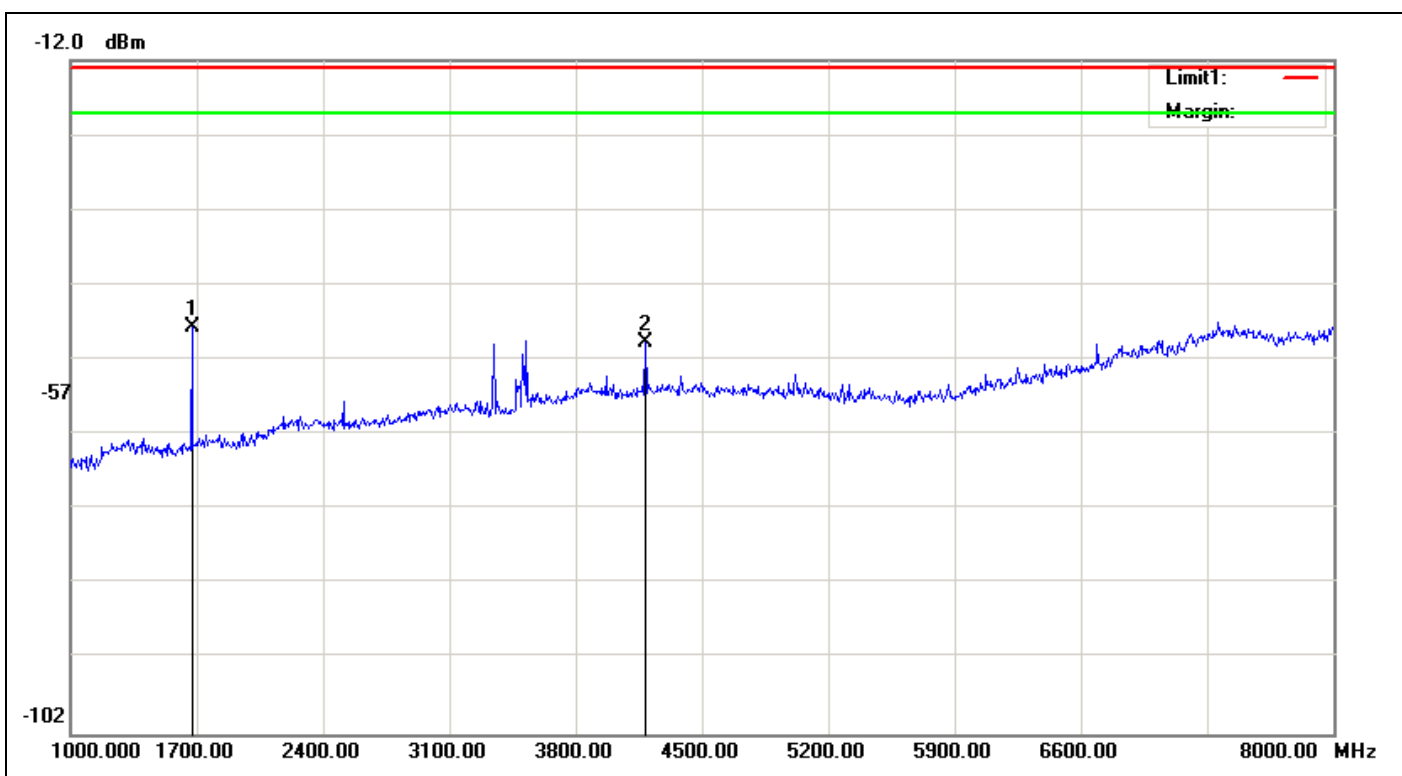
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:13:29
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-48.66	5.07	5.99	-47.74	-13.00	-34.74	230	229	peak
2	4185.000	-50.79	8.49	9.55	-49.73	-13.00	-36.73	230	182	peak



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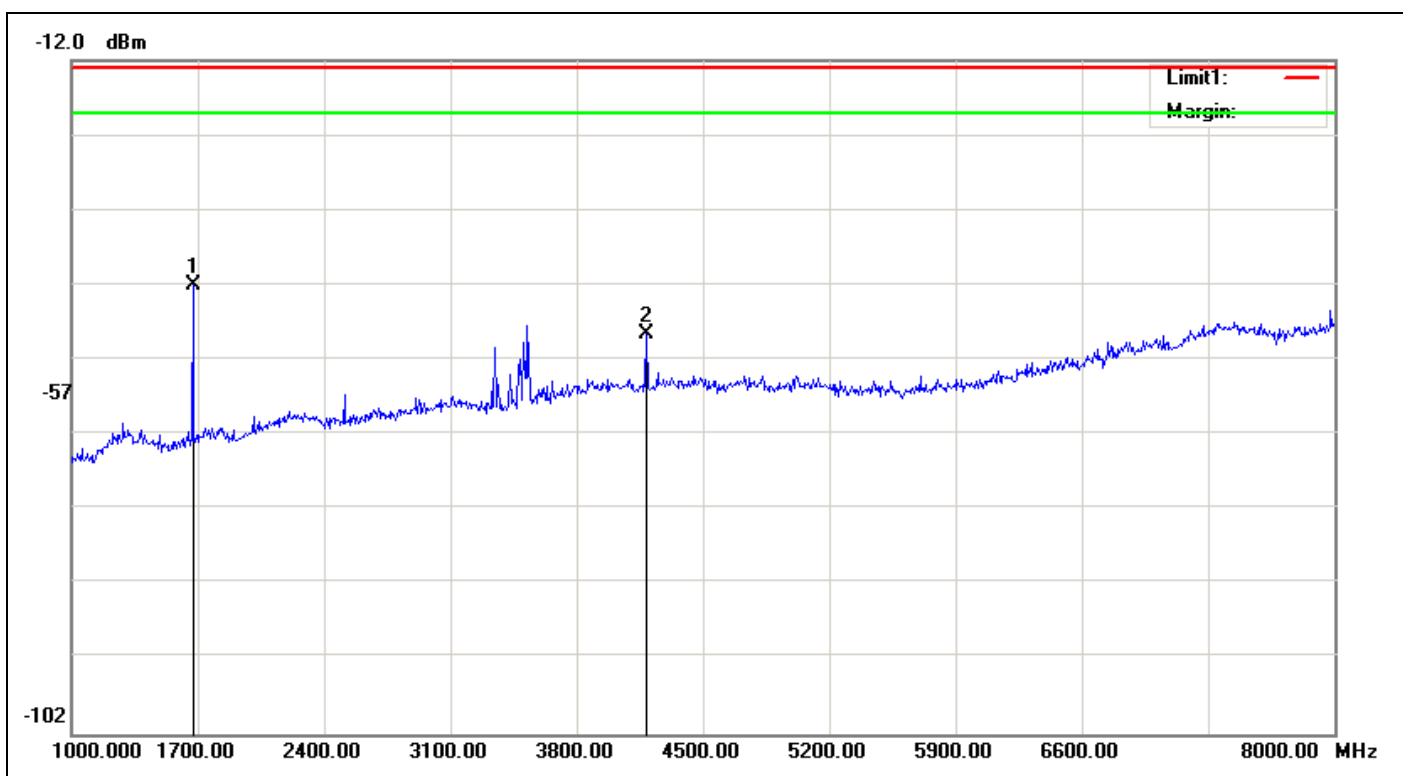
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:17:35
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-190		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-42.86	5.07	5.99	-41.94	-13.00	-28.94	230	341	peak
2	4185.000	-49.67	8.49	9.55	-48.61	-13.00	-35.61	230	155	peak



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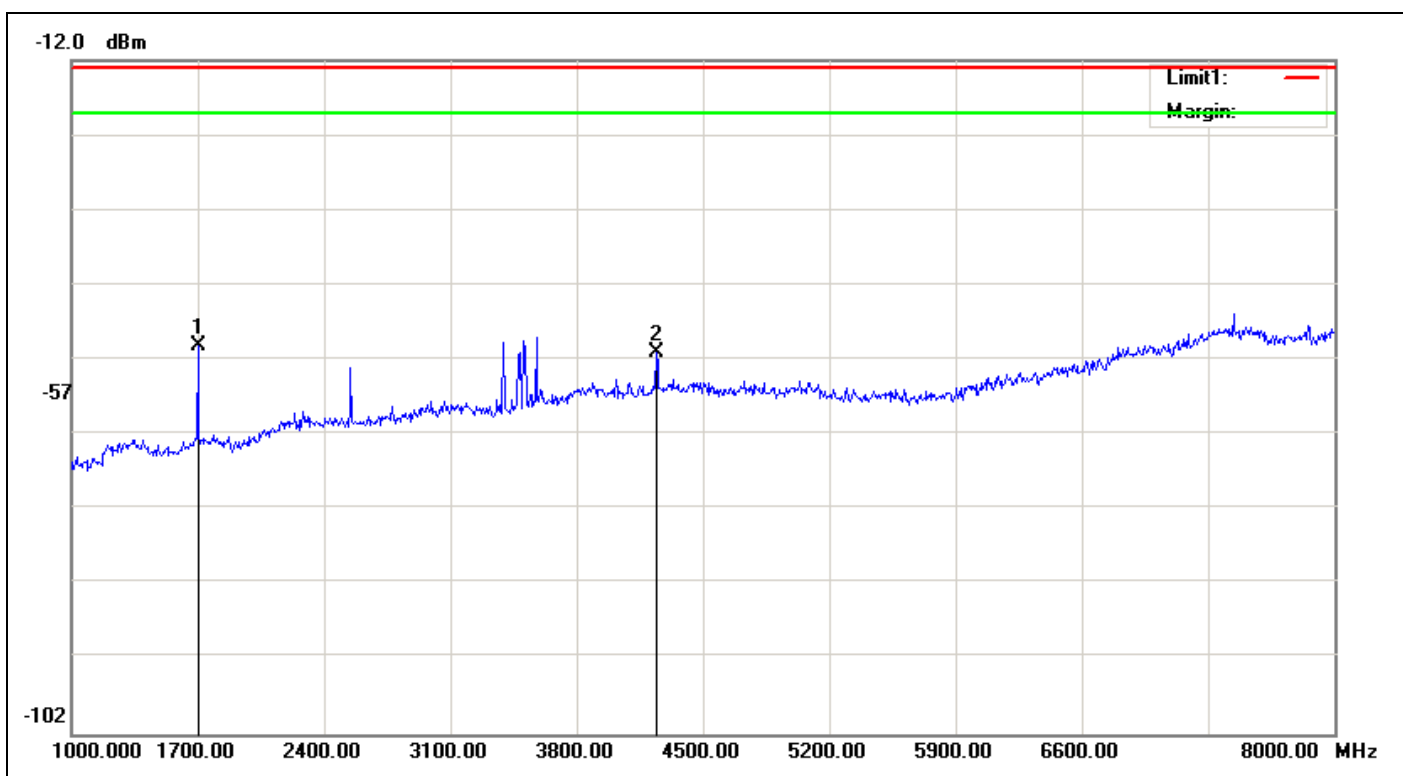
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:08:51
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1700.000	-50.96	5.11	5.94	-50.13	-13.00	-37.13	230	218	peak
2	4241.000	-52.2	8.54	9.59	-51.15	-13.00	-38.15	230	188	peak



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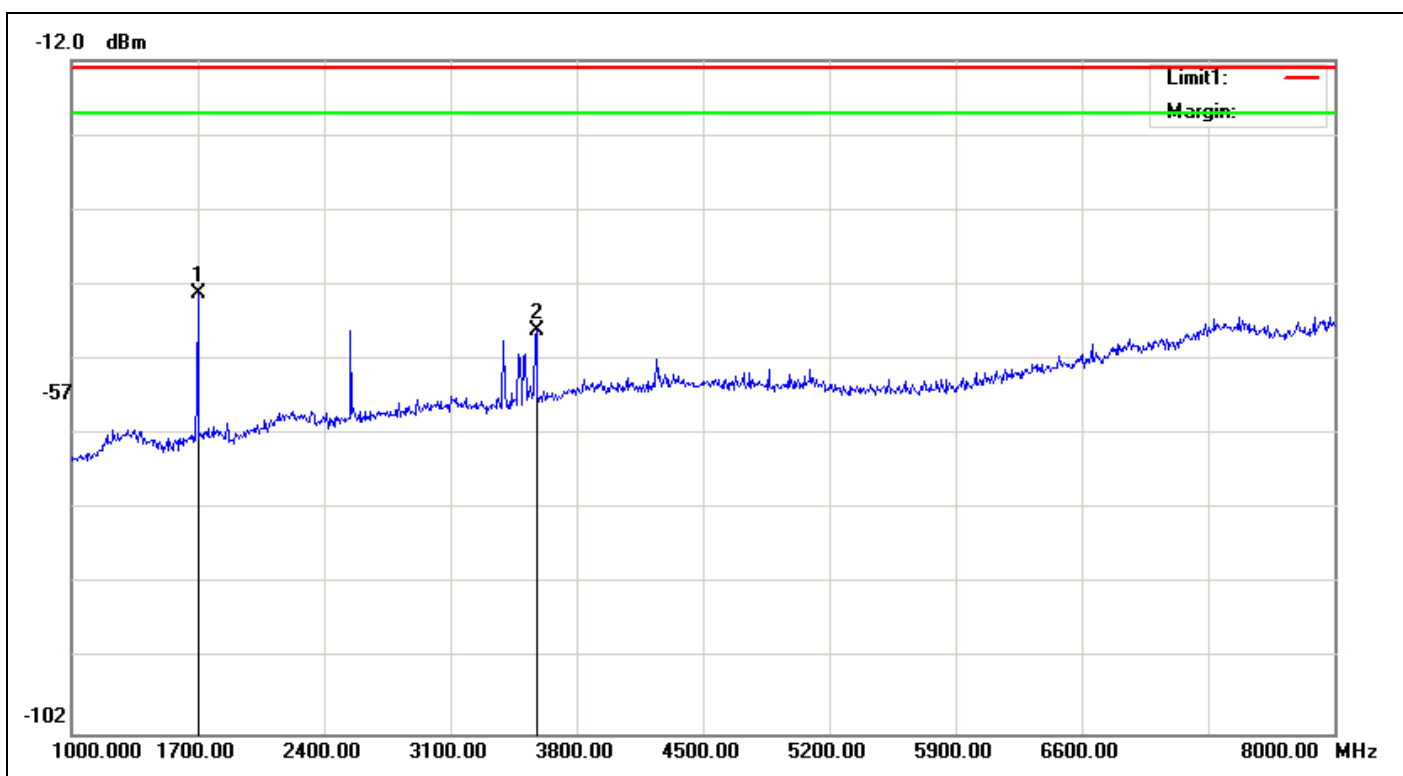
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/18	Time:下午 07:05:54
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	850-251		

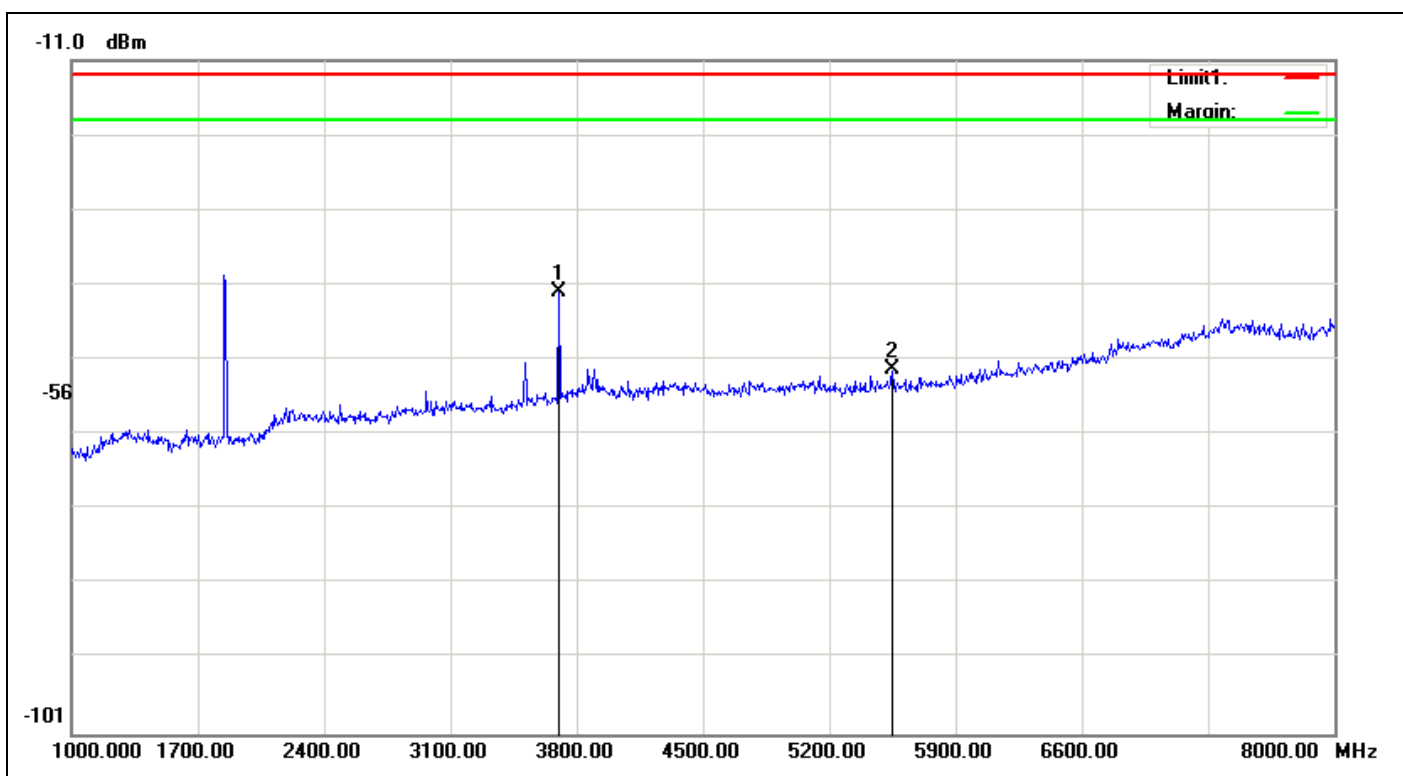


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1700.000	-44.03	5.11	5.94	-43.20	-13.00	-30.20	230	12	peak
2	3576.000	-48.95	8.05	8.98	-48.02	-13.00	-35.02	230	72	peak



### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:</b> 2014/8/19	<b>Time:</b> 上午 10:21:52
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-512</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-42.82	8.2	9.1	-41.92	-13.00	-28.92	230	15	peak
2	5550.000	-53.15	10.06	10.81	-52.40	-13.00	-39.40	230	184	peak



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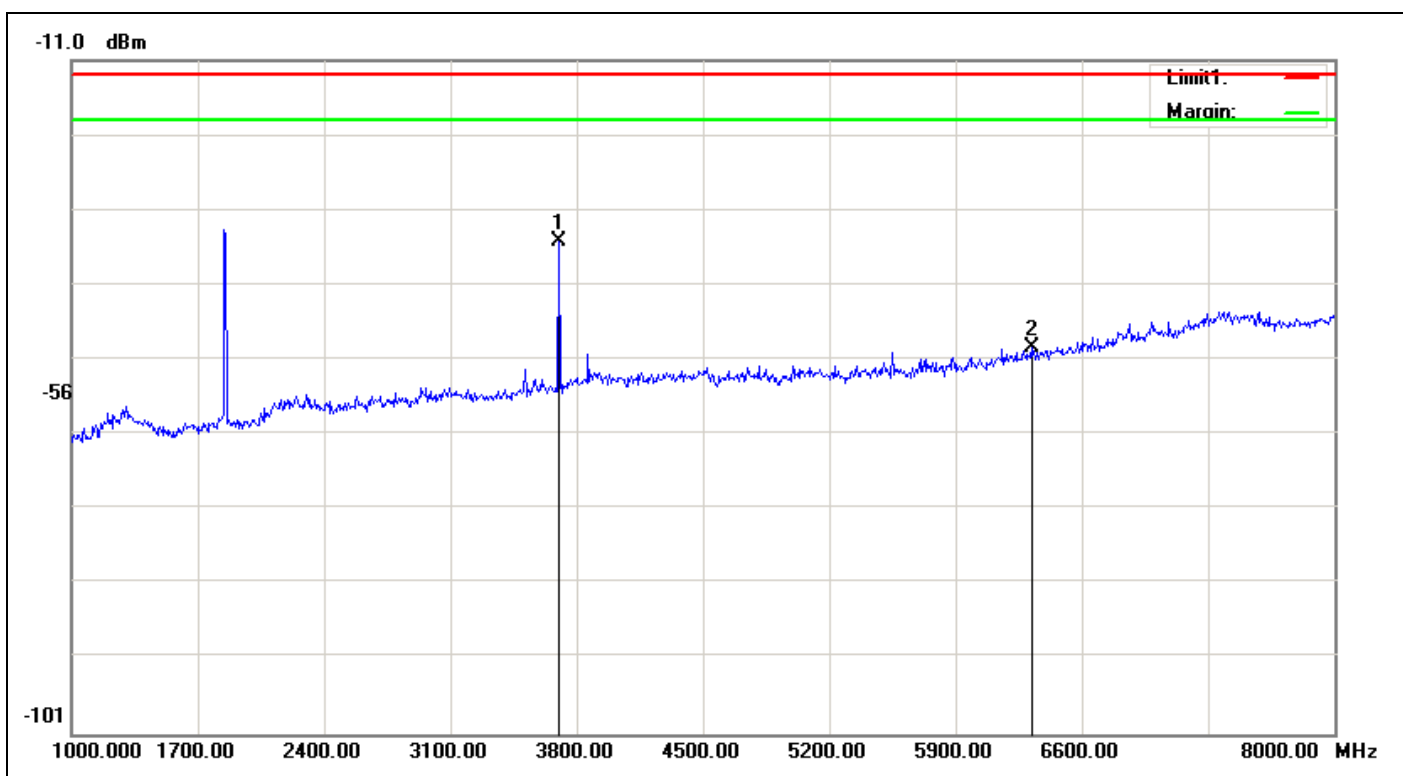
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:17:36
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-512		

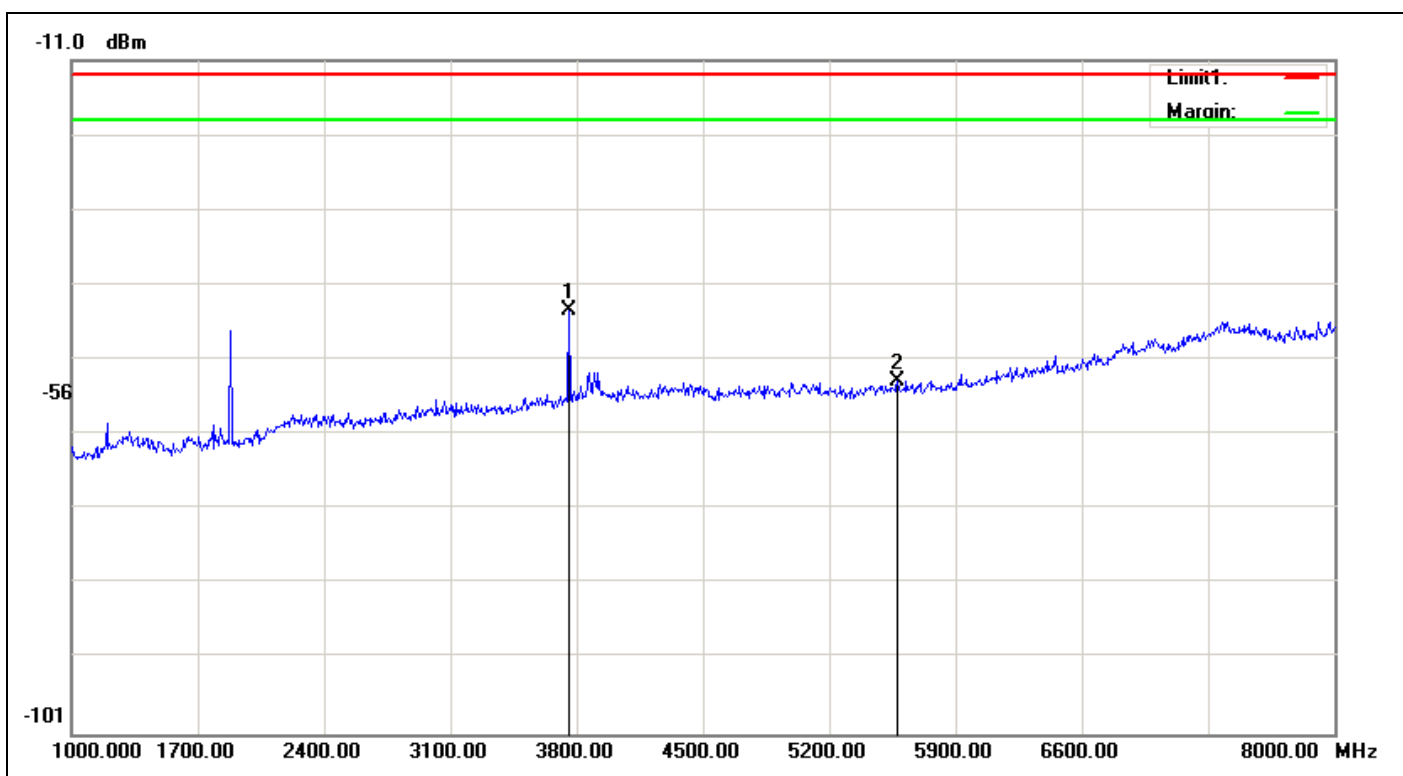


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-36.06	8.2	9.1	-35.16	-13.00	-22.16	230	194	peak
2	6320.000	-49.79	10.84	11.16	-49.47	-13.00	-36.47	230	336	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:26:05
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-45.45	8.23	9.16	-44.52	-13.00	-31.52	230	16	peak
2	5578.000	-54.49	10.13	10.82	-53.80	-13.00	-40.80	230	34	peak





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五股實驗室 Wugu LAB

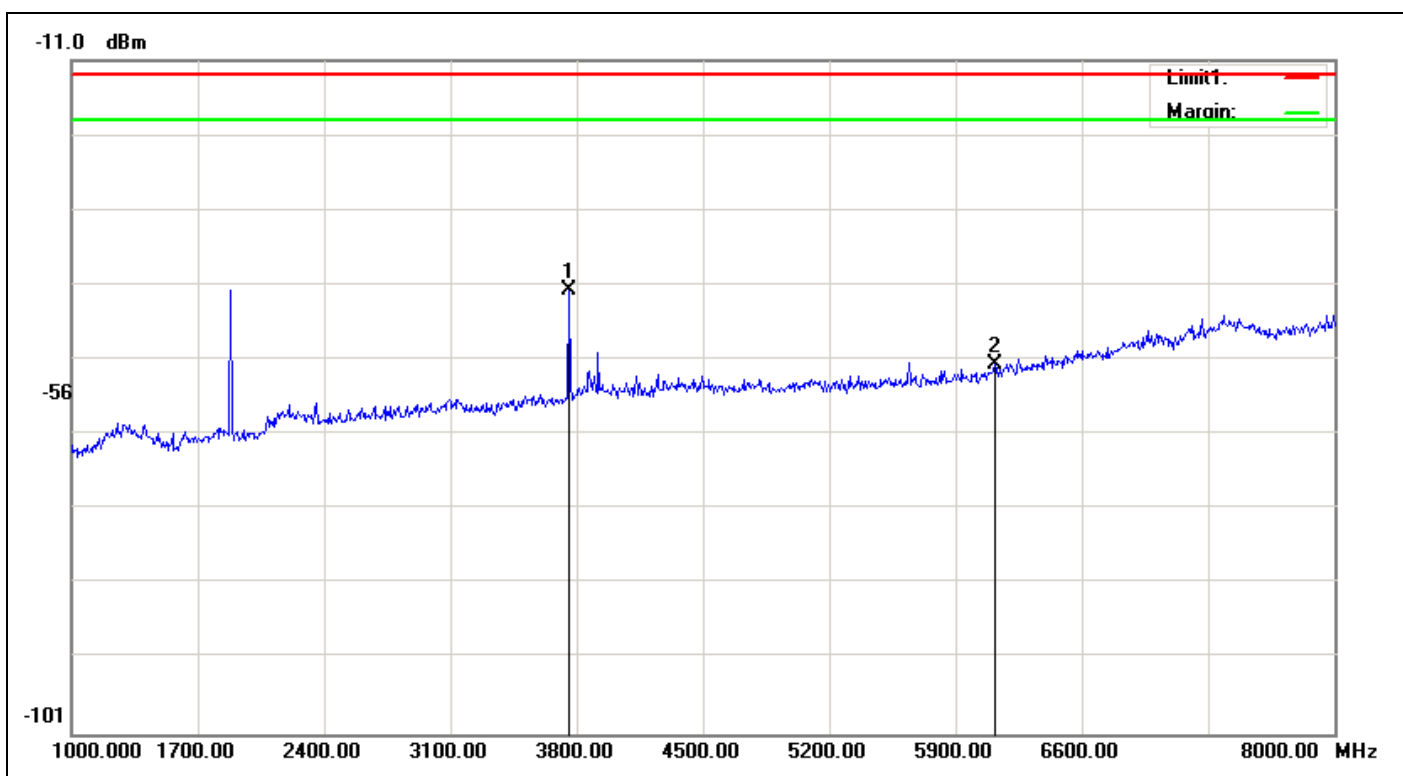
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:30:10
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-661		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-42.59	8.23	9.16	-41.66	-13.00	-28.66	230	211	peak
2	6117.000	-51.82	10.72	10.99	-51.55	-13.00	-38.55	230	114	peak



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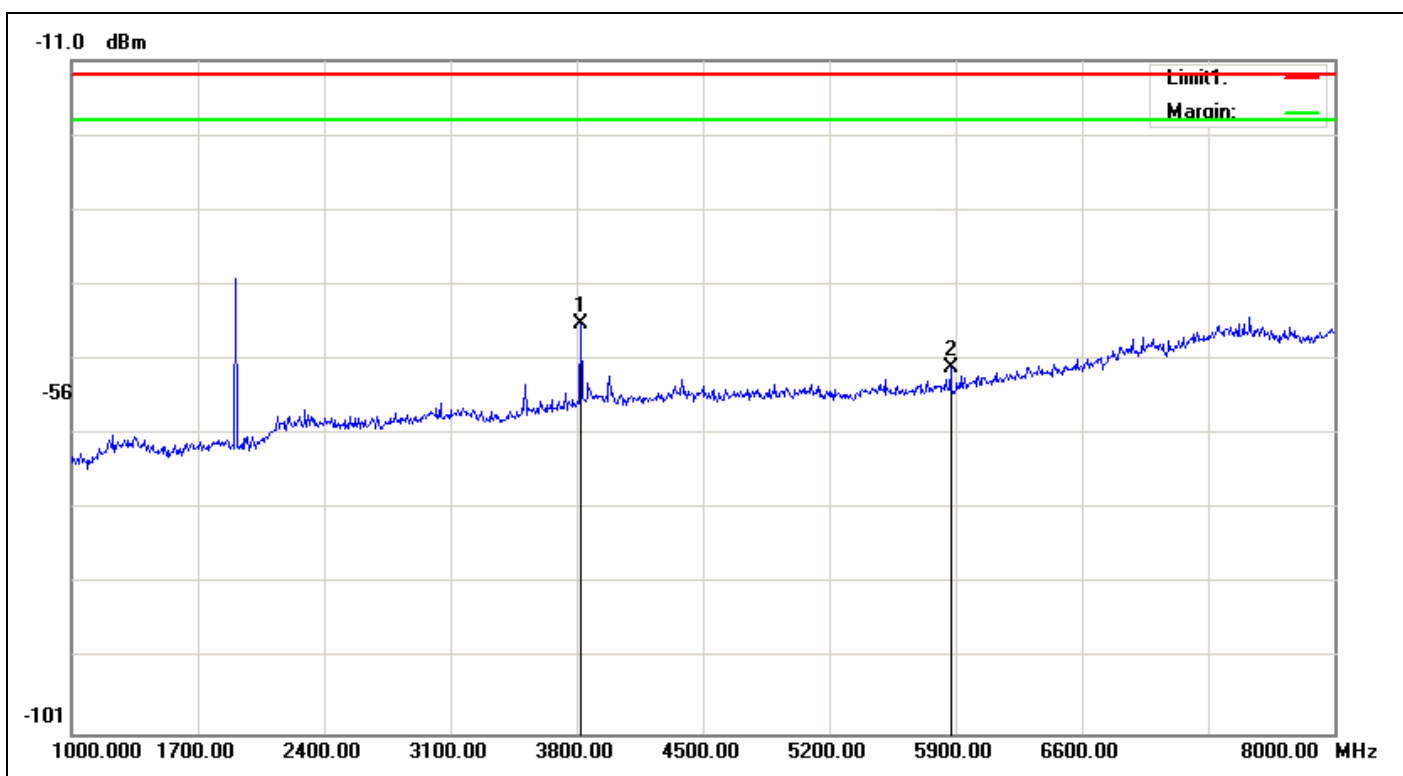
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:上午 10:40:51</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>1900-810</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3821.000	-47.06	8.29	9.22	-46.13	-13.00	-33.13	230	167	peak
2	5872.000	-52.56	10.41	10.87	-52.10	-13.00	-39.10	230	124	peak



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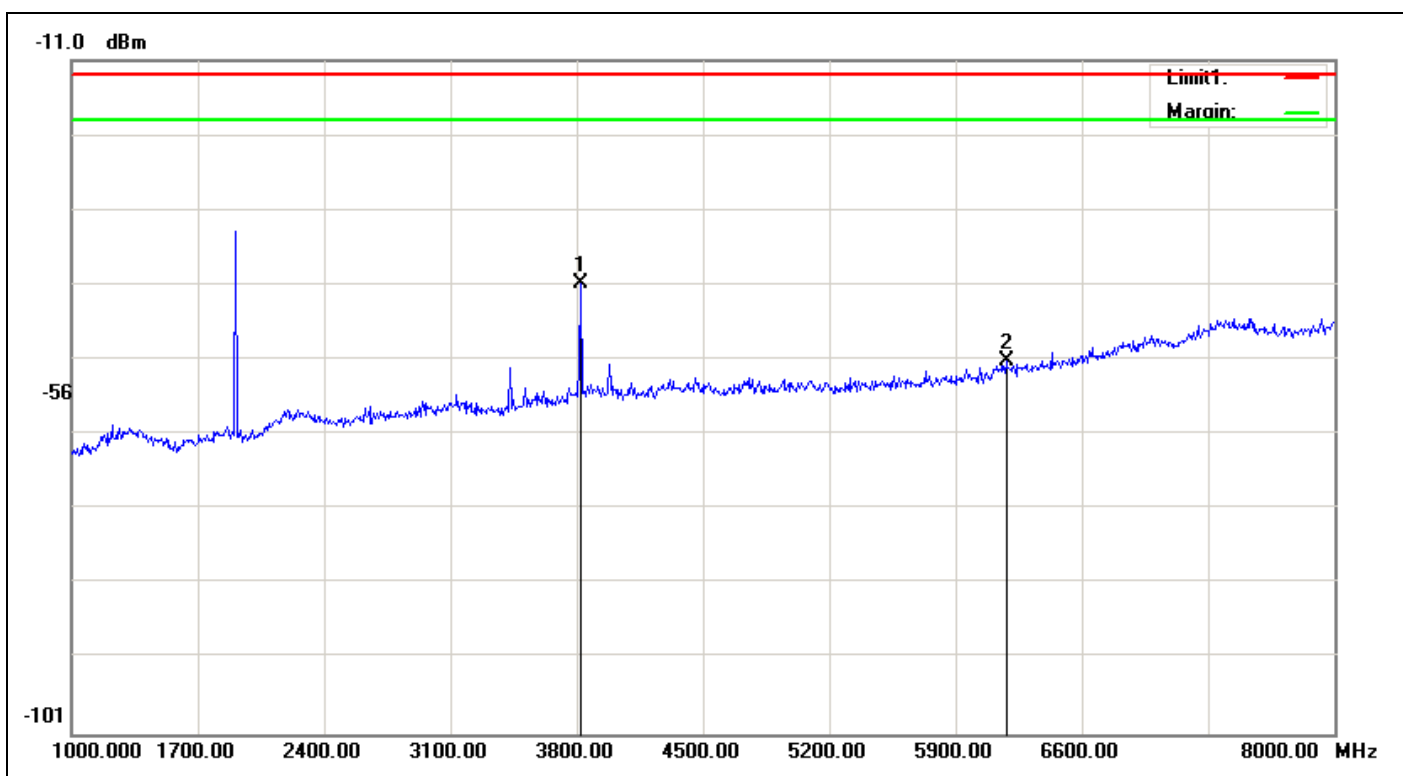
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:上午 10:34:49
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	1900-810		

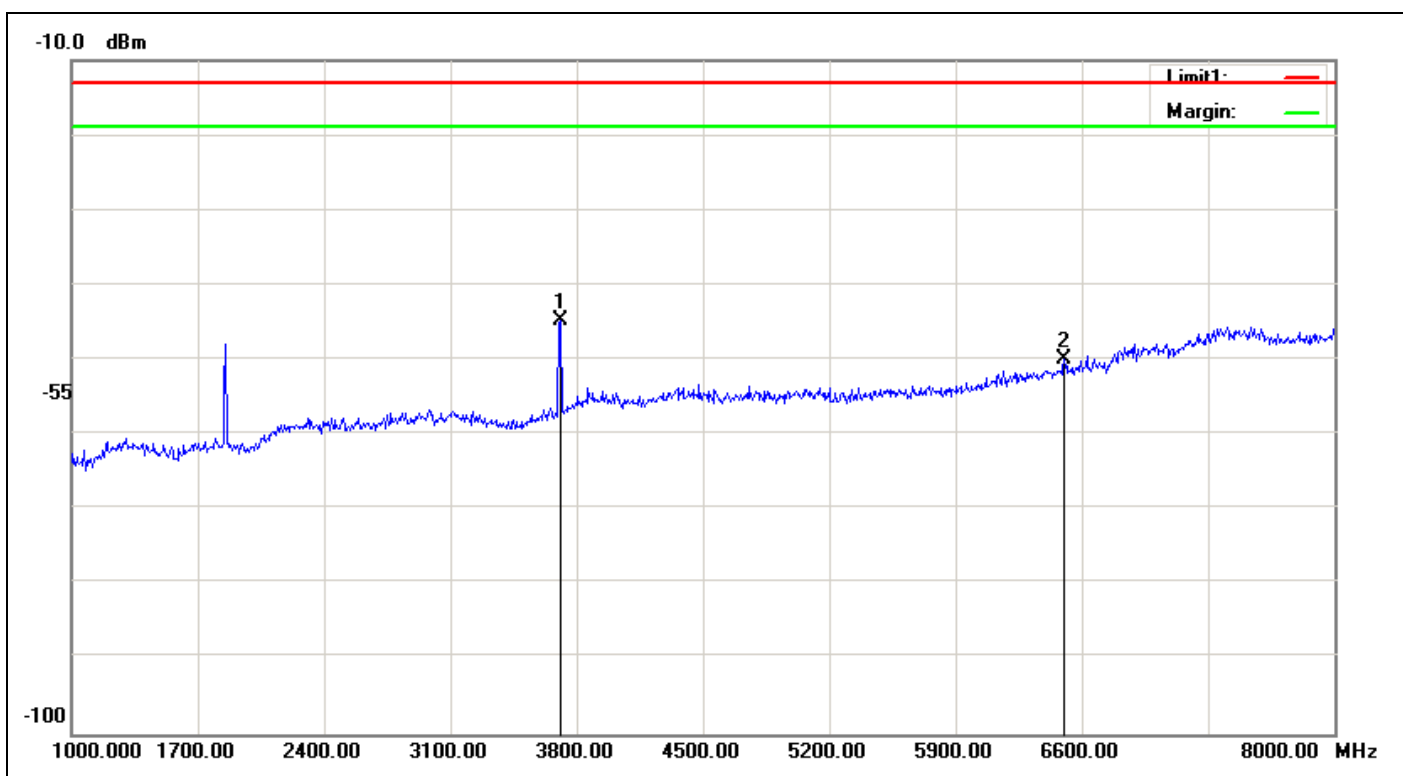


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3821.000	-41.78	8.29	9.22	-40.85	-13.00	-27.85	230	196	peak
2	6180.000	-51.16	11.1	11.04	-51.22	-13.00	-38.22	230	44	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:15:17
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3709.000	-45.72	8.21	9.11	-44.82	-13.00	-31.82	230	23	peak
2	6502.000	-50.19	11.04	11.3	-49.93	-13.00	-36.93	230	296	peak



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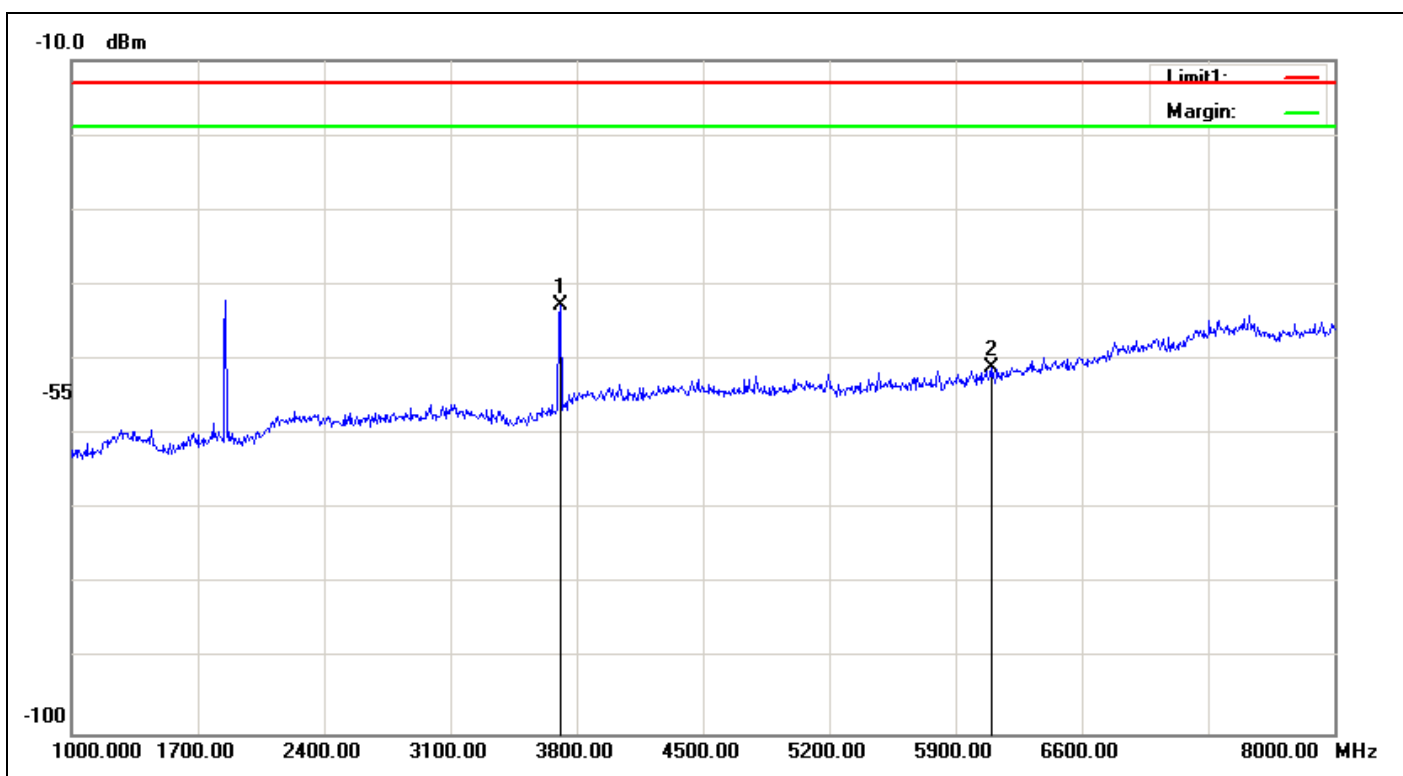
Tel:+886-2-2299-4086

Fax:

http://www.ccsemc.com.tw

## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 02:13:11</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9262</b>		

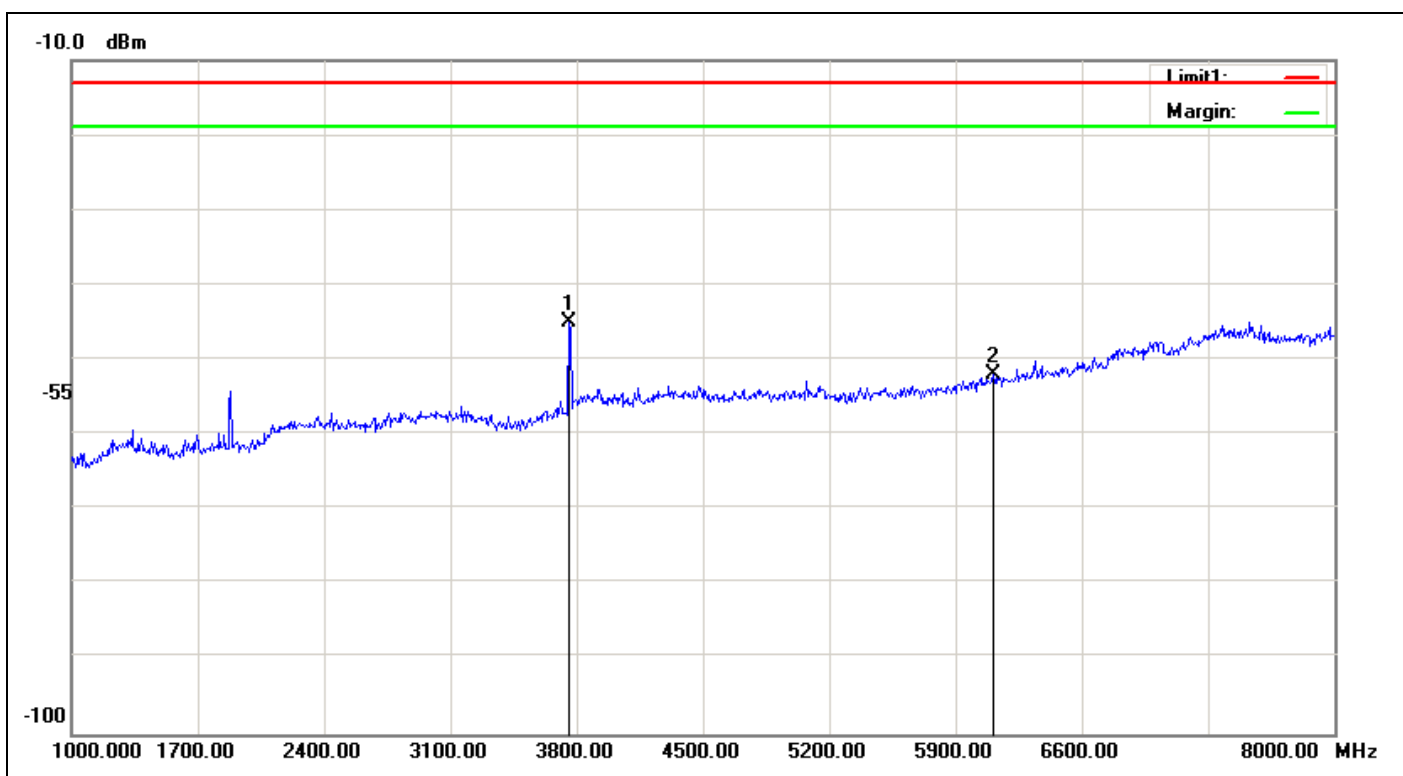


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3709.000	-43.7	8.21	9.11	-42.80	-13.00	-29.80	230	241	peak
2	6096.000	-51.47	10.63	10.98	-51.12	-13.00	-38.12	230	147	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:05:43
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-45.85	8.23	9.16	-44.92	-13.00	-31.92	230	192	peak
2	6110.000	-52.24	10.68	10.99	-51.93	-13.00	-38.93	230	65	peak



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五股實驗室 Wugu LAB

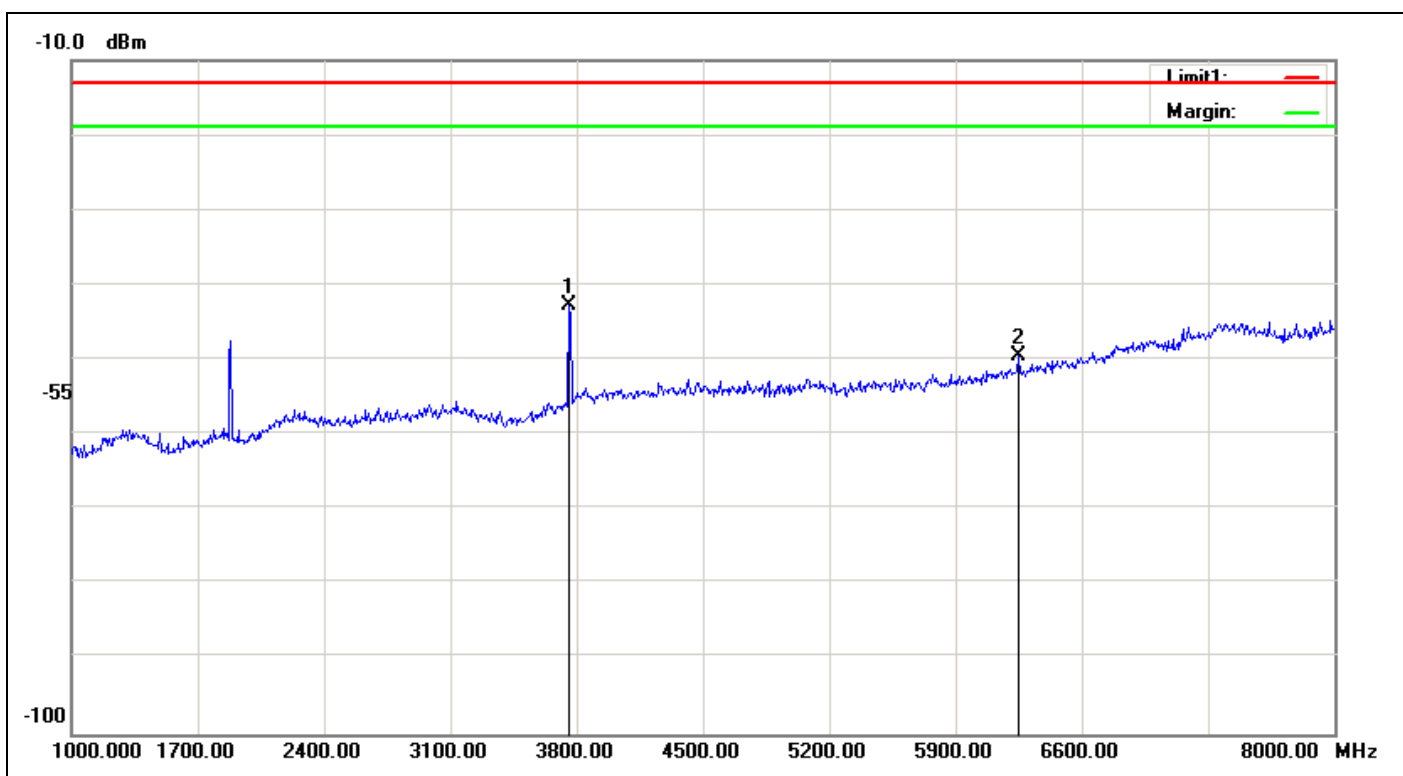
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 02:07:42</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9400</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-43.73	8.23	9.16	-42.80	-13.00	-29.80	230	241	peak
2	6250.000	-49.71	10.98	11.1	-49.59	-13.00	-36.59	230	21	peak



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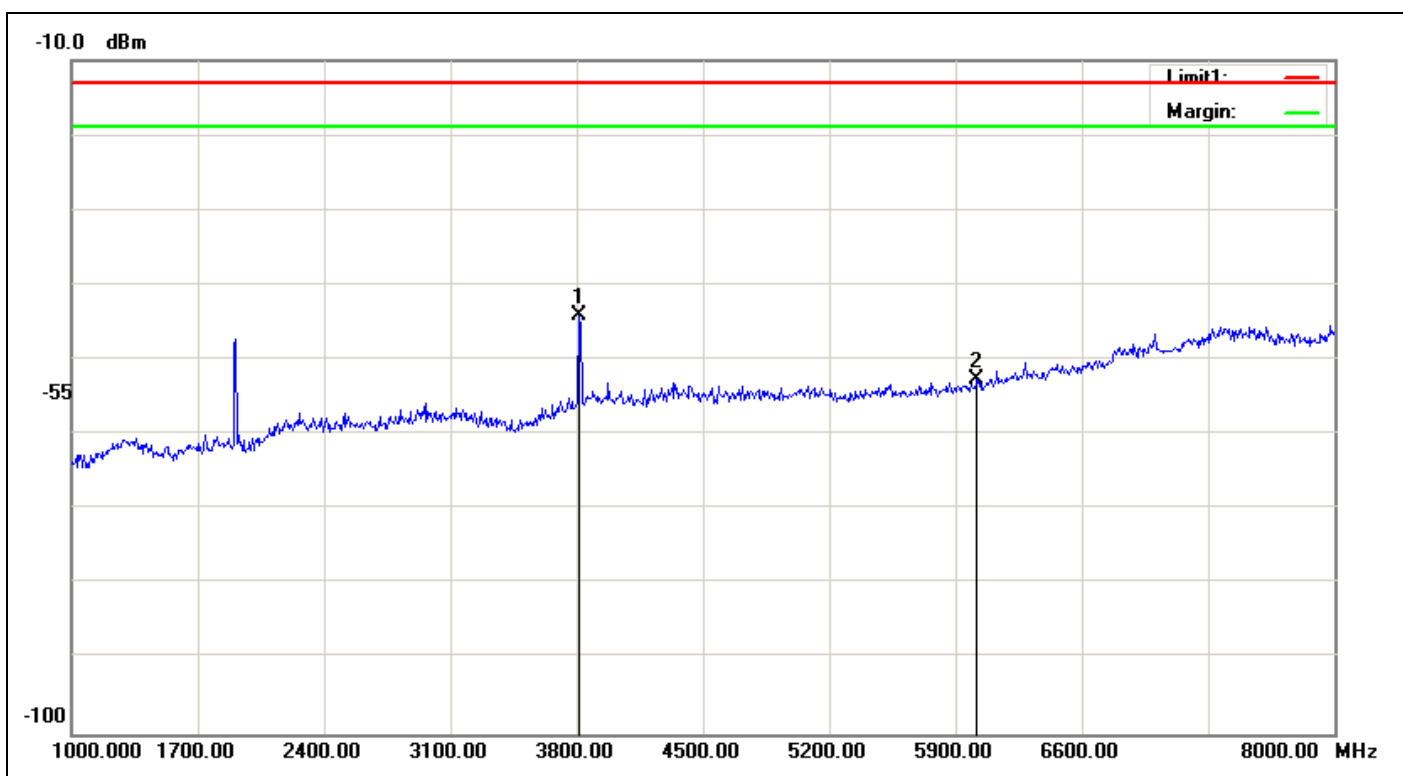
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:03:04
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



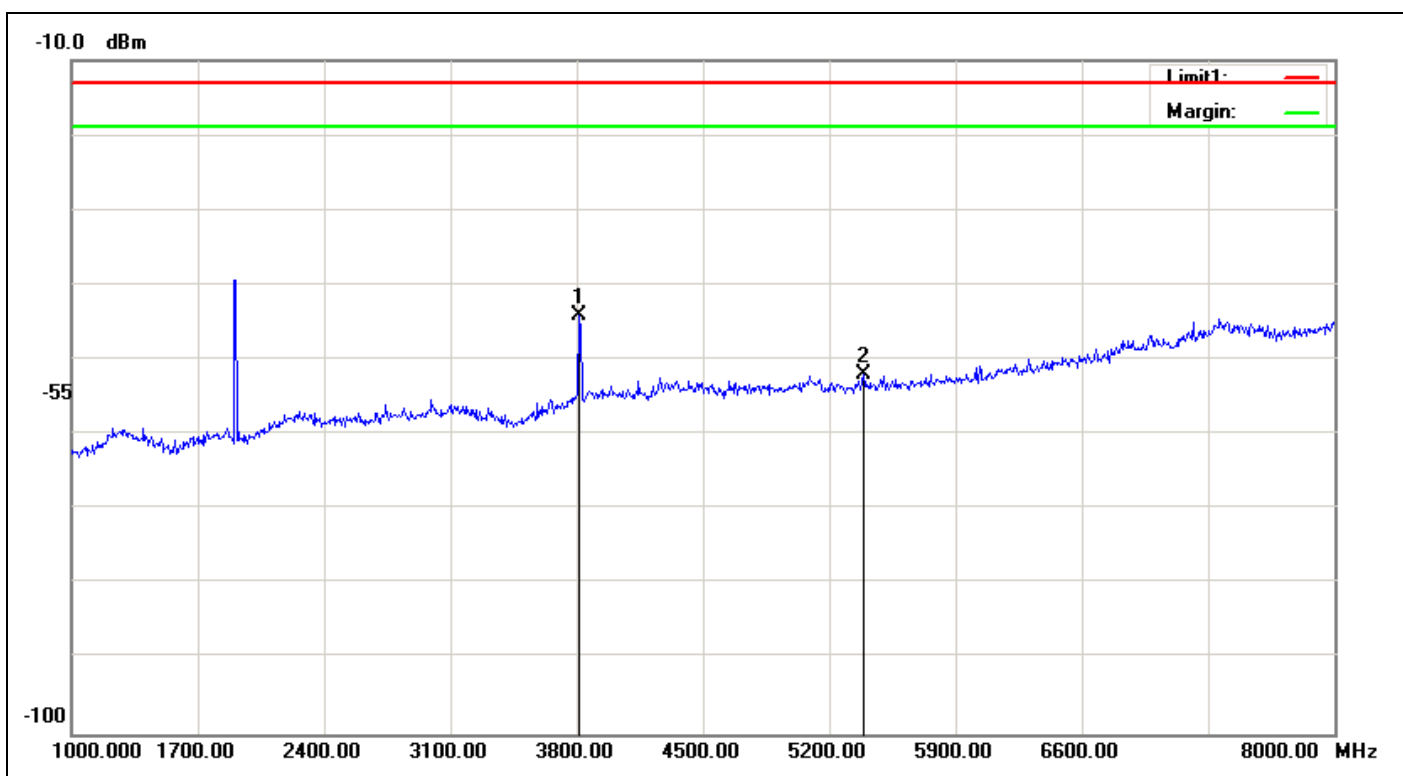
No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3814.000	-45.11	8.28	9.21	-44.18	-13.00	-31.18	230	45	peak
2	6019.000	-52.77	10.79	10.92	-52.64	-13.00	-39.64	230	245	peak





Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:00:58
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3814.000	-45.07	8.28	9.21	-44.14	-13.00	-31.14	230	315	peak
2	5389.000	-52.81	9.8	10.76	-51.85	-13.00	-38.85	230	244	peak



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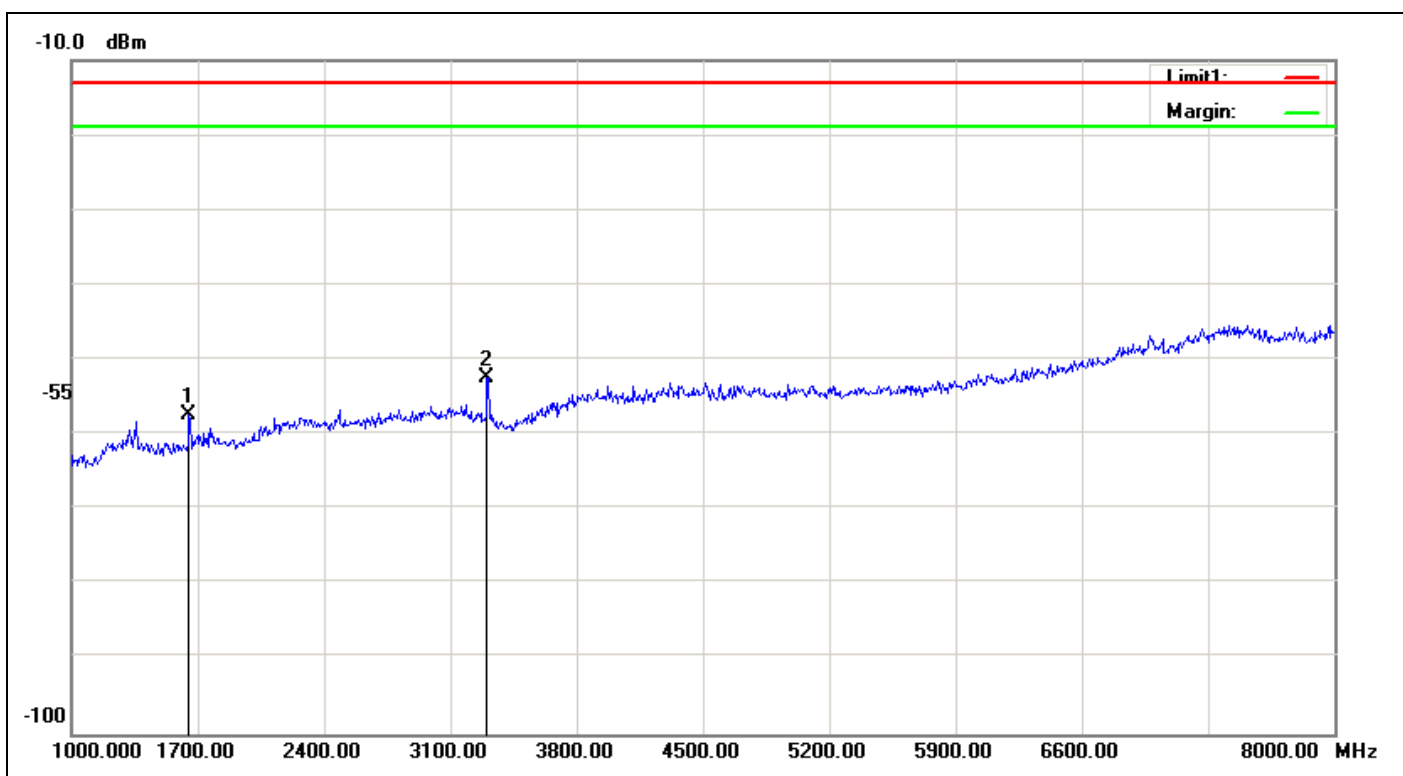
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:50:46
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-58.36	5.05	6.03	-57.38	-13.00	-44.38	230	291	peak
2	3303.000	-53.23	7.46	8.31	-52.38	-13.00	-39.38	230	209	peak



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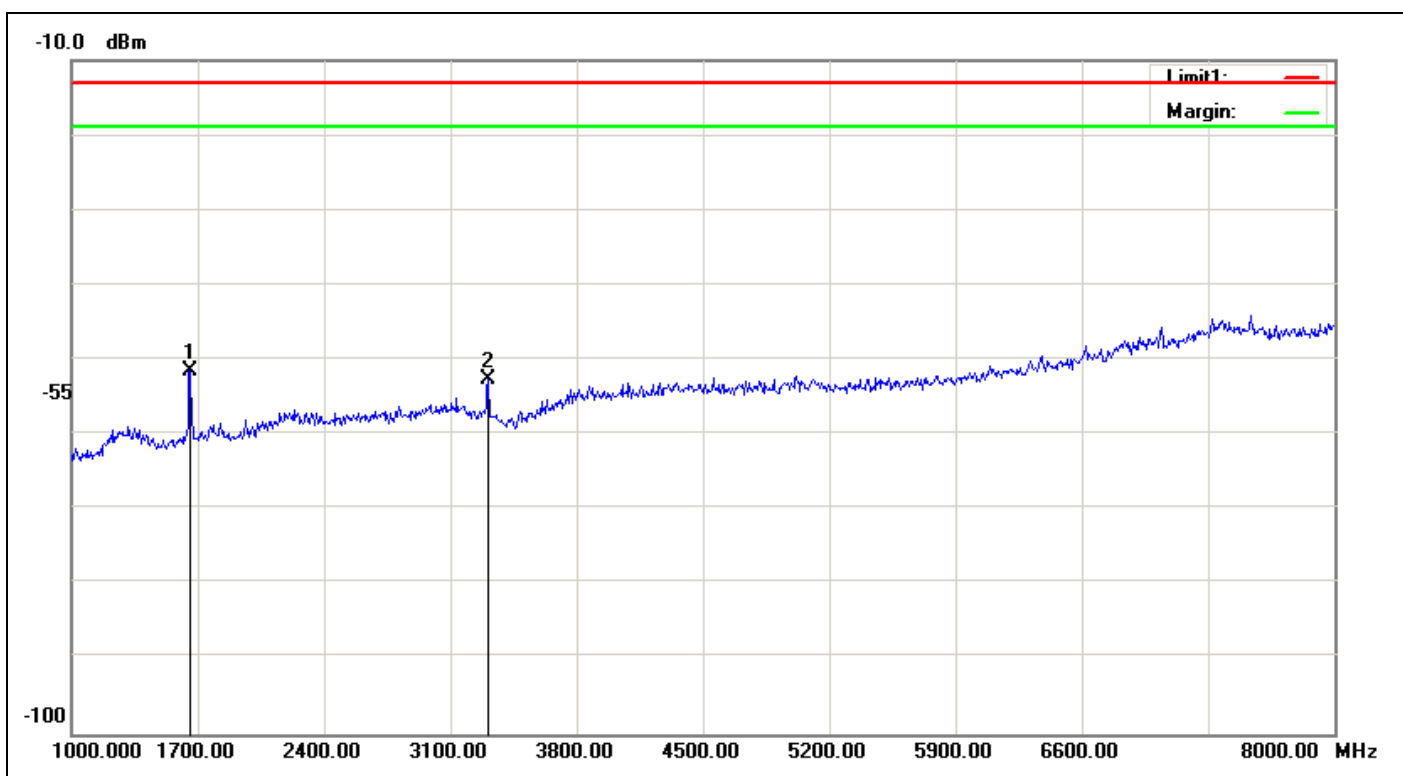
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 01:53:17</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4132</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1658.000	-52.44	5.06	6.02	-51.48	-13.00	-38.48	230	33	peak
2	3310.000	-53.42	7.47	8.33	-52.56	-13.00	-39.56	230	164	peak



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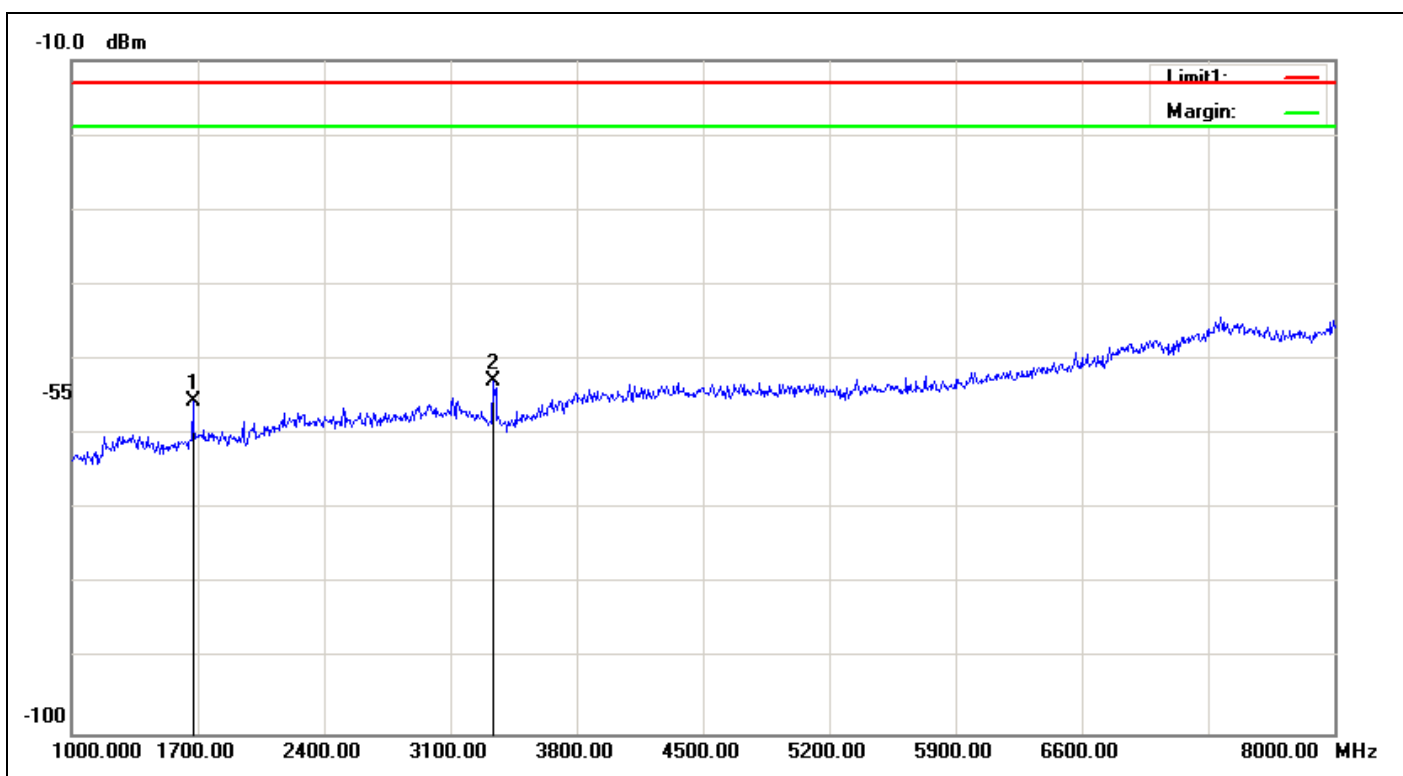
Tel:+886-2-2299-4086

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 01:48:08</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4182</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin dB	Theta (°)	Azimuth (°)	Remark
1	1672.000	-56.38	5.07	5.99	-55.46	-13.00	-42.46	230	274	peak
2	3338.000	-53.79	7.5	8.41	-52.88	-13.00	-39.88	230	213	peak



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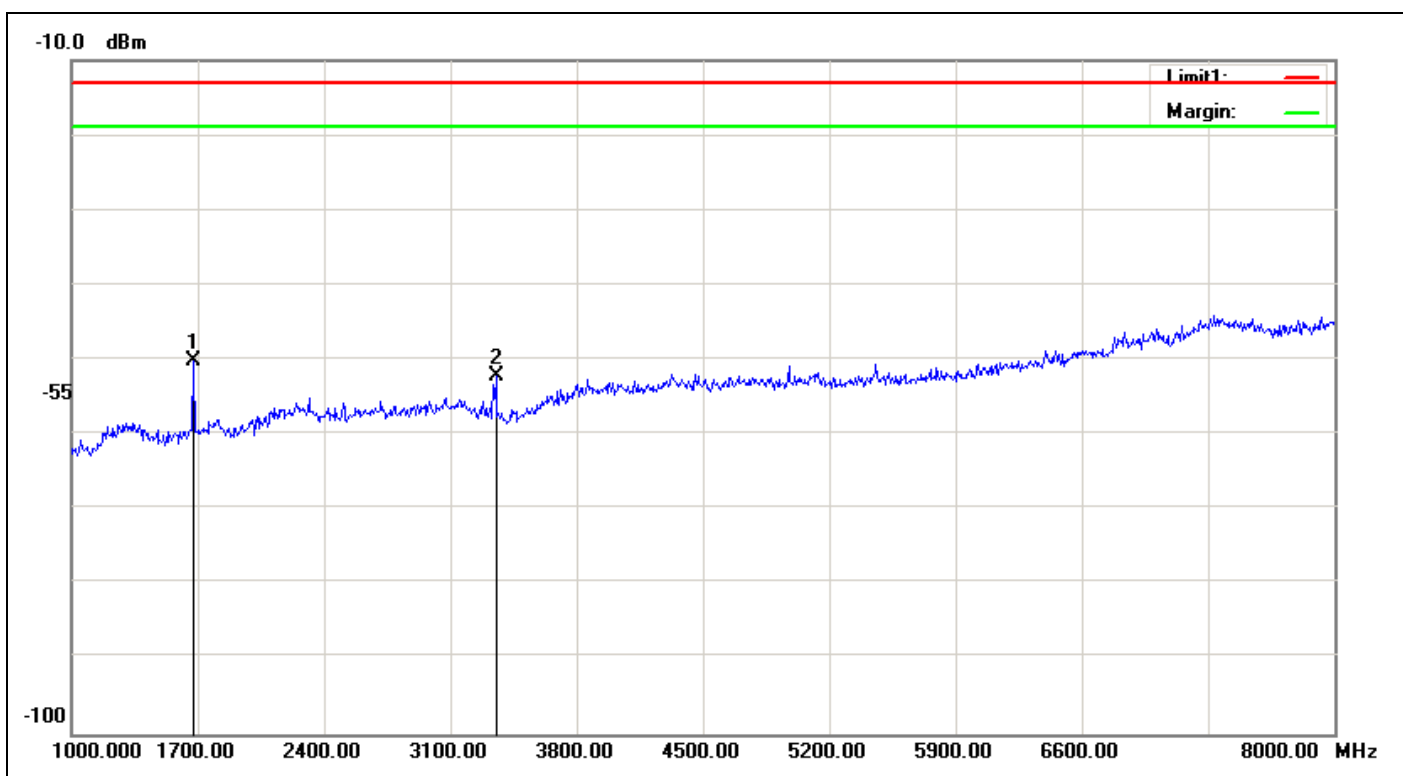
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:46:00
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-51.01	5.07	5.99	-50.09	-13.00	-37.09	230	57	peak
2	3352.000	-53.08	7.52	8.46	-52.14	-13.00	-39.14	230	154	peak



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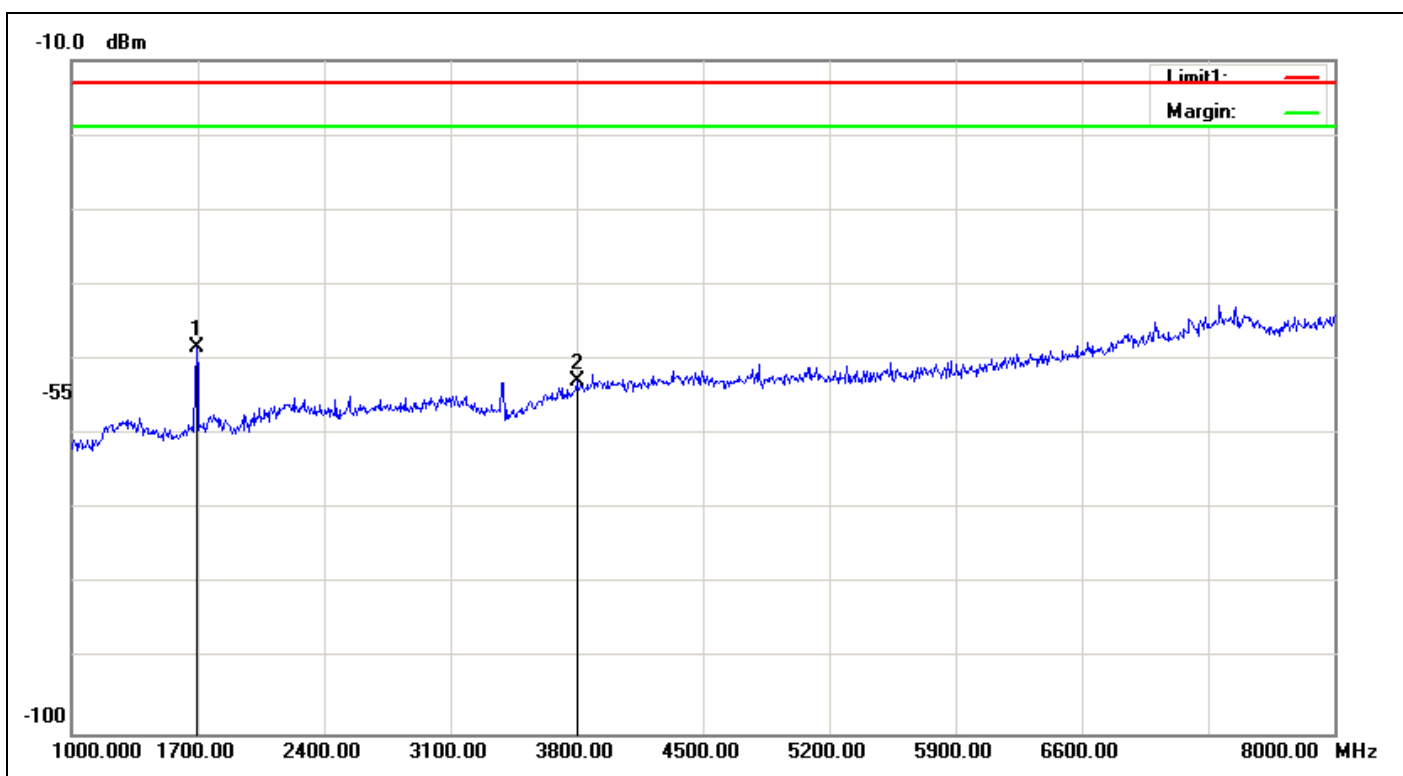
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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 01:43:40</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4233</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1693.000	-49.32	5.1	5.95	-48.47	-13.00	-35.47	230	13	peak
2	3800.000	-53.82	8.26	9.2	-52.88	-13.00	-39.88	230	246	peak



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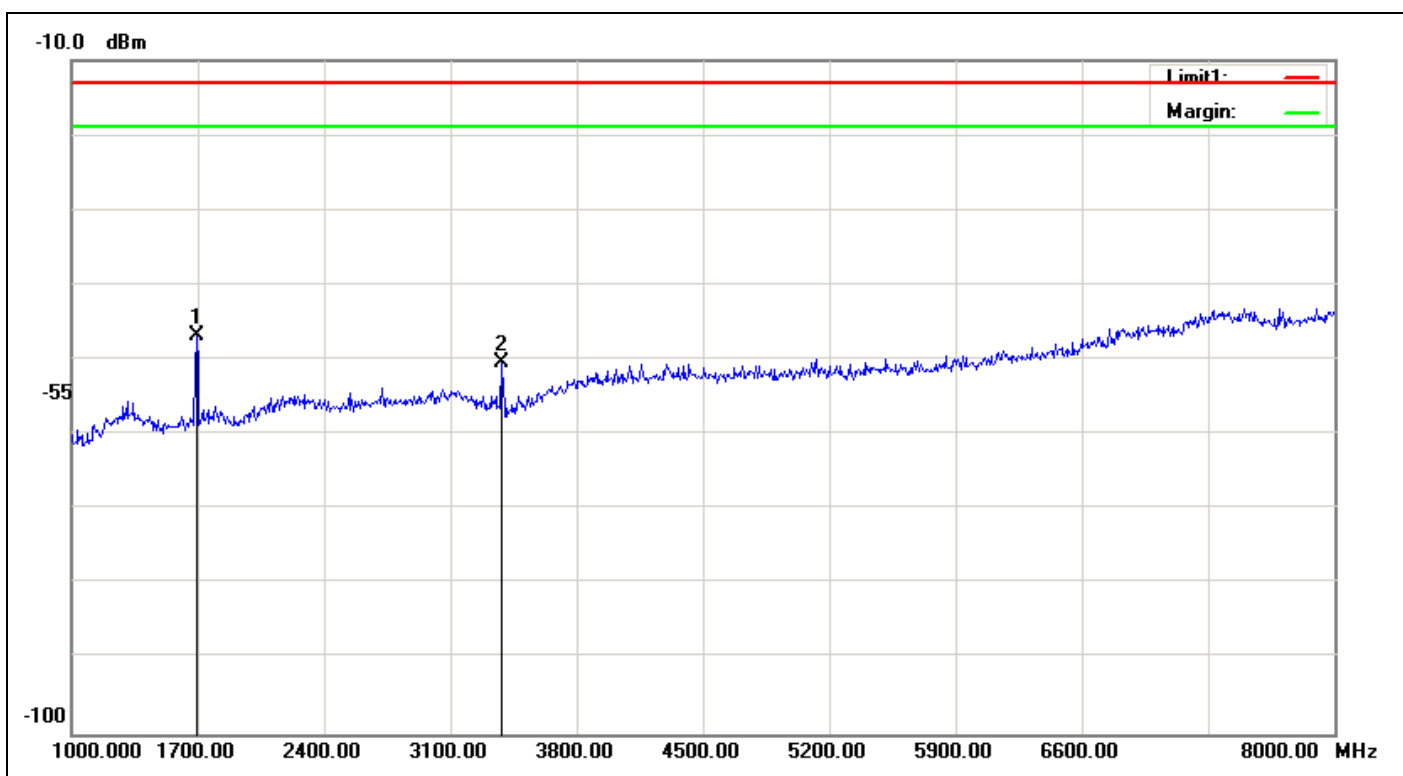
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 01:41:30
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1693.000	-47.67	5.1	5.95	-46.82	-13.00	-33.82	230	42	peak
2	3380.000	-51.35	7.55	8.54	-50.36	-13.00	-37.36	230	156	peak



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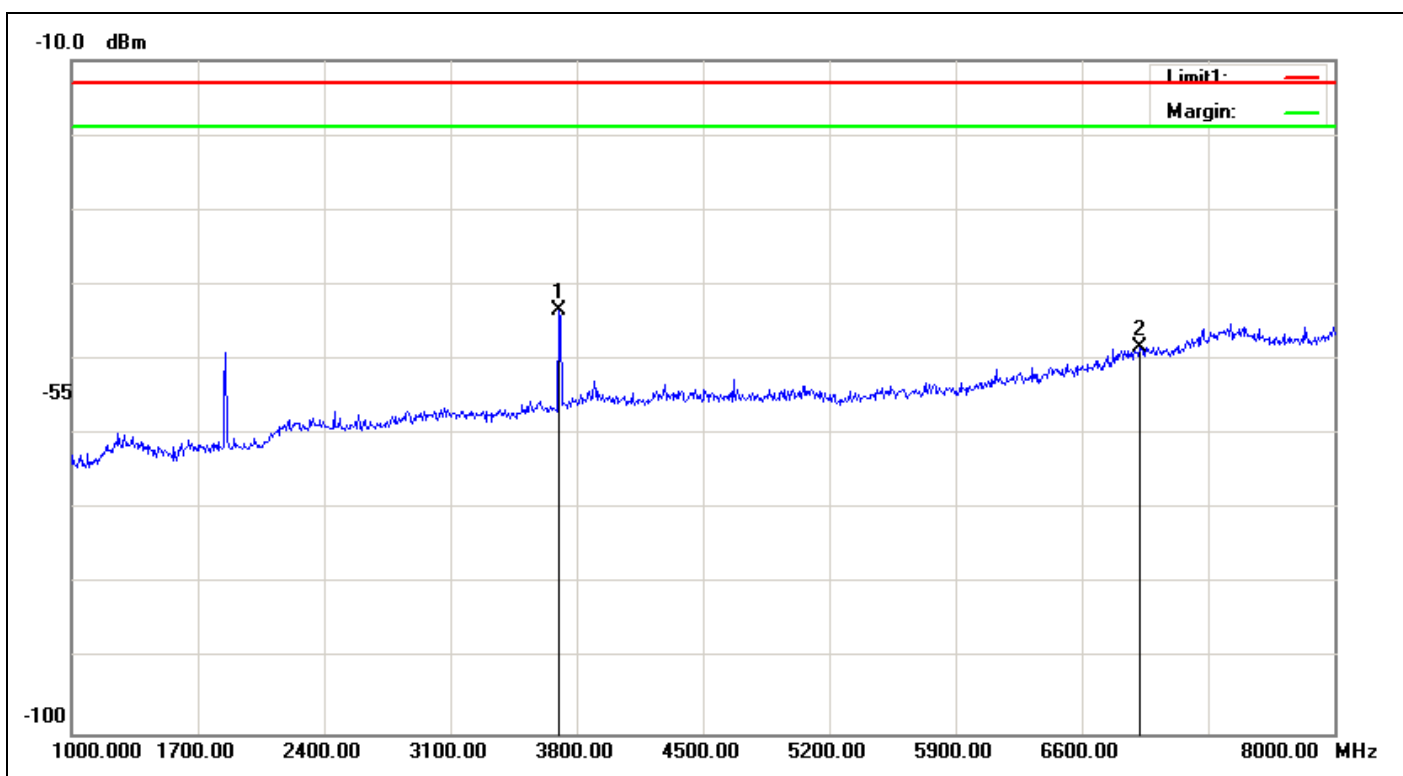
Tel:+886-2-2299-4086

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 04:23:21
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



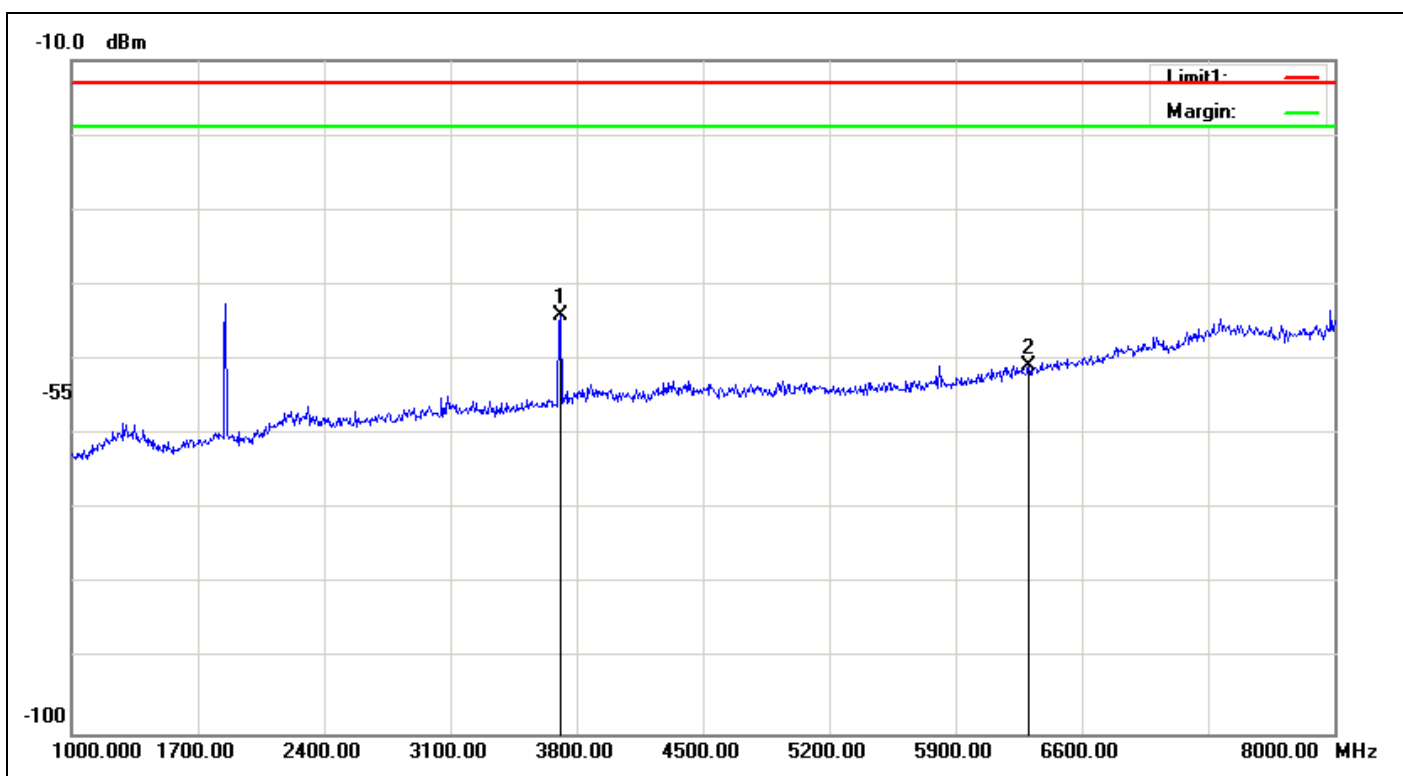
No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3702.000	-44.24	8.2	9.1	-43.34	-13.00	-30.34	230	161	peak
2	6922.000	-48.67	11.53	11.81	-48.39	-13.00	-35.39	230	357	peak





### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 04:21:13</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9262</b>		

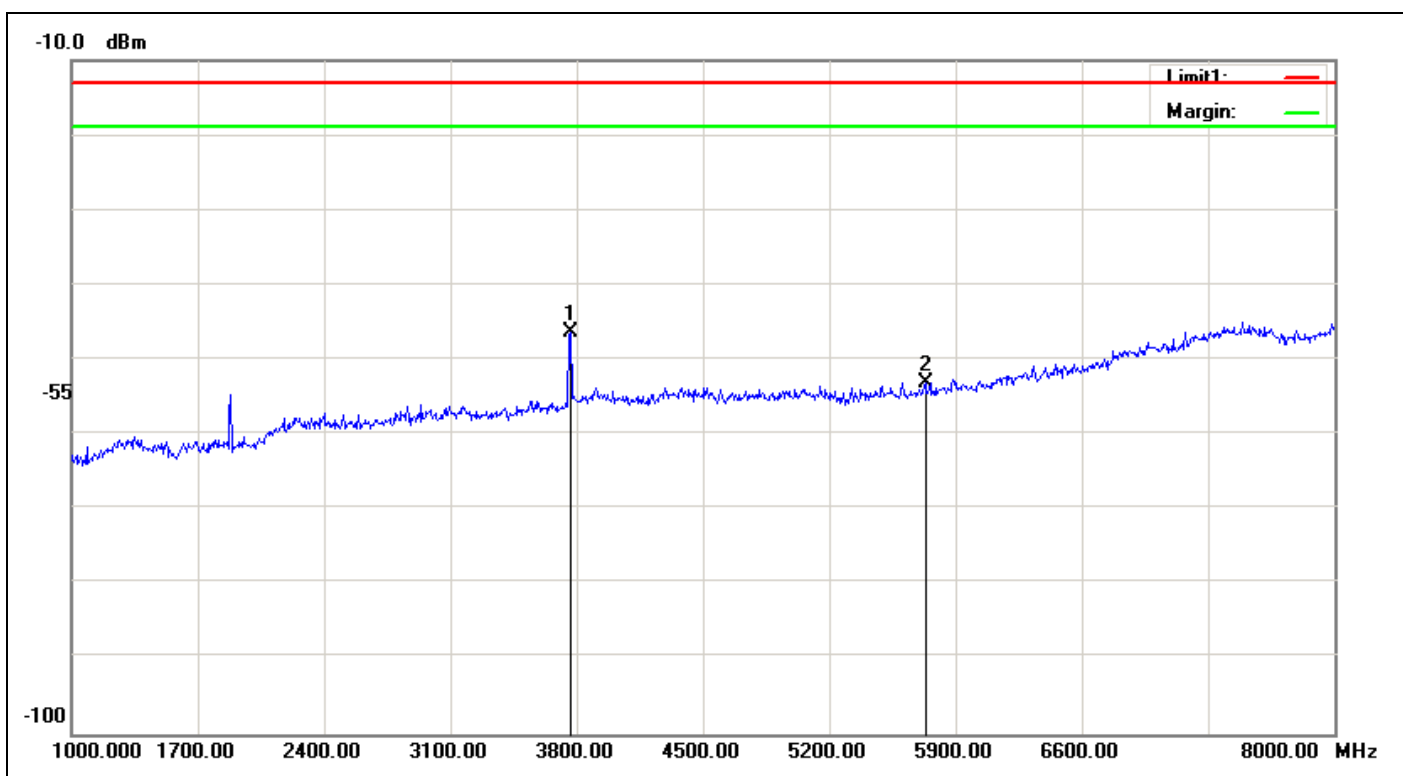


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3709.000	-44.9	8.21	9.11	-44.00	-13.00	-31.00	230	25	peak
2	6306.000	-51.11	10.78	11.14	-50.75	-13.00	-37.75	230	13	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 04:16:51
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		

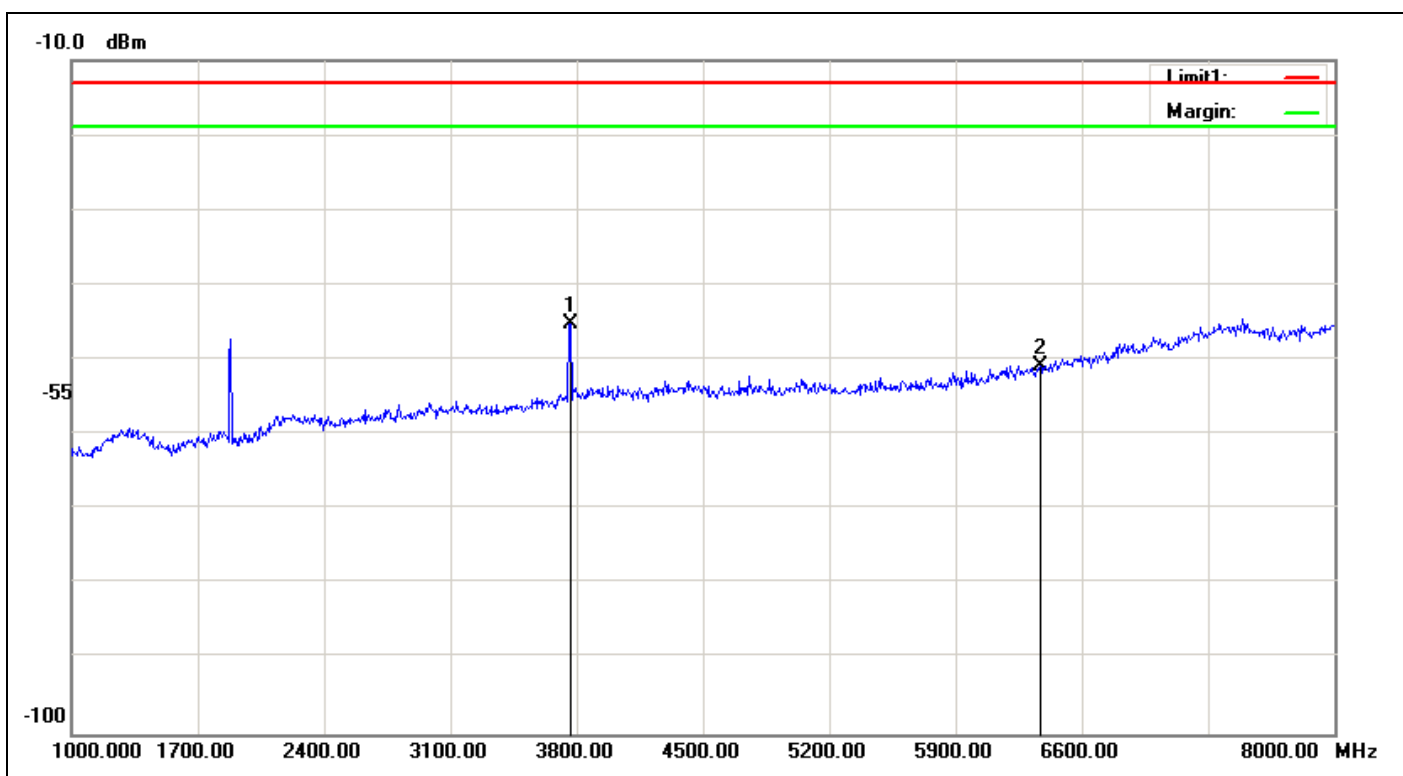


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3765.000	-47.24	8.24	9.16	-46.32	-13.00	-33.32	230	359	peak
2	5732.000	-53.68	10.24	10.85	-53.07	-13.00	-40.07	230	219	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 04:18:53
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3765.000	-46.13	8.24	9.16	-45.21	-13.00	-32.21	230	259	peak
2	6369.000	-50.92	11.07	11.2	-50.79	-13.00	-37.79	230	58	peak



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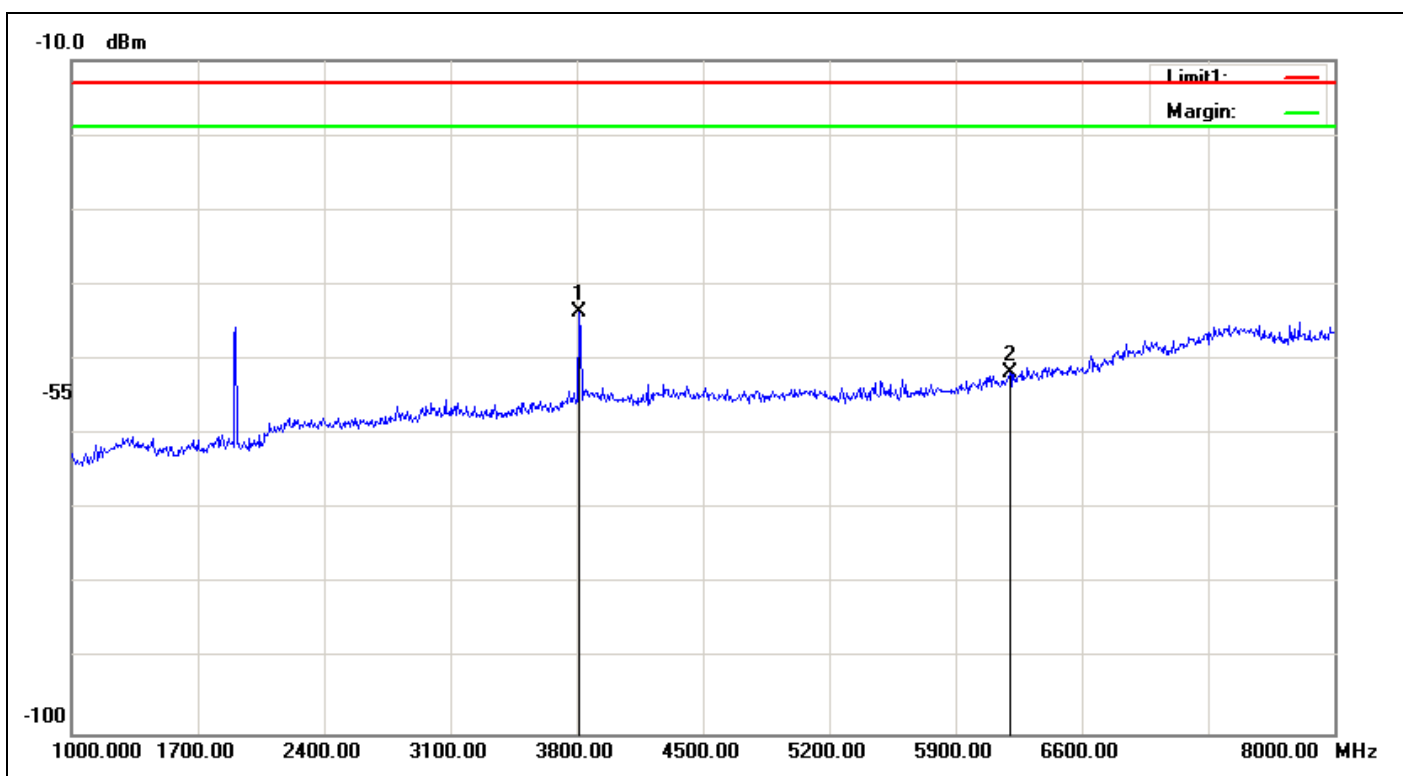
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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 04:14:18
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3814.000	-44.63	8.28	9.21	-43.70	-13.00	-30.70	230	57	peak
2	6201.000	-51.47	11.22	11.06	-51.63	-13.00	-38.63	230	192	peak



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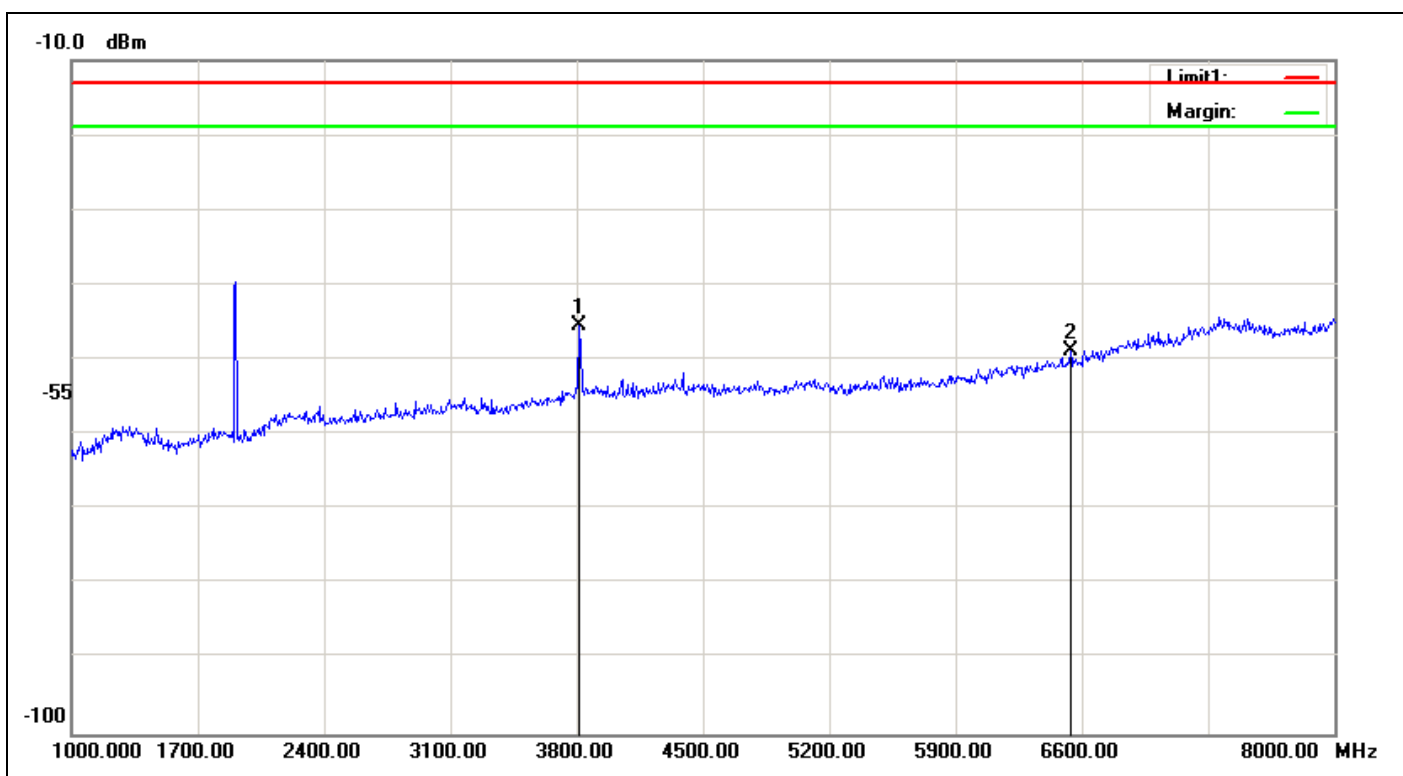
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### Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 04:12:09</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9538</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3814.000	-46.45	8.28	9.21	-45.52	-13.00	-32.52	230	274	peak
2	6537.000	-49.04	11.11	11.34	-48.81	-13.00	-35.81	230	16	peak



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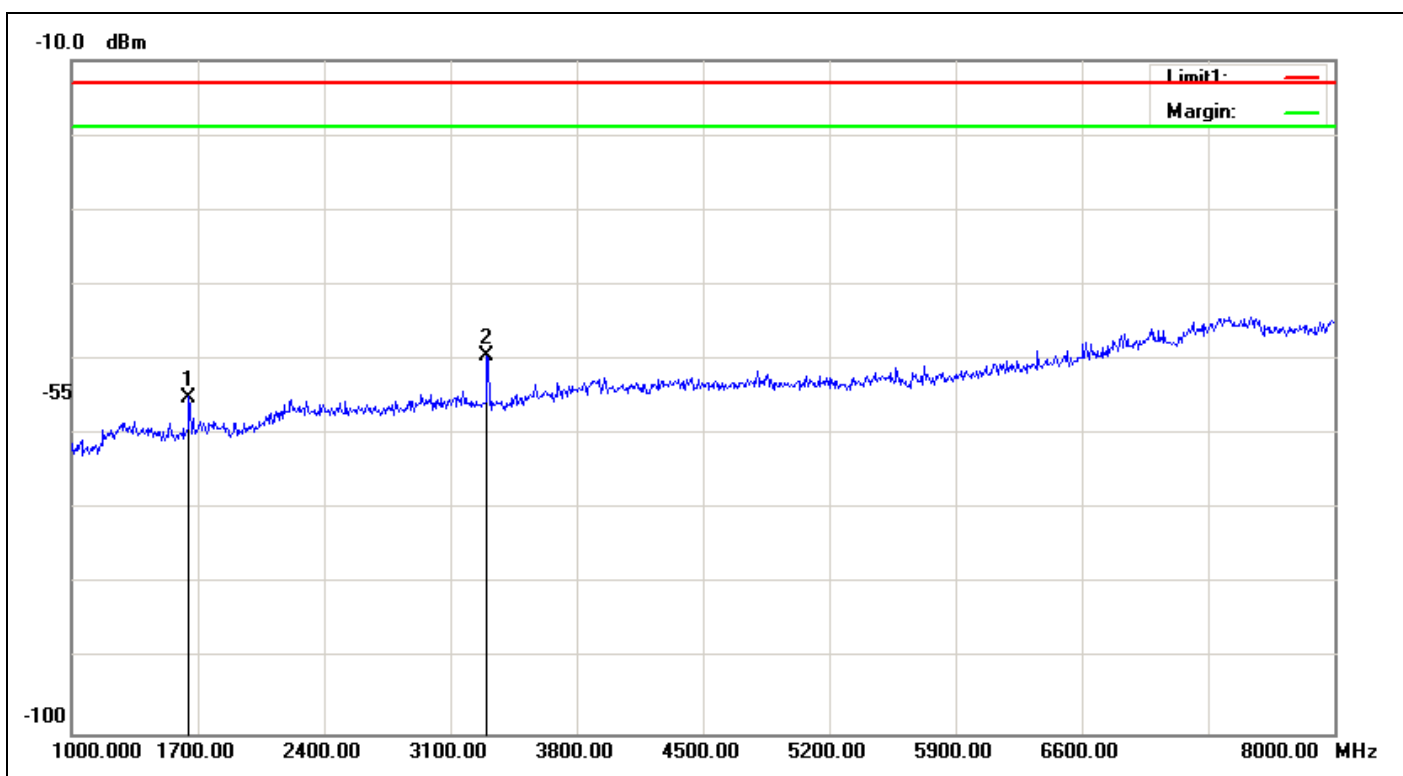
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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:56:59
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-55.98	5.05	6.03	-55.00	-13.00	-42.00	230	356	peak
2	3303.000	-50.33	7.46	8.31	-49.48	-13.00	-36.48	230	211	peak



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五股實驗室 Wugu LAB

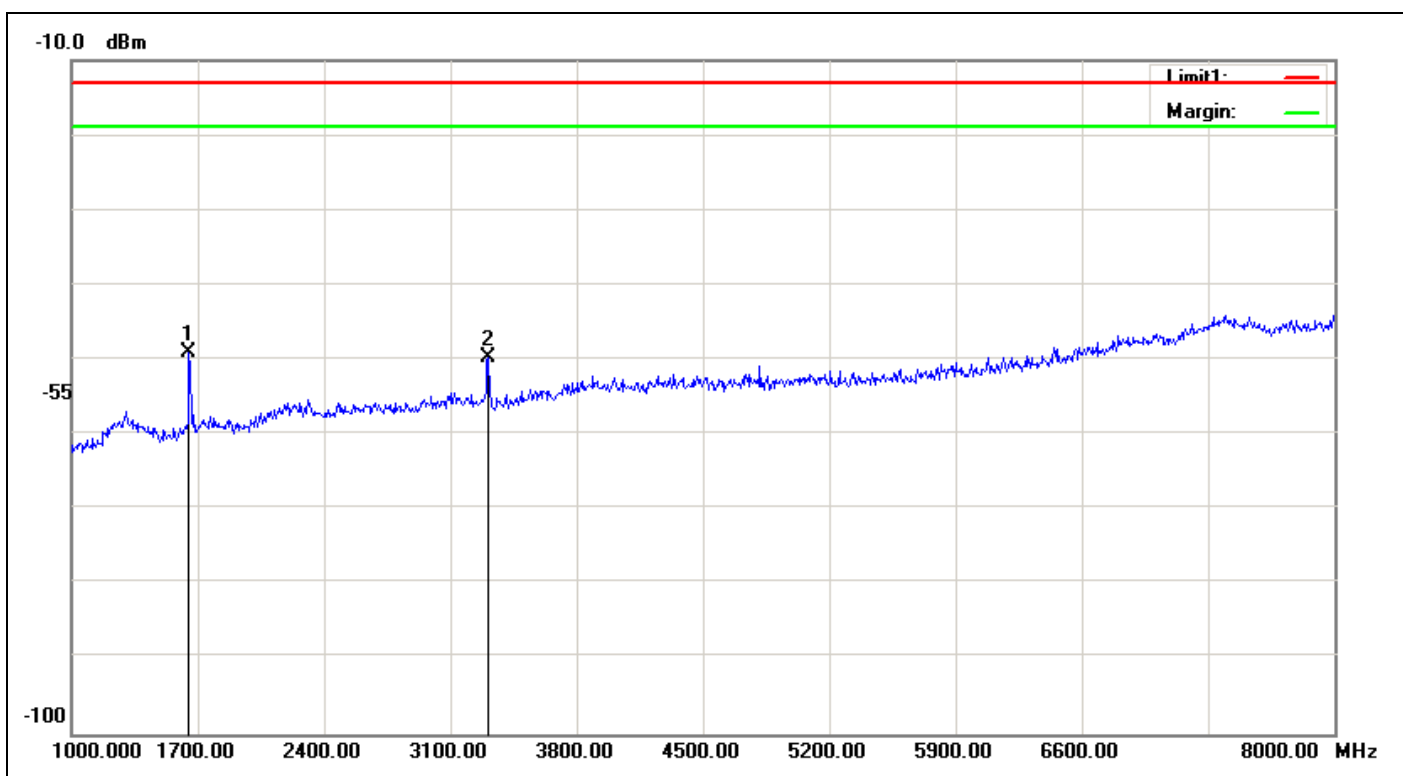
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 03:59:10
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-49.92	5.05	6.03	-48.94	-13.00	-35.94	230	61	peak
2	3310.000	-50.48	7.47	8.33	-49.62	-13.00	-36.62	230	152	peak



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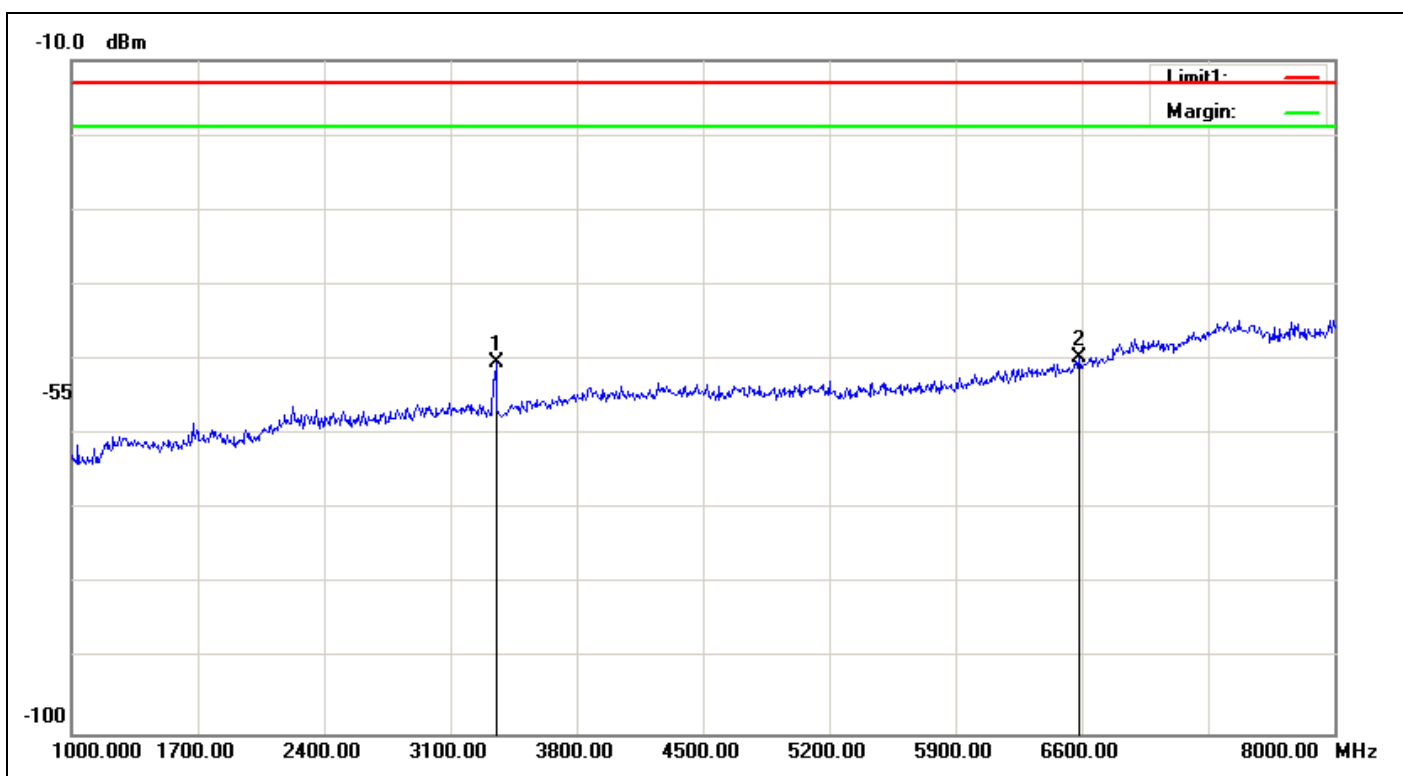
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 04:03:31</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4182</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3352.000	-51.39	7.52	8.46	-50.45	-13.00	-37.45	230	210	peak
2	6586.000	-49.9	11.2	11.4	-49.70	-13.00	-36.70	230	116	peak





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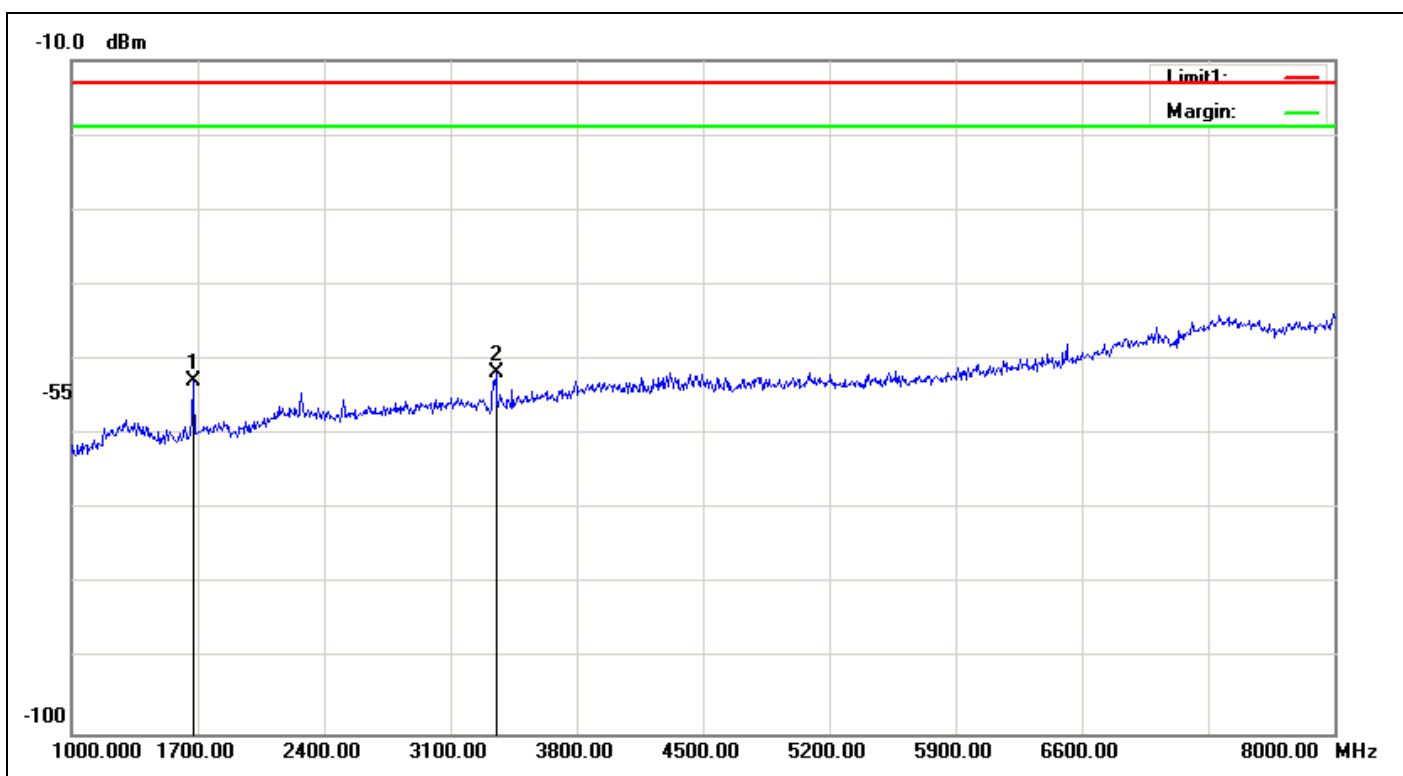
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 04:01:25
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-53.8	5.07	5.99	-52.88	-13.00	-39.88	230	60	peak
2	3352.000	-52.64	7.52	8.46	-51.70	-13.00	-38.70	230	155	peak



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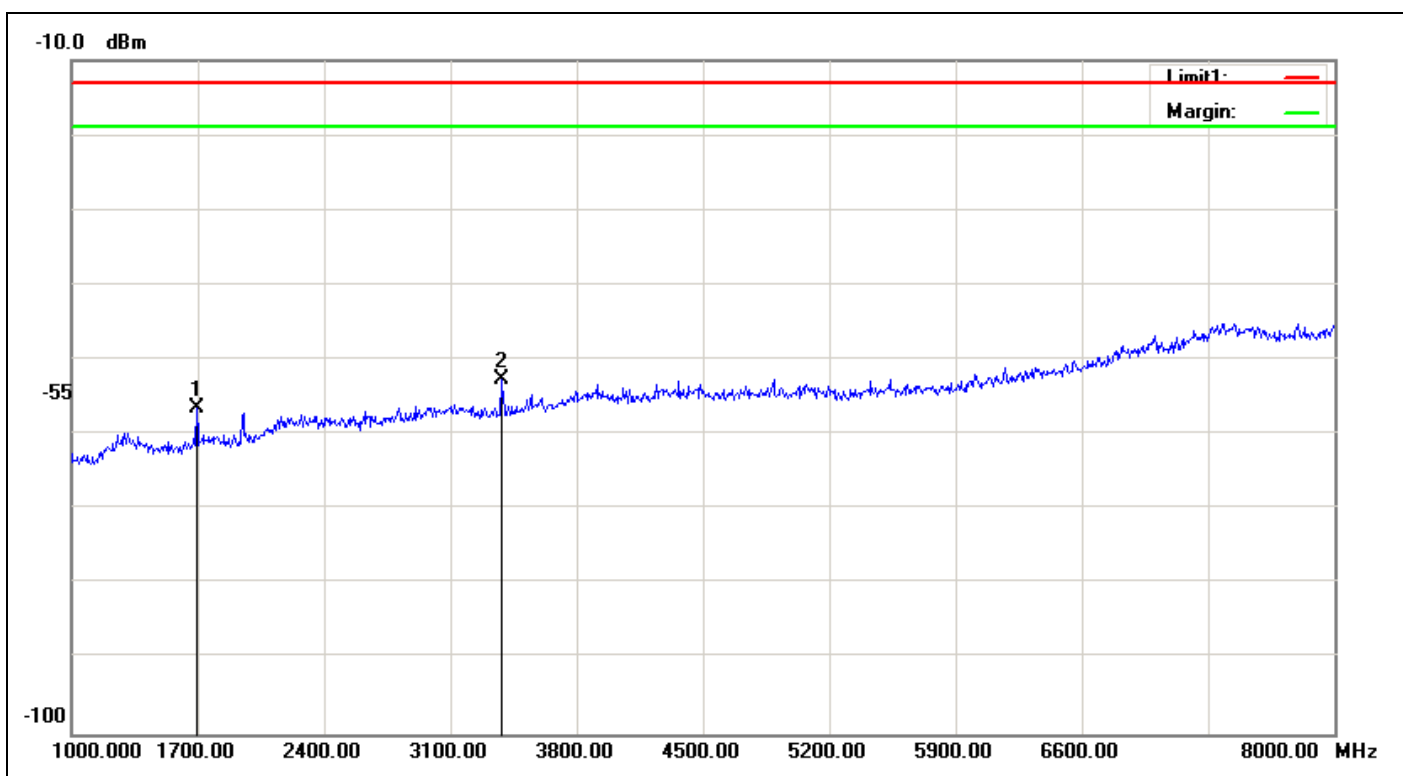
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 04:05:51
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4233		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1693.000	-57.35	5.1	5.95	-56.50	-13.00	-43.50	230	354	peak
2	3380.000	-53.7	7.55	8.54	-52.71	-13.00	-39.71	230	222	peak



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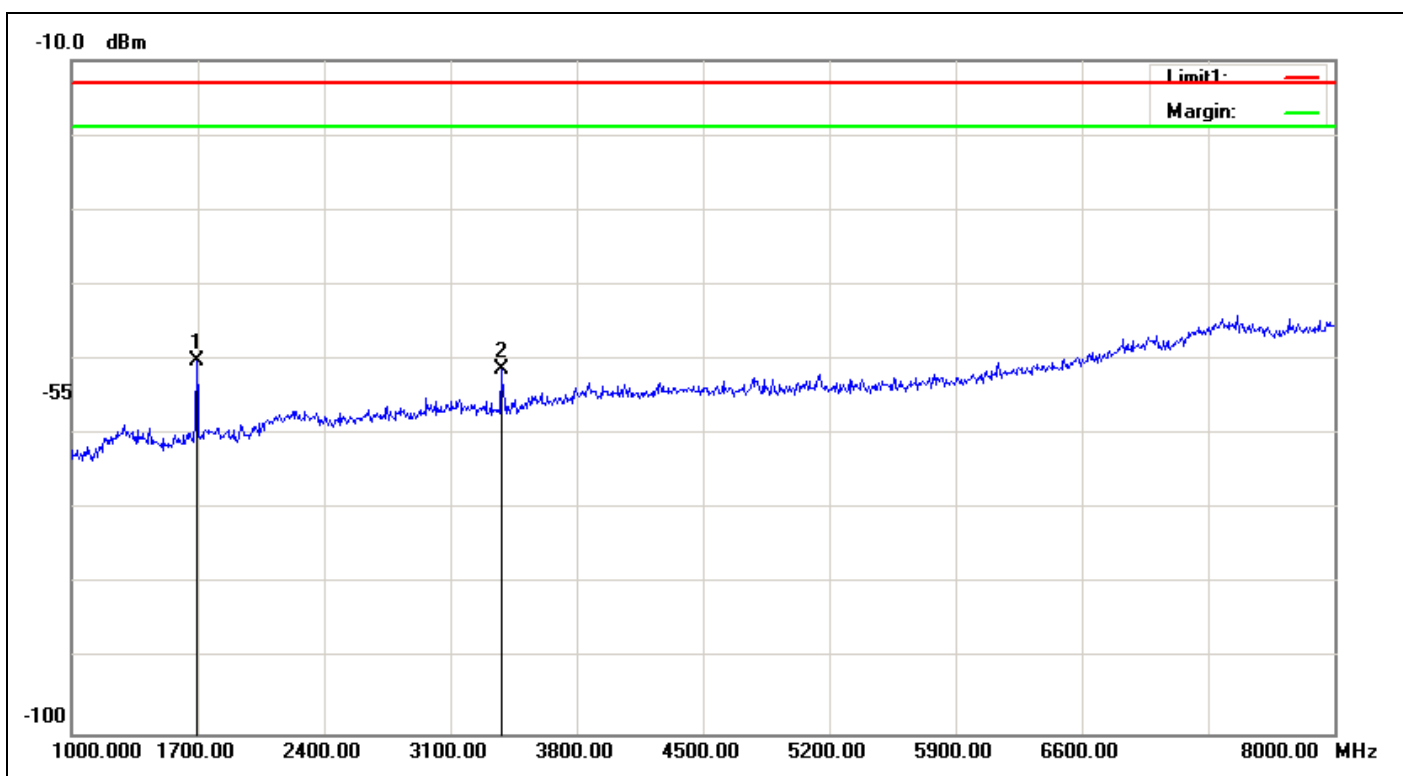
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 04:08:34</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4233</b>		

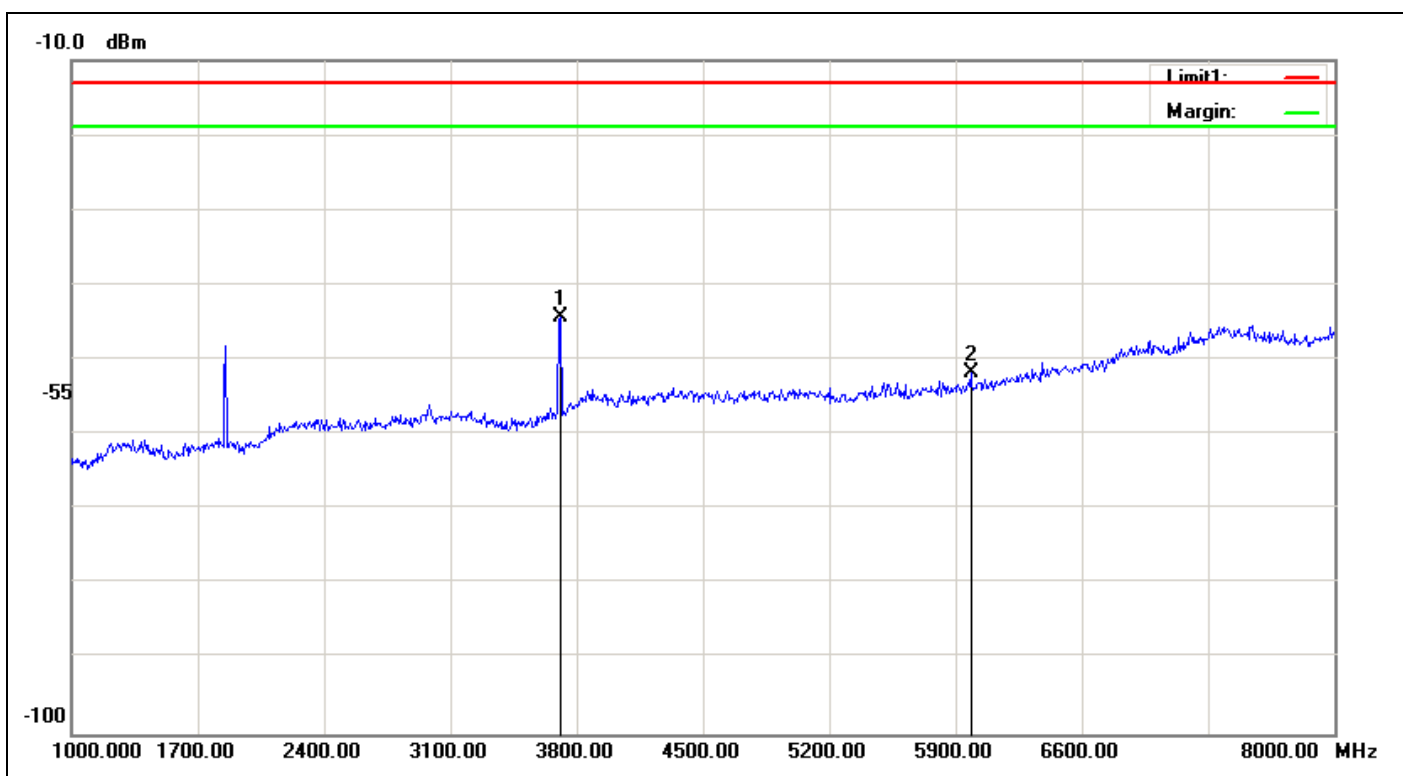


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1693.000	-50.91	5.1	5.95	-50.06	-13.00	-37.06	230	49	peak
2	3380.000	-52.39	7.55	8.54	-51.40	-13.00	-38.40	230	159	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:18:56
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		

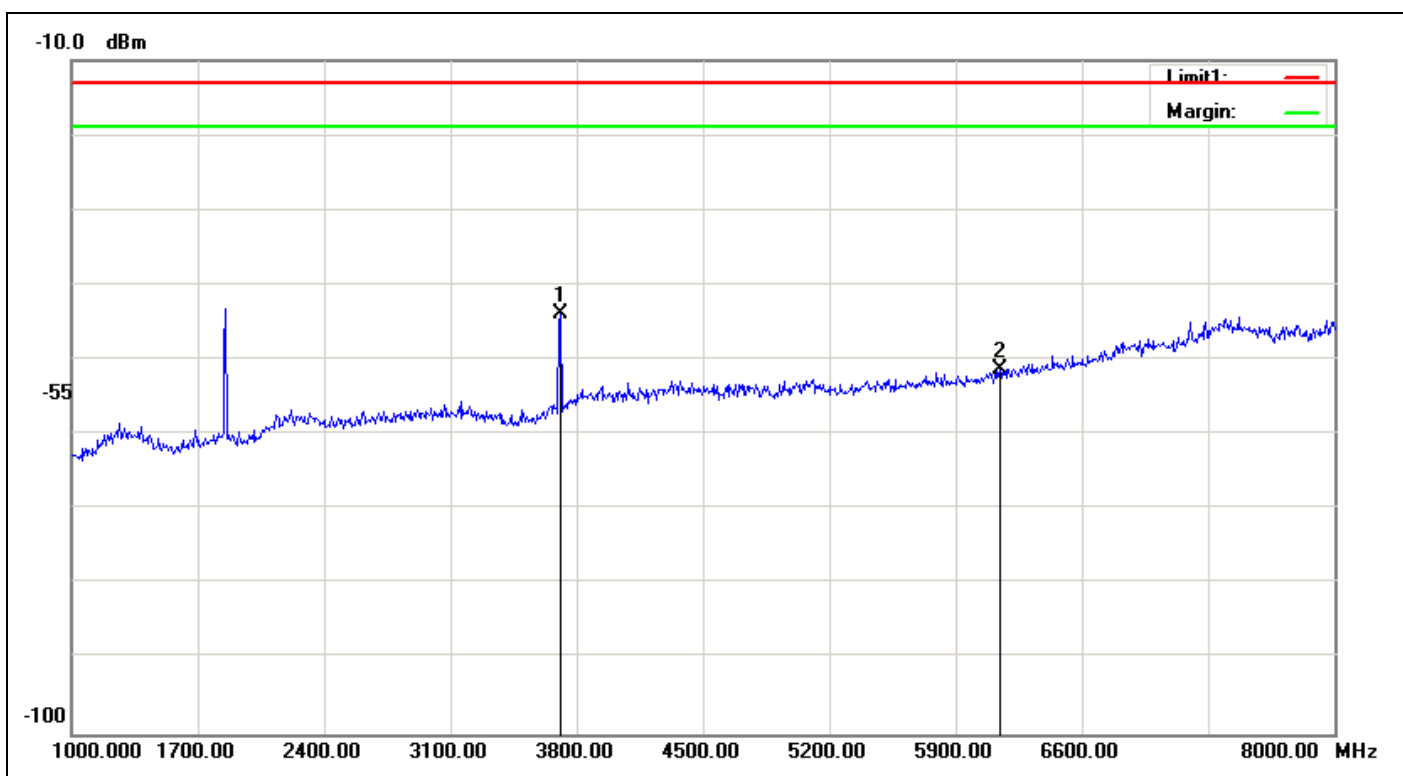


No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3709.000	-45.21	8.21	9.11	-44.31	-13.00	-31.31	230	23	peak
2	5984.000	-51.94	10.76	10.9	-51.80	-13.00	-38.80	230	359	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:21:16
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9262		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3709.000	-44.66	8.21	9.11	-43.76	-13.00	-30.76	230	241	peak
2	6145.000	-51.37	10.89	11.02	-51.24	-13.00	-38.24	230	49	peak



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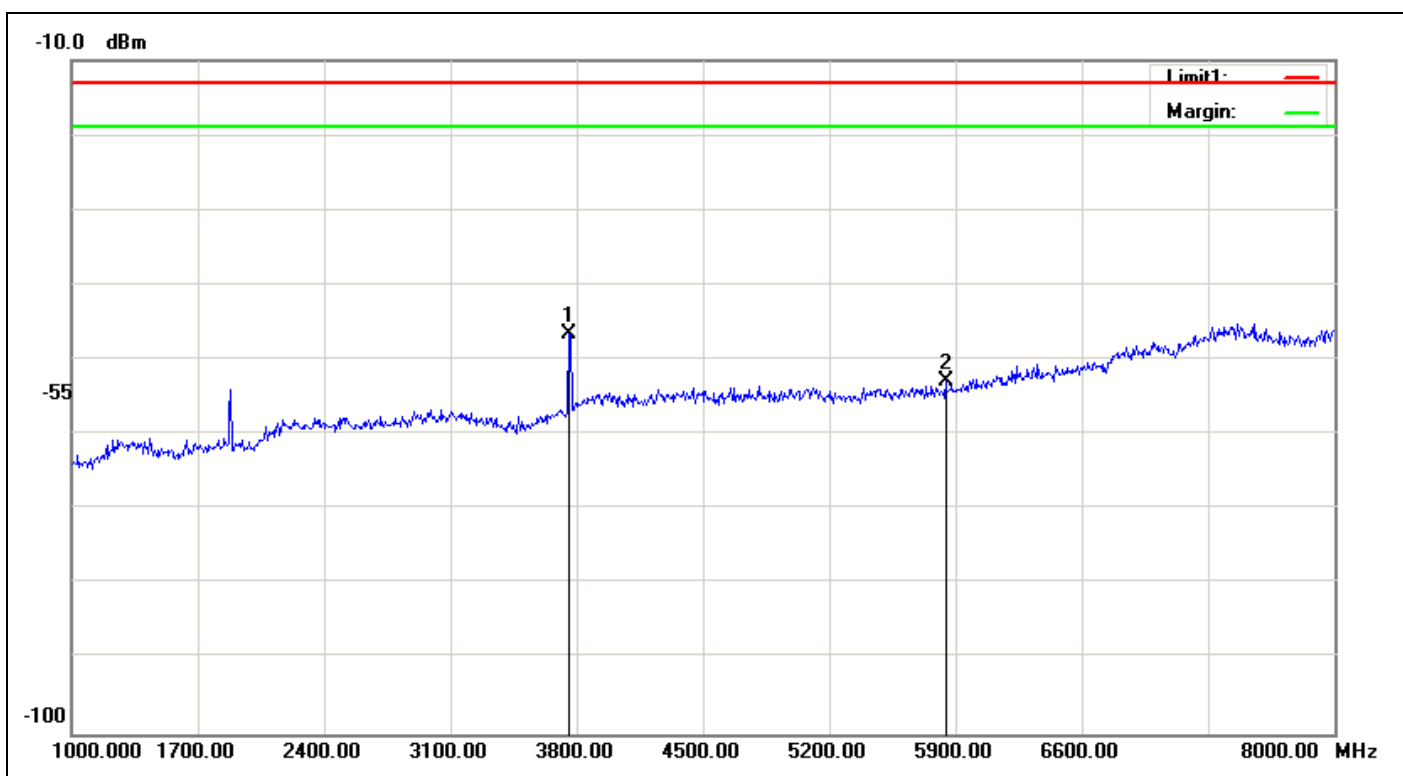
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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 02:25:33</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>II-9400</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-47.57	8.23	9.16	-46.64	-13.00	-33.64	230	194	peak
2	5844.000	-53.32	10.41	10.87	-52.86	-13.00	-39.86	230	352	peak



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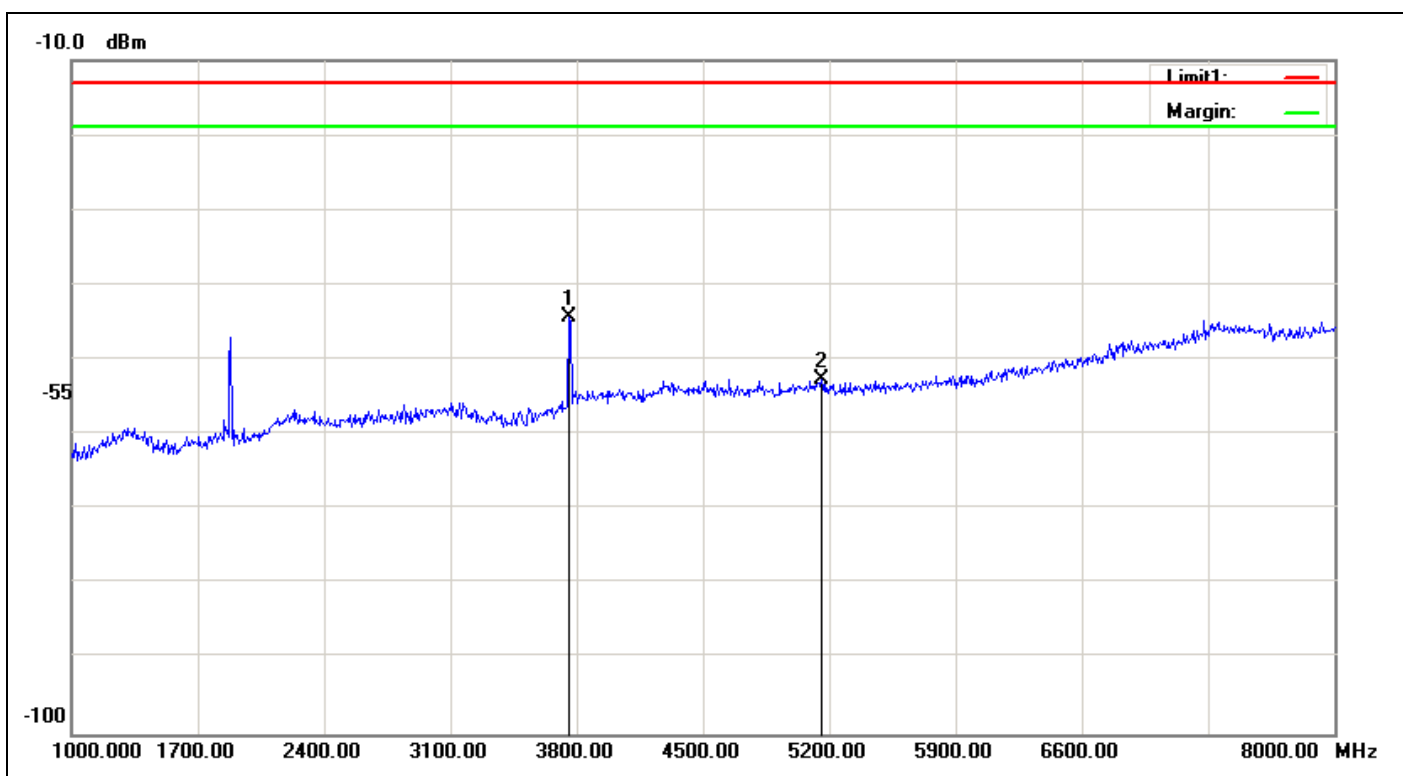
Tel:+886-2-2299-4086

Fax:

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Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:23:34
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9400		

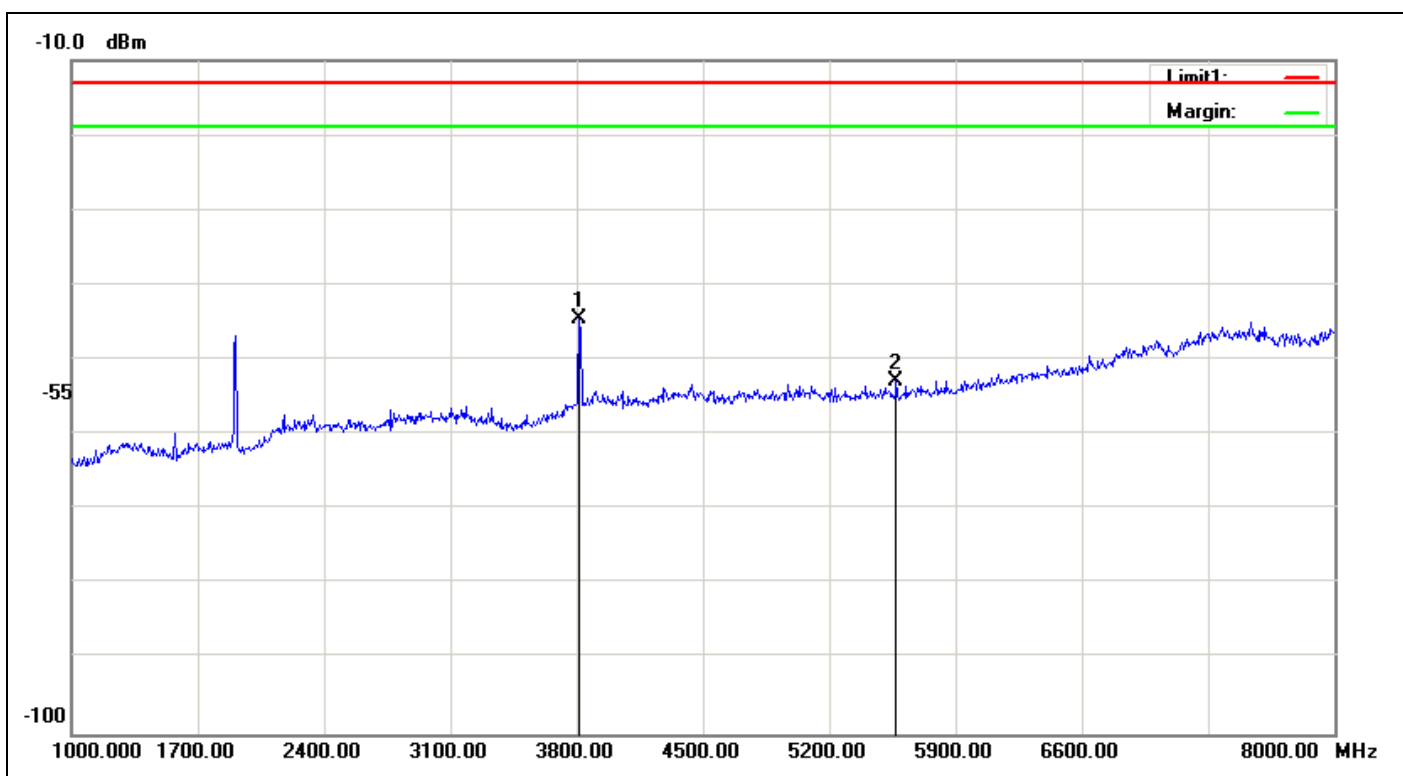


No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3758.000	-45.14	8.23	9.16	-44.21	-13.00	-31.21	230	239	peak
2	5158.000	-53.71	9.51	10.66	-52.56	-13.00	-39.56	230	236	peak



Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:27:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3814.000	-45.57	8.28	9.21	-44.64	-13.00	-31.64	230	47	peak
2	5571.000	-53.48	10.12	10.81	-52.79	-13.00	-39.79	230	308	peak





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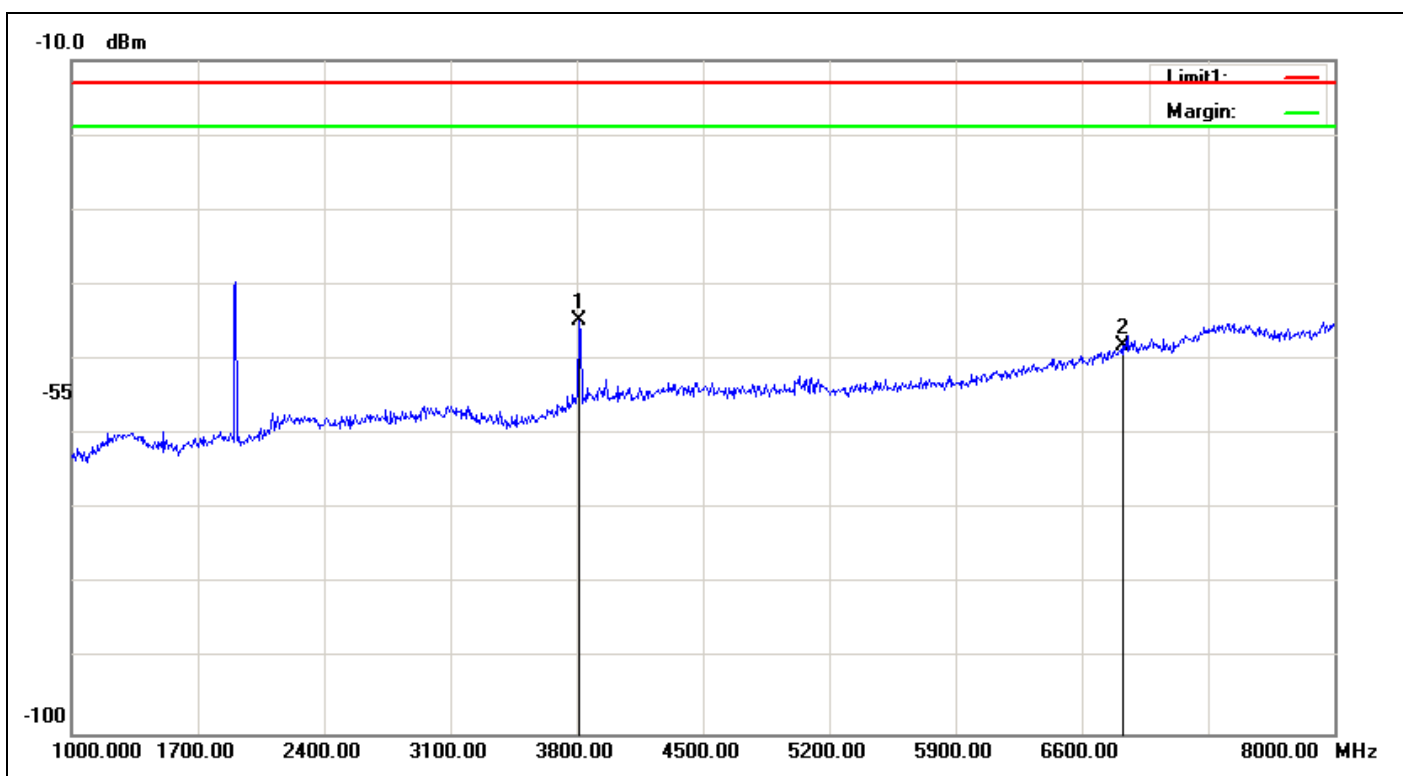
Tel:+886-2-2299-4086

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:29:52
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	II-9538		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3814.000	-45.74	8.28	9.21	-44.81	-13.00	-31.81	230	316	peak
2	6824.000	-48.41	11.36	11.69	-48.08	-13.00	-35.08	230	237	peak



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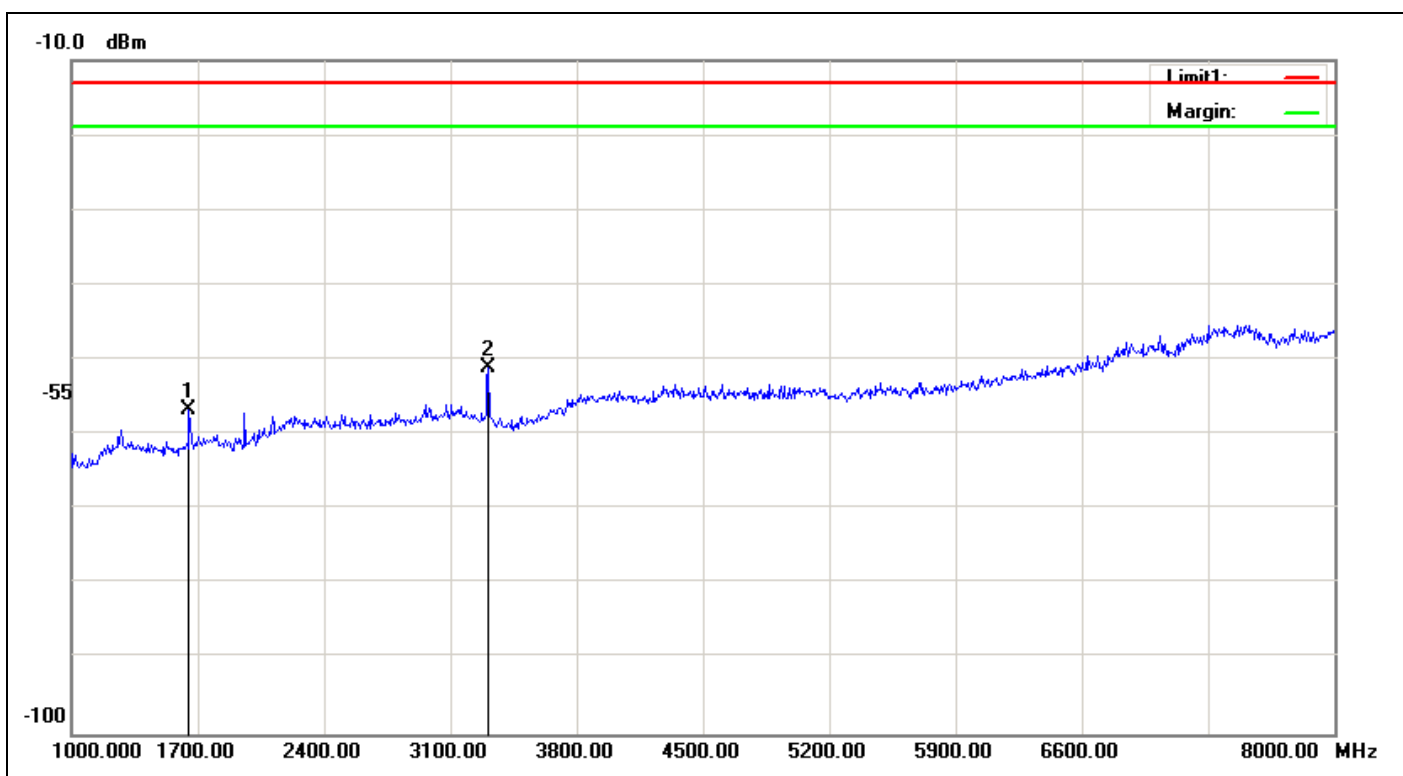
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 02:45:00</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4132</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-57.67	5.05	6.03	-56.69	-13.00	-43.69	230	267	peak
2	3310.000	-51.93	7.47	8.33	-51.07	-13.00	-38.07	230	215	peak



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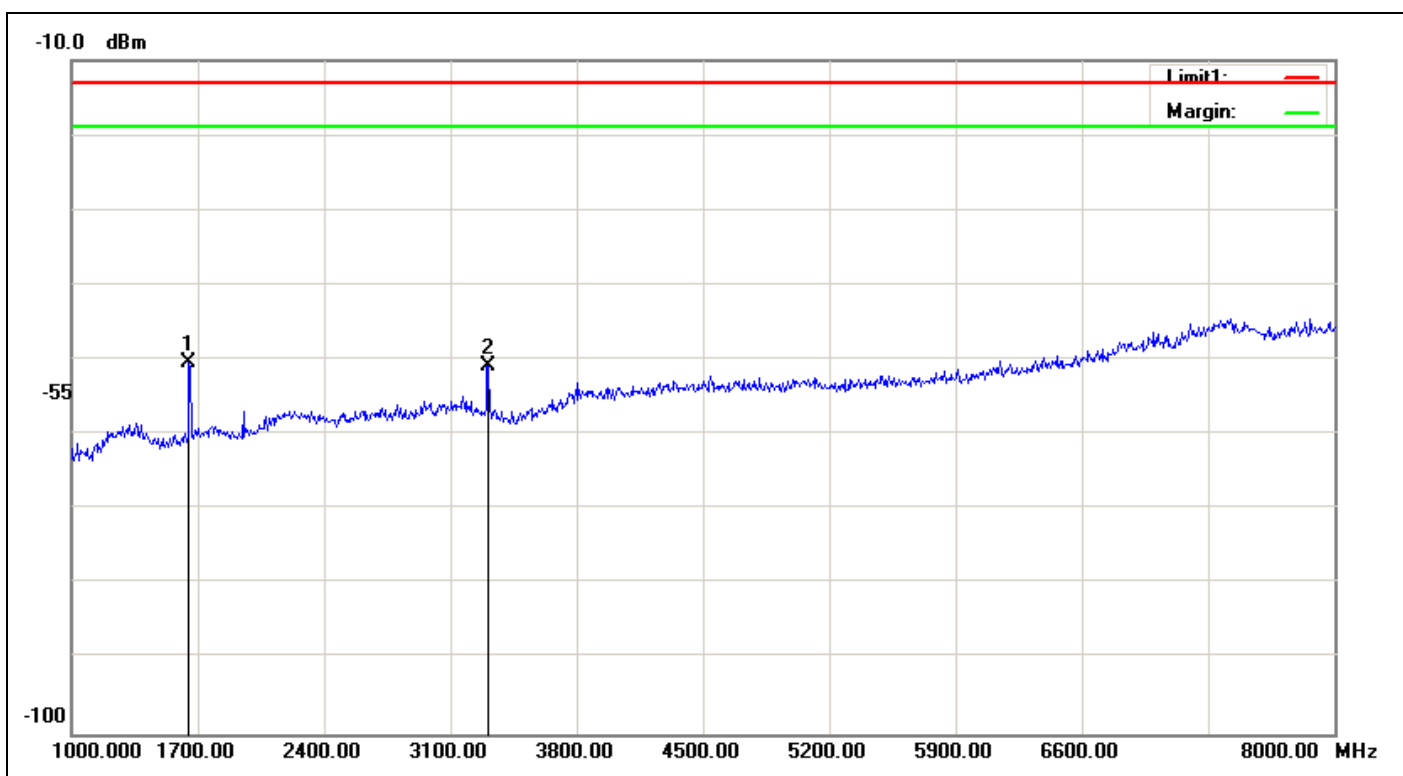
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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:42:41
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4132		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1651.000	-51.3	5.05	6.03	-50.32	-13.00	-37.32	230	52	peak
2	3310.000	-51.59	7.47	8.33	-50.73	-13.00	-37.73	230	150	peak



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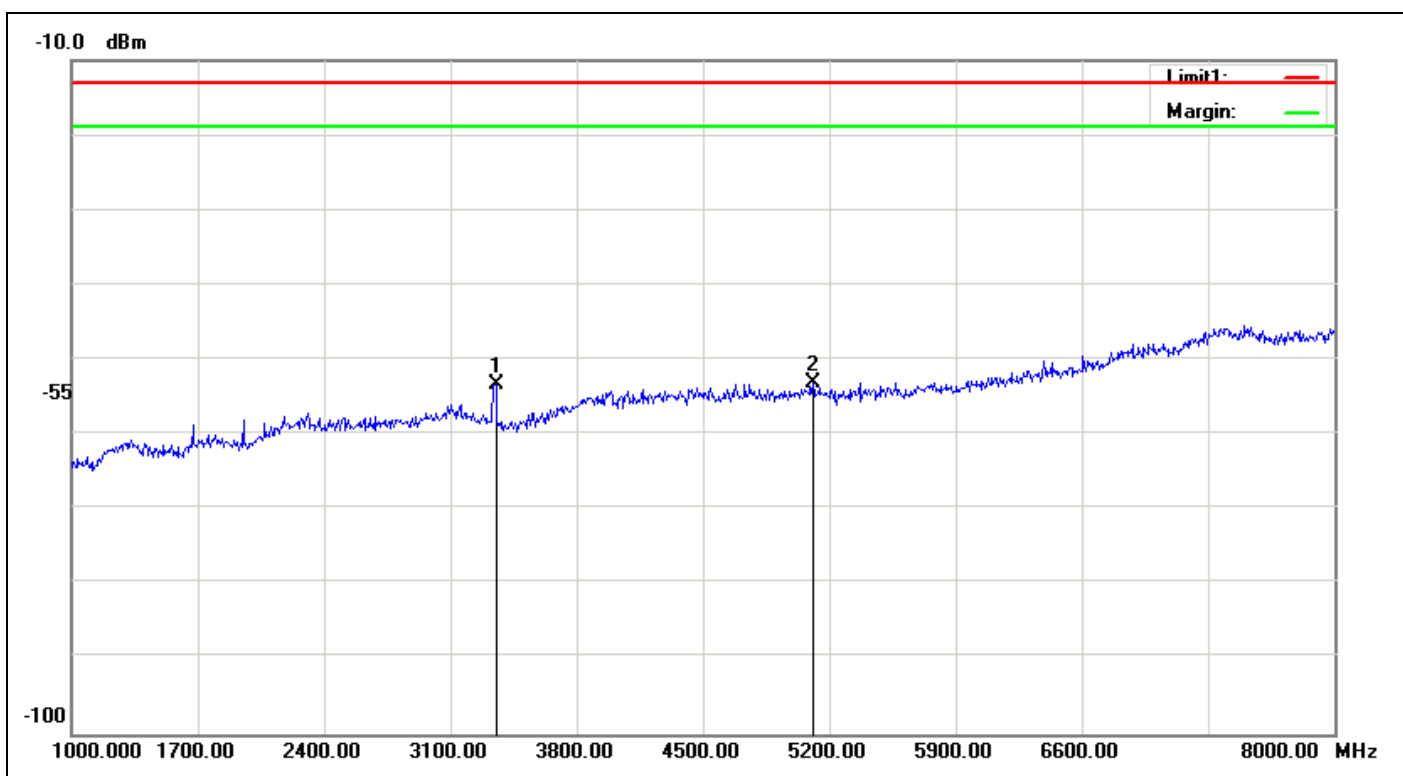
Tel:+886-2-2299-4086

Fax:

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## Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Vertical
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:47:22
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	3352.000	-54.18	7.52	8.46	-53.24	-13.00	-40.24	230	216	peak
2	5109.000	-54.34	9.46	10.64	-53.16	-13.00	-40.16	230	320	peak



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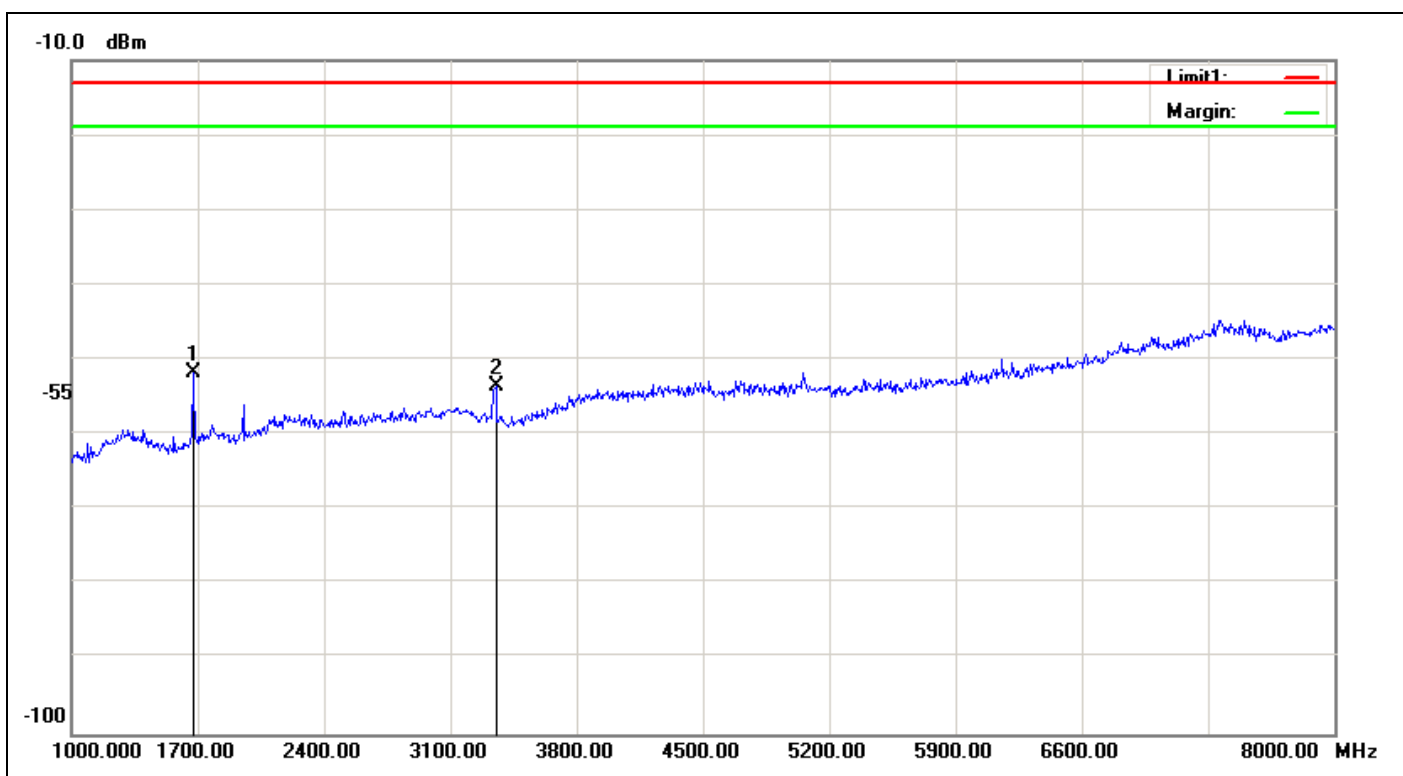
Tel:+886-2-2299-4086

Fax:

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### Chamber #1

Job No.:	T140716W05-AT4	Ant.Polar.:	Horizontal
Standard:	FCC part 22(24)	Test Distance:	3m
Test item:	Radiation Test	Power:	
Temp.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2014/8/19	Time:下午 02:49:48
Company:	HL8548	Test By:	Dennis.Li
Model:	安達富		
Description:	V-4182		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss(dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-52.74	5.07	5.99	-51.82	-13.00	-38.82	230	30	peak
2	3352.000	-54.57	7.52	8.46	-53.63	-13.00	-40.63	230	151	peak



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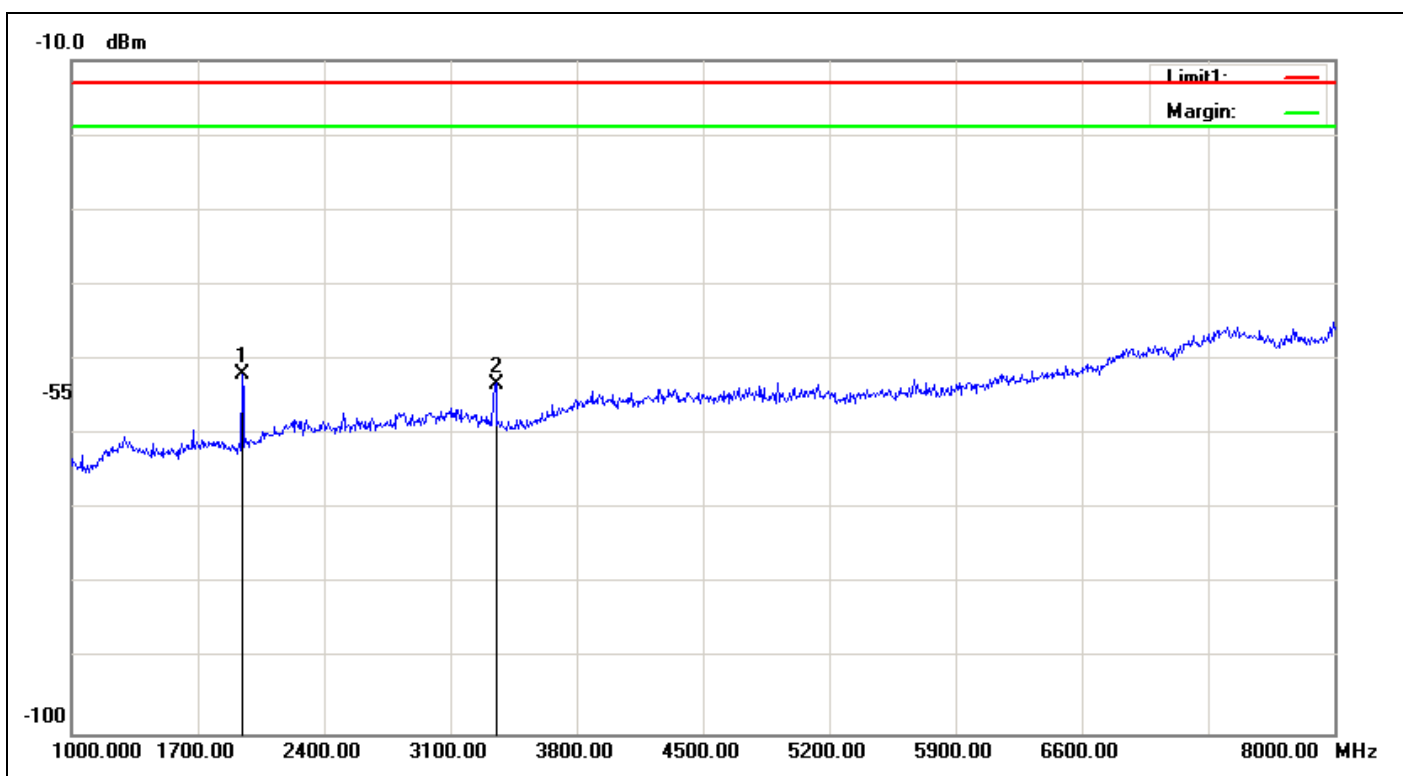
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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:</b> 2014/8/19	<b>Time:</b> 下午 02:54:04
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4233</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1945.000	-51.86	5.57	5.5	-51.93	-13.00	-38.93	230	321	peak
2	3352.000	-54.14	7.52	8.46	-53.20	-13.00	-40.20	230	212	peak



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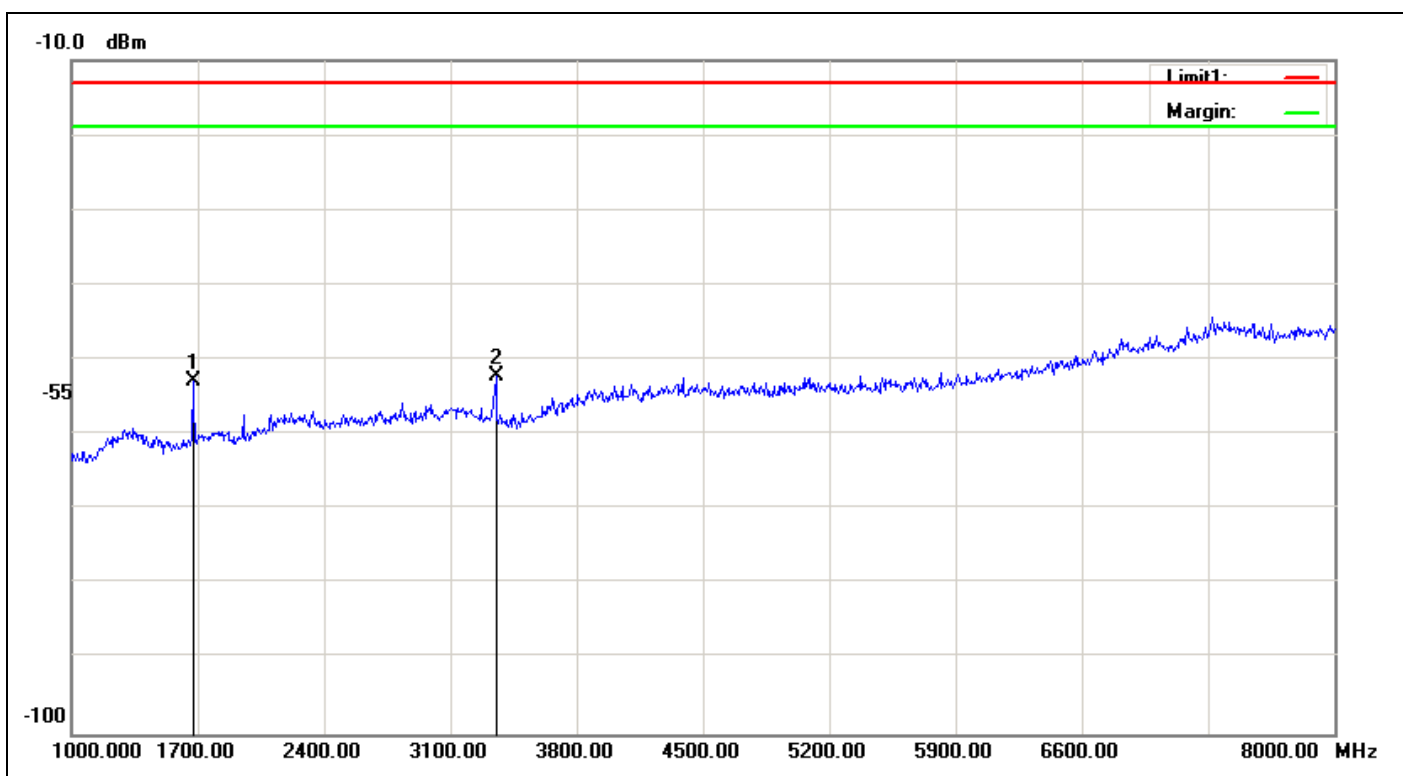
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## Chamber #1

<b>Job No.:</b>	<b>T140716W05-AT4</b>	<b>Ant.Polar.:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>FCC part 22(24)</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power:</b>	
<b>Temp.(°C)/Hum.(%RH):</b>	<b>26(°C)/60%RH</b>	<b>Date:2014/8/19</b>	<b>Time:下午 02:52:00</b>
<b>Company:</b>	<b>HL8548</b>	<b>Test By:</b>	<b>Dennis.Li</b>
<b>Model:</b>	<b>安達富</b>		
<b>Description:</b>	<b>V-4233</b>		



No.	Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)	Theta (°)	Azimuth (°)	Remark
1	1672.000	-53.74	5.07	5.99	-52.82	-13.00	-39.82	230	68	peak
2	3352.000	-53.18	7.52	8.46	-52.24	-13.00	-39.24	230	157	peak