



Test Report

FCC Part15 Subpart C

Product Name : WCDMA Digital Mobile Phone
Model No. : HUAWEI Y321-U051
FCC ID : QISY321-U051

Applicant : HUAWEI TECHNOLOGIES CO.,LTD
Address : Administration Building, Headquarters of Huawei
Technologies Co., Ltd., Bantian, Longgang District,
Shenzhen, 518129, P.R.C

Date of Receipt : 10/07/2013
Test Date : 10/07/2013~31/07/2013
Issued Date : 20/08/2013
Report No. : 137S048R-RF-US-P06V01
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : 20/08/2013

Report No. : 137S048R-RF-US-P06V01



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Manufacturer : HUAWEI TECHNOLOGIES CO.,LTD
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Technologies Co., Ltd., Bantian, Longgang District,
Shenzhen, 518129, P.R.C
Model No. : HUAWEI Y321-U051
FCC ID : QISY321-U051
EUT Voltage : DC 3.7V
Brand Name : HUAWEI
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2012
ANSI C63.4: 2009, KDB 558074
Test Result : Complied
Performed Location : Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park Loufeng
Hi-Tech Development Zone., Suzhou, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

Documented By : Alice Mi
Reviewed By : Jack Zhang
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Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	WCDMA Digital Mobile Phone
Model No.	HUAWEI Y320-U051
Hardware Version	DSLSDTV-V1.0
Software Version	Y321-U051V100R001C00B08
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GPS	
GPS Function	Yes
2G	
Support Band	GSM850/PCS1900
GPRS Class	Class 12
Uplink	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Downlink	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GPRS; 8PSK for EDGE
Antenna Gain	GSM 850: -0.5dBi PCS1900: 1.0dBi
3G	
Support Band	WCDMA Band II/WCDMA Band V
Uplink	WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz
Downlink	WCDMA Band II: 1930~1990MHz WCDMA Band V: 869~894MHz
Release Version	Rel-7
Type of modulation	QPSK, 16QAM for Downlink QPSK for Uplink
Antenna Gain	WCDMA Band II: -0.5dBi WCDMA Band V: 0.5dBi
Wi-Fi	
Wi-Fi Frequency	802.11b/g/n(20MHz): 2412 ~ 2462 MHz 802.11n(40MHz): 2422 ~ 2452 MHz

Type of modulation	802.11b: DSSS; 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11n: up to 135 Mbps
Peak Antenna Gain	0dBi
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	3.0+HS
Type of modulation	GFSK, Pi/4 DQPSK, 8DPSK
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	0dBi
Components	
Battery #1	Brand Name: HUAWEI M/N: HB4W1 Rated Voltage and Capacitance: 3.7V/1700mAh S/N: GAGD519Z18001527
Battery #2	Brand Name: HUAWEI M/N: HB4W1 Rated Voltage and Capacitance: 3.7V/1700mAh S/N: BAAD504L18015678
Battery #3	Brand Name: HUAWEI M/N: HB4W1 Rated Voltage and Capacitance: 3.7V/1700mAh S/N: CABD409C18015502
Adapter #1	Brand Name: HUAWEI M/N: HW-050055U1W Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 550mA S/N: HKAD50574030
Adapter #2	Brand Name: HUAWEI M/N: HW-050055U1W Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 550mA S/N: BYAD31910787

For 2.4GHz Band

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n (20MHz)
Mode 4: Transmit by 802.11n (40MHz)

Note:

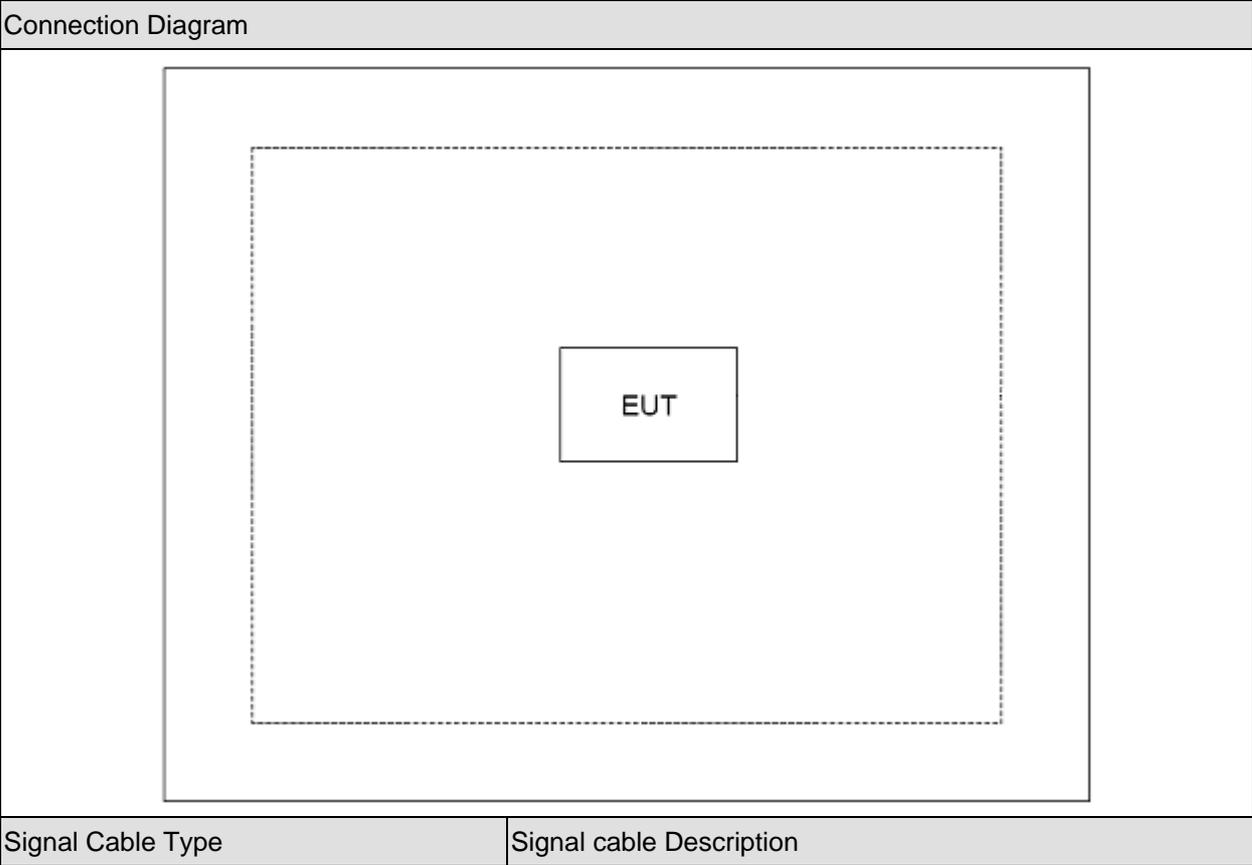
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 137S048R-IT-US-P01V01.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	N/A	N/A	N/A	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Run the RF test software, and set the test mode and channel, then start continue transmit.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
 Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2012 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2012 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

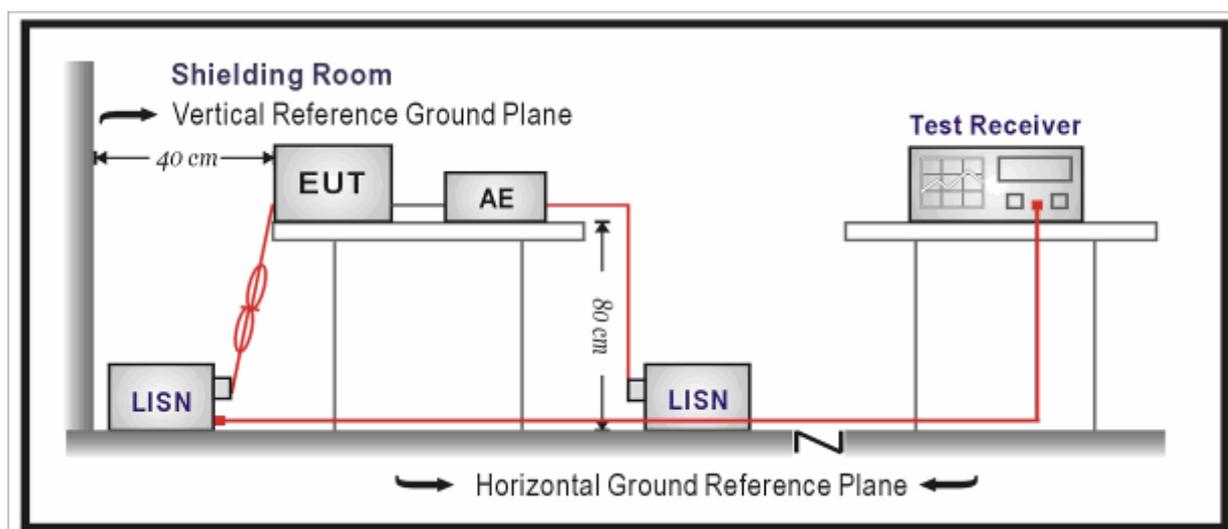
3.1. Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2014.03.30
Two-Line V-Network	R&S	ENV216	100043	2014.03.30
Two-Line V-Network	R&S	ENV216	100044	2013.09.17
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2014.03.01
50ohm Termination	SHX	TF2	07081401	2013.09.17
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2014.01.10

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

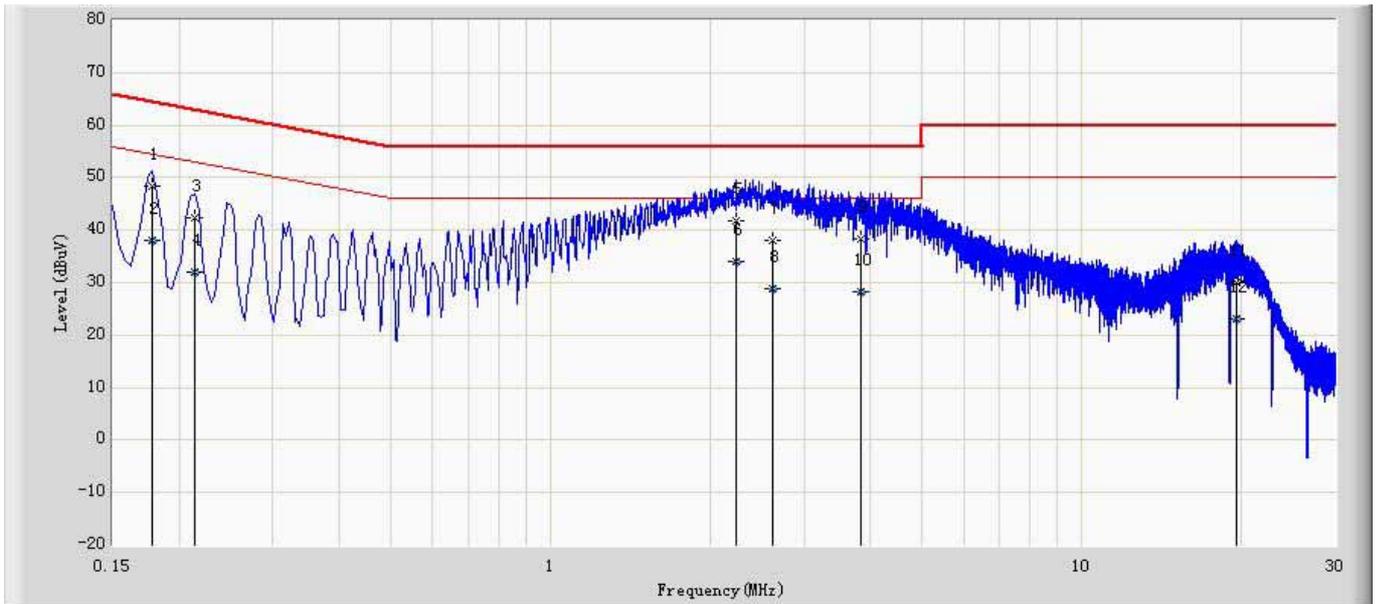
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

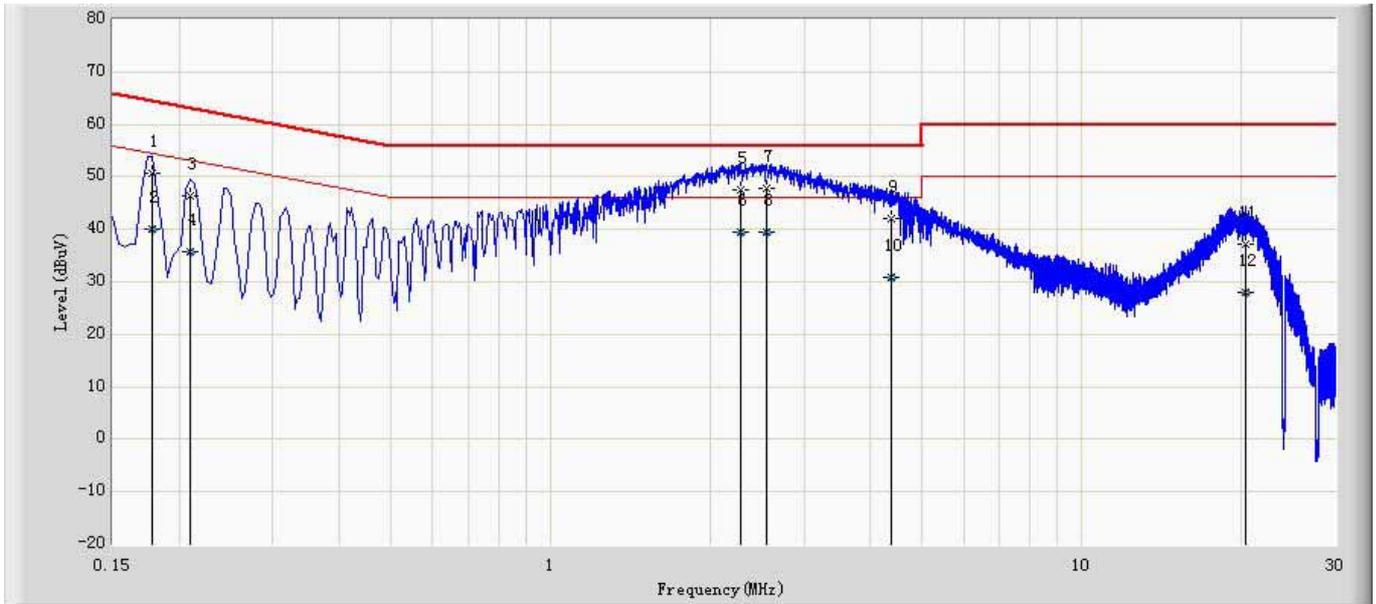
3.6. Test Result

Engineer: Cloud	
Site: TR1	Time: 2013/07/23 - 15:24
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: WCDMA Digital Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.178	48.522	38.699	-16.056	64.578	9.824	QP
2		0.178	37.989	28.166	-16.589	54.578	9.824	AV
3		0.214	42.251	32.440	-20.798	63.049	9.810	QP
4		0.214	31.956	22.145	-21.093	53.049	9.810	AV
5		2.242	41.842	32.044	-14.158	56.000	9.798	QP
6	*	2.242	34.015	24.217	-11.985	46.000	9.798	AV
7		2.622	38.144	28.317	-17.856	56.000	9.827	QP
8		2.622	28.872	19.046	-17.128	46.000	9.827	AV
9		3.846	38.400	28.565	-17.600	56.000	9.834	QP
10		3.846	28.359	18.525	-17.641	46.000	9.834	AV
11		19.610	29.953	19.612	-30.047	60.000	10.341	QP
12		19.610	23.082	12.741	-26.918	50.000	10.341	AV

Engineer: Cloud	
Site: TR1	Time: 2013/07/23 - 11:57
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: WCDMA Digital Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.178	50.681	40.760	-13.897	64.578	9.921	QP
2		0.178	39.929	30.008	-14.650	54.578	9.921	AV
3		0.210	46.319	36.457	-16.886	63.205	9.862	QP
4		0.210	35.709	25.847	-17.496	53.205	9.862	AV
5		2.282	47.545	37.581	-8.455	56.000	9.964	QP
6		2.282	39.506	29.542	-6.494	46.000	9.964	AV
7		2.554	47.751	37.761	-8.249	56.000	9.990	QP
8	*	2.554	39.529	29.539	-6.471	46.000	9.990	AV
9		4.390	42.179	32.127	-13.821	56.000	10.051	QP
10		4.390	30.786	20.734	-15.214	46.000	10.051	AV
11		20.374	37.207	27.006	-22.793	60.000	10.200	QP
12		20.374	28.112	17.912	-21.888	50.000	10.200	AV

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2014.04.30
Loop Antenna	R&S	HFH2-Z2	833799/003	2013.11.17
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2013.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2014.03.01
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2014.01.09

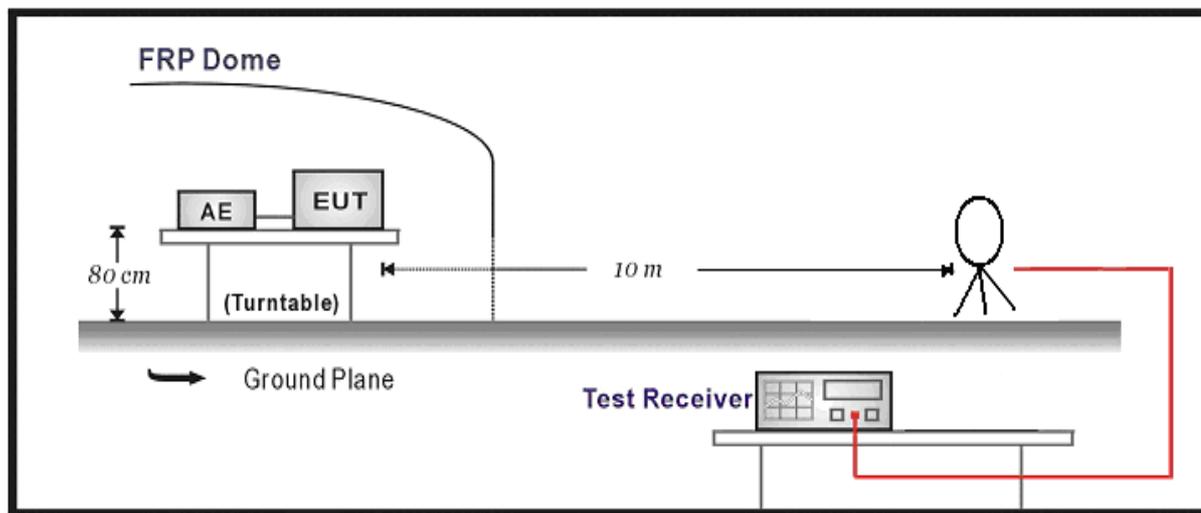
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2014.03.30
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.03
Preamplifier	Quietek	AP-040G	CHM-0906001	2014.05.03
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014.06.08
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2013.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2014.03.01
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2014.01.11

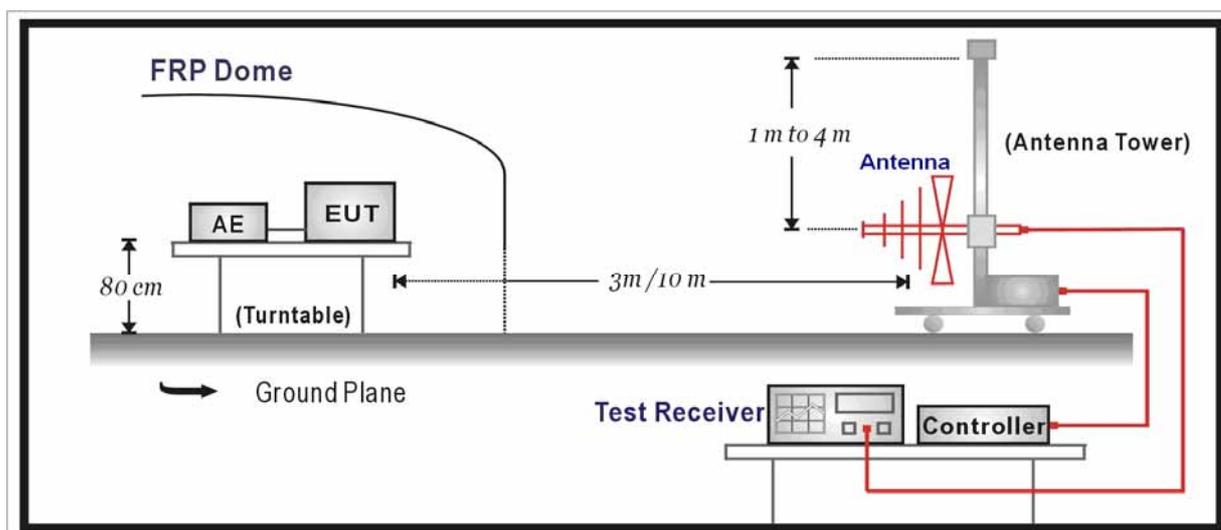
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

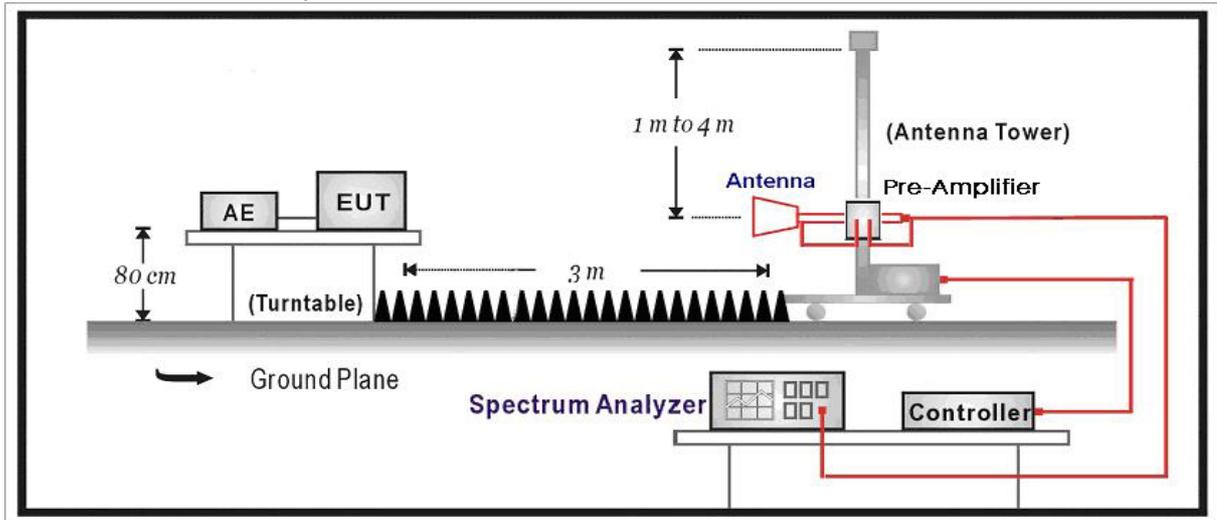
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the

maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

below 1G is defined as ± 3.8 dB

4.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

Mode1: Transmit at 802.11b

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	45.3	-8.3	37.0	54(note3)	-17.1	PK
	V	4824.0	45.4	-8.4	37.0	54(note3)	-17.0	PK
	H	7236.0	41.1	-3.4	37.7	54(note3)	-16.3	PK
	V	7236.0	41.1	-3.4	37.7	54(note3)	-16.3	PK
	H	9648.0	37.9	2.6	40.5	54(note3)	-13.5	PK
	V	9648.0	36.8	2.6	39.4	54(note3)	-14.6	PK
6	H	4874.0	43.9	-8.3	35.6	54(note3)	-18.4	PK
	V	4874.0	43.8	-8.3	35.5	54(note3)	-18.5	PK
	H	7311.0	41.1	-3.3	37.8	54(note3)	-16.2	PK
	V	7311.0	41.1	-3.3	37.8	54(note3)	-16.2	PK
	H	9748.0	36.0	2.7	38.7	54(note3)	-15.3	PK
	V	9748.0	35.8	2.8	38.6	54(note3)	-15.4	PK
11	H	4924.0	45.0	-8.4	36.6	54(note3)	-17.4	PK
	V	4924.0	44.5	-8.3	36.2	54(note3)	-17.8	PK
	H	7386.0	40.6	-3.0	37.6	54(note3)	-16.4	PK
	V	7386.0	40.1	-3.0	37.1	54(note3)	-16.9	PK
	H	9848.0	36.5	3.1	39.6	54(note3)	-14.4	PK
	V	9848.0	35.3	3.2	38.5	54(note3)	-15.5	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode2: Transmit at 802.11g

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	44.2	-8.3	35.9	54(note3)	-18.1	PK
	V	4824.0	45.2	-8.4	36.8	54(note3)	-17.2	PK
	H	7236.0	40.6	-3.4	37.2	54(note3)	-16.8	PK
	V	7236.0	41.4	-3.4	38.0	54(note3)	-16.0	PK
	H	9648.0	36.5	2.6	39.1	54(note3)	-14.9	PK
	V	9648.0	36.7	2.6	39.3	54(note3)	-14.7	PK
6	H	4874.0	44.3	-8.3	36.0	54(note3)	-18.0	PK
	V	4874.0	43.6	-8.3	35.3	54(note3)	-18.7	PK
	H	7311.0	41.5	-3.3	38.2	54(note3)	-15.8	PK
	V	7311.0	41.7	-3.3	38.4	54(note3)	-15.6	PK
	H	9748.0	36.7	2.7	39.4	54(note3)	-14.6	PK
	V	9648.0	36.4	2.6	39.0	54(note3)	-15.0	PK
11	H	4924.0	44.2	-8.4	35.8	54(note3)	-18.2	PK
	V	4924.0	45.0	-8.3	36.7	54(note3)	-17.3	PK
	H	7386.0	40.4	-3.0	37.4	54(note3)	-16.6	PK
	V	7386.0	40.1	-3.0	37.1	54(note3)	-16.9	PK
	H	9848.0	36.0	3.1	39.1	54(note3)	-14.9	PK
	V	9848.0	35.6	3.2	38.7	54(note3)	-15.3	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode3: Transmit at 802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	44.5	-8.3	36.2	54(note3)	-17.8	PK
	V	4824.0	44.4	-8.4	35.8	54(note3)	-18.2	PK
	H	7236.0	40.2	-3.4	36.8	54(note3)	-17.2	PK
	V	7236.0	40.8	-3.4	37.4	54(note3)	-16.6	PK
	H	9648.0	36.5	2.6	39.1	54(note3)	-14.9	PK
	V	9648.0	36.3	2.6	38.9	54(note3)	-15.1	PK
6	H	4874.0	44.5	-8.3	36.2	54(note3)	-17.8	PK
	V	4874.0	45.0	-8.3	36.7	54(note3)	-17.3	PK
	H	7311.0	41.1	-3.3	37.8	54(note3)	-16.2	PK
	V	7311.0	41.8	-3.3	38.5	54(note3)	-15.5	PK
	H	9748.0	35.9	2.7	38.6	54(note3)	-15.4	PK
	V	9748.0	36.4	2.8	39.2	54(note3)	-14.8	PK
11	H	4924.0	45.7	-8.4	37.3	54(note3)	-16.7	PK
	V	4924.0	44.4	-8.3	36.1	54(note3)	-17.9	PK
	H	7386.0	40.0	-3.0	37.0	54(note3)	-17.0	PK
	V	7386.0	40.7	-3.0	37.7	54(note3)	-16.3	PK
	H	9848.0	35.7	3.1	38.8	54(note3)	-15.2	PK
	V	9848.0	35.5	3.2	38.7	54(note3)	-15.3	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode4: Transmit at 802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	4844.0	44.3	-8.3	36.0	54(note3)	-18.0	PK
	V	4844.0	44.5	-8.4	36.1	54(note3)	-17.9	PK
	H	7266.0	39.2	-3.3	35.9	54(note3)	-18.1	PK
	V	7266.0	40.5	-3.3	37.2	54(note3)	-16.8	PK
	H	9688.0	36.3	2.7	39.0	54(note3)	-15.0	PK
	V	9688.0	36.4	2.8	39.2	54(note3)	-14.8	PK
6	H	4874.0	44.2	-8.3	35.9	54(note3)	-18.1	PK
	V	4874.0	44.6	-8.3	36.3	54(note3)	-17.7	PK
	H	7311.0	40.6	-3.3	37.3	54(note3)	-16.7	PK
	V	7311.0	40.6	-3.3	37.4	54(note3)	-16.6	PK
	H	9748.0	36.2	2.7	38.9	54(note3)	-15.1	PK
	V	9748.0	36.2	2.8	39.0	54(note3)	-15.0	PK
9	H	4904.0	44.1	-8.3	35.8	54(note3)	-18.2	PK
	V	4904.0	44.5	-8.3	36.2	54(note3)	-17.8	PK
	H	7356.0	40.2	-3.1	37.1	54(note3)	-16.9	PK
	V	7356.0	40.0	-3.1	36.9	54(note3)	-17.1	PK
	H	9808.0	35.5	3.0	38.5	54(note3)	-15.5	PK
	V	9808.0	35.5	3.0	38.5	54(note3)	-15.5	PK

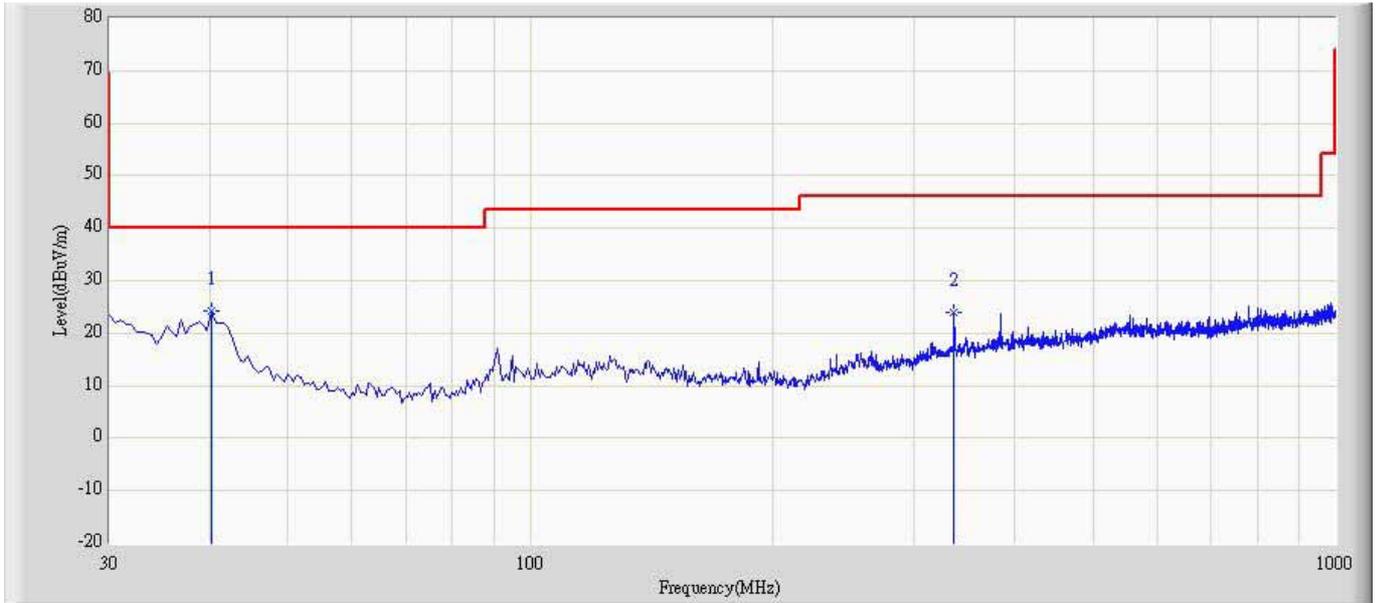
Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

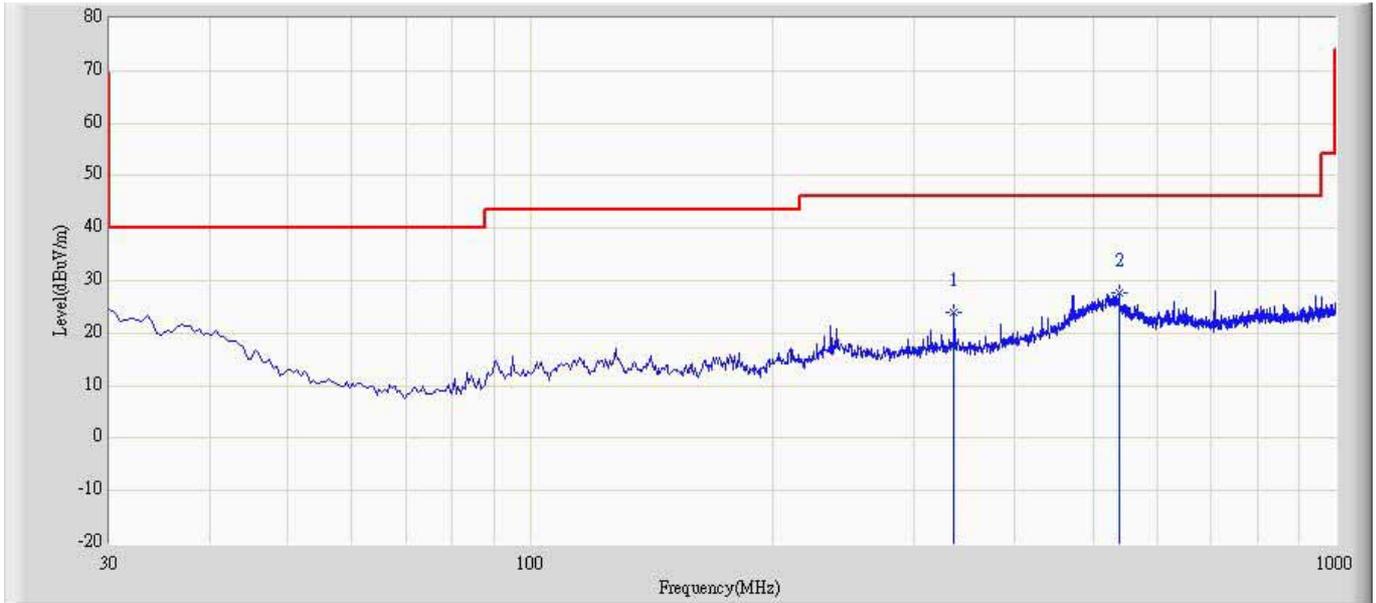
The worst case of Radiated Emission below 1GHz:

Engineer: Jack	
Site: AC2	Time: 2013/07/31 - 10:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_(30-2000MHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at channel 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	40.185	24.314	10.135	-15.686	40.000	14.179	QP
2		336.035	23.847	8.008	-22.153	46.000	15.839	QP

Engineer: Jack	
Site: AC2	Time: 2013/07/31 - 10:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_(30-2000MHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at channel 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		336.035	24.010	8.171	-21.990	46.000	15.839	QP
2	*	539.250	27.699	6.787	-18.301	46.000	20.912	QP

5. RF Antenna Conducted Spurious

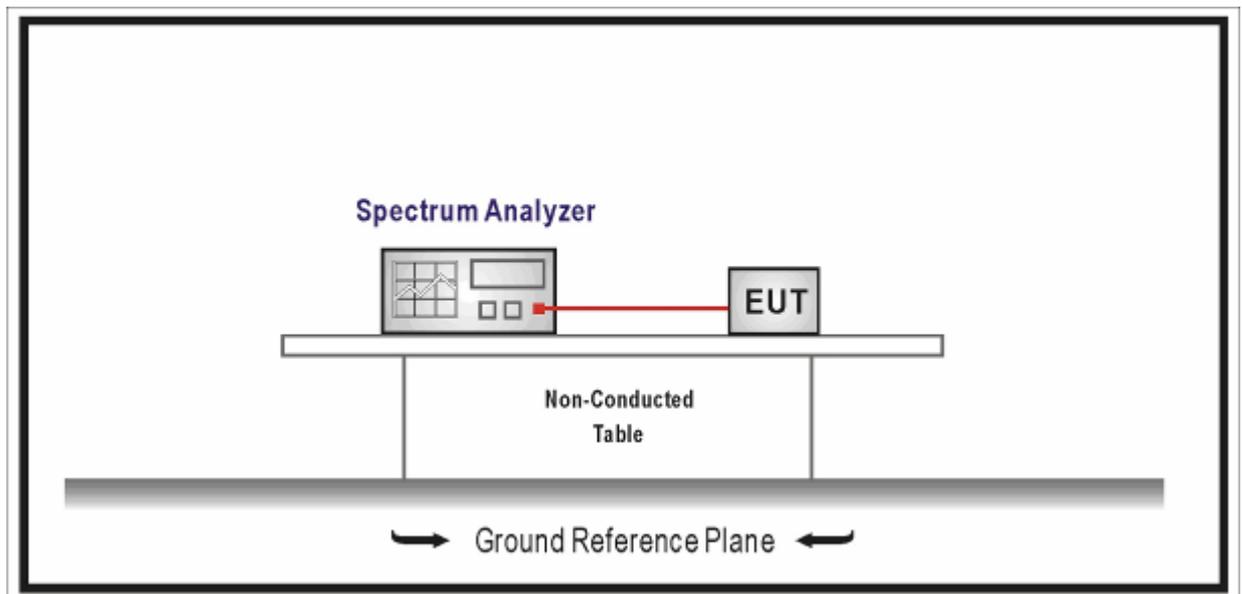
5.1. Test Equipment

RF Antenna Conducted Spurious / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

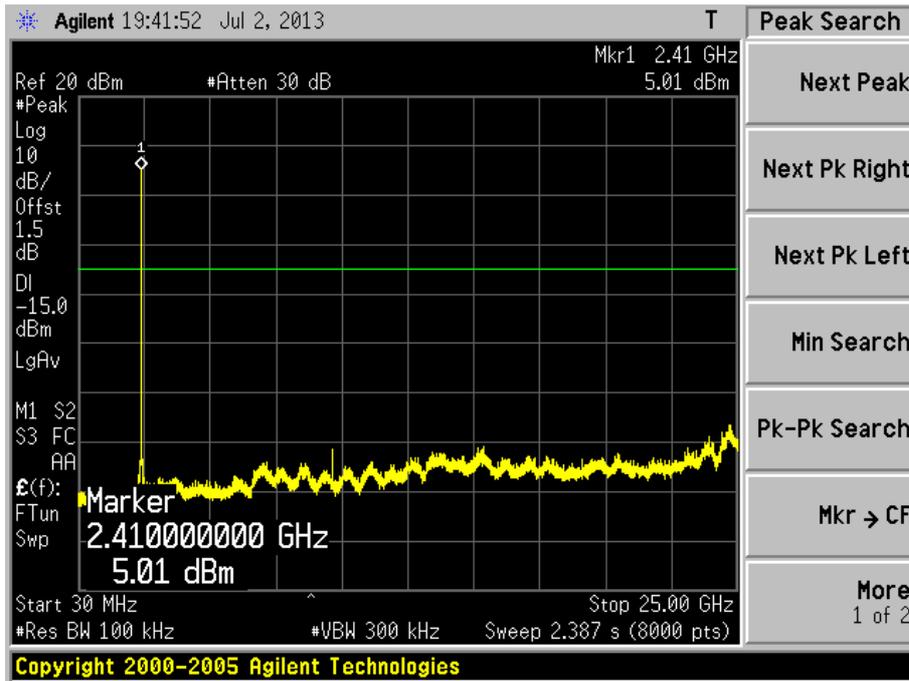
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

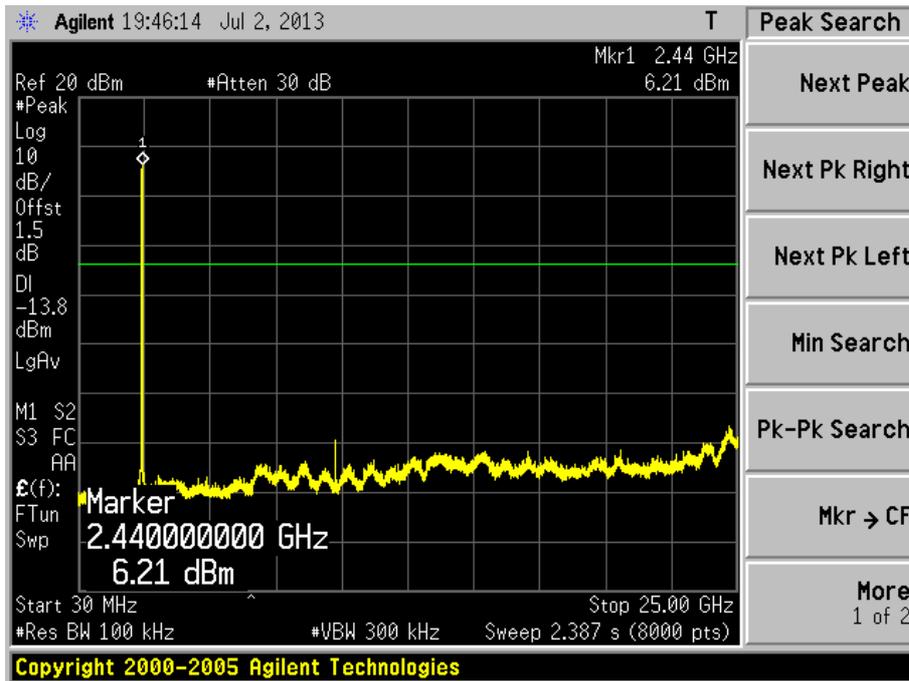
5.6. Test Result

Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b

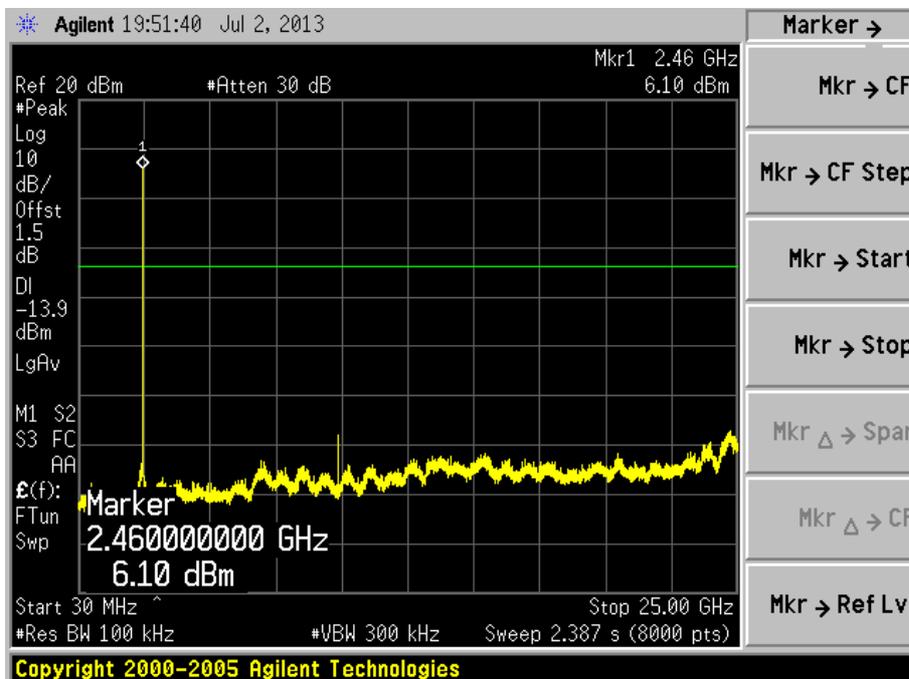
Channel 01 (2412MHz)



Channel 06 (2437MHz)

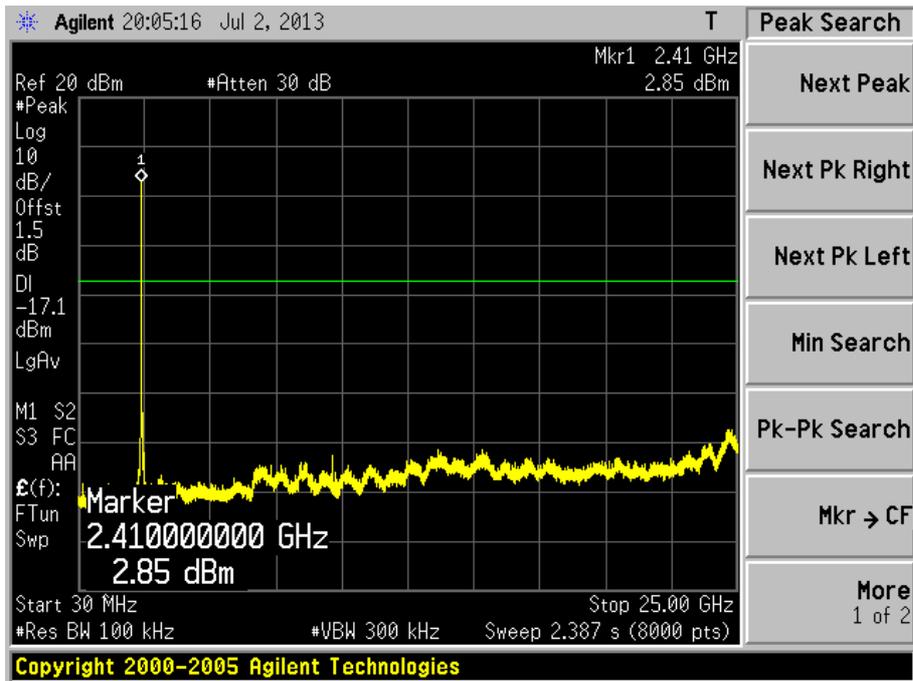


Channel 11 (2462MHz)

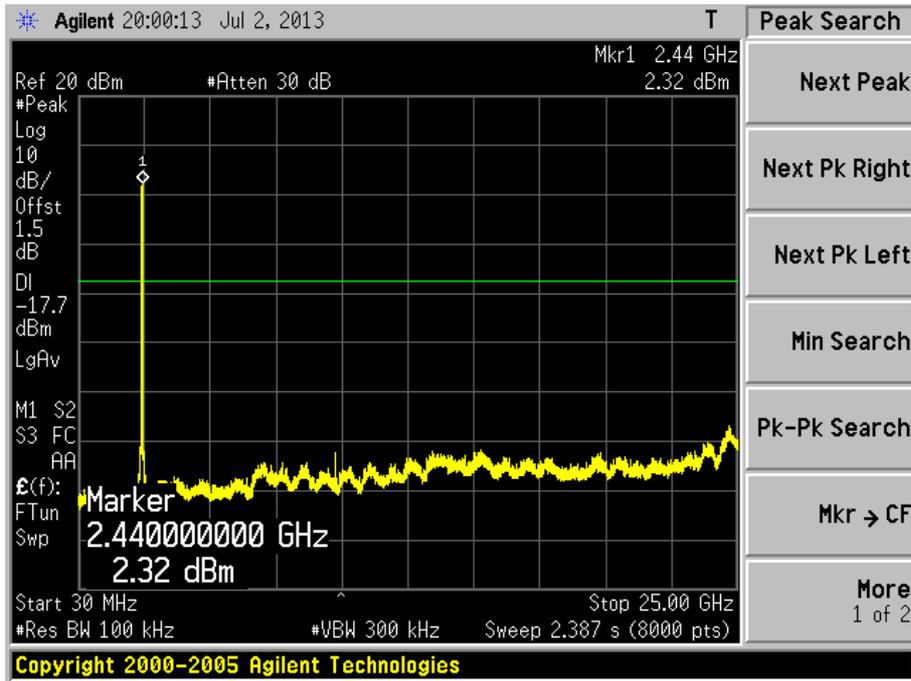


Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g

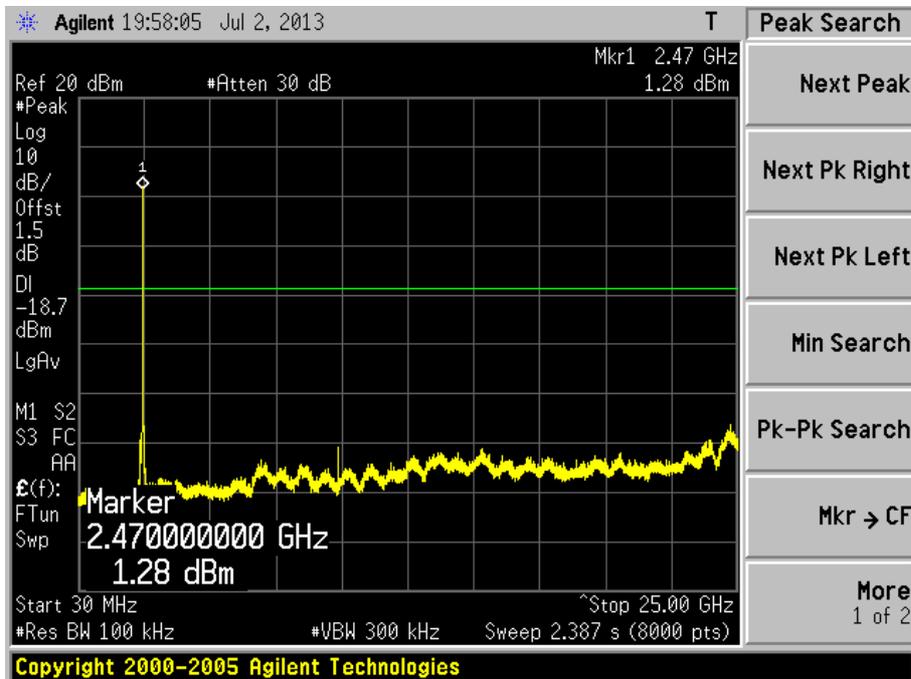
Channel 01 (2412MHz)



Channel 06 (2437MHz)

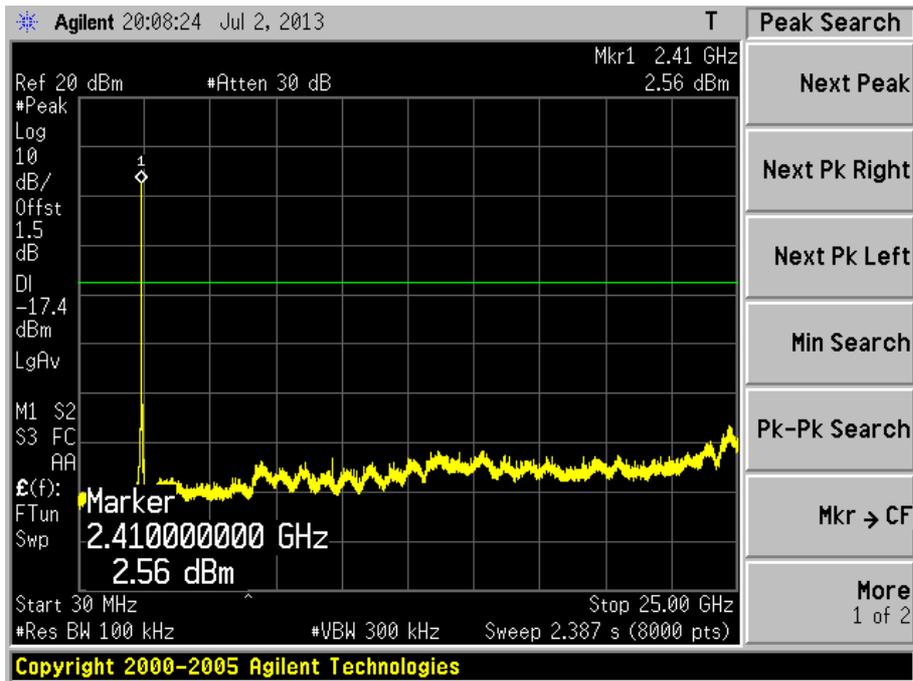


Channel 11 (2462MHz)

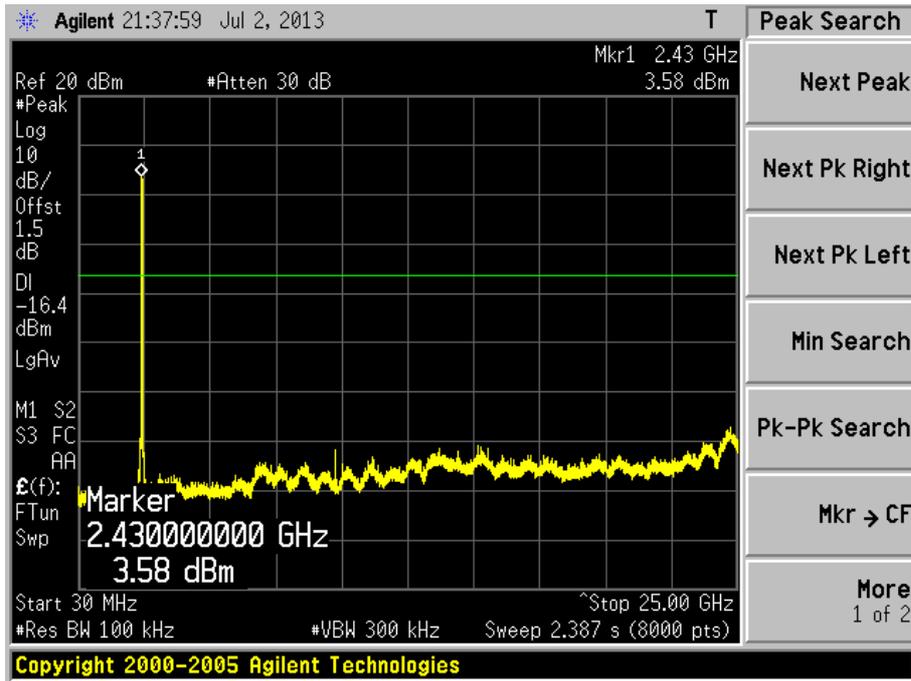


Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

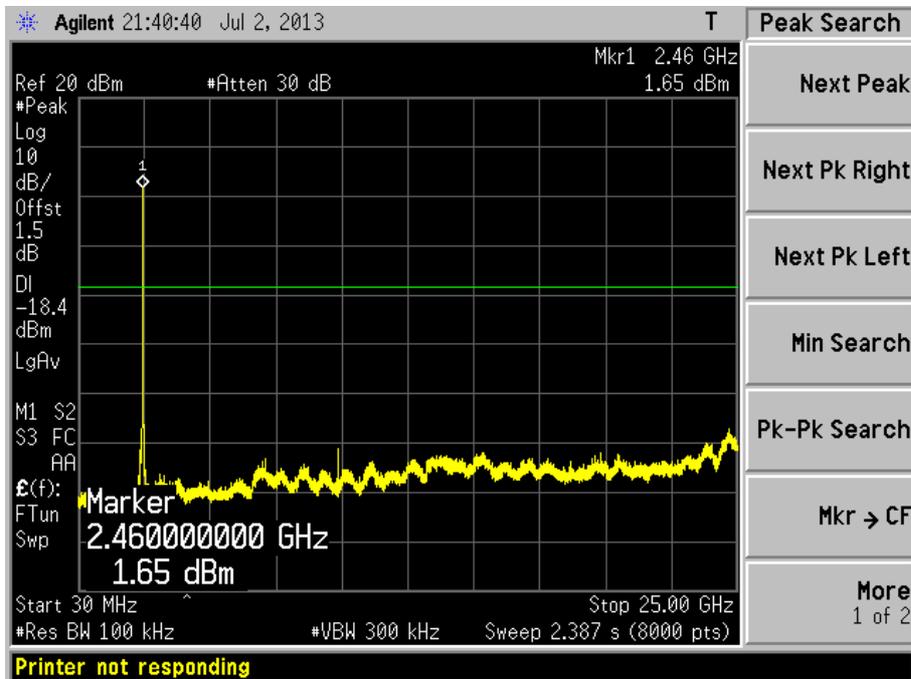
Channel 01 (2412MHz)



Channel 06 (2437MHz)

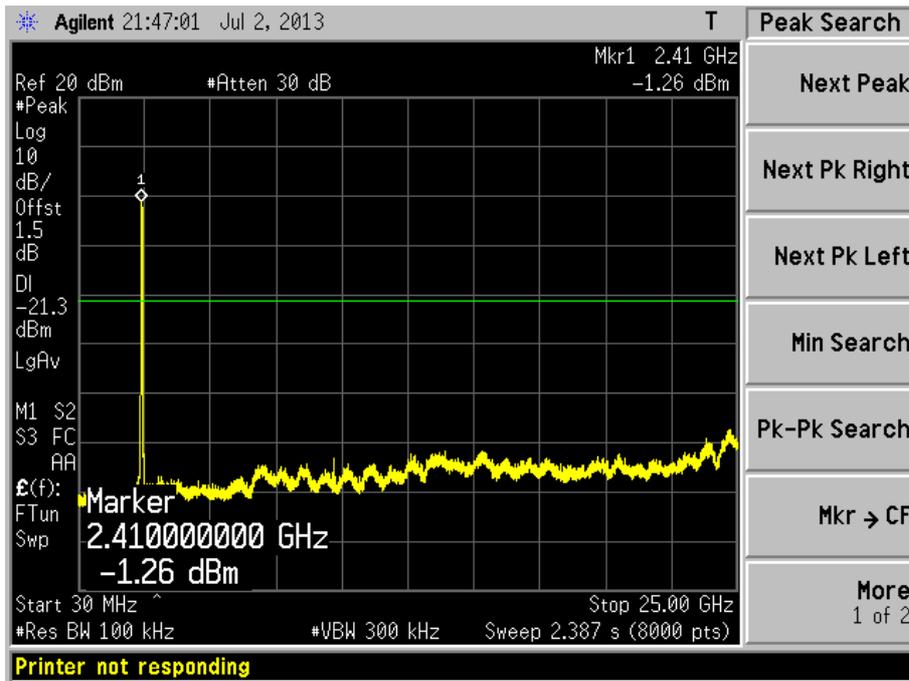


Channel 11 (2462MHz)

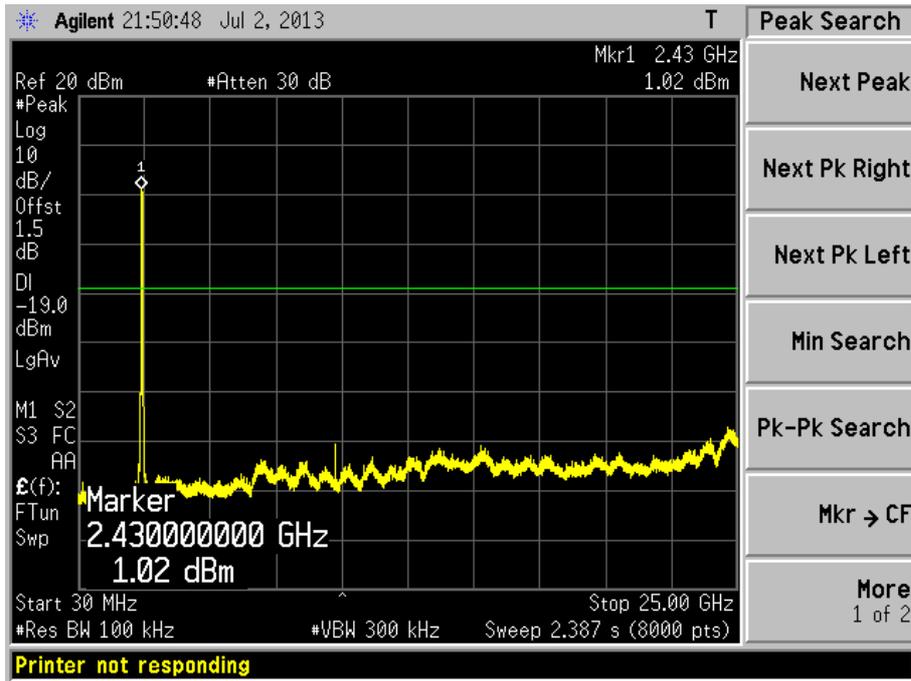


Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

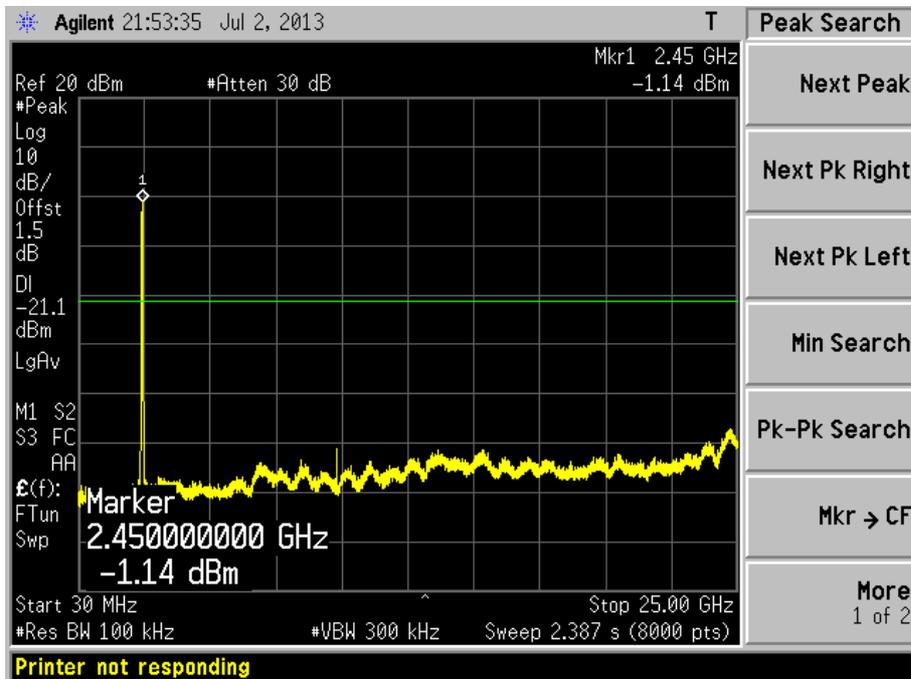
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 9 (2452MHz)



6. Radiated Emission Band Edge

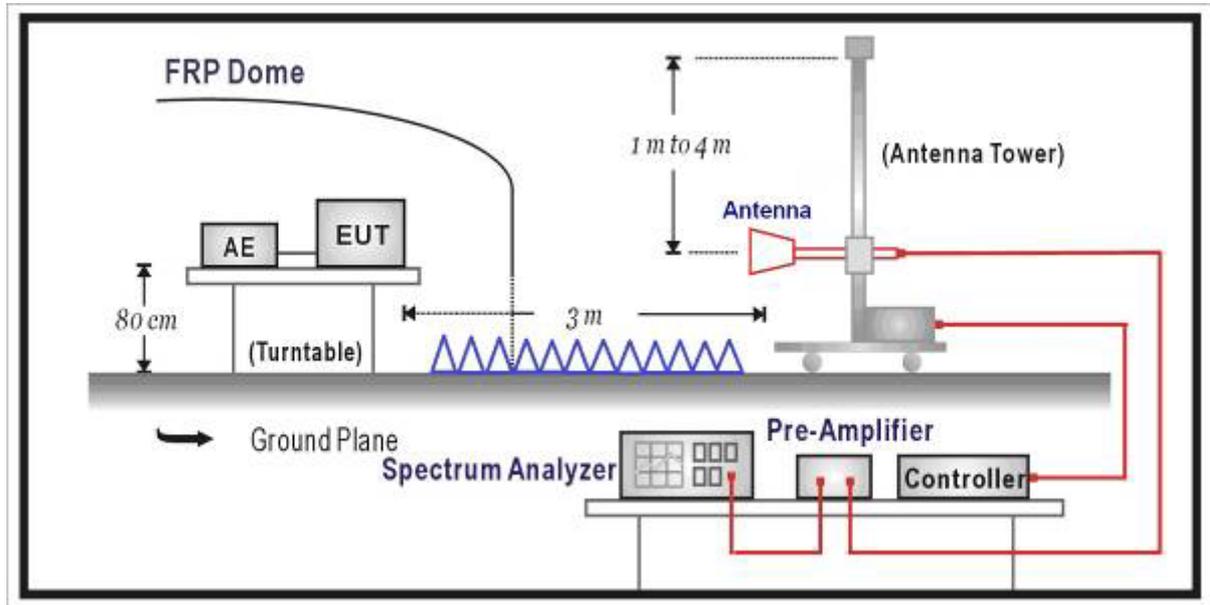
6.1. Test Equipment

Radiated Emission Band Edge / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2014.01.21
EMI Test Receiver	R&S	ESCI	100573	2014.01.21
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.03
Preamplifier	Quietek	AP-040G	CHM-0906001	2014.05.03
Bilog Type Antenna	Schaffner	CBL6112B	2932	2013.10.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014.06.08
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2014.03.01
Temperature/Humidity Meter	zhicheng	ZC1-2	AC5-TH	2014.01.10

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup



6.3. Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. Test Procedure

The EUT was setup according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

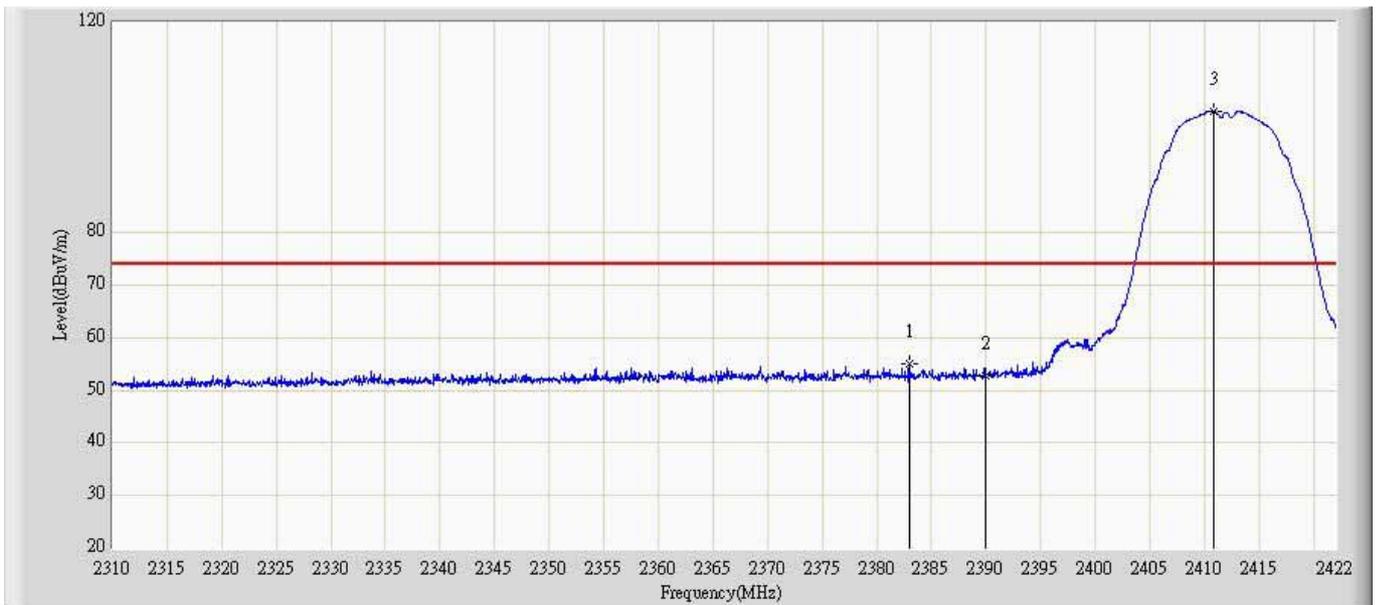
Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

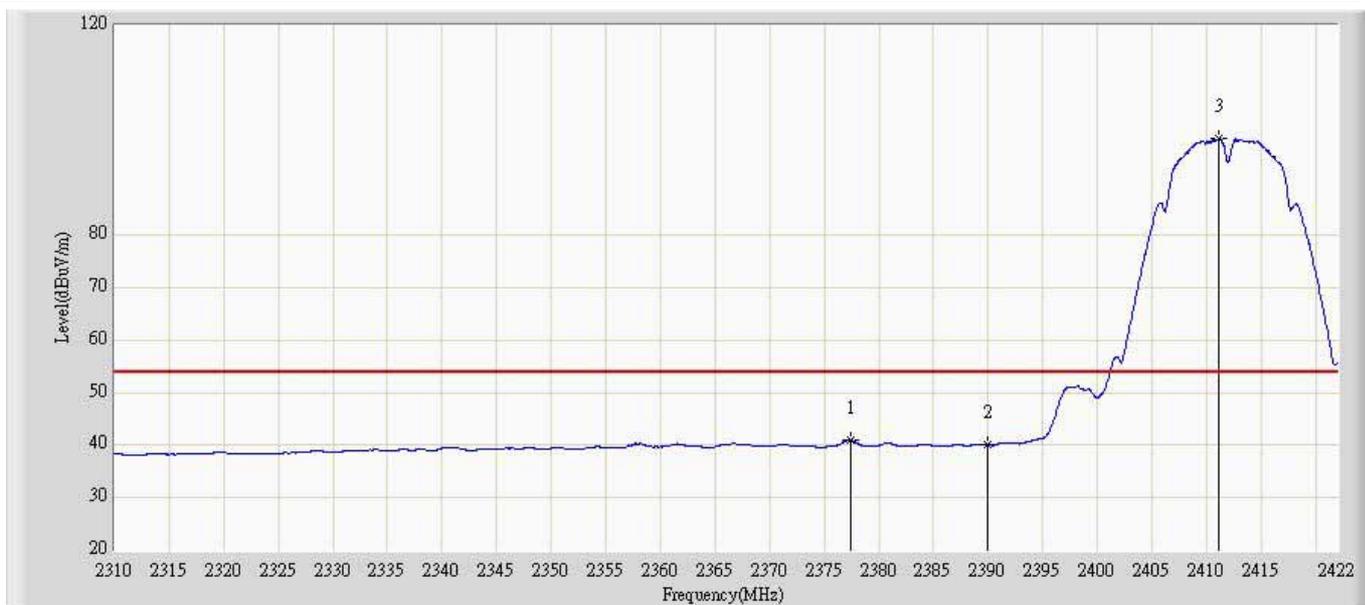
In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice will be followed.

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 16:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2412MHz by 802.11b	



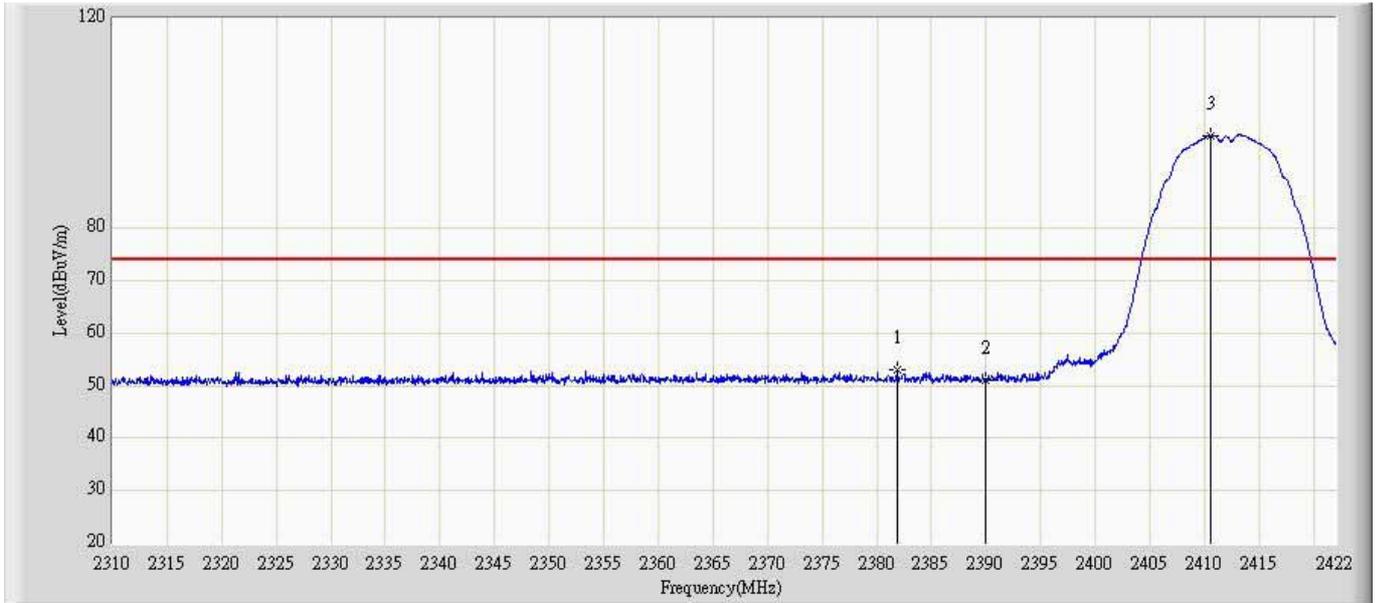
No	Flag	Marker	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2382.968	55.159	18.915	-18.841	74.000	36.244	PK
2			2390.000	52.681	16.380	-21.319	74.000	36.302	PK
3		*	2410.800	103.097	66.625	N/A	N/A	36.472	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 16:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2412MHz by 802.11b	



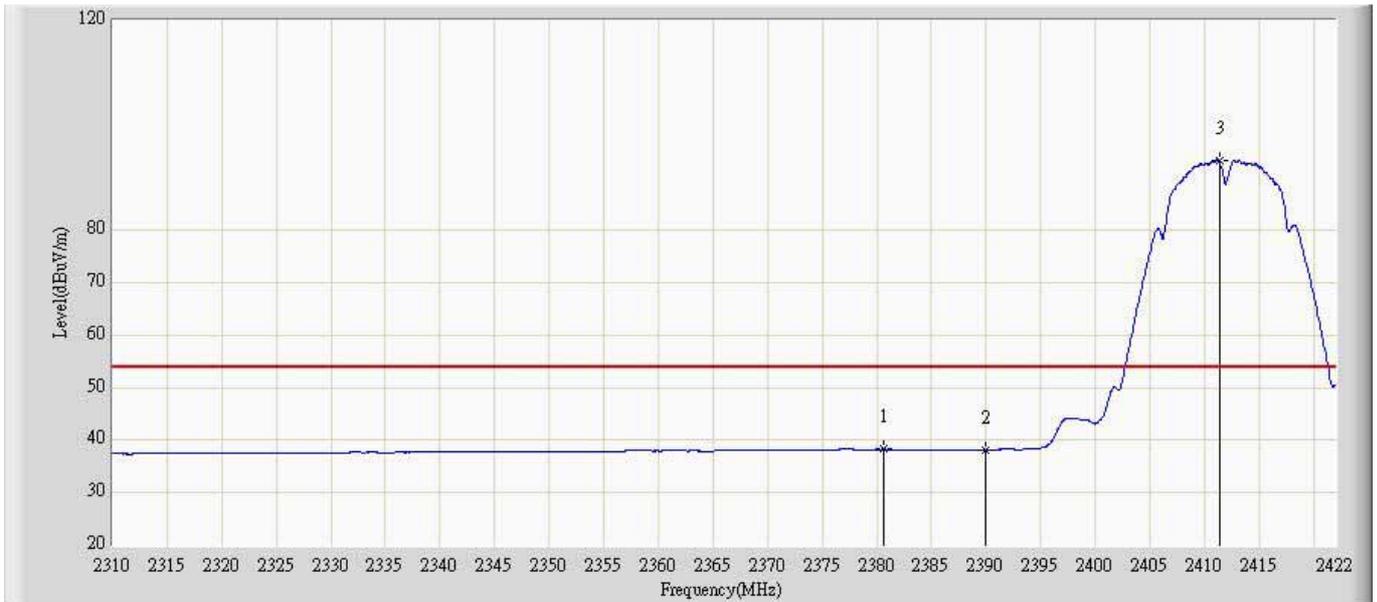
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2377.368	40.912	4.714	-13.088	54.000	36.198	AV
2			2390.000	40.055	3.754	-13.945	54.000	36.302	AV
3		*	2411.192	98.522	62.046	N/A	N/A	36.475	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 16:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2412MHz by 802.11b	



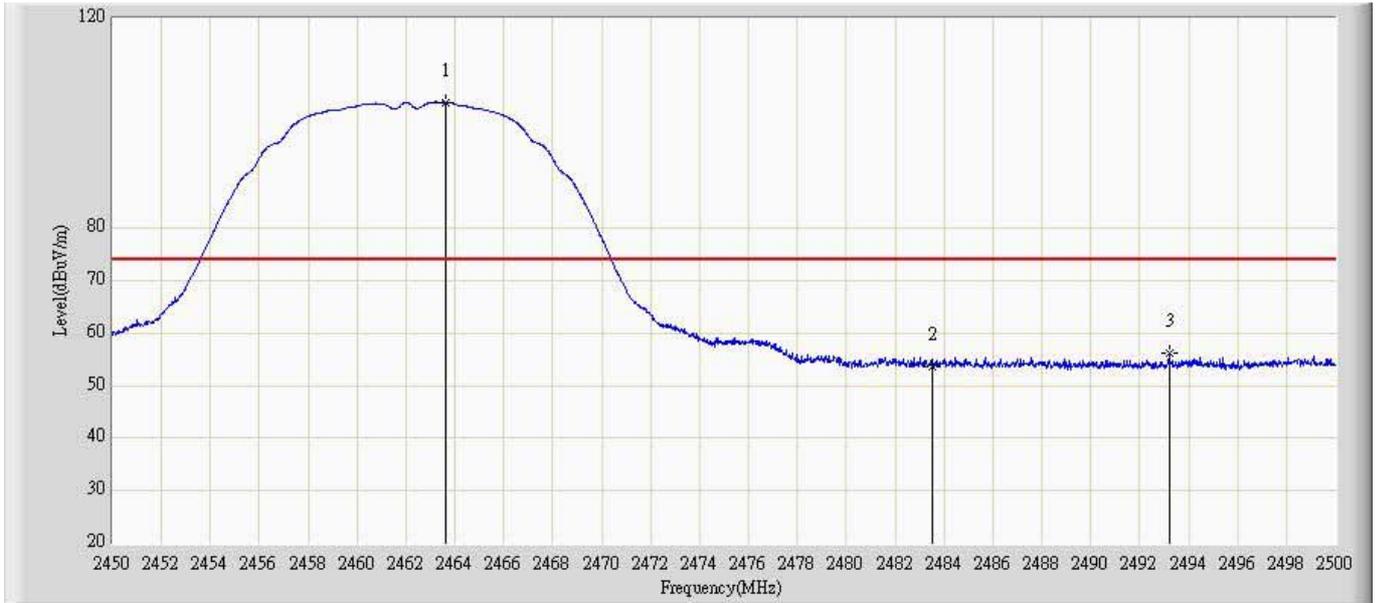
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2381.848	52.958	17.351	-21.042	74.000	35.607	PK
2			2390.000	51.137	15.496	-22.863	74.000	35.642	PK
3		*	2410.632	97.692	61.964	N/A	N/A	35.729	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 16:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2412MHz by 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2380.672	38.267	2.665	-15.733	54.000	35.602	AV
2			2390.000	38.122	2.481	-15.878	54.000	35.642	AV
3		*	2411.375	93.145	57.413	N/A	N/A	35.731	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 17:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2462MHz by 802.11b	



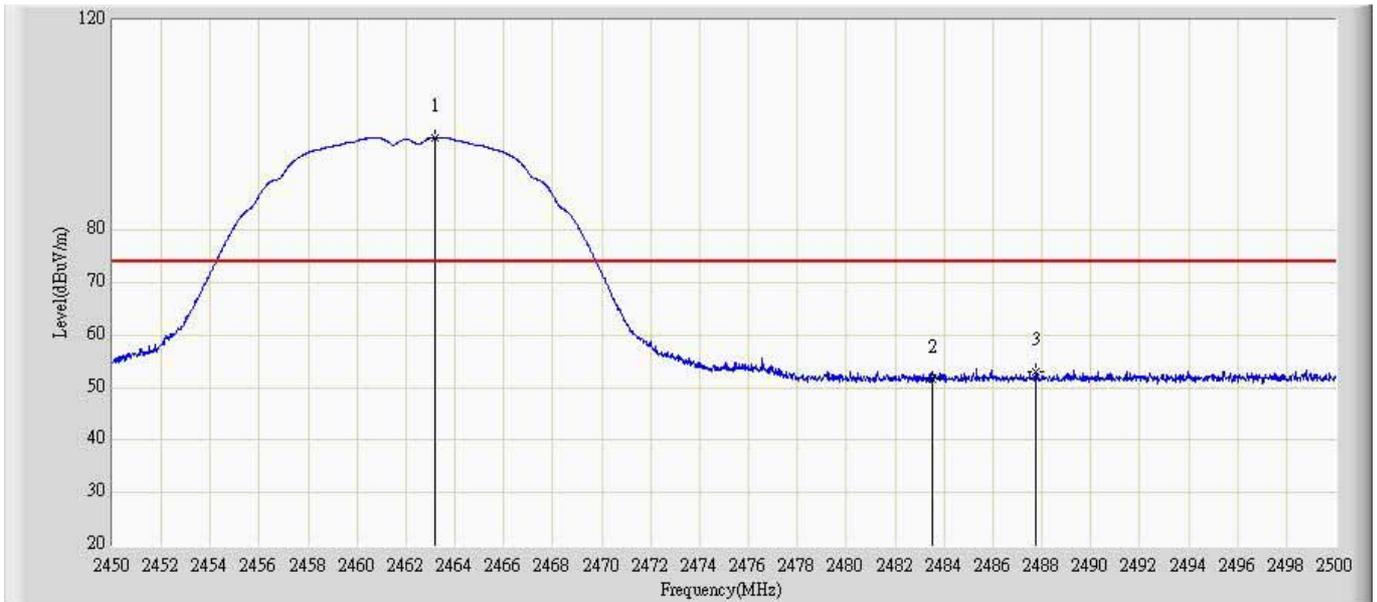
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.608	103.996	67.072	N/A	N/A	36.924	PK
2			2483.500	53.648	16.558	-20.352	74.000	37.089	PK
3			2493.200	56.114	18.939	-17.886	74.000	37.176	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 17:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2462MHz by 802.11b	



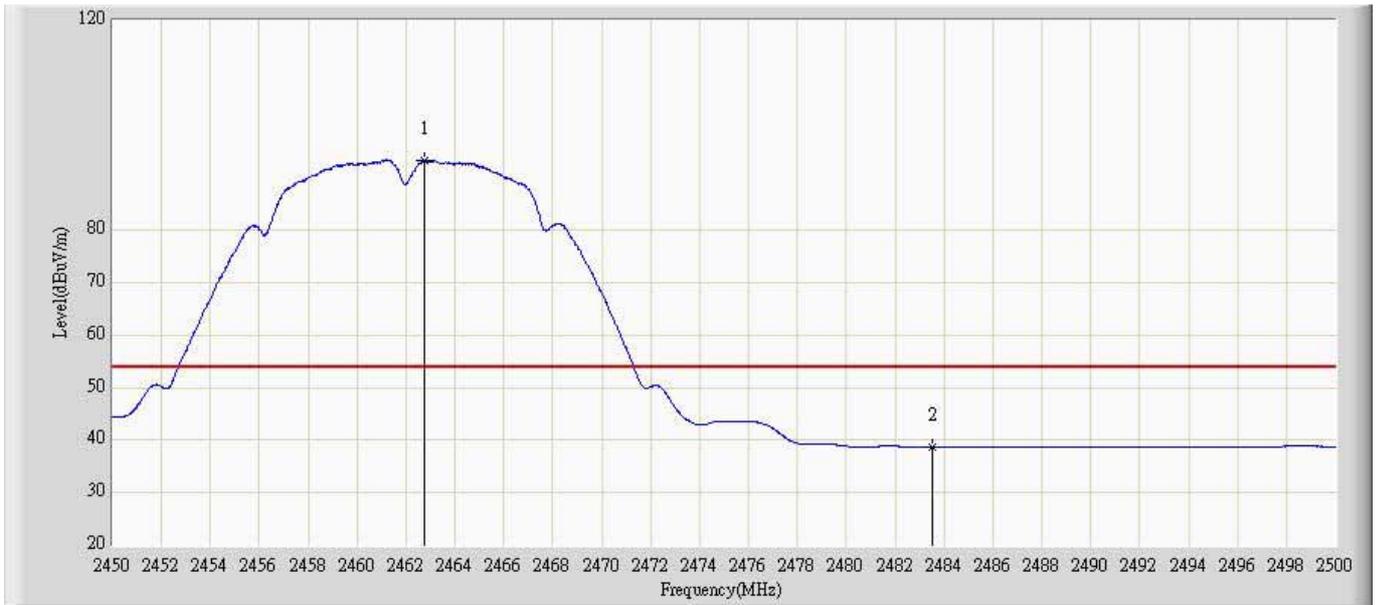
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.175	99.326	62.422	N/A	N/A	36.904	AV
2			2483.500	40.929	3.839	-13.071	54.000	37.089	AV
3			2498.575	41.777	4.583	-12.223	54.000	37.195	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 17:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2462MHz by 802.11b	



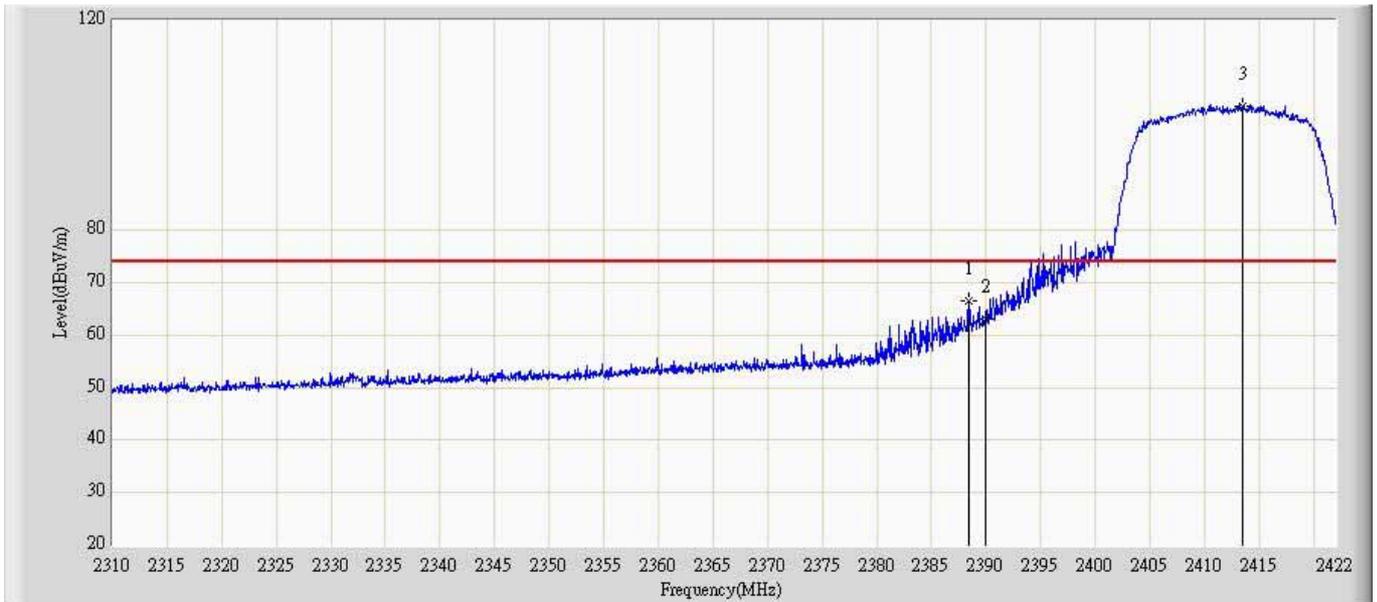
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.200	97.638	61.670	N/A	N/A	35.968	PK
2			2483.500	51.611	15.555	-22.389	74.000	36.055	PK
3			2487.725	53.085	17.009	-20.915	74.000	36.076	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/20 - 17:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode1: Transmit at Channel 2462MHz by 802.11b	



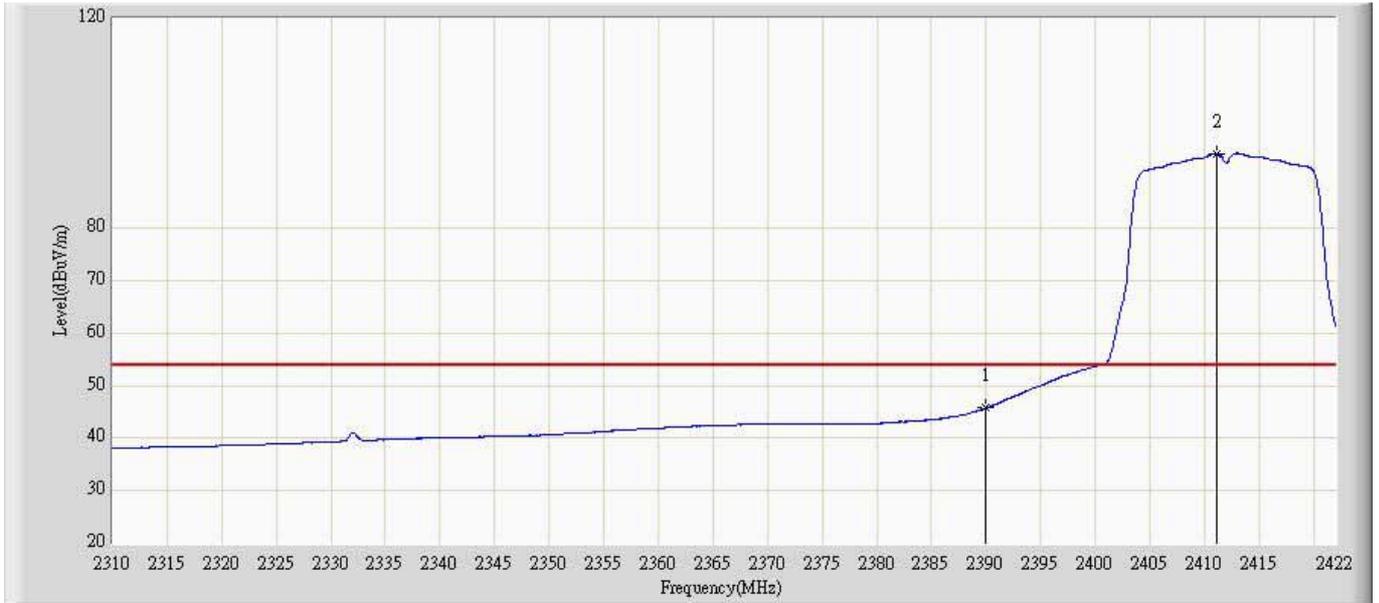
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.725	93.291	57.325	N/A	N/A	35.966	AV
2			2483.500	38.743	2.687	-15.257	54.000	36.055	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2412MHz by 802.11g	



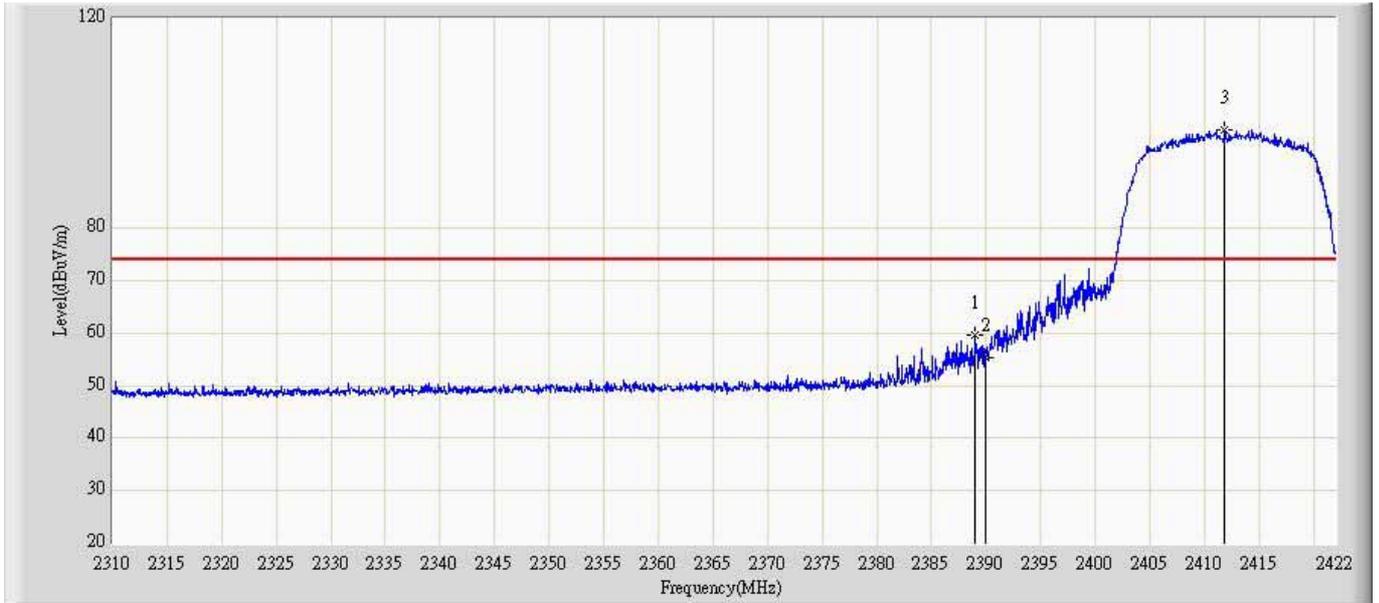
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.456	66.663	30.374	-7.337	74.000	36.289	PK
2			2390.000	63.214	26.913	-10.786	74.000	36.302	PK
3		*	2413.488	103.710	67.214	N/A	N/A	36.496	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2412MHz by 802.11g	



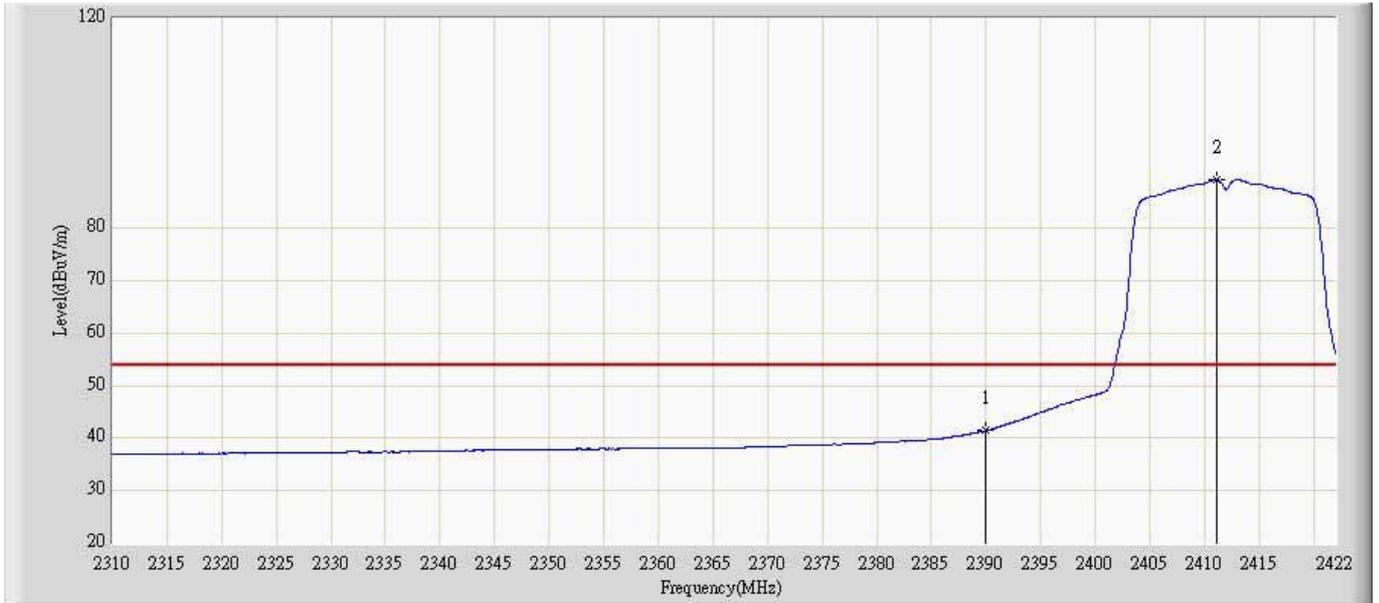
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	45.747	9.446	-8.253	54.000	36.302	AV
2		*	2411.136	94.132	57.657	N/A	N/A	36.475	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2412MHz by 802.11g	



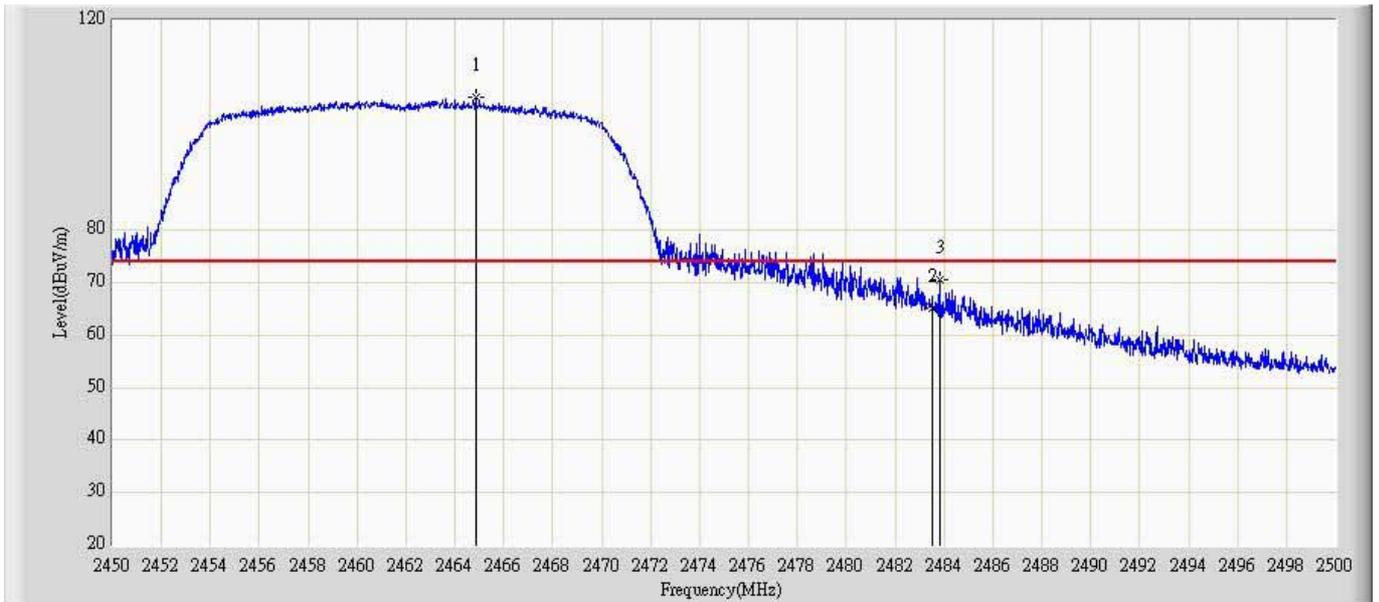
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.016	59.688	24.051	-14.312	74.000	35.637	PK
2			2390.000	55.458	19.817	-18.542	74.000	35.642	PK
3		*	2411.864	98.831	63.097	N/A	N/A	35.734	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2412MHz by 802.11g	



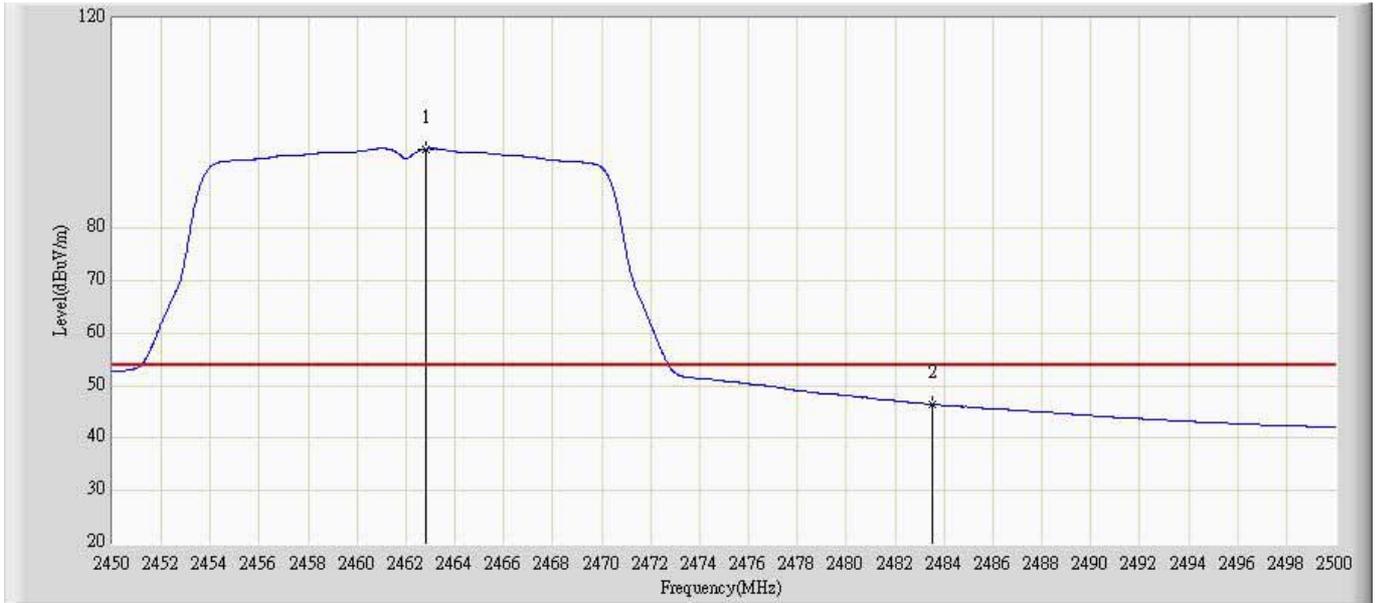
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	41.422	5.781	-12.578	54.000	35.642	AV
2		*	2411.136	89.188	53.457	N/A	N/A	35.730	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2462MHz by 802.11g	



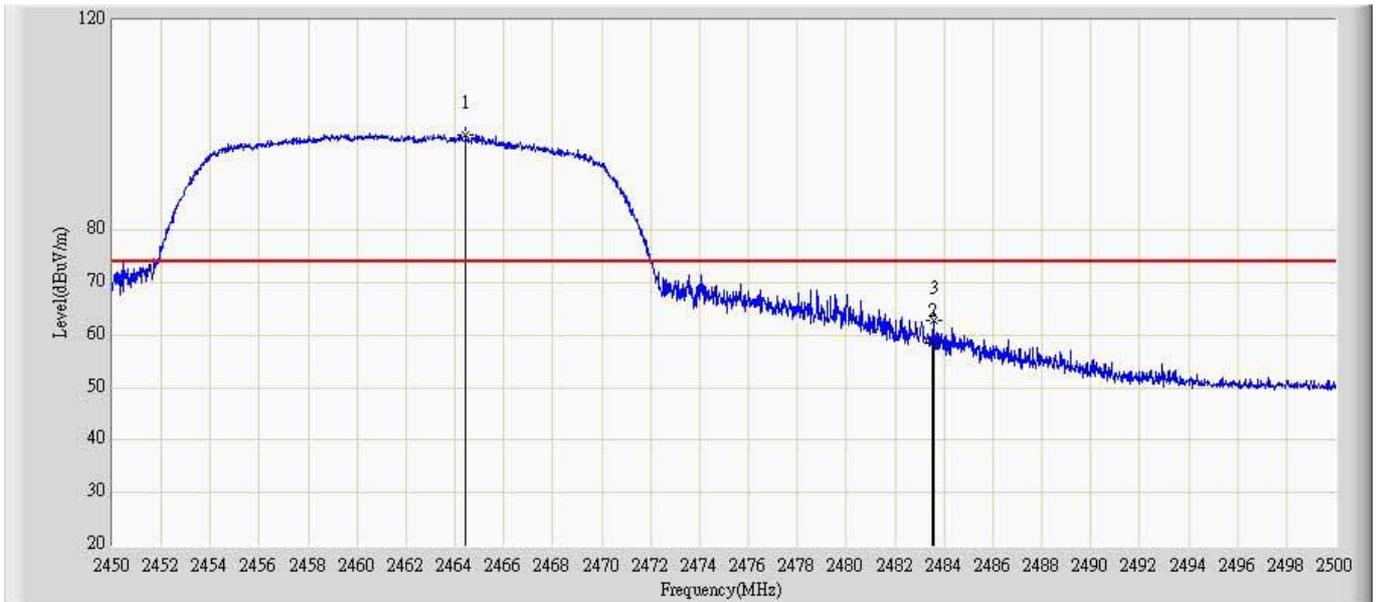
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.850	105.414	68.480	N/A	N/A	36.935	PK
2			2483.500	65.238	28.148	-8.762	74.000	37.089	PK
3			2483.825	70.490	33.397	-3.510	74.000	37.093	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2462MHz by 802.11g	



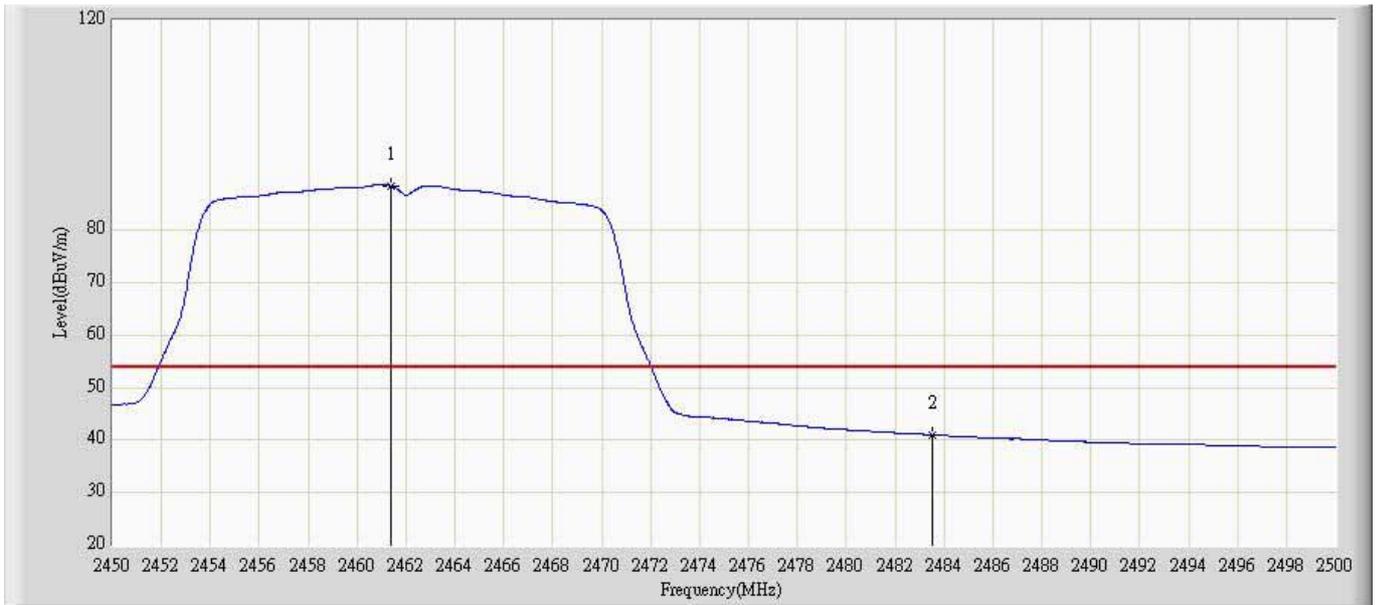
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.800	95.115	58.197	N/A	N/A	36.917	AV
2			2483.500	46.470	9.380	-7.530	54.000	37.089	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2462MHz by 802.11g	



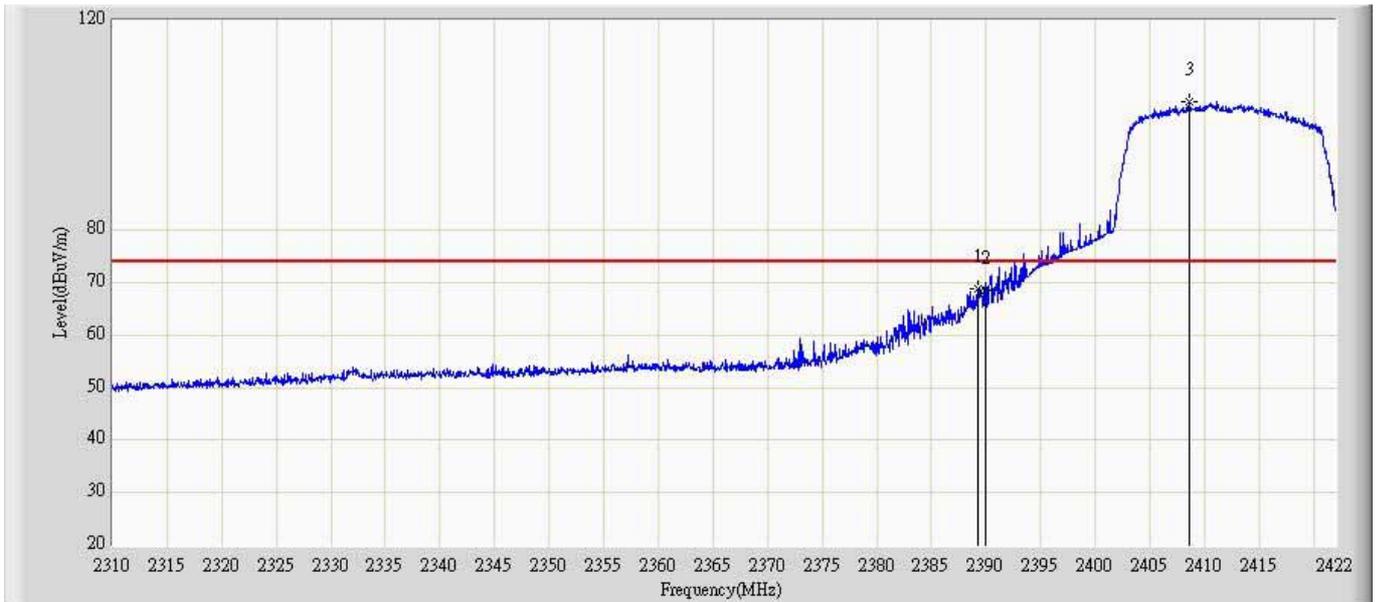
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.425	98.217	62.244	N/A	N/A	35.973	PK
2			2483.500	58.576	22.520	-15.424	74.000	36.055	PK
3			2483.575	62.778	26.722	-11.222	74.000	36.056	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode2: Transmit at Channel 2462MHz by 802.11g	



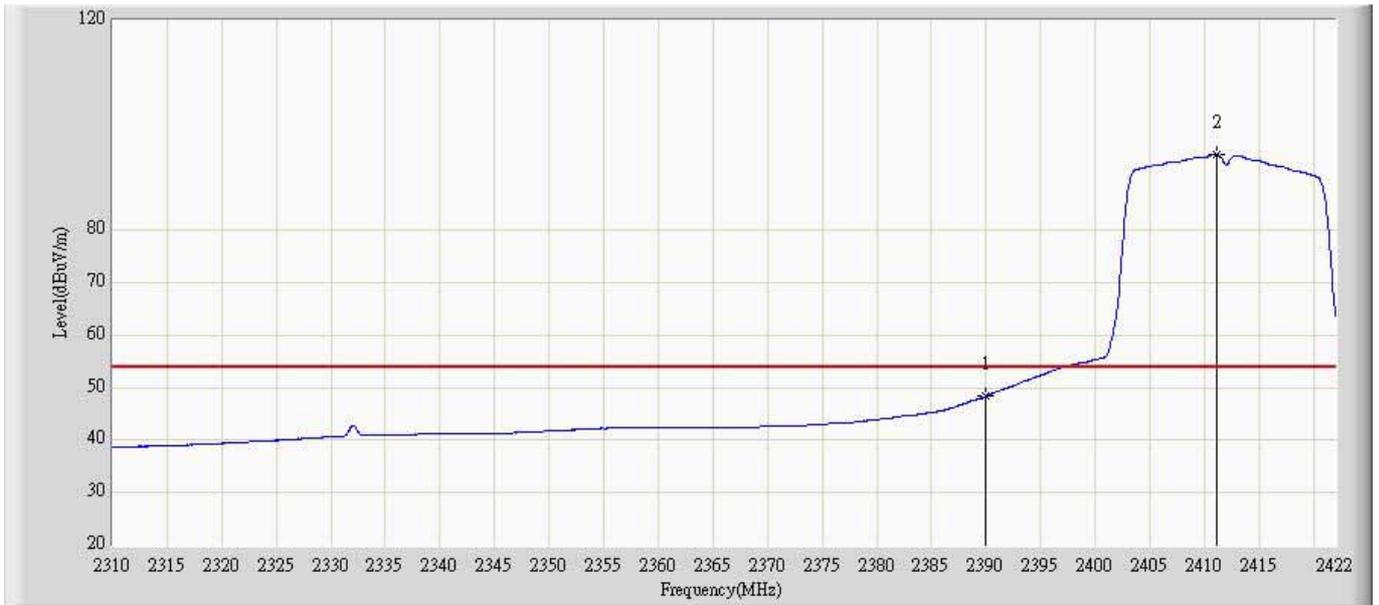
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.350	88.471	52.511	N/A	N/A	35.960	AV
2			2483.500	41.027	4.971	-12.973	54.000	36.055	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 09:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2412MHz by 802.11n(20MHz)	



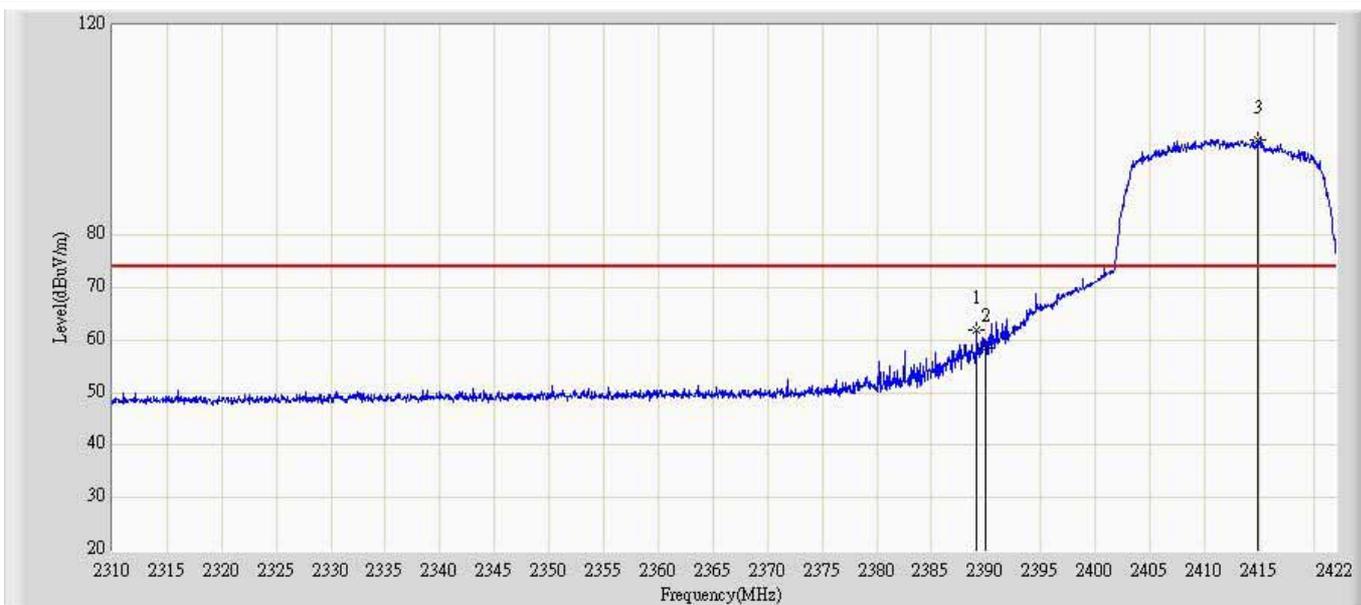
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.296	68.922	32.626	-5.078	74.000	36.295	PK
2			2390.000	68.425	32.124	-5.575	74.000	36.302	PK
3		*	2408.560	104.361	67.907	N/A	N/A	36.454	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2412MHz by 802.11n(20MHz)	



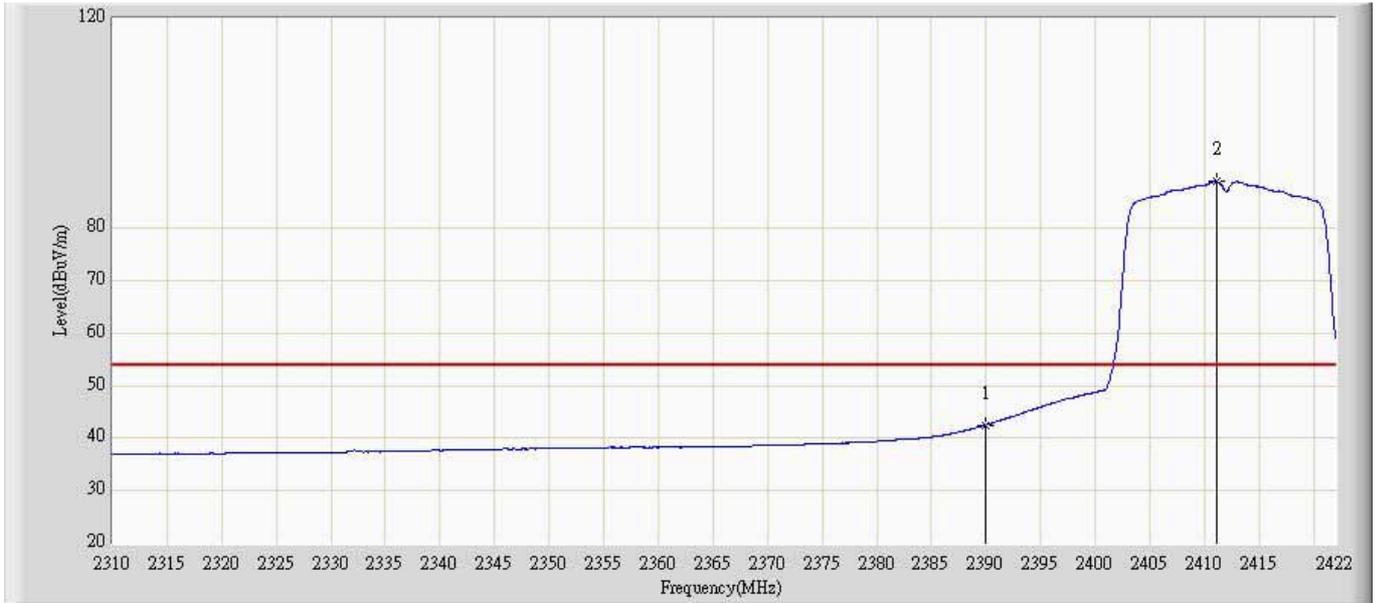
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	48.406	12.105	-5.594	54.000	36.302	AV
2		*	2411.136	94.371	57.896	N/A	N/A	36.475	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 10:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2412MHz by 802.11n(20MHz)	



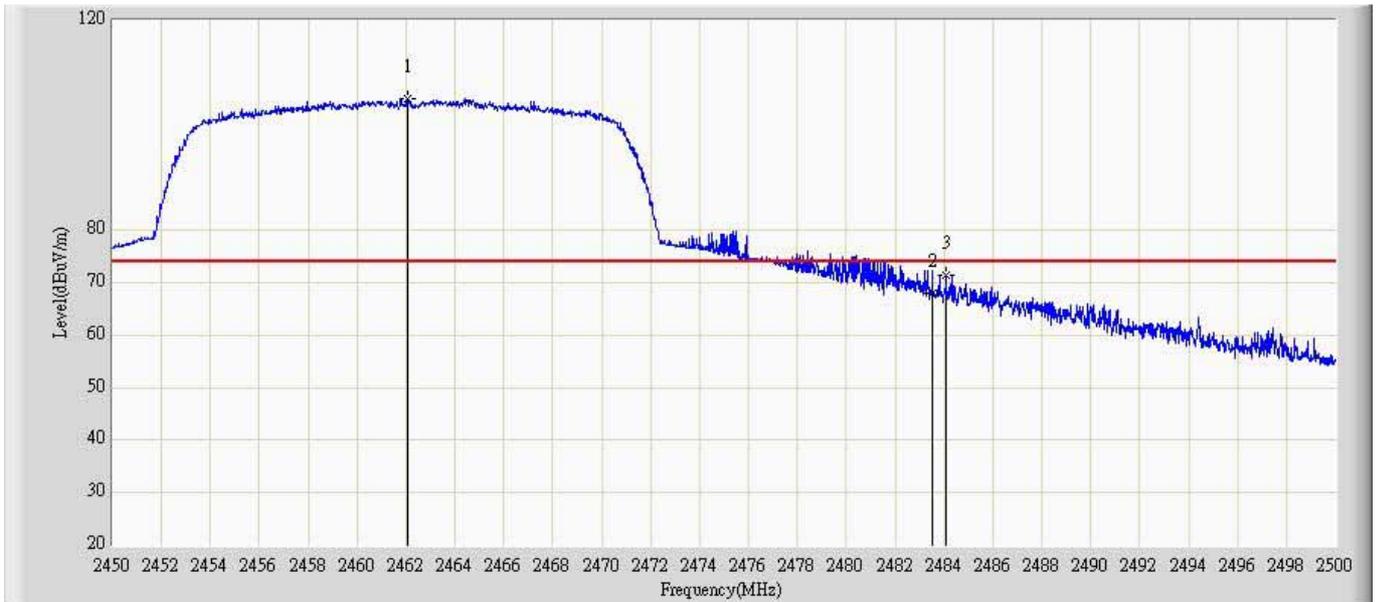
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.184	61.971	26.333	-12.029	74.000	35.638	PK
2			2390.000	58.634	22.993	-15.366	74.000	35.642	PK
3		*	2414.832	98.185	62.437	N/A	N/A	35.749	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 10:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2412MHz by 802.11n(20MHz)	



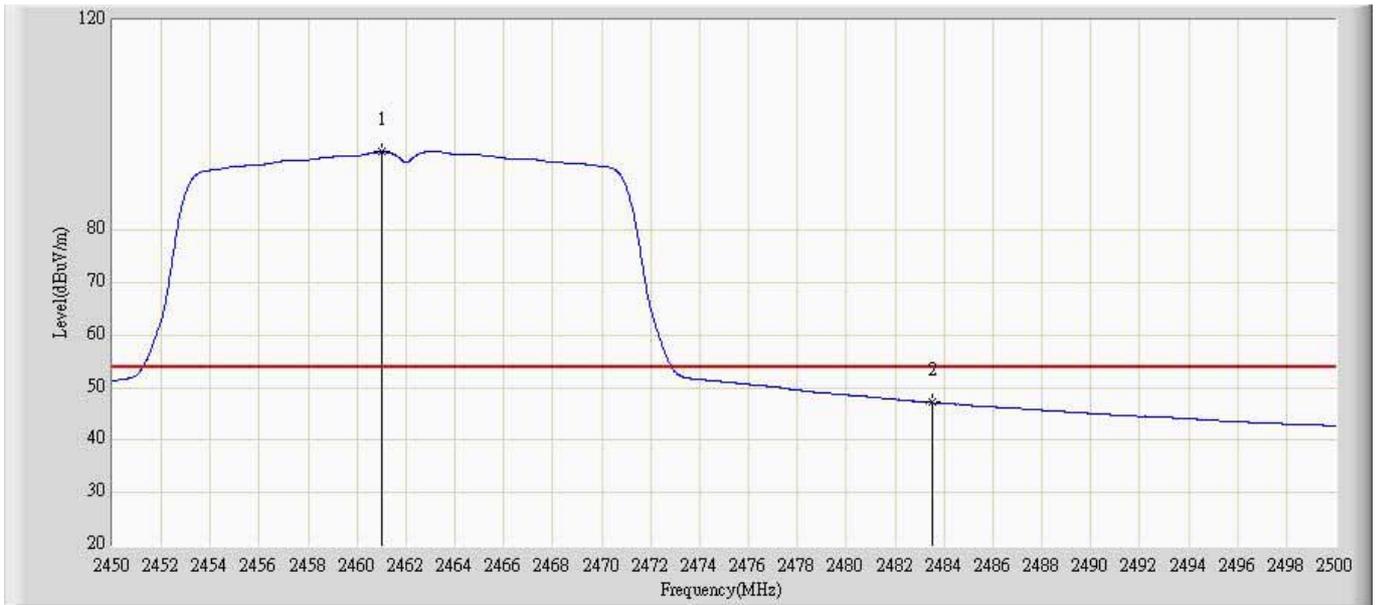
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	42.492	6.851	-11.508	54.000	35.642	AV
2		*	2411.136	88.845	53.114	N/A	N/A	35.730	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2462MHz by 802.11n(20MHz)	



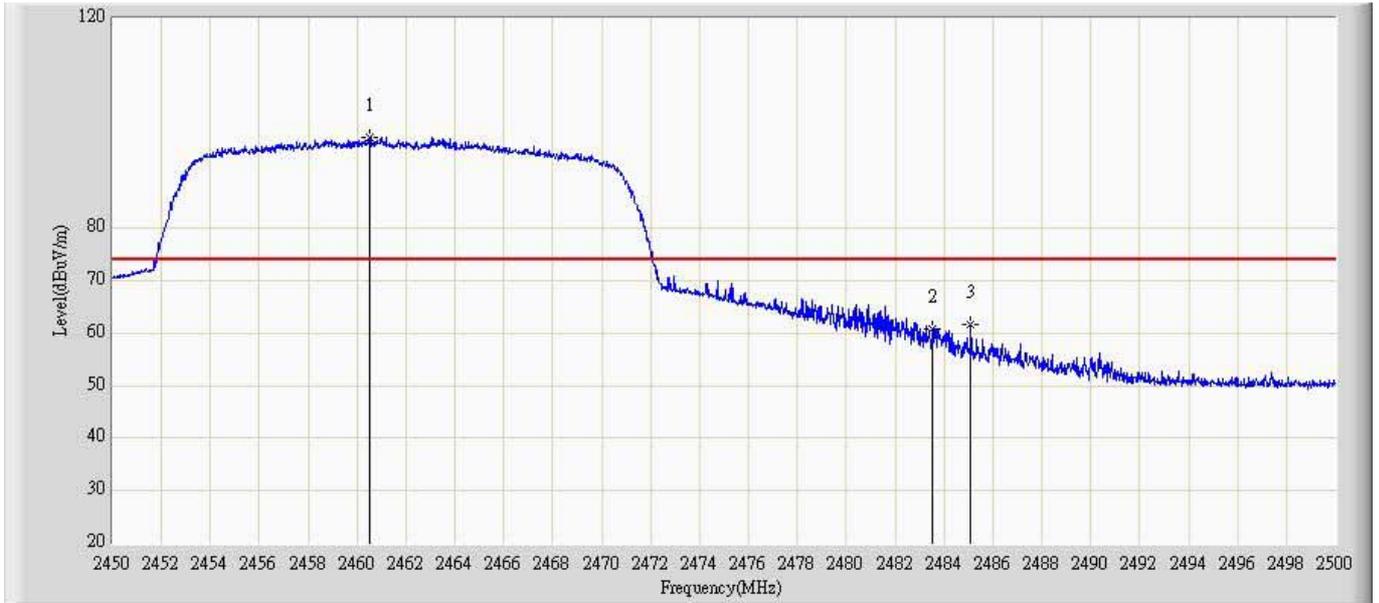
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.050	105.016	68.105	N/A	N/A	36.911	PK
2			2483.500	68.047	30.957	-5.953	74.000	37.089	PK
3			2484.075	71.545	34.450	-2.455	74.000	37.095	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2462MHz by 802.11n(20MHz)	



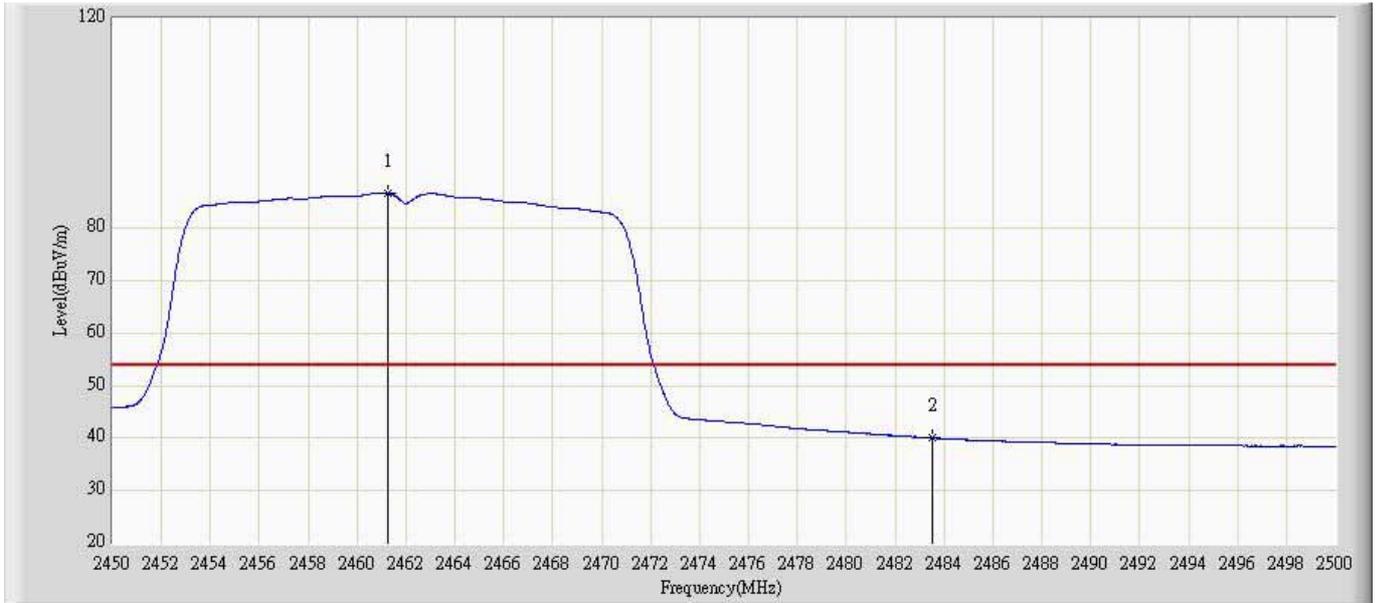
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.025	94.870	57.968	N/A	N/A	36.903	AV
2			2483.500	47.159	10.069	-6.841	54.000	37.089	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2462MHz by 802.11n(20MHz)	



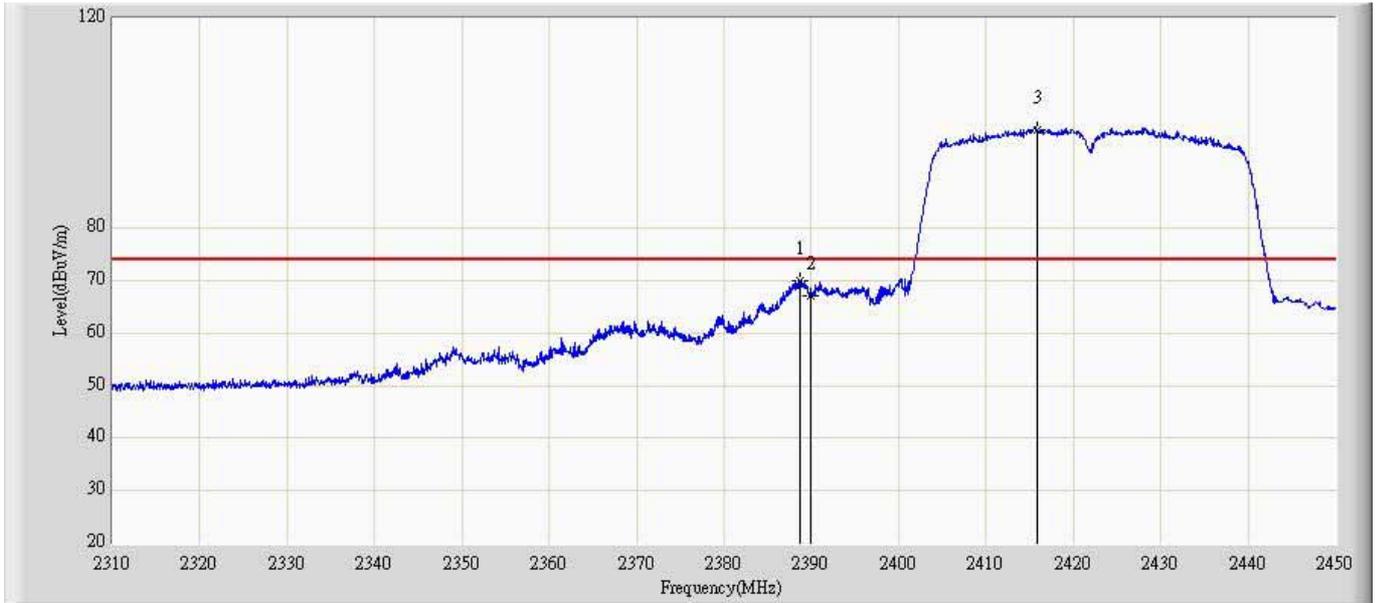
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.500	97.360	61.404	N/A	N/A	35.956	PK
2			2483.500	60.763	24.707	-13.237	74.000	36.055	PK
3			2485.100	61.547	25.484	-12.453	74.000	36.063	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode3: Transmit at Channel 2462MHz by 802.11n(20MHz)	



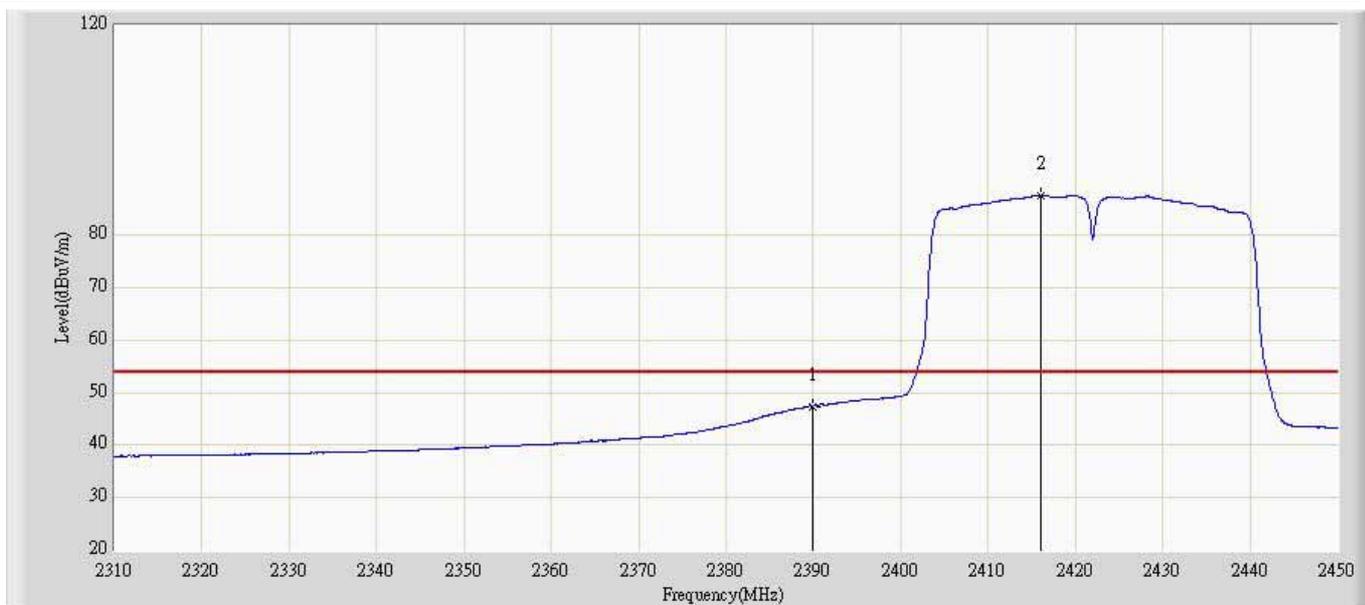
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.250	86.650	50.691	N/A	N/A	35.959	AV
2			2483.500	39.992	3.936	-14.008	54.000	36.055	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2422MHz by 802.11n(40MHz)	



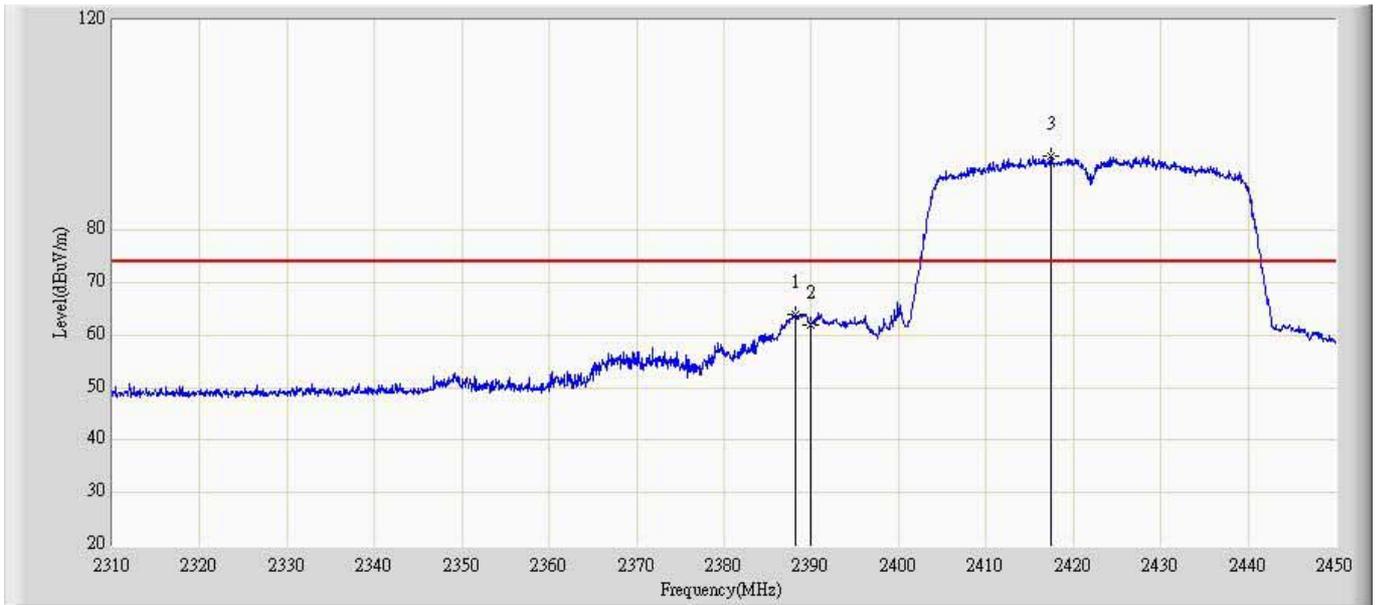
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.680	69.932	33.641	-4.068	74.000	36.291	PK
2			2390.000	66.996	30.695	-7.004	74.000	36.302	PK
3		*	2415.816	98.601	62.085	N/A	N/A	36.517	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2422MHz by 802.11n(40MHz)	



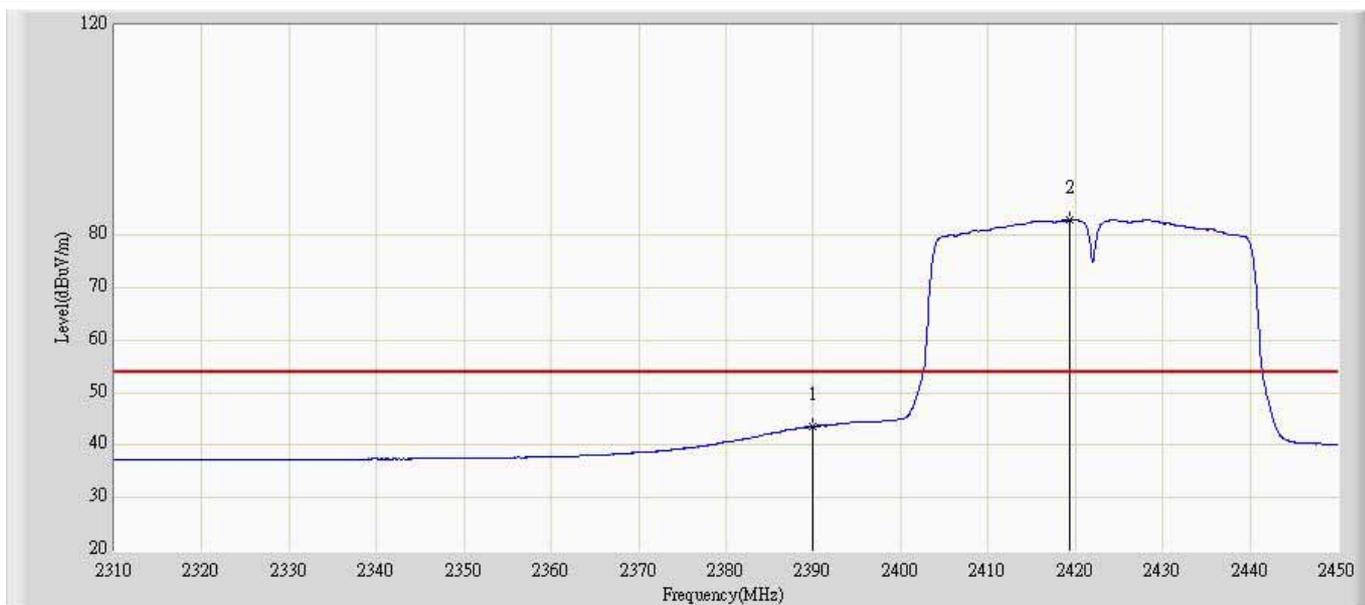
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	47.430	11.129	-6.570	54.000	36.302	AV
2		*	2415.980	87.638	51.120	N/A	N/A	36.518	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 13:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2422MHz by 802.11n(40MHz)	



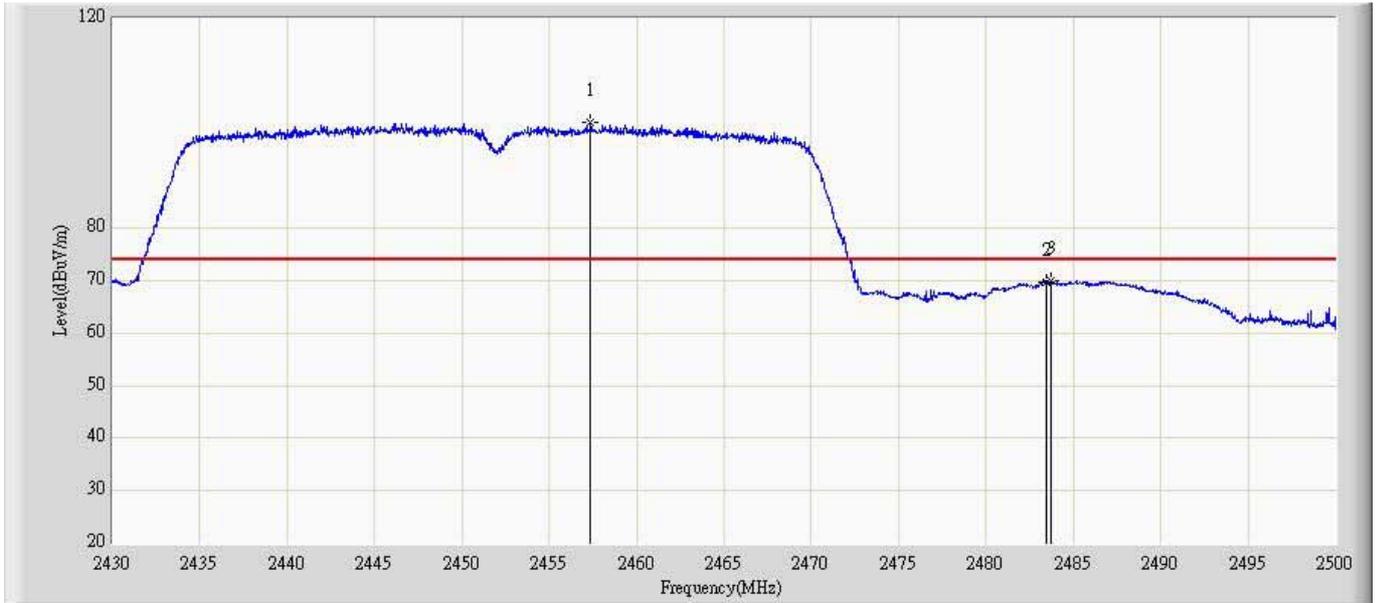
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.260	64.040	28.406	-9.960	74.000	35.634	PK
2			2390.000	62.081	26.440	-11.919	74.000	35.642	PK
3		*	2417.380	94.232	58.472	N/A	N/A	35.761	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 14:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2422MHz by 802.11n(40MHz)	



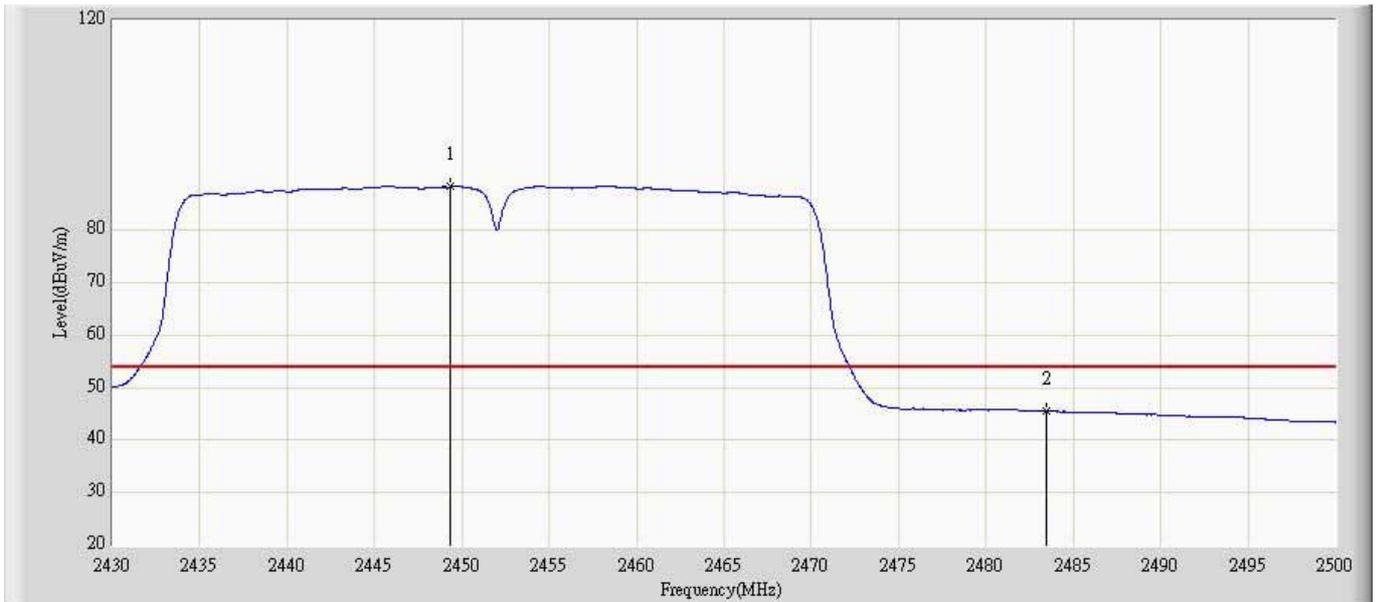
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	43.493	7.852	-10.507	54.000	35.642	AV
2		*	2419.410	83.015	47.245	N/A	N/A	35.770	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 14:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2452MHz by 802.11n(40MHz)	



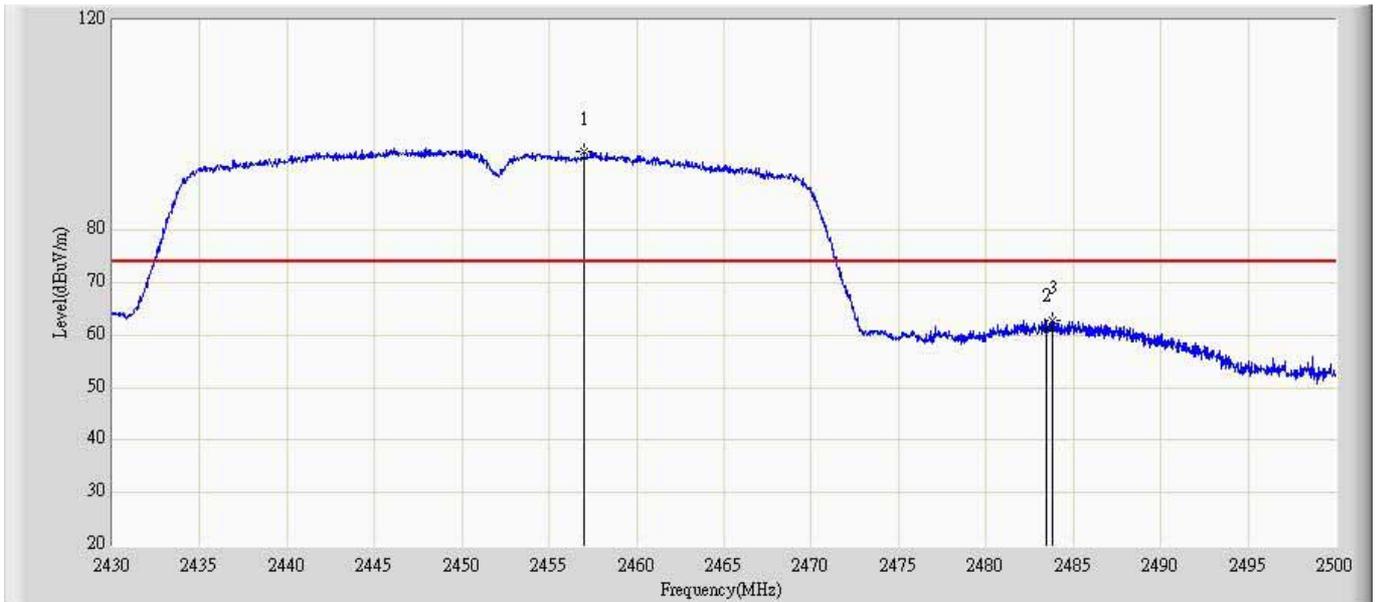
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2457.335	100.114	63.244	N/A	N/A	36.871	PK
2			2483.500	69.745	32.655	-4.255	74.000	37.089	PK
3			2483.690	70.080	32.989	-3.920	74.000	37.092	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 14:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2452MHz by 802.11n(40MHz)	



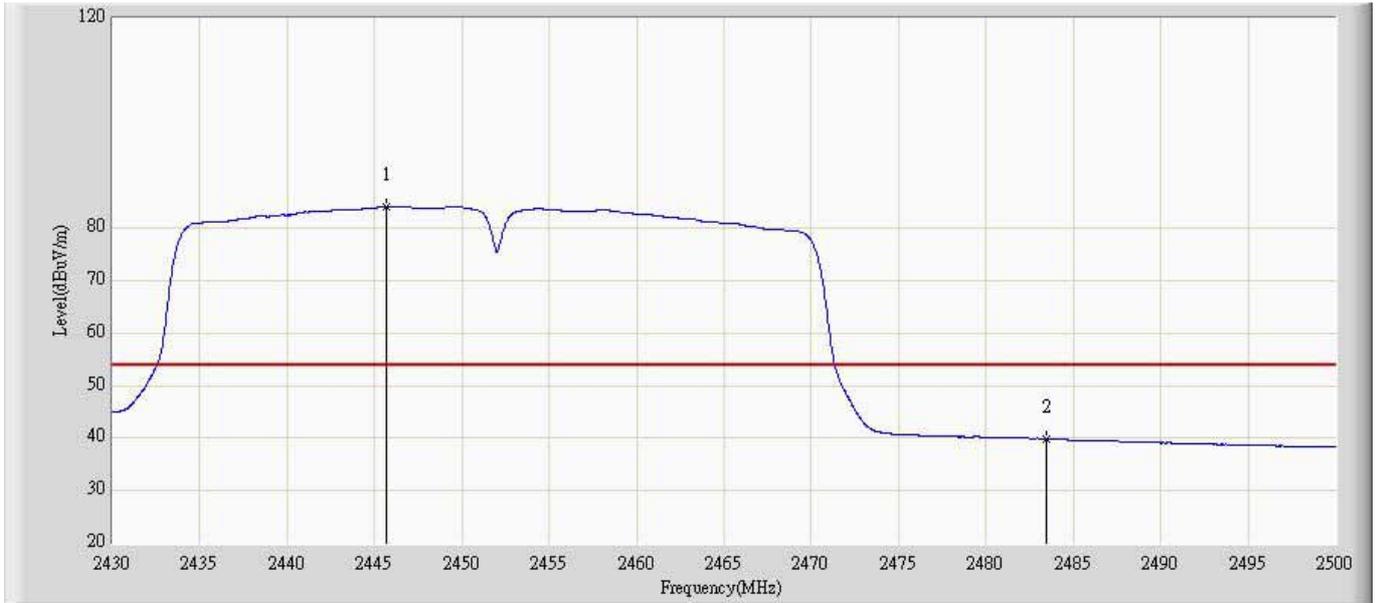
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2449.355	88.268	51.468	N/A	N/A	36.800	AV
2			2483.500	45.586	8.496	-8.414	54.000	37.089	AV

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 14:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2452MHz by 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.985	95.044	59.105	N/A	N/A	35.939	PK
2			2483.500	61.356	25.300	-12.644	74.000	36.055	PK
3			2483.795	62.764	26.707	-11.236	74.000	36.057	PK

Engineer: Cloud	
Site: AC5	Time: 2013/07/22 - 14:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WCDMA Digital Mobile Phone	Power: DC 3.7V
Note: Mode4: Transmit at Channel 2452MHz by 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2445.680	84.144	48.259	N/A	N/A	35.885	AV
2			2483.500	39.885	3.829	-14.115	54.000	36.055	AV

7. Operation Frequency Range of 20dB Bandwidth

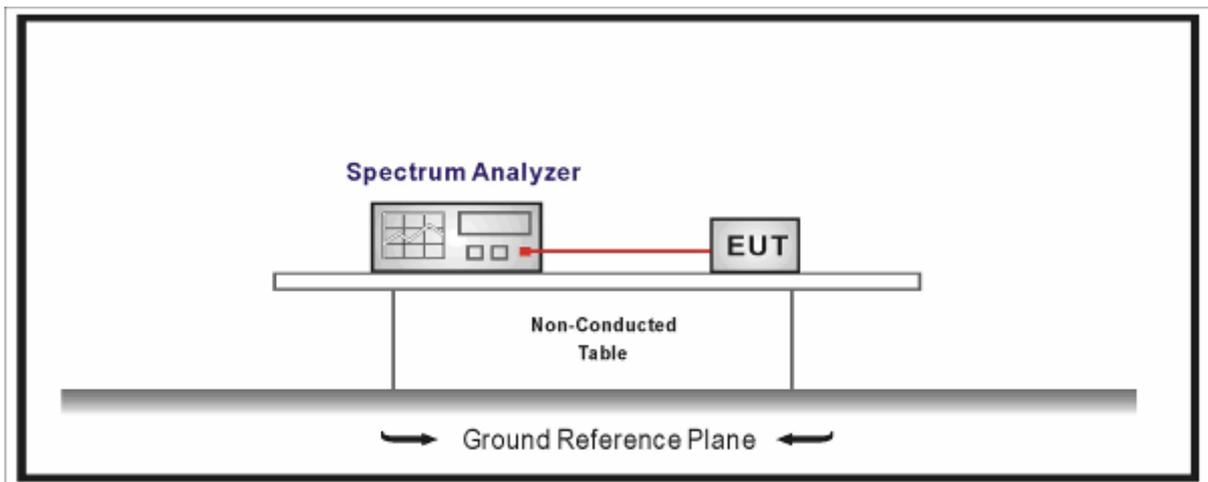
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

7.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

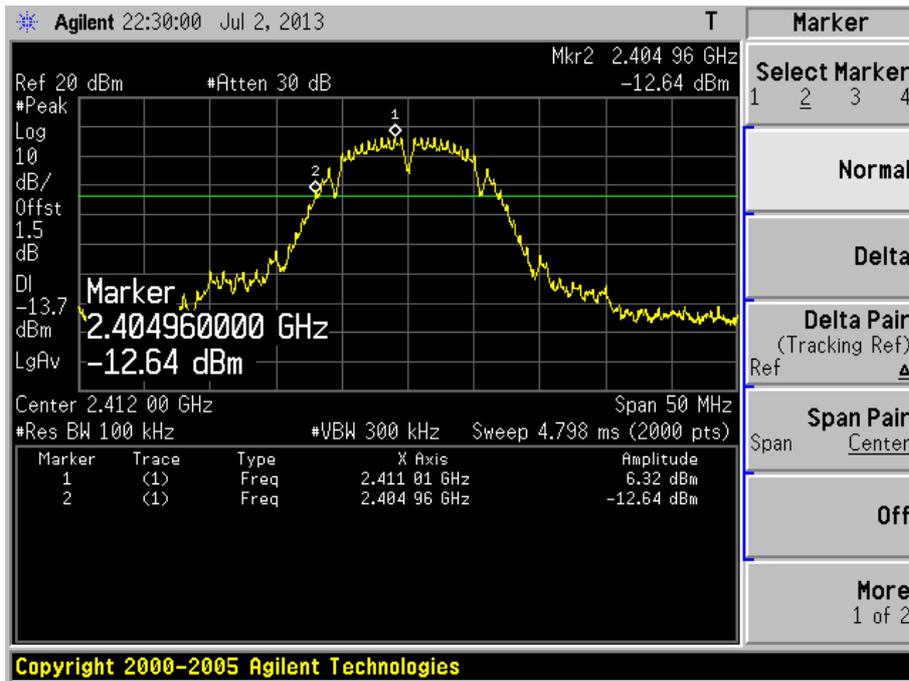
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

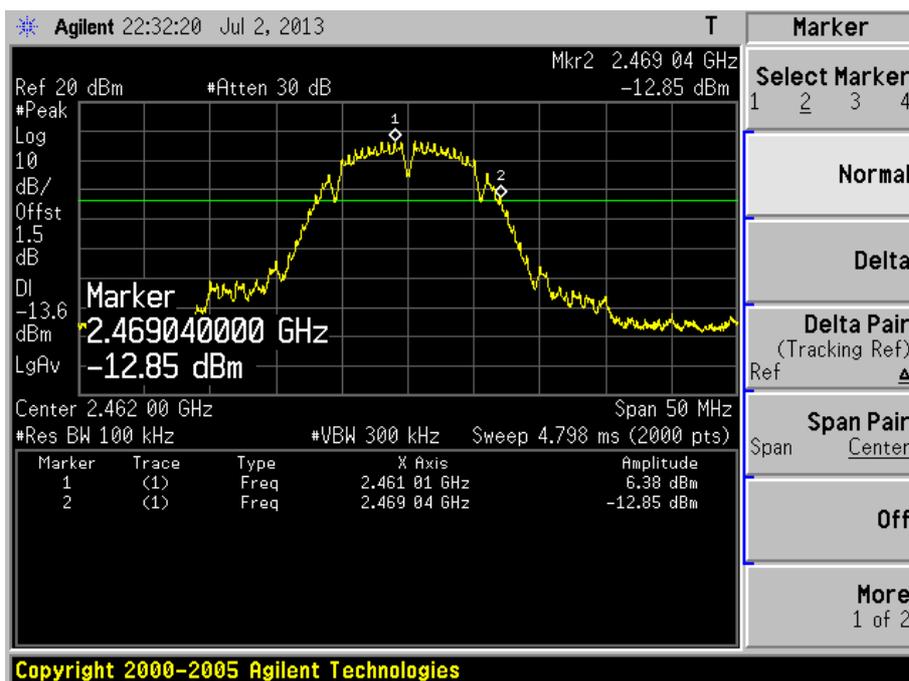
7.6. Test Result

Product	:	WCDMA Digital Mobile Phone
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

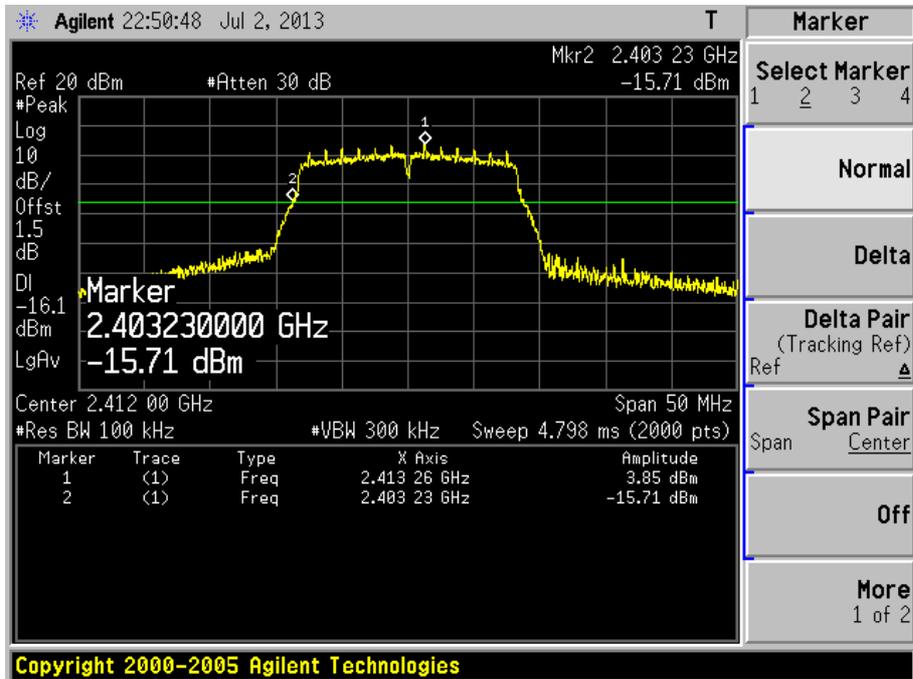


Channel 11 (2462MHz)

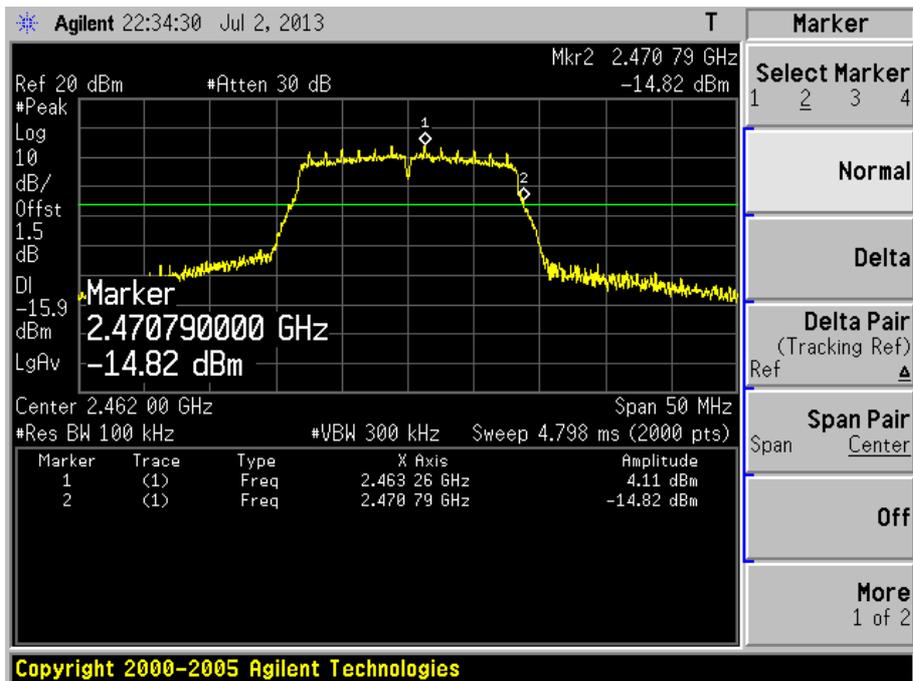


Product	: WCDMA Digital Mobile Phone
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

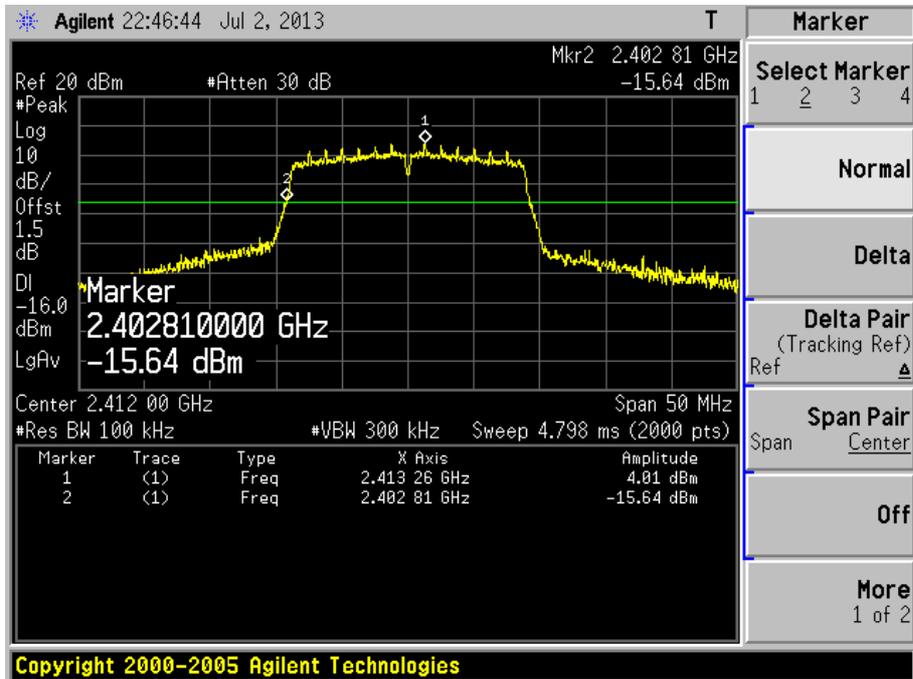


Channel 11 (2462MHz)

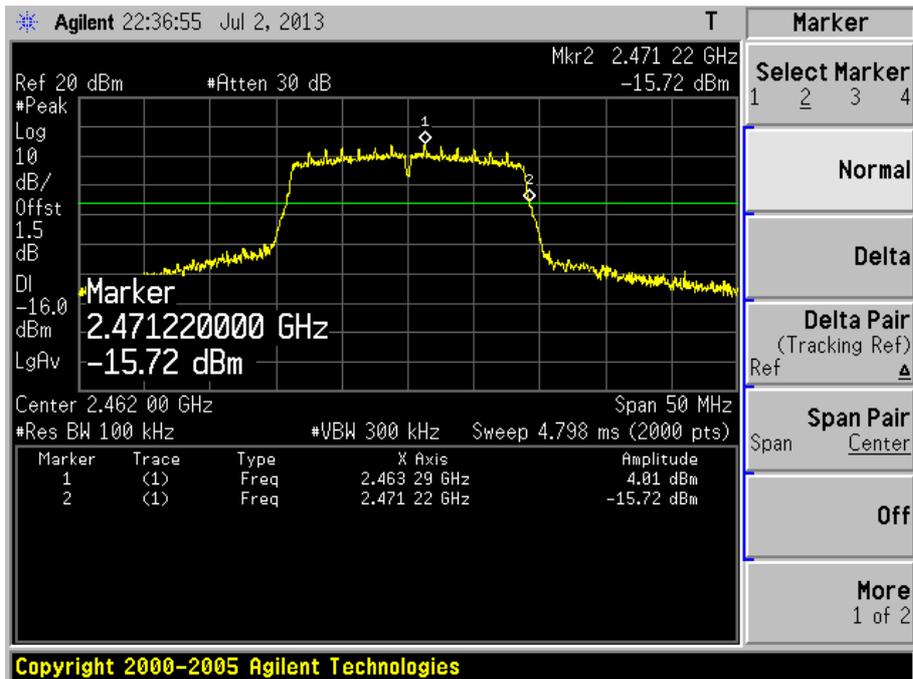


Product	: WCDMA Digital Mobile Phone
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

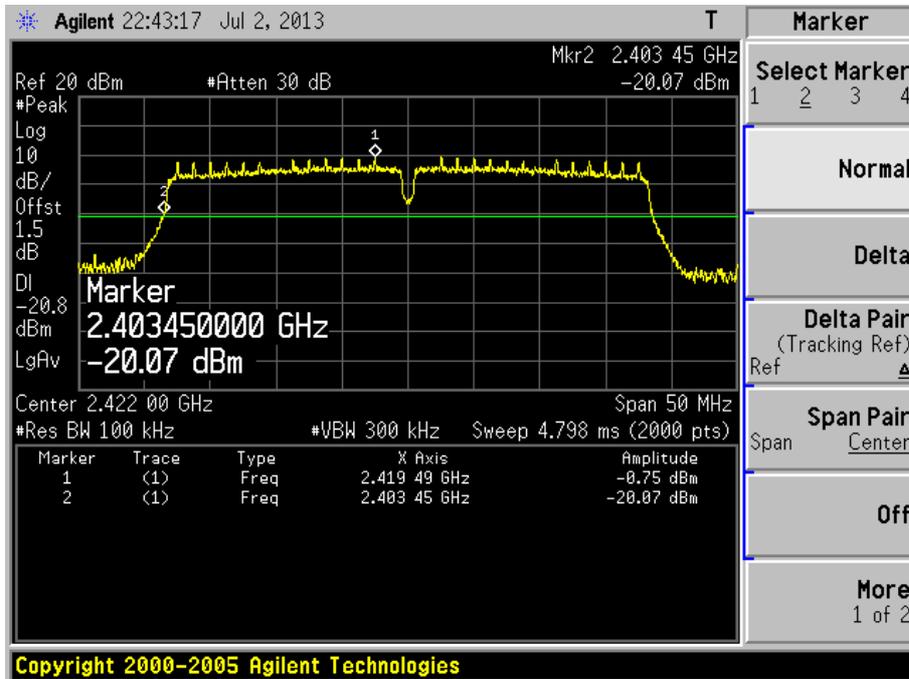


Channel 11 (2462MHz)

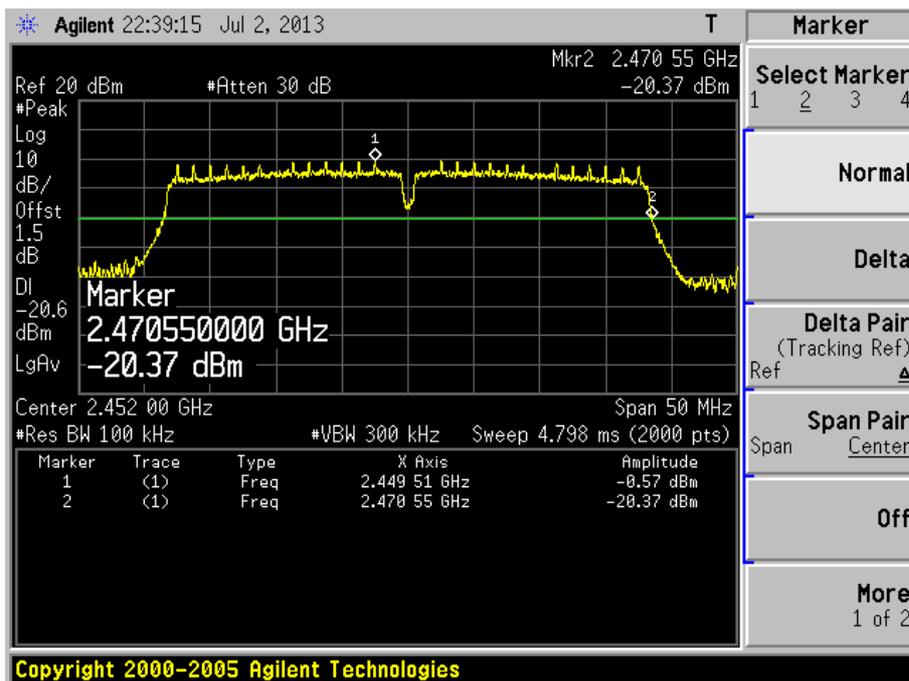


Product	: WCDMA Digital Mobile Phone
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

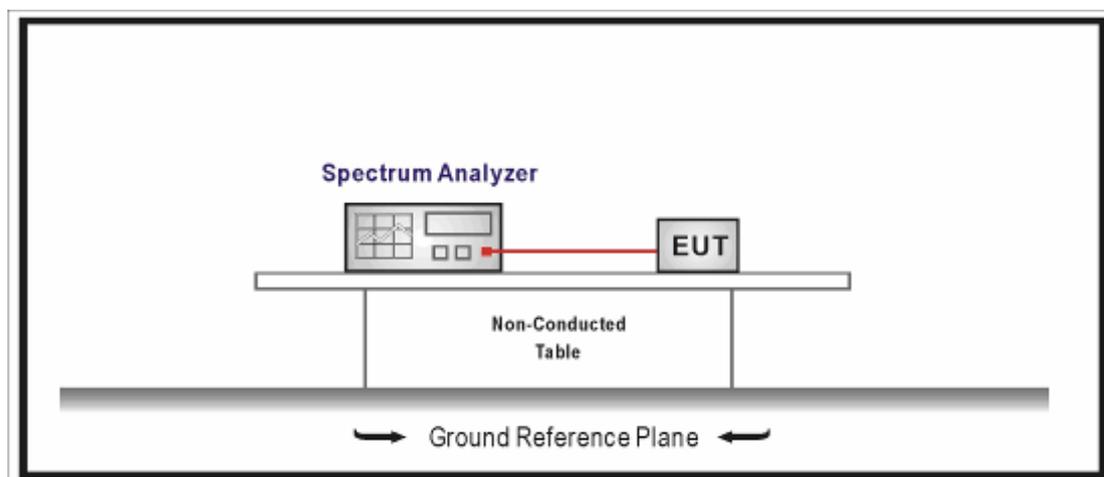
8.1. Test Equipment

Occupied Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

8.5. Uncertainty

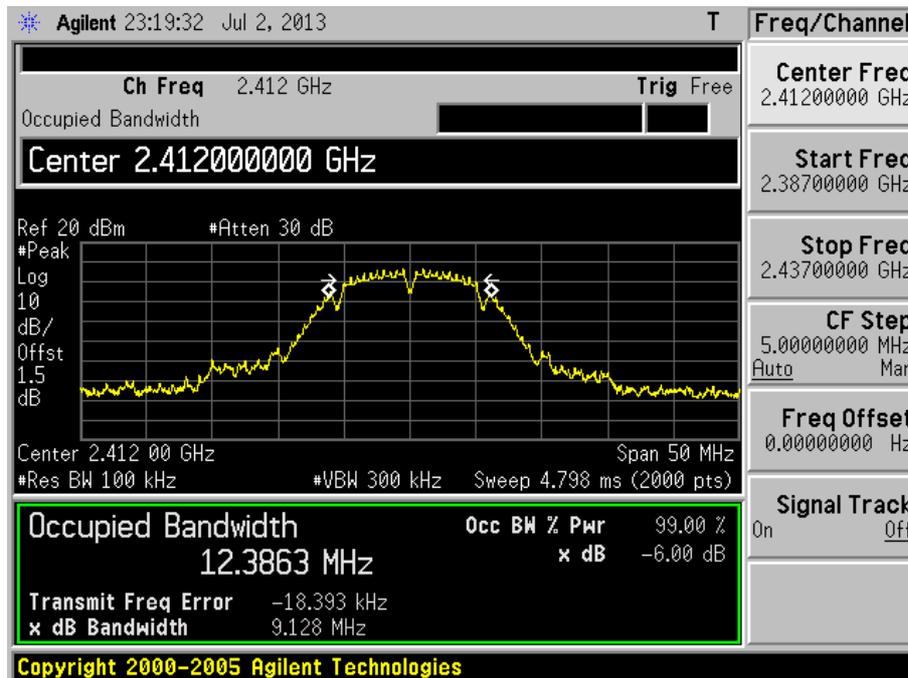
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

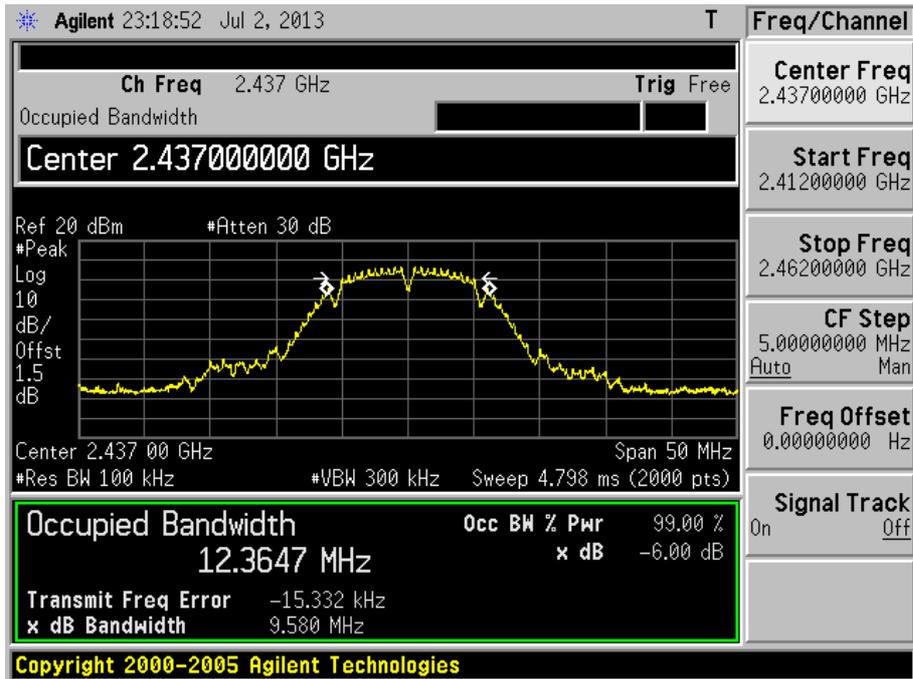
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
01	2412	9128	500	Pass	12386.3
06	2437	9580	500	Pass	12364.7
11	2462	10024	500	Pass	12331.1

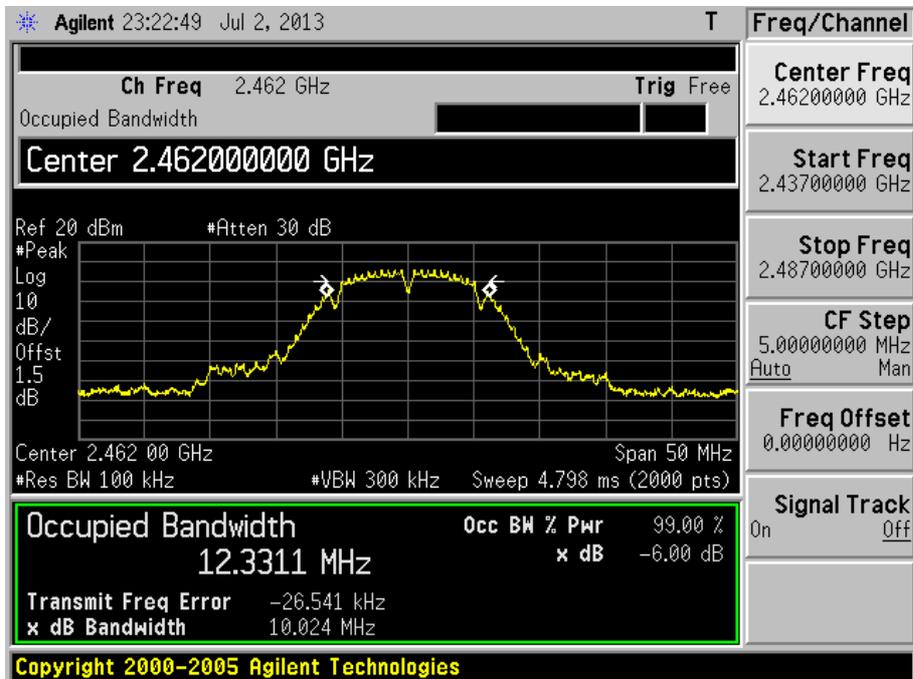
Channel 01 (2412MHz)



Channel 06 (2437MHz)



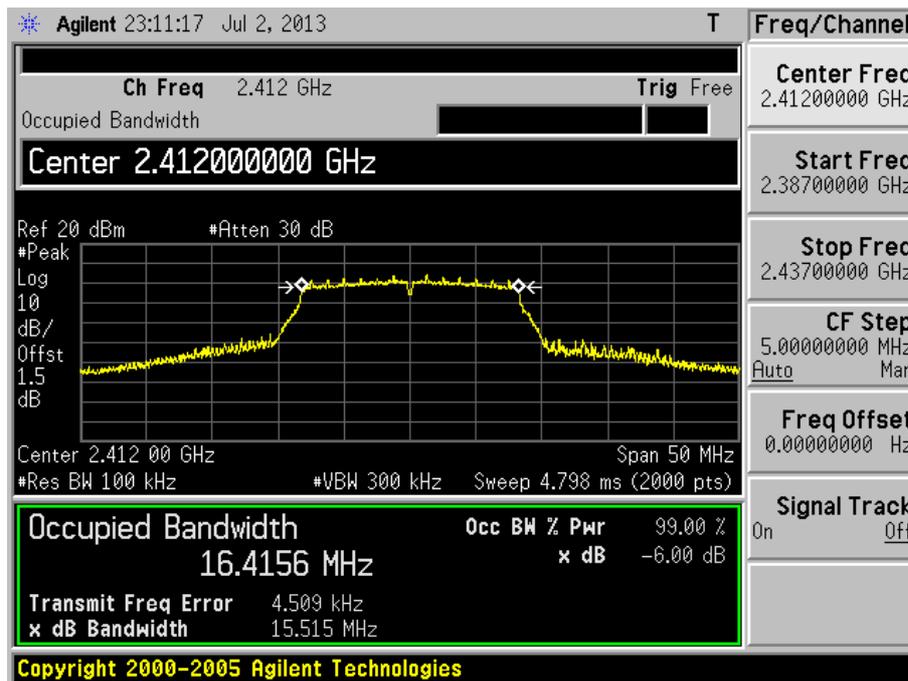
Channel 11 (2462MHz)



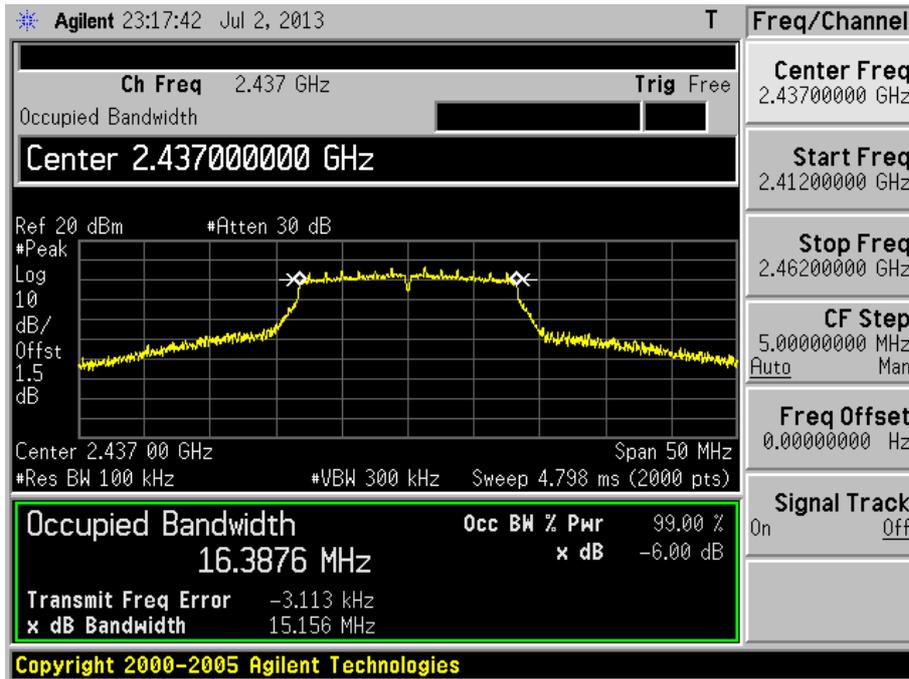
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
01	2412	15515	500	Pass	16415.6
06	2437	15156	500	Pass	16387.6
11	2462	15476	500	Pass	16375.0

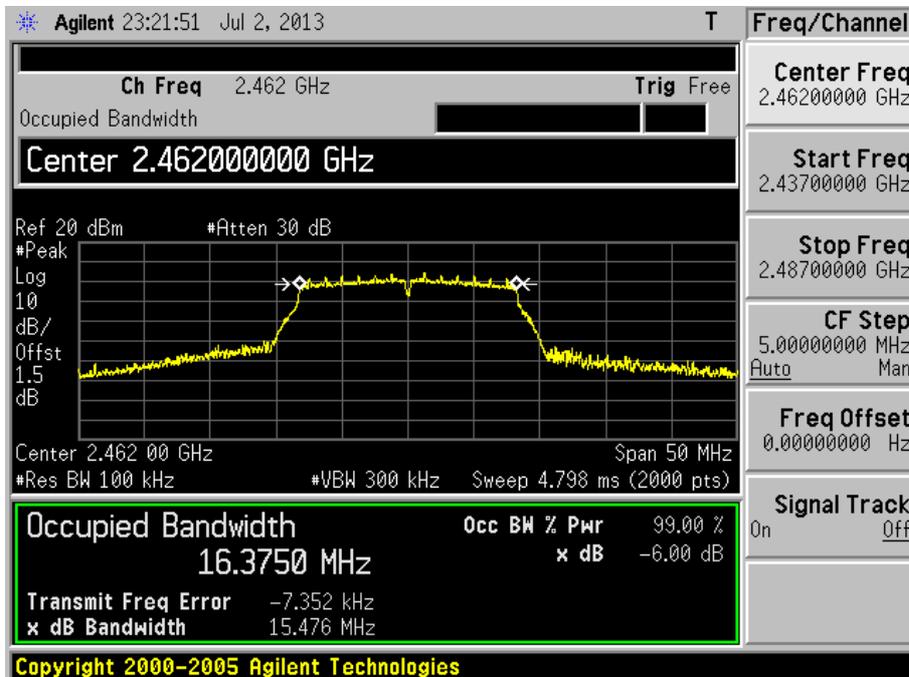
Channel 01 (2412MHz)



Channel 06 (2437MHz)



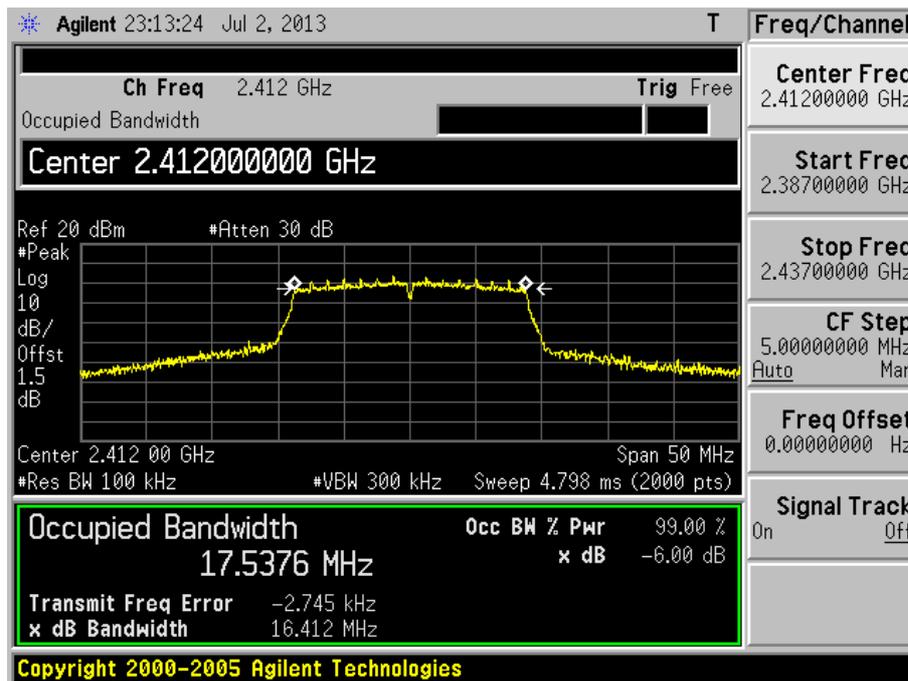
Channel 11 (2462MHz)



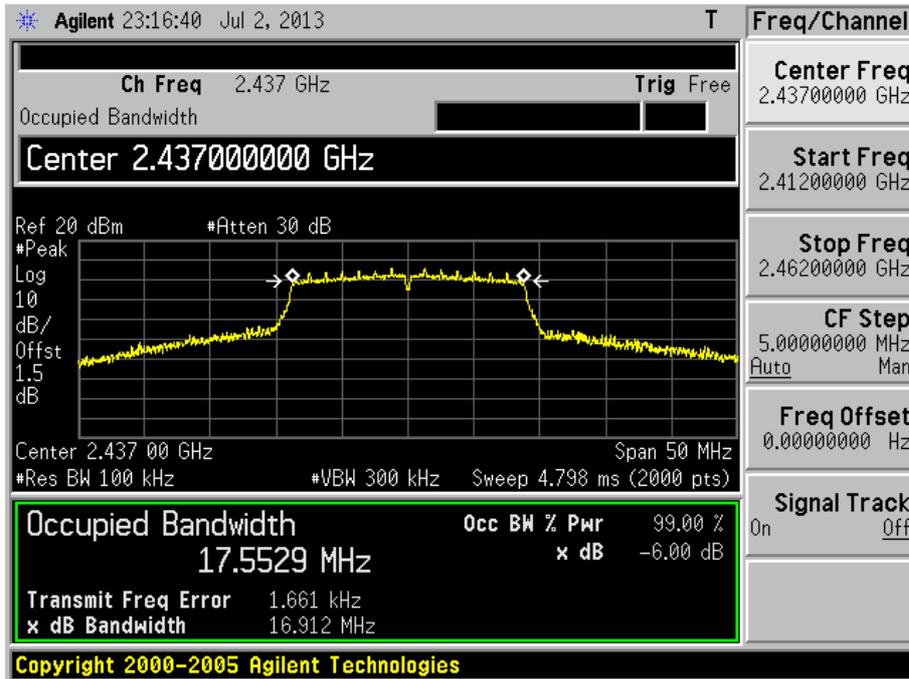
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
01	2412	16412	500	Pass	17537.6
06	2437	16912	500	Pass	17552.9
11	2462	15163	500	Pass	17534.2

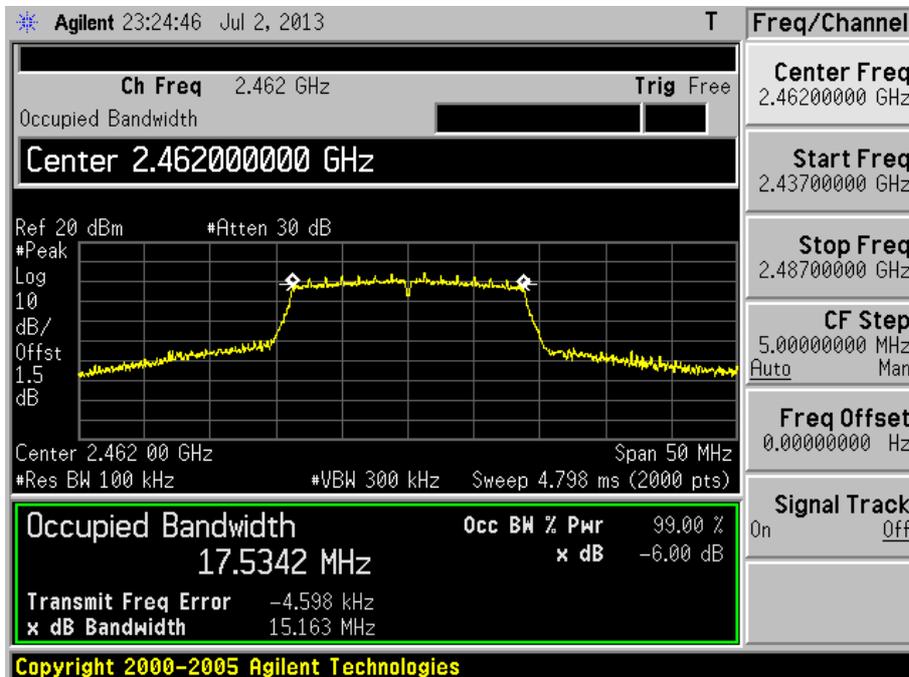
Channel 01 (2412MHz)



Channel 06 (2437MHz)



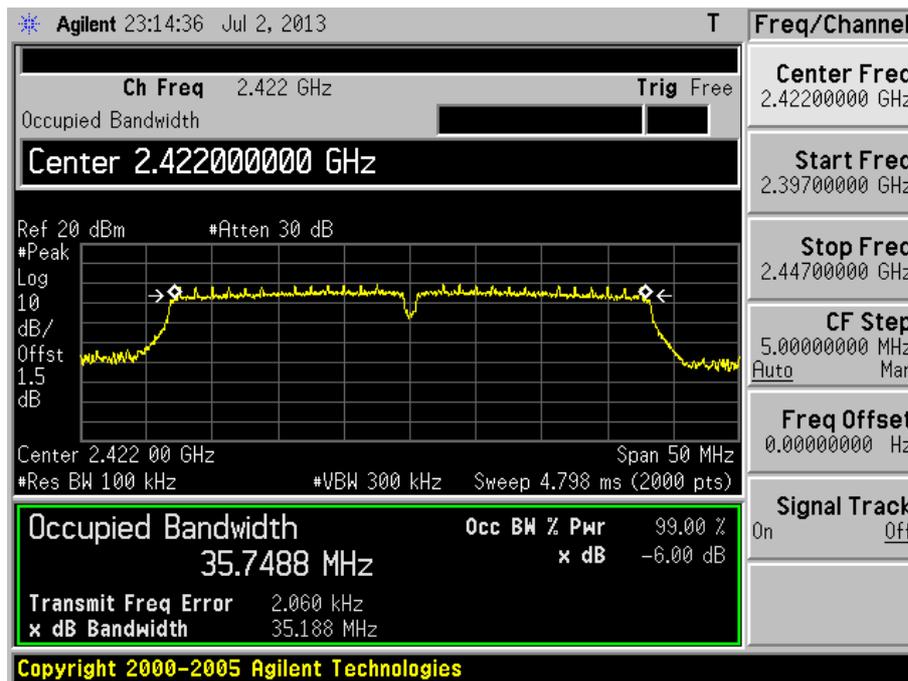
Channel 11 (2462MHz)



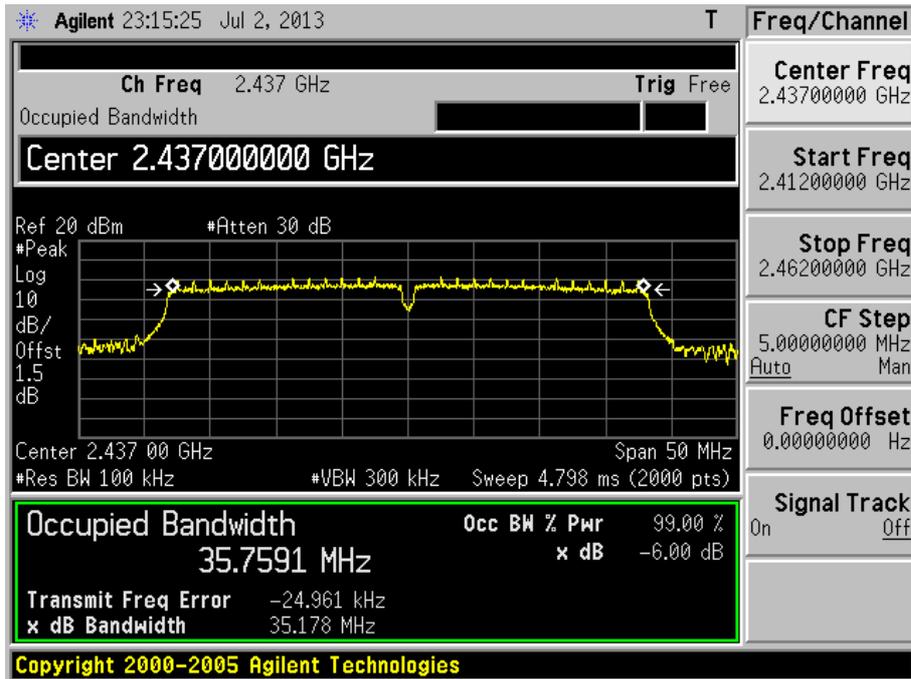
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
03	2422	35188	500	Pass	35748.8
06	2437	35178	500	Pass	35759.1
09	2452	35164	500	Pass	35760.2

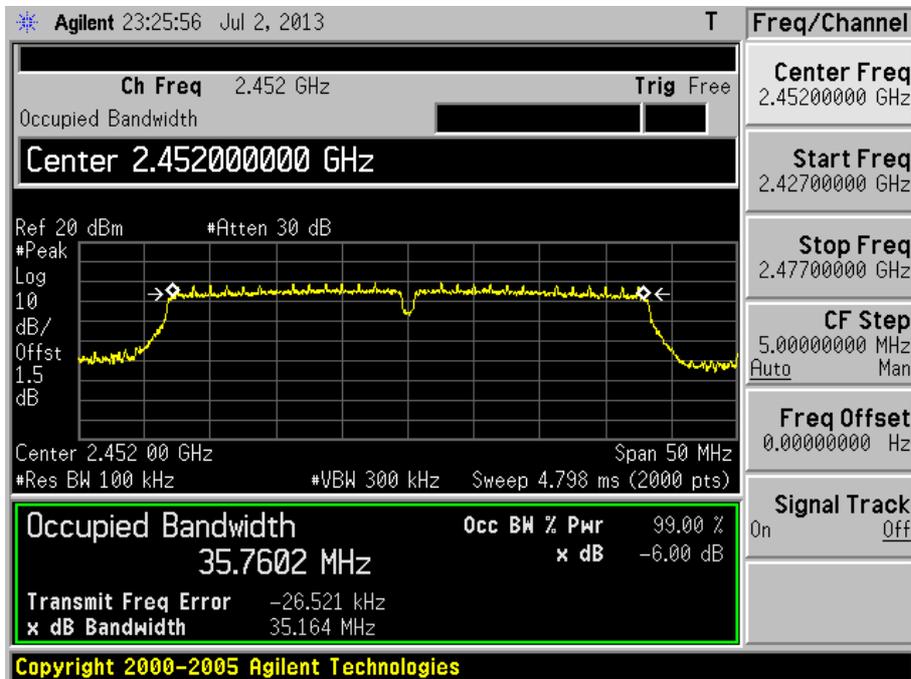
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

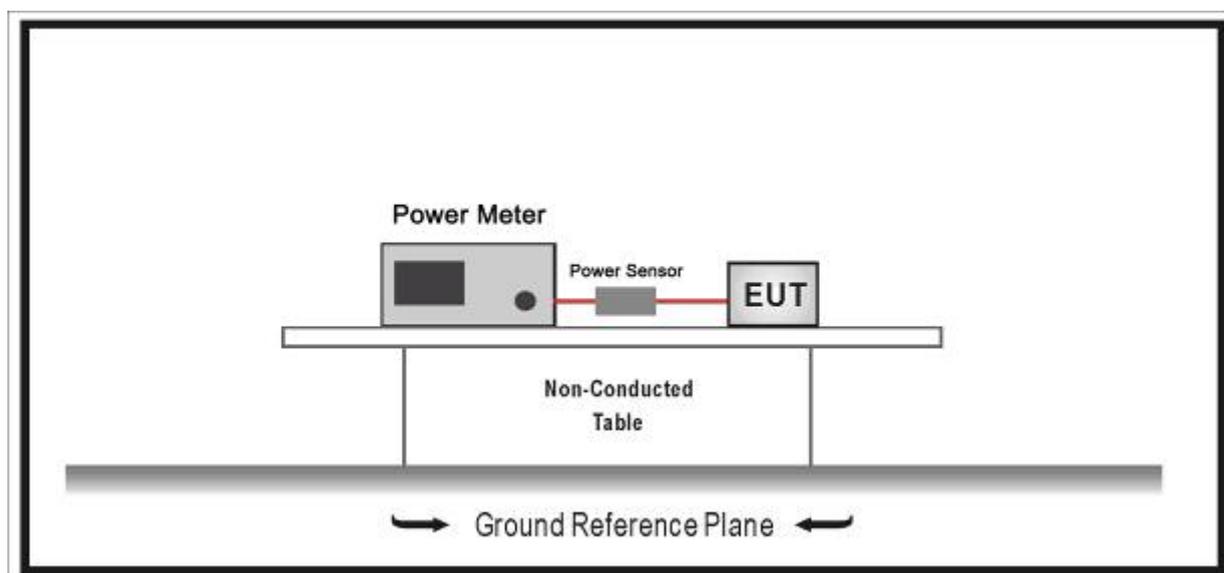
9.1. Test Equipment

Power Output / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2013.11.10
Power Sensor	Anritsu	MA2411B	0846014	2013.11.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

9.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Use the wideband power meter to test peak power and record the result.

9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

9.6. Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (blue marker) for final test of each channel.

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)					
		802.11b	802.11g	20MHz Bandwidth		40MHz Bandwidth	
				800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6.5	7.2	13.5	15.0
1	1	2	9	13.0	14.4	27.0	30.0
0	1	5.5	12	19.5	21.7	40.5	45.0
1	1	11	18	26.0	28.9	54.0	60.0
4	1	---	24	39.0	43.3	81.0	90.0
5	1	---	36	52.0	57.8	108.0	120.0
6	1	---	48	58.5	65.0	121.5	135.0
7	1	---	54	65.0	72.2	135.0	150.0

Power output at various data rates:

Test Mode	Bandwidth	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11b	20	2437	6	1	17.72
				5.5	17.61
				11	17.51
802.11g	20	2437	6	6	23.56
				24	23.43
				54	22.71
802.11n20	20	2437	6	MCS0	23.58
				MCS4	23.36
				MCS7	23.23
802.11n40	40	2437	6	MCS0	23.36
				MCS4	22.96
				MCS7	22.95

Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	17.56	30.00	Pass
6	2437	17.72	30.00	Pass
11	2462	17.96	30.00	Pass

Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	22.65	30.00	Pass
6	2437	23.56	30.00	Pass
11	2462	23.43	30.00	Pass

Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	22.85	30.00	Pass
6	2437	23.58	30.00	Pass
11	2462	23.43	30.00	Pass

Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
3	2422	22.78	30.00	Pass
6	2437	23.36	30.00	Pass
9	2452	23.16	30.00	Pass

10. Power Spectral Density

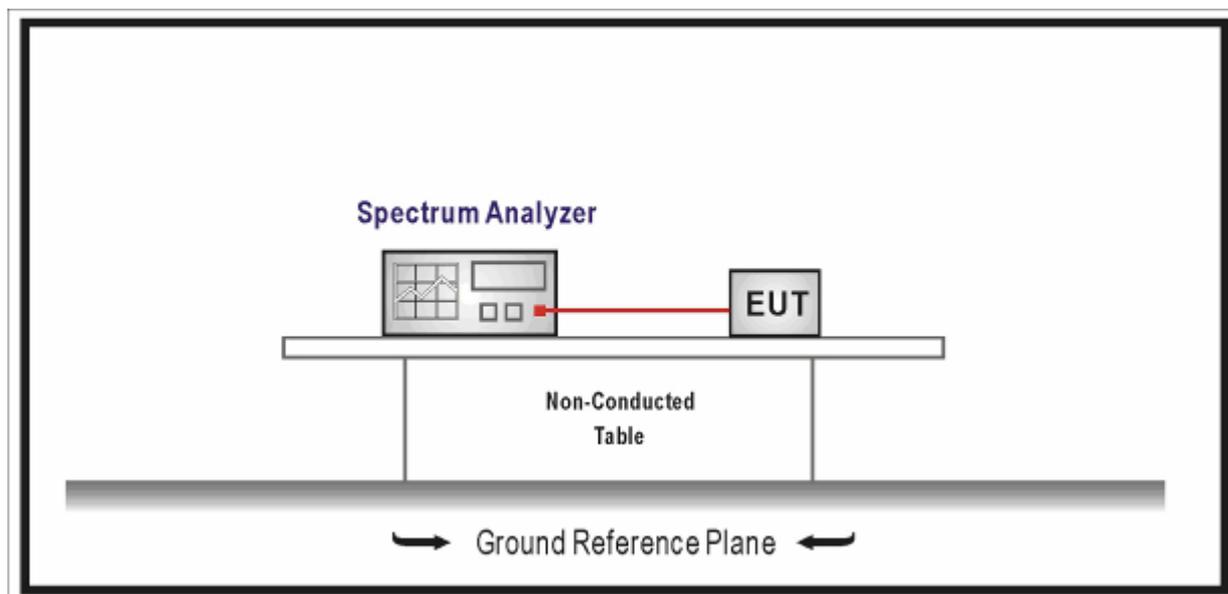
10.1. Test Equipment

Power Spectral Density / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

10.2. Test Setup



10.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

10.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set the Span to 1.5 times the DTS channel bandwidth, $RBW \geq 3$ kHz, $VBW \geq 3*RBW$, Sweep time = auto couple, detector = Peak, trace mode = max hold, allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level.

10.5. Uncertainty

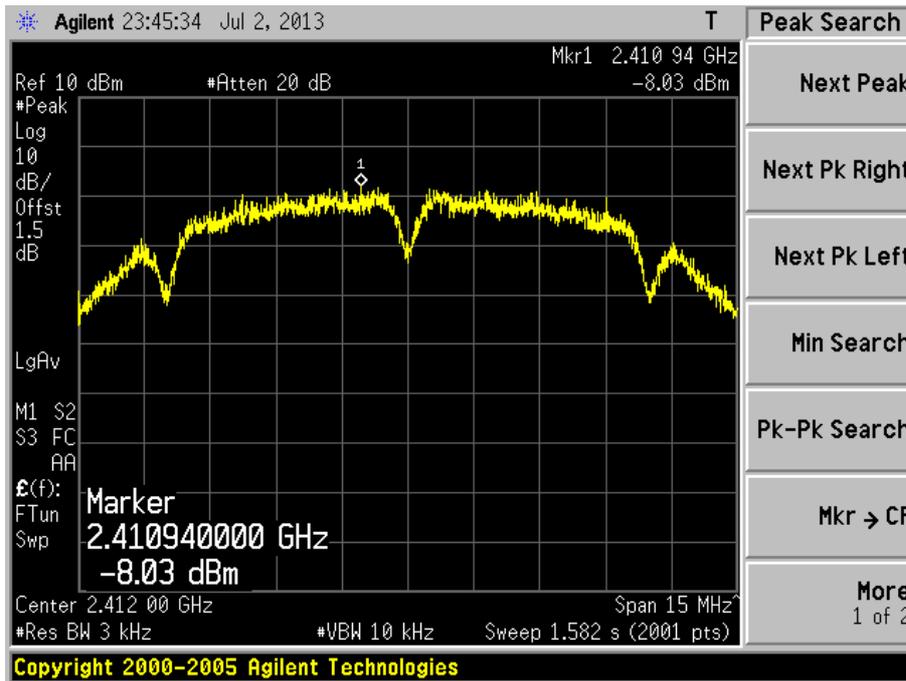
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

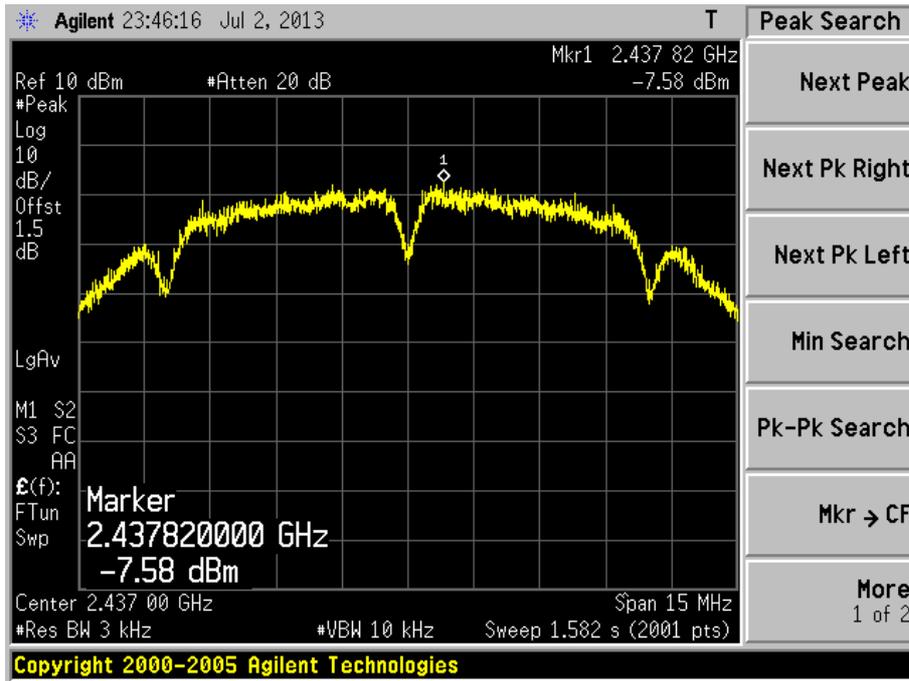
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
01	2412	-8.03	8	Pass
06	2437	-7.58	8	Pass
11	2462	-8.03	8	Pass

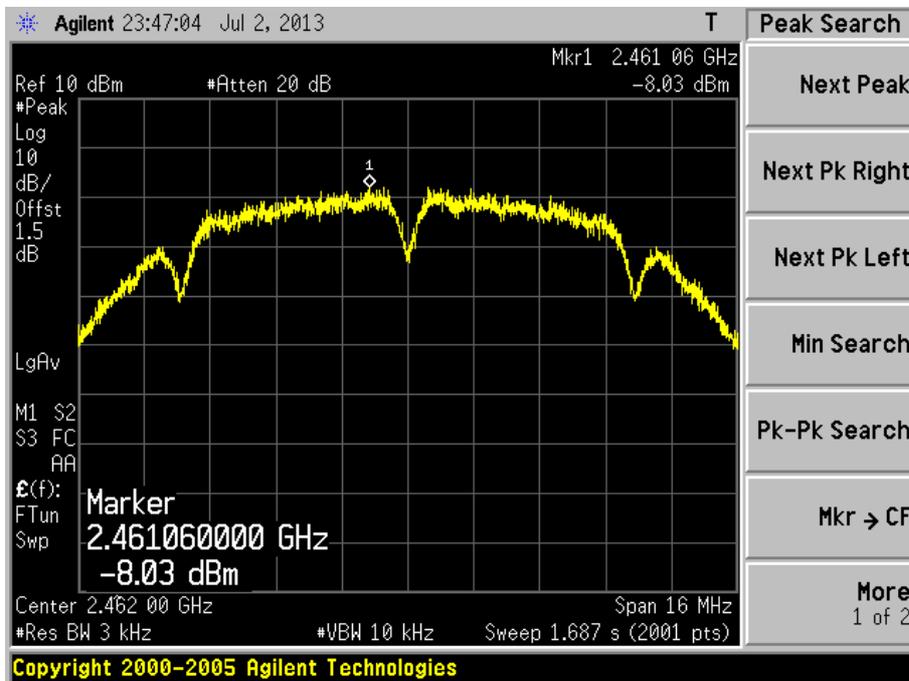
Channel 01 (2412MHz)



Channel 06 (2437MHz)



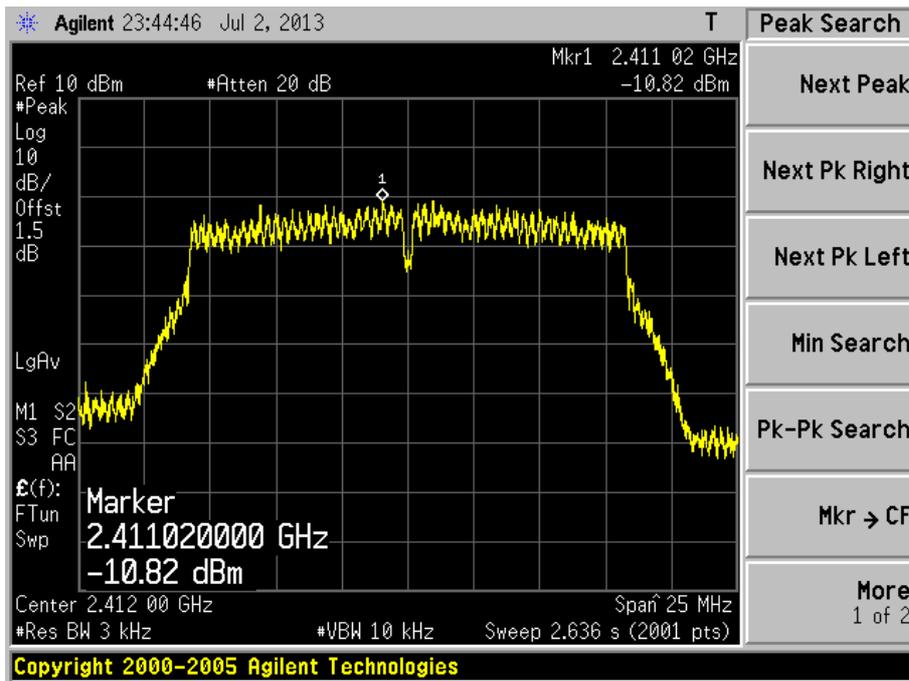
Channel 11 (2462MHz)



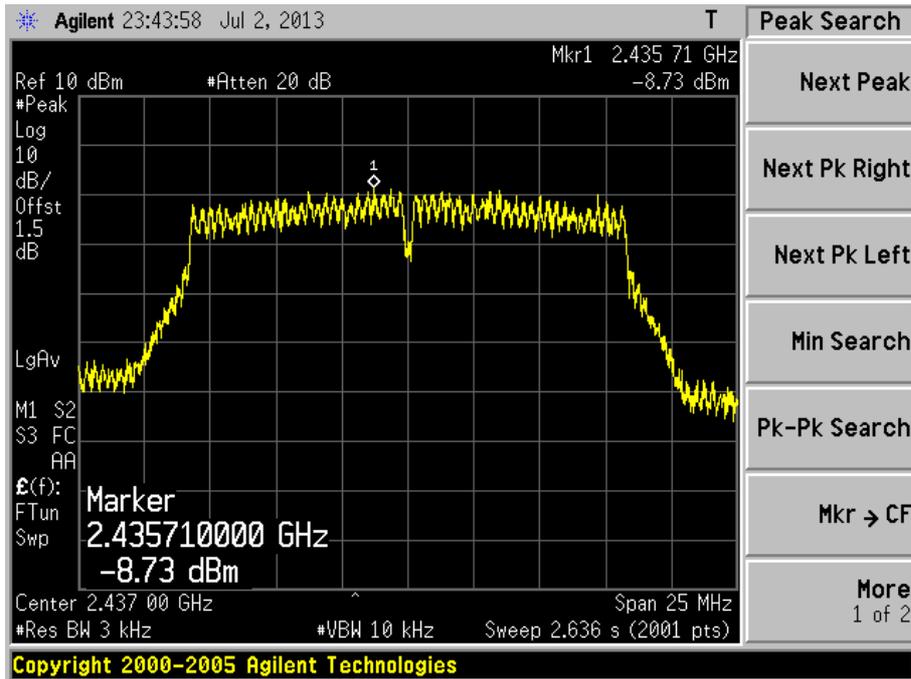
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Reading Value (dBm)	Limit (dBm)	Result
01	2412	-10.82	8	Pass
06	2437	-8.73	8	Pass
11	2462	-9.62	8	Pass

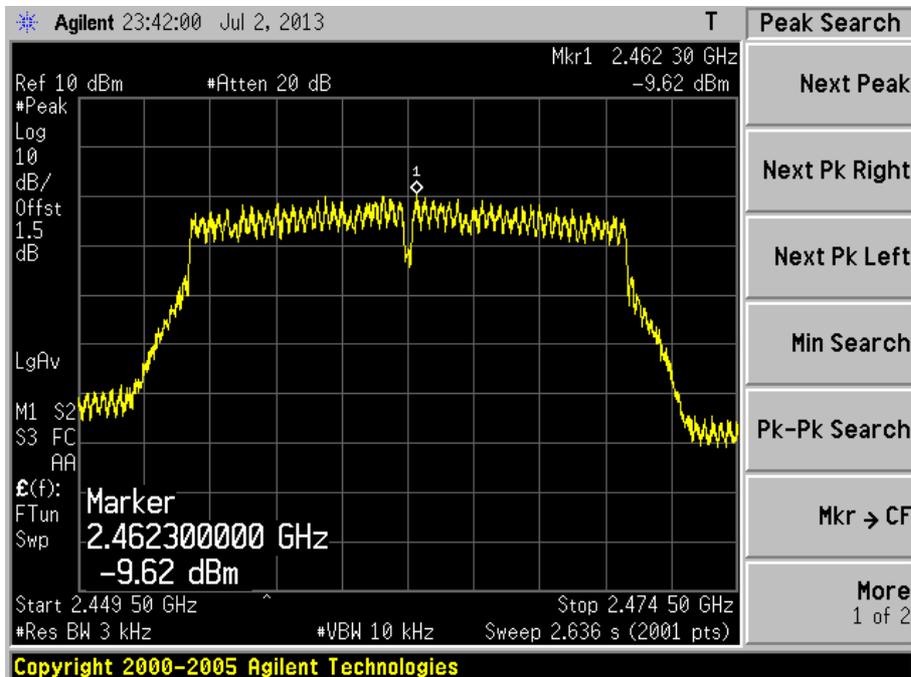
Channel 01 (2412MHz)



Channel 06 (2437MHz)



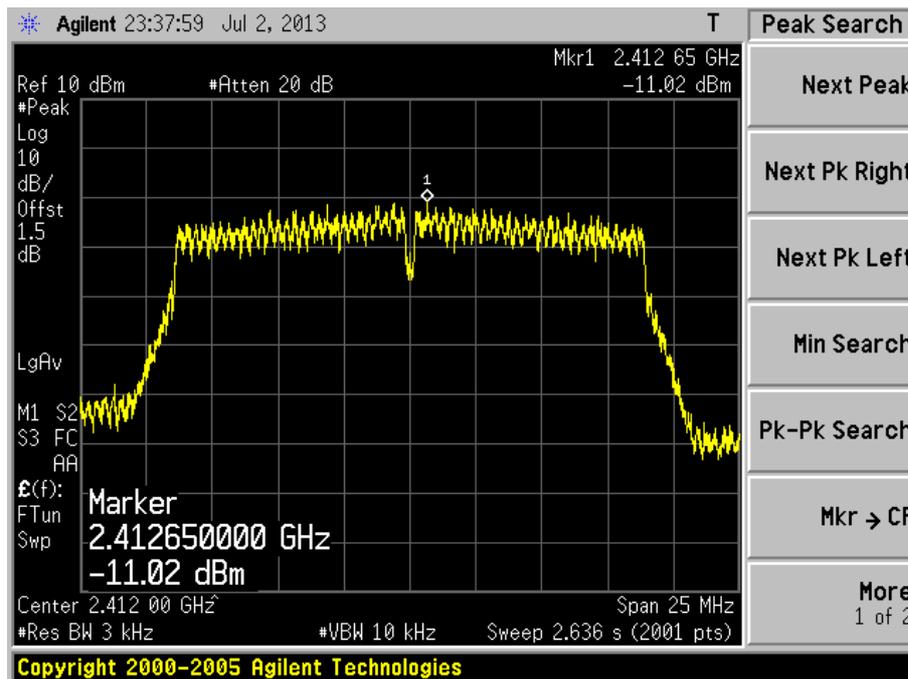
Channel 11 (2462MHz)



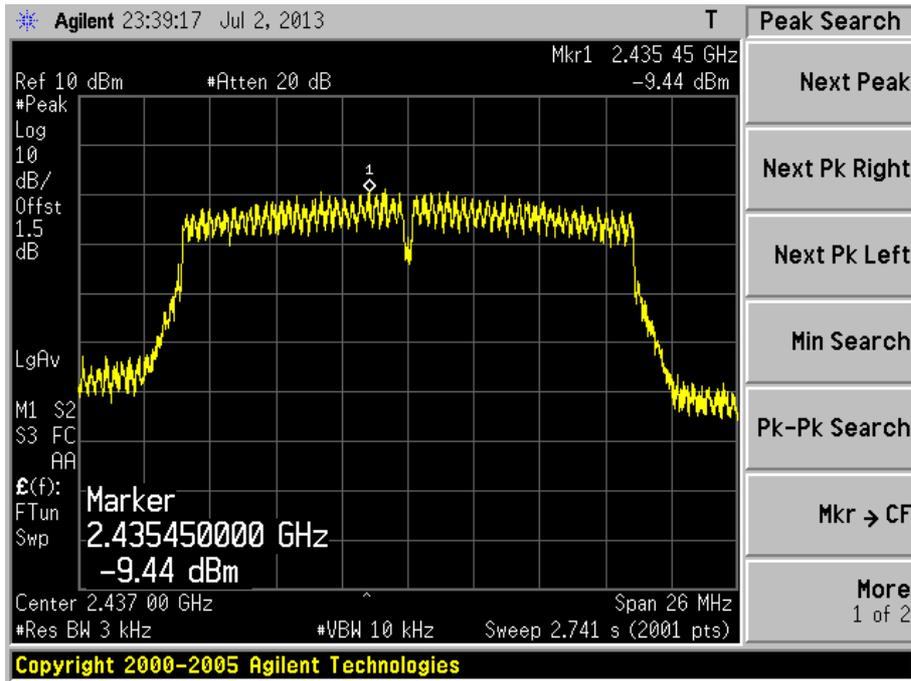
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
01	2412	-11.02	8	Pass
06	2437	-9.44	8	Pass
11	2462	-11.20	8	Pass

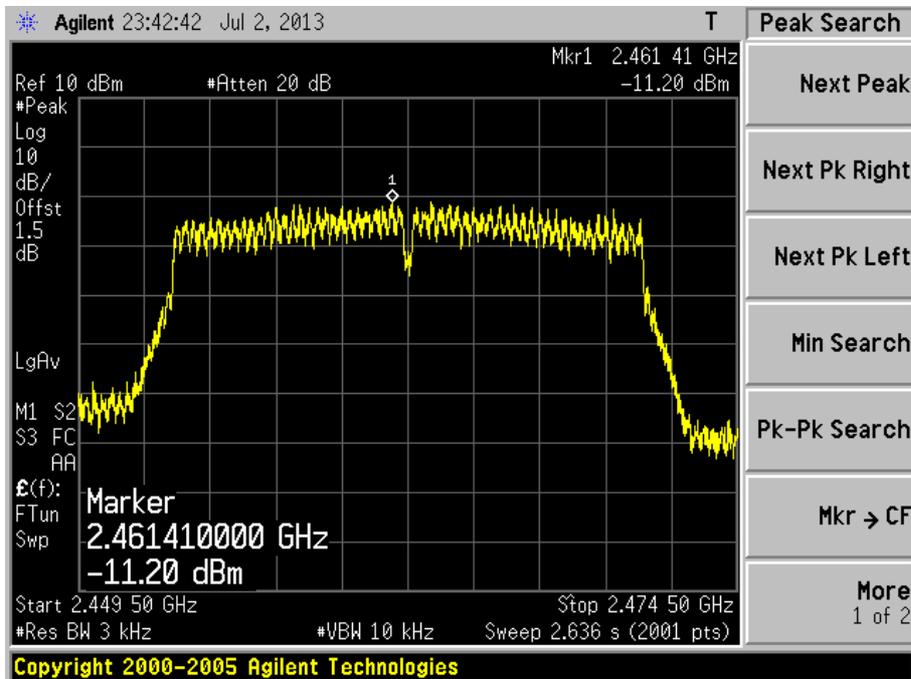
Channel 01 (2412MHz)



Channel 06 (2437MHz)



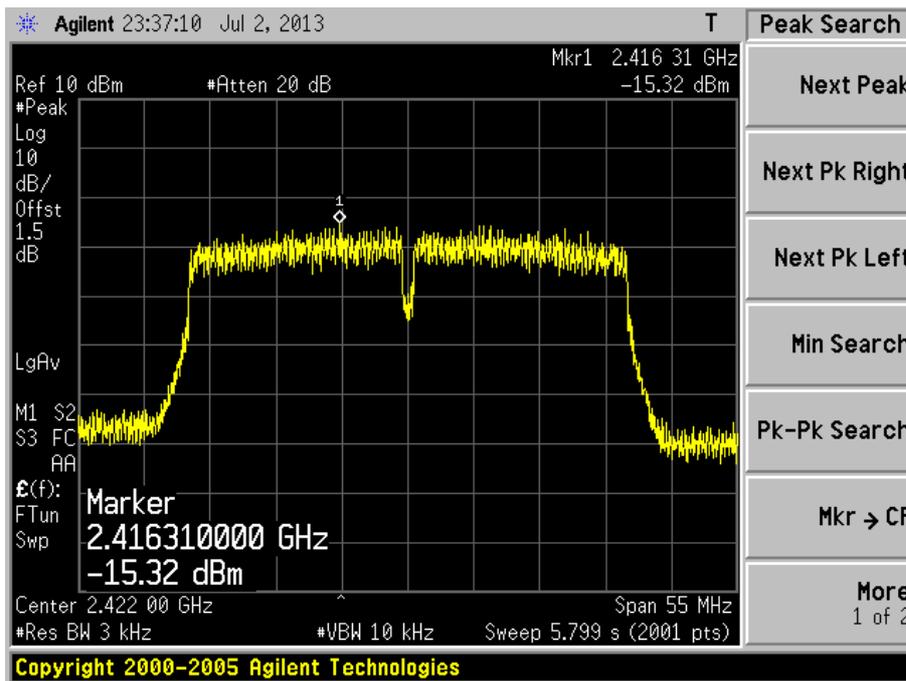
Channel 11 (2462MHz)



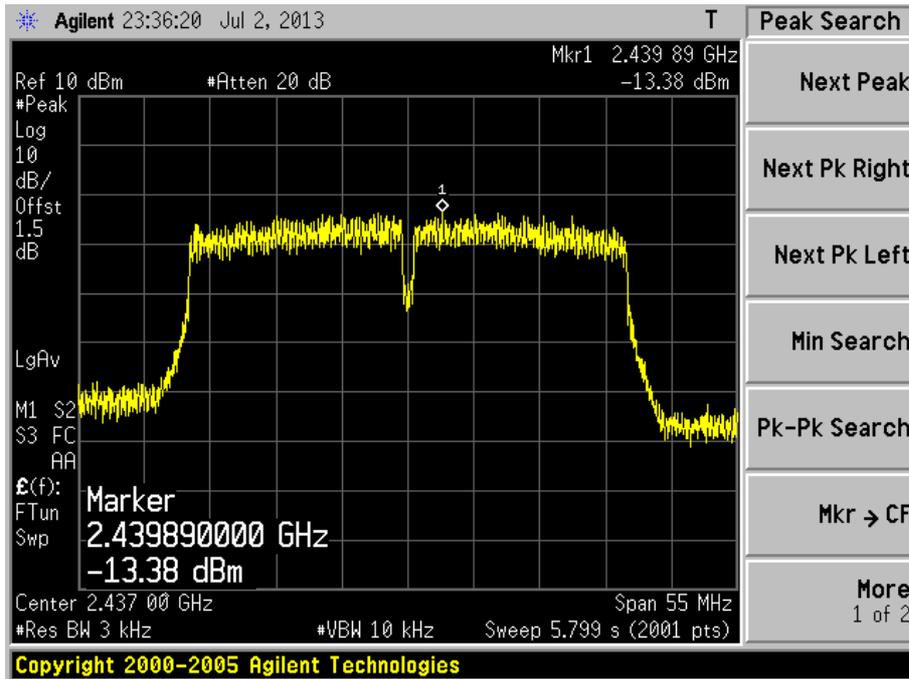
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
03	2422	-15.32	8	Pass
06	2437	-13.38	8	Pass
09	2452	-14.85	8	Pass

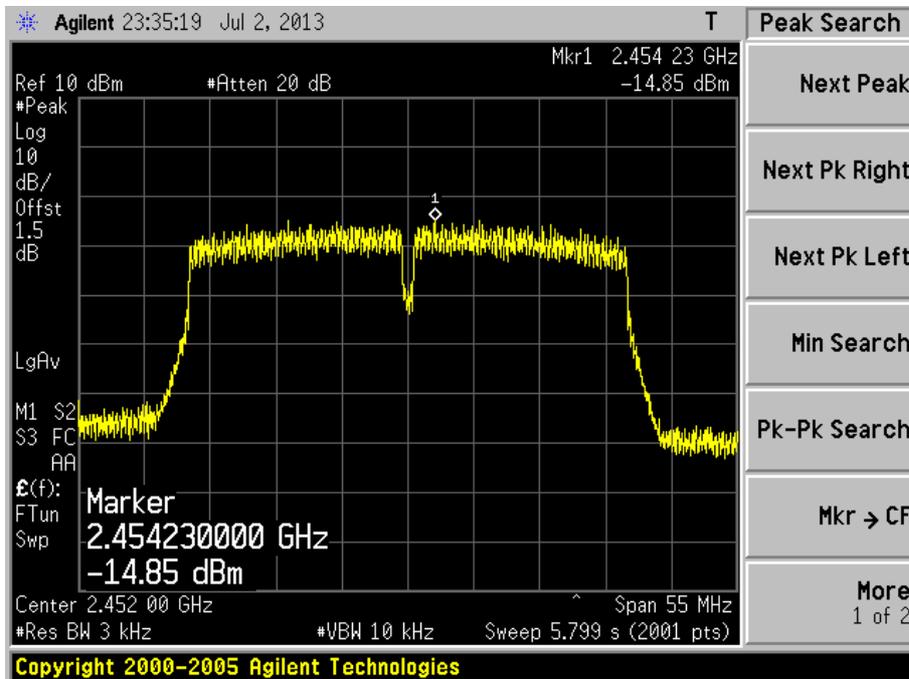
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



The End