

FCC TEST REPORT (PART 24)

REPORT NO.: RF120713C03-1

MODEL NO.: PM36100

FCC ID: NM8PM36100

RECEIVED: Jul. 13, 2012

TESTED: Jul. 25 ~ Jul. 30, 2012

ISSUED: Aug. 08, 2012

APPLICANT: HTC Corporation

ADDRESS: 23, Xinghua Rd., Taoyuan 330, Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services

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Report No.: RF120713C03-1 1 of 60 Report Format Version 5.0.0



TABLE OF CONTENTS

RELEAS	SE CONTROL RECORD	
1	CERTIFICATION	4
2	SUMMARY OF TEST RESULTS	5
2.1	MEASUREMENT UNCERTAINTY	
2.2	TEST SITE AND INSTRUMENTS	6
3	GENERAL INFORMATION	
3.1	GENERAL DESCRIPTION OF EUT	7
3.2	CONFIGURATION OF SYSTEM UNDER TEST	,
3.3	DESCRIPTION OF SUPPORT UNITS	o
3.4	TEST ITEM AND TEST CONFIGURATION	
3.5	EUT OPERATING CONDITIONS	
3.6	GENERAL DESCRIPTION OF APPLIED STANDARDS	11
3.0 4	TEST TYPES AND RESULTS	
	OUTPUT POWER MEASUREMENT	12
4.1	UUTPUT POWER MEASUREMENT	12
4.1.1	LIMITS OF OUTPUT POWER MEASUREMENT	
4.1.2	TEST PROCEDURES	
4.1.3	TEST SETUP	13
4.1.4	TEST RESULTS	
4.2	FREQUENCY STABILITY MEASUREMENT	
4.2.1	LIMITS OF FREQUENCY STABILITY MEASUREMENT	
4.2.2	TEST PROCEDURE	
4.2.3	TEST SETUP	
4.2.4	TEST RESULTS	
4.3	OCCUPIED BANDWIDTH MEASUREMENT	21
4.3.1	TEST PROCEDURES	21
4.3.2	TEST SETUP	
4.3.3	TEST RESULTS	
4.4	PEAK TO AVERAGE RATIO	24
4.4.1	LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	24
4.4.2	TEST SETUP	24
4.4.3	TEST PROCEDURES	24
4.4.4	TEST RESULTS	
4.5	BAND EDGE MEASUREMENT	
4.5.1	LIMITS OF BAND EDGE MEASUREMENT	
4.5.2	TEST SETUP	28
4.5.3	TEST PROCEDURES	20
4.5.4	TEST RESULTS	
4.5.4	CONDUCTED SPURIOUS EMISSIONS	23
4.6.1	LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	22
-		
4.6.2	TEST PROCEDURE	
4.6.3	TEST SETUP	
4.6.4	TEST RESULTS	33
4.7	RADIATED EMISSION MEASUREMENT	34
4.7.1	LIMITS OF RADIATED EMISSION MEASUREMENT	34
4.7.2	TEST PROCEDURES DEVIATION FROM TEST STANDARD	34
4.7.3		
4.7.4	TEST SETUP	
4.7.5	TEST RESULTS	36
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	
6	INFORMATION ON THE TESTING LABORATORIES	59
7	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES	S TC
	THE EUT BY THE LAB	60



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120713C03-1	Original release	Aug. 08, 2012

Report No.: RF120713C03-1 3 of 60 Report Format Version 5.0.0



CERTIFICATION

PRODUCT: Smart Phone

MODEL: PM36100

BRAND: HTC

APPLICANT: HTC Corporation

TESTED: Jul. 25 ~ Jul. 30, 2012

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: PM36100) 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.

Andrea Hsia / Specialist , DATE: Aug. 08, 2012

APPROVED BY



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2					
STANDARD SECTION	TEST TYPE TRES		REMARK		
2.1046 24.232	Equivalent isotropically radiated power	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.		
24.232(d)	Peak to average ratio	PASS	Meet the requirement of limit.		
2.1051 24.238	Conducted Spurious Emissions		Meet the requirement of limit.		
2.1053 24.238	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -26.38dB at 30.00MHz.		

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
	30MHz ~ 200MHz	2.93 dB
Padiated emissions	200MHz ~1000MHz	2.95 dB
Radiated emissions	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 Agilent	N9038A	MY51210203	Dec. 22, 2011	Dec. 21, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2011	Dec. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 20, 2011	Dec. 19, 2012
Preamplifier EMCI	EMC 012645	980115	Dec. 30, 2011	Dec. 29, 2012
Preamplifier EMCI	EMC 330H	980112	Dec. 30, 2011	Dec. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 21, 2011	Oct. 20, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Jan. 02, 2012	Jan. 01, 2013
RF signal cable Worken	RG-213	NA	Jan. 02, 2012	Jan. 01, 2013
Software	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	Mar. 23, 2012	Mar. 22, 2013
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY50266653	Sep. 28, 2011	Sep. 27, 2012
Radio Communication Analyzer	MT8820C	6201010284	Aug. 01, 2011	Jul. 31, 2012

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 9.
- 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 460141.
- 5. The IC Site Registration No. is IC 7450F-4.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Smart Phone				
MODEL NO.	PM36100				
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)				
	GSM/GPRS	GMSK			
MODULATION TYPE	EDGE	8PSK			
MODULATION TIPE	WCDMA	BPSK			
	LTE	QPSK, 16QAM			
	GSM/GPRS/EDGE	1850.2MHz ~ 1909.8MHz			
	WCDMA	1852.4MHz ~ 1907.6MHz			
FREQUENCY RANGE	LTE (Channel Bandwidth: 5MHz)	1852.5MHz ~ 1907.5MHz			
	LTE (Channel Bandwidth: 10MHz)	1855MHz ~ 1905MHz			
	GSM	659.17mW			
	EDGE	234.42mW			
	WCDMA	123.88mW			
MAX. EIRP POWER	LTE (Channel Bandwidth: 5MHz)	125.31mW			
	LTE (Channel Bandwidth: 10MHz)	131.52mW			
	GSM	247KGXW			
	EDGE	246KG7W			
 EMISSION	WCDMA	4M19F9W			
DESIGNATOR	LTE (Channel Bandwidth: 5MHz)	4M50G7D			
	LTE (Channel Bandwidth: 10MHz)	8M93W7D			
MULTI-SLOTS CLASS	10				
WCDMA RELEASE VERSION	6				
	GSM				
ANTENNA TYPE	EDGE	Fixed Internal antenna with -3.15dBi			
ANTENNA LIPE	WCDMA	gain			
	LTE				
I/O PORTS	Refer to users' manual				
DATA CABLE	Refer to NOTE as below				
ACCESSORY DEVICES	Refer to NOTE as below				

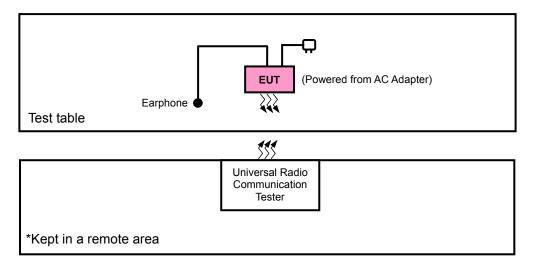


NOTE:

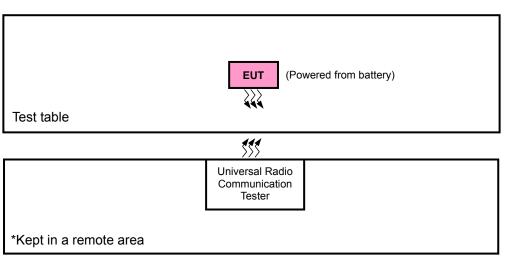
- 1. The EUT's accessories list refers to Ext Pho.pdf.
- 2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

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	Merry	HS S250	NA	NA

NO	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.1m non-shielded cable

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

3.4 TEST ITEM AND TEST CONFIGURATION

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 on X-plane for EIRP and Z-axis for GSM/EDGE/WCDMA and Y-axis for LTE for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

GSM MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
EIRP	512 to 810	512, 661, 810	GSM, EDGE
FREQUENCY STABILITY	512 to 810	661	GSM, EDGE
OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GSM, EDGE
BAND EDGE	512 to 810	512, 810	GSM, EDGE
CONDCUDETED EMISSION	512 to 810	661	GSM
RADIATED EMISSION	512 to 810	661	GSM, EDGE

WCDMA 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
CONDCUDETED EMISSION	9262 to 9538	9400	WCDMA
RADIATED EMISSION	9262 to 9538	9400	WCDMA

Report No.: RF120713C03-1 9 of 60 Report Format Version 5.0.0



LTE BAND 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB / 24 RB Offset
EIRF	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB / 49 RB Offset
FREQUENCY STABILITY	18625 to 19175	18900	5MHz	QPSK	1 RB / 24 RB Offset
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	1 RB / 49 RB Offset
OCCUPIED BANDWIDTH	18625 to 19175	18900	5MHz	QPSK	25 RB / 0 RB Offset
OCCOPIED BANDWIDTH	18650 to 19150	18900	10MHz	QPSK	50 RB / 0 RB Offset
DEAK TO AVEDAGE DATIO	19975 to 20375	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset
PEAK TO AVERAGE RATIO	20000 to 20350	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB, / 24 RB Offset
BAND EDGE	10025 (0 19175	18025, 19175	SIVIFIZ		25 RB, / 0 RB Offset
BAND EDGE	19650 to 10150	18650, 19150	10MHz	QPSK	1 RB / 49 RB Offset
	18650 to 19150	16050, 19150	TOWNIZ	QF3K	50 RB / 0 RB Offset
CONDCUDETED EMISSION	18625 to 19175	18900	5MHz	QPSK	1 RB / 24 RB Offset
CONDCODE LED EMISSION	18650 to 19150	18900	10MHz	QPSK	1 RB / 49 RB Offset
			5MHz	QPSK	1 RB / 24 RB Offset
	18625 to 19175	4000		QPSK	25 RB / 0 RB Offset
	10025 (0 19175	18900	SIVII IZ	400 414	1 RB / 24 RB Offset
RADIATED EMISSION				16QAM	25 RB / 0 RB Offset
NADIATED EIVIIOOIUN	,			OBSK	1 RB / 49 RB Offset
	18650 to 19150	18900	10№-	QPSK	50 RB / 0 RB Offset
		10900	10MHz		1 RB / 49 RB Offset
				16QAM	50 RB / 0 RB Offset

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	26deg. C, 58%RH	3.8Vdc	Phoenix Chen
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Phoenix Chen
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Phoenix Chen
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Phoenix Chen
CONDCUDETED EMISSION	26deg. C, 58%RH	3.8Vdc	Phoenix Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu



3.5 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

3.6 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 and portable stations are limited to 2 watts 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 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA, 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 = Output power level of S.G TX cable loss + Antenna gain of substitution horn.

CONDUCTED POWER MEASUREMENT:

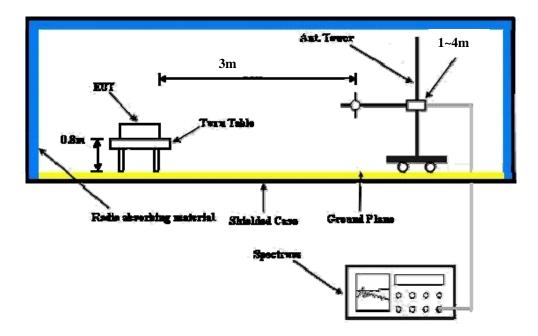
The EUT was set up for the maximum power with GSM, GPRS, EDGE & WCDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Report No.: RF120713C03-1 12 of 60 Report Format Version 5.0.0



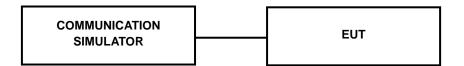
4.1.3 TEST SETUP

EIRP MEASUREMENT:



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

CONDUCTED POWER MEASUREMENT:



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



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band		GSM1900	
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GSM (1 Uplink)	30.81	31.36	30.94
GPRS 8 (1 Uplink)	30.93	31.34	31.04
GPRS 10 (2 Uplink)	29.41	29.65	29.62
EDGE 8 (1 Uplink)	30.85	31.26	30.95
EDGE 10 (2 Uplink)	29.35	29.49	29.55
EDGE 8 (8PSK, 1 slot)	26.87	26.94	26.86
EDGE 10 (8PSK, 2 slot)	26.56	26.62	26.53

Band		WCDMA II	
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	24.03	24.16	23.82
HSDPA Subtest-1	23.18	23.09	22.96
HSDPA Subtest-2	23.19	23.30	22.95
HSDPA Subtest-3	22.58	22.74	22.55
HSDPA Subtest-4	22.66	22.74	22.48
HSUPA Subtest-1	23.04	22.56	22.63
HSUPA Subtest-2	20.97	21.28	21.03
HSUPA Subtest-3	21.91	21.93	21.91
HSUPA Subtest-4	22.12	22.13	21.88
HSUPA Subtest-5	23.20	23.23	22.94



				LTE Band	1 2			
BW	Modulation	СН	Frequency (MHz)	RB	RB Offset	MPR	Target Power	Measured Power
		18625	1852.5	1	0	0	24.5	24.27
		18900	1880	1	0	0	24.5	24.37
		19175	1907.5	1	0	0	24.5	24.23
		18625	1852.5	1	24	0	24.5	24.43
		18900	1880	1	24	0	24.5	24.23
		19175	1907.5	1	24	0	24.5	23.76
	QPSK	18625	1852.5	12	6	1	24.5	23.42
		18900	1880	12	6	1	24.5	23.34
		19175	1907.5	12	6	1	24.5	23.18
		18625	1852.5	25	0	1	24.5	23.27
		18900	1880	25	0	1	24.5	23.24
		19175	1907.5	25	0	1	24.5	23.14
5 MHz		18625	1852.5	1	0	1	24.5	23.08
		18900	1880	1	0	1	24.5	23.47
		19175	1907.5	1	0	1	24.5	23.13
		18625	1852.5	1	24	1	24.5	23.51
		18900	1880	1	24	1	24.5	23.48
		19175	1907.5	1	24	1	24.5	22.83
	16QAM	18625	1852.5	12	6	2	24.5	22.37
		18900	1880	12	6	2	24.5	22.25
		19175	1907.5	12	6	2	24.5	22.17
		18625	1852.5	25	0	2	24.5	22.34
		18900	1880	25	0	2	24.5	22.17
		19175	1907.5	25	0	2	24.5	22.05



				LTE Band	1 2			
BW	Modulation	СН	Frequency (MHz)	RB	RB Offset	MPR	Target Power	Measured Power
		18650	1855	1	0	0	24.5	24.5
		18900	1880	1	0	0	24.5	24.2
		19150	1905	1	0	0	24.5	24.27
		18650	1855	1	49	0	24.5	24.44
		18900	1880	1	49	0	24.5	24.39
	o Dole	19150	1905	1	49	0	24.5	23.87
	QPSK	18650	1855	25	12	1	24.5	23.22
		18900	1880	25	12	1	24.5	23.1
		19150	1905	25	12	1	24.5	23.15
		18650	1855	50	0	1	24.5	23.18
		18900	1880	50	0	1	24.5	22.98
40000		19150	1905	50	0	1	24.5	23.06
10MHz		18650	1855	1	0	1	24.5	23.26
		18900	1880	1	0	1	24.5	23.12
		19150	1905	1	0	1	24.5	23.15
		18650	1855	1	49	1	24.5	23.33
		18900	1880	1	49	1	24.5	23.11
	400 444	19150	1905	1	49	1	24.5	22.84
	16QAM	18650	1855	25	12	2	24.5	22.2
		18900	1880	25	12	2	24.5	22.08
		19150	1905	25	12	2	24.5	22.13
		18650	1855	50	0	2	24.5	22.17
		18900	1880	50	0	2	24.5	22.38
		19150	1905	50	0	2	24.5	21.9



EIRP POWER (dBm)

GSM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
	512	1850.2	-10.23	38.19	27.96	625.17	Н
	661	1880.0	-11.16	38.70	27.54	567.54	Н
X	810	1909.8	-11.16	39.35	28.19	659.17	Н
^	512	1850.2	-14.13	38.48	24.35	272.27	V
	661	1880.0	-13.50	38.59	25.09	322.85	V
	810	1909.8	-13.40	38.87	25.47	352.37	V

EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)		EIRP(mW)	Polarization (H/V)
	512	1850.2	-15.06	38.19	23.13	205.59	Н
	661	1880.0	-15.00	38.70	23.70	234.42	Н
x	810	1909.8	-15.70	39.35	23.65	231.74	Н
^	512	1850.2	-18.85	38.48	19.63	91.83	V
	661	1880.0	-18.75	38.59	19.84	96.38	V
	810	1909.8	-18.63	38.87	20.24	105.68	V

WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
	9262	1852.4	-17.26	38.19	20.93	123.88	Н
	9400	1880.0	-17.90	38.70	20.80	120.23	Н
l _x	9538	1907.6	-18.74	39.35	20.61	115.08	Н
^	9262	1852.4	-22.20	38.48	16.28	42.46	V
	9400	1880.0	-21.00	38.59	17.59	57.41	V
	9538	1907.6	-21.64	38.87	17.23	52.84	V



LTE BAND 2

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
	18625	1852.5	-17.33	38.19	20.86	121.90	Н
	18900	1880.0	-17.72	38.70	20.98	125.31	Н
x	19175	1907.5	-18.95	39.35	20.40	109.65	Н
^	18625	1852.5	-18.89	38.48	19.59	90.99	V
	18900	1880.0	-18.87	38.59	19.72	93.76	V
	19175	1907.5	-19.52	38.87	19.35	86.10	V

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)		EIRP(mW)	Polarization (H/V)
	18625	1855.0	-17.40	38.19	20.79	119.95	Н
	18900	1880.0	-17.51	38.70	21.19	131.52	Н
X	19175	1905.0	-18.32	39.35	21.03	126.77	Н
^	18625	1855.0	-19.42	38.48	19.06	80.54	V
	18900	1880.0	-19.22	38.59	19.37	86.50	V
	19175	1905.0	-19.02	38.87	19.85	96.61	V

Report No.: RF120713C03-1 18 of 60 Report Format Version 5.0.0



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

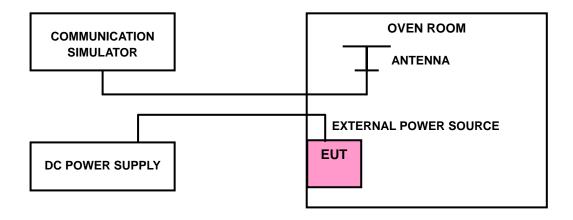
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}$ 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



Report No.: RF120713C03-1 19 of 60 Report Format Version 5.0.0



4.2.4 TEST RESULTS

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	GPRS	EDGE	WCDMA	LTE B	and 5	LIMIT (ppm)
	GPKS	EDGE WCDMA		5MHz	10MHz	
3.8	-0.01	0.01	-0.02	-0.01	0.00	2.5
3.6	-0.01	0.01	-0.02	-0.01	0.00	2.5
4.2	0.01	0.01	-0.02	-0.01	0.00	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.2Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

		FREQUE	NCY ERROF	R (ppm)		
TEMP. (°C)	GPRS	EDGE	WCDMA	LTE B	and 5	LIMIT (ppm)
	GPKS	LDGL	WODINA	5MHz	10MHz	
-10	0.01	0.01	0.02	0.00	-0.01	2.5
0	0.01	0.01	0.02	0.00	-0.01	2.5
10	-0.01	0.01	0.03	0.00	-0.01	2.5
20	-0.01	0.01	-0.03	0.00	0.00	2.5
30	-0.01	0.01	-0.03	0.00	0.00	2.5
40	-0.01	0.01	-0.03	0.00	0.00	2.5
50	-0.01	0.01	-0.03	0.00	0.00	2.5
55	-0.01	0.01	-0.03	0.00	0.00	2.5

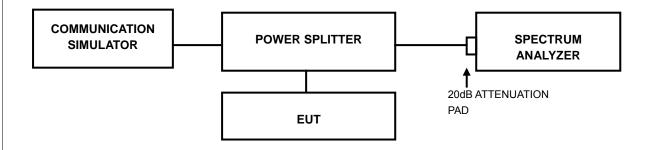


4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

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.

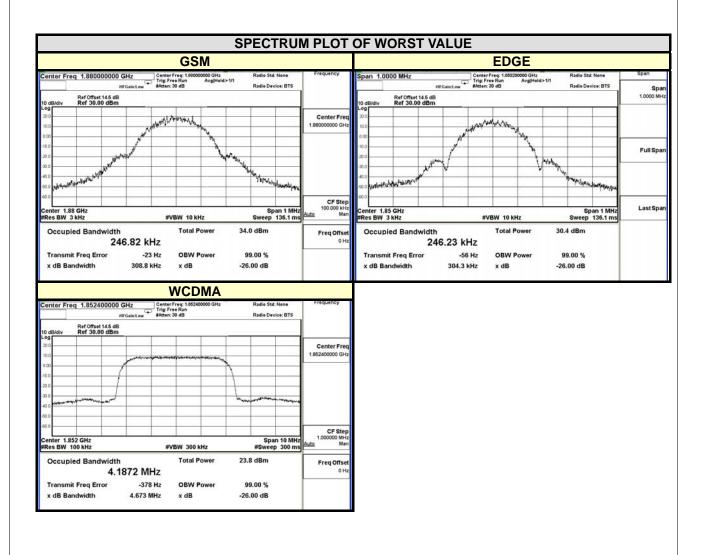
4.3.2 TEST SETUP





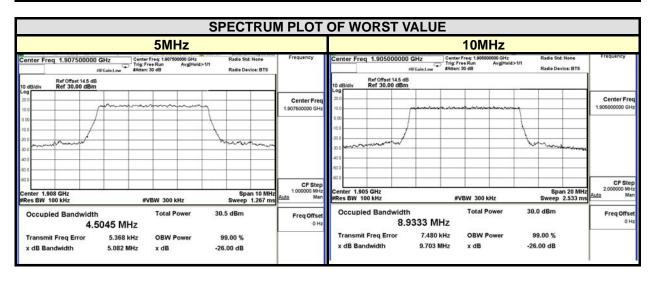
4.3.3 TEST RESULTS

CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL		99% OCCUPIED BANDWIDTH (MHz)
	(MHz) GSM EDGE		(MHz)	WCDMA		
512	1850.2	246.73	246.23	9262	1852.4	4.1872
661	1880.0	246.82	242.32	9400	1880.0	4.1695
810	1909.8	245.92	242.27	9538	1907.6	4.1740





LTE BAND 2						
CHANNEL BANDWIDTH: 5MHz			CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	I CHANNEL I		99% OCCUPIED BANDWIDTH (MHz)	
18625	1852.5	4.5029	18650	1855	8.9232	
18900	1880	4.4994	18900	1880	8.9289	
19175	1907.5	4.5045	19150	1905	8.9333	



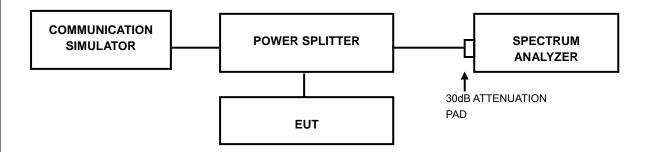


4.4 PEAK TO AVERAGE RATIO

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



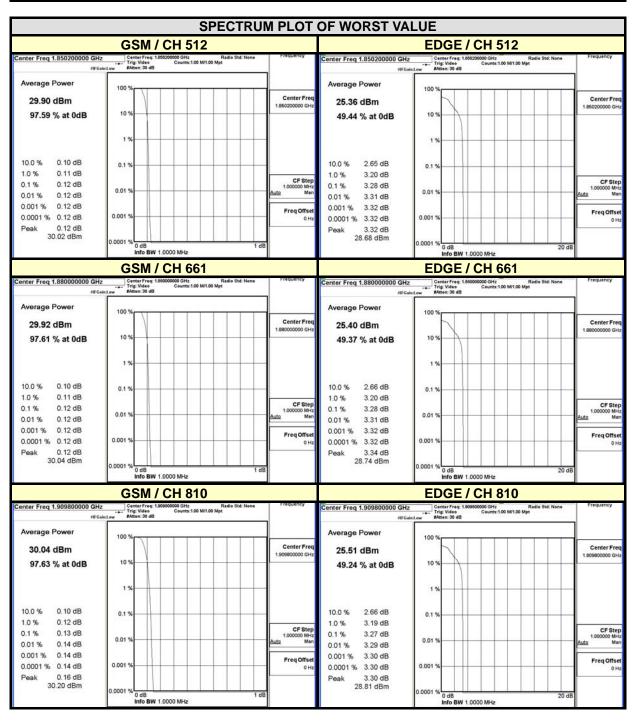
4.4.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ 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%.



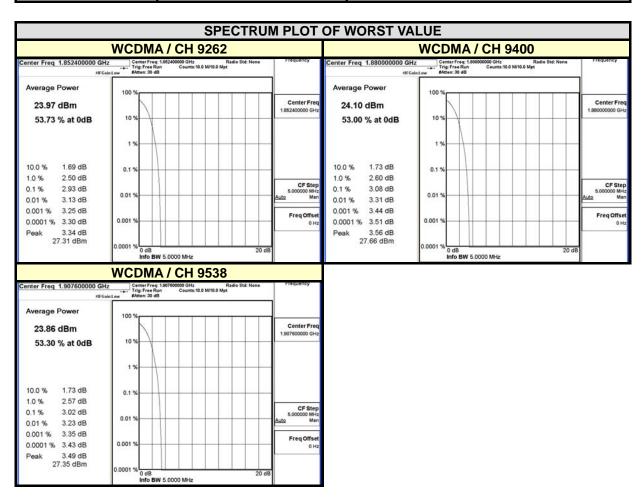
4.4.4 TEST RESULTS

OHANNEL	EDEOLIENOV (MIL-)	PEAK TO AVERAGE RATIO (dB)		
CHANNEL	FREQUENCY (MHz)	GSM	EDGE	
512	1850.2	0.12	3.28	
661	1880.0	0.12	3.28	
810	1909.8	0.13	3.27	



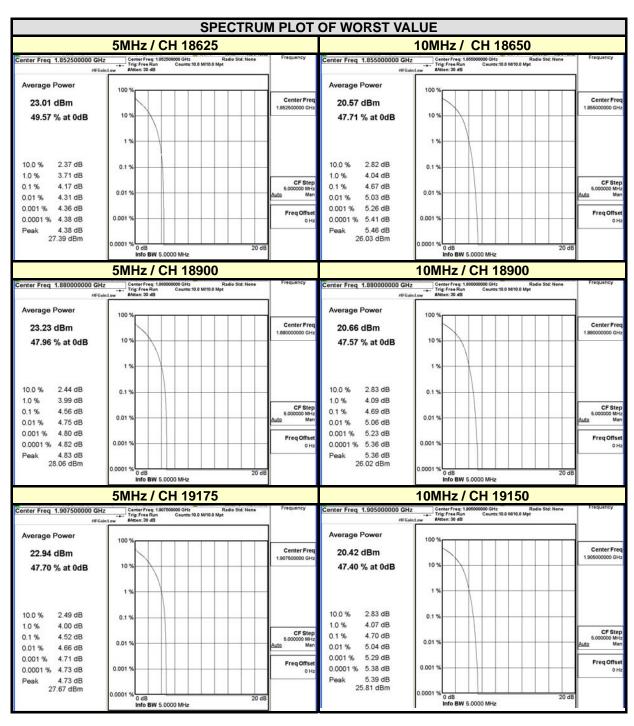


CHANNEL	EDECLIENCY (MIL-)	PEAK TO AVERAGE RATIO (dB)		
CHANNEL	FREQUENCY (MHz)	WCDMA		
9262	1852.4	2.93		
9400	1880.0	3.08		
9538	1907.6	3.02		





LTE BAND 2						
CHANNEL BANDWIDTH: 5MHz			CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	CHANNEL	HANNEL FREQUENCY PEAK TO A (MHz) RATIO		
18625	1852.5	4.17	18650	1855	4.67	
18900	1880	4.56	18900	1880	4.69	
19175	1907.5	4.52	19150	1905	4.70	



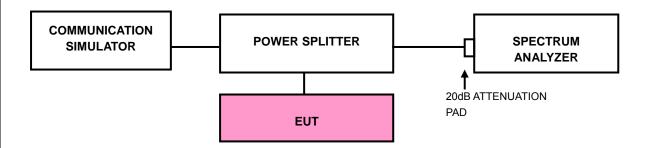


4.5 BAND EDGE MEASUREMENT

4.5.1 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.

4.5.2 TEST SETUP

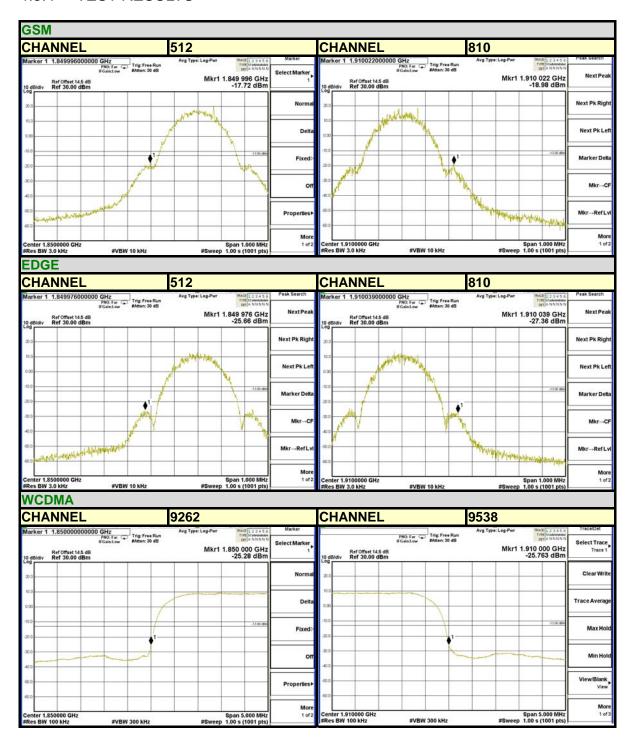


4.5.3 TEST PROCEDURES

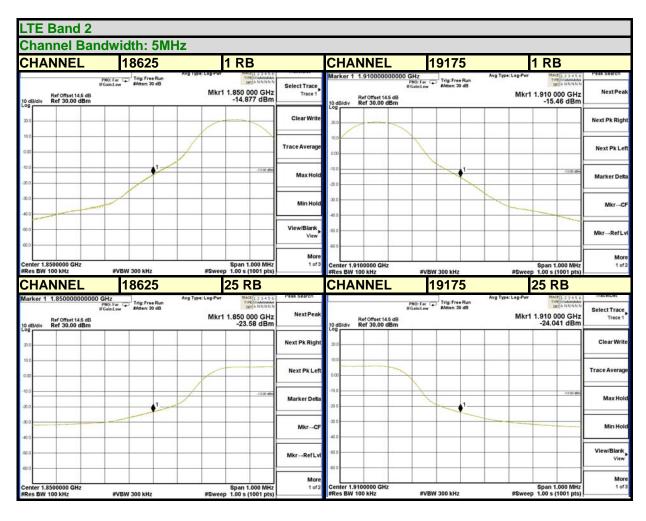
- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5 MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/ EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA/LTE).
- d. Record the max trace plot into the test report.



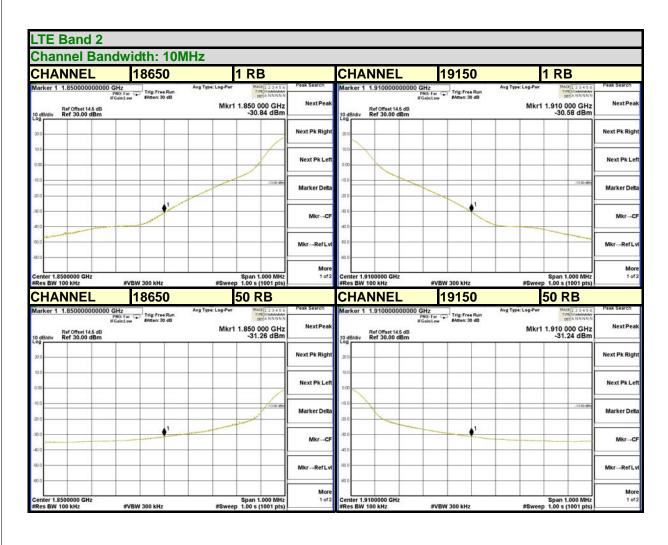
4.5.4 TEST RESULTS













4.6 CONDUCTED SPURIOUS EMISSIONS

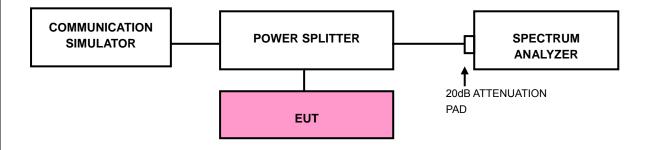
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside 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 PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

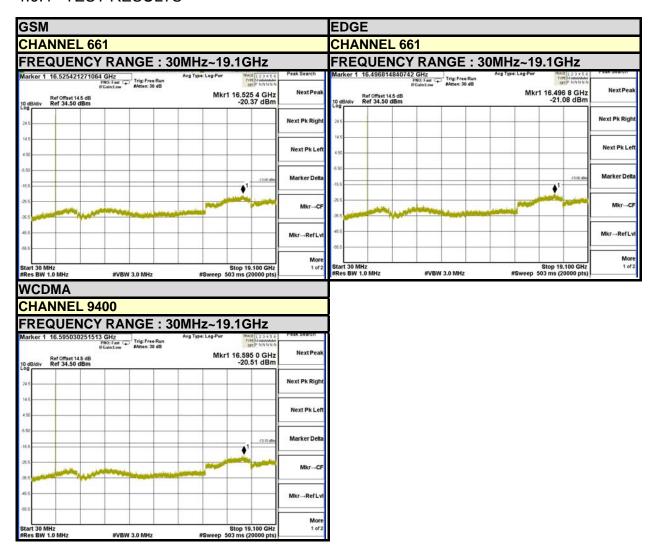
4.6.3 TEST SETUP

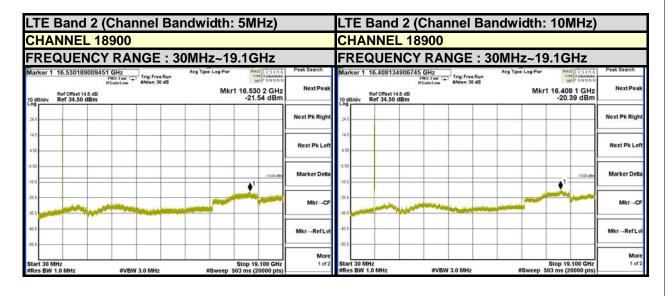


Report No.: RF120713C03-1 32 of 60 Report Format Version 5.0.0



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 PROCEDURES

- a. 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.
- b. 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
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15dBi.

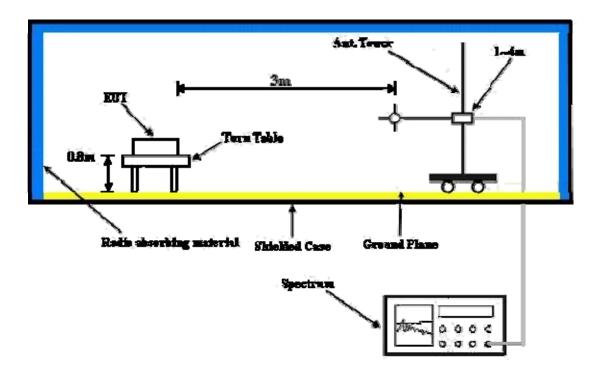
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

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).

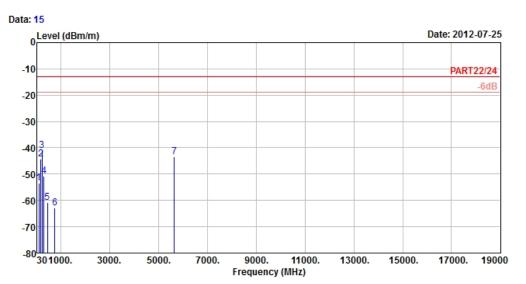


4.7.5 TEST RESULTS

GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

Remark : PCS1900 Link

Tested by : Kay Wu

Temprature : 25°C

Humidity : 65%

Humidity : 65%

Plane : Z

Read Limit Over

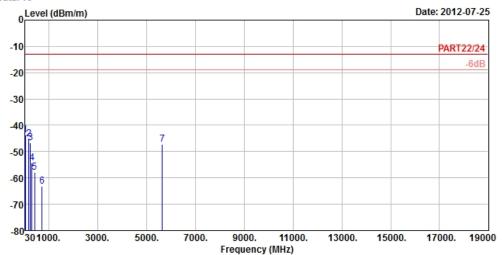
Freq Level Level Line Limit Factor Remark

	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	100.74	-53.46	-43.04	-13.00	-40.46	-10.42	Peak
2	177.42	-44.25	-38.02	-13.00	-31.25	-6.23	Peak
3 рр	225.21	-41.11	-34.30	-13.00	-28.11	-6.81	Peak
4	307.00	-50.85	-44.53	-13.00	-37.85	-6.32	Peak
5	453.30	-60.74	-56.45	-13.00	-47.74	-4.29	Peak
6	742.40	-62.78	-64.51	-13.00	-49.78	1.73	Peak
7	5640.00	-43.52	-43.73	-13.00	-30.52	0.21	Peak









Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100 Remark : PCS1900 Link

Tested by : Kay Wu Temprature : 25° C Humidity : 65% Plane : Z

Read Limit Over

Freq Level Level Line Limit Factor Remark

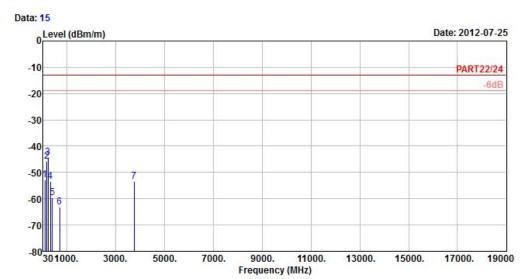
MHz dBm/m dBm dBm/m dB dB/m



EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

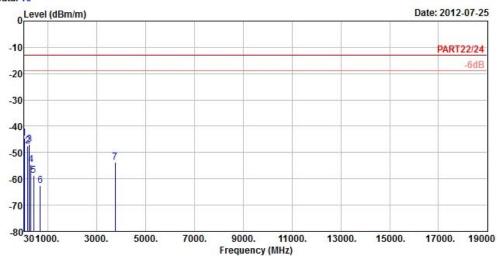
Brand/Model: PM36100
Remark : EDGE Link
Tested by : Kay Wu
Temprature : 25°C
Humidity : 65%
Plane : Z

	Freq	Level		Limit Line		Factor	Remark	
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	98.85	-52.83	-42.41	-13.00	-39.83	-10.42	Peak	
2	177.69	-45.88	-39.65	-13.00	-32.88	-6.23	Peak	
3 pp	225.21	-44.33	-37.52	-13.00	-31.33	-6.81	Peak	
4	313.30	-53.57	-47.29	-13.00	-40.57	-6.28	Peak	
5	399.40	-59.71	-54.07	-13.00	-46.71	-5.64	Peak	
6	702.50	-63.29	-64.75	-13.00	-50.29	1.46	Peak	
7	3760.00	-53.55	-46.82	-13.00	-40.55	-6.73	Peak	









Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100
Remark : EDGE Link
Tested by : Kay Wu
Temprature : 25°C
Humidity : 65%
Plane : Z

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

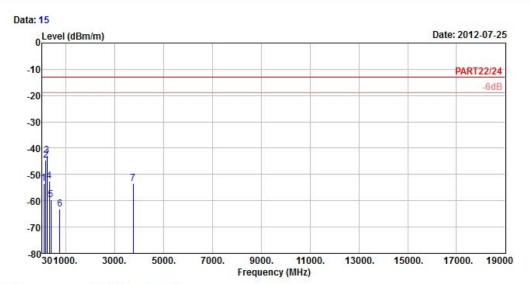
1 pp 42.42 -44.64 -43.31 -13.00 -31.64 -1.33 Peak 2 177.42 -47.50 -41.27 -13.00 -34.50 -6.23 Peak 3 238.44 -46.95 -40.75 -13.00 -33.95 -6.20 Peak 4 300.00 -54.70 -48.32 -13.00 -41.70 -6.38 Peak 5 408.50 -58.84 -53.42 -13.00 -45.84 -5.42 Peak 6 683.60 -62.68 -63.83 -13.00 -49.68 1.15 Peak 7 3760.00 -53.63 -46.90 -13.00 -40.63 -6.73 Peak



WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100 Remark : BAnd II Link Tested by : Kay Wu

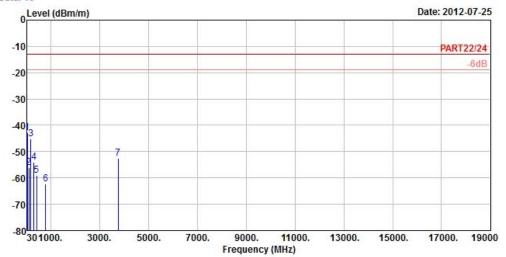
Temprature : 25℃ Humidity : 65% Plane : Z

	Freq	Level		Limit Line		Factor	Remark
% <u>-</u>	MHz	dBm/m	dBm	dBm/m	dB	dB/m	<u>19</u>
1	101.82	-53.46	-43.02	-13.00	-40.46	-10.44	Peak
2	177.42	-44.47	-38.24	-13.00	-31.47	-6.23	Peak
3 pp	224.67	-42.76	-35.95	-13.00	-29.76	-6.81	Peak
4	319.60	-52.45	-46.22	-13.00	-39.45	-6.23	Peak
5	392.40	-59.54	-53.85	-13.00	-46.54	-5.69	Peak
6	745.20	-63.05	-64.80	-13.00	-50.05	1.75	Peak
7	3760.00	-53.36	-46.63	-13.00	-40.36	-6.73	Peak









Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100 Remark : BAnd II Link

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Z

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m



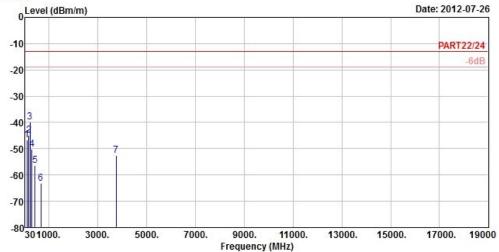
LTE BAND 2

CHANNEL BANDWIDTH: 5MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

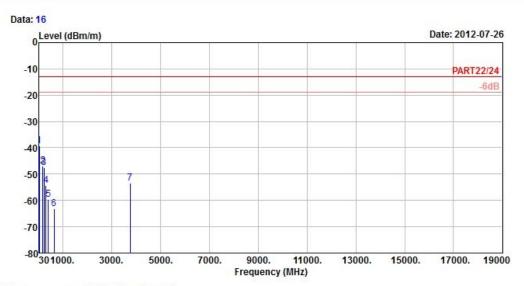
Remark : LTE Band 2_5M_(QPSK 25,0)

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Y

Freq	Level		Limit Line		Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
97.77	-46.51	-36.07	-13.00	-33.51	-10.44	Peak
171.48	-44.88	-38.15	-13.00	-31.88	-6.73	Peak
232.77	-39.90	-33.43	-13.00	-26.90	-6.47	Peak
300.00	-50.16	-43.78	-13.00	-37.16	-6.38	Peak
428.80	-56.52	-51.62	-13.00	-43.52	-4.90	Peak
669.60	-63.03	-63.92	-13.00	-50.03	0.89	Peak
3760.00	-52.60	-45.87	-13.00	-39.60	-6.73	Peak







: 966 Chamber 5 Site

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band 2_5M_(QPSK 25,0)
Tested by : Kay Wu

Temprature : 25℃ Humidity : 65% Plane : Y

2

3

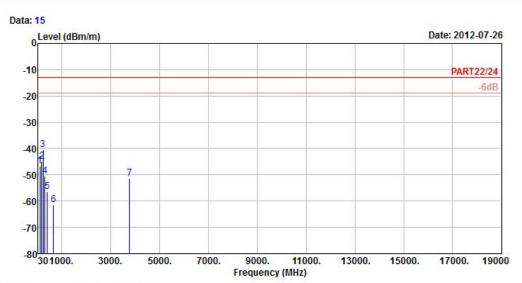
4 5

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m 30.00 -39.38 -40.45 -13.00 -26.38 1 pp 1.07 Peak 172.29 -47.05 -40.30 -13.00 -34.05 -6.75 Peak 231.96 -47.39 -40.88 -13.00 -34.39 -6.51 Peak 300.00 -54.43 -48.05 -13.00 -41.43 -6.38 Peak 407.10 -59.78 -54.34 -13.00 -46.78 -5.44 Peak 643.70 -63.09 -63.53 -13.00 -50.09 0.44 Peak

3760.00 -53.30 -46.57 -13.00 -40.30 -6.73 Peak







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

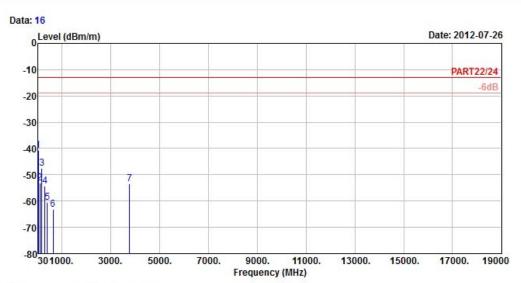
Remark : LTE Band 2_5M_(QPSK1,24)

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Y

Read Limit 0ver Limit Factor Remark Freq Level Level Line MHz dBm/m dBm dBm/m dB/m 98.04 -46.55 -36.11 -13.00 -33.55 -10.44 Peak 2 172.29 -44.91 -38.16 -13.00 -31.91 -6.75 Peak 230.34 -40.37 -33.82 -13.00 -27.37 -6.55 Peak 3 pp 312.60 -50.40 -44.11 -13.00 -37.40 -6.29 Peak 5 403.60 -56.26 -50.72 -13.00 -43.26 -5.54 Peak 6 659.80 -61.51 -62.23 -13.00 -48.51 0.72 Peak 3764.40 -51.47 -44.86 -13.00 -38.47 -6.61 Peak







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band 2_5M_(QPSK1,24)

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Y

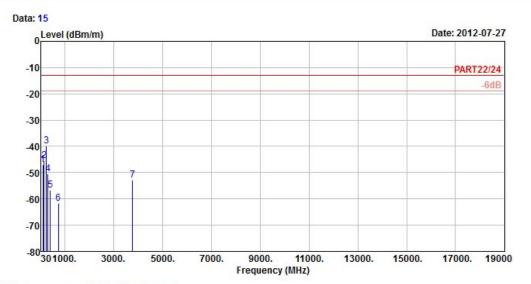
Read Limit Over Limit Factor Remark Freq Level Level Line MHz dBm/m dBm dBm/m dB/m dB 1 pp 42.15 -40.67 -39.34 -13.00 -27.67 -1.33 Peak 97.23 -53.25 -42.80 -13.00 -40.25 -10.45 Peak 2 172.02 -47.47 -40.74 -13.00 -34.47 -6.73 Peak 3 300.00 -54.45 -48.07 -13.00 -41.45 -6.38 Peak 5 395.20 -60.42 -54.74 -13.00 -47.42 -5.68 Peak 638.10 -63.29 -63.62 -13.00 -50.29 0.33 Peak 6 3764.40 -53.48 -46.87 -13.00 -40.48 -6.61 Peak



CHANNEL BANDWIDTH: 5MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

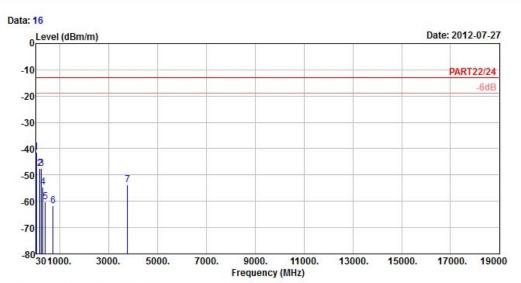
Remark : LTE Band 2_5M_(16QAM 1,24) Tested by : Kay Wu Temprature : 25℃

Humidity : 65% Plane : Y

	Freq	Level				Factor	Remark	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	<u> </u>	
	98.31	-46.88	-36.44	-13.00	-33.88	-10.44	Peak	
	145.29	-45.51	-39.46	-13.00	-32.51	-6.05	Peak	
p	237.90	-39.87	-33.62	-13.00	-26.87	-6.25	Peak	
	306.30	-50.41	-44.08	-13.00	-37.41	-6.33	Peak	
	404.30	-56.67	-51.15	-13.00	-43.67	-5.52	Peak	
	739.60	-61.80	-63.52	-13.00	-48.80	1.72	Peak	
	3764.40	-52.88	-46.27	-13.00	-39.88	-6.61	Peak	
		98.31 145.29 237.90 306.30 404.30 739.60	98.31 -46.88 145.29 -45.51 237.90 -39.87 306.30 -50.41 404.30 -56.67 739.60 -61.80	Preq Level Level MHz dBm/m dBm 98.31 -46.88 -36.44 145.29 -45.51 -39.46 237.90 -39.87 -33.62 306.30 -50.41 -44.08 404.30 -56.67 -51.15 739.60 -61.80 -63.52	Freq Level Level Line MHz dBm/m dBm dBm/m 98.31 -46.88 -36.44 -13.00 145.29 -45.51 -39.46 -13.00 237.90 -39.87 -33.62 -13.00 306.30 -50.41 -44.08 -13.00 404.30 -56.67 -51.15 -13.00 739.60 -61.80 -63.52 -13.00	MHz dBm/m dBm dBm/m dB 98.31 -46.88 -36.44 -13.00 -33.88 145.29 -45.51 -39.46 -13.00 -32.51 237.90 -39.87 -33.62 -13.00 -26.87 306.30 -50.41 -44.08 -13.00 -37.41 404.30 -56.67 -51.15 -13.00 -43.67 739.60 -61.80 -63.52 -13.00 -48.80	Freq Level Level Line Limit Factor MHz dBm/m dBm dBm/m dB dB/m 98.31 -46.88 -36.44 -13.00 -33.88 -10.44 145.29 -45.51 -39.46 -13.00 -32.51 -6.05 237.90 -39.87 -33.62 -13.00 -26.87 -6.25 306.30 -50.41 -44.08 -13.00 -37.41 -6.33 404.30 -56.67 -51.15 -13.00 -43.67 -5.52 739.60 -61.80 -63.52 -13.00 -48.80 1.72	Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m 98.31 -46.88 -36.44 -13.00 -33.88 -10.44 Peak 145.29 -45.51 -39.46 -13.00 -32.51 -6.05 Peak 237.90 -39.87 -33.62 -13.00 -26.87 -6.25 Peak 306.30 -50.41 -44.08 -13.00 -37.41 -6.33 Peak







Site : 966 Chamber 5 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band 2_5M_(16QAM 1,24)
Tested by : Kay Wu

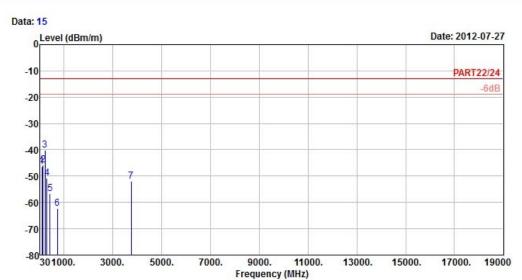
Temprature : 25℃ Humidity : 65% Plane : Y

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m

1	pp	42.42	-41.21	-39.88	-13.00	-28.21	-1.33 Peak
2		171.21	-47.58	-40.85	-13.00	-34.58	-6.73 Peak
3		238.71	-47.53	-41.33	-13.00	-34.53	-6.20 Peak
4		300.00	-54.75	-48.37	-13.00	-41.75	-6.38 Peak
5		399.40	-60.34	-54.70	-13.00	-47.34	-5.64 Peak
6		713.70	-61.84	-63.38	-13.00	-48.84	1.54 Peak
7		3764.40	-53.60	-46.99	-13.00	-40.60	-6.61 Peak







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

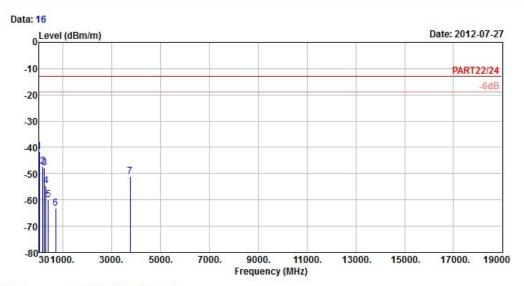
Remark : LTE Band 2_5M_(16QAM 25,0) Tested by : Kay Wu

Temprature : 25°C Humidity : 65% Plane : Y

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m 98.04 -46.39 -35.95 -13.00 -33.39 -10.44 Peak 1 2 145.29 -45.64 -39.59 -13.00 -32.64 -6.05 Peak 232.23 -40.17 -33.66 -13.00 -27.17 -6.51 Peak 3 рр 304.90 -50.91 -44.57 -13.00 -37.91 -6.34 Peak 5 426.00 -56.63 -51.65 -13.00 -43.63 -4.98 Peak 730.50 -62.26 -63.91 -13.00 -49.26 1.65 Peak 3760.00 -51.95 -45.22 -13.00 -38.95 -6.73 Peak







: 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

: LTE Band 2_5M_(16QAM 25,0) Remark

Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : Y

2

3

5

6

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm/m dB dBm dBm/m dB/m 1 pp 42.69 -41.68 -40.35 -13.00 -28.68 -1.33 Peak 172.02 -47.16 -40.43 -13.00 -34.16 -6.73 Peak 236.28 -47.75 -41.46 -13.00 -34.75 -6.29 Peak 300.00 -54.70 -48.32 -13.00 -41.70 -6.38 Peak 396.60 -60.04 -54.38 -13.00 -47.04 -5.66 Peak

699.70 -63.04 -64.47 -13.00 -50.04 1.43 Peak

3760.00 -51.02 -44.29 -13.00 -38.02 -6.73 Peak



CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



9000.

Frequency (MHz)

11000.

13000.

15000.

17000. 19000

Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

5000.

7000.

Brand/Model: PM36100

301000.

Remark : LTE Band 2_10M_(QPSK 1,0)

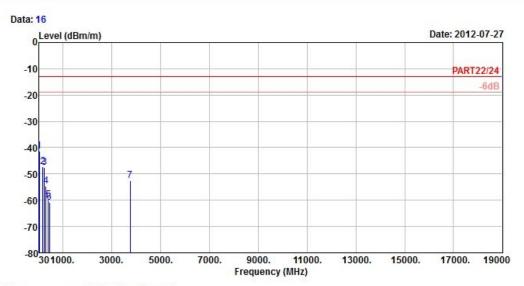
3000.

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Y

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m 98.58 -47.05 -36.63 -13.00 -34.05 -10.42 Peak 145.29 -45.81 -39.76 -13.00 -32.81 -6.05 Peak 3 pp 230.07 -40.45 -33.85 -13.00 -27.45 -6.60 Peak 4 312.60 -50.23 -43.94 -13.00 -37.23 -6.29 Peak 5 426.70 -57.00 -52.05 -13.00 -44.00 -4.95 Peak 666.10 -62.15 -62.99 -13.00 -49.15 0.84 Peak 6 3751.20 -52.00 -45.27 -13.00 -39.00 -6.73 Peak







Site : 966 Chamber 5 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band 2_10M_(QPSK 1,0)
Tested by : Kay Wu

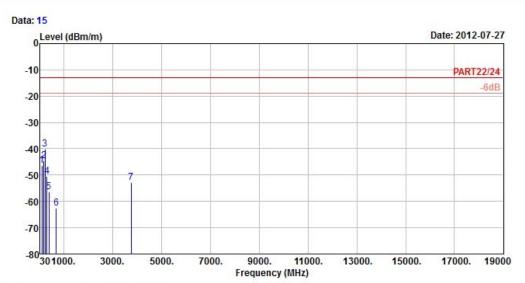
Temprature : 25℃ Humidity : 65% Plane : Y

Read Limit 0ver Line Limit Factor Remark Freq Level Level MHz dBm/m dBm dBm/m dB dB/m

1 pp	42.42	-41.28	-39.95	-13.00	-28.28	-1.33 Peak
2	172.02	-47.29	-40.56	-13.00	-34.29	-6.73 Peak
3	233.58	-47.41	-40.99	-13.00	-34.41	-6.42 Peak
4	302.10	-54.51	-48.15	-13.00	-41.51	-6.36 Peak
5	395.90	-59.82	-54.15	-13.00	-46.82	-5.67 Peak
6	454.00	-60.82	-56.55	-13.00	-47.82	-4.27 Peak
7	3751.20	-52.68	-45.95	-13.00	-39.68	-6.73 Peak







: 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

Remark : LTE Band 2_10M_(QPSK 50,0)
Tested by : Kay Wu

Temprature : 25℃ Humidity : 65% Plane : Y

1 2

5

6

Read Limit 0ver Freq Level Level Line Limit Factor Remark dBm dBm/m MHz dBm/m dB dB/m 97.77 -46.32 -35.88 -13.00 -33.32 -10.44 Peak 172.02 -44.60 -37.87 -13.00 -31.60 -6.73 Peak 225.75 -40.24 -33.47 -13.00 -27.24 -6.77 Peak 3 pp 312.60 -50.58 -44.29 -13.00 -37.58 -6.29 Peak

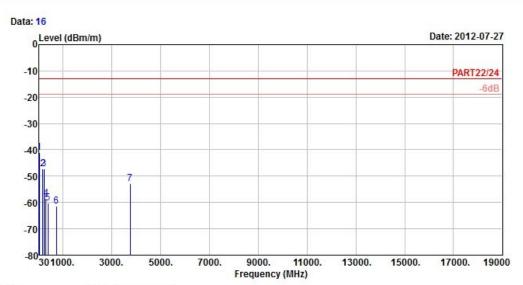
> 387.50 -56.50 -50.77 -13.00 -43.50 -5.73 Peak 680.80 -62.50 -63.60 -13.00 -49.50 1.10 Peak

3760.00 -52.74 -46.01 -13.00 -39.74 -6.73 Peak

52 of 60 Report No.: RF120713C03-1 Report Format Version 5.0.0







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band 2_10M_(QPSK 50,0)
Tested by : Kay Wu

Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : Y

6

Read Limit Over Freq Level Level Line Limit Factor Remark

15	MHz	dBm/m	dBm	dBm/m	dB	dB/m	Ti-
1 pp	30.54	-41.01	-41.35	-13.00	-28.01	0.34	Peak
2	172.29	-47.20	-40.45	-13.00	-34.20	-6.75	Peak
3	233.31	-47.18	-40.76	-13.00	-34.18	-6.42	Peak
4	300.70	-58.50	-52.13	-13.00	-45.50	-6.37	Peak
5	387.50	-60.36	-54.63	-13.00	-47.36	-5.73	Peak

737.50 -61.30 -63.00 -13.00 -48.30 1.70 Peak 3760.00 -52.97 -46.24 -13.00 -39.97 -6.73 Peak

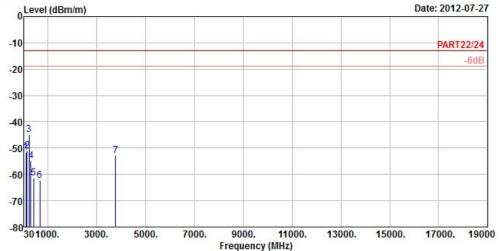


CHANNEL BANDWIDTH: 10MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

Remark : LTE Band 2_10M_(16QAM 1,49)

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Y

Read Limit Over

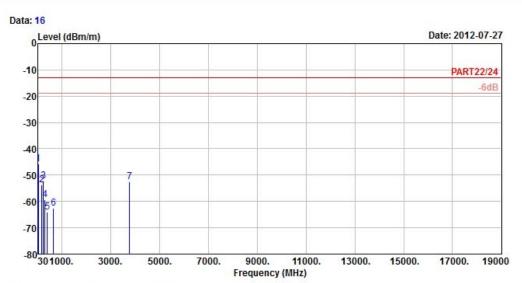
Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

1 98.58 -51.79 -41.37 -13.00 -38.79 -10.42 Peak
2 144.75 -50.99 -45.01 -13.00 -37.99 -5.98 Peak
3 pp 229.26 -44.91 -38.27 -13.00 -31.91 -6.64 Peak
4 300.00 -54.81 -48.43 -13.00 -41.81 -6.38 Peak
5 422.50 -61.30 -56.25 -13.00 -48.30 -5.05 Peak
6 668.90 -62.21 -63.10 -13.00 -49.21 0.89 Peak
7 3768.80 -52.83 -46.22 -13.00 -39.83 -6.61 Peak







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band $2_{10M}(16QAM 1,49)$ Tested by : Kay Wu

Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : Y

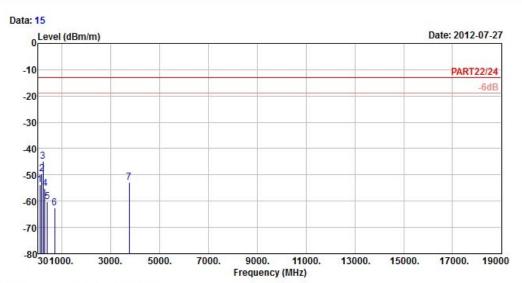
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

1 pp	30.27	-45.78	-46.85	-13.00	-32.78	1.07 Peak
2	172.02	-53.62	-46.89	-13.00	-40.62	-6.73 Peak
3	236.01	-52.20	-45.87	-13.00	-39.20	-6.33 Peak
4	300.00	-59.23	-52.85	-13.00	-46.23	-6.38 Peak
5	397.30	-64.14	-58.49	-13.00	-51.14	-5.65 Peak
6	659.10	-62.52	-63.24	-13.00	-49.52	0.72 Peak
7	3768.80	-52.62	-46.01	-13.00	-39.62	-6.61 Peak







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: PM36100

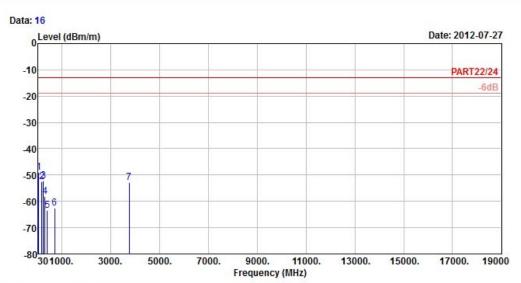
Remark : LTE Band 2_10M_(16QAM 50,0)

Tested by : Kay Wu Temprature : 25°C Humidity : 65% Plane : Y

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB/m dB 1 99.66 -53.63 -43.23 -13.00 -40.63 -10.40 Peak 171.21 -49.73 -43.00 -13.00 -36.73 -6.73 Peak 2 228.45 -44.90 -38.26 -13.00 -31.90 -6.64 Peak 3 pp 300.70 -55.19 -48.82 -13.00 -42.19 -6.37 Peak 5 407.80 -60.13 -54.69 -13.00 -47.13 -5.44 Peak 6 700.40 -62.67 -64.12 -13.00 -49.67 1.45 Peak 3760.00 -52.76 -46.03 -13.00 -39.76 -6.73 Peak







Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: PM36100

Remark : LTE Band 2_10M_(16QAM 50,0) Tested by : Kay Wu

Tested by : Kay Wi Temprature : 25°C Humidity : 65% Plane : Y

1 pp

2

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

42.96 -49.04 -47.71 -13.00 -36.04 -1.33 Peak
173.10 -52.50 -45.73 -13.00 -39.50 -6.77 Peak

3 233.58 -52.20 -45.78 -13.00 -39.20 -6.42 Peak 4 300.00 -58.13 -51.75 -13.00 -45.13 -6.38 Peak 5 393.80 -63.56 -57.88 -13.00 -50.56 -5.68 Peak 6 698.30 -62.71 -64.13 -13.00 -49.71 1.42 Peak 7 3760.00 -52.74 -46.01 -13.00 -39.74 -6.73 Peak



5 PHOTOGRAPHS OF THE TEST CONFIGURATION	
Please refer to the attached file (Test Setup Photo).	



6 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:

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 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.

Report No.: RF120713C03-1 59 of 60 Report Format Version 5.0.0



CHANGES TO THE EUT BY THE LAB
No any modifications were made to the EUT by the lab during the test.
END

Report No.: RF120713C03-1 60 of 60 Report Format Version 5.0.0