

FCC TEST REPORT

(PART 27)

REPORT NO.: RF140312C09-2

MODEL NO.: N435

FCC ID: P4Q-N435

RECEIVED: Mar. 12, 2014

TESTED: Jul. 02, 2014 ~ Jul. 08, 2014

ISSUED: Jul. 25, 2014

APPLICANT: MiTAC International Corp.

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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TABLE OF CONTENTS

RELEASE CONTROL RECORD.....	3
1 CERTIFICATION	4
2 SUMMARY OF TEST RESULTS.....	5
2.1 MEASUREMENT UNCERTAINTY	5
2.2 TEST SITE AND INSTRUMENTS	6
3 GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 CONFIGURATION OF SYSTEM UNDER TEST	8
3.3 DESCRIPTION OF SUPPORT UNITS	8
3.4 DESCRIPTION OF TEST MODES	9
3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	10
4 TEST TYPES AND RESULTS.....	11
4.1 OUTPUT POWER MEASUREMENT	11
4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	11
4.1.2 TEST PROCEDURES	11
4.1.3 TEST SETUP	12
4.1.4 TEST RESULTS	13
4.2 FREQUENCY STABILITY MEASUREMENT	15
4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	15
4.2.2 TEST PROCEDURE	15
4.2.3 TEST SETUP	15
4.2.4 TEST RESULTS	16
4.3 OCCUPIED BANDWIDTH MEASUREMENT	17
4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	17
4.3.2 TEST SETUP	17
4.3.3 TEST PROCEDURES	17
4.3.4 TEST RESULTS	18
4.4 PEAK TO AVERAGE RATIO.....	19
4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	19
4.4.2 TEST SETUP	19
4.4.3 TEST PROCEDURES	19
4.4.4 TEST RESULTS	20
4.5 BAND EDGE MEASUREMENT	21
4.5.1 LIMITS OF BAND EDGE MEASUREMENT	21
4.5.2 TEST SETUP	21
4.5.3 TEST PROCEDURES	21
4.5.4 TEST RESULTS	22
4.6 CONDUCTED SPURIOUS EMISSIONS	23
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	23
4.6.2 TEST PROCEDURE	23
4.6.3 TEST SETUP	23
4.6.4 TEST RESULTS	23
4.7 RADIATED EMISSION MEASUREMENT	24
4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT	24
4.7.2 TEST PROCEDURES	24
4.7.3 DEVIATION FROM TEST STANDARD	24
4.7.4 TEST SETUP	25
4.7.5 TEST RESULTS	26
5 INFORMATION ON THE TESTING LABORATORIES	38
6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	39



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140312C09-2	Original release	Jul. 25, 2014

1 CERTIFICATION

PRODUCT: Tablet PC
MODEL NO.: N435
BRAND: Mio ; Mitac ; Code ; Janam ; Stryker
APPLICANT: MiTAC International Corp.
TESTED: Jul. 02, 2014 ~ Jul. 08, 2014
TEST SAMPLE: Production Unit
TEST STANDARDS: **FCC Part 27, Subpart C, L**
FCC Part 2
ANSI C63.4-2003

The above equipment (model: N435) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Ivonne Wu , **DATE** : Jul. 25, 2014
Ivonne Wu / Supervisor

APPROVED BY : Sam Chen , **DATE** : Jul. 25, 2014
Sam Chen / Senior Project Engineer

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

WCDMA			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 27.50(d)(4)	Equivalent Isotropically Radiated Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to Average Ratio	PASS	Meet the requirement of limit.
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -30.02dB at 3465.20MHz.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 15, 2014	Apr. 14, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Worken	RG-213	NA	Nov. 07, 2013	Nov. 06, 2014
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Jul. 18, 2013	Jul. 17, 2014
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102544	Sep. 05, 2012	Sep. 04, 2014
Radio Communication Analyzer	MT8820C	6201300640	Aug. 01, 2013	Jul. 31, 2014

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC 7450F-10.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tablet PC
MODEL NO.	N435
POWER SUPPLY	5Vdc (adapter) 3.7Vdc (Li-ion battery)
MODULATION TECHNOLOGY	QPSK, BPSK
FREQUENCY RANGE	1712.4MHz ~1752.6MHz
EMISSION DESIGNATOR	4M08F9W
MAX. EIRP POWER	313.69mW
ANTENNA TYPE	Fixed Internal Antenna
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to users' manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

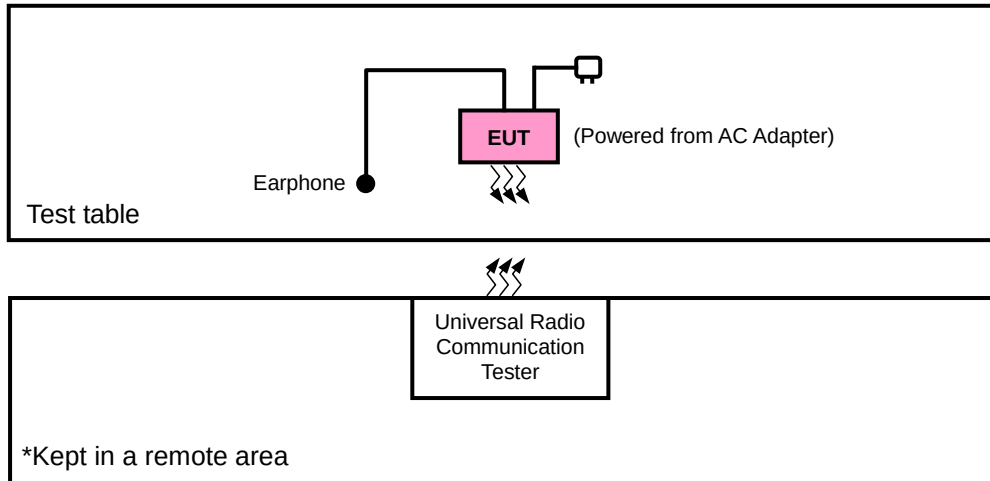
1. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	SPECIFICATION
Adapter 1	TPT	MII050200	I/P: 100-240Vac, 50-60Hz, 0.3A O/P: 5Vdc, 2A
Adapter 2	SINPRO	MPU16A-102	I/P: 100-240Vac, 47-63Hz, 0.33-0.18A O/P: 5Vdc, 2.6A
Battery	Tian Yu	SJS3060	3.7Vdc, 3060mAh
BCR Scanner 1 (2D LED)	Honeywell	N5600, N56X3, N56X0, N5603	--
BCR Scanner 2 (2D)	Code	CR8012	--
BCR Scanner 3 (2D Laser)	Honeywell	N5603, N56X3	--
LCD Panel	TIANME	TM059YDH01	5.88 inch
Front Camera	LITE-ON	10P2SA511	--
Rear Camera	LITE-ON	10P2SF130	--
WWAN Module	Ublox	LISA-U200	--
WLAN, BT Module	Jorjin	WG7833-B0 & WX7833-B0	--

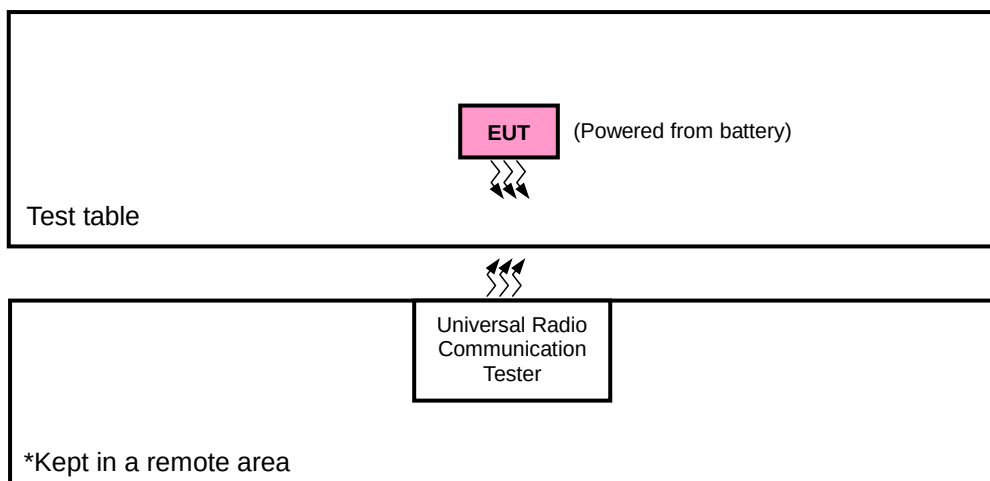
2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.I.R.P. TEST



3.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Earphone	N/A	N/A	N/A	N/A

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

NOTE:

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

3.4 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found and listed as below table. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION	AXIS	
		EIRP	RADIATED EMISSION
A	Tablet w/ 2D Laser Honeywell Scanner + Adapter 1	Z	Z
B	Tablet w/ 2D LED Honeywell Scanner + Adapter 1	Z	X
C	Tablet w/ 2D Code Scanner + Adapter 1	Z	X
D	Tablet w/ 2D Laser Honeywell Scanner + Adapter 2	-	Z
E	Tablet w/ 2D LED Honeywell Scanner + Adapter 2	-	X
F	Tablet w/ 2D Code Scanner + Adapter 2	-	X

WCDMA

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A, B, C	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
A	FREQUENCY STABILITY	1312 to 1513	1413	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 1513	1312, 1513	WCDMA
A	CONDUCTED EMISSION	1312 to 1513	1413	WCDMA
A, B, C, D, E, F	RADIATED EMISSION	1312 to 1513	1413	WCDMA

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP/EIRP	26deg. C, 58%RH	3.7Vdc	Dylan Yang
FREQUENCY STABILITY	26deg. C, 58%RH	3.7Vdc	Dylan Yang
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.7Vdc	Dylan Yang
PEAK TO AVERAGE RATIO	26deg. C, 58%RH	3.7Vdc	Dylan Yang
BAND EDGE	26deg. C, 58%RH	3.7Vdc	Dylan Yang
CONDUCTED EMISSION	26deg. C, 58%RH	3.7Vdc	Dylan Yang
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Will Chen

3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI C63.4-2003

ANSI/TIA/EIA-603-C 2004

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

4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

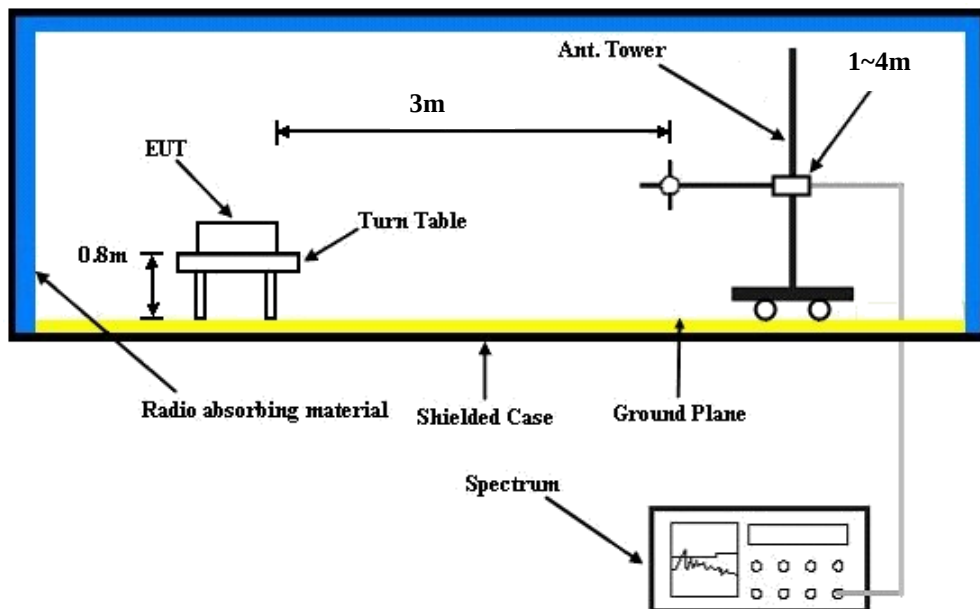
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

Average Conducted Output Power (dBm)

Band	WCDMA IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	22.02	21.84	21.60
HSDPA Subtest-1	20.80	20.62	20.38
HSDPA Subtest-2	20.80	20.62	20.38
HSDPA Subtest-3	20.81	20.63	20.39
HSDPA Subtest-4	20.79	20.61	20.37
HSUPA Subtest-1	21.31	21.13	20.89
HSUPA Subtest-2	19.34	19.16	18.92
HSUPA Subtest-3	20.13	19.95	19.71
HSUPA Subtest-4	19.70	19.52	19.28
HSUPA Subtest-5	21.20	21.02	20.78

AVERAGE EIRP (dBm)

MODE A

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	1312	1712.4	-17.52	42.49	24.97	313.69	H
	1413	1732.6	-17.77	42.33	24.56	285.56	
	1513	1752.6	-17.16	42.10	24.94	311.89	
	1312	1712.4	-21.67	42.99	21.32	135.52	V
	1413	1732.6	-20.96	42.74	21.78	150.66	
	1513	1752.6	-20.42	42.21	21.79	151.01	

MODE B

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	1312	1712.4	-18.02	42.49	24.47	279.58	H
	1413	1732.6	-17.66	42.33	24.67	292.89	
	1513	1752.6	-17.50	42.10	24.60	288.40	
	1312	1712.4	-21.79	42.99	21.20	131.83	V
	1413	1732.6	-21.56	42.74	21.18	131.22	
	1513	1752.6	-20.90	42.21	21.31	135.21	

MODE C

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	1312	1712.4	-17.79	42.49	24.70	294.78	H
	1413	1732.6	-18.08	42.33	24.25	265.89	
	1513	1752.6	-17.39	42.10	24.71	295.80	
	1312	1712.4	-21.68	42.99	21.31	135.21	V
	1413	1732.6	-21.00	42.74	21.74	149.28	
	1513	1752.6	-20.81	42.21	21.40	138.04	

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

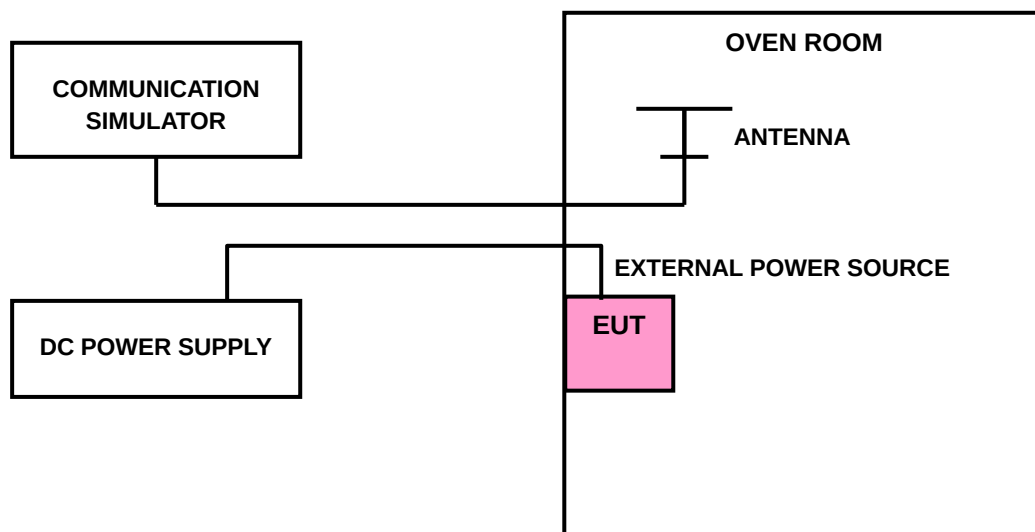
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



4.2.4 TEST RESULTS

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)	LIMIT (ppm)
	WCDMA	
3.7	-0.001	2.5
3.33	-0.001	2.5
4.07	-0.003	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.33Vdc to 4.07Vdc.

FREQUENCY ERROR vs. TEMPERATURE

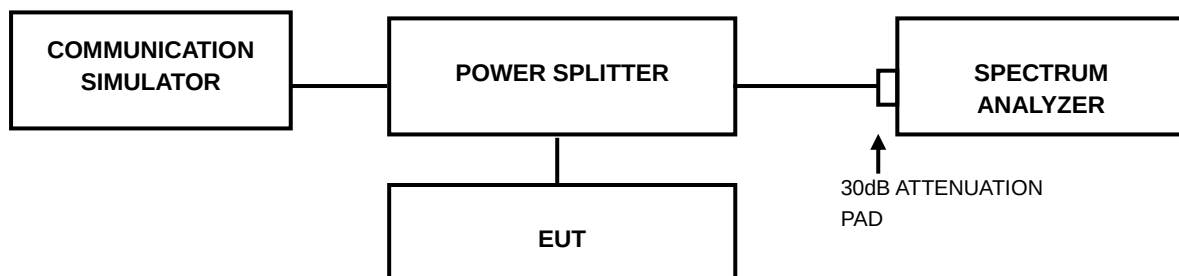
TEMP. (°C)	FREQUENCY ERROR (ppm)	LIMIT (ppm)
	WCDMA	
-30	-0.004	2.5
-20	-0.003	2.5
-10	-0.006	2.5
0	-0.001	2.5
10	-0.002	2.5
20	0.000	2.5
30	-0.002	2.5
40	-0.002	2.5
50	-0.002	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.2 TEST SETUP

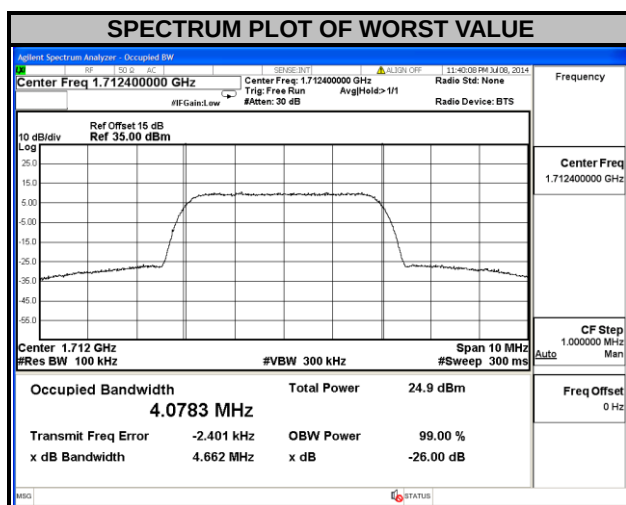


4.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.4 TEST RESULTS

WCDMA		
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
1312	1712.4	4.0783
1413	1732.6	4.0777
1513	1752.6	4.0725

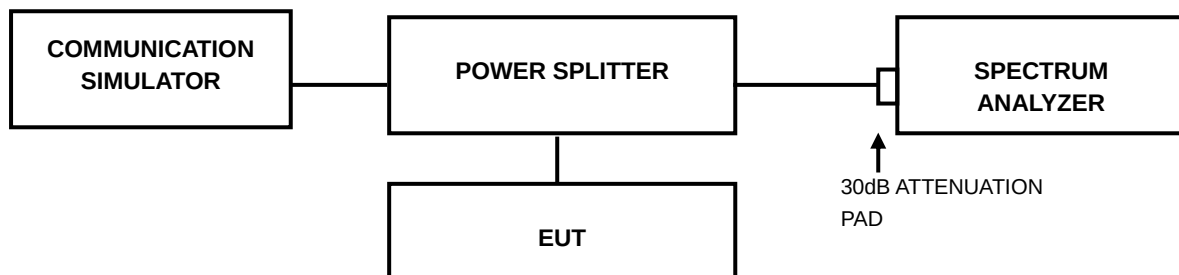


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.4.2 TEST SETUP

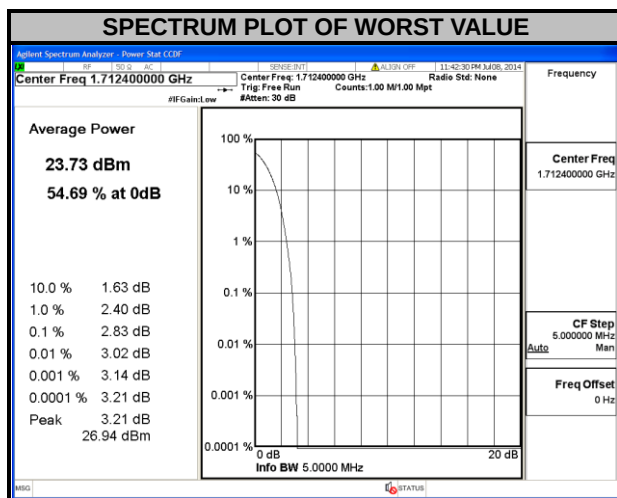


4.4.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.4.4 TEST RESULTS

WCDMA		
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
1312	1712.4	2.83
1413	1732.6	2.82
1513	1752.6	2.79

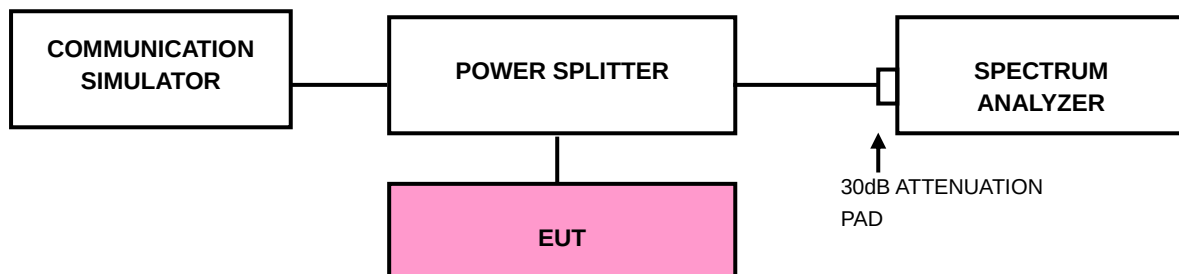


4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

4.5.2 TEST SETUP



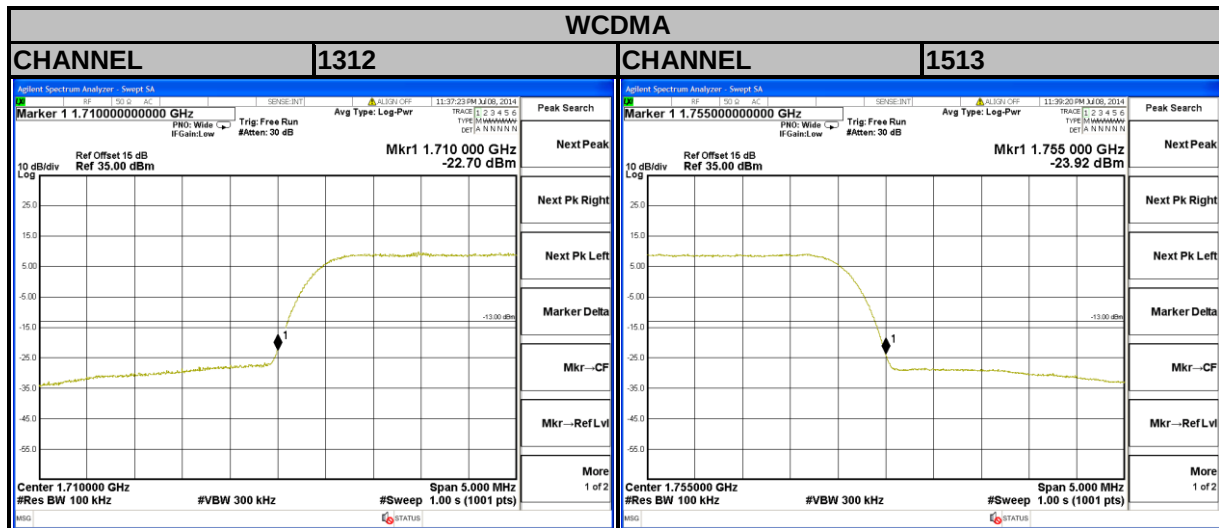
4.5.3 TEST PROCEDURES

- The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz.
- Record the max trace plot into the test report.



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4.5.4 TEST RESULTS



4.6 CONDUCTED SPURIOUS EMISSIONS

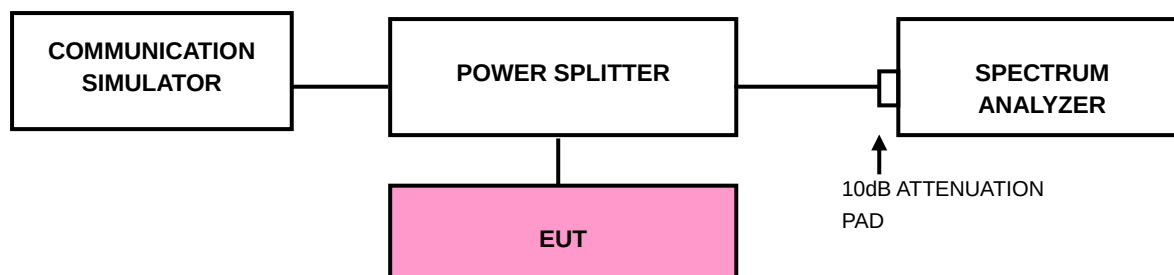
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -13dBm.

4.6.2 TEST PROCEDURE

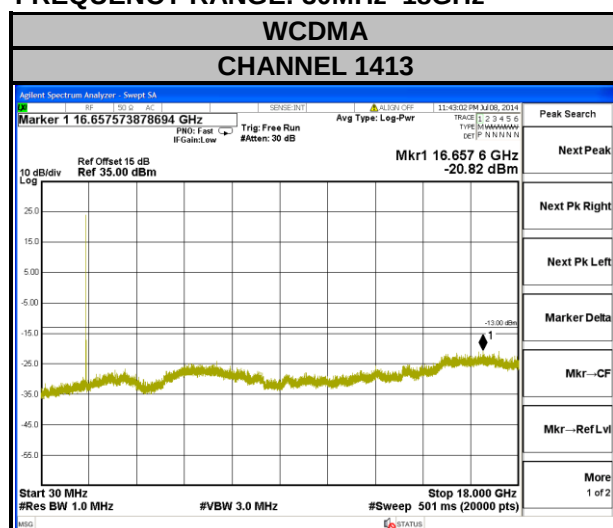
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 8GHz for LTE Band 17 and from 30MHz to 18GHz for LTE Band 4. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

4.6.3 TEST SETUP



4.6.4 TEST RESULTS

FREQUENCY RANGE: 30MHz~18GHz



4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

4.7.2 TEST PROCEDURES

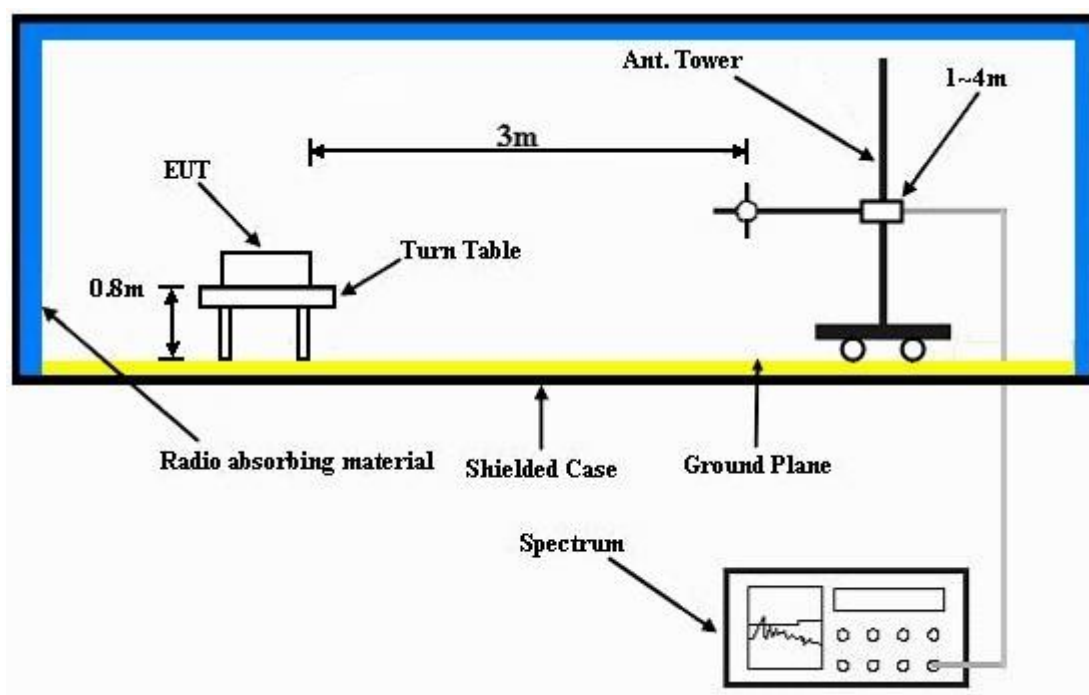
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}.$

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

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 TEST RESULTS

MODE A

WCDMA

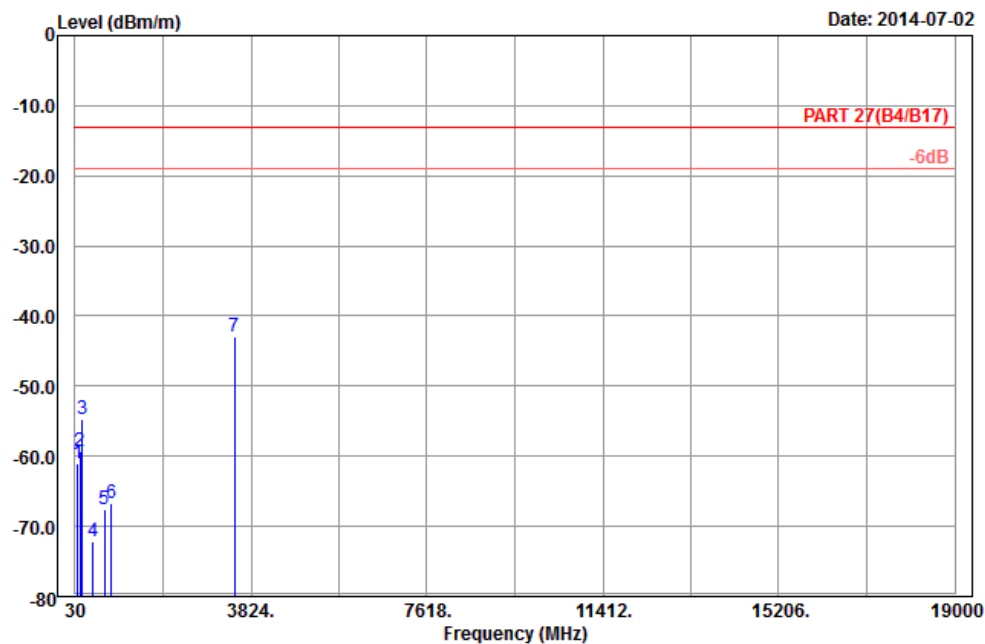


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 13

Date: 2014-07-02



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Horizontal
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : Z (BCR-4)

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	90.48	-60.94	-50.27	-13.00	-47.94	-10.67	Peak
2	137.73	-59.28	-51.60	-13.00	-46.28	-7.68	Peak
3	182.82	-54.69	-49.07	-13.00	-41.69	-5.62	Peak
4	420.40	-72.07	-68.88	-13.00	-59.07	-3.19	Peak
5	660.50	-67.53	-67.34	-13.00	-54.53	-0.19	Peak
6	809.60	-66.61	-68.51	-13.00	-53.61	1.90	Peak
7 pp	3465.20	-43.02	-57.36	-13.00	-30.02	14.34	Peak



A D T

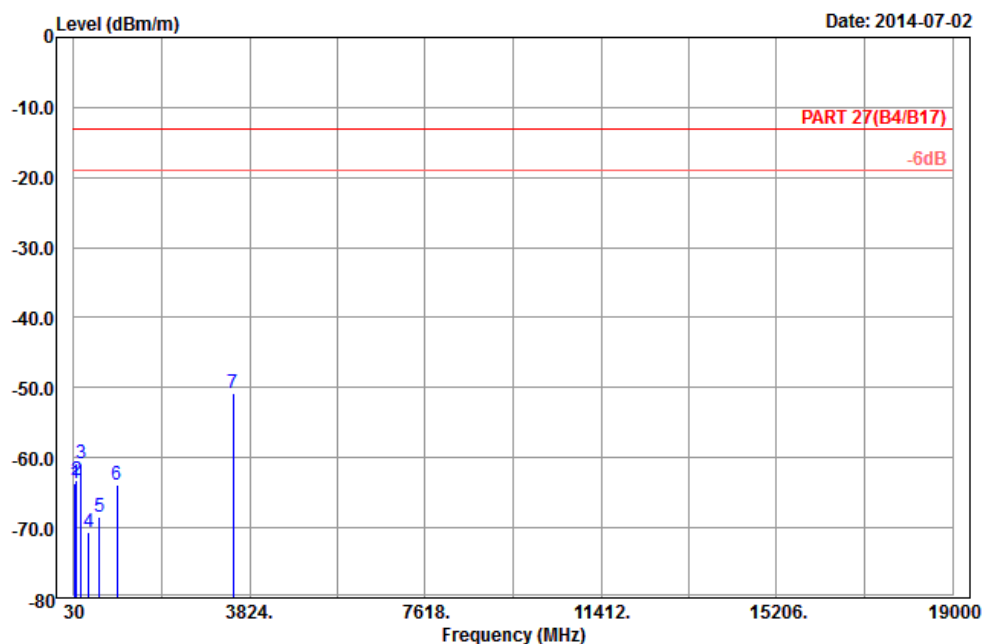


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-07-02



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Vertical
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : Z (BCR-4)

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	55.65	-63.70	-49.64	-13.00	-50.70	-14.06	Peak
2	90.48	-63.32	-52.65	-13.00	-50.32	-10.67	Peak
3	182.82	-60.82	-55.20	-13.00	-47.82	-5.62	Peak
4	348.30	-70.62	-65.22	-13.00	-57.62	-5.40	Peak
5	579.30	-68.39	-67.93	-13.00	-55.39	-0.46	Peak
6	965.00	-63.80	-68.96	-13.00	-50.80	5.16	Peak
7 pp	3465.20	-50.71	-65.05	-13.00	-37.71	14.34	Peak



A D T

MODE B

WCDMA

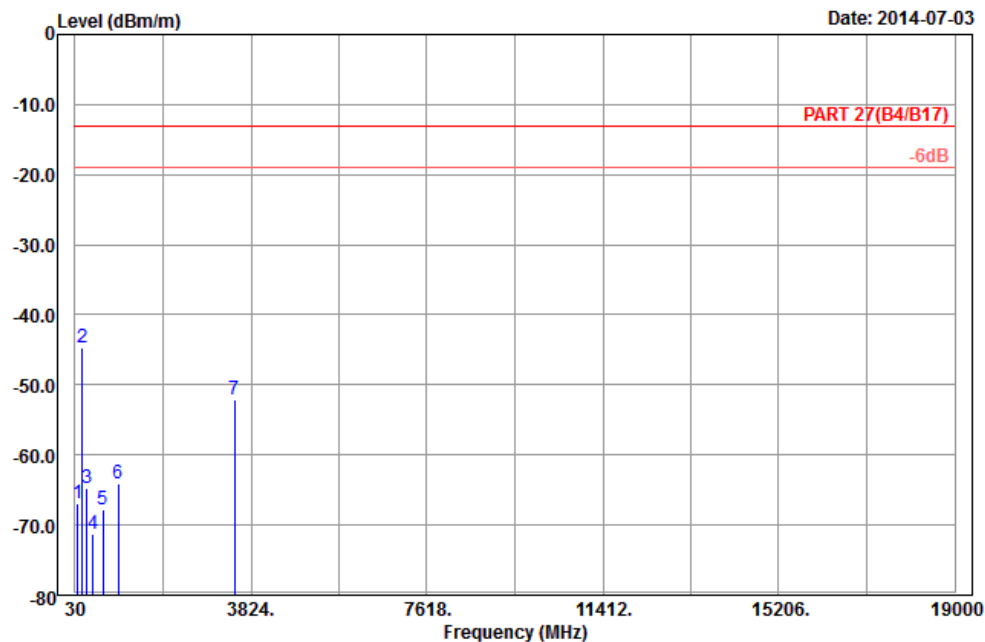


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-07-03



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Horizontal
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-2)

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	90.21	-66.85	-56.18	-13.00	-53.85	-10.67	Peak
2 pp	189.03	-44.66	-38.94	-13.00	-31.66	-5.72	Peak
3	282.45	-64.65	-58.85	-13.00	-51.65	-5.80	Peak
4	419.70	-71.38	-68.19	-13.00	-58.38	-3.19	Peak
5	629.70	-67.71	-67.81	-13.00	-54.71	0.10	Peak
6	959.40	-64.14	-69.28	-13.00	-51.14	5.14	Peak
7	3465.20	-52.02	-66.36	-13.00	-39.02	14.34	Peak



A D T

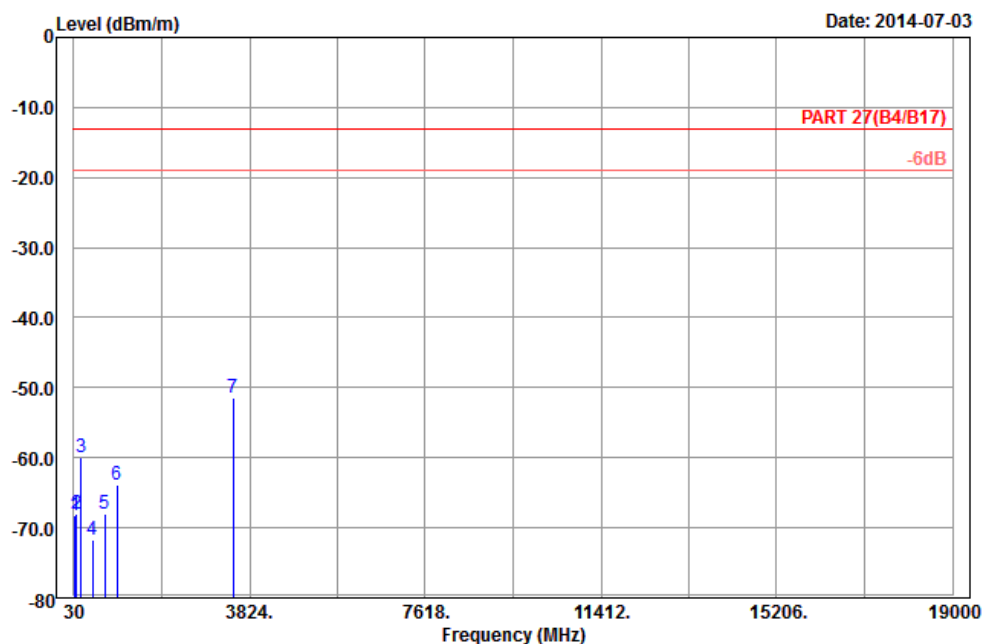


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-07-03



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Vertical
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-2)

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	47.01	-68.34	-55.23	-13.00	-55.34	-13.11	Peak
2	90.48	-67.94	-57.27	-13.00	-54.94	-10.67	Peak
3	193.35	-60.01	-54.14	-13.00	-47.01	-5.87	Peak
4	433.00	-71.61	-68.15	-13.00	-58.61	-3.46	Peak
5	693.40	-67.96	-67.61	-13.00	-54.96	-0.35	Peak
6	960.10	-63.77	-68.91	-13.00	-50.77	5.14	Peak
7 pp	3465.20	-51.46	-65.80	-13.00	-38.46	14.34	Peak



A D T

MODE C

WCDMA

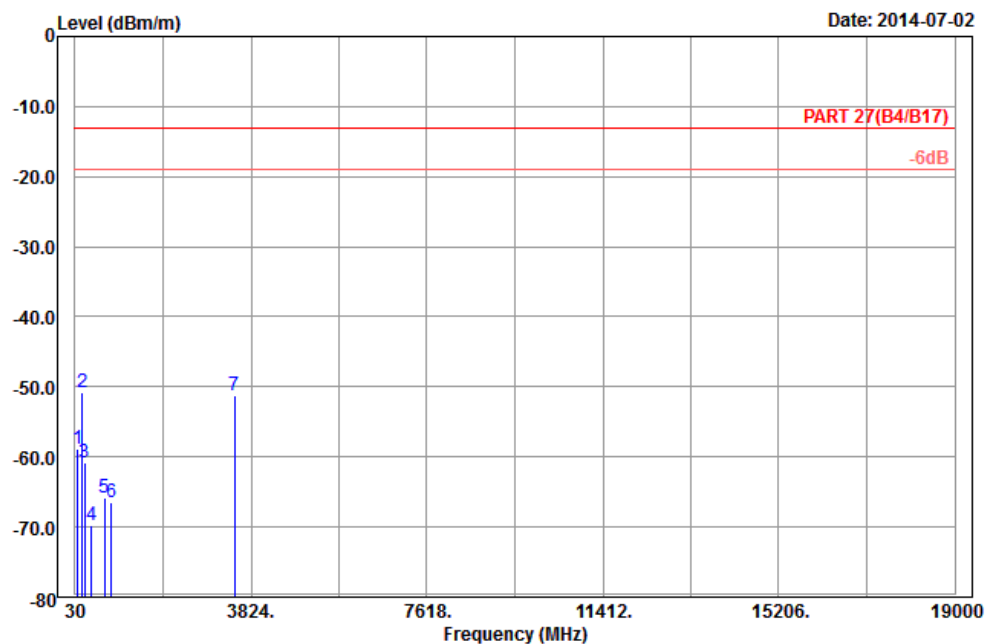


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-07-02



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Horizontal
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-3)

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	91.02	-58.91	-48.29	-13.00	-45.91	-10.62	Peak
2 pp	192.00	-50.80	-44.98	-13.00	-37.80	-5.82	Peak
3	240.06	-60.86	-55.22	-13.00	-47.86	-5.64	Peak
4	388.90	-69.84	-66.53	-13.00	-56.84	-3.31	Peak
5	670.30	-65.90	-65.67	-13.00	-52.90	-0.23	Peak
6	820.10	-66.39	-68.17	-13.00	-53.39	1.78	Peak
7	3465.20	-51.16	-65.50	-13.00	-38.16	14.34	Peak



A D T

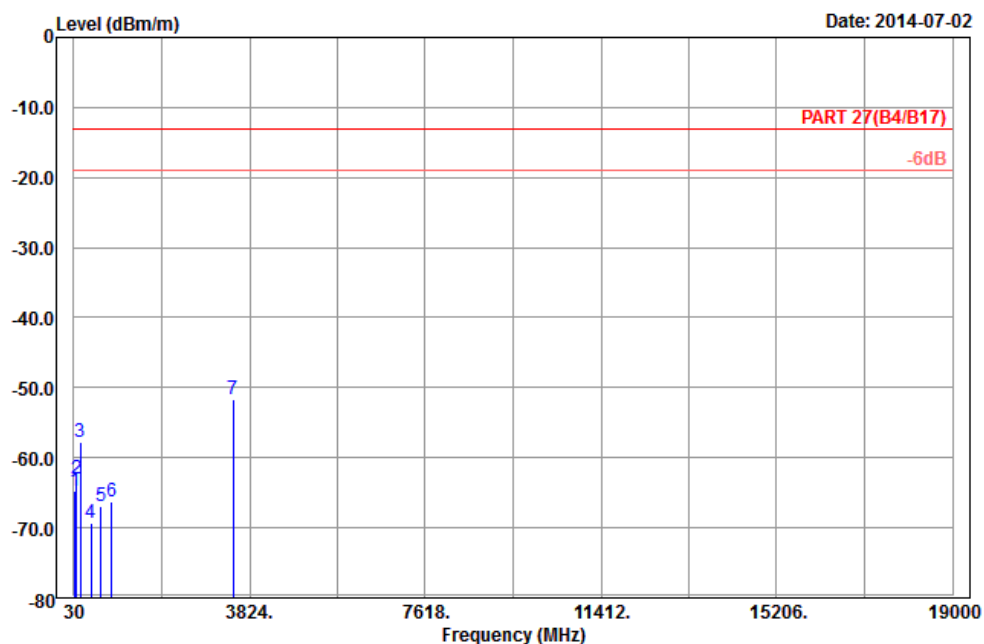


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-07-02



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Vertical
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-3)

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	49.71	-64.67	-50.93	-13.00	-51.67	-13.74	Peak
2	90.75	-63.01	-52.39	-13.00	-50.01	-10.62	Peak
3	176.61	-57.87	-51.88	-13.00	-44.87	-5.99	Peak
4	399.40	-69.24	-66.50	-13.00	-56.24	-2.74	Peak
5	615.00	-67.00	-67.26	-13.00	-54.00	0.26	Peak
6	846.00	-66.30	-67.79	-13.00	-53.30	1.49	Peak
7 pp	3465.20	-51.71	-66.05	-13.00	-38.71	14.34	Peak



A D T

MODE D

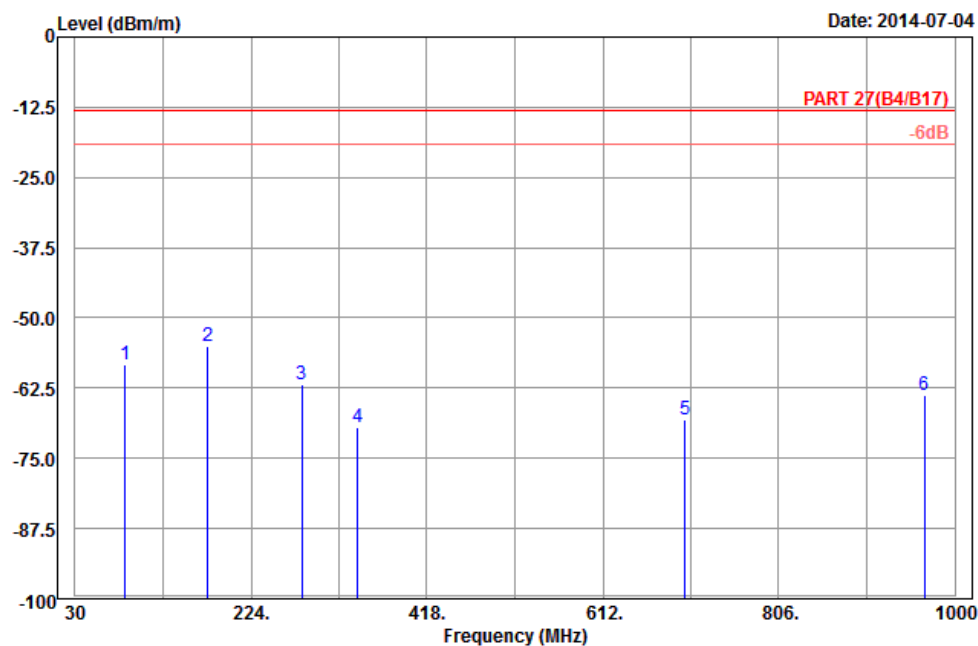
WCDMA



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Horizontal
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : Z (BCR-4 Medical)

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	85.62	-58.28	-47.06	-13.00	-45.28	-11.22	Peak
2	176.07	-55.06	-49.07	-13.00	-42.06	-5.99	Peak
3	280.02	-61.79	-56.01	-13.00	-48.79	-5.78	Peak
4	342.00	-69.55	-64.08	-13.00	-56.55	-5.47	Peak
5	702.50	-68.03	-67.62	-13.00	-55.03	-0.41	Peak
6	967.10	-63.80	-68.96	-13.00	-50.80	5.16	Peak



A D T

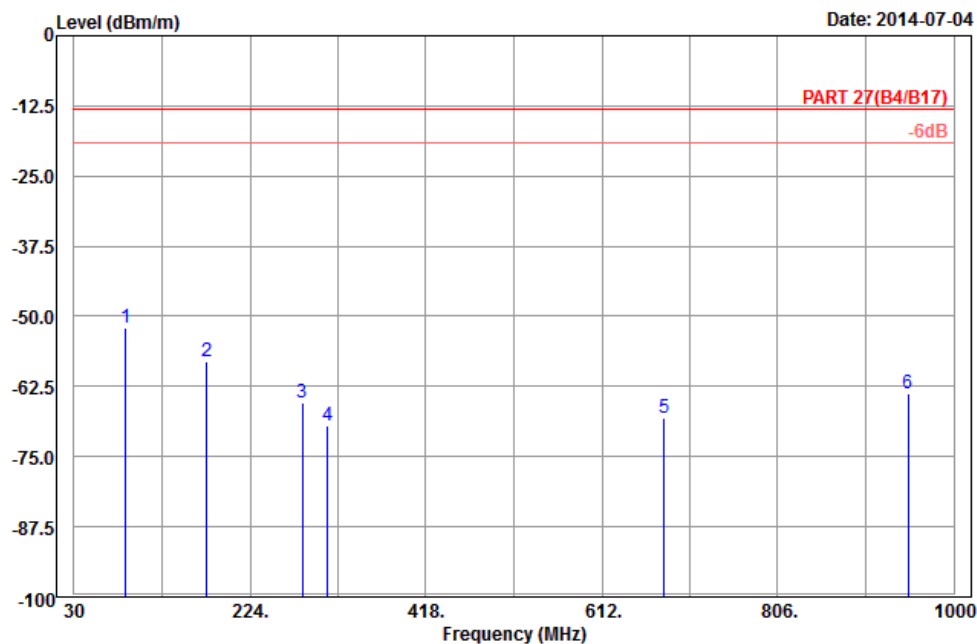


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2014-07-04



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Vertical
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : Z (BCR-4 Medical)

		Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	pp	86.97	-52.06	-41.06	-13.00	-39.06 -11.00 Peak
2		176.07	-58.07	-52.08	-13.00	-45.07 -5.99 Peak
3		281.64	-65.51	-59.72	-13.00	-52.51 -5.79 Peak
4		309.80	-69.35	-63.50	-13.00	-56.35 -5.85 Peak
5		680.80	-68.12	-67.84	-13.00	-55.12 -0.28 Peak
6		949.60	-63.87	-68.98	-13.00	-50.87 5.11 Peak



A D T

MODE E

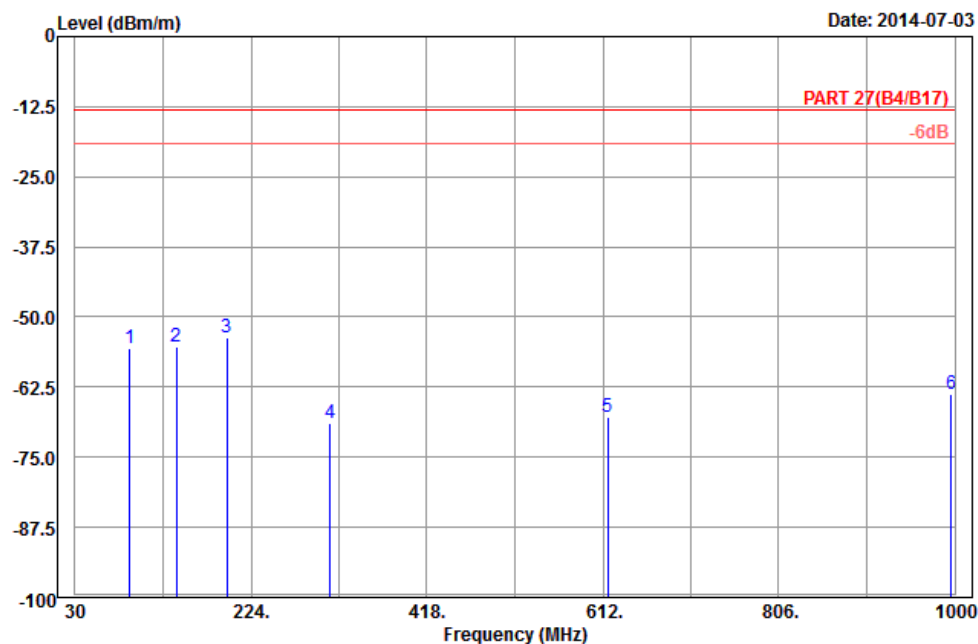
WCDMA



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Horizontal
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-2 Medical)

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	89.94	-55.63	-44.96	-13.00	-42.63	-10.67	Peak
2	141.78	-55.35	-47.61	-13.00	-42.35	-7.74	Peak
3 pp	197.67	-53.68	-47.59	-13.00	-40.68	-6.09	Peak
4	311.20	-68.84	-63.02	-13.00	-55.84	-5.82	Peak
5	617.10	-67.81	-68.05	-13.00	-54.81	0.24	Peak
6	995.80	-63.66	-68.92	-13.00	-50.66	5.26	Peak



A D T

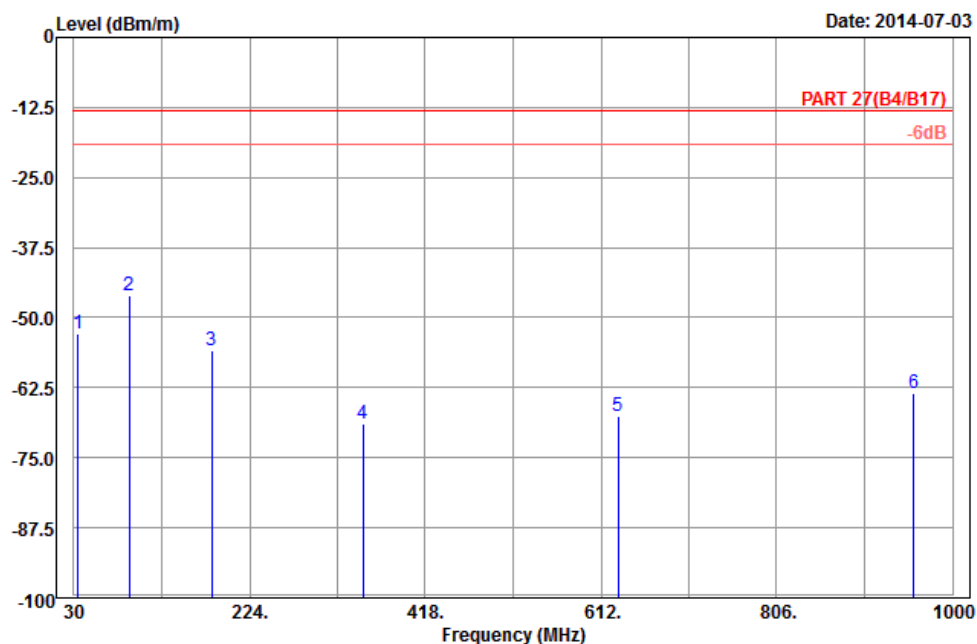


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2014-07-03



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Vertical
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-2 Medical)

		Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	34.86	-52.87	-41.77	-13.00	-39.87	-11.10 Peak
2	90.75	-46.13	-35.51	-13.00	-33.13	-10.62 Peak
3	182.01	-55.87	-50.26	-13.00	-42.87	-5.61 Peak
4	349.00	-68.97	-63.58	-13.00	-55.97	-5.39 Peak
5	631.10	-67.45	-67.52	-13.00	-54.45	0.07 Peak
6	957.30	-63.46	-68.59	-13.00	-50.46	5.13 Peak



A D T

MODE F

WCDMA

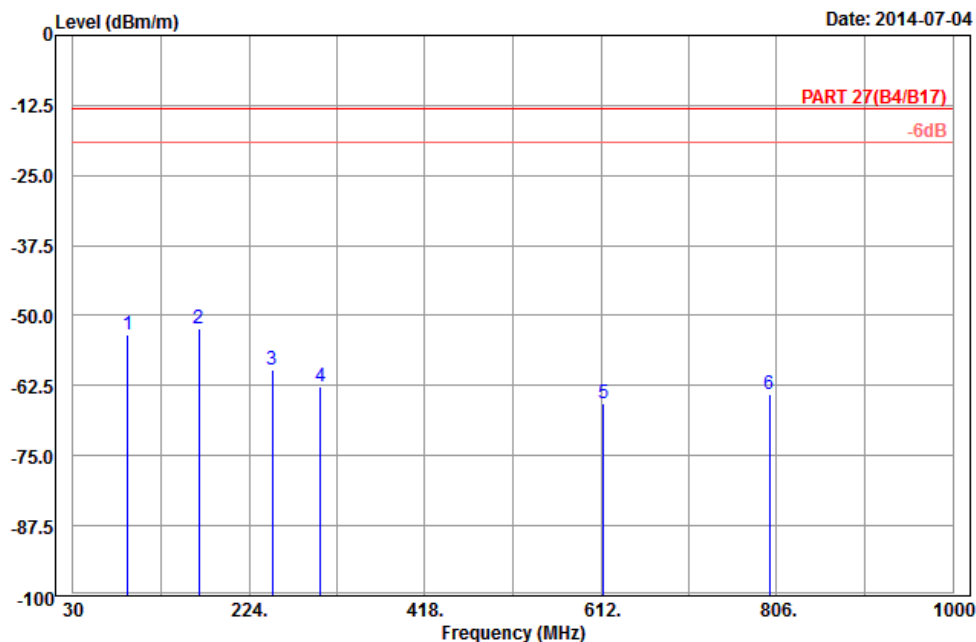


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2014-07-04



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Horizontal
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-3 Medical)

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	90.48	-53.36	-42.69	-13.00	-40.36	-10.67	Peak
2	pp 169.05	-52.34	-45.54	-13.00	-39.34	-6.80	Peak
3	249.51	-59.69	-54.17	-13.00	-46.69	-5.52	Peak
4	302.80	-62.66	-56.73	-13.00	-49.66	-5.93	Peak
5	615.00	-65.75	-66.01	-13.00	-52.75	0.26	Peak
6	798.40	-63.99	-65.87	-13.00	-50.99	1.88	Peak



A D T

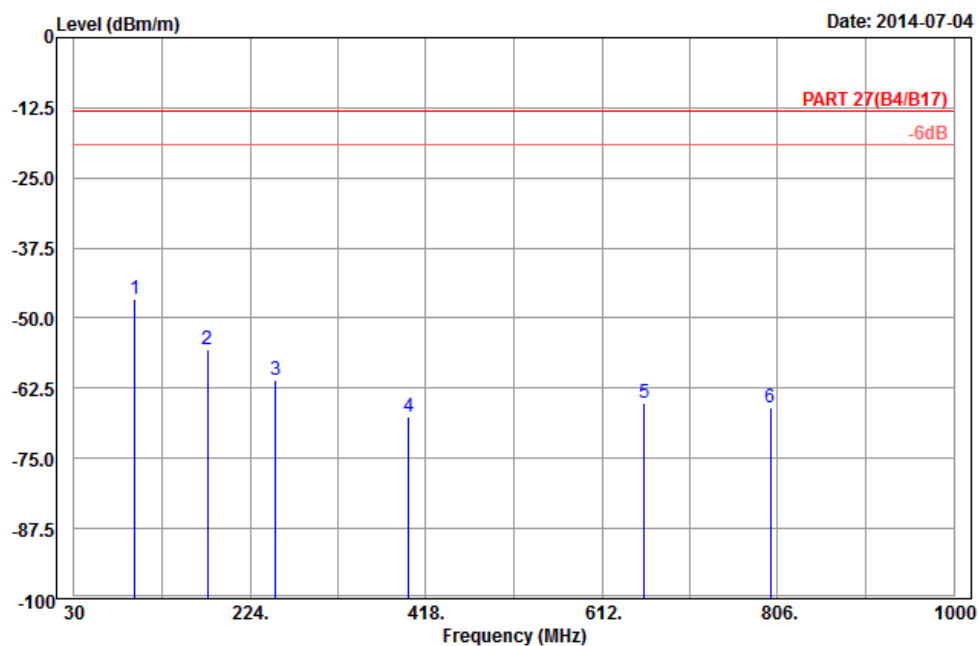


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2014-07-04



Site : 966 chamber 5
Condition: PART 27(B4/B17) 3m Vertical
Remark : Band IV_Link_CH1413
Tested by: Will Chen
Plane : X (BCR-3 Medical)

		Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp	97.23	-46.69	-36.40	-13.00	-33.69	-10.29 Peak
2	176.88	-55.58	-49.59	-13.00	-42.58	-5.99 Peak
3	251.94	-60.93	-55.41	-13.00	-47.93	-5.52 Peak
4	399.40	-67.51	-64.77	-13.00	-54.51	-2.74 Peak
5	659.10	-65.09	-64.91	-13.00	-52.09	-0.18 Peak
6	798.40	-65.96	-67.84	-13.00	-52.96	1.88 Peak

5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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

6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---