



Test Report

FCC Part15 Subpart C

Product Name : WCDMA Digital Mobile Phone
Model No. : HUAWEI Y511-U251
FCC ID : QISY511-U251

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 : 03/07/2013
Test Date : 03/07/2013~ 10/07/2013
Issued Date : 19/07/2013
Report No. : 137S029R-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 : 19/07/2013

Report No. : 137S029R-RF-US-P06V01



Product Name : WCDMA Digital Mobile Phone

Applicant : HUAWEI TECHNOLOGIES CO.,LTD

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

Manufacturer : HUAWEI TECHNOLOGIES CO.,LTD

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

Model No. : HUAWEI Y511-U251

FCC ID : QISY511-U251

EUT Voltage : DC 3.7V

Brand Name : HUAWEI

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2012
ANSI C63.4: 2009, KDB558074

Test Result : Complied

Performed Location : Suzhou EMC Laboratory
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Hi-Tech Development Zone., Suzhou, China
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FCC Registration Number: 800392

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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 Y511-U251
Hardware Version	VER.A
Software Version	Y511-U25V100R001C465B101
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GPS	
Class of SRD	Class 3
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: -1.0dBi 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: -1.0dBi WCDMA Band V: -1.0dBi
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	-3.4dBi
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V4.0+HS
Type of modulation	V3.0+HS: GFSK, Pi/4 DQPSK, 8DPSK V4.0: GFSK
Data Rate	V3.0+HS: 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK) V4.0: 1Mbps(GFSK)
Antenna Gain	-1dBi
Components	
Battery #1	Brand Name: HUAWEI M/N: HB5V1 Rated Voltage and Capacitance: 3.7V/1730mAh S/N: BAACB22L24628462
Battery #2	Brand Name: HUAWEI M/N: HB5V1 Rated Voltage and Capacitance: 3.7V/1730mAh S/N: CABD220I20002237
Battery #3	Brand Name: HUAWEI M/N: HB5V1 Rated Voltage and Capacitance: 3.7V/1730mAh S/N: GAGD228Z20016724
Adapter #1	Brand Name: HUAWEI M/N: HW-050055U1W Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 550mA S/N: HKAD50574039
Adapter #2	Brand Name: HUAWEI M/N: HW-050055U1W Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 550mA S/N: BYAD31910840

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:

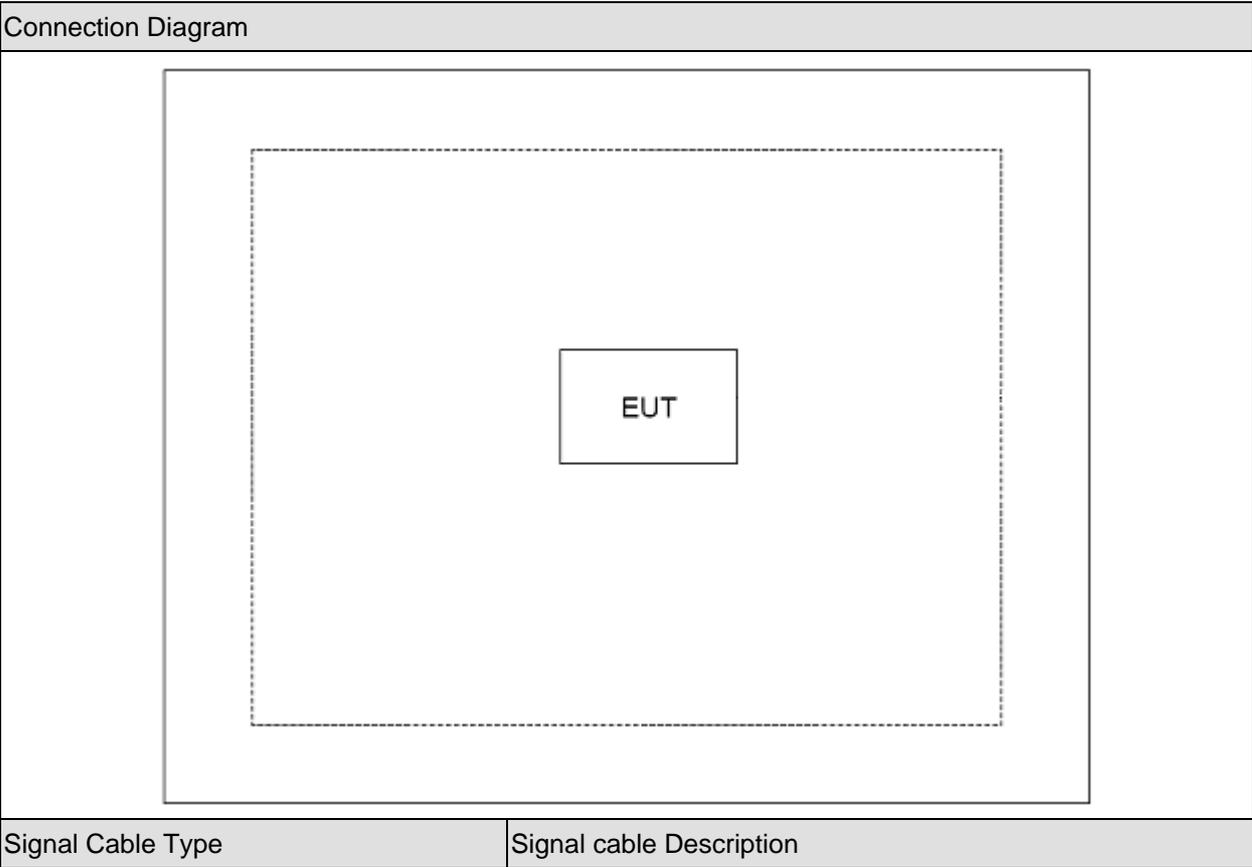
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 137S029R-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

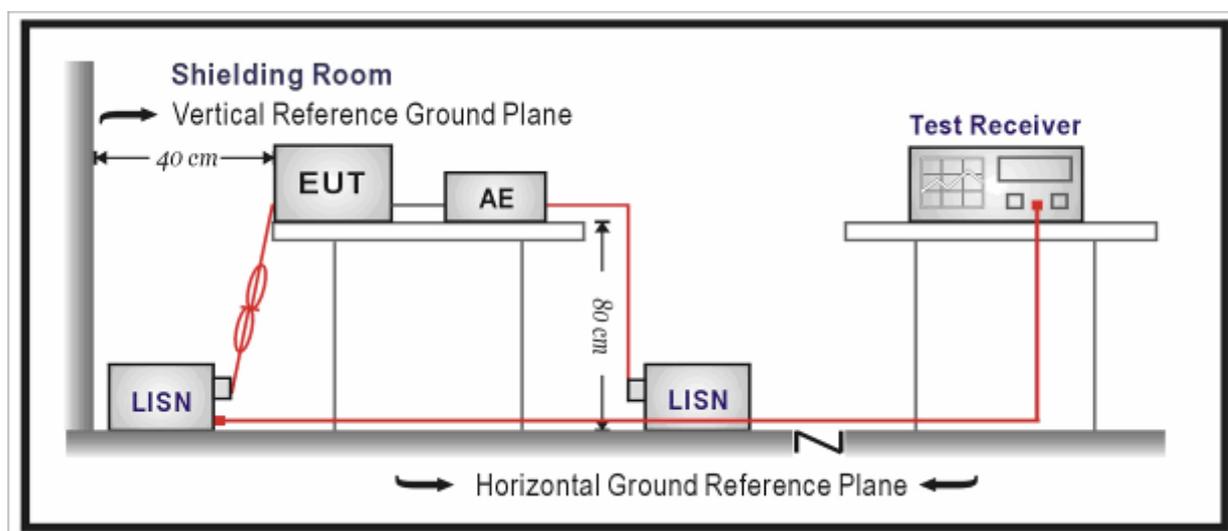
3.1. Test Equipment

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.

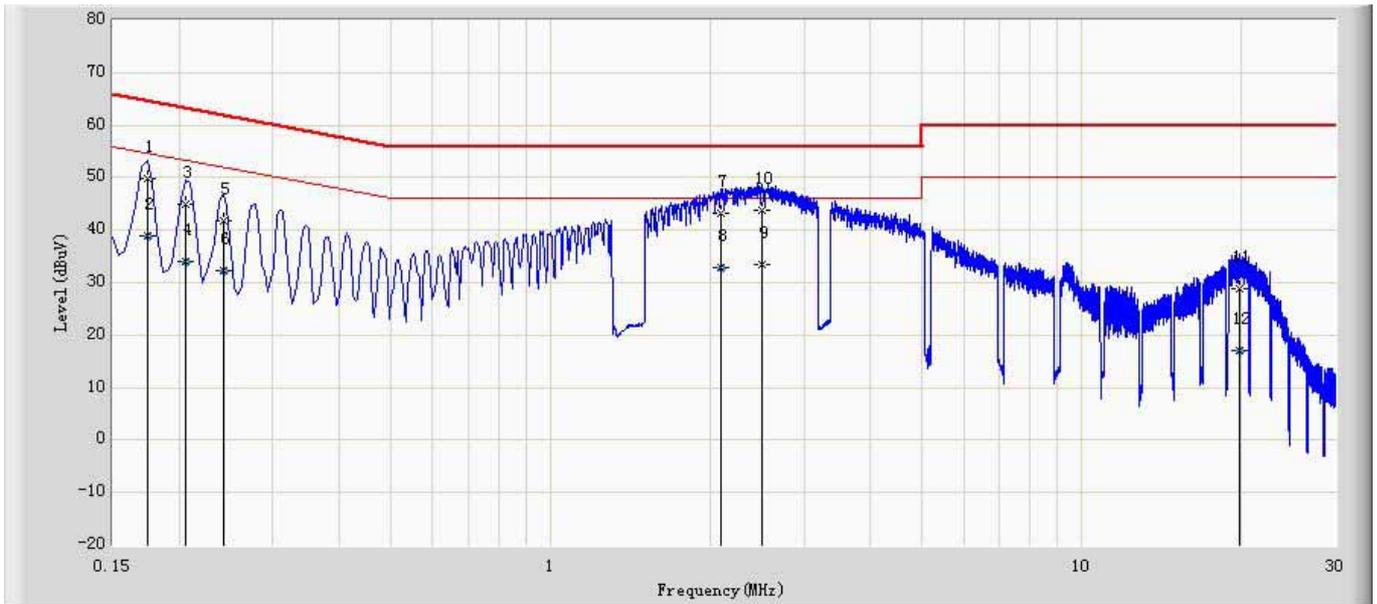
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

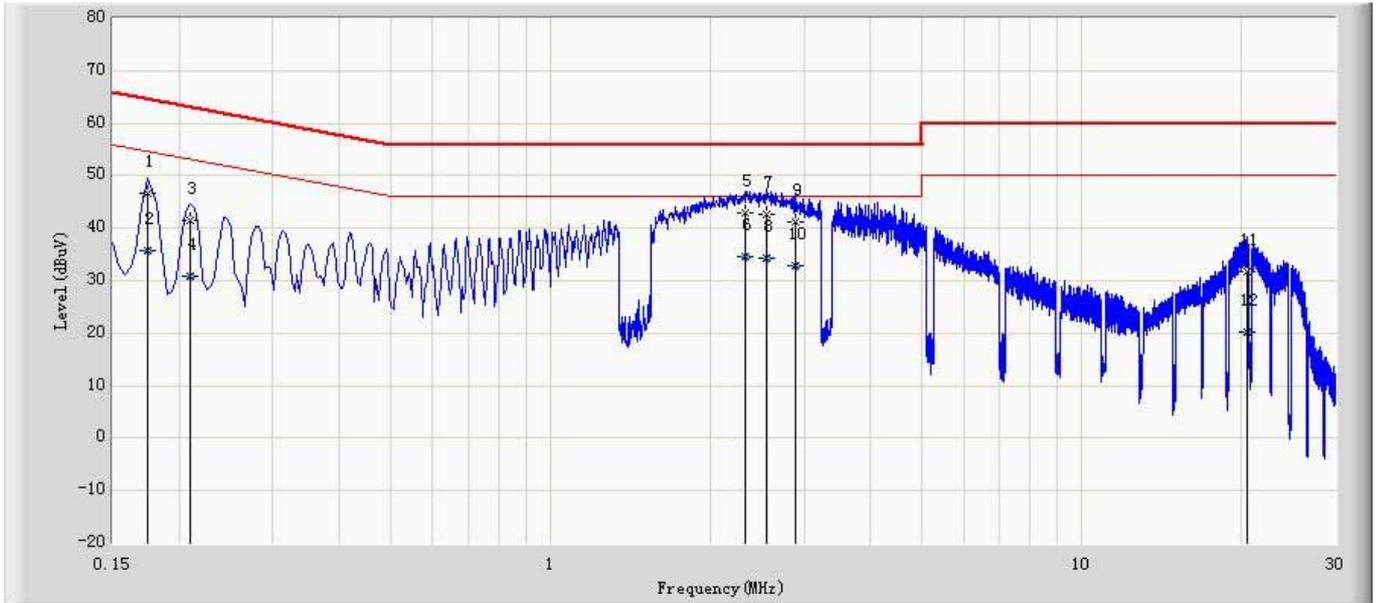
3.6. Test Result

Engineer: Jack	
Site: TR5	Time: 2013/07/15 - 16:13
Limit: FCC_Part15.207_CE_AC Power Class B	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		0.174	49.791	39.966	-14.977	64.767	9.825	QP
2		0.174	38.873	29.049	-15.894	54.767	9.825	AV
3		0.206	44.941	35.130	-18.424	63.365	9.811	QP
4		0.206	33.923	24.112	-19.442	53.365	9.811	AV
5		0.242	41.668	31.849	-20.359	62.027	9.819	QP
6		0.242	32.347	22.527	-19.681	52.027	9.819	AV
7		2.094	43.301	33.500	-12.699	56.000	9.801	QP
8		2.094	32.801	23.000	-13.199	46.000	9.801	AV
9		2.506	33.494	23.700	-22.506	56.000	9.794	QP
10	*	2.506	43.794	34.000	-12.206	56.000	9.794	QP
11		19.782	28.762	18.413	-31.238	60.000	10.349	QP
12		19.782	17.059	6.710	-32.941	50.000	10.349	AV

Engineer: Jack	
Site: TR5	Time: 2013/07/15 - 16:20
Limit: FCC_Part15.207_CE_AC Power Class B	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		0.174	46.598	36.774	-18.169	64.767	9.825	QP
2		0.174	35.780	25.956	-18.987	54.767	9.825	AV
3		0.210	41.502	31.692	-21.703	63.205	9.810	QP
4		0.210	30.931	21.121	-22.274	53.205	9.810	AV
5		2.334	42.811	33.000	-13.189	56.000	9.811	QP
6	*	2.334	34.611	24.800	-11.389	46.000	9.811	AV
7		2.546	42.517	32.700	-13.483	56.000	9.817	QP
8		2.546	34.417	24.600	-11.583	46.000	9.817	AV
9		2.890	41.117	31.300	-14.883	56.000	9.817	QP
10		2.890	32.917	23.100	-13.083	46.000	9.817	AV
11		20.422	31.715	21.356	-28.285	60.000	10.358	QP
12		20.422	20.133	9.774	-29.867	50.000	10.358	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

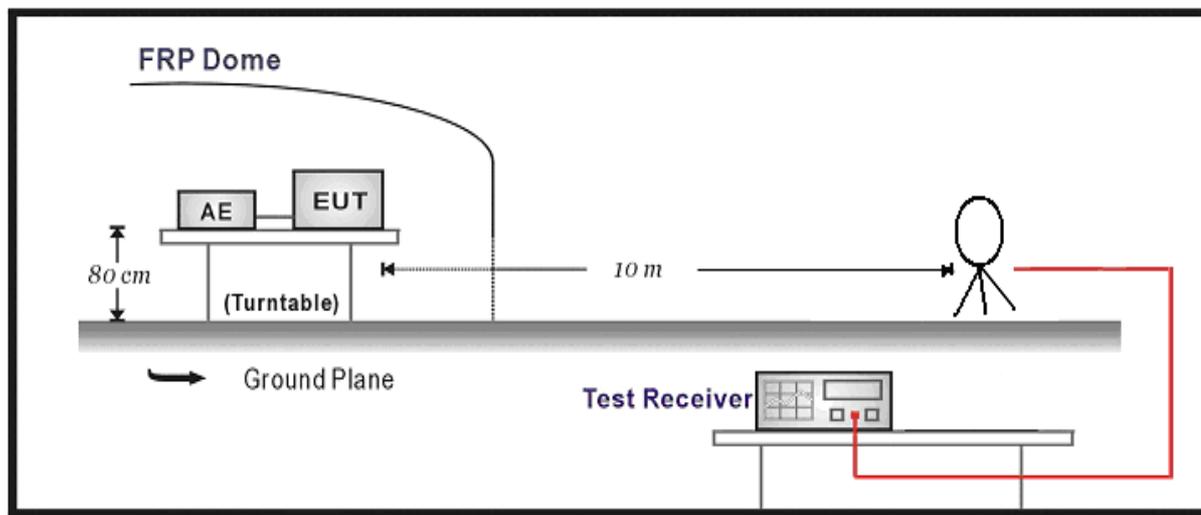
Radiated Emission / AC-5

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

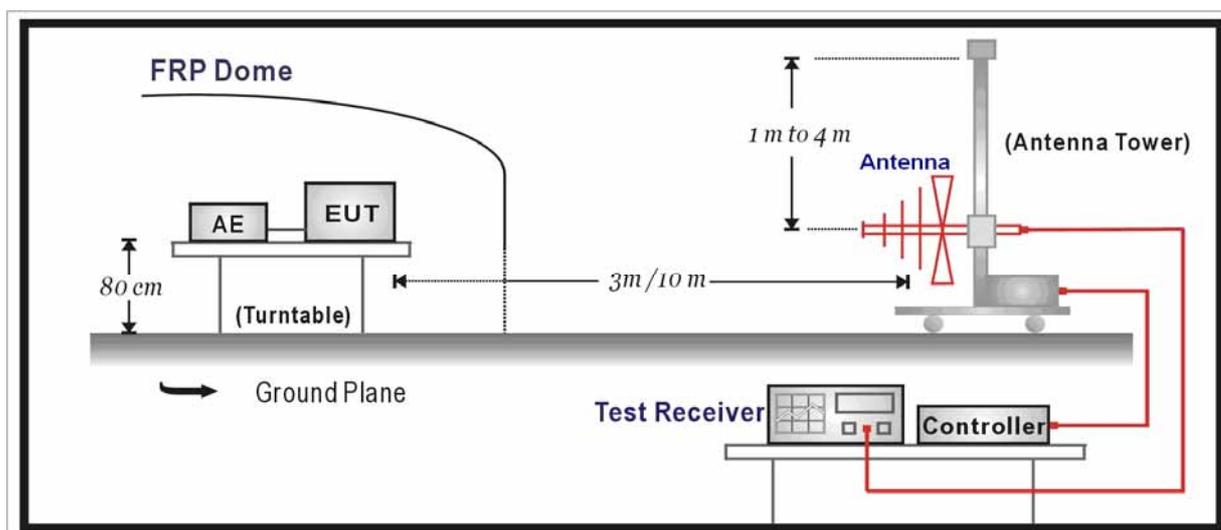
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

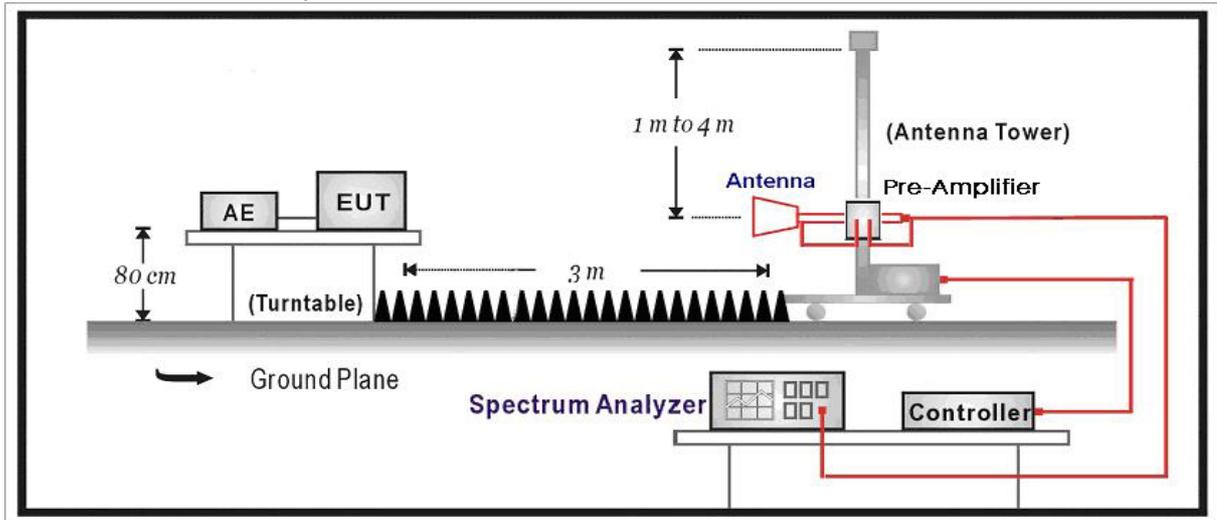
Below 30MHz Test Setup:



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 (μ V/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	46.8	-7.1	39.7	54(note3)	-14.3	PK
	V	4824.0	47.1	-7.2	39.9	54(note3)	-14.1	PK
	H	7236.0	43.2	-1.7	41.5	54(note3)	-12.5	PK
	V	7236.0	42.6	-1.8	40.8	54(note3)	-13.2	PK
	H	9648.0	39.1	4.3	43.4	54(note3)	-10.6	PK
	V	9648.0	38.9	4.4	43.3	54(note3)	-10.7	PK
6	H	4874.0	45.8	-7.0	38.8	54(note3)	-15.2	PK
	V	4874.0	46.8	-7.0	39.8	54(note3)	-14.2	PK
	H	7311.0	43.0	-1.6	41.4	54(note3)	-12.6	PK
	V	7311.0	42.7	-1.6	41.1	54(note3)	-12.9	PK
	H	9748.0	39.1	4.5	43.6	54(note3)	-10.4	PK
	V	9748.0	38.1	4.6	42.7	54(note3)	-11.3	PK
11	H	4924.0	47.5	-7.1	40.4	54(note3)	-13.6	PK
	V	4924.0	47.0	-7.0	40	54(note3)	-14	PK
	H	7386.0	42.6	-1.3	41.3	54(note3)	-12.7	PK
	V	7386.0	41.7	-1.3	40.4	54(note3)	-13.6	PK
	H	9848.0	38.6	4.9	43.5	54(note3)	-10.5	PK
	V	9848.0	37.4	5.0	42.4	54(note3)	-11.6	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	47.1	-7.1	40	54(note3)	-14	PK
	V	4824.0	47.0	-7.2	39.8	54(note3)	-14.2	PK
	H	7236.0	43.6	-1.7	41.9	54(note3)	-12.1	PK
	V	7236.0	42.6	-1.8	40.8	54(note3)	-13.2	PK
	H	9648.0	39.5	4.3	43.8	54(note3)	-10.2	PK
	V	9648.0	38.8	4.4	43.2	54(note3)	-10.8	PK
6	H	4874.0	45.9	-7.0	38.9	54(note3)	-15.1	PK
	V	4874.0	46.4	-7.0	39.4	54(note3)	-14.6	PK
	H	7311.0	43.3	-1.6	41.7	54(note3)	-12.3	PK
	V	7311.0	42.8	-1.6	41.2	54(note3)	-12.8	PK
	H	9748.0	39.4	4.5	43.9	54(note3)	-10.1	PK
	V	9748.0	39.2	4.6	43.8	54(note3)	-10.2	PK
11	H	4924.0	47.6	-7.1	40.5	54(note3)	-13.5	PK
	V	4924.0	46.6	-7.0	39.6	54(note3)	-14.4	PK
	H	7386.0	42.6	-1.3	41.3	54(note3)	-12.7	PK
	V	7386.0	42.7	-1.3	41.4	54(note3)	-12.6	PK
	H	9848.0	37.2	4.9	42.1	54(note3)	-11.9	PK
	V	9848.0	37.5	5.0	42.5	54(note3)	-11.5	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.

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	46.8	-7.1	39.7	54(note3)	-14.3	PK
	V	4824.0	47.1	-7.2	39.9	54(note3)	-14.1	PK
	H	7236.0	43.2	-1.7	41.5	54(note3)	-12.5	PK
	V	7236.0	42.6	-1.8	40.8	54(note3)	-13.2	PK
	H	9648.0	39.1	4.3	43.4	54(note3)	-10.6	PK
	V	9648.0	38.9	4.4	43.3	54(note3)	-10.7	PK
6	H	4874.0	45.8	-7.0	38.8	54(note3)	-15.2	PK
	V	4874.0	45.9	-7.0	38.9	54(note3)	-15.1	PK
	H	7311.0	42.5	-1.6	40.9	54(note3)	-13.1	PK
	V	7311.0	43.2	-1.6	41.6	54(note3)	-12.4	PK
	H	9748.0	38.3	4.5	42.8	54(note3)	-11.2	PK
	V	9748.0	38.0	4.6	42.6	54(note3)	-11.4	PK
11	H	4924.0	47.2	-7.1	40.1	54(note3)	-13.9	PK
	V	4924.0	46.6	-7.0	39.6	54(note3)	-14.4	PK
	H	7386.0	42.8	-1.3	41.5	54(note3)	-12.5	PK
	V	7386.0	42.4	-1.3	41.1	54(note3)	-12.9	PK
	H	9848.0	37.8	4.9	42.7	54(note3)	-11.3	PK
	V	9848.0	37.7	5.0	42.7	54(note3)	-11.3	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	46.8	-7.0	39.8	54(note3)	-14.2	PK
	V	4844.0	46.3	-7.1	39.2	54(note3)	-14.8	PK
	H	7266.0	42.5	-1.7	40.8	54(note3)	-13.2	PK
	V	7266.0	41.6	-1.7	39.9	54(note3)	-14.1	PK
	H	9688.0	39.0	4.5	43.5	54(note3)	-10.5	PK
	V	9688.0	38.0	4.5	42.5	54(note3)	-11.5	PK
6	H	4874.0	46.1	-7.0	39.1	54(note3)	-14.9	PK
	V	4874.0	46.1	-7.0	39.1	54(note3)	-14.9	PK
	H	7311.0	42.5	-1.6	40.9	54(note3)	-13.1	PK
	V	7311.0	42.4	-1.6	40.8	54(note3)	-13.2	PK
	H	9748.0	37.9	4.5	42.4	54(note3)	-11.6	PK
	V	9748.0	38.1	4.6	42.7	54(note3)	-11.3	PK
9	H	4904.0	46.4	-7.1	39.3	54(note3)	-14.7	PK
	V	4904.0	46.5	-7.0	39.5	54(note3)	-14.5	PK
	H	7356.0	42.8	-1.4	41.4	54(note3)	-12.6	PK
	V	7356.0	41.8	-1.4	40.4	54(note3)	-13.6	PK
	H	9808.0	37.4	4.8	42.2	54(note3)	-11.8	PK
	V	9808.0	38.2	4.9	43.1	54(note3)	-10.9	PK

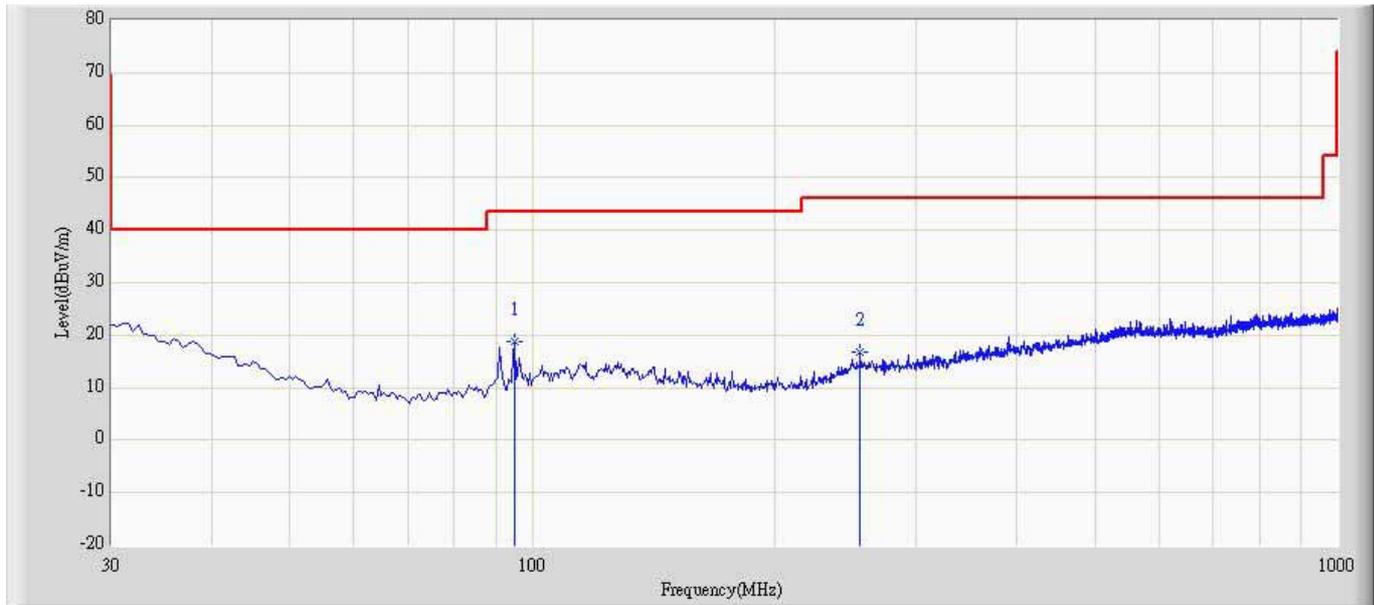
Note: 1. Measure Level = Reading Level + Factor.

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.

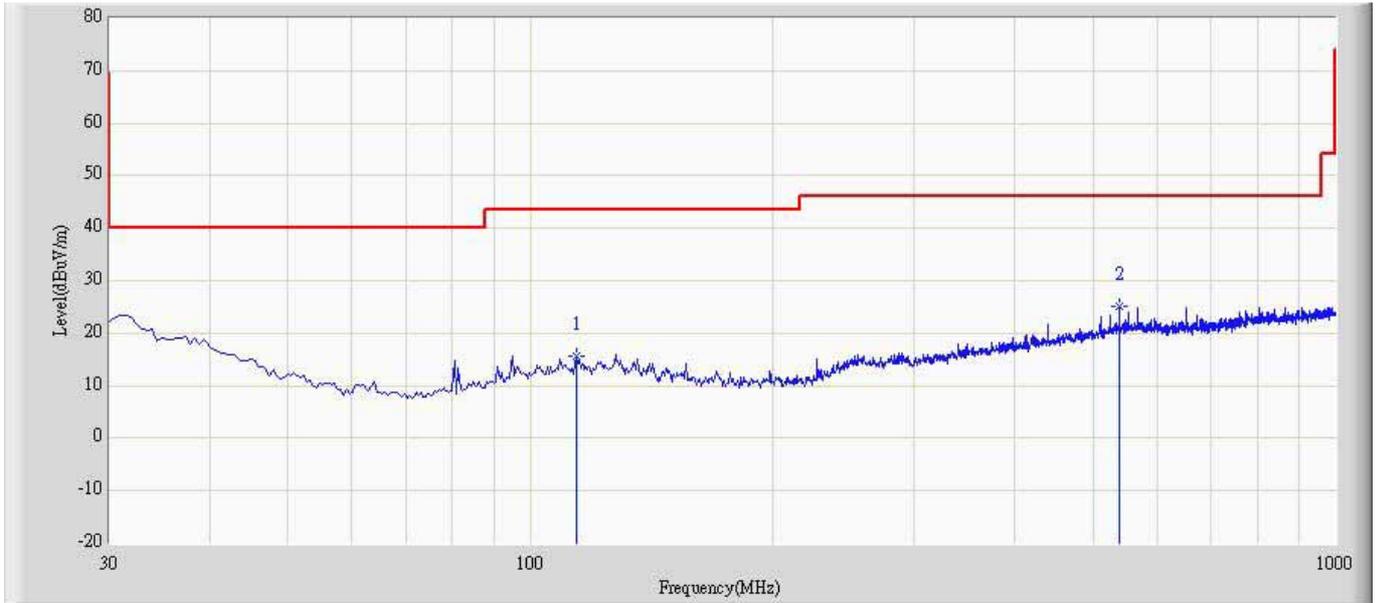
The worst case of Radiated Emission below 1GHz:

Engineer: Milo	
Site: AC2	Time: 2013/07/10 - 14:56
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	*	94.990	18.717	8.038	-24.783	43.500	10.679	QP
2		255.525	16.892	2.401	-29.108	46.000	14.491	QP

Engineer: Milo	
Site: AC2	Time: 2013/07/10 - 15:34
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		113.905	15.665	2.990	-27.835	43.500	12.675	QP
2	*	539.250	25.255	4.343	-20.745	46.000	20.912	QP

5. RF Antenna Conducted Spurious

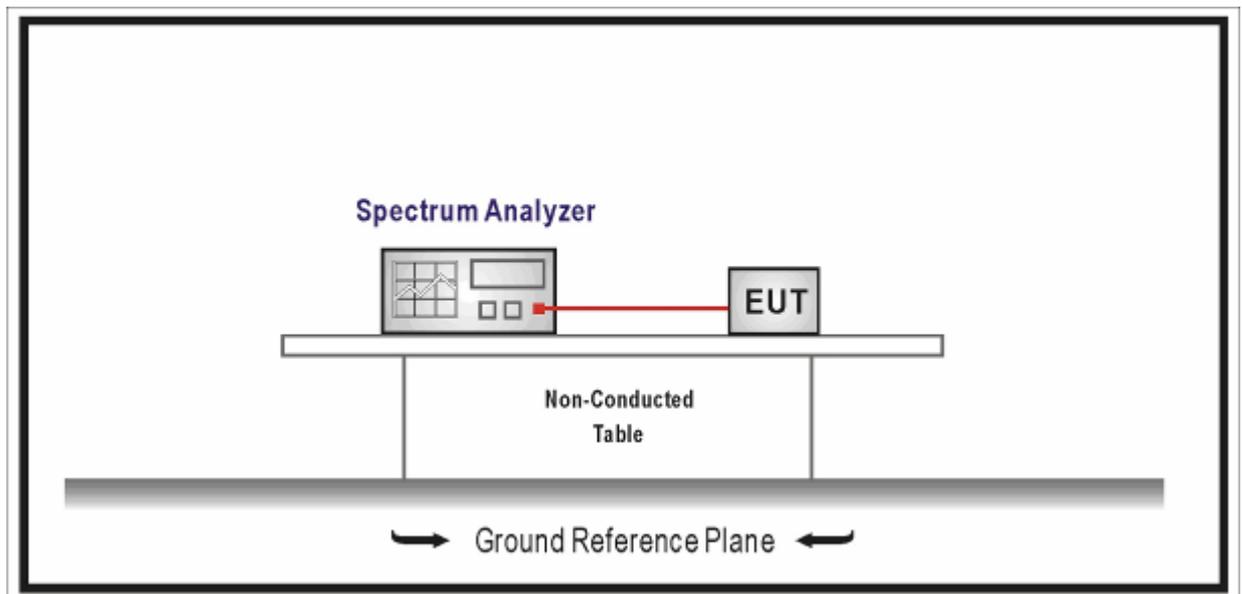
5.1. Test Equipment

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.

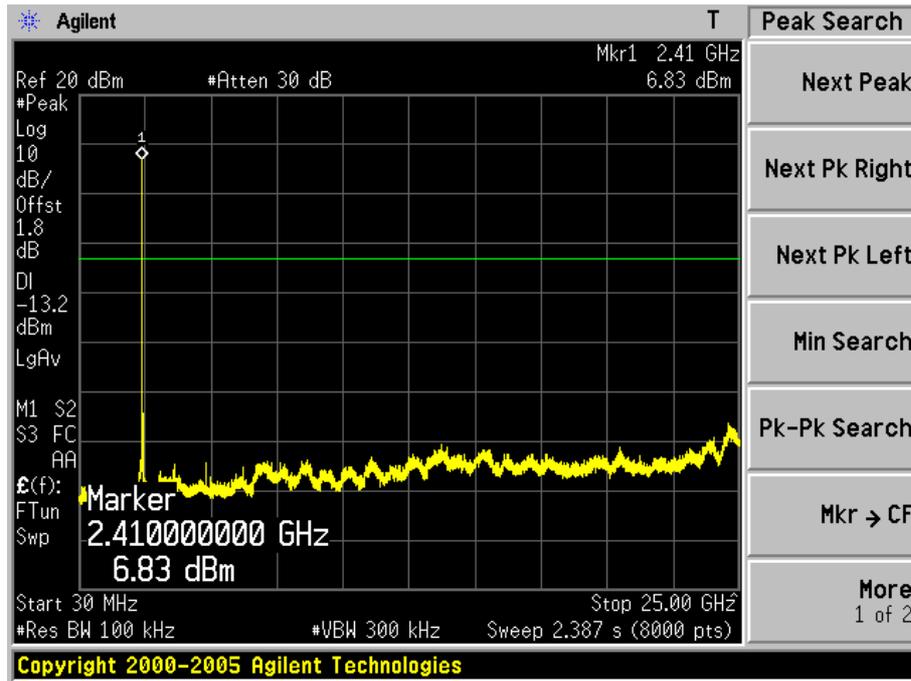
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

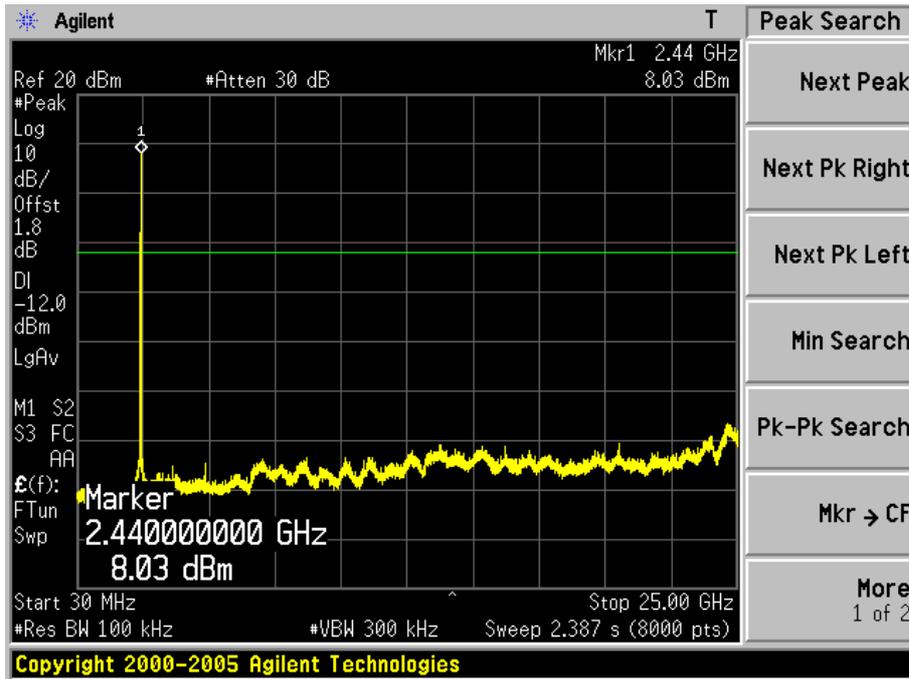
5.6. Test Result

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

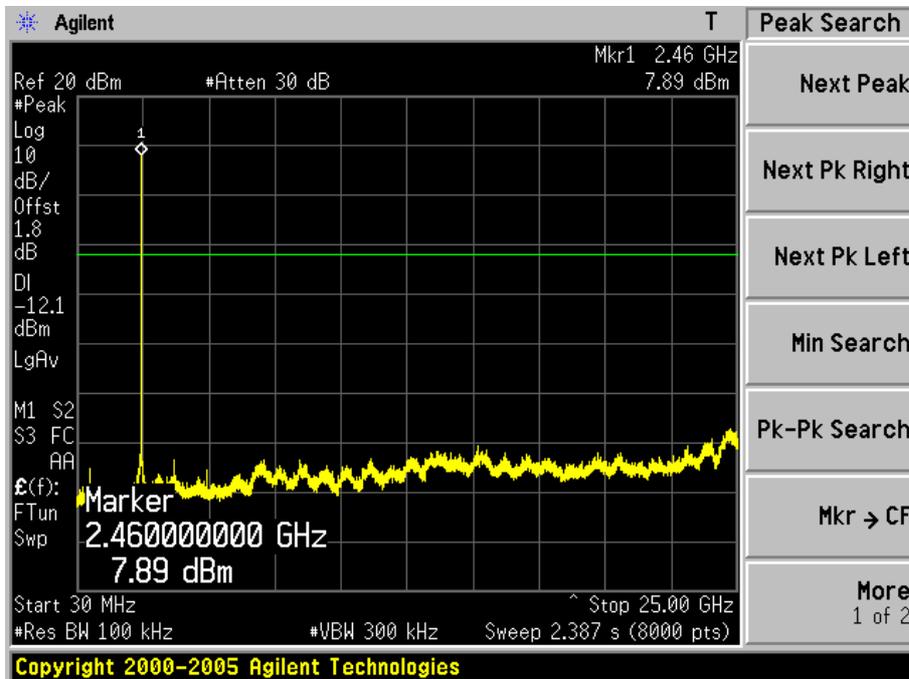
Channel 01 (2412MHz)



Channel 06 (2437MHz)

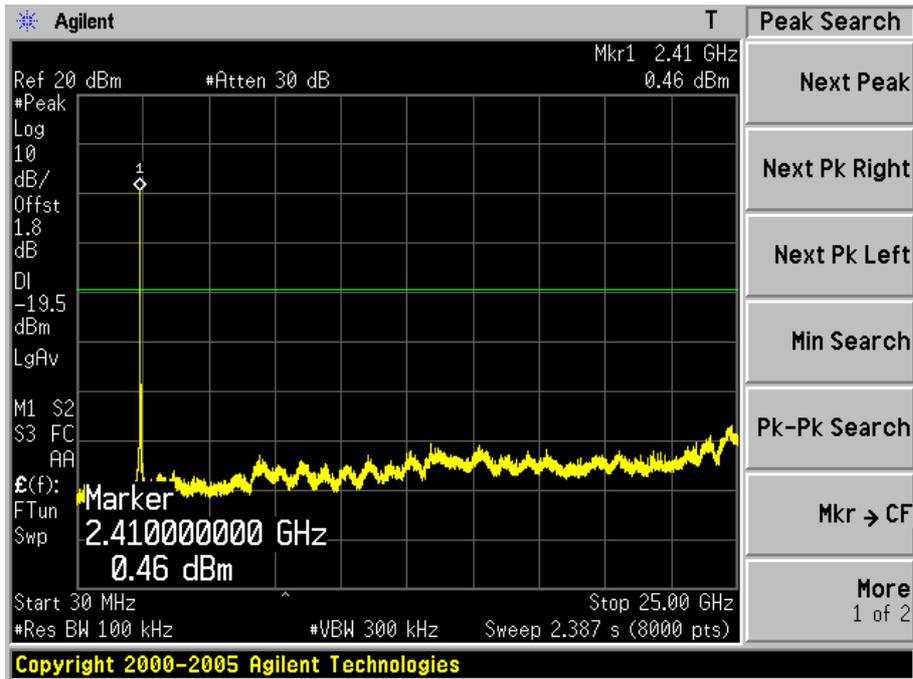


Channel 11 (2462MHz)

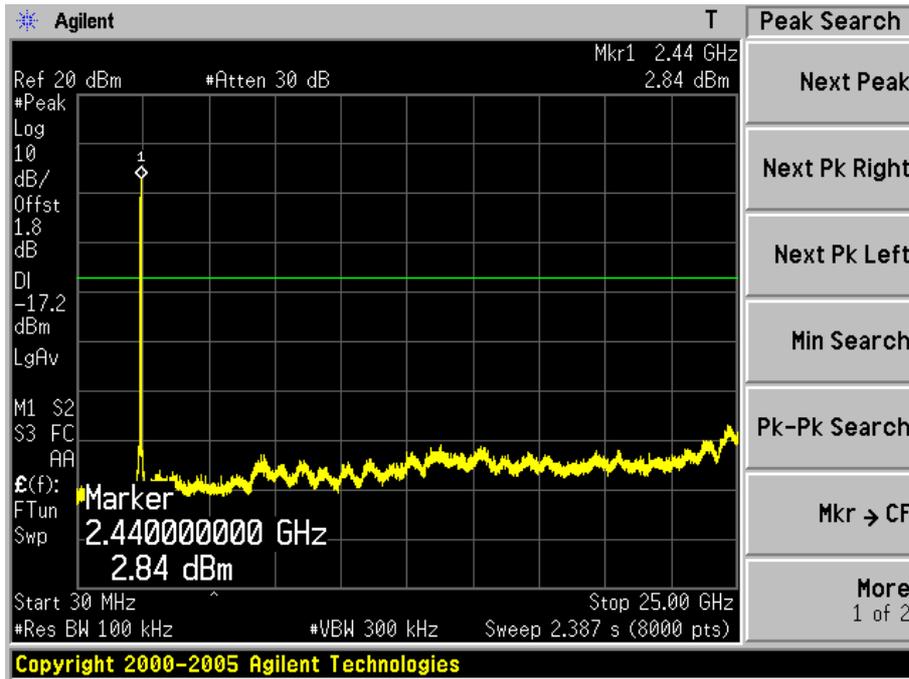


Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g

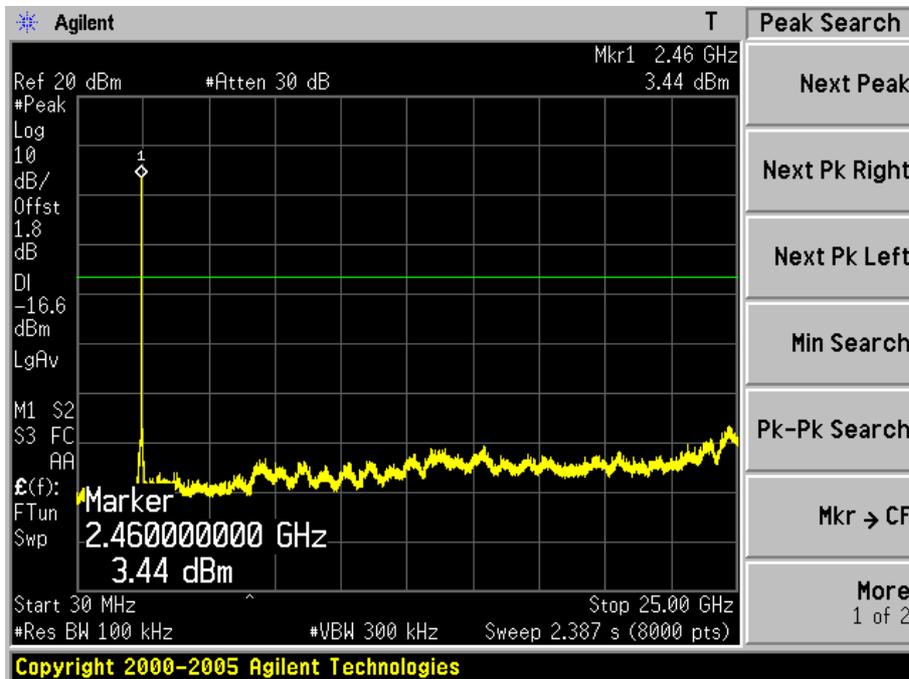
Channel 01 (2412MHz)



Channel 06 (2437MHz)

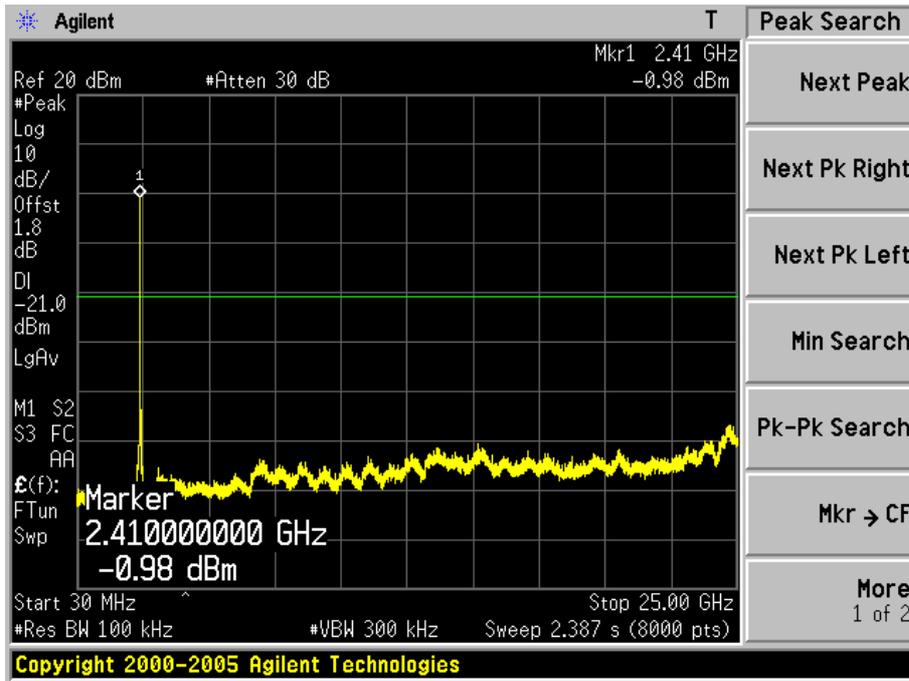


Channel 11 (2462MHz)

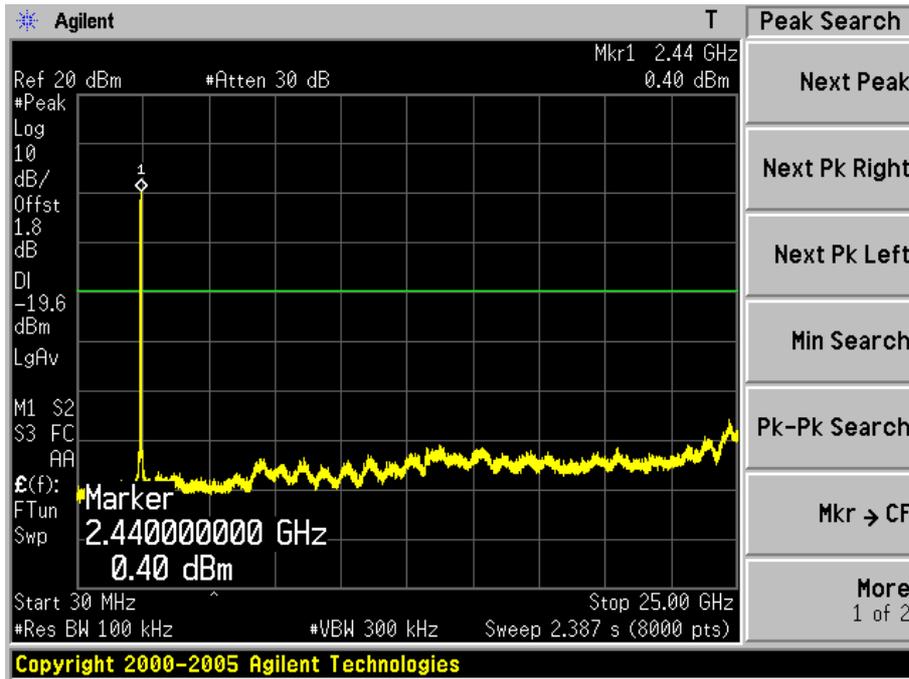


Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

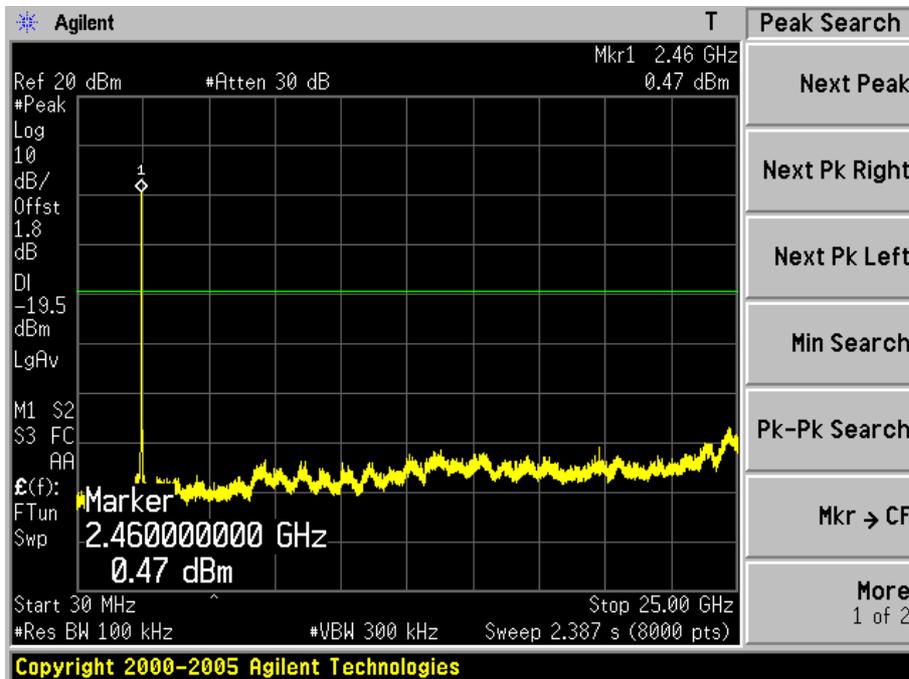
Channel 01 (2412MHz)



Channel 06 (2437MHz)

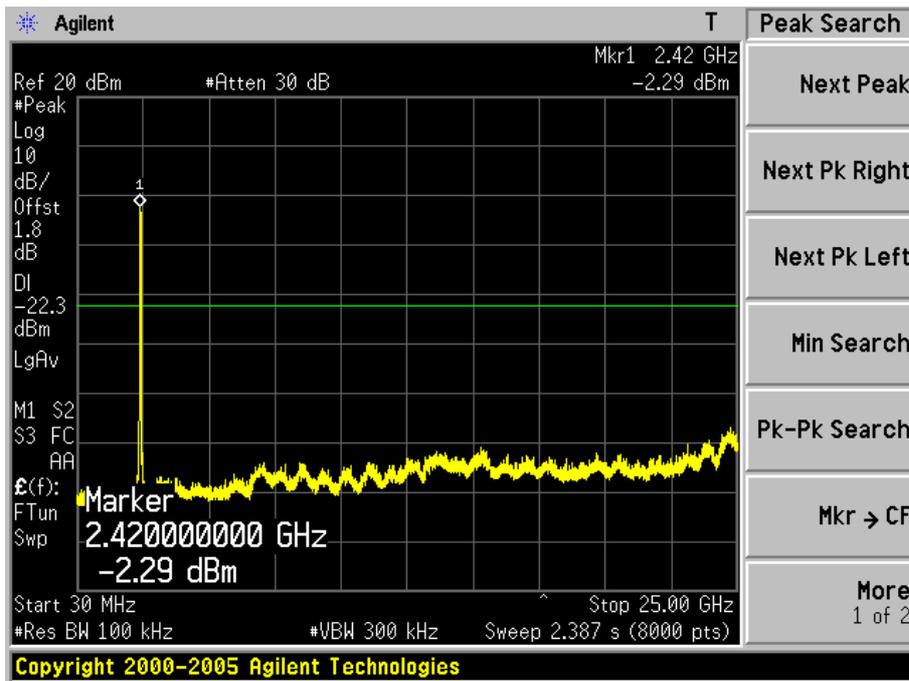


Channel 11 (2462MHz)

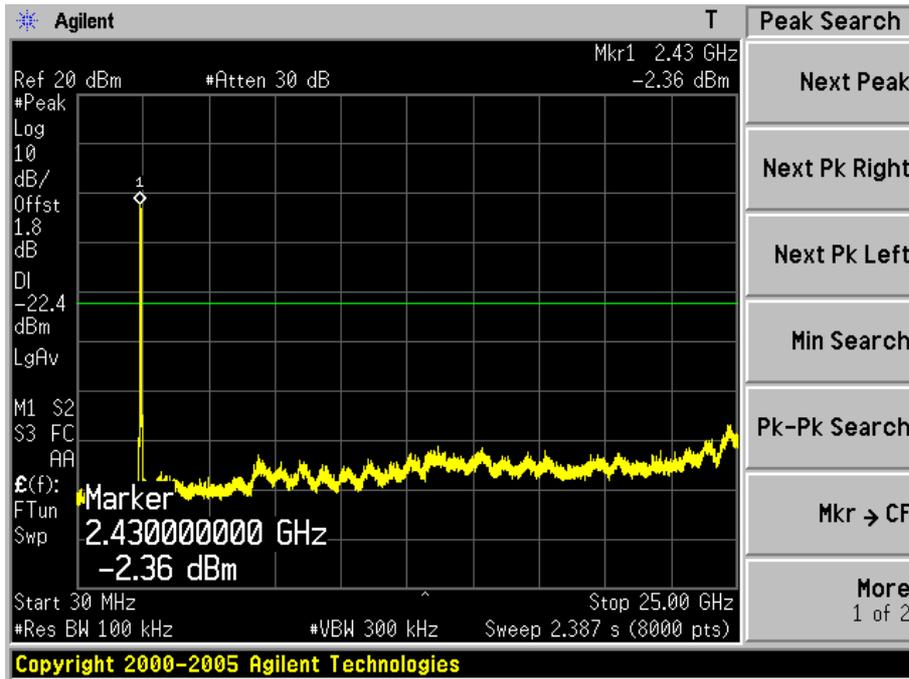


Product	:	WCDMA Digital Mobile Phone
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

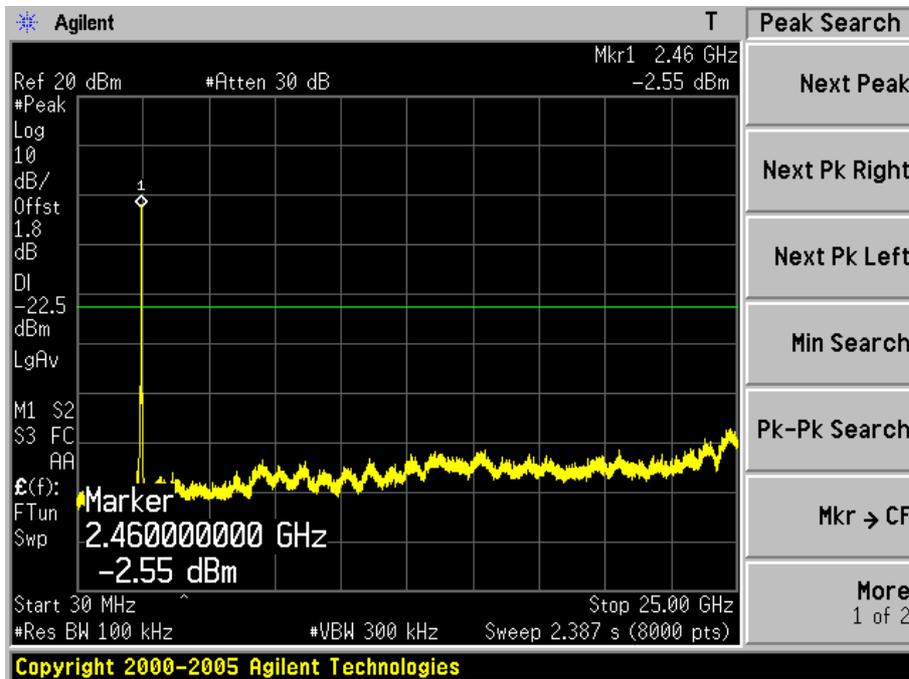
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 9 (2452MHz)



6. Radiated Emission Band Edge

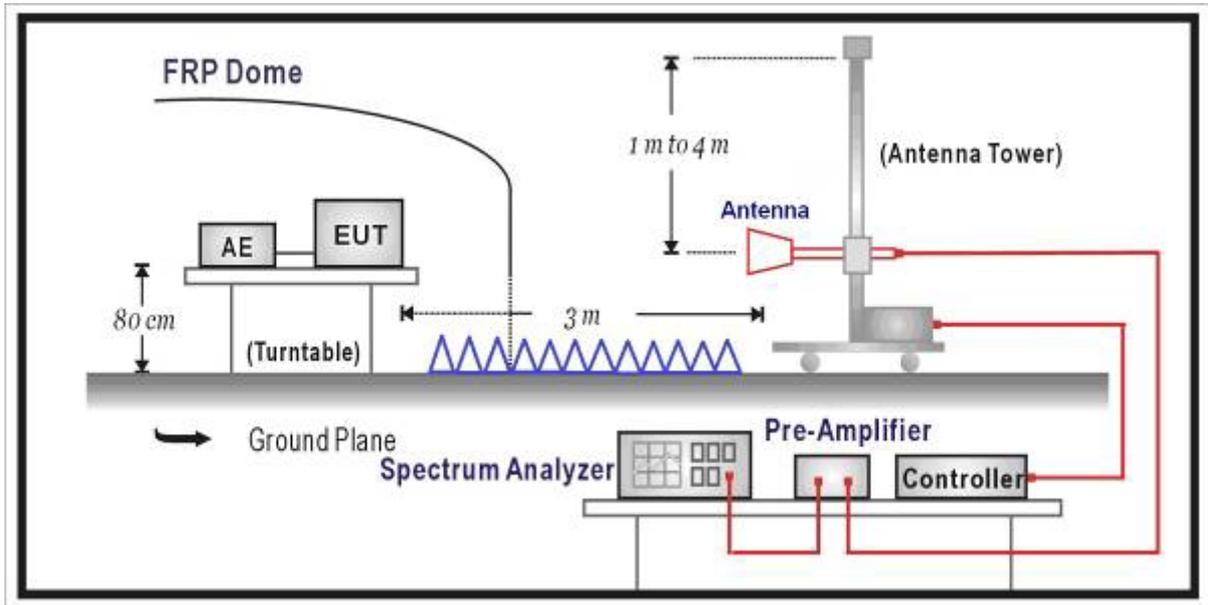
6.1. Test Equipment

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:

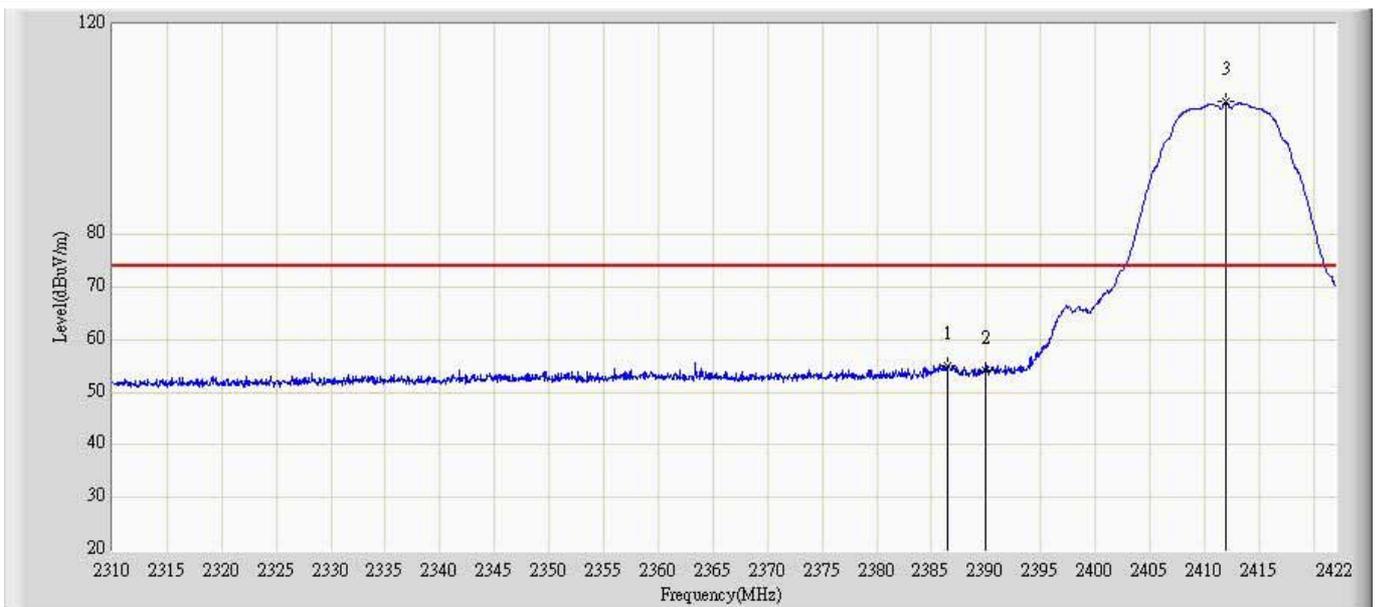
Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

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

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

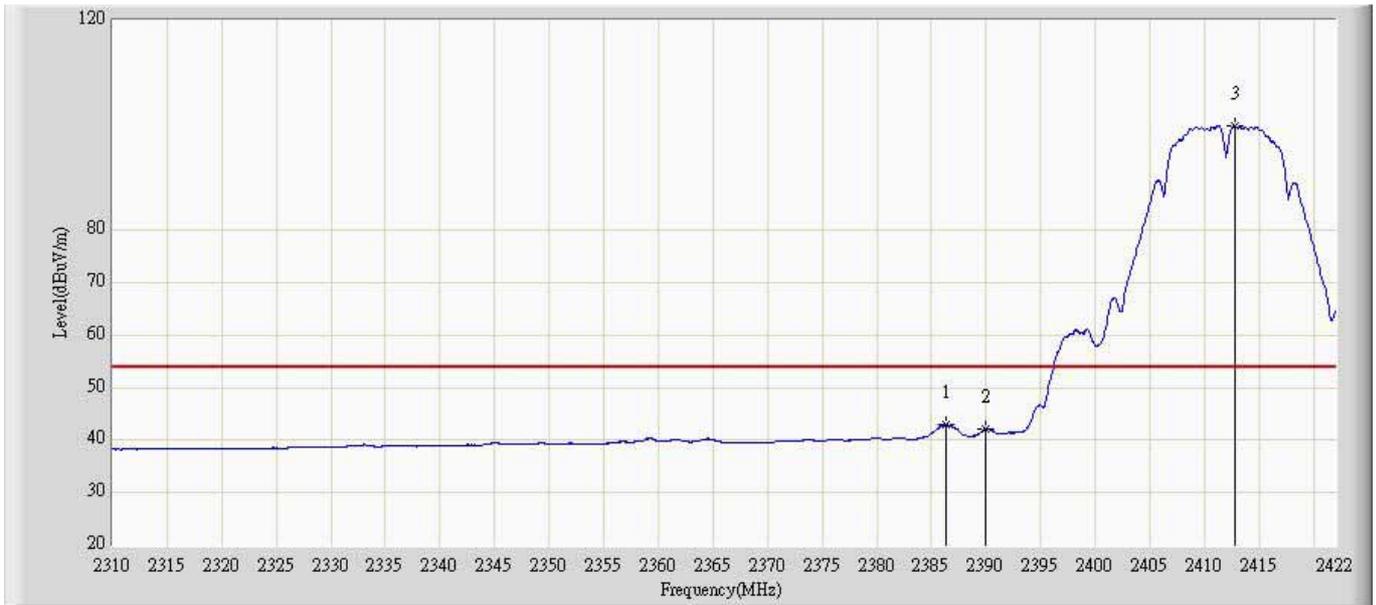
In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice will be followed.

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:07
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	



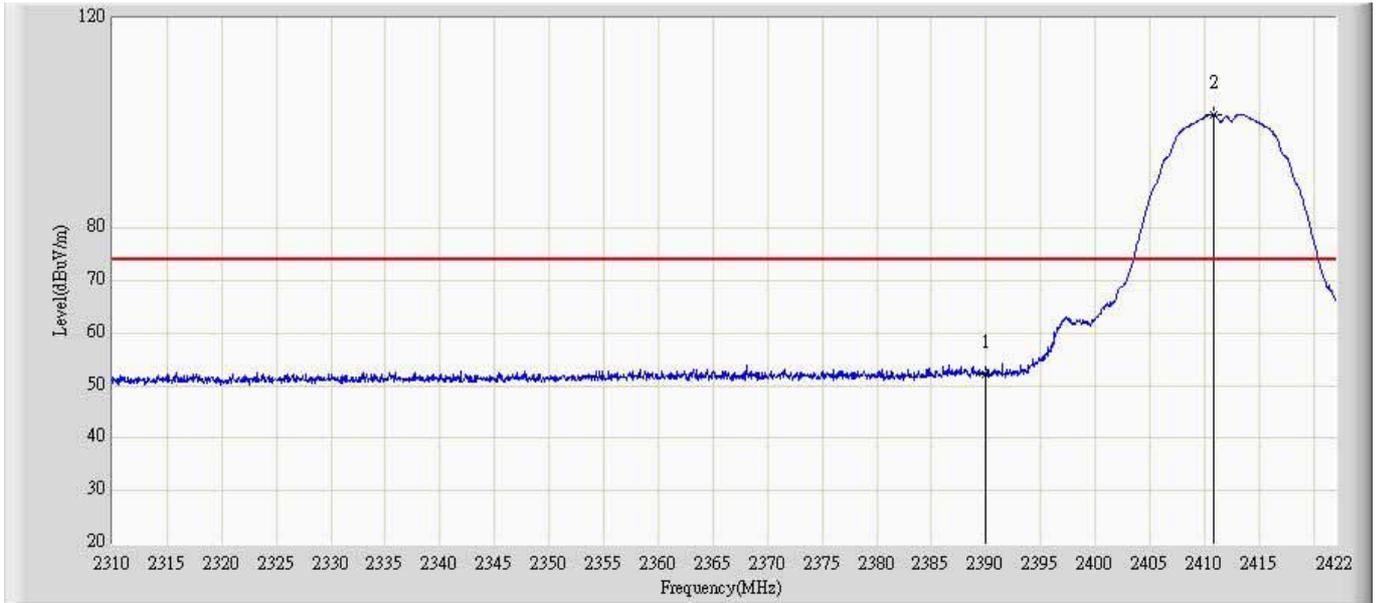
No	Flag	Marker	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2386.440	54.952	17.824	-19.048	74.000	37.128	PK
2			2390.000	54.271	17.112	-19.729	74.000	37.159	PK
3		*	2411.976	105.306	67.953	N/A	N/A	37.352	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:11
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 2412MHz by 802.11b	



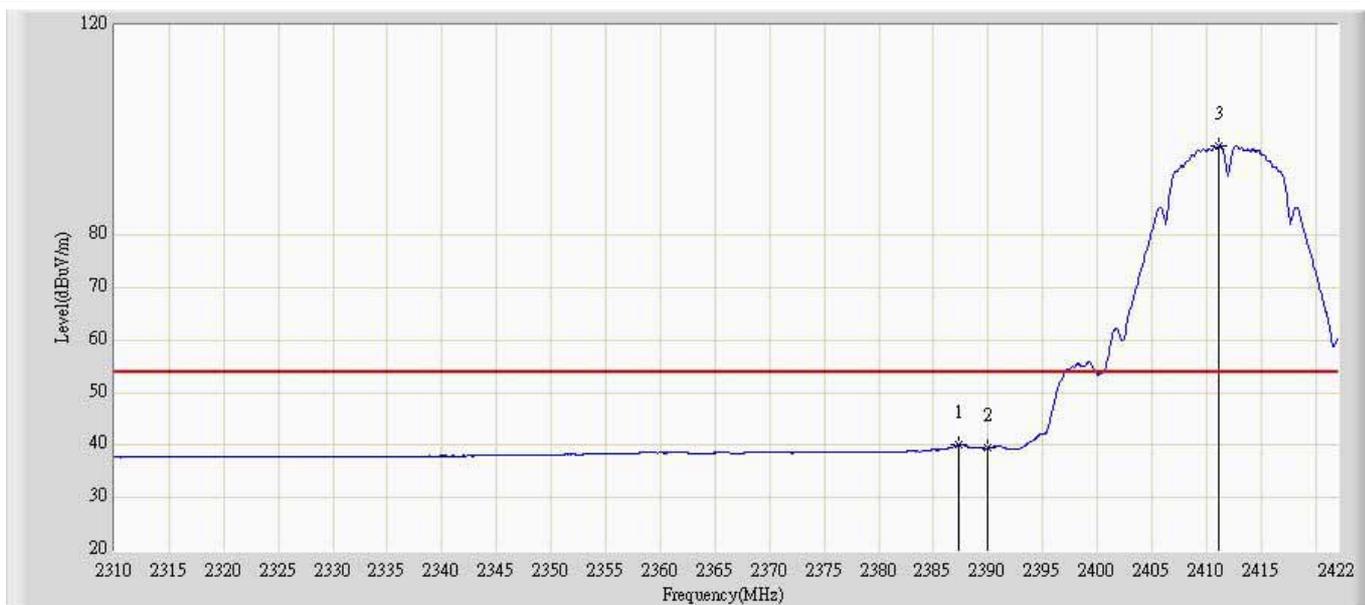
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2386.384	42.950	5.823	-11.050	54.000	37.127	AV
2			2390.000	42.138	4.979	-11.862	54.000	37.159	AV
3		*	2412.760	99.979	62.620	N/A	N/A	37.359	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:13
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: Mode1: Transmit at channel 2412MHz by 802.11b	



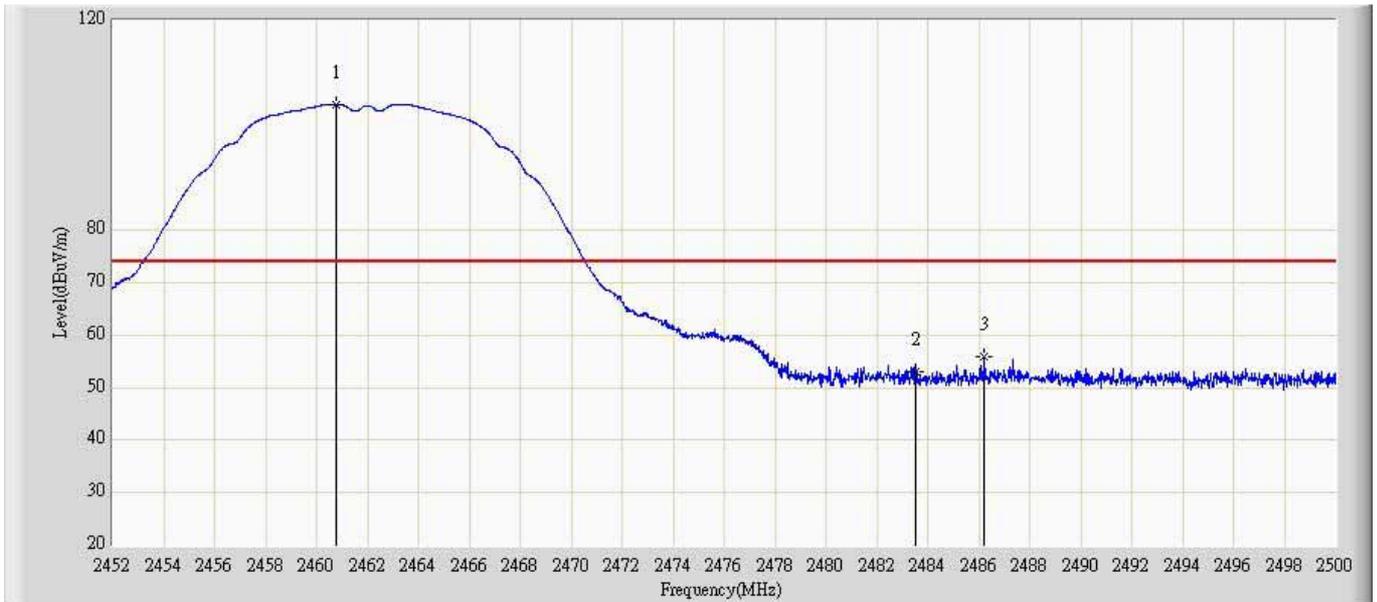
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	52.213	15.714	-21.787	74.000	36.499	PK
2		*	2410.800	101.604	65.005	N/A	N/A	36.599	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:16
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	



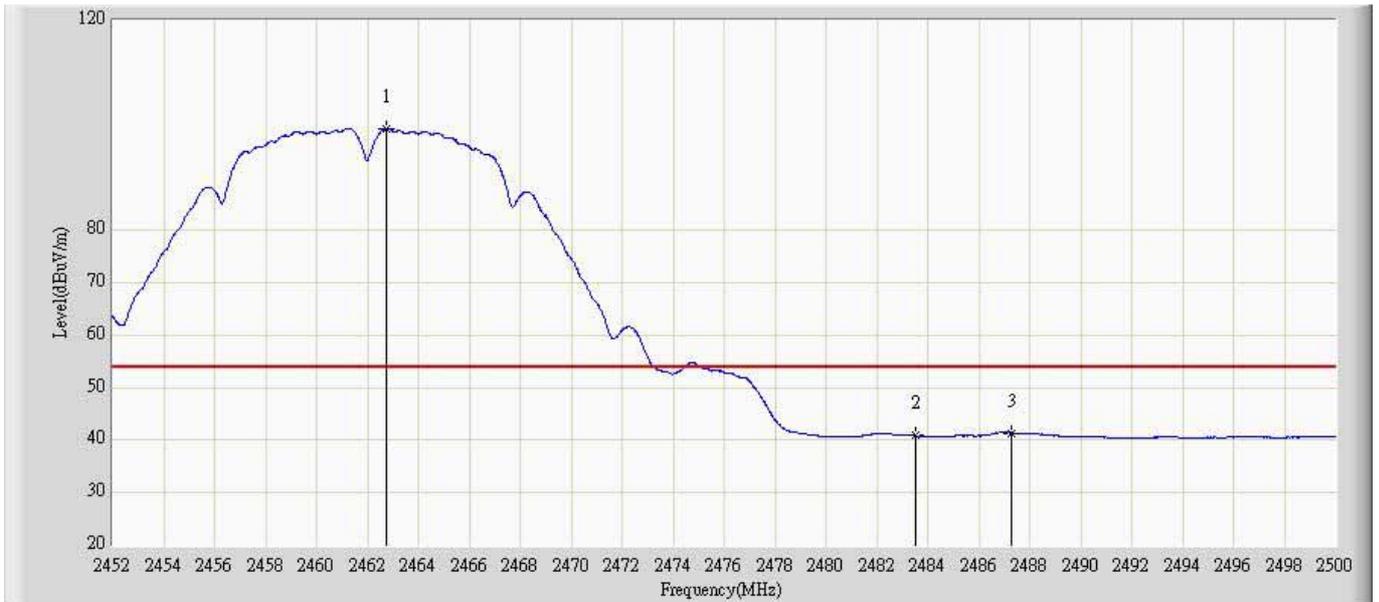
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2387.280	40.093	3.607	-13.907	54.000	36.486	AV
2			2390.000	39.427	2.928	-14.573	54.000	36.499	AV
3		*	2411.136	96.991	60.390	N/A	N/A	36.600	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:17
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	



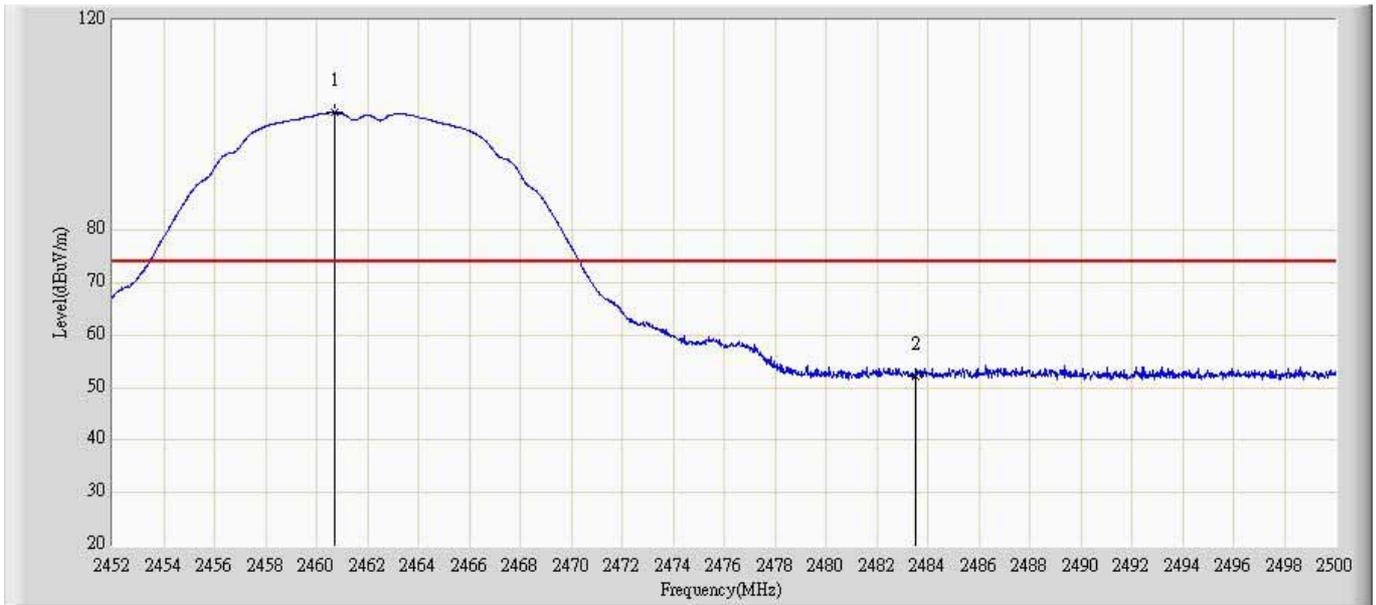
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.784	104.015	66.244	N/A	N/A	37.771	PK
2			2483.500	53.054	15.084	-20.946	74.000	37.969	PK
3			2486.224	55.907	17.913	-18.093	74.000	37.993	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:20
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		*	2462.752	99.388	61.600	N/A	N/A	37.788	AV
2			2483.500	40.896	2.926	-13.104	54.000	37.969	AV
3			2487.280	41.383	3.380	-12.617	54.000	38.003	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:21
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	



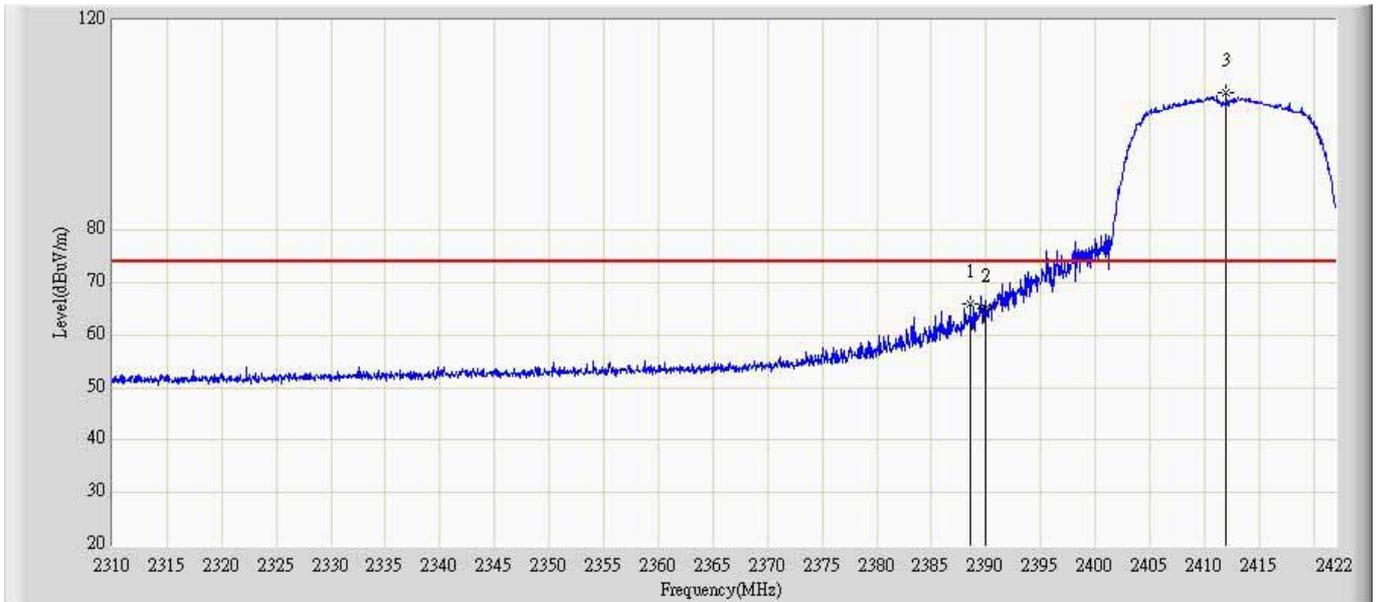
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.712	102.392	65.564	N/A	N/A	36.827	PK
2			2483.500	52.252	15.316	-21.748	74.000	36.935	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:23
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	



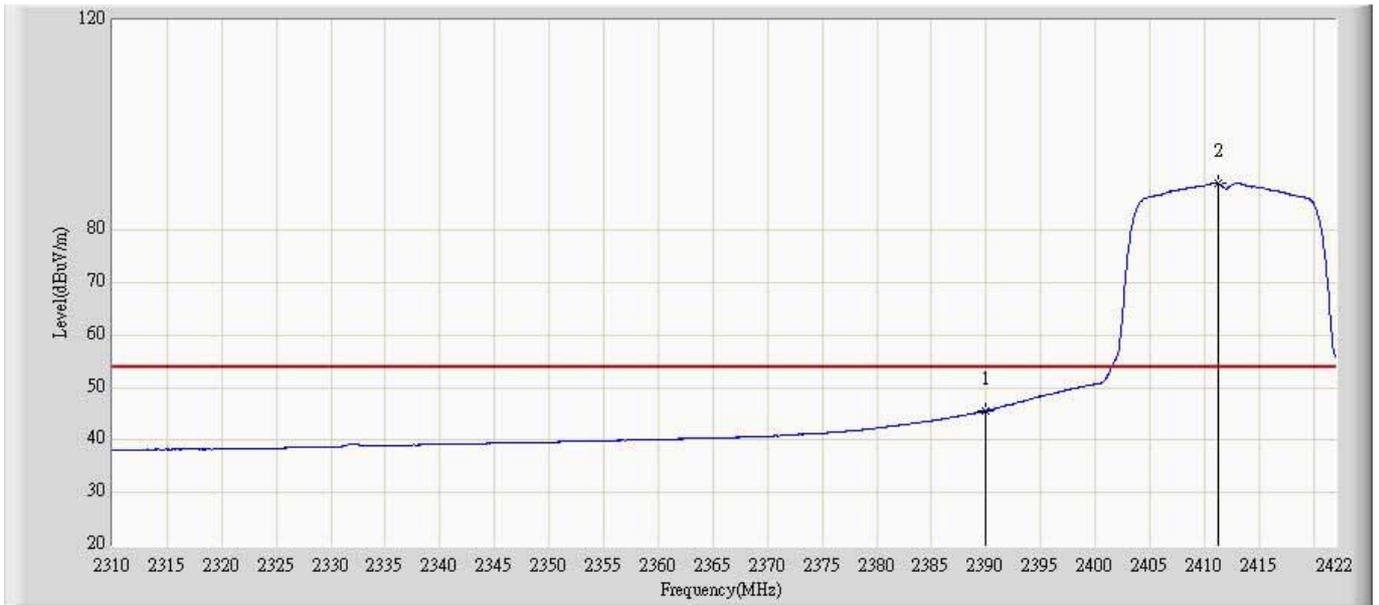
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.632	97.494	60.658	N/A	N/A	36.836	AV
2			2483.500	39.625	2.689	-14.375	54.000	36.935	AV
3			2487.352	40.046	3.092	-13.954	54.000	36.954	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:24
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	



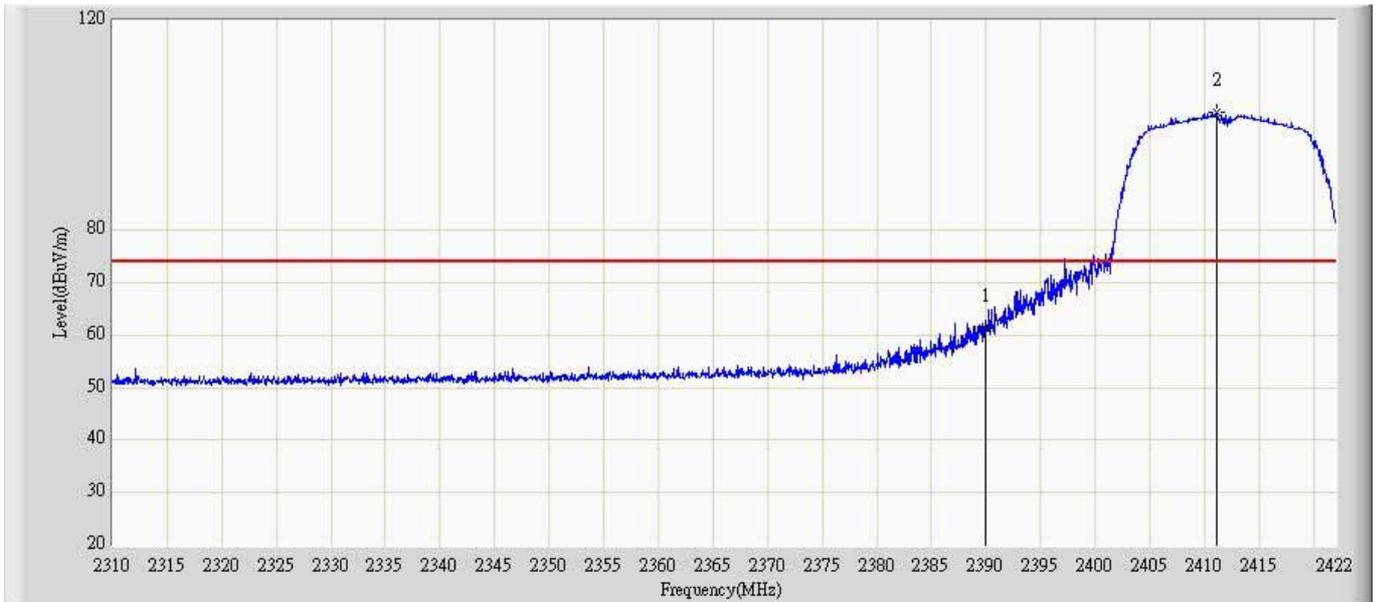
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.624	65.926	28.779	-8.074	74.000	37.147	PK
2			2390.000	64.990	27.831	-9.010	74.000	37.159	PK
3		*	2412.032	106.304	68.951	N/A	N/A	37.353	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:26
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: Mode2: Transmit at channel 2412MHz by 802.11g	



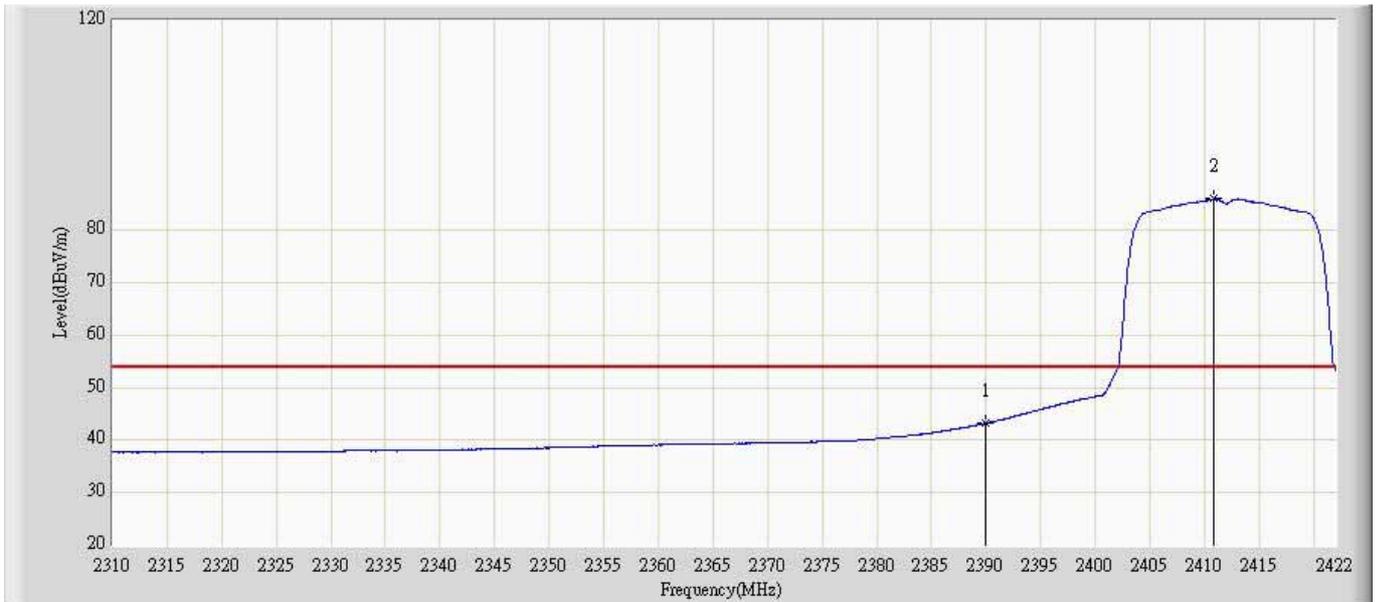
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	45.610	8.451	-8.390	54.000	37.159	AV
2		*	2411.304	88.839	51.492	N/A	N/A	37.346	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:27
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: Mode2: Transmit at channel 2412MHz by 802.11g	



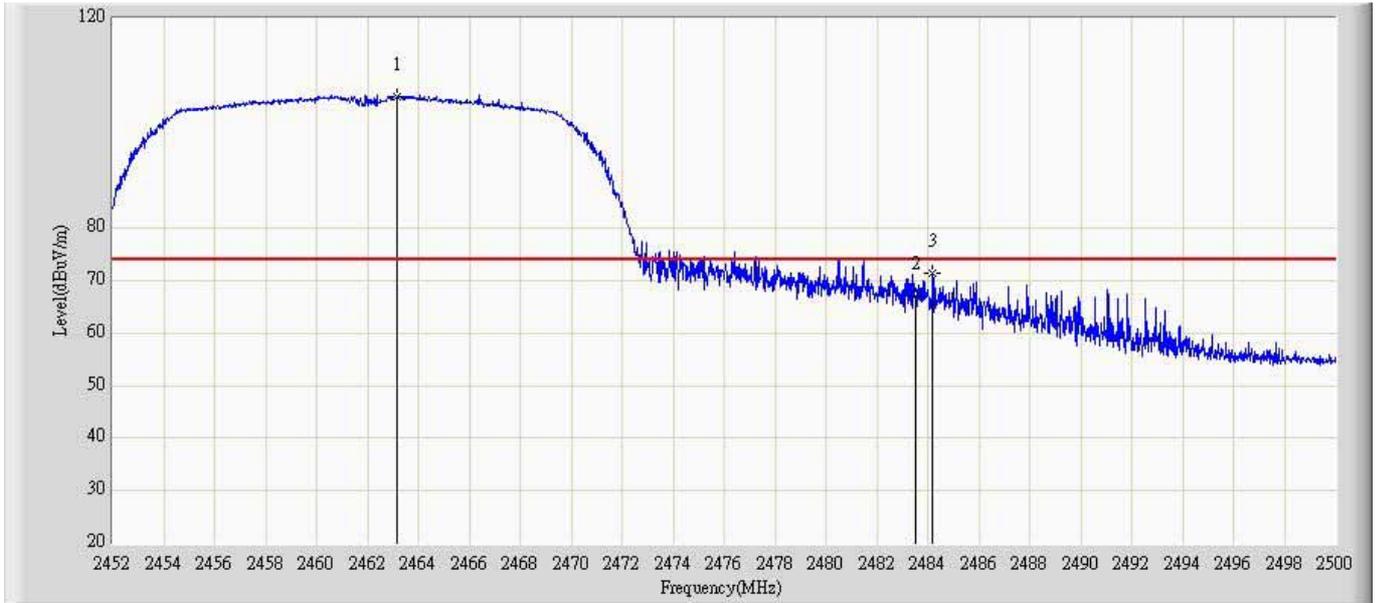
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	61.452	24.953	-12.548	74.000	36.499	PK
2		*	2411.192	102.561	65.960	N/A	N/A	36.601	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:30
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: Mode2: Transmit at channel 2412MHz by 802.11g	



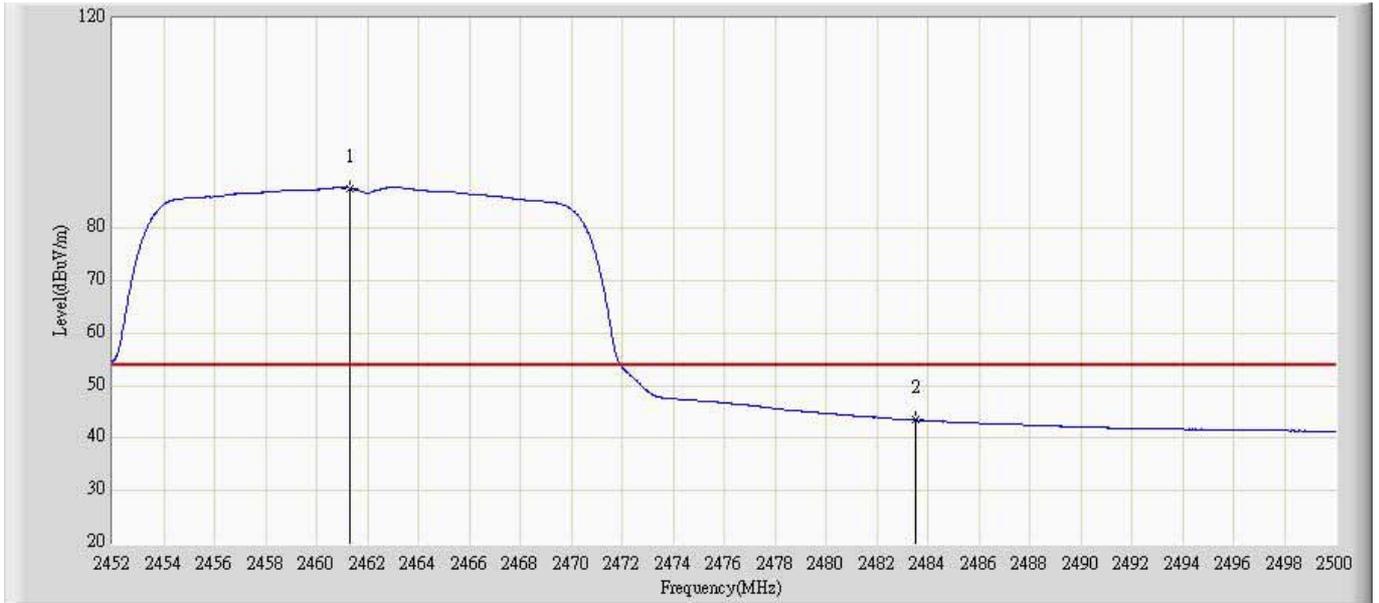
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	43.188	6.689	-10.812	54.000	36.499	AV
2		*	2410.912	86.005	49.405	N/A	N/A	36.600	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:32
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	



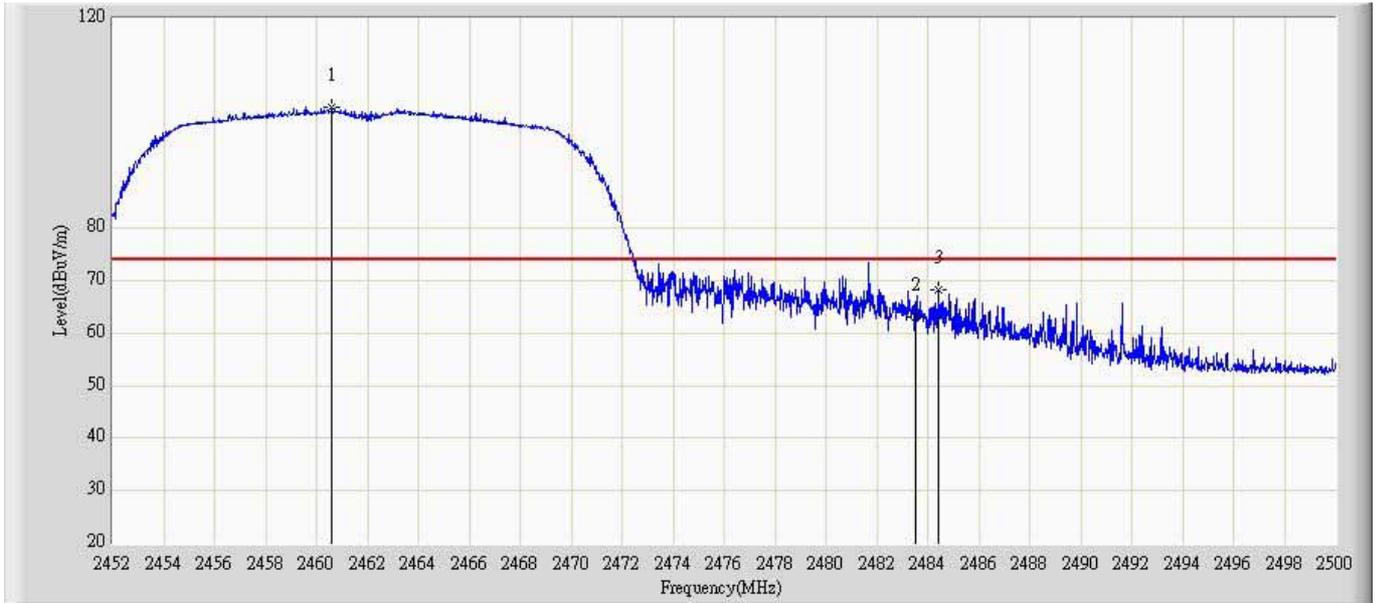
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.184	105.050	67.259	N/A	N/A	37.791	PK
2			2483.500	67.154	29.184	-6.846	74.000	37.969	PK
3			2484.208	71.434	33.458	-2.566	74.000	37.976	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:35
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	



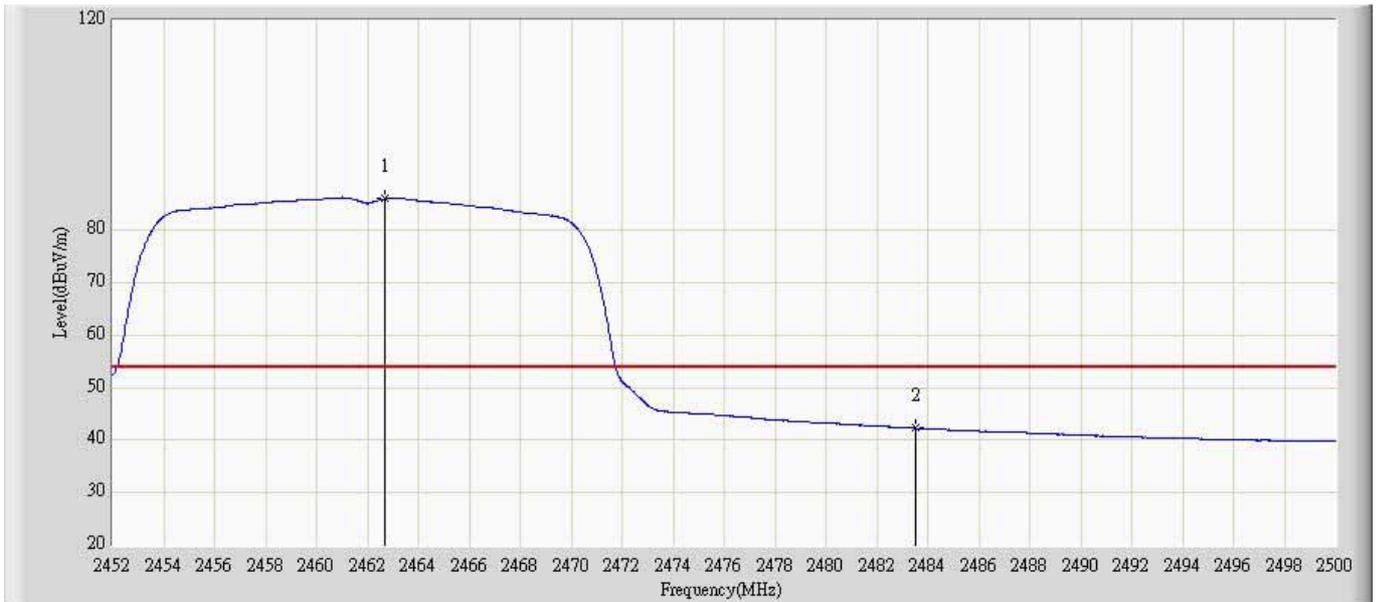
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.312	87.627	49.852	N/A	N/A	37.776	AV
2			2483.500	43.438	5.468	-10.562	54.000	37.969	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:36
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 2462MHz by 802.11g	



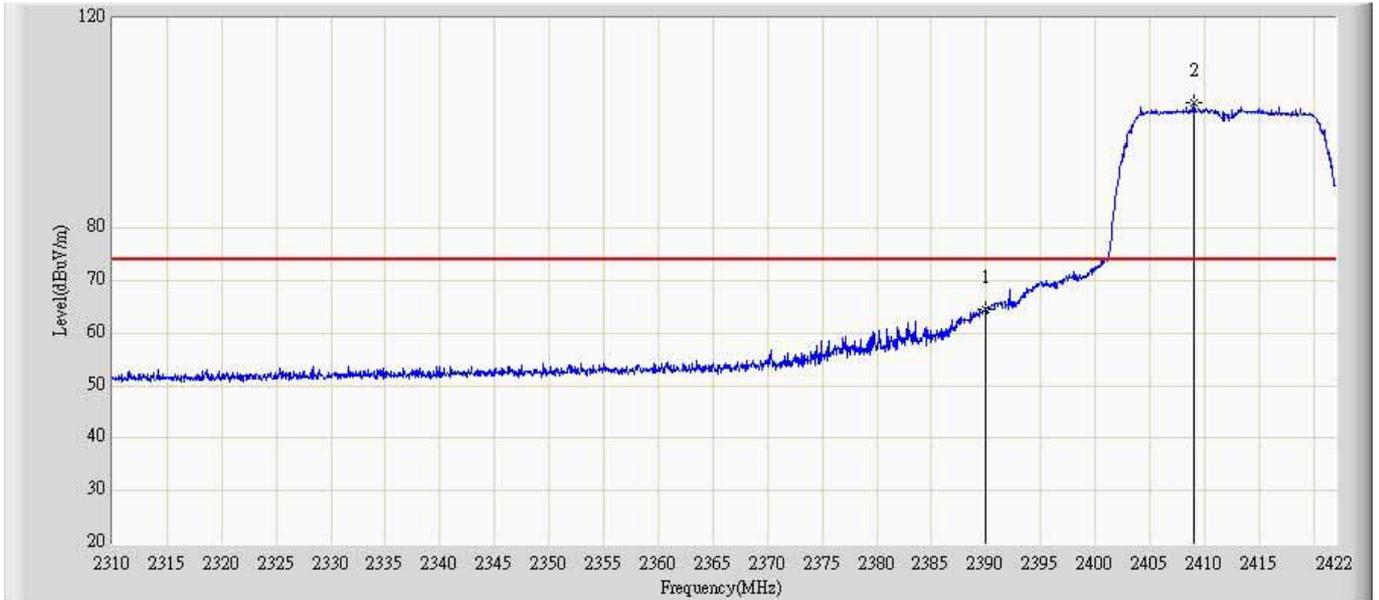
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.616	103.075	66.248	N/A	N/A	36.827	PK
2			2483.500	63.231	26.295	-10.769	74.000	36.935	PK
3			2484.400	68.222	31.282	-5.778	74.000	36.940	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:38
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 2462MHz by 802.11g	



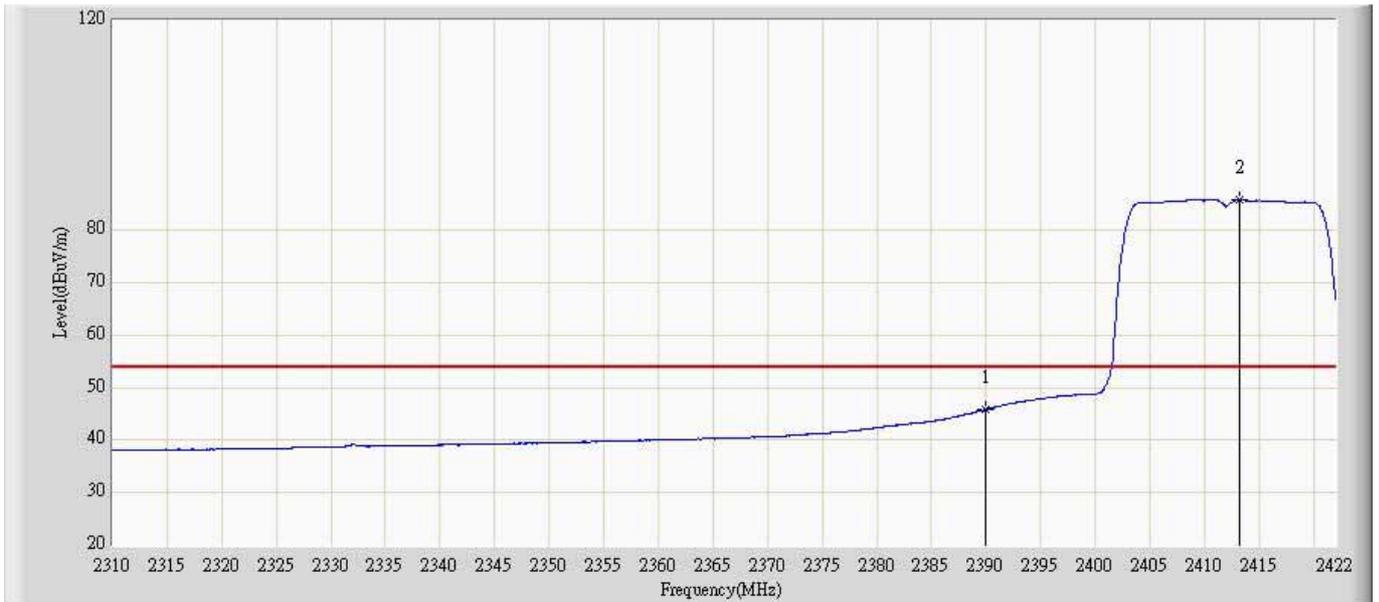
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.704	86.000	49.164	N/A	N/A	36.837	AV
2			2483.500	42.284	5.348	-11.716	54.000	36.935	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:40
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 802.11n20MHz	



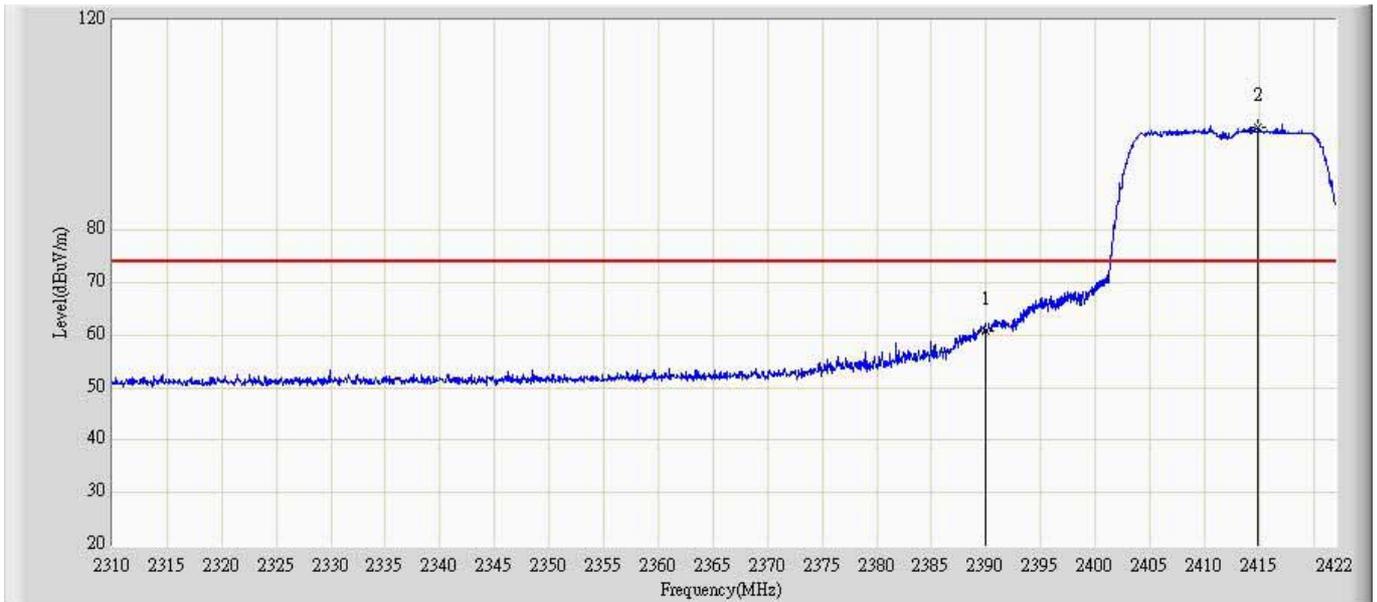
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	64.568	27.409	-9.432	74.000	37.159	PK
2		*	2409.008	103.957	66.631	N/A	N/A	37.327	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:43
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 802.11n20MHz	



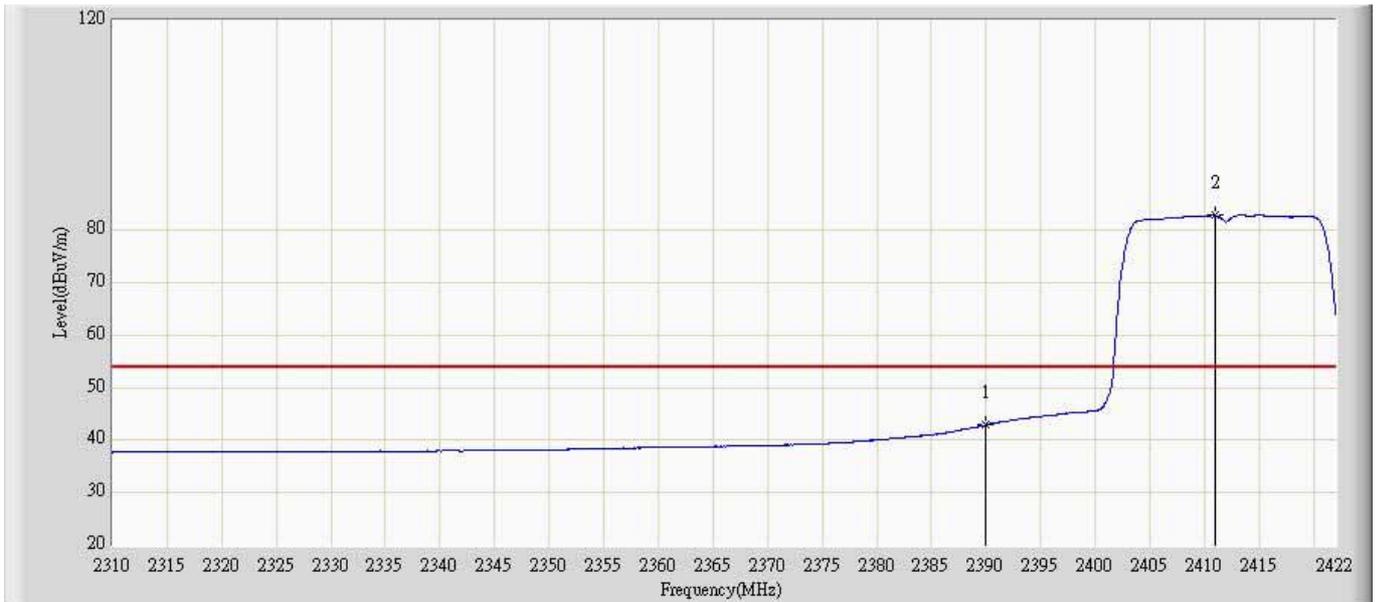
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	45.824	8.665	-8.176	54.000	37.159	AV
2		*	2413.208	85.778	48.415	N/A	N/A	37.364	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:44
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 802.11n20MHz	



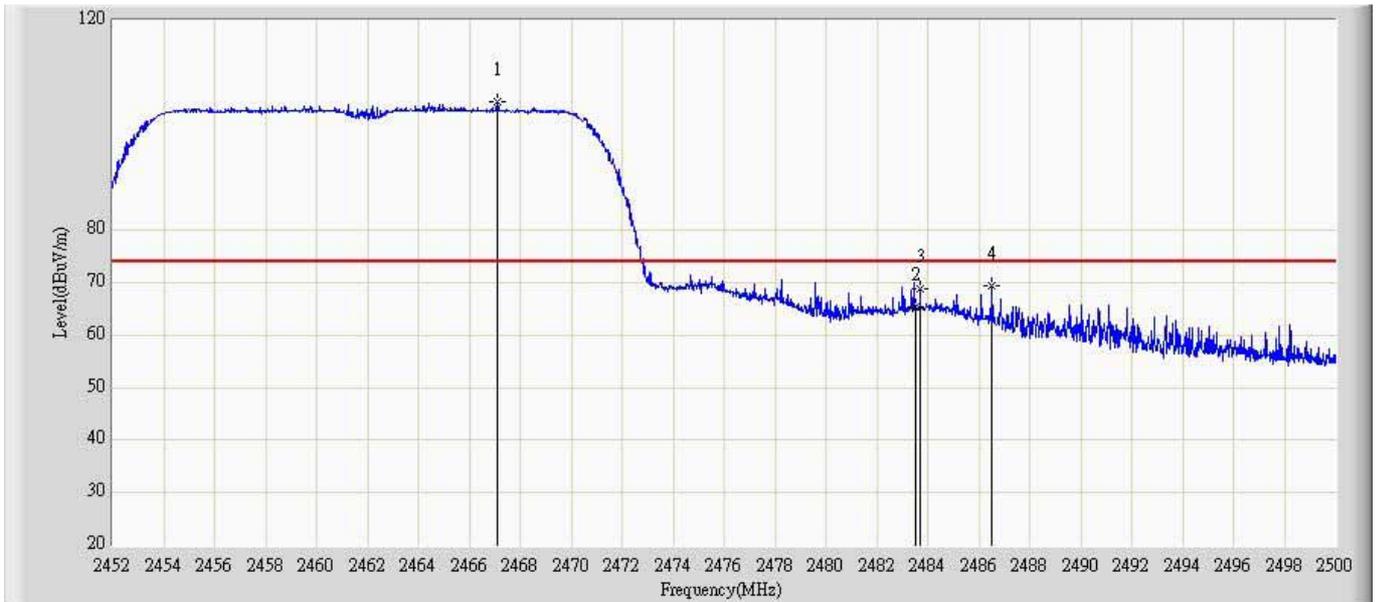
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	60.935	24.436	-13.065	74.000	36.499	PK
2		*	2414.944	99.683	63.064	N/A	N/A	36.619	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:46
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 802.11n20MHz	



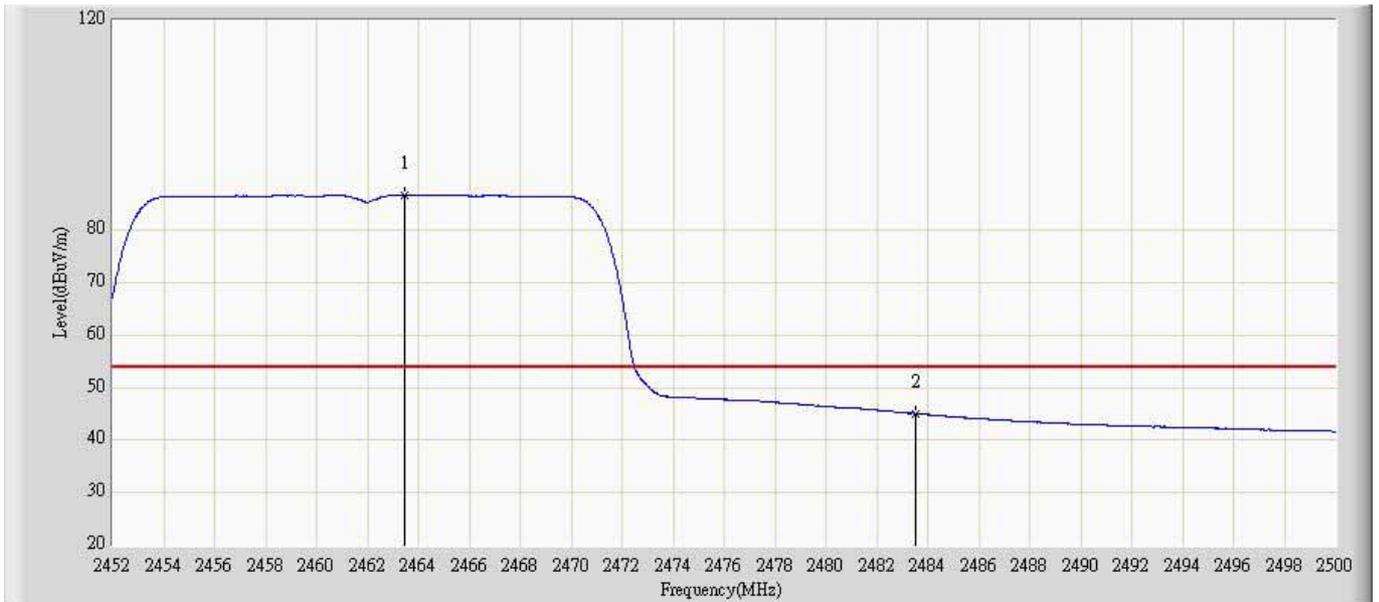
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	42.885	6.386	-11.115	54.000	36.499	AV
2		*	2410.968	82.824	46.224	N/A	N/A	36.600	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:47
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: Mode3: Transmit at channel 2462MHz by 802.11n20MHz	



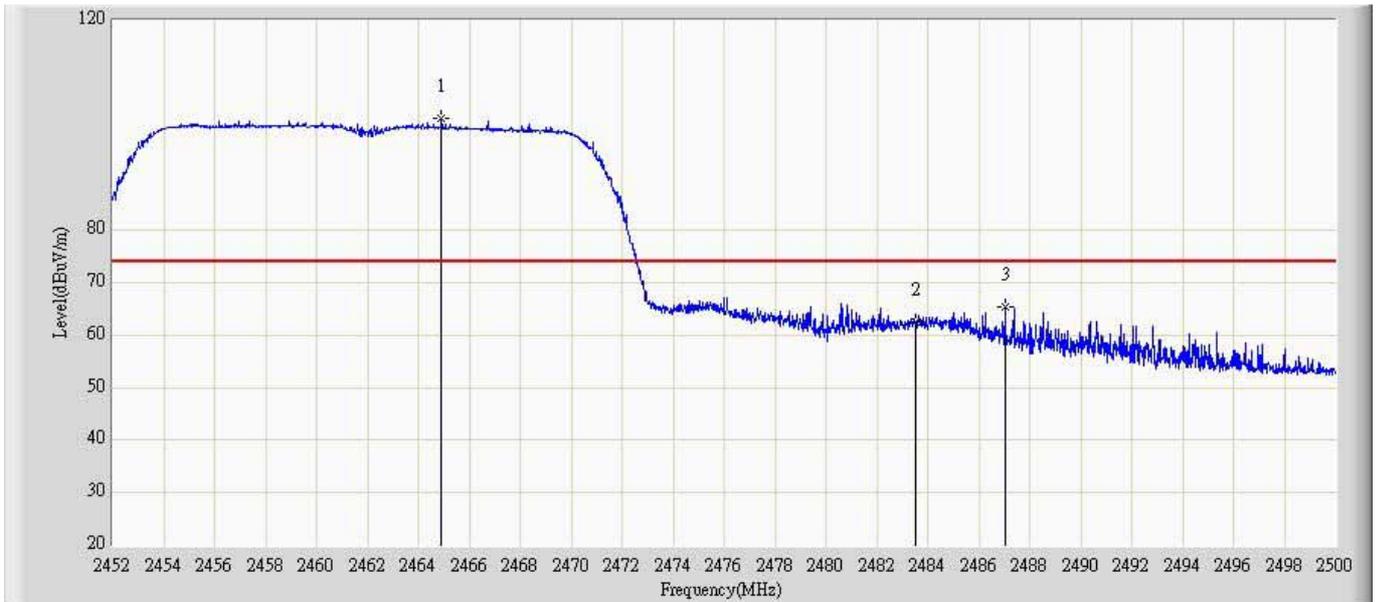
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2467.096	104.407	66.581	N/A	N/A	37.826	PK
2			2483.500	65.526	27.556	-8.474	74.000	37.969	PK
3			2483.704	68.808	30.836	-5.192	74.000	37.972	PK
4			2486.536	69.346	31.350	-4.654	74.000	37.997	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:51
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 802.11n20MHz	



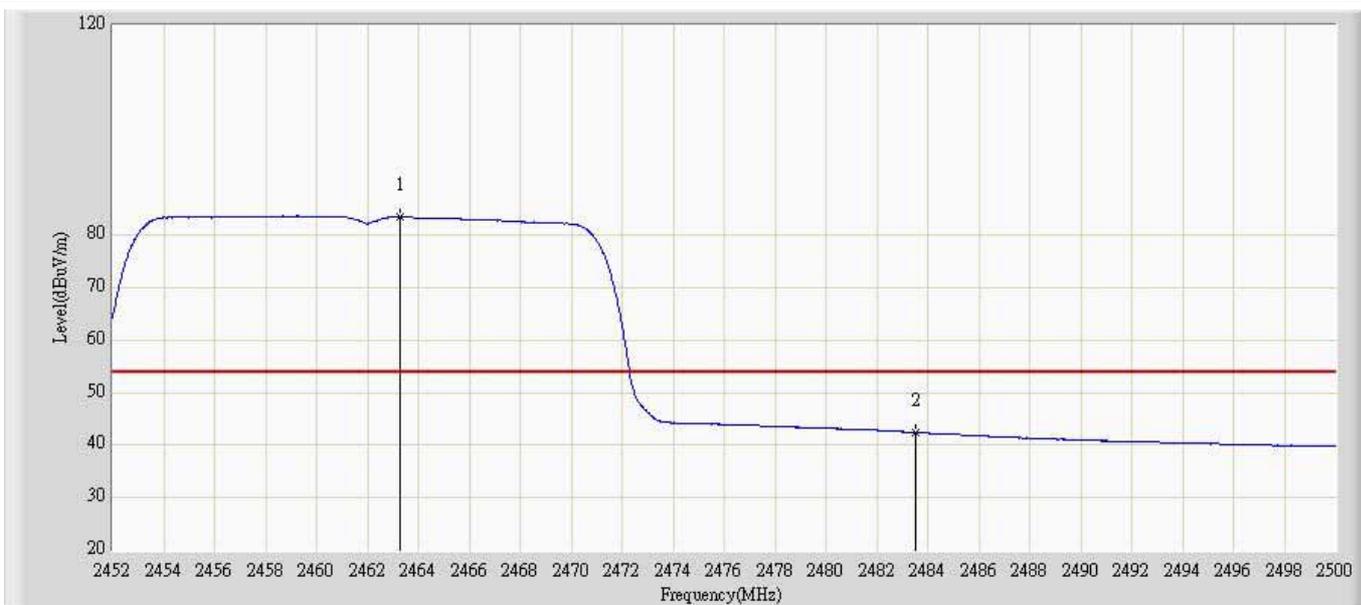
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.472	86.715	48.921	N/A	N/A	37.794	AV
2			2483.500	45.112	7.142	-8.888	54.000	37.969	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:53
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 802.11n20MHz	



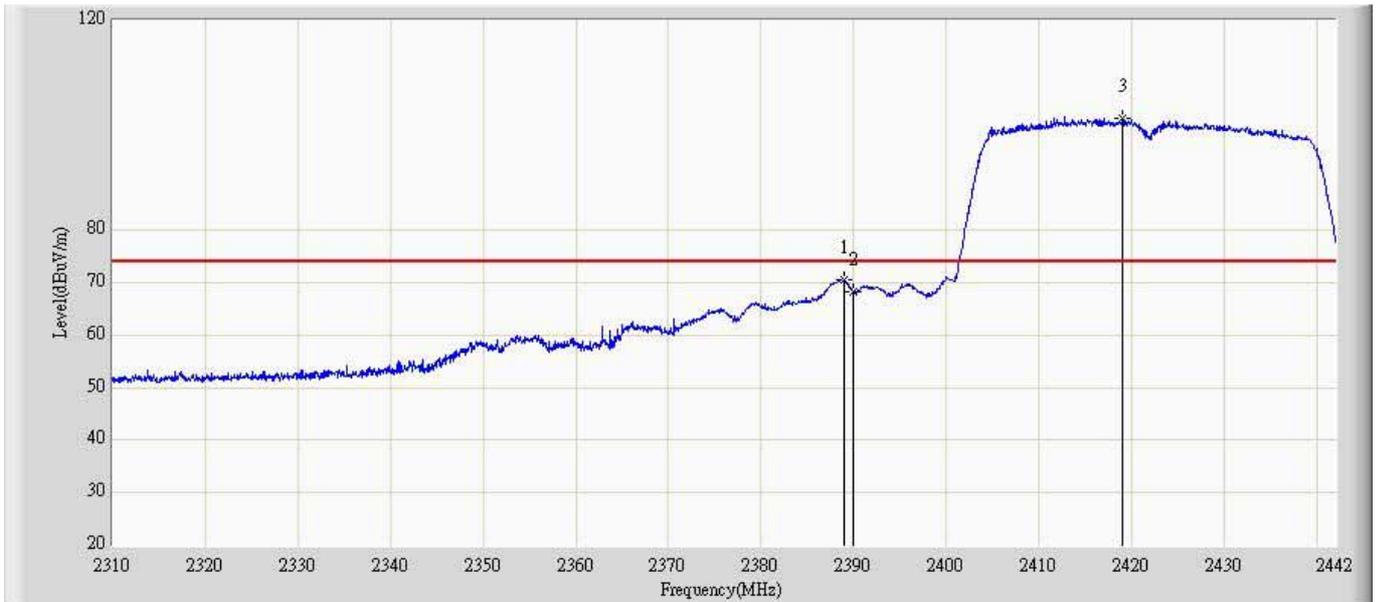
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.912	101.257	64.410	N/A	N/A	36.846	PK
2			2483.500	62.656	25.720	-11.344	74.000	36.935	PK
3			2487.016	65.296	28.343	-8.704	74.000	36.952	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:57
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: Mode3: Transmit at channel 2462MHz by 802.11n20MHz	



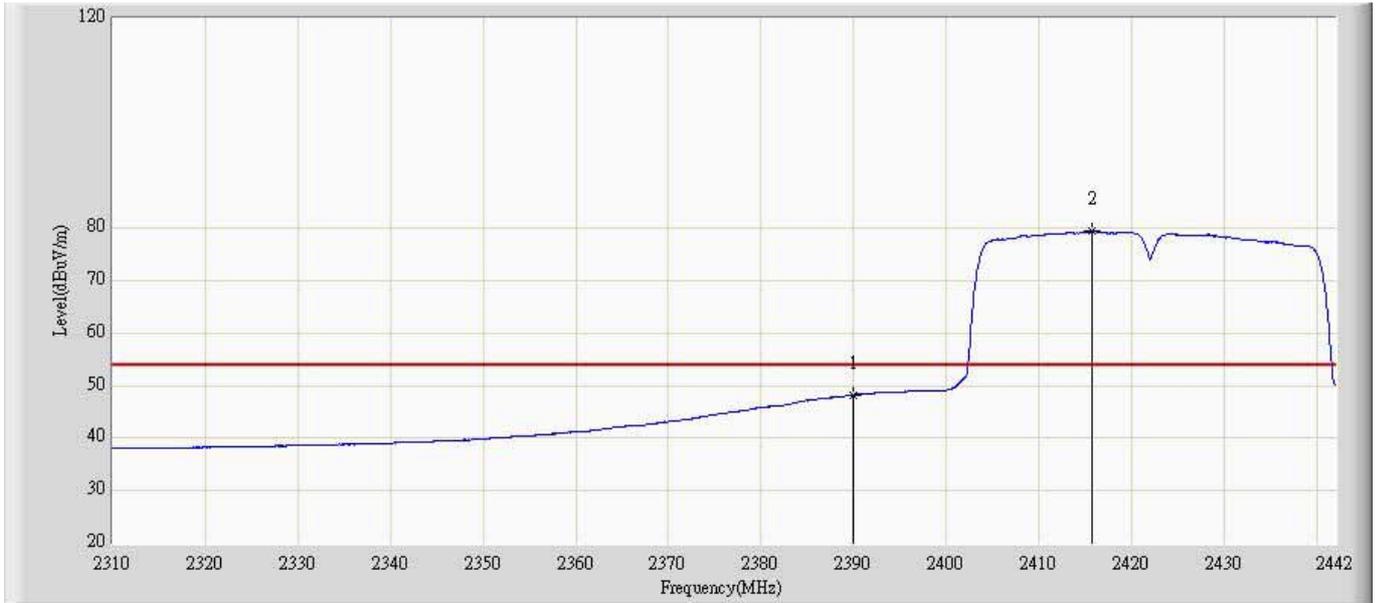
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.256	83.512	46.673	N/A	N/A	36.839	AV
2			2483.500	42.479	5.543	-11.521	54.000	36.935	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 11:59
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: Mode4: Transmit at channel 2422MHz by 802.11n40MHz	



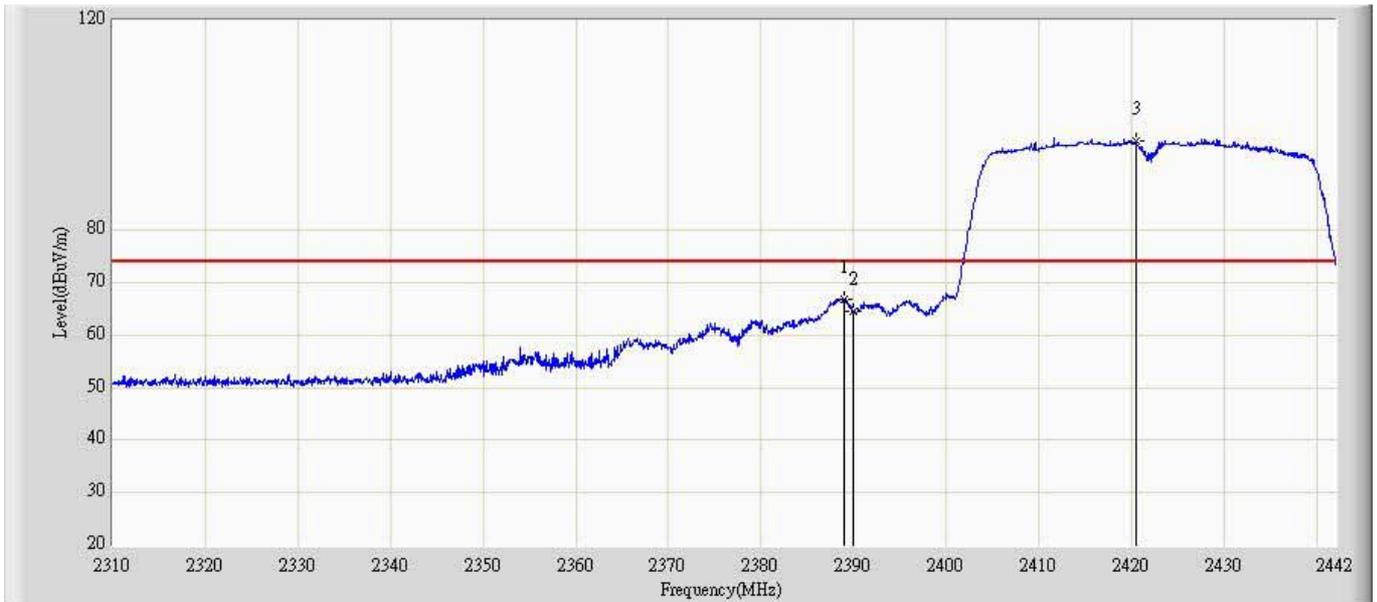
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.936	70.473	33.323	-3.527	74.000	37.150	PK
2			2390.000	68.254	31.095	-5.746	74.000	37.159	PK
3		*	2419.032	101.386	63.972	N/A	N/A	37.414	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:09
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 802.11n40MHz	



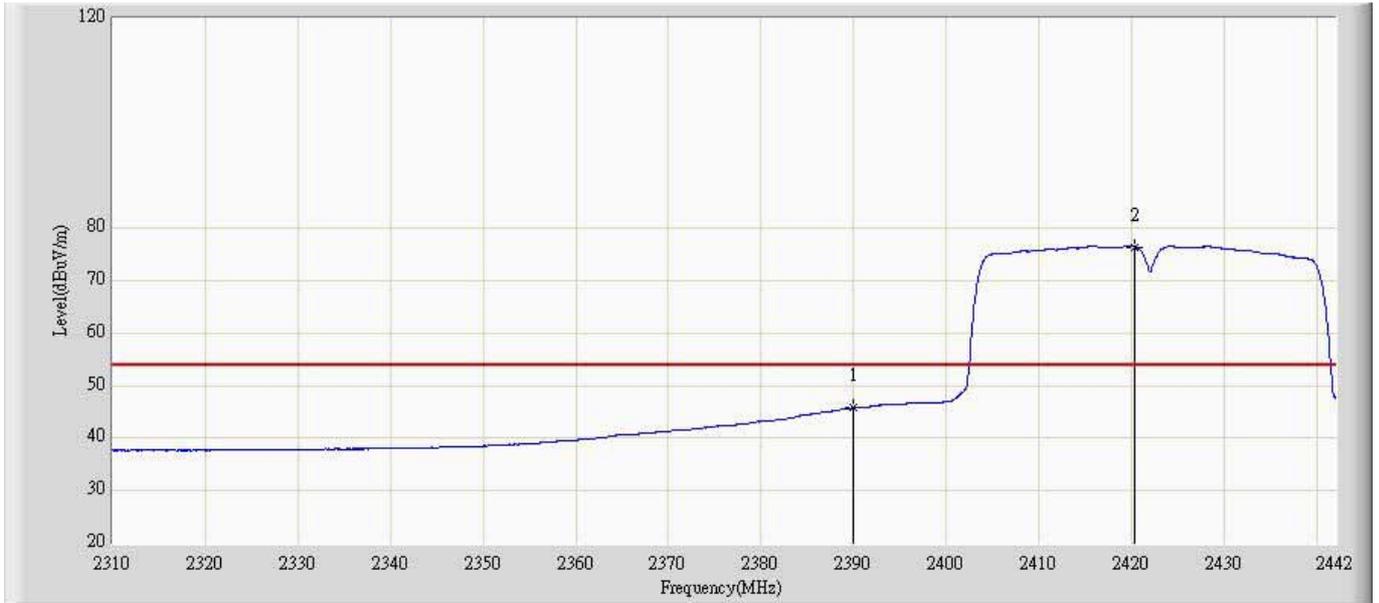
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	48.219	11.060	-5.781	54.000	37.159	AV
2		*	2415.666	79.378	41.993	N/A	N/A	37.384	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:10
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: Mode4: Transmit at channel 2422MHz by 802.11n40MHz	



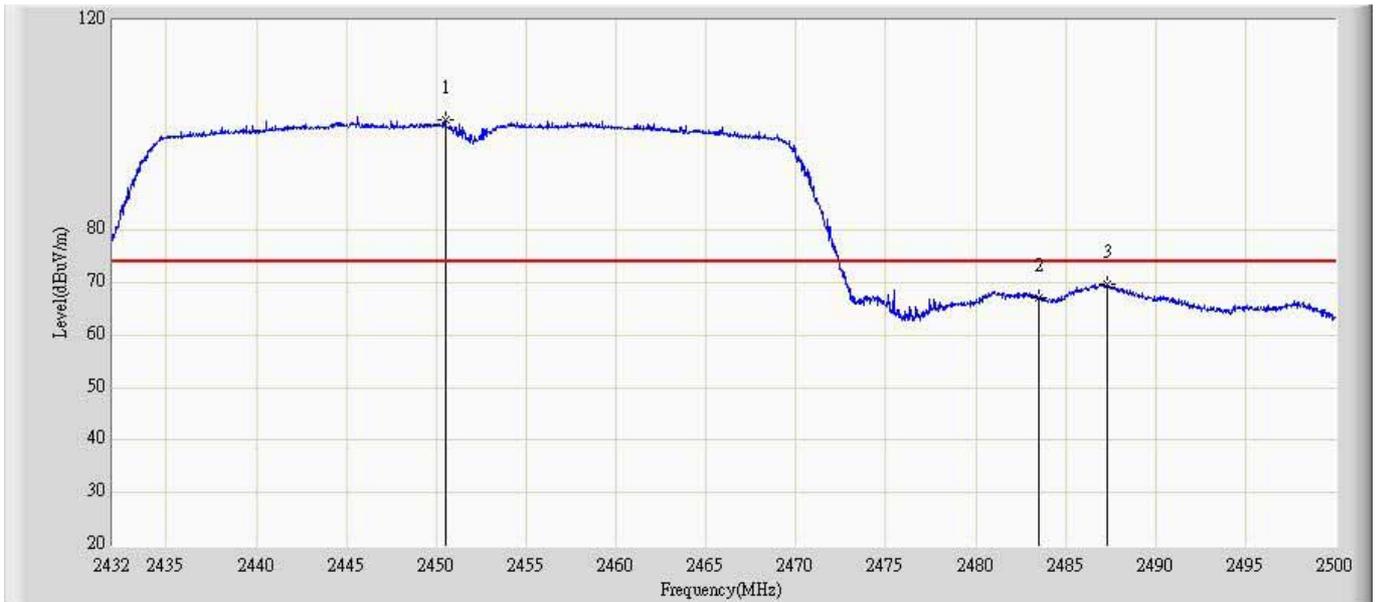
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.936	66.969	30.475	-7.031	74.000	36.494	PK
2			2390.000	64.520	28.021	-9.480	74.000	36.499	PK
3		*	2420.484	97.122	60.477	N/A	N/A	36.645	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:12
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 802.11n40MHz	



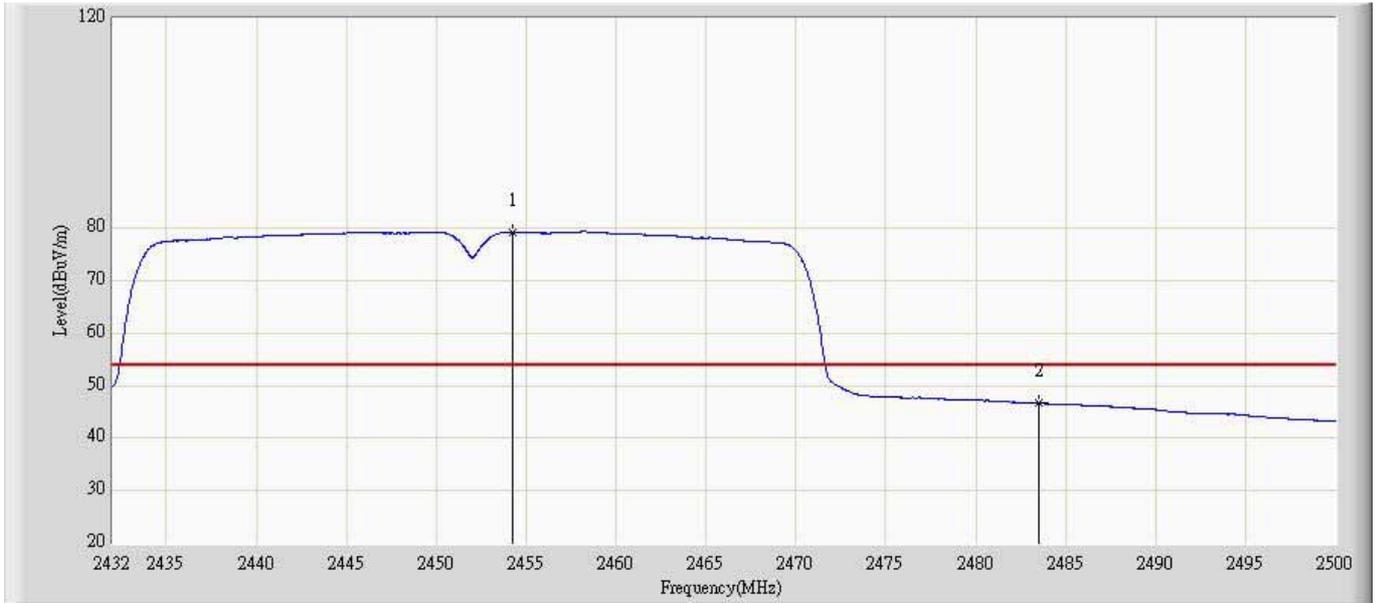
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	45.771	9.272	-8.229	54.000	36.499	AV
2		*	2420.352	76.404	39.759	N/A	N/A	36.645	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:13
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 802.11n40MHz	



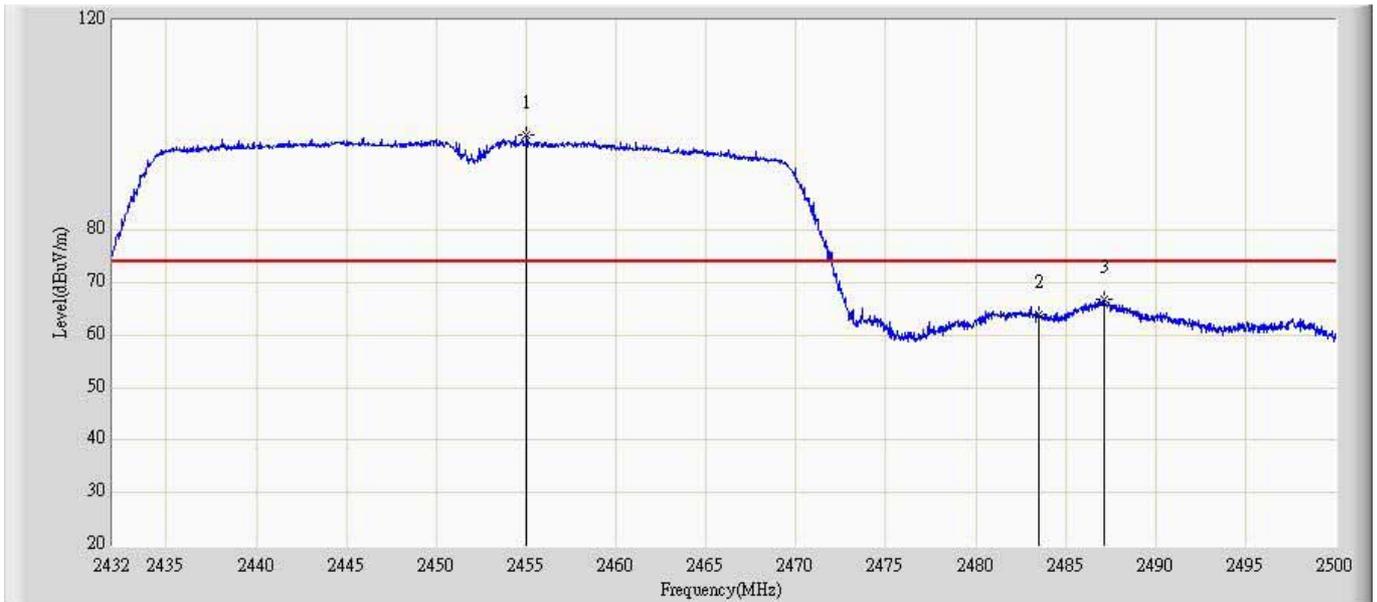
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2450.496	100.969	63.282	N/A	N/A	37.687	PK
2			2483.500	67.101	29.131	-6.899	74.000	37.969	PK
3			2487.352	69.660	31.656	-4.340	74.000	38.004	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:15
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 802.11n40MHz	



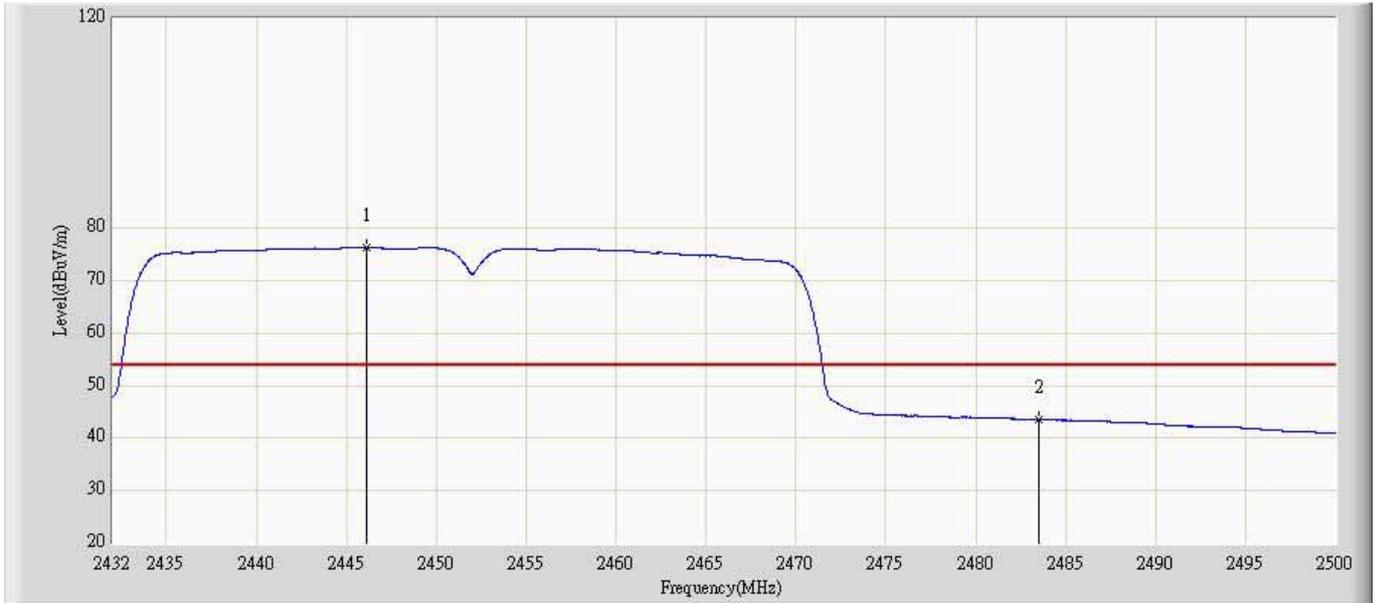
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2454.270	79.245	41.527	N/A	N/A	37.717	AV
2			2483.500	46.743	8.773	-7.257	54.000	37.969	AV

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:16
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 802.11n40MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.018	98.088	61.284	N/A	N/A	36.804	PK
2			2483.500	63.912	26.976	-10.088	74.000	36.935	PK
3			2487.182	66.766	29.813	-7.234	74.000	36.954	PK

Engineer: Milo	
Site: AC5	Time: 2013/07/08 - 13:18
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 802.11n40MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2446.144	76.374	39.607	N/A	N/A	36.767	AV
2			2483.500	43.633	6.697	-10.367	54.000	36.935	AV

7. Operation Frequency Range of 20dB Bandwidth

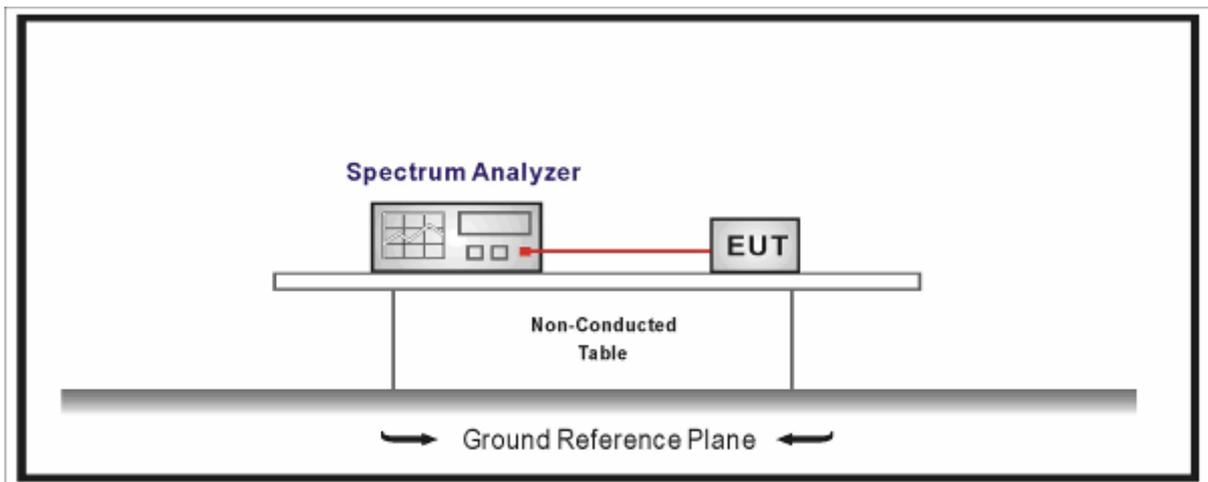
7.1. Test Equipment

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.

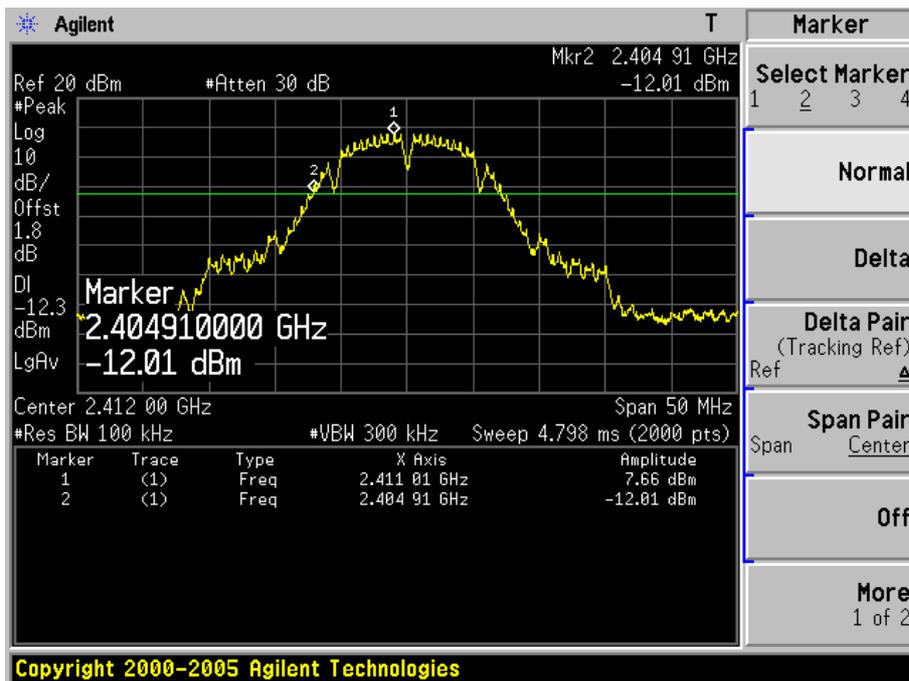
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

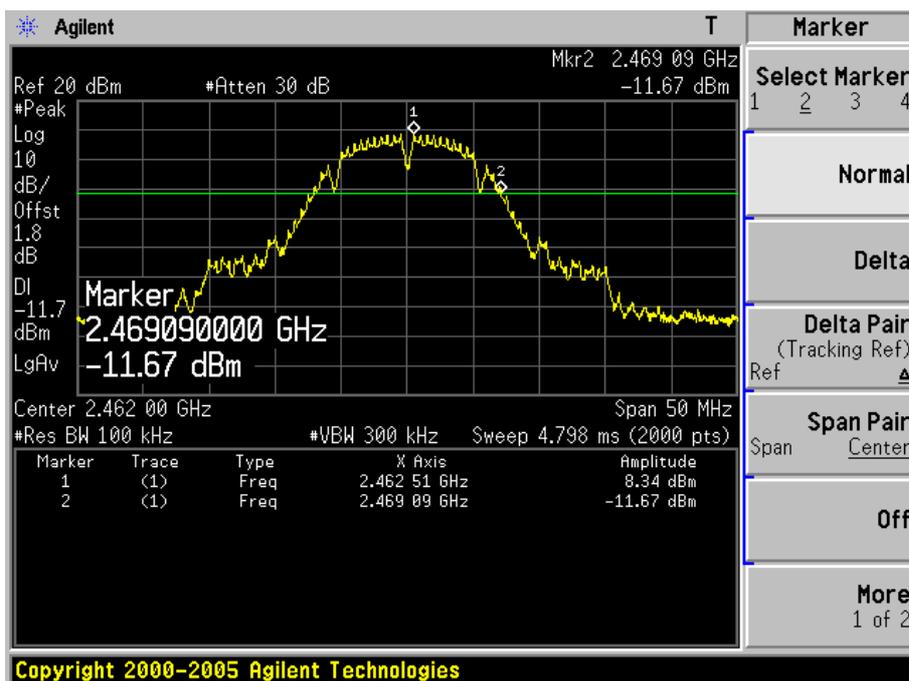
7.6. Test Result

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)

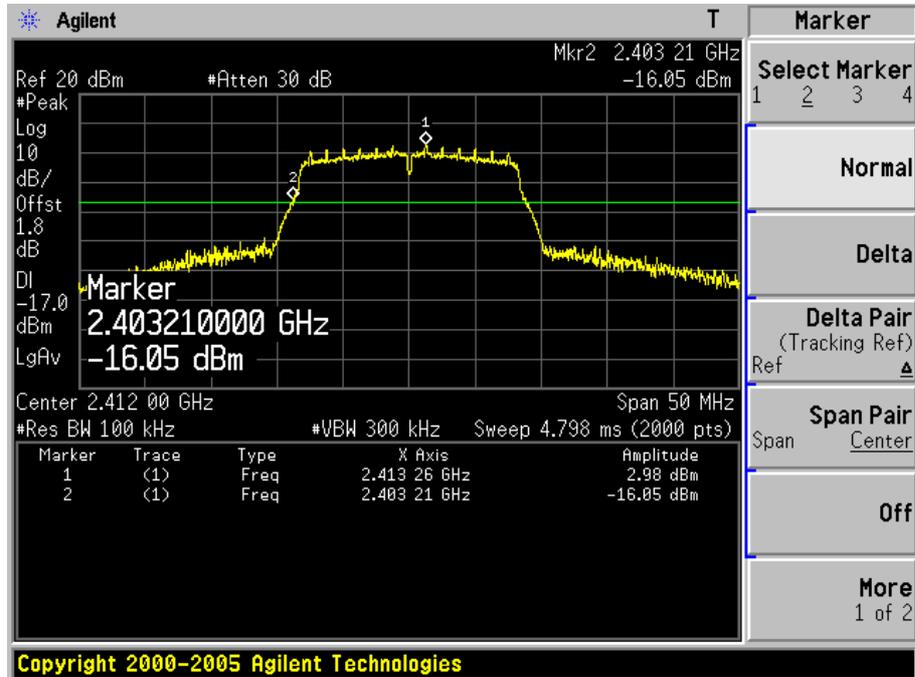


Channel 11 (2462MHz)

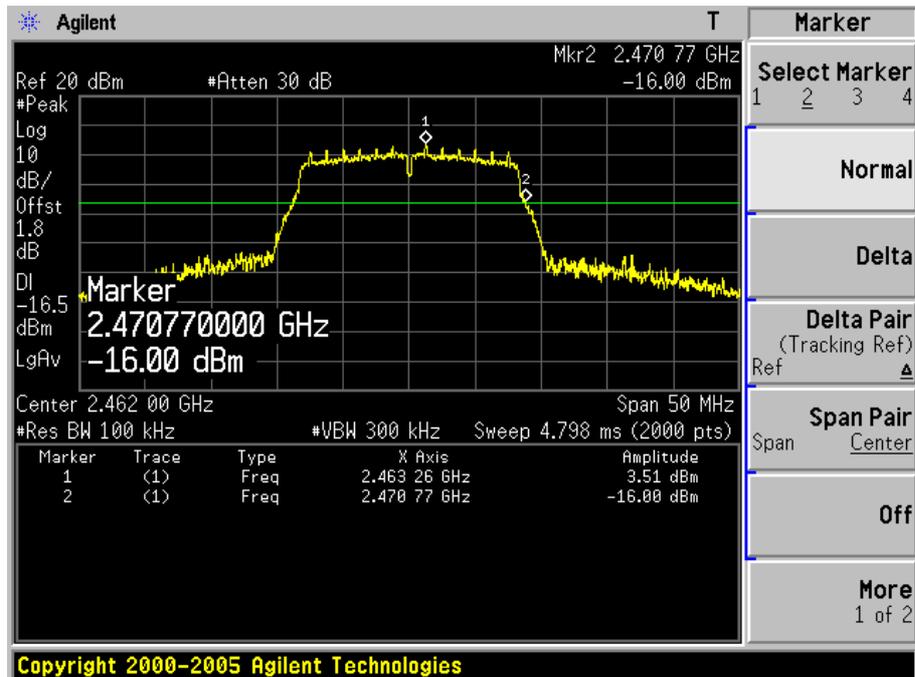


Product	: WCDMA Digital Mobile Phone
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

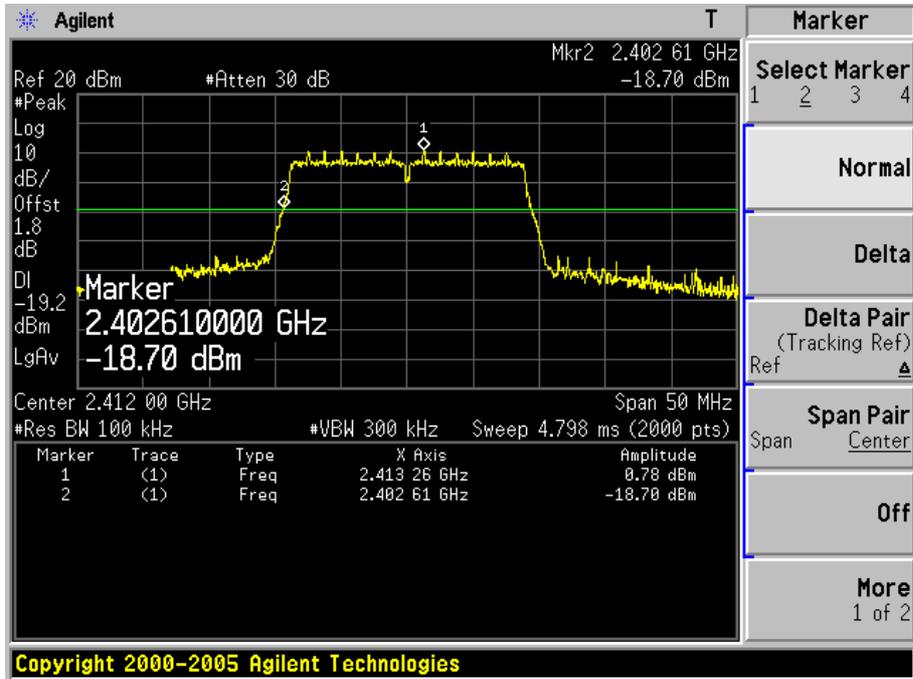


Channel 11 (2462MHz)

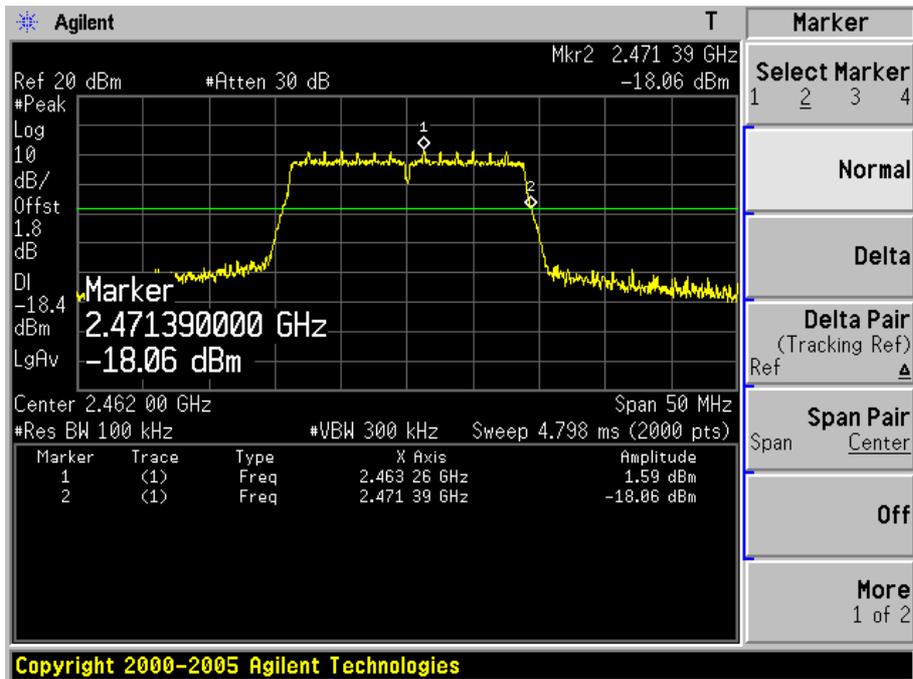


Product	: WCDMA Digital Mobile Phone
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

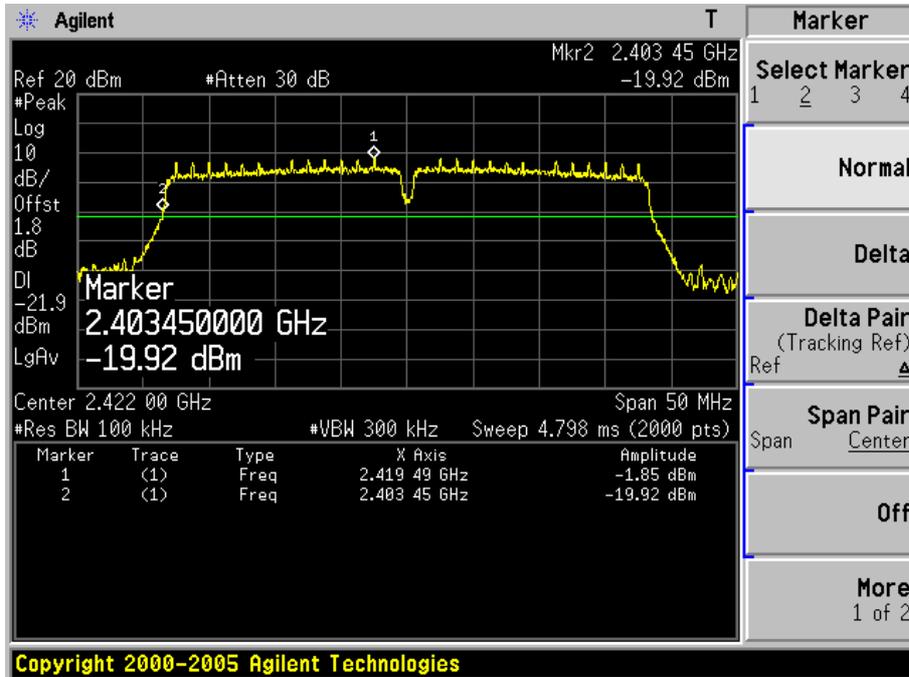


Channel 11 (2462MHz)

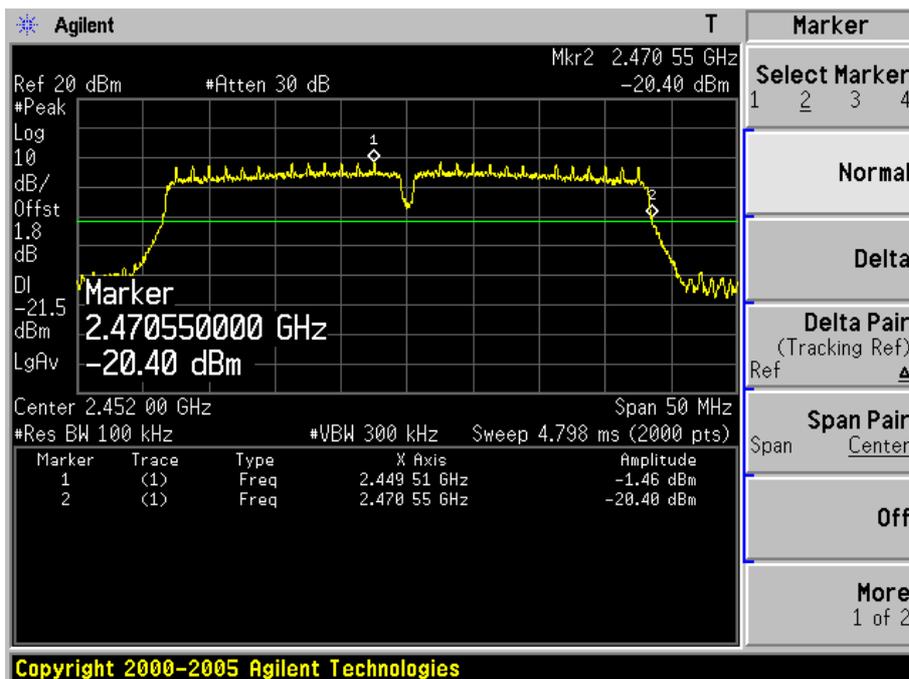


Product	:	WCDMA Digital Mobile Phone
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

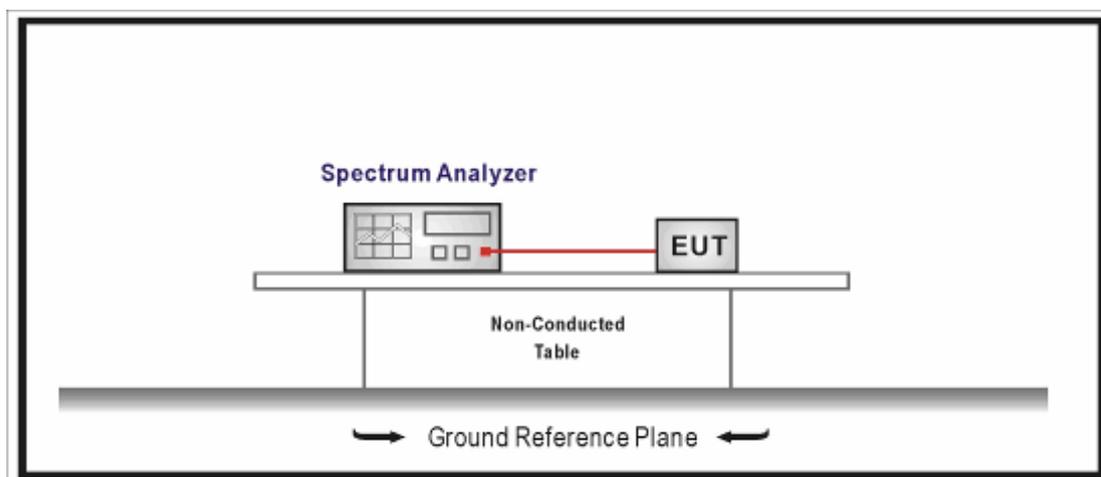
8.1. Test Equipment

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

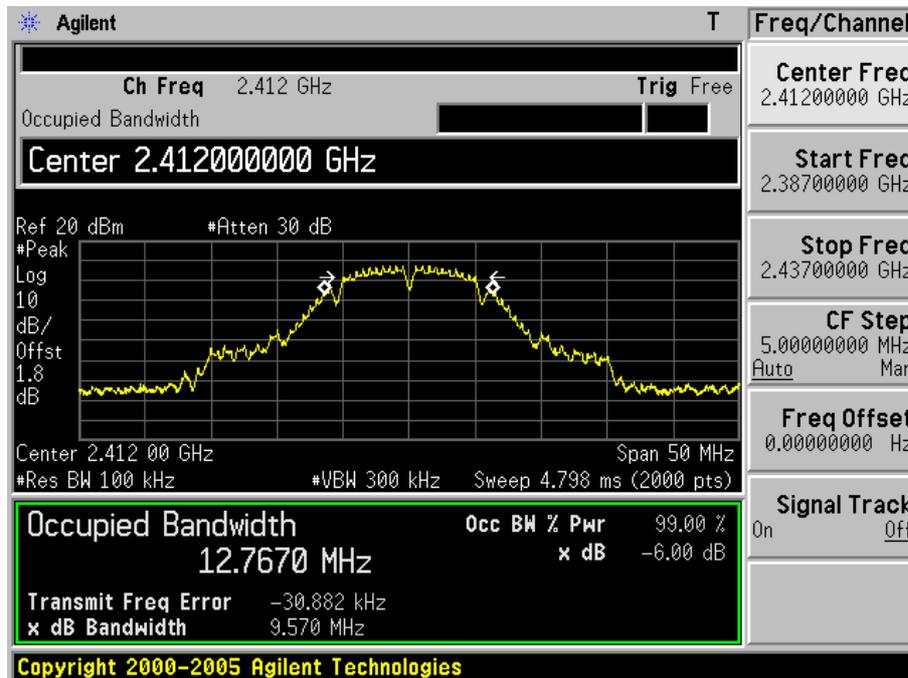
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

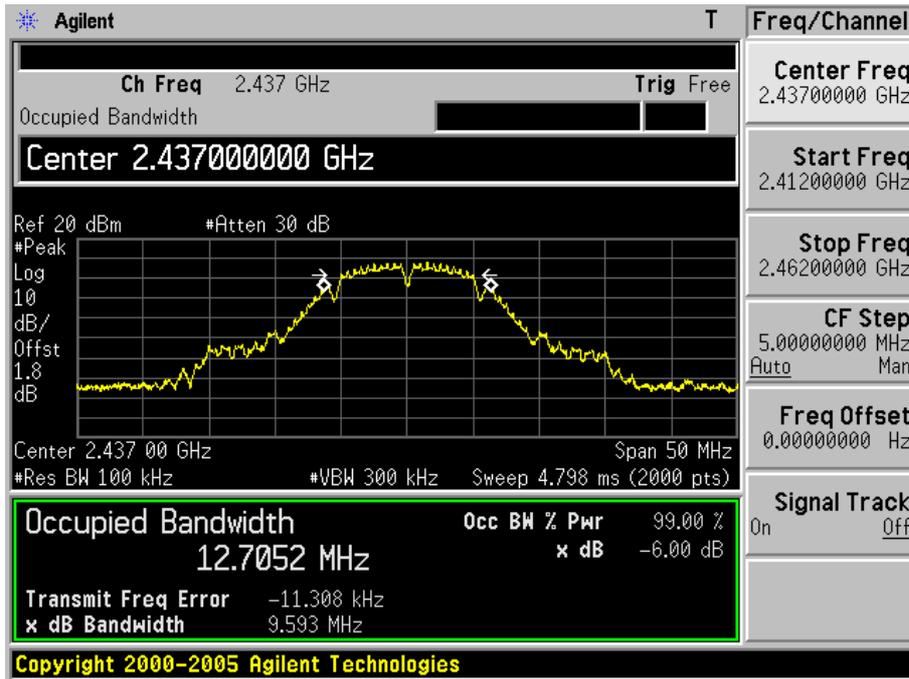
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
01	2412	9570	500	Pass	12767.0
06	2437	9593	500	Pass	12705.2
11	2462	10022	500	Pass	12606.5

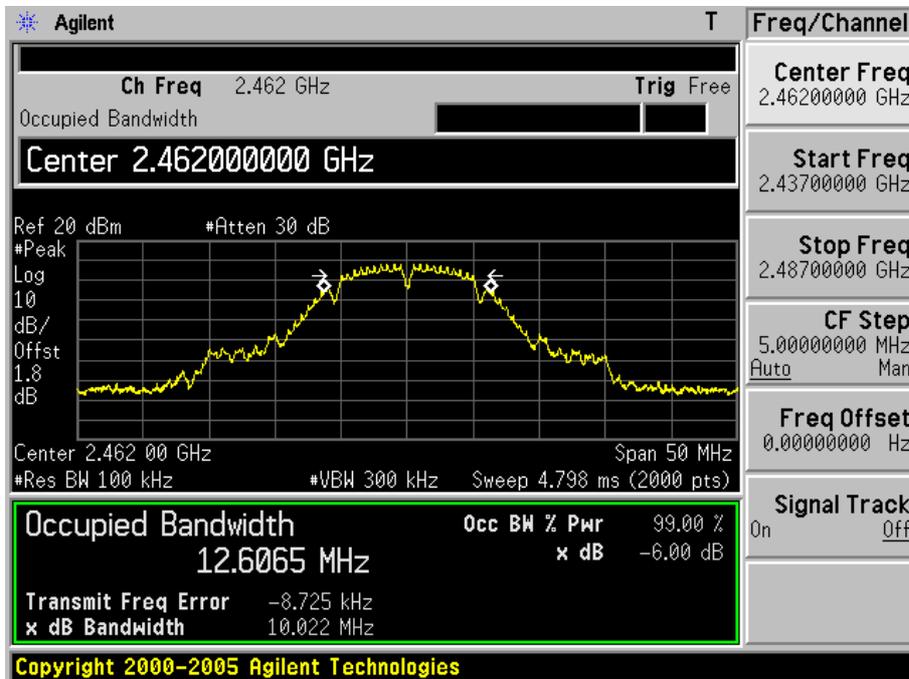
Channel 01 (2412MHz)



Channel 06 (2437MHz)



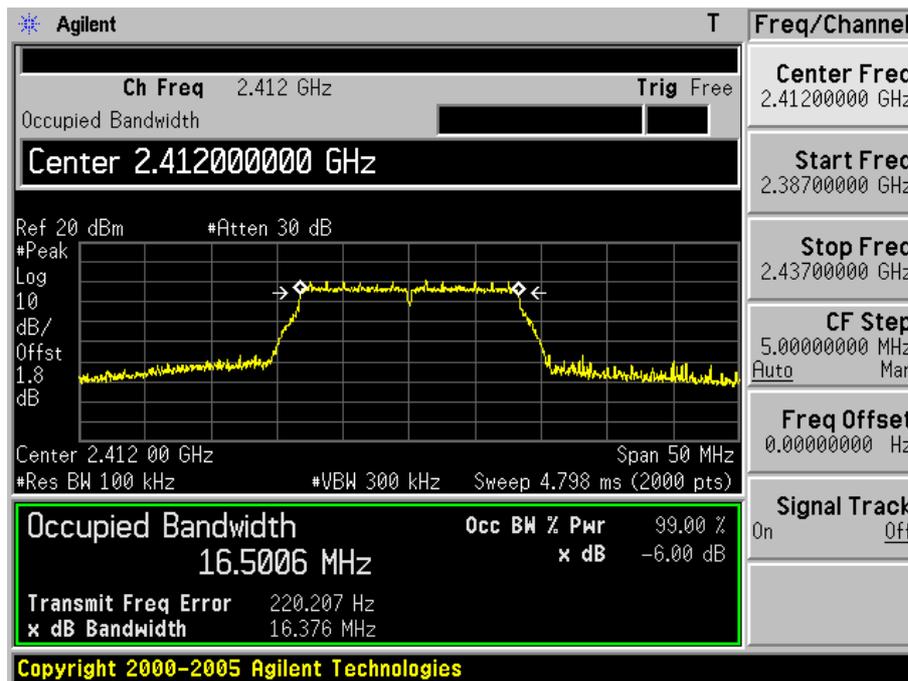
Channel 11 (2462MHz)



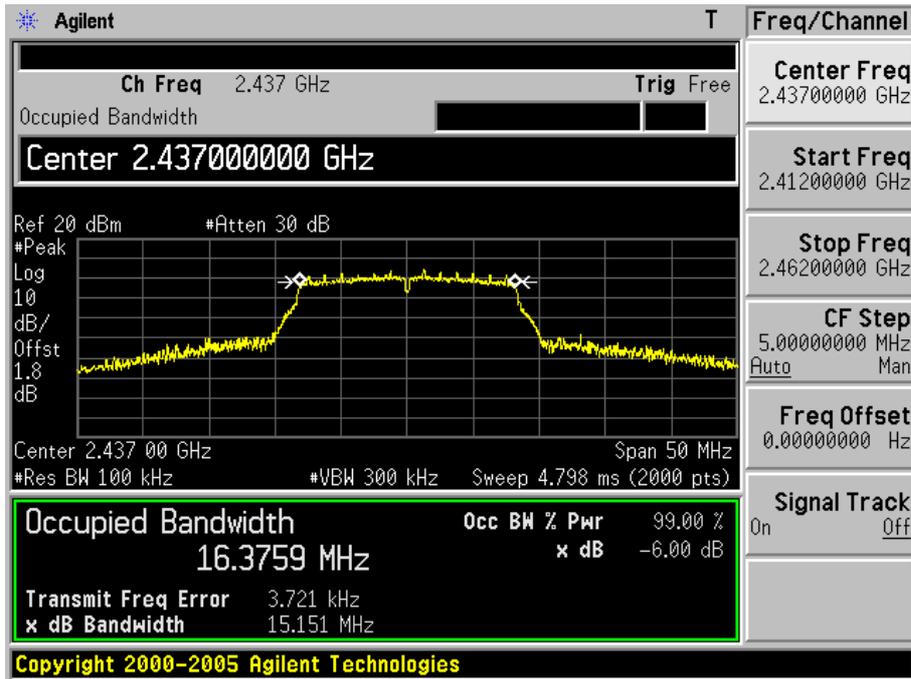
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
01	2412	16376	500	Pass	16500.6
06	2437	15151	500	Pass	16375.9
11	2462	16372	500	Pass	16487.9

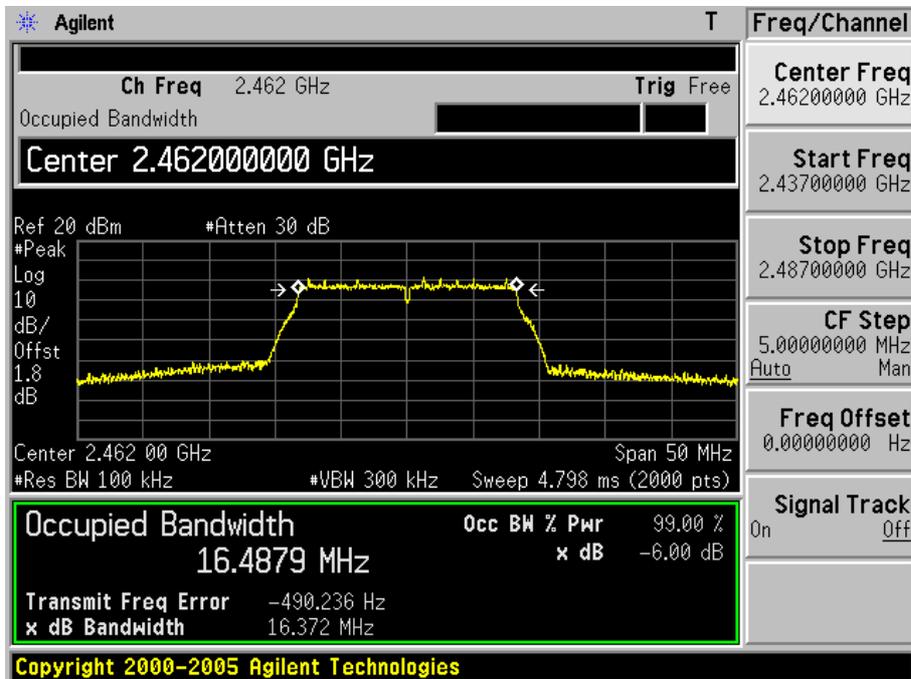
Channel 01 (2412MHz)



Channel 06 (2437MHz)



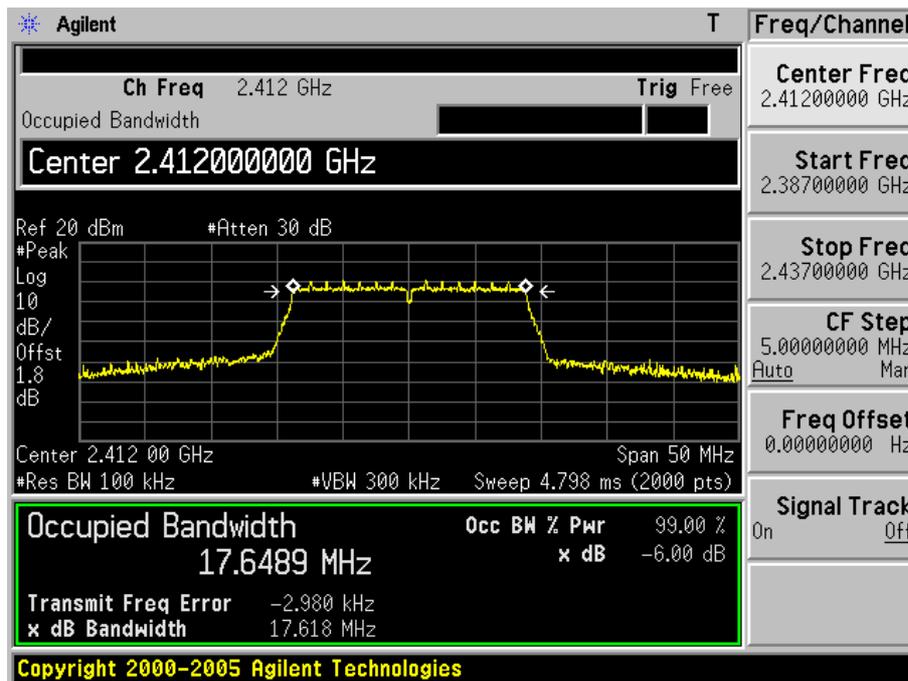
Channel 11 (2462MHz)



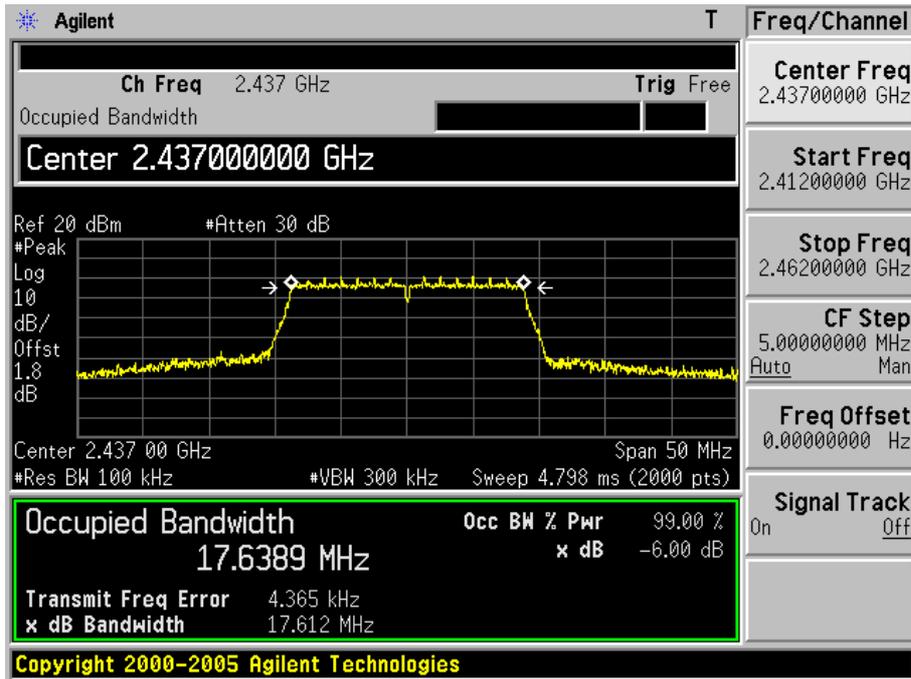
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
01	2412	17618	500	Pass	17648.9
06	2437	17612	500	Pass	17638.9
11	2462	17605	500	Pass	17627.7

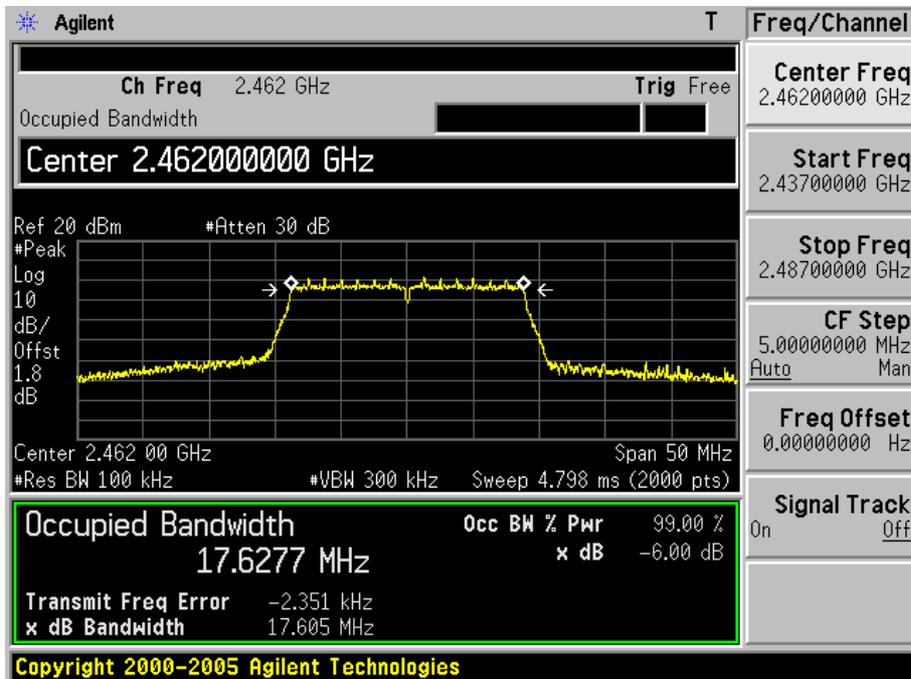
Channel 01 (2412MHz)



Channel 06 (2437MHz)



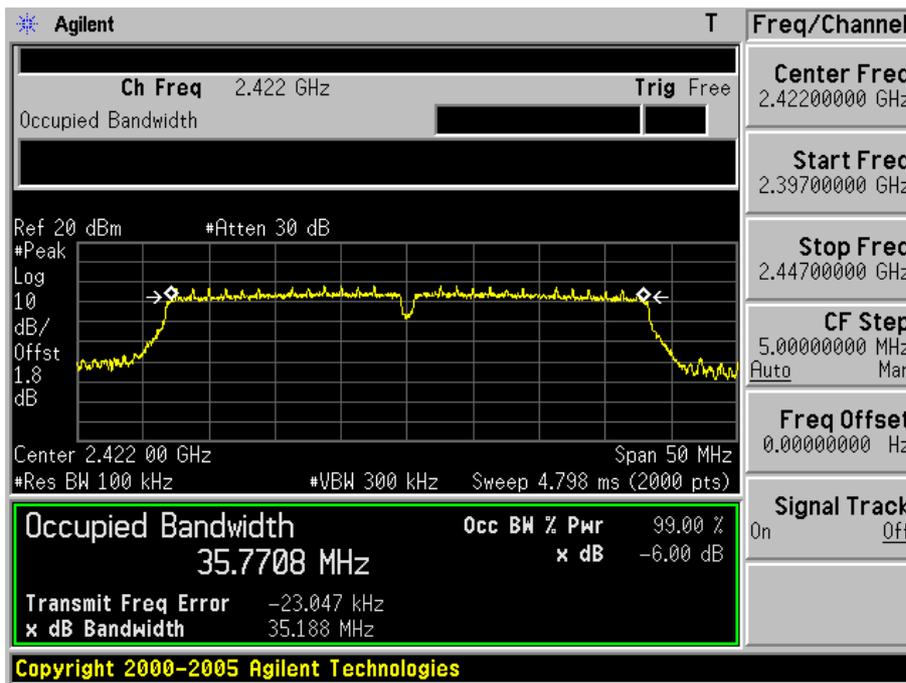
Channel 11 (2462MHz)



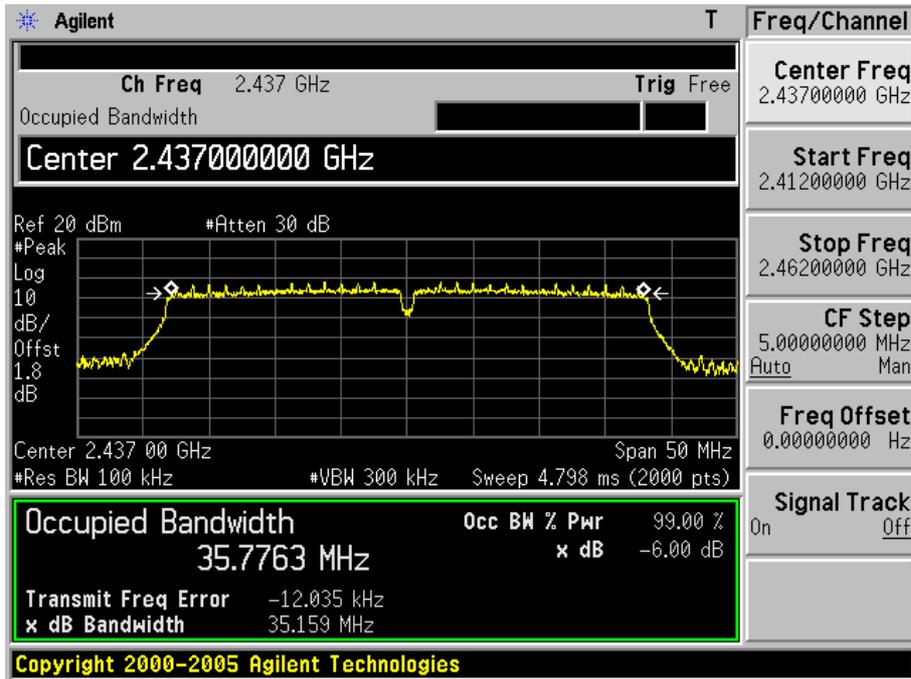
Product	:	WCDMA Digital Mobile Phone
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result	99% Bandwidth (kHz)
03	2422	35188	500	Pass	35770.8
06	2437	35159	500	Pass	35776.3
09	2452	35183	500	Pass	35793.2

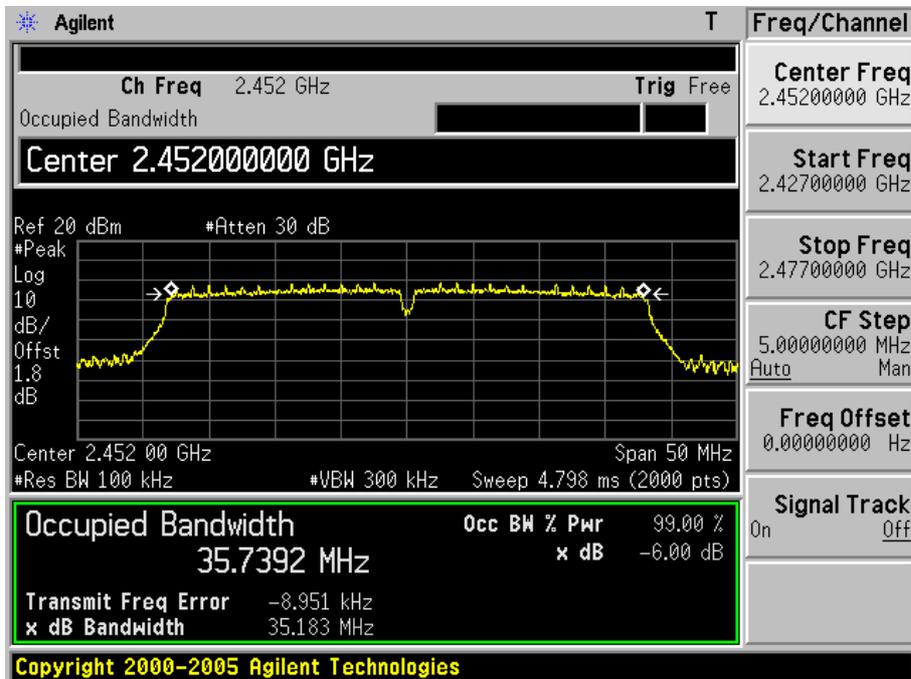
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

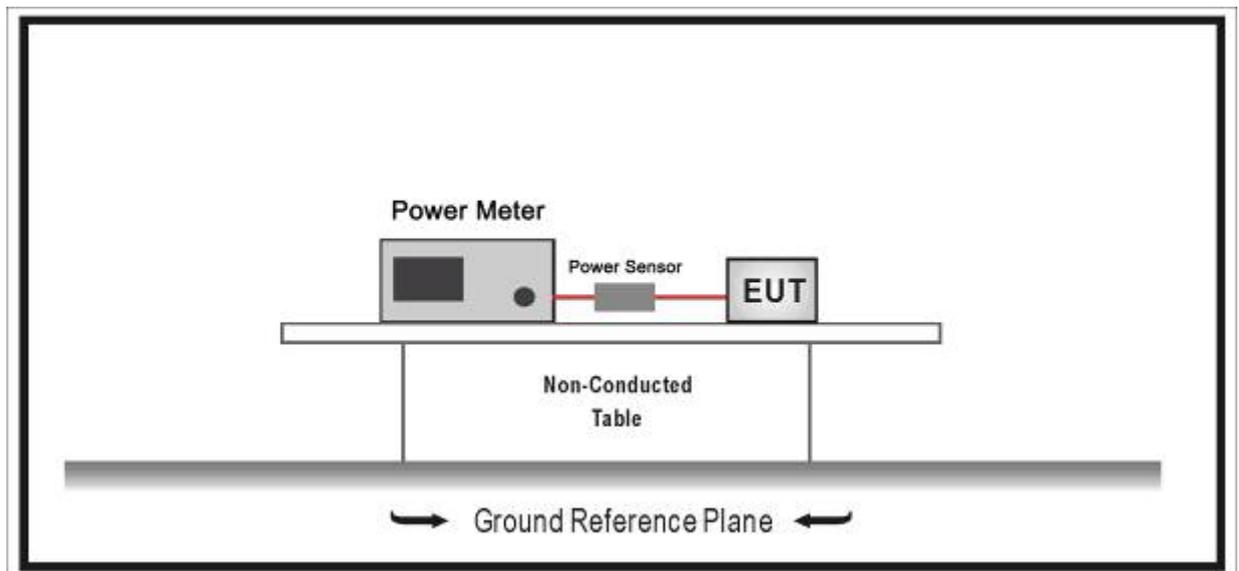
9.1. Test Equipment

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	19.38
				5.5	19.32
				11	19.27
802.11g	20	2437	6	6	22.58
				24	22.46
				54	22.34
802.11n20	20	2437	6	MCS0	21.86
				MCS4	21.26
				MCS7	21.27
802.11n40	40	2437	6	MCS0	21.16
				MCS4	21.15
				MCS7	21.05

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	19.21	30.00	Pass
6	2437	19.38	30.00	Pass
11	2462	19.76	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	22.16	30.00	Pass
6	2437	22.58	30.00	Pass
11	2462	22.85	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	21.61	30.00	Pass
6	2437	21.86	30.00	Pass
11	2462	22.61	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	21.88	30.00	Pass
6	2437	21.16	30.00	Pass
9	2452	22.51	30.00	Pass

10. Power Spectral Density

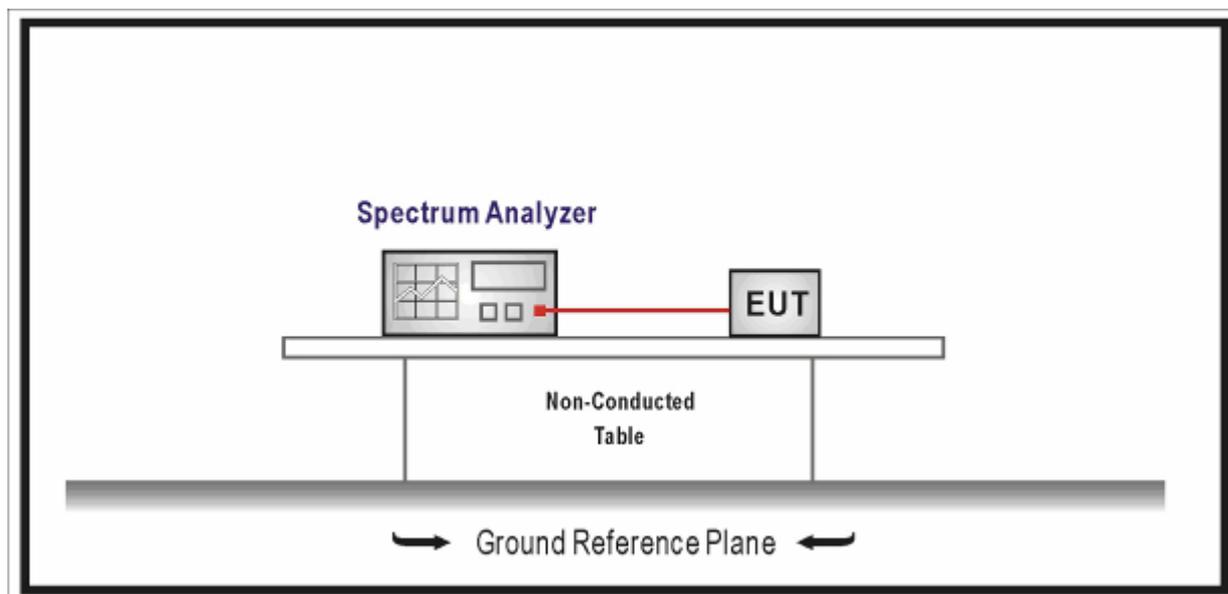
10.1. Test Equipment

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

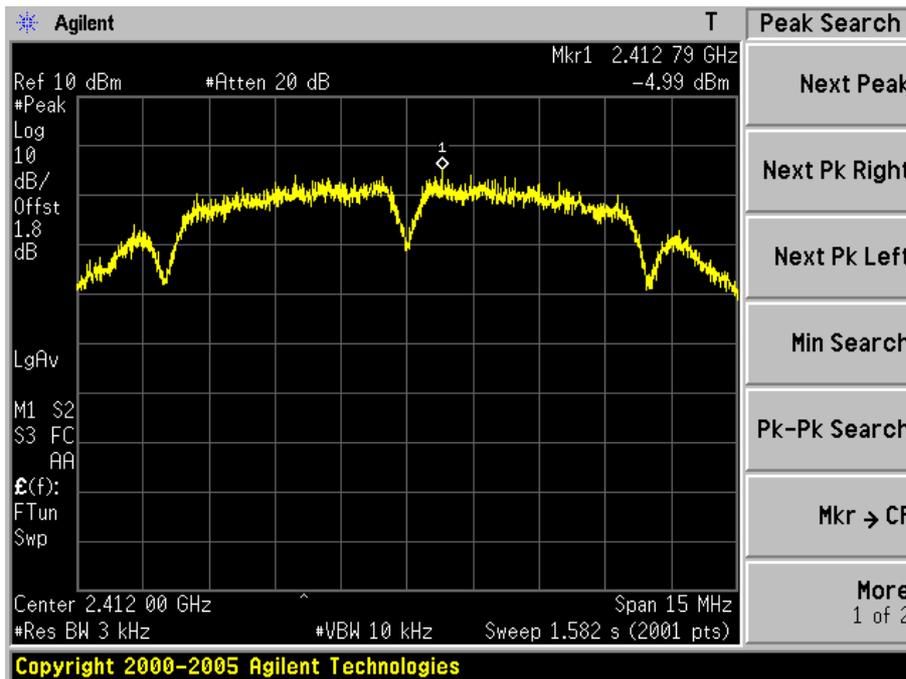
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

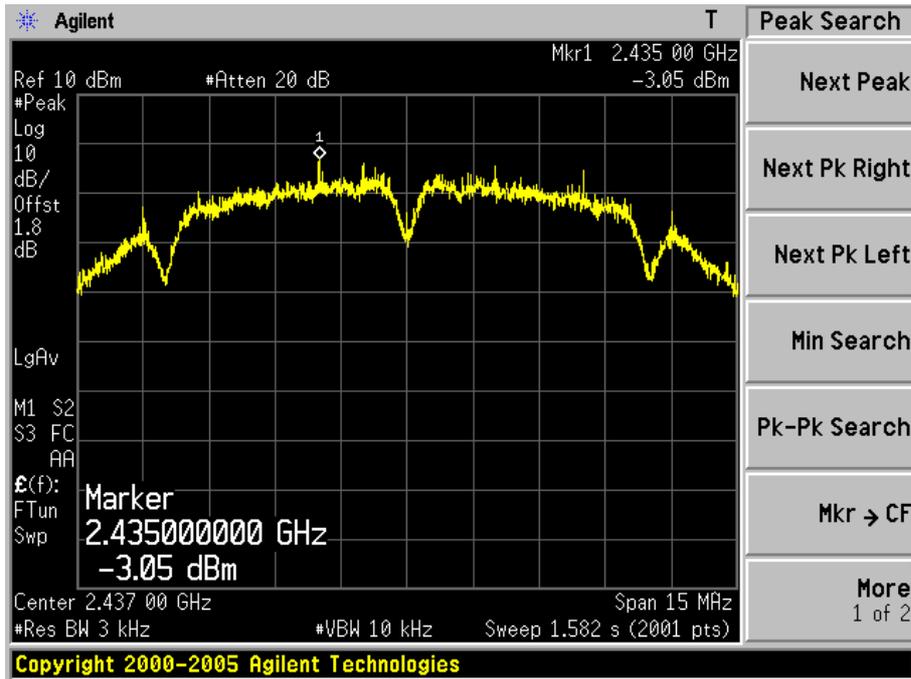
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
01	2412	-4.99	8	Pass
06	2437	-3.05	8	Pass
11	2462	-4.56	8	Pass

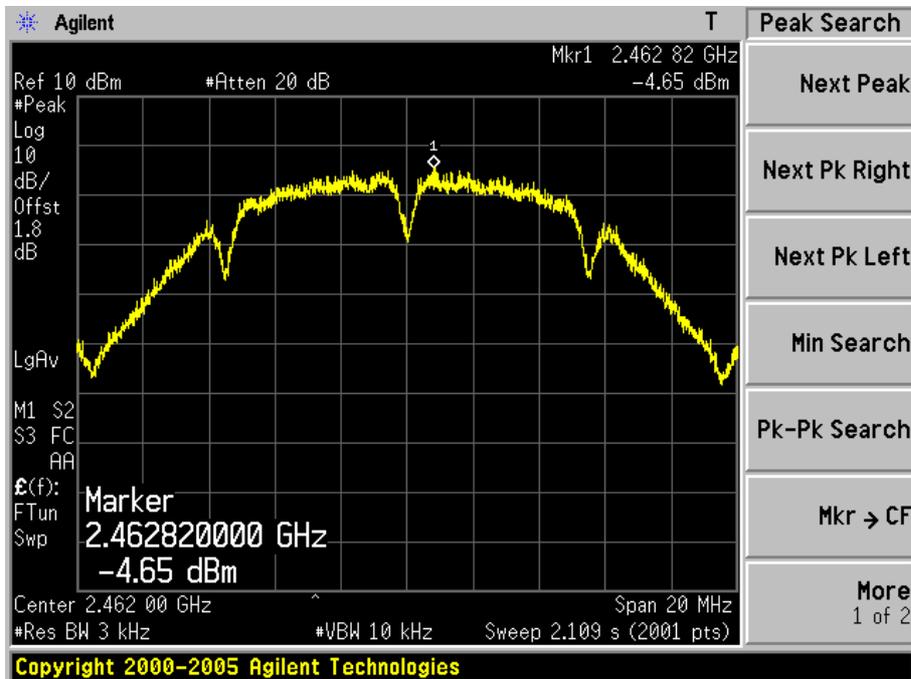
Channel 01 (2412MHz)



Channel 06 (2437MHz)



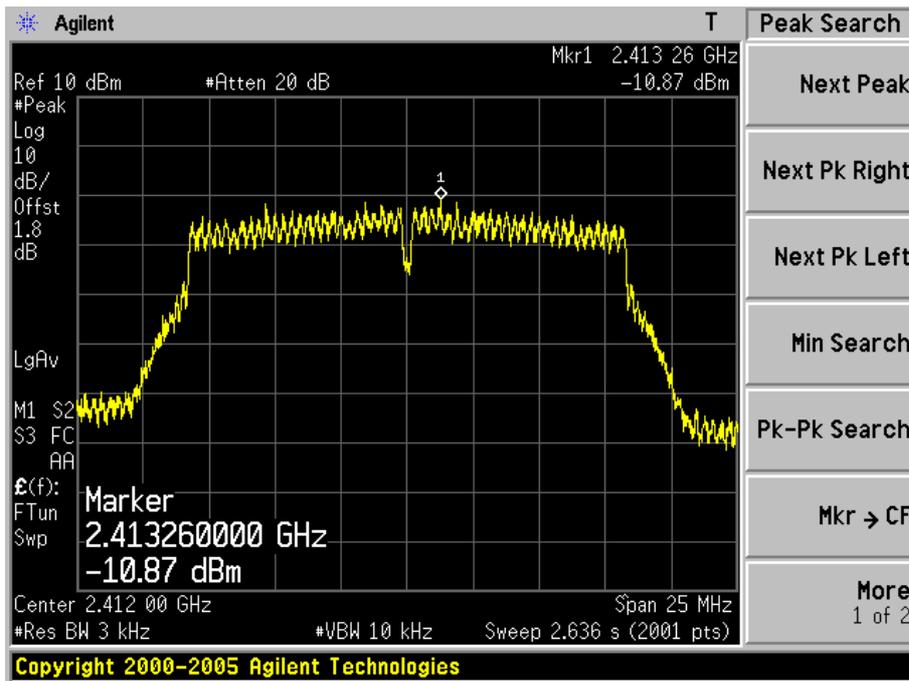
Channel 11 (2462MHz)



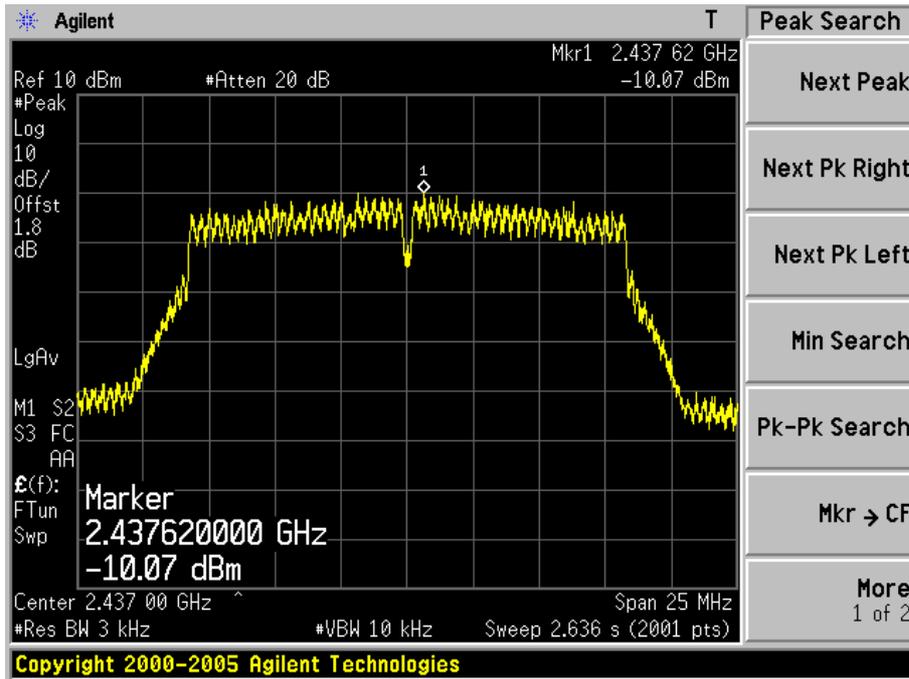
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Reading Value (dBm)	Limit (dBm)	Result
01	2412	-10.87	8	Pass
06	2437	-10.07	8	Pass
11	2462	-10.62	8	Pass

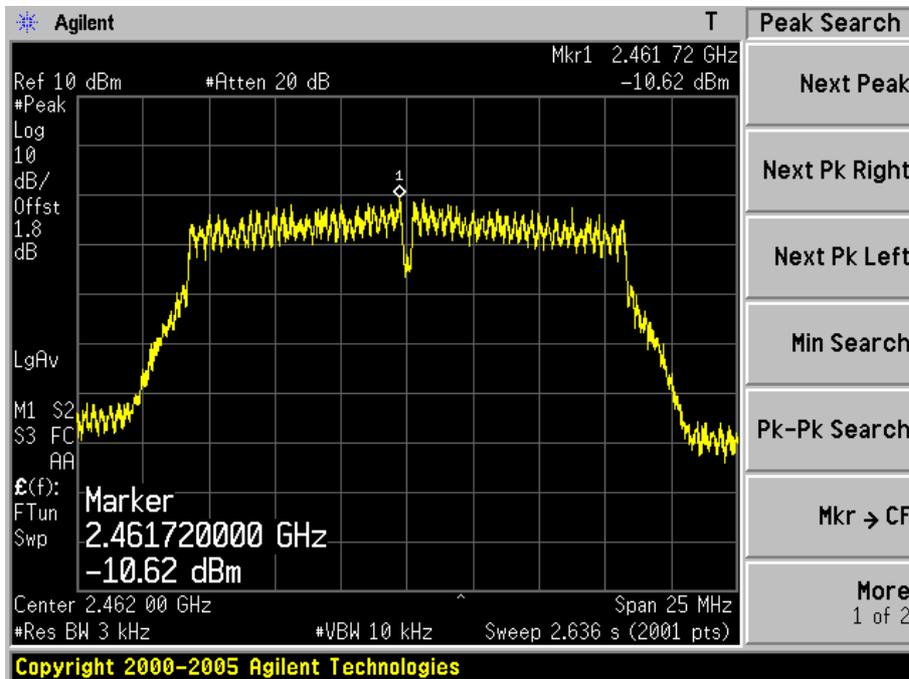
Channel 01 (2412MHz)



Channel 06 (2437MHz)



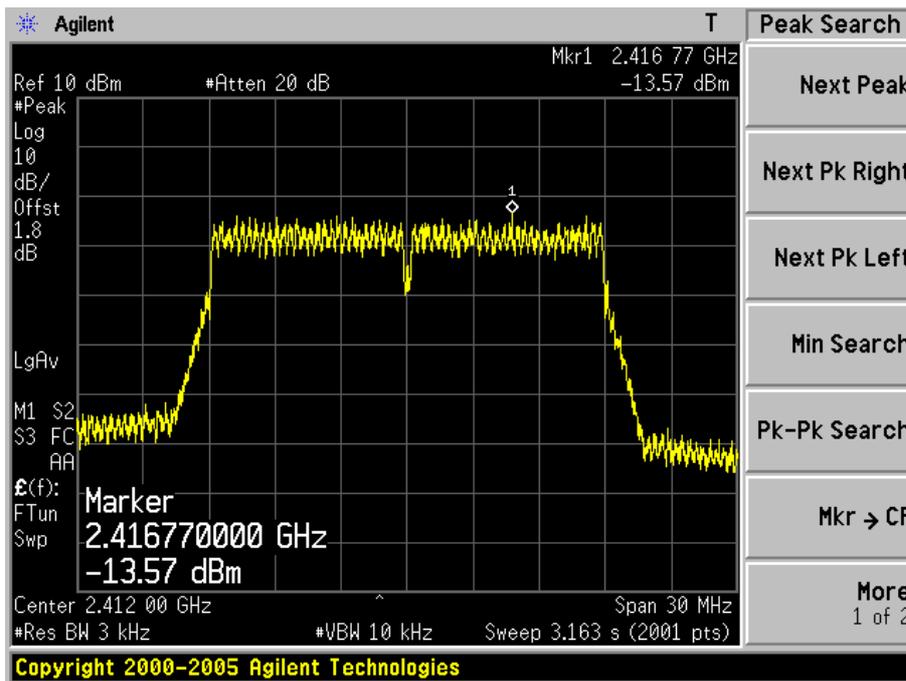
Channel 11 (2462MHz)



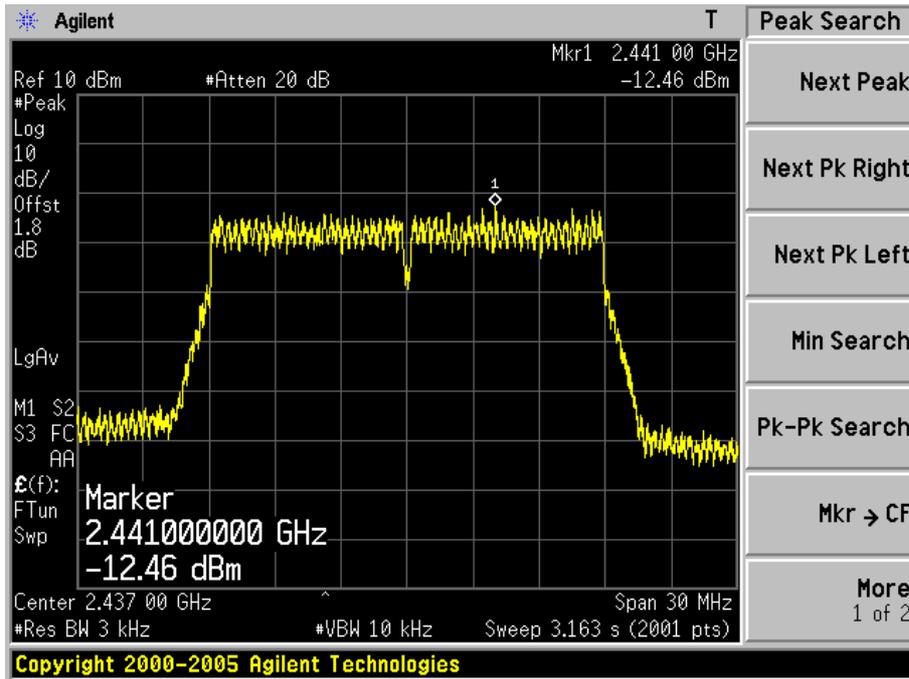
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
01	2412	-13.57	8	Pass
06	2437	-12.46	8	Pass
11	2462	-12.40	8	Pass

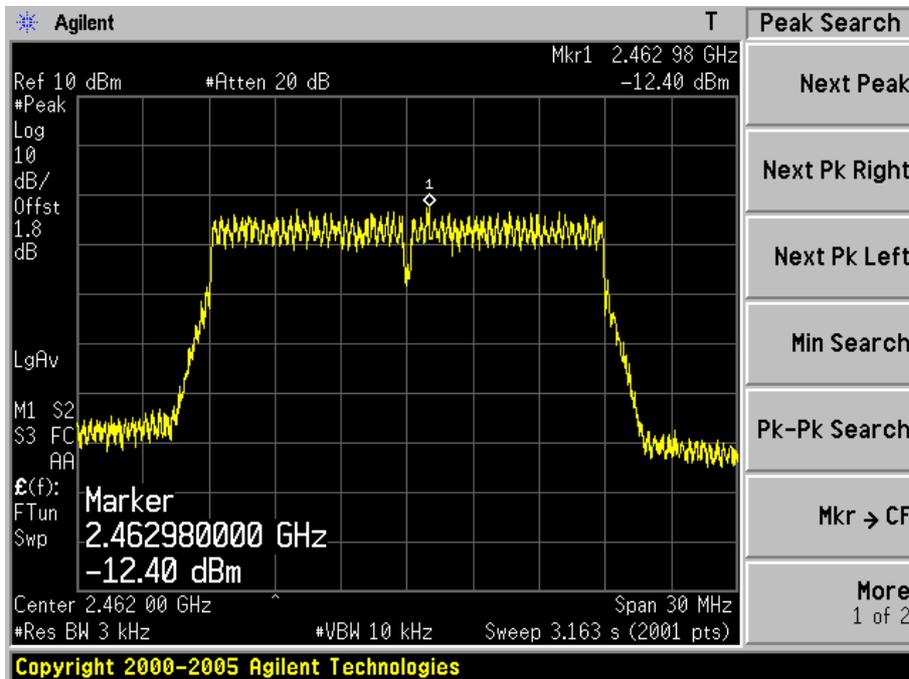
Channel 01 (2412MHz)



Channel 06 (2437MHz)



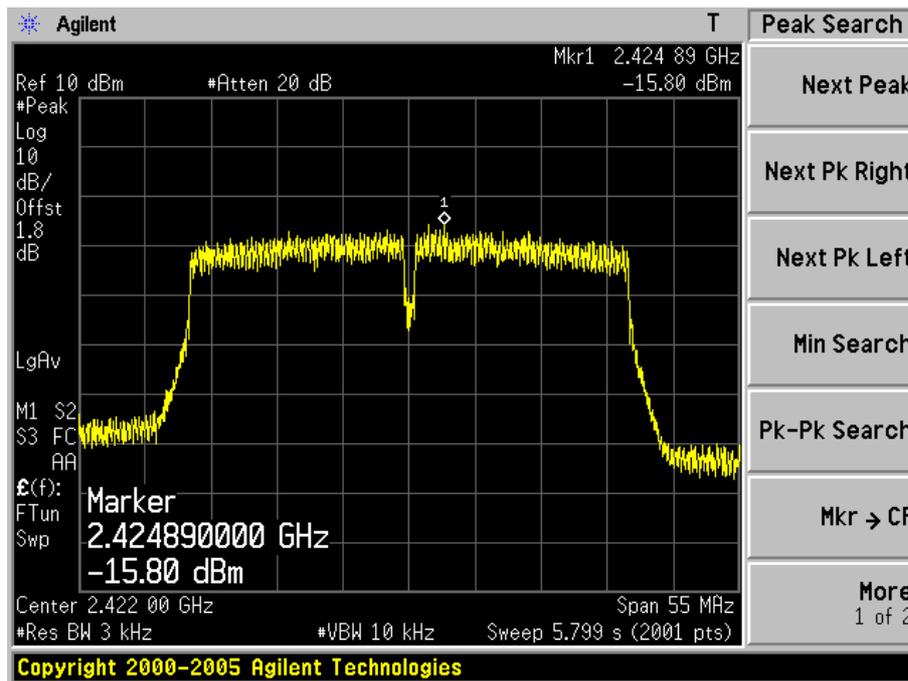
Channel 11 (2462MHz)



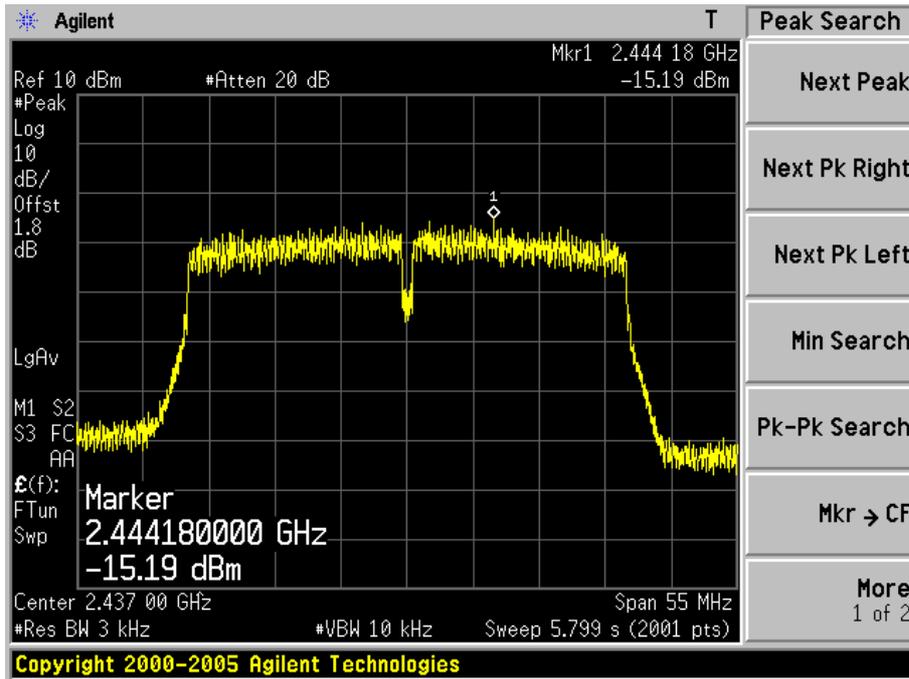
Product	:	WCDMA Digital Mobile Phone
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
03	2422	-15.80	8	Pass
06	2437	-15.19	8	Pass
09	2452	-15.89	8	Pass

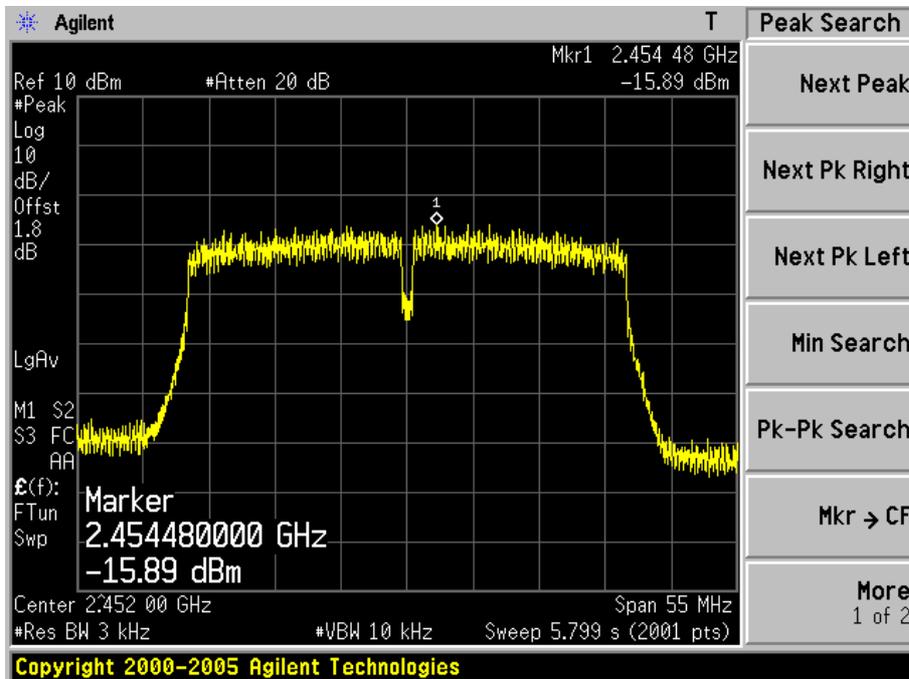
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



The End