

FCC Test Report

(PART 24)

Report No.: RF150629C15-1

FCC ID: TS8ILP0001F

Test Model: ILP0001F

Received Date: Jun. 29, 2015

Test Date: Jul. 01, 2015 ~ Jul. 03, 2015

Issued Date: Nov. 13, 2015

Applicant: 3J Tech. Co., Ltd.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C)

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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Release Control Record

Issue No.	Description	Date Issued
RF150629C15-1	Original Release	Nov. 13, 2015

1 Certificate of Conformity

Product: IDEAL LIFE POD

Brand: IDEAL LIFE

Test Model: ILP0001F

Sample Status: Identical Prototype

Applicant: 3J Tech. Co., Ltd.

Test Date: Jul. 01, 2015 ~ Jul. 03, 2015

Standards: FCC Part 24, Subpart E

The above equipment 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 : Evonne Liu, **Date:** Nov. 13, 2015
Evonne Liu / Specialist

Approved by : Stanley Wu, **Date:** Nov. 13, 2015
Stanley Wu / Assistant Manager

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	PASS	Meet the requirement of limit.
2.1046 24.232(d)	Peak To Average Ratio	PASS	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 24.238(b)	Occupied Bandwidth	PASS	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -24.04dB at 40.67MHz.

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	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Jan.21, 2015	Jan.21, 2016
Spectrum Analyzer Agilent	N9010A	MY52220314	Sep.03, 2015	Sep.02, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 04, 2016
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 09, 2015	Feb. 09, 2016
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Feb. 04, 2015	Feb. 04, 2016
Loop Antenna	EM-6879	269	Jul. 31, 2015	Jul. 30, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 12, 2014	Dec. 11, 2015
Preamplifier EMCI	EMC 184045	980116	Jan. 09, 2015	Jan. 08, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2014	Dec. 26, 2015
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	Cable-CH10-03(2 50130/4)	Oct. 15, 2015	Oct. 14, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	Cable-Ch10-02(3 09219+295011)	Oct. 12, 2015	Oct. 11, 2016
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 15, 2015	Oct. 14, 2016
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
Radio Communication Analyzer	MT8820C	6201300640	Aug. 10, 2015	Aug. 09, 2017

- 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 preamplifier (model: EMC 184045) 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 IC7450F-10.

3 General Information

3.1 General Description of EUT

Product	IDEAL LIFE POD	
Brand	IDEAL LIFE	
Test Model	ILP0001F	
Status of EUT	Identical Prototype	
Power Supply Rating	6.3Vdc (adapter)	
Modulation Type	GSM/GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	BPSK
Frequency Range	GSM/GPRS/EDGE	1850.2 ~ 1909.8 MHz
	WCDMA	1852.4 ~ 1907.6 MHz
Max. EIRP Power	GSM/GPRS	417.16mW
	WCDMA	114.37mW
Emission Designator	GSM/GPRS	245KGXW
	WCDMA	4M16F9W
Antenna Type	Fixed External Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

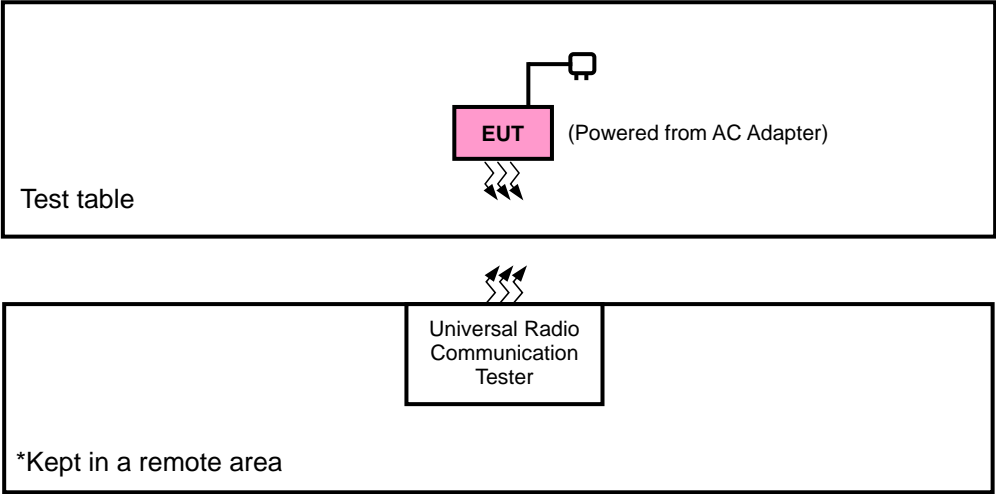
Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Dongguan Gaoyi Electronic Co., Ltd.	RSS1002-063063-W2-B	I/P: 100-240Vac, 50/60Hz, 0.2A O/P: 6.3Vdc, 1.0A

2. The above EUT information is declared by 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



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 Test Mode Applicability and Tested Channel Detail

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 when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP	Radiated Emission
GSM	Z-plane	Z-axis
WCDMA	Z-plane	Z-axis

GSM MODE

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	512 to 810	512, 661, 810	GSM
-	Frequency Stability	512 to 810	661	GSM
-	Occupied Bandwidth	512 to 810	512, 661, 810	GSM
-	Band Edge	512 to 810	512, 810	GSM
-	Peak to Average Ratio	512 to 810	512, 661, 810	GSM
-	Conducuted Emission	512 to 810	661	GSM
-	Radiated Emission	512 to 810	661	GSM

WCDMA MODE

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Frequency Stability	9262 to 9538	9400	WCDMA
-	Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
-	Band Edge	9262 to 9538	9262, 9538	WCDMA
-	Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
-	Conducuted Emission	9262 to 9538	9400	WCDMA
-	Radiated Emission	9262 to 9538	9400	WCDMA

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	26deg. C, 58%RH	6.3Vdc	Anson Lin
Frequency Stability	26deg. C, 58%RH	6.3Vdc	Luke Chen
Occupied Bandwidth	26deg. C, 58%RH	6.3Vdc	Luke Chen
Band Edge	26deg. C, 58%RH	6.3Vdc	Luke Chen
Peak To Average Ratio	26deg. C, 58%RH	6.3Vdc	Luke Chen
Conducuted Emission	26deg. C, 58%RH	6.3Vdc	Luke Chen
Radiated Emission	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

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 24

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

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

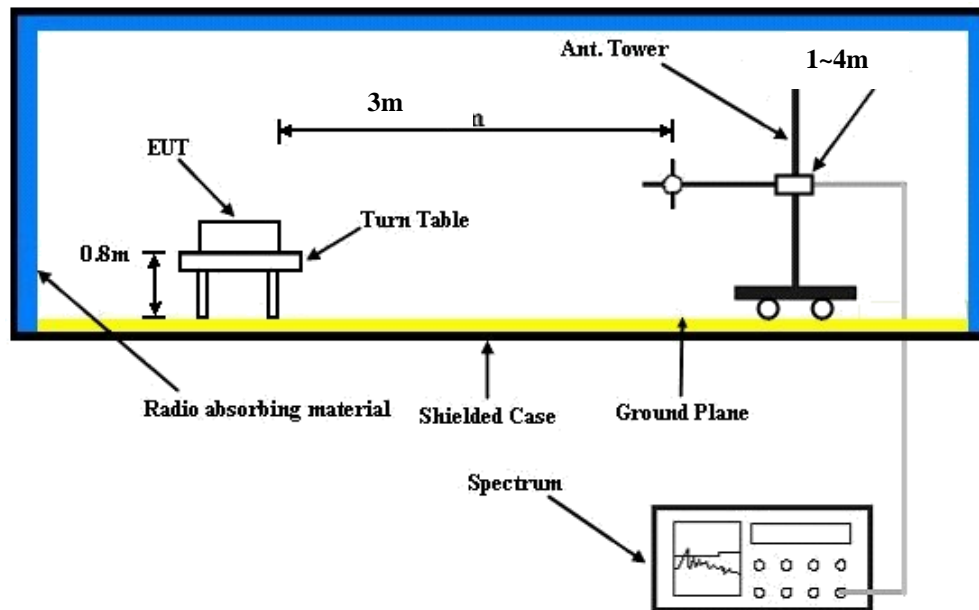
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA and CDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$.

Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. 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:



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

CONDUCTED POWER MEASUREMENT:



4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS 8	27.72	28.00	28.11
GPRS 10	27.61	27.84	27.92
EDGE 8	23.99	24.27	24.38
EDGE 10	23.80	24.08	24.19
EDGE 11	23.51	23.79	23.90
EDGE 12	23.20	23.48	23.59

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.09	22.05	21.68
HSDPA Subtest-1	21.61	21.69	21.31
HSDPA Subtest-2	21.74	21.77	21.43
HSDPA Subtest-3	21.20	21.26	20.94
HSDPA Subtest-4	21.17	21.24	20.92
HSUPA Subtest-1	21.58	21.27	21.15
HSUPA Subtest-2	19.82	19.64	19.66
HSUPA Subtest-3	19.71	19.68	19.38
HSUPA Subtest-4	20.70	20.38	20.00
HSUPA Subtest-5	21.70	21.50	21.20

EIRP Power (dBm)

GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	512	1850.2	-14.23	36.57	22.34	171.47	H
	661	1880.0	-14.76	37.22	22.46	176.36	
	810	1909.8	-14.92	37.18	22.26	168.34	
	512	1850.2	-11.89	37.65	25.76	376.79	V
	661	1880.0	-11.38	37.58	26.20	417.16	
	810	1909.8	-11.60	37.48	25.88	387.26	

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	9262	1852.4	-19.26	36.57	17.31	53.85	H
	9400	1880.0	-19.78	37.22	17.44	55.51	
	9538	1907.6	-19.84	37.18	17.34	54.23	
	9262	1852.4	-18.43	37.65	19.22	83.58	V
	9400	1880.0	-17.00	37.58	20.58	114.37	
	9538	1907.6	-18.14	37.48	19.34	85.90	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

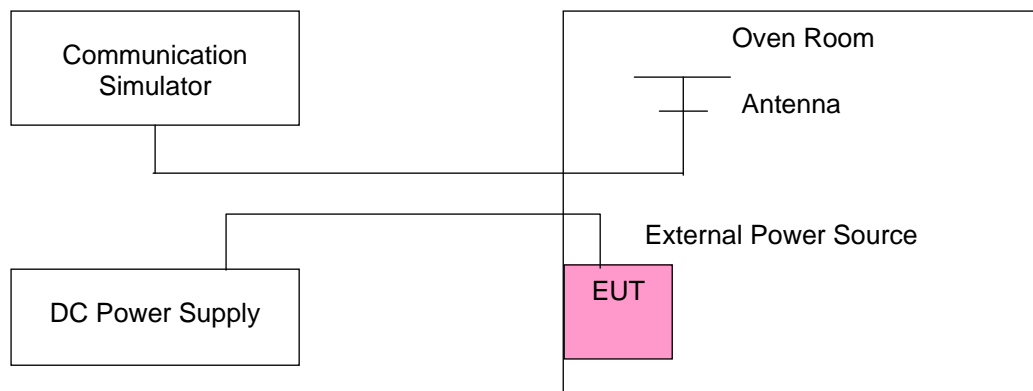
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 ± 0.5 °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)
	GSM	WCDMA	
6.0	0.002	0.001	2.5
6.3	0.001	0.002	2.5
12.0	0.001	0.001	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 6.0Vdc to 12.0Vdc.

Frequency Error vs. Temperature

Temp. (°C)	Frequency Error (ppm)		Limit (ppm)
	GSM	WCDMA	
-30	0.001	0.002	2.5
-20	0.002	0.001	2.5
-10	0.001	0.001	2.5
0	-0.001	0.001	2.5
10	-0.001	0.002	2.5
20	-0.001	-0.001	2.5
30	-0.002	-0.001	2.5
40	0.001	-0.001	2.5
50	0.001	-0.002	2.5
55	0.001	-0.001	2.5

Note:

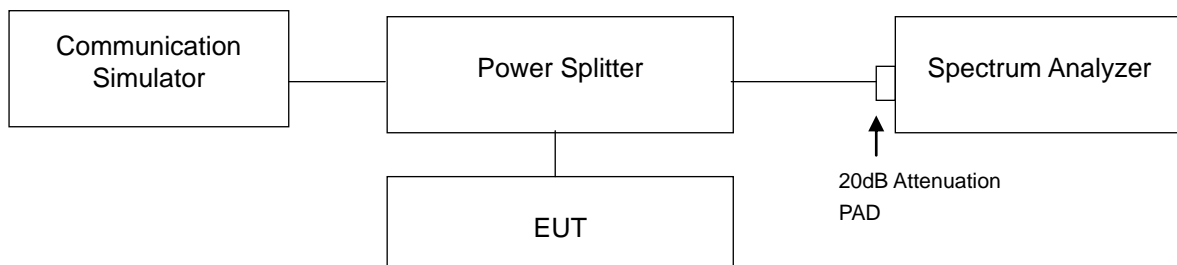
1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 55°C.
2. The EUT would shut down automatically as below -30°C.

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

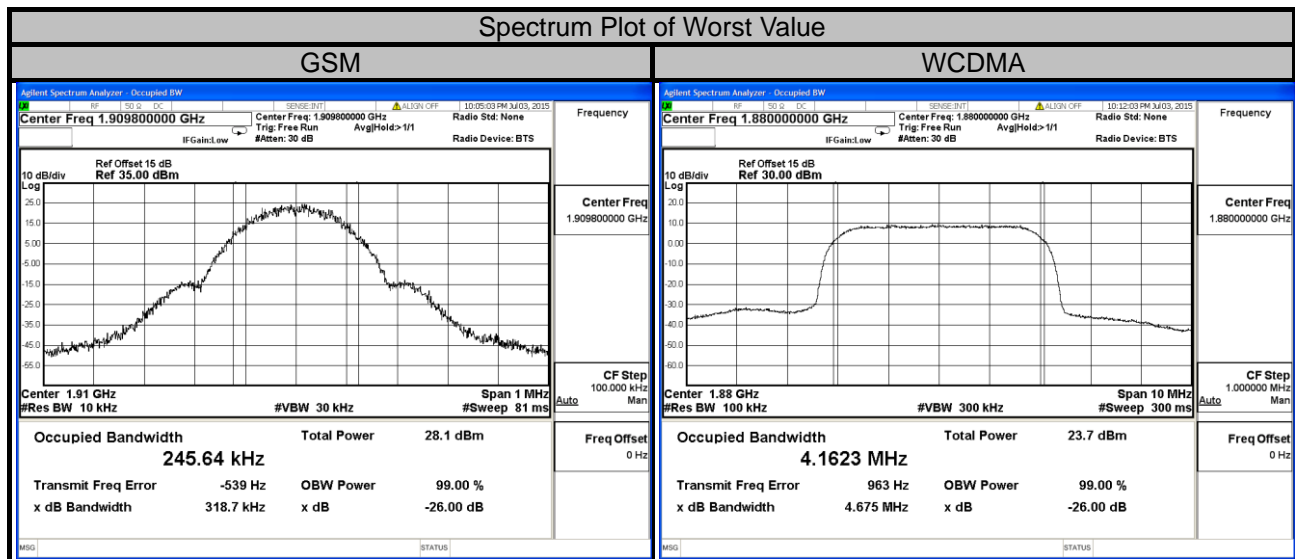
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.2 Test Setup



4.3.3 Test Result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
		GSM			WCDMA
512	1850.2	245.61	9262	1852.4	4.1596
661	1880.0	244.09	9400	1880.0	4.1623
810	1909.8	245.64	9538	1907.6	4.1607

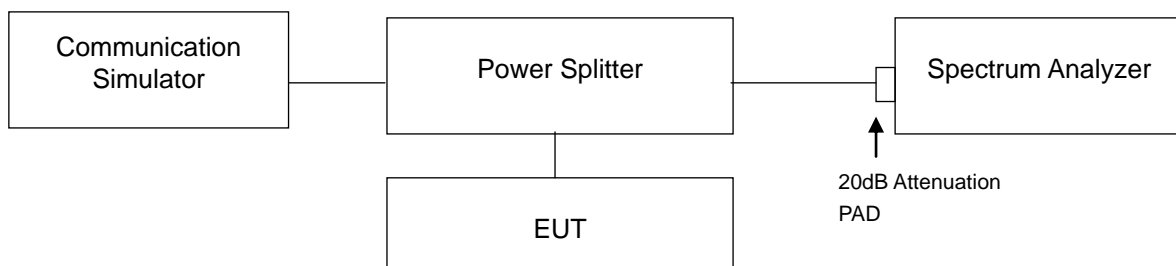


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 Test Setup



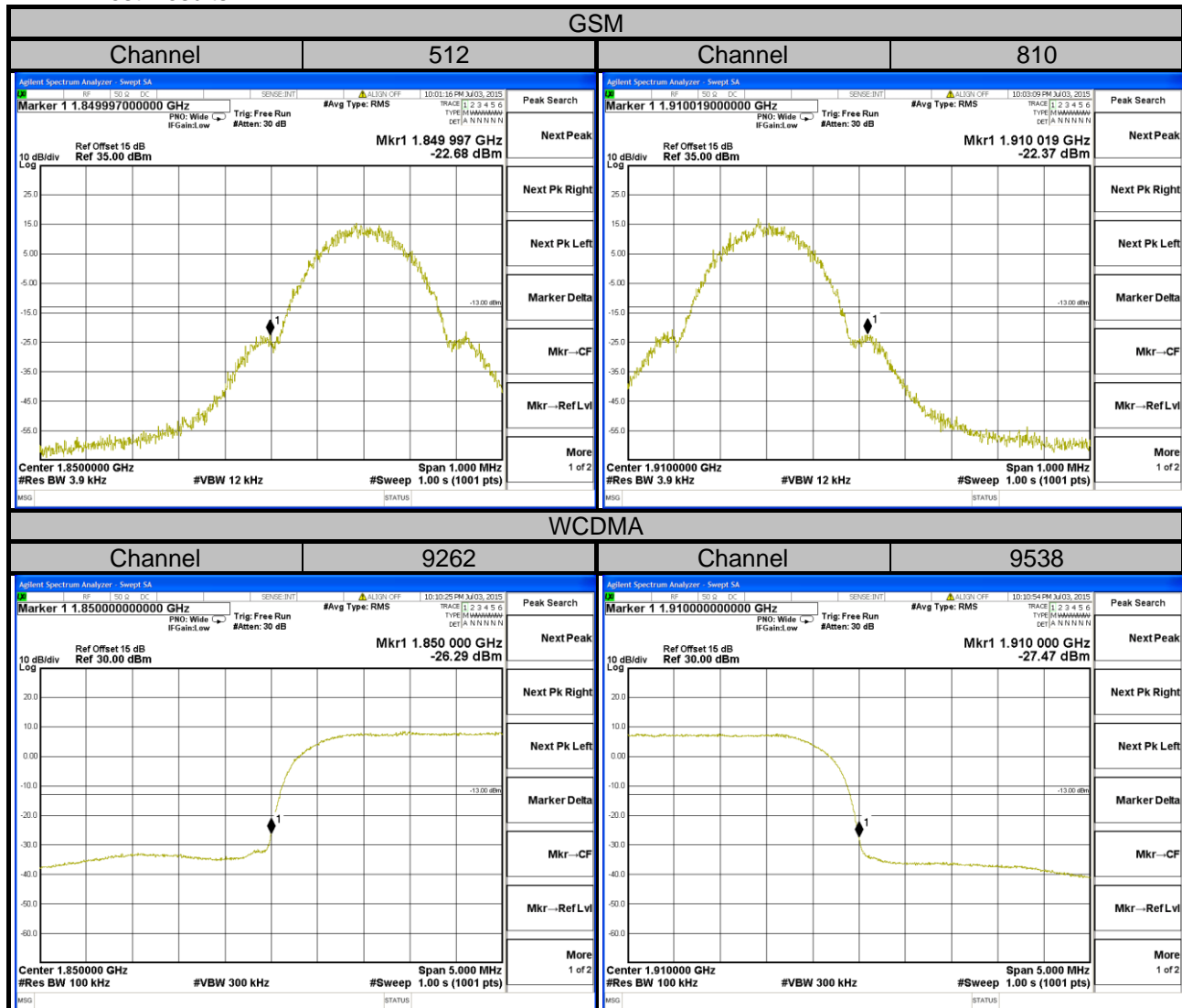
4.4.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3.9kHz and VB of the spectrum is 12kHz (GSM/GPRS/EDGE).
- The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- Record the max trace plot into the test report.



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4.4.4 Test Results

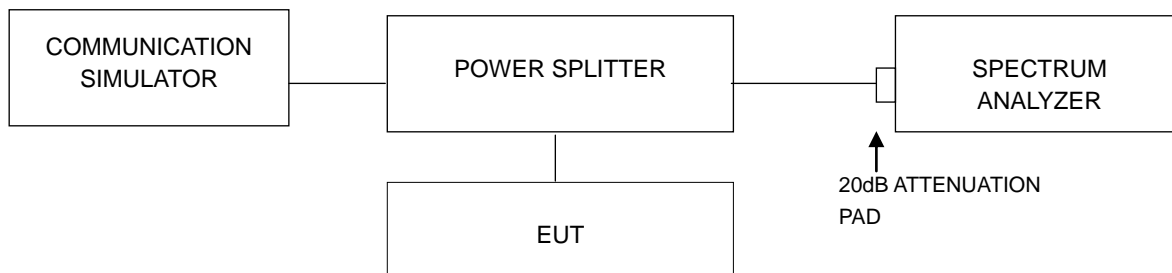


4.5 Peak To Average Ratio

4.5.1 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

4.5.2 Test Setup

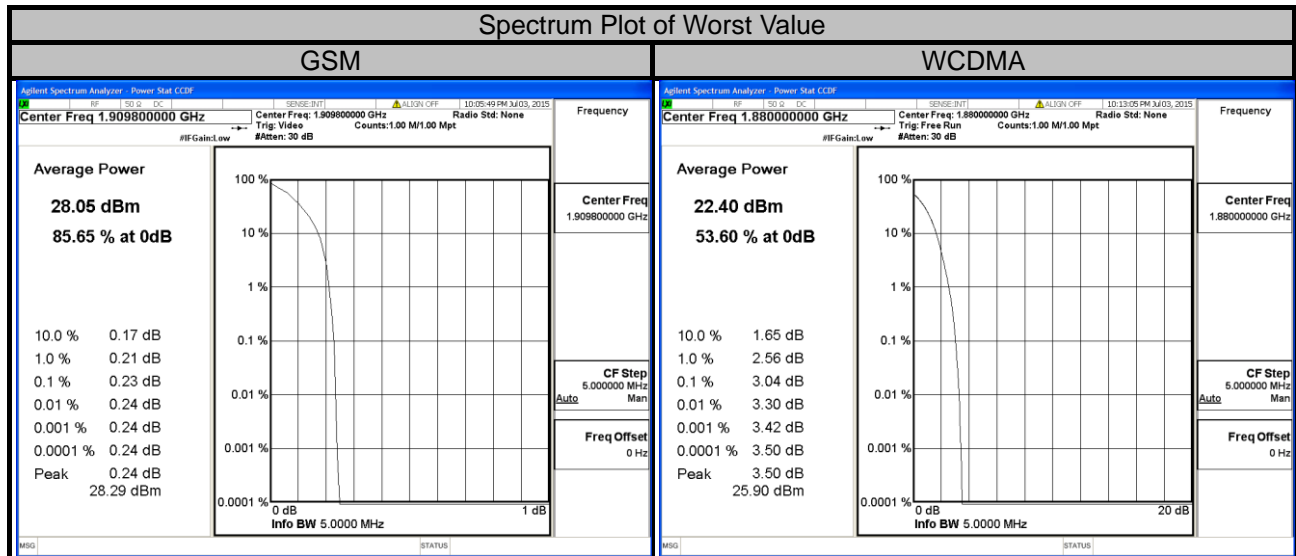


4.5.3 Test Procedures

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%.

4.5.4 Test Results

Channel	Frequency (MHz)	Peak to Average Ratio (dB)	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		GSM			WCDMA
512	1850.2	0.21	9262	1852.4	2.97
661	1880.0	0.21	9400	1880.0	3.04
810	1909.8	0.23	9538	1907.6	2.95

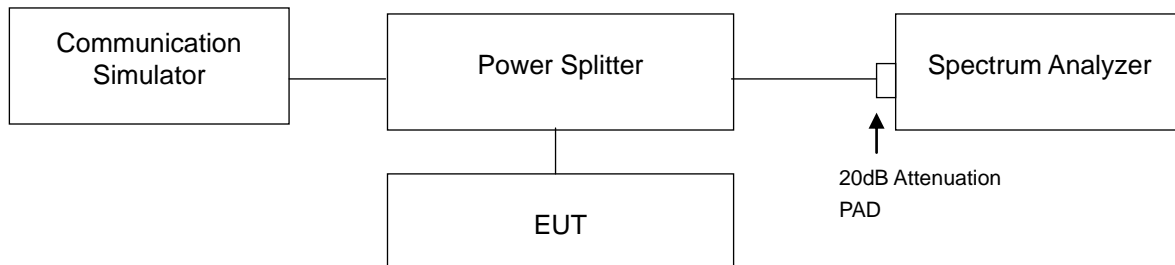


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

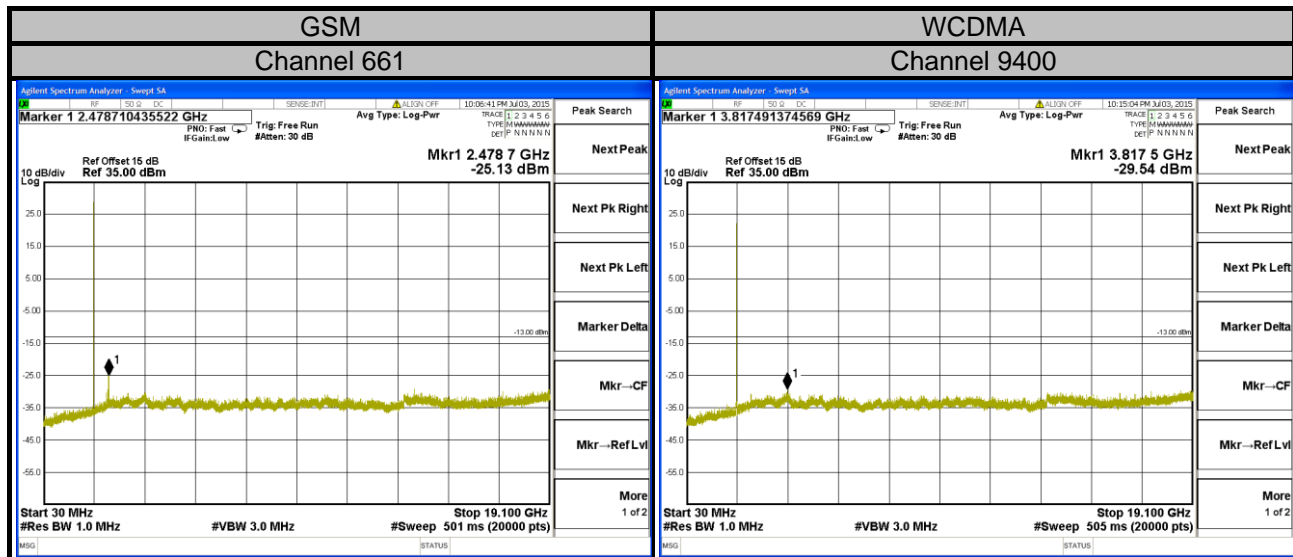
4.6.2 Test Setup



4.6.3 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 9 kHz to 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.6.4 Test Results



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.7.2 Test Procedure

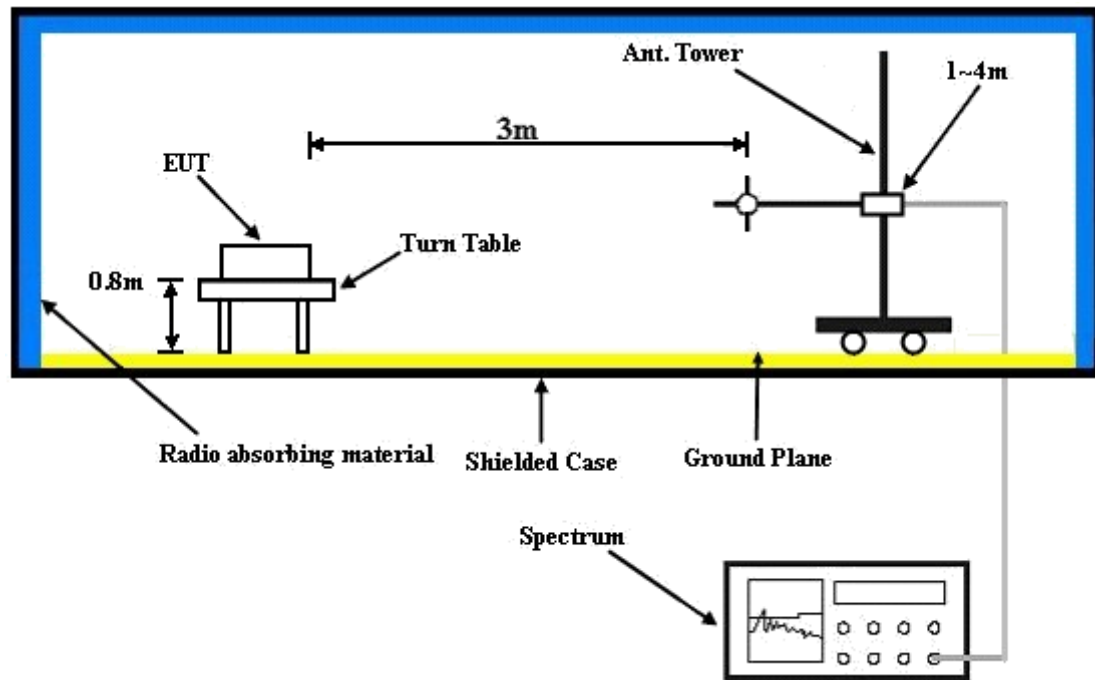
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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 and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

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

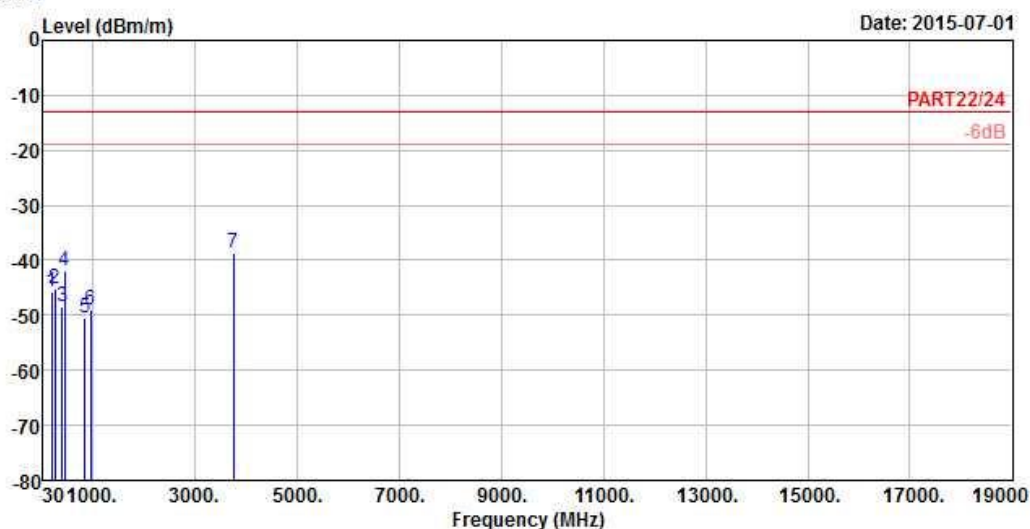
GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : GPRS 1900 Link
Tested by: Anson Lin
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	200.72	-45.69	-37.71	-13.00	-32.69	-7.98	Peak
2	250.19	-45.19	-39.20	-13.00	-32.19	-5.99	Peak
3	400.54	-48.40	-42.46	-13.00	-35.40	-5.94	Peak
4	450.01	-41.81	-36.26	-13.00	-28.81	-5.55	Peak
5	850.62	-50.59	-50.89	-13.00	-37.59	0.30	Peak
6	950.53	-49.08	-50.91	-13.00	-36.08	1.83	Peak
7 pp	3760.00	-38.67	-30.61	-13.00	-25.67	-8.06	Peak

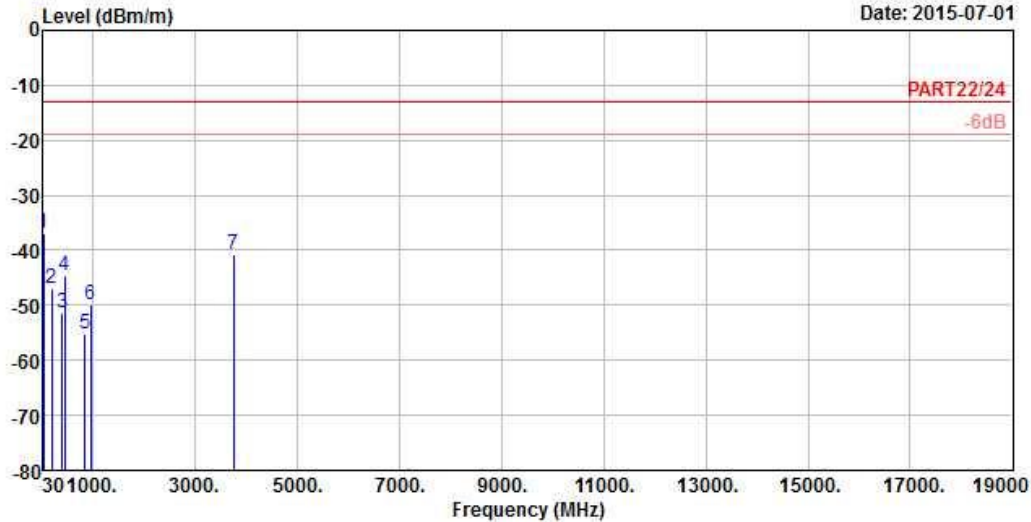


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 8

Date: 2015-07-01



Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : GPRS 1900 Link
Tested by: Anson Lin
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	40.67	-37.04	-37.16	-13.00	-24.04	0.12	Peak
2	190.05	-46.96	-39.87	-13.00	-33.96	-7.09	Peak
3	400.54	-51.26	-45.32	-13.00	-38.26	-5.94	Peak
4	450.01	-44.44	-38.89	-13.00	-31.44	-5.55	Peak
5	850.62	-55.07	-55.37	-13.00	-42.07	0.30	Peak
6	950.53	-49.91	-51.74	-13.00	-36.91	1.83	Peak
7	3760.00	-40.68	-32.62	-13.00	-27.68	-8.06	Peak

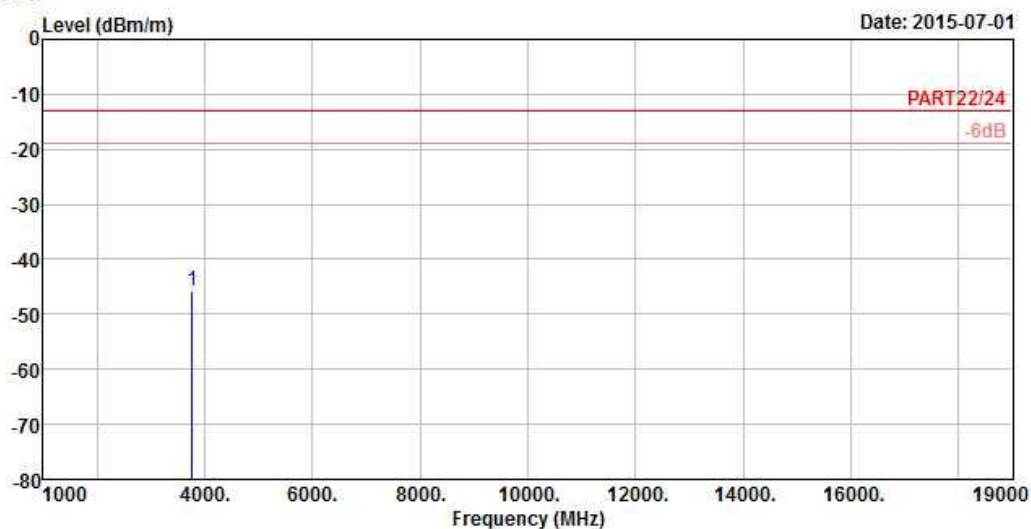
WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 5



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : WCDMA Band II Link
Tested by: Anson Lin
Plane : Z

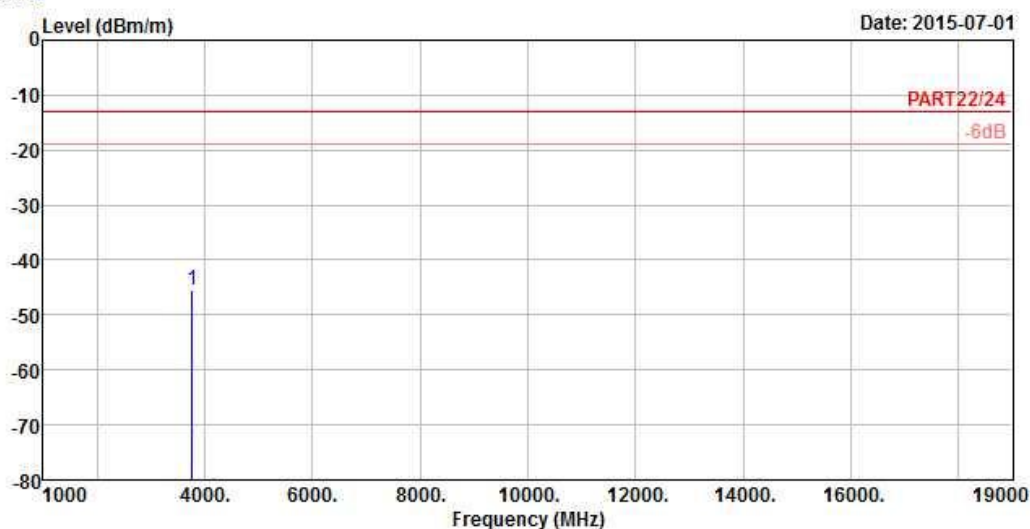
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-45.72	-37.66	-13.00	-32.72	-8.06	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 6



Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : WCDMA Band II Link
Tested by: Anson Lin
Plane : Z

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-45.46	-37.40	-13.00	-32.46	-8.06	Peak

5 Pictures of Test Arrangements

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

Appendix – 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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Web Site: www.bureauveritas-adt.com

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

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