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FCC TEST REPORT (PART 22)

REPORT NO.: RF120713C03
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
(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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RELEASE CONTROL RECORD

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



1 CERTIFICATION

PRODUCT: Smart Phone
MODEL: PM36100
BRAND: HTC
APPLICANT: HTC Corporation
TESTED: Jul. 25 ~ Jul. 30, 2012
TEST SAMPLE: Production Unit
STANDARDS: FCC PART 22, Subpart H

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.

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

APPROVED BY : Gary Chang , DATE : Aug. 08, 2012
Gary Chang / Technical Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 22.913 (a)	Effective radiated power	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -25.12dB at 226.29MHz.

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 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
ORN 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

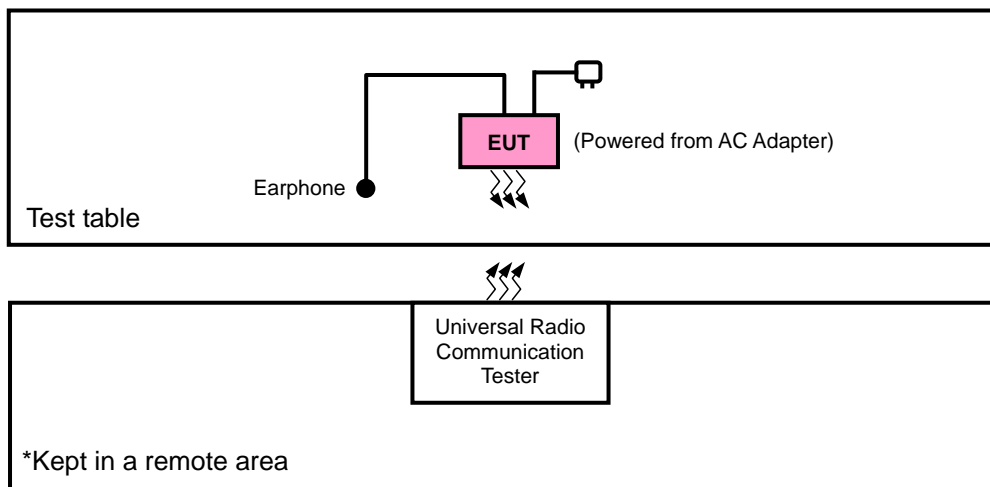
EUT	Smart Phone	
MODEL NO.	PM36100	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TYPE	GSM/GPRS	GMSK
	EDGE	8PSK
	WCDMA	BPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	GSM/GPRS/EDGE	824.2MHz ~ 848.8MHz
	WCDMA	826.4MHz ~ 846.6MHz
	LTE (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
MAX. ERP POWER	GSM	1083.93mW
	EDGE	239.88mW
	WCDMA	100.46mW
	LTE (Channel Bandwidth: 5MHz)	83.95mW
	LTE (Channel Bandwidth: 10MHz)	92.68mW
EMISSION DESIGNATOR	GSM	245KGXW
	EDGE	248KG7W
	WCDMA	4M19F9W
	LTE (Channel Bandwidth: 5MHz)	4M50G7D
	LTE (Channel Bandwidth: 10MHz)	8M93W7D
MULTI-SLOTS CLASS	10	
WCDMA RELEASE VERSION	6	
ANTENNA TYPE	GSM	Fixed Internal antenna with -1.26dBi gain
	EDGE	
	WCDMA	
	LTE	
I/O PORTS	Refer to users' manual	
DATA CABLE	Refer to NOTE as below	
ACCESSORY DEVICES	Refer to NOTE as below	

NOTE:

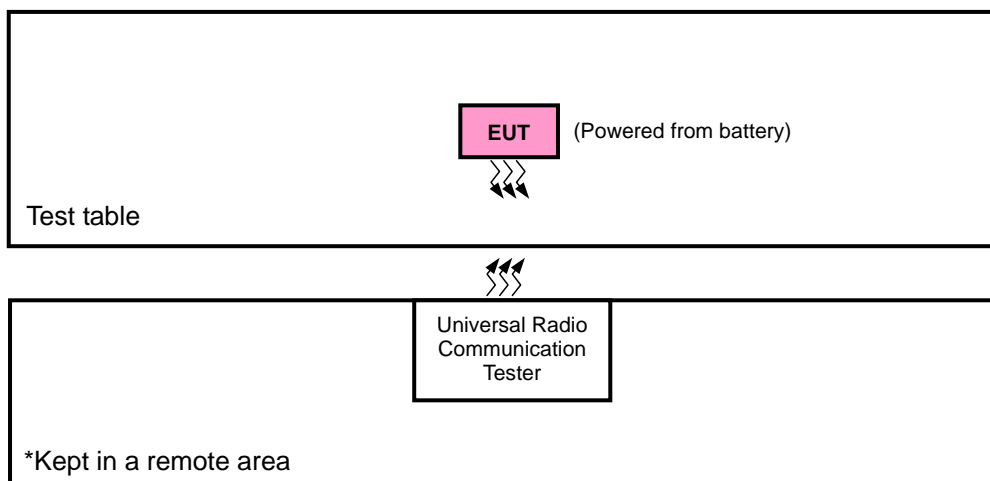
1. The EUT's accessories list refers to Ext Pho.pdf.
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.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 Y-plane for ERP and X-axis for GSM/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
ERP	128 to 251	128, 189, 251	GSM, EDGE
FREQUENCY STABILITY	128 to 251	189	GSM, EDGE
OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM, EDGE
BAND EDGE	128 to 251	128, 251	GSM, EDGE
CONDUCTED EMISSION	128 to 251	189	GSM
RADIATED EMISSION	128 to 251	189	GSM, EDGE

WCDMA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4182, 4233	WCDMA
FREQUENCY STABILITY	4132 to 4233	4182	WCDMA
OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
BAND EDGE	4132 to 4233	4132, 4233	WCDMA
CONDUCTED EMISSION	4132 to 4233	4182	WCDMA
RADIATED EMISSION	4132 to 4233	4182	WCDMA



LTE BAND 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB / 0 RB Offset
FREQUENCY STABILITY	23755 to 23825	20525	5MHz	QPSK	1 RB / 0 RB Offset
	23780 to 23800	20525	10MHz	QPSK	1 RB / 0 RB Offset
OCCUPIED BANDWIDTH	23755 to 23825	20525	5MHz	QPSK	25 RB / 0 RB Offset
	23780 to 23800	20525	10MHz	QPSK	50 RB / 0 RB Offset
BAND EDGE	23755 to 23825	20425, 20625	5MHz	QPSK	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
	23780 to 23800	20450, 20600	10MHz	QPSK	1 RB / 49 RB Offset
					50 RB / 0 RB Offset
CONDCUDED EMISSION	23755 to 23825	20525	5MHz	QPSK	1 RB / 0 RB Offset
	23780 to 23800	20525	10MHz	QPSK	1 RB / 0 RB Offset
RADIATED EMISSION	23755 to 23825	20525	5MHz	QPSK	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
				16QAM	1 RB / 24 RB Offset
					25 RB / 0 RB Offset
	23780 to 23800	20525	10MHz	QPSK	1 RB / 0 RB Offset
					50 RB / 0 RB Offset
				16QAM	1 RB / 0 RB Offset
					50 RB / 0 RB Offset

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	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
CONDCUDED EMISSION	26deg. C, 58%RH	3.8Vdc	Phoenix Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu



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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 22

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 7 watts e.r.p.

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

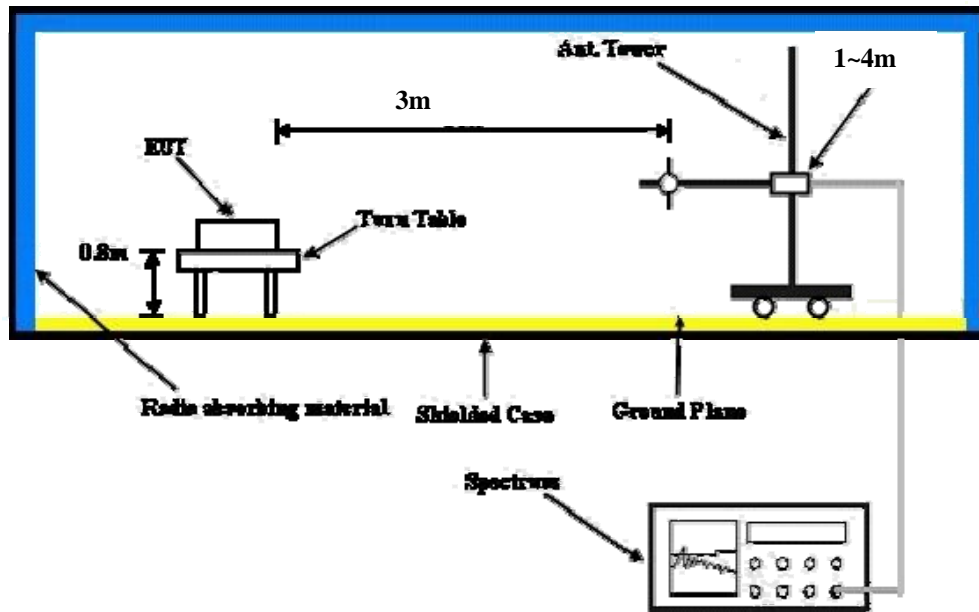
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated 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 form 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 & 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.

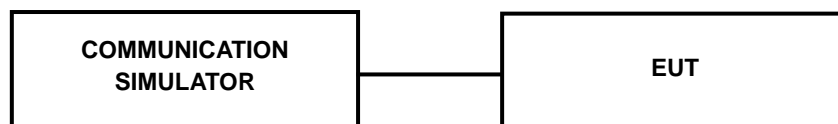
4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



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

CONDUCTED POWER MEASUREMENT:



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

4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	34.55	34.48	34.74
GPRS 8 (GMSK, 1 slot)	34.67	34.59	34.73
GPRS 10 (GMSK, 2 slot)	32.55	32.52	32.56
EDGE 8 (GMSK, 1 slot)	34.62	34.55	34.70
EDGE 10 (GMSK, 2 slot)	32.51	32.49	32.47
EDGE 8 (8PSK, 1 slot)	27.63	27.58	27.65
EDGE 10 (8PSK, 2 slot)	27.41	27.45	27.43

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.95	23.82	23.97
HSDPA Subtest-1	23.07	23.03	23.05
HSDPA Subtest-2	23.00	22.93	23.10
HSDPA Subtest-3	22.46	22.49	22.59
HSDPA Subtest-4	22.47	22.58	22.54
HSUPA Subtest-1	22.80	22.85	22.76
HSUPA Subtest-2	20.90	20.86	21.03
HSUPA Subtest-3	21.68	21.25	21.22
HSUPA Subtest-4	21.87	21.92	21.88
HSUPA Subtest-5	23.02	23.00	22.97



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LTE Band 5								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
5 MHz	QPSK	20425	826.5	1	0	0	24.7	24.19
		20525	836.5	1	0	0	24.7	24.47
		20625	846.5	1	0	0	24.7	24.44
		20425	826.5	1	24	0	24.7	24.48
		20525	836.5	1	24	0	24.7	24.58
		20625	846.5	1	24	0	24.7	24.56
		20425	826.5	12	6	1	24.7	23.38
		20525	836.5	12	6	1	24.7	23.49
		20625	846.5	12	6	1	24.7	23.47
		20425	826.5	25	0	1	24.7	23.3
		20525	836.5	25	0	1	24.7	23.37
		20625	846.5	25	0	1	24.7	23.33
	16QAM	20425	826.5	1	0	1	24.7	23.10
		20525	836.5	1	0	1	24.7	23.40
		20625	846.5	1	0	1	24.7	23.20
		20425	826.5	1	24	1	24.7	23.43
		20525	836.5	1	24	1	24.7	23.45
		20625	846.5	1	24	1	24.7	23.33
		20425	826.5	12	6	2	24.7	22.25
		20525	836.5	12	6	2	24.7	22.46
20625	846.5	12	6	2	24.7	22.45		
20425	826.5	25	0	2	24.7	22.15		
20525	836.5	25	0	2	24.7	22.28		
20625	846.5	25	0	2	24.7	22.27		



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LTE Band 5								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
10MHz	QPSK	20450	829	1	0	0	24.7	24.60
		20525	836.5	1	0	0	24.7	24.63
		20600	844	1	0	0	24.7	24.52
		20450	829	1	49	0	24.7	24.43
		20525	836.5	1	49	0	24.7	24.48
		20600	844	1	49	0	24.7	24.46
		20450	829	25	12	1	24.7	23.32
		20525	836.5	25	12	1	24.7	23.42
		20600	844	25	12	1	24.7	23.33
		20450	829	50	0	1	24.7	23.16
		20525	836.5	50	0	1	24.7	23.18
		20600	844	50	0	1	24.7	23.01
	16QAM	20450	829	1	0	1	24.7	23.17
		20525	836.5	1	0	1	24.7	23.38
		20600	844	1	0	1	24.7	23.22
		20450	829	1	49	1	24.7	23.59
		20525	836.5	1	49	1	24.7	23.61
		20600	844	1	49	1	24.7	23.51
		20450	829	25	12	2	24.7	22.15
		20525	836.5	25	12	2	24.7	22.26
		20600	844	25	12	2	24.7	21.96
		20450	829	50	0	2	24.7	21.98
		20525	836.5	50	0	2	24.7	22.11
		20600	844	50	0	2	24.7	22.09



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ERP POWER (dBm)

GSM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	128	824.2	-0.12	32.62	30.35	1083.93	H
	189	836.4	-0.76	32.52	29.61	914.11	H
	251	848.8	-0.57	32.65	29.93	984.01	H
	128	824.2	-10.30	32.76	20.31	107.40	V
	189	836.4	-10.65	32.39	19.59	90.99	V
	251	848.8	-10.08	32.54	20.31	107.40	V

EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	128	824.2	-6.67	32.62	23.80	239.88	H
	189	836.4	-7.25	32.52	23.12	205.12	H
	251	848.8	-6.97	32.65	23.53	225.42	H
	128	824.2	-16.99	32.76	13.62	23.01	V
	189	836.4	-16.68	32.39	13.56	22.70	V
	251	848.8	-16.36	32.54	14.03	25.29	V

WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	4132	826.4	-10.51	32.62	19.96	99.08	H
	4182	836.4	-10.35	32.52	20.02	100.46	H
	4233	846.6	-10.66	32.65	19.84	96.38	H
	4132	826.4	-20.85	32.76	9.76	9.46	V
	4182	836.4	-20.55	32.39	9.69	9.31	V
	4233	846.6	-20.73	32.54	9.66	9.25	V



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LTE BAND 5

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20425	826.5	-11.28	32.62	19.19	82.99	H
	20525	836.5	-11.13	32.52	19.24	83.95	H
	20625	846.5	-11.39	32.65	19.11	81.47	H
	20425	826.5	-18.73	32.76	11.88	15.42	V
	20525	836.5	-18.10	32.39	12.14	16.37	V
	20625	846.5	-18.90	32.54	11.49	14.09	V

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20450	829	-11.47	32.62	19.00	79.43	H
	20525	836.5	-11.05	32.52	19.32	85.51	H
	20600	844	-10.83	32.65	19.67	92.68	H
	20450	829	-15.17	32.76	15.44	34.99	V
	20525	836.5	-15.09	32.39	15.15	32.73	V
	20600	844	-15.24	32.54	15.15	32.73	V

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

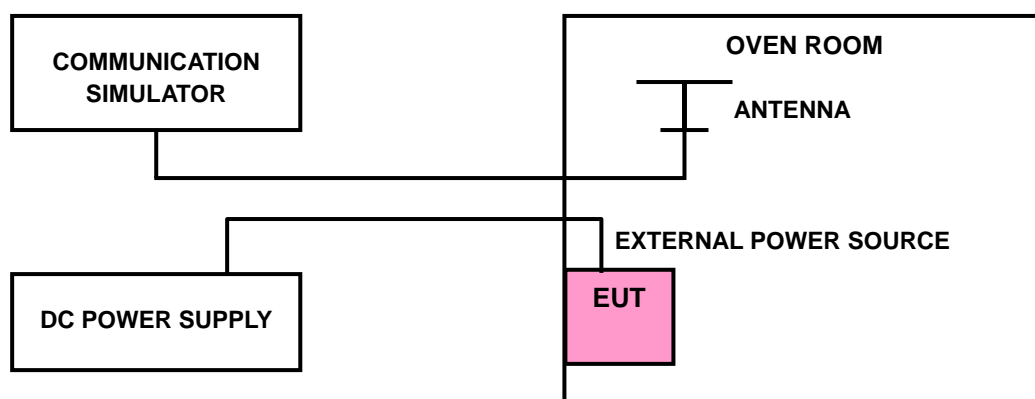
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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)
	GPRS	EDGE	WCDMA	LTE Band 5		
				5MHz	10MHz	
3.8	-0.03	-0.04	-0.06	0.00	0.00	2.5
3.6	-0.02	-0.04	-0.05	0.00	0.00	2.5
4.2	-0.03	-0.04	-0.06	0.00	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.

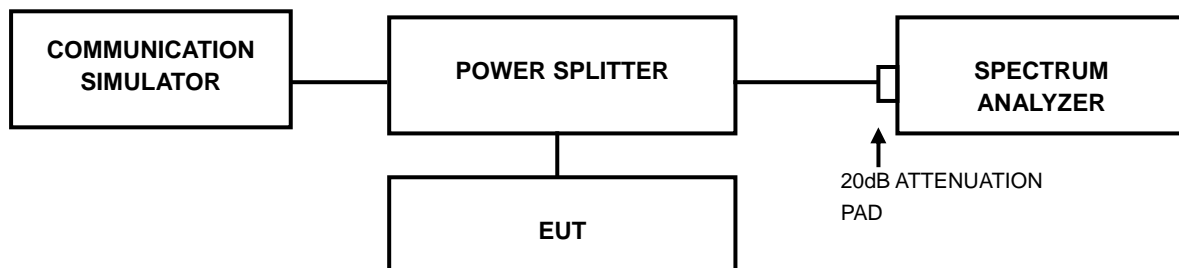
TEMP. (°C)	FREQUENCY ERROR (ppm)					LIMIT (ppm)
	GPRS	EDGE	WCDMA	LTE Band 5		
				5MHz	10MHz	
-10	-0.02	-0.03	-0.05	0.00	0.00	2.5
0	-0.02	-0.03	-0.05	0.00	0.00	2.5
10	-0.03	-0.04	-0.06	-0.01	0.00	2.5
20	-0.02	-0.03	-0.06	-0.01	0.00	2.5
30	-0.03	-0.04	-0.07	0.00	0.00	2.5
40	-0.03	-0.03	-0.06	0.00	0.00	2.5
50	-0.02	-0.03	-0.07	-0.01	0.00	2.5
55	-0.03	-0.04	-0.06	-0.01	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

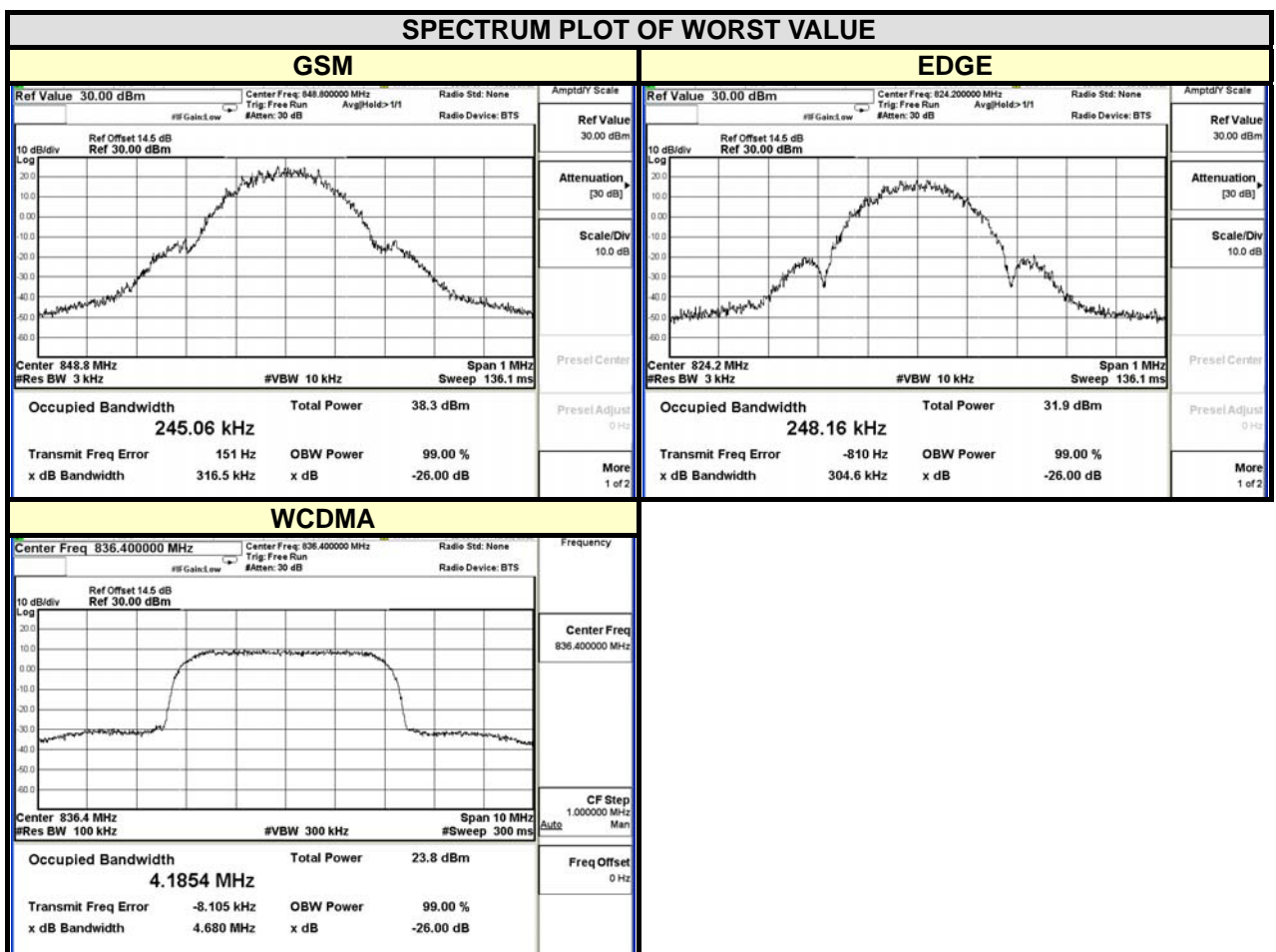




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4.3.3 TEST RESULTS

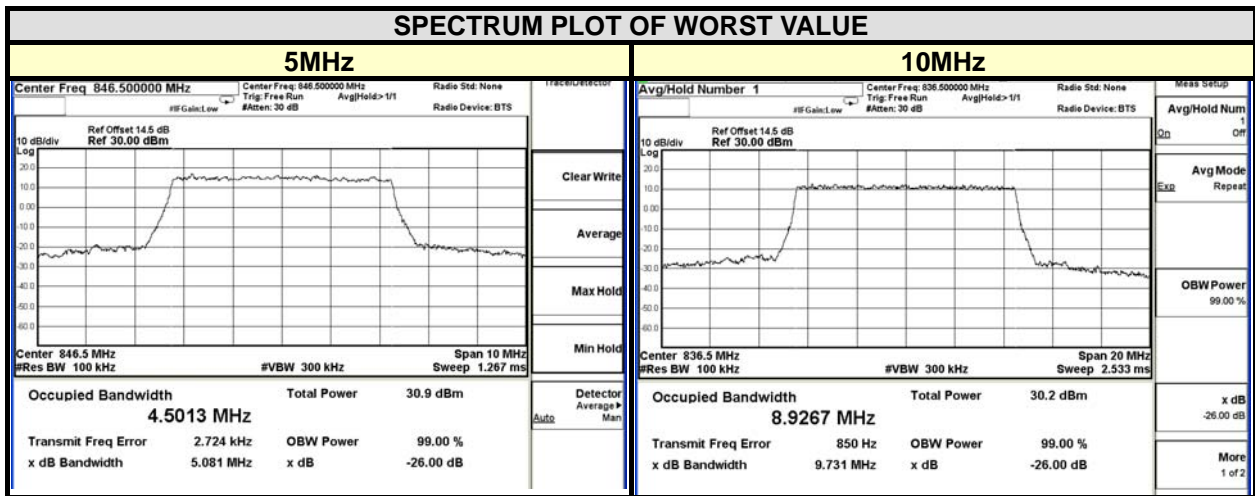
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GPRS	EDGE			WCDMA
128	824.2	243.49	248.16	4132	826.4	4.1678
189	836.4	244.00	246.38	4182	836.4	4.1854
251	848.8	245.06	245.09	4233	846.6	4.1800





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LTE BAND 5					
CHANNEL BANDWIDTH: 5MHz			CHANNEL BANDWIDTH: 10MHz		
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
20425	826.5	4.4986	20450	829	8.9112
20525	836.5	4.5008	20525	836.5	8.9267
20625	846.5	4.5013	20600	844	8.9147

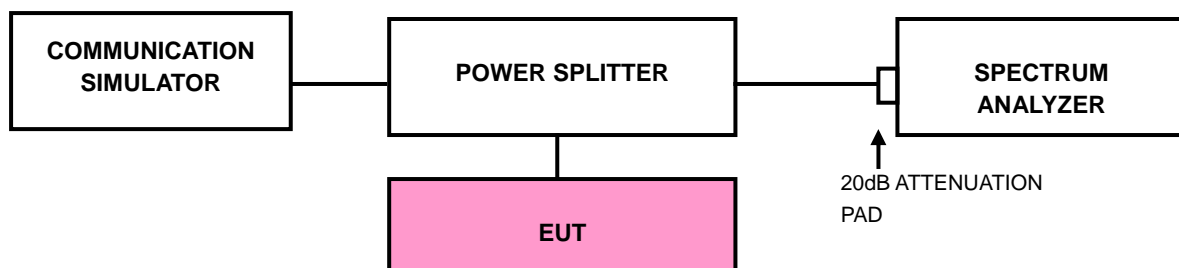


4.4 BAND EDGE MEASUREMENT

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



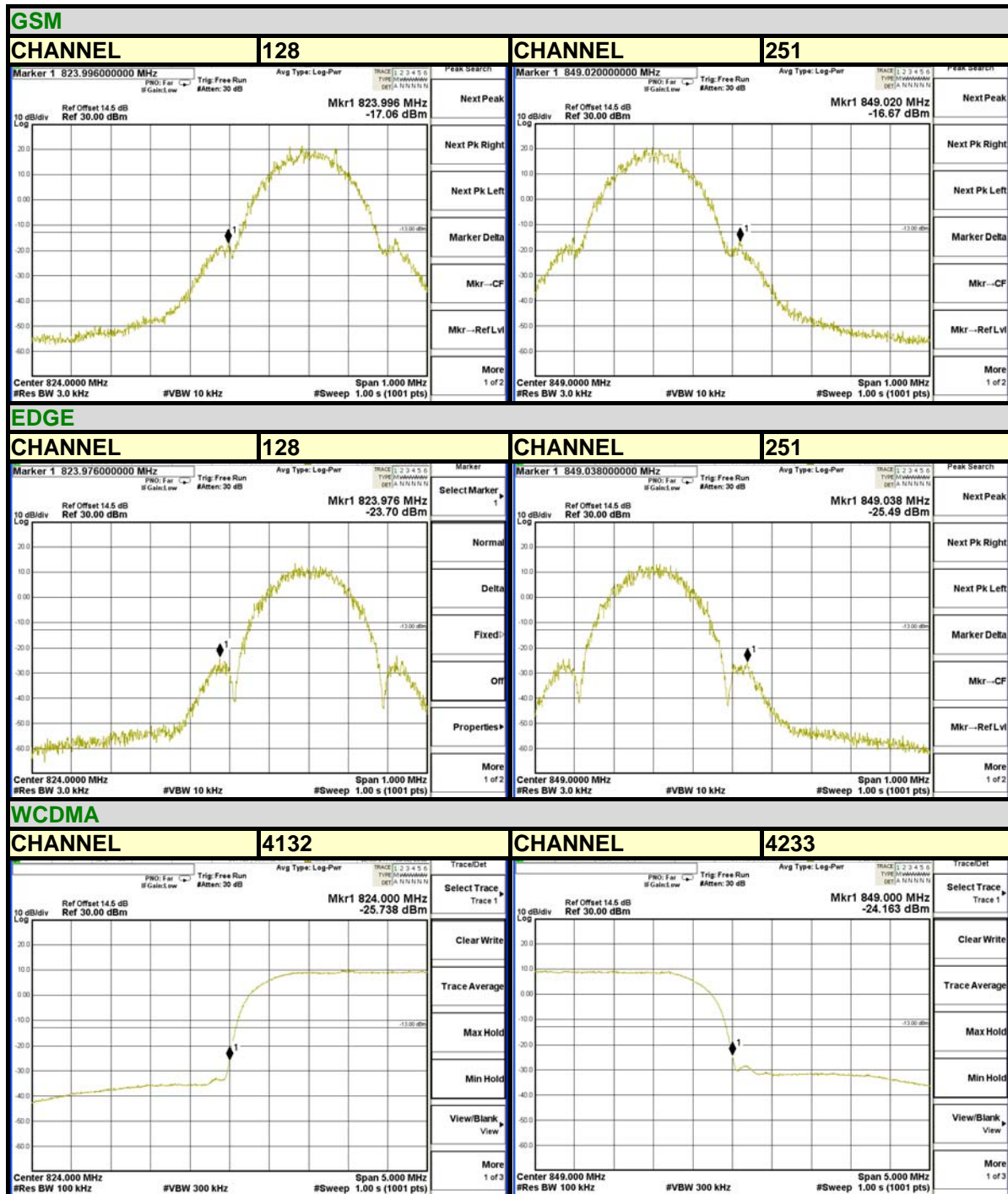
4.4.3 TEST PROCEDURES

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



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4.4.4 TEST RESULTS

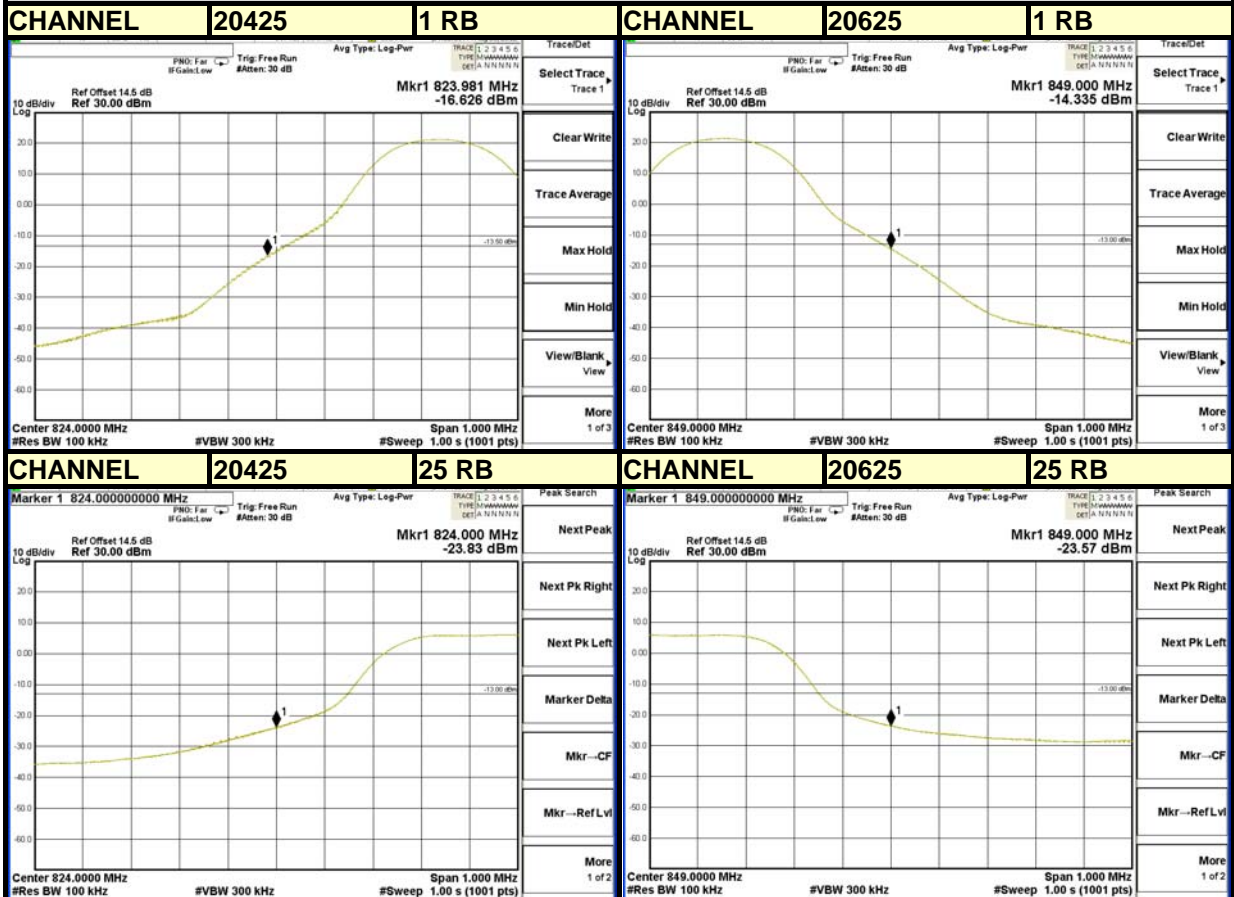




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LTE Band 5

Channel Bandwidth: 5MHz

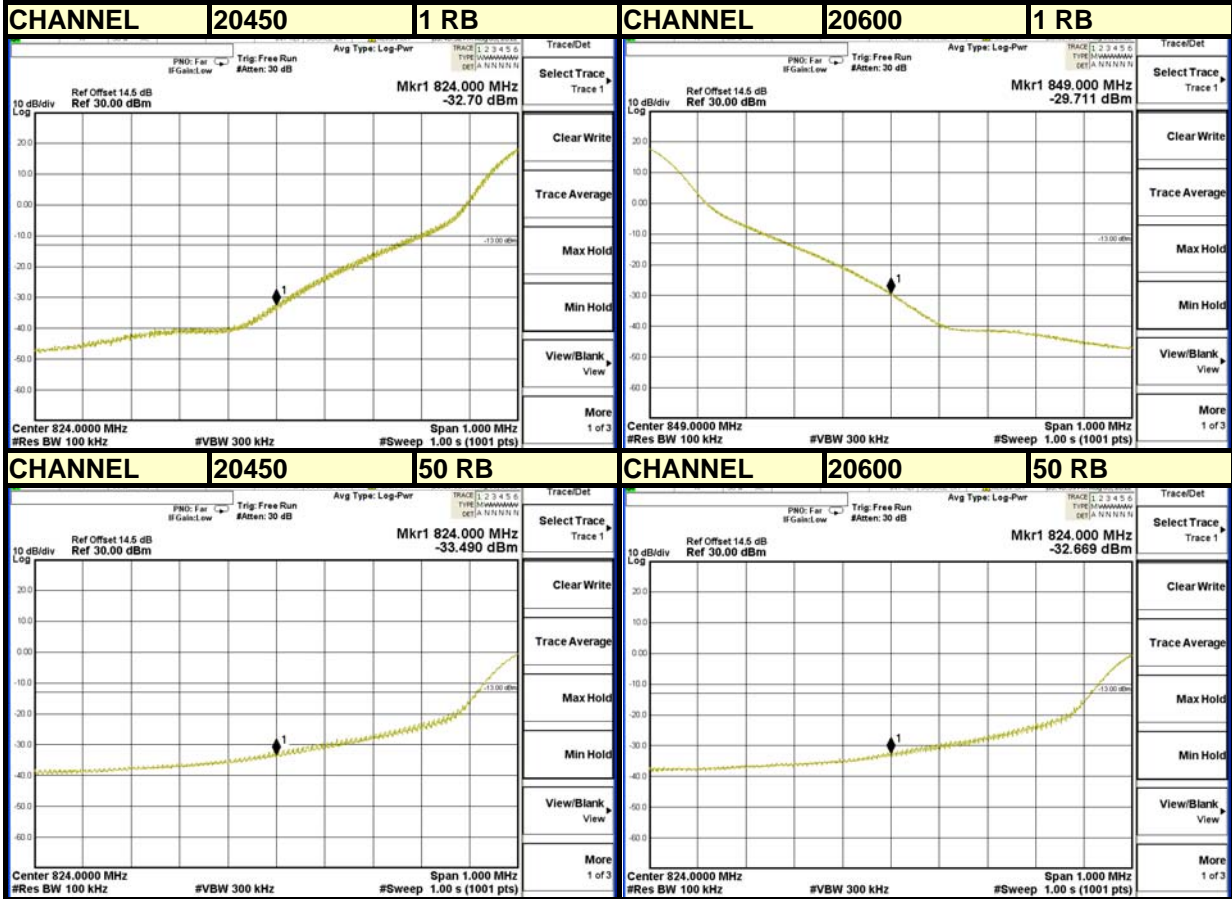




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LTE Band 5

Channel Bandwidth: 10MHz



4.5 CONDUCTED SPURIOUS EMISSIONS

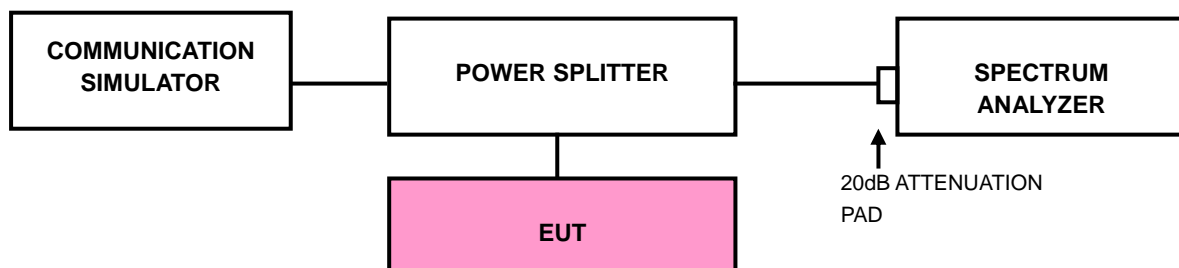
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 .

4.5.2 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 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

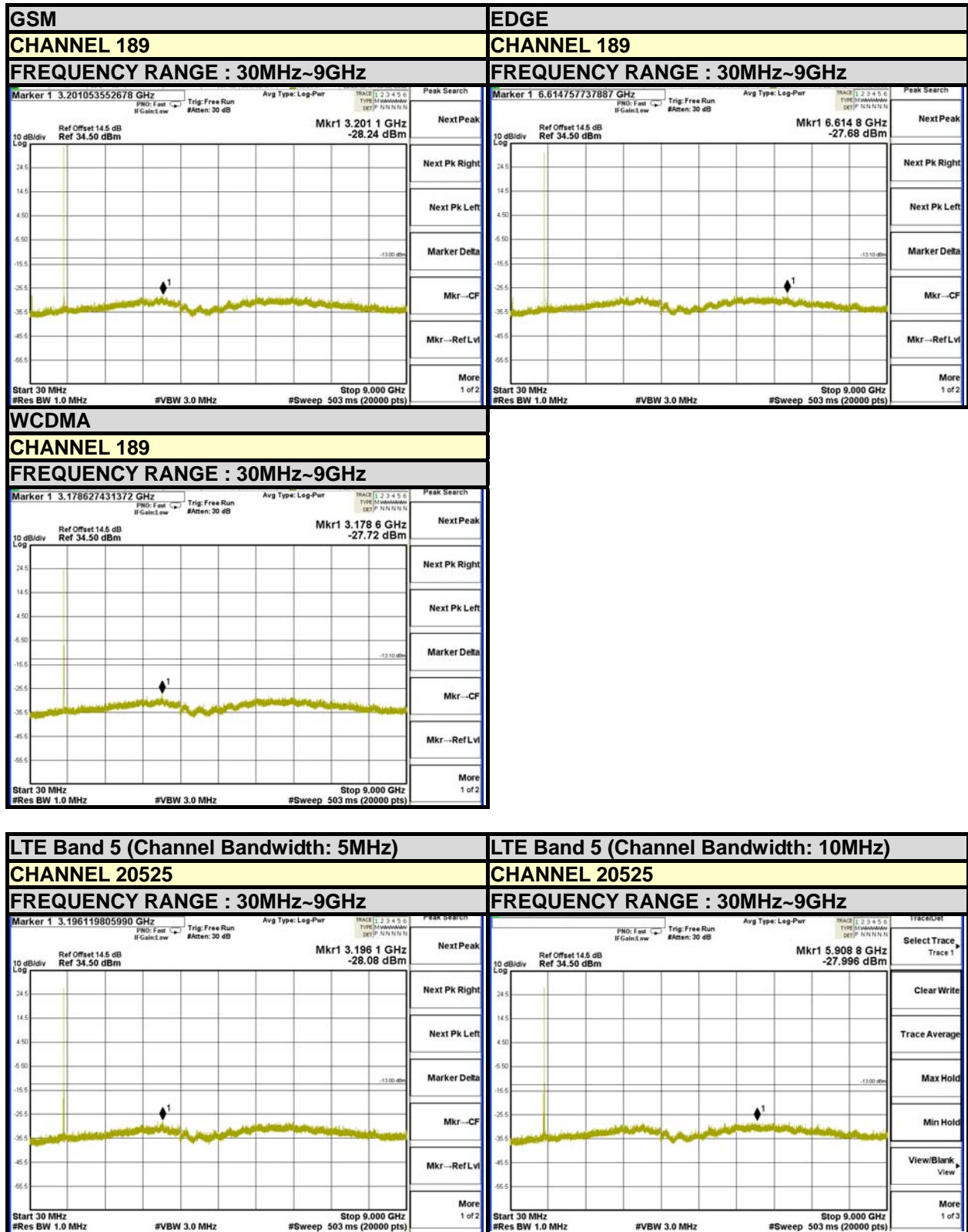
4.5.3 TEST SETUP





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4.5.4 TEST RESULTS



4.6 RADIATED EMISSION MEASUREMENT

4.6.1 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 .

4.6.2 TEST PROCEDURES

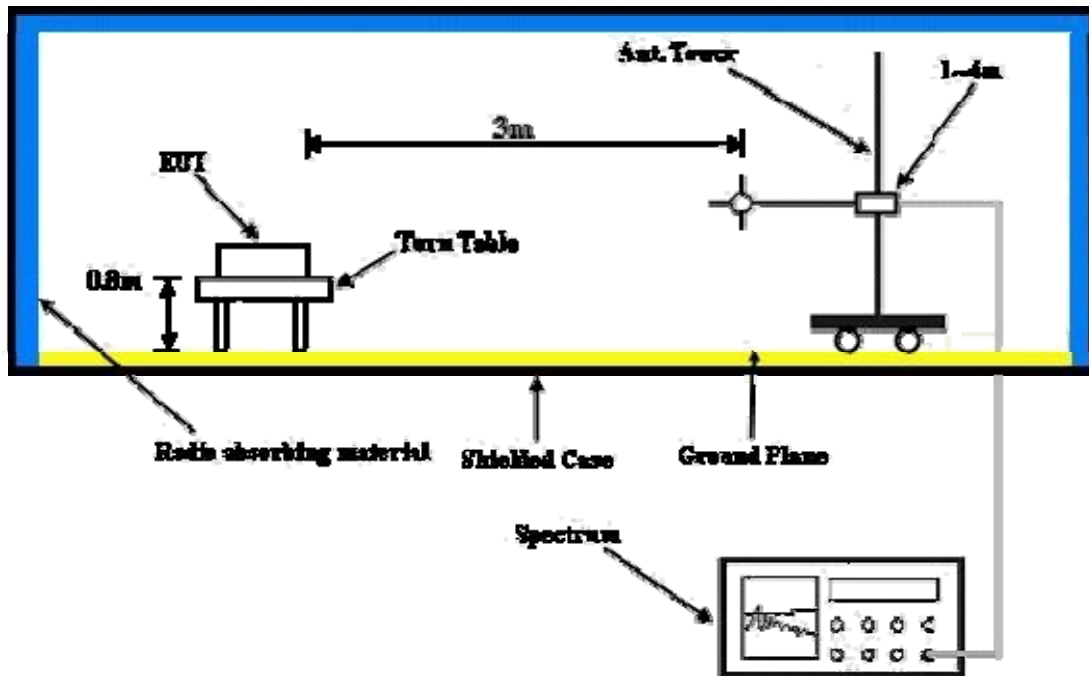
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi.}$

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

4.6.3 DEVIATION FROM TEST STANDARD

No deviation

4.6.4 TEST SETUP



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

4.6.5 TEST RESULTS

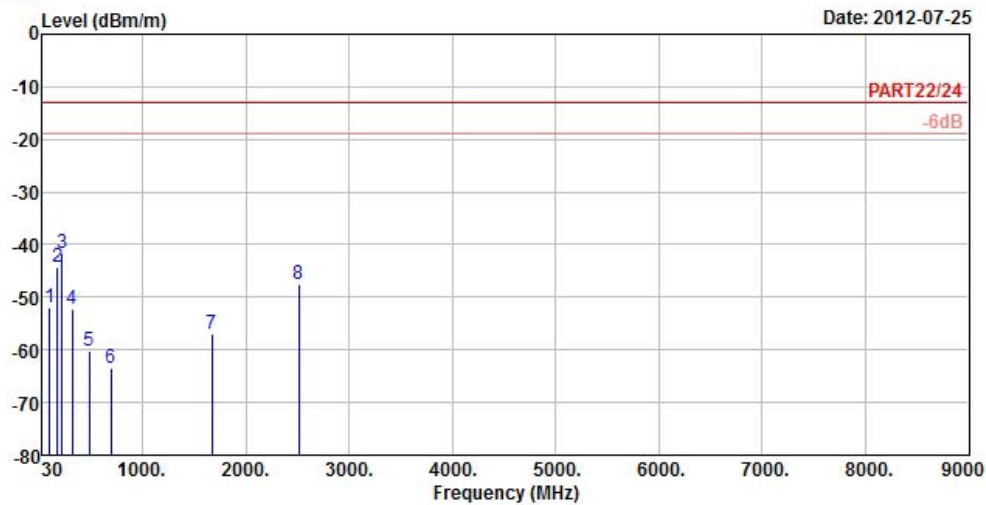
GSM:



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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : GSM850 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X

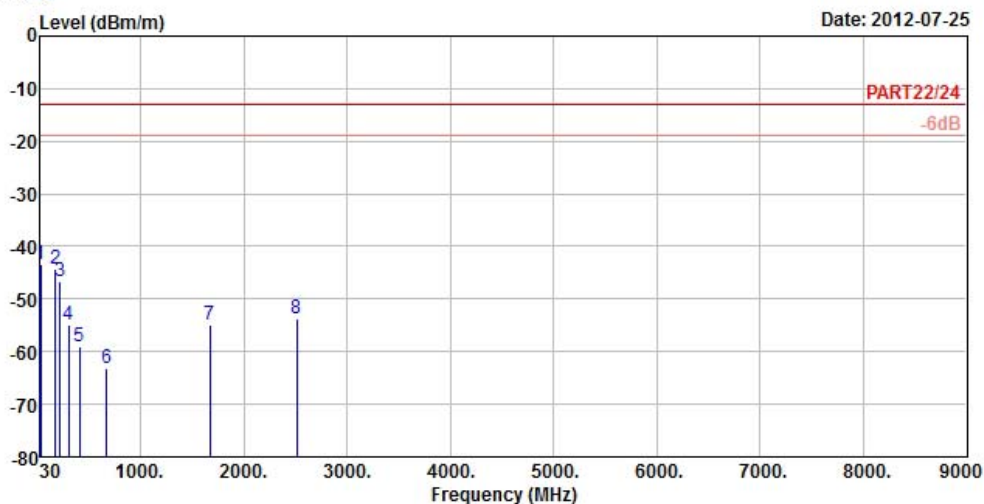
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	103.17	-52.10	-41.64	-13.00	-39.10	-10.46 Peak
2	174.99	-44.37	-37.58	-13.00	-31.37	-6.79 Peak
3 pp	222.78	-41.55	-34.65	-13.00	-28.55	-6.90 Peak
4	319.60	-52.24	-46.01	-13.00	-39.24	-6.23 Peak
5	482.70	-60.13	-56.60	-13.00	-47.13	-3.53 Peak
6	692.00	-63.37	-64.66	-13.00	-50.37	1.29 Peak
7	1672.80	-56.94	-44.12	-13.00	-43.94	-12.82 Peak
8	2509.20	-47.52	-38.35	-13.00	-34.52	-9.17 Peak



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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : GSM850 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	33.24	-43.49	-42.38	-13.00	-30.49	-1.11	Peak
2	173.91	-44.26	-37.49	-13.00	-31.26	-6.77	Peak
3	223.05	-46.63	-39.73	-13.00	-33.63	-6.90	Peak
4	300.00	-54.95	-48.57	-13.00	-41.95	-6.38	Peak
5	408.50	-59.07	-53.65	-13.00	-46.07	-5.42	Peak
6	671.70	-63.03	-63.97	-13.00	-50.03	0.94	Peak
7	1672.80	-54.94	-42.12	-13.00	-41.94	-12.82	Peak
8	2509.20	-53.61	-44.44	-13.00	-40.61	-9.17	Peak



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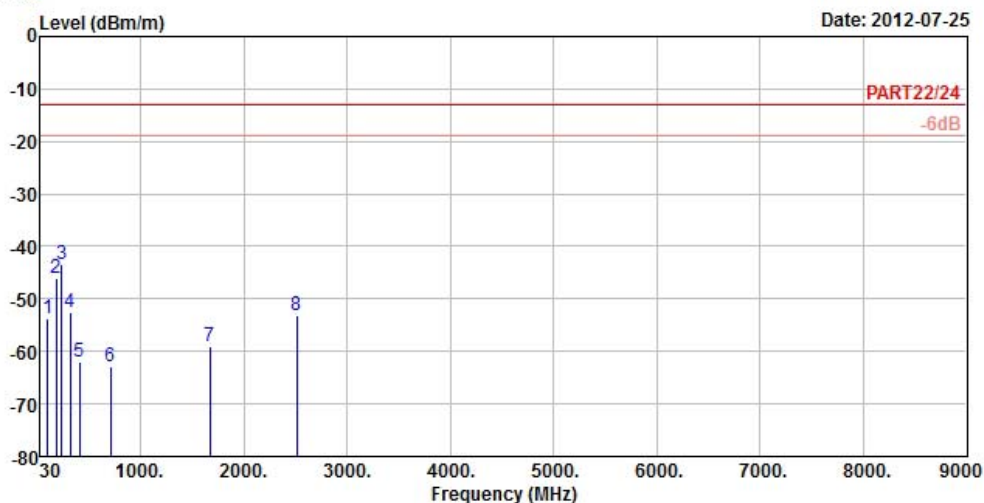
EDGE:



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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : EDGE Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X

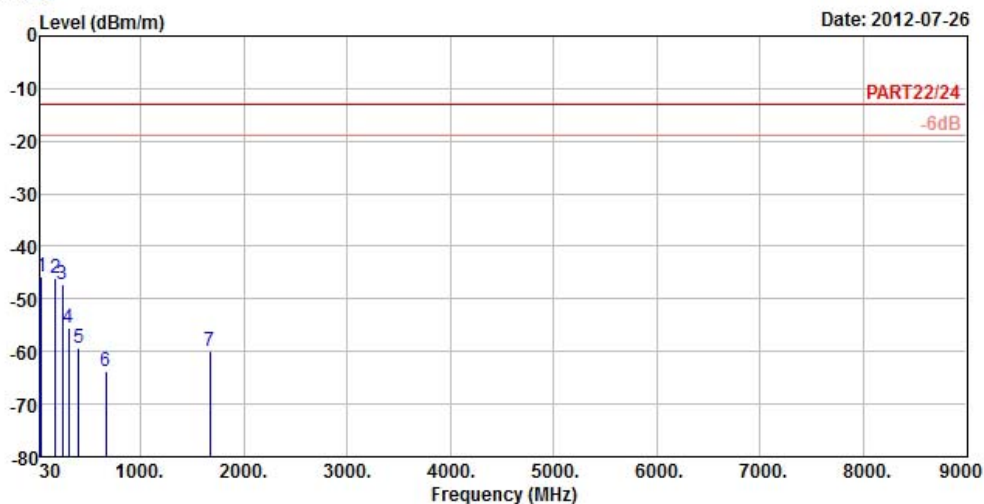
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	101.01	-53.70	-43.28	-13.00	-40.70	-10.42	Peak
2	179.04	-45.94	-40.08	-13.00	-32.94	-5.86	Peak
3 pp	235.47	-43.35	-37.02	-13.00	-30.35	-6.33	Peak
4	317.50	-52.62	-46.37	-13.00	-39.62	-6.25	Peak
5	407.10	-61.96	-56.52	-13.00	-48.96	-5.44	Peak
6	710.90	-62.80	-64.32	-13.00	-49.80	1.52	Peak
7	1672.80	-59.10	-46.28	-13.00	-46.10	-12.82	Peak
8	2509.20	-53.14	-43.97	-13.00	-40.14	-9.17	Peak



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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : EDGE Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	42.42	-45.82	-44.49	-13.00	-32.82	-1.33	Peak
2	174.99	-46.05	-39.26	-13.00	-33.05	-6.79	Peak
3	240.87	-47.28	-41.16	-13.00	-34.28	-6.12	Peak
4	300.00	-55.54	-49.16	-13.00	-42.54	-6.38	Peak
5	397.30	-59.42	-53.77	-13.00	-46.42	-5.65	Peak
6	665.40	-63.83	-64.65	-13.00	-50.83	0.82	Peak
7	1672.80	-59.95	-47.13	-13.00	-46.95	-12.82	Peak



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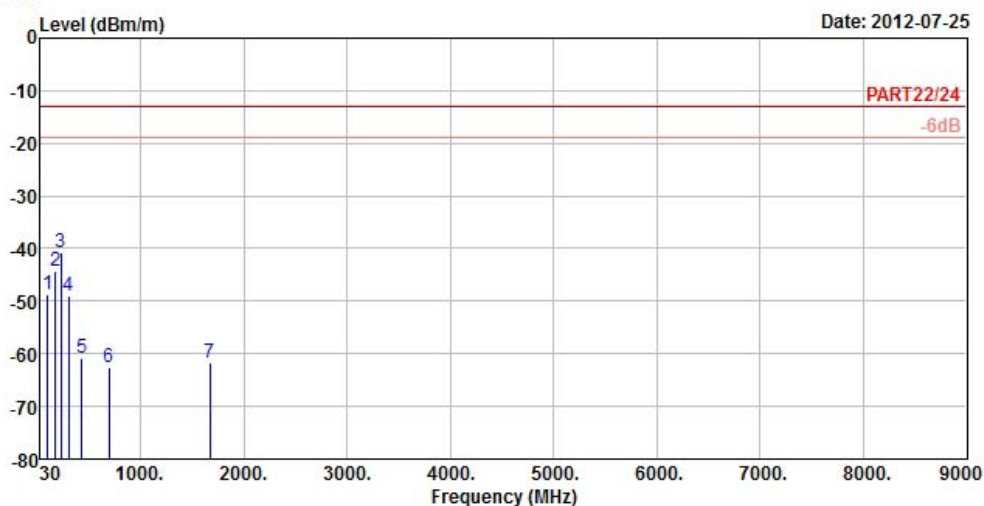
WCDMA:



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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : Band V Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X

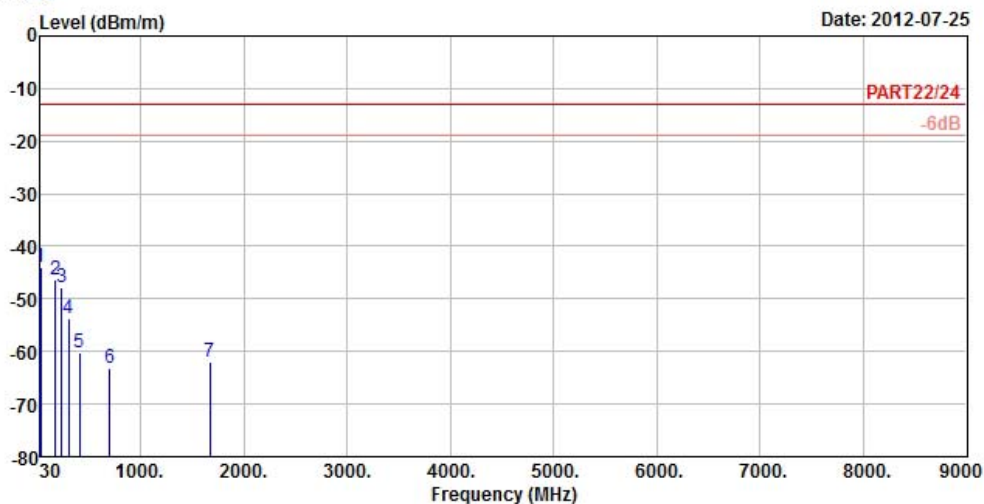
	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	98.85	-48.61	-38.19	-13.00	-35.61	-10.42	Peak
2	173.64	-44.21	-37.44	-13.00	-31.21	-6.77	Peak
3 pp	228.72	-40.76	-34.12	-13.00	-27.76	-6.64	Peak
4	304.20	-49.08	-42.74	-13.00	-36.08	-6.34	Peak
5	430.90	-60.85	-55.99	-13.00	-47.85	-4.86	Peak
6	692.00	-62.61	-63.90	-13.00	-49.61	1.29	Peak
7	1672.80	-61.72	-48.90	-13.00	-48.72	-12.82	Peak



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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : Band V Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	33.24	-43.92	-42.81	-13.00	-30.92	-1.11	Peak
2	173.64	-46.33	-39.56	-13.00	-33.33	-6.77	Peak
3	235.47	-47.70	-41.37	-13.00	-34.70	-6.33	Peak
4	300.00	-53.79	-47.41	-13.00	-40.79	-6.38	Peak
5	407.80	-60.22	-54.78	-13.00	-47.22	-5.44	Peak
6	698.30	-63.14	-64.56	-13.00	-50.14	1.42	Peak
7	1672.80	-61.87	-49.05	-13.00	-48.87	-12.82	Peak

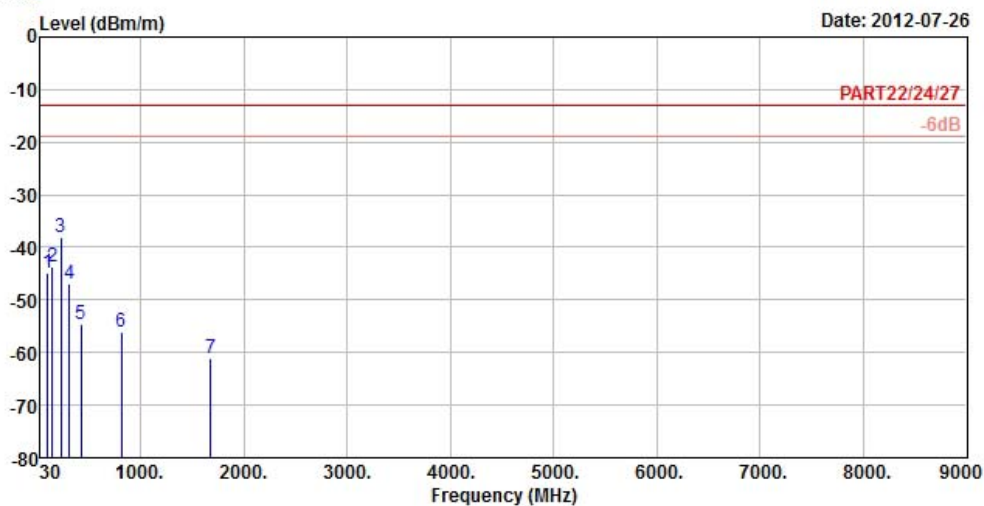
CHANNEL BANDWIDTH: 5MHz / QPSK



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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(QPSK1,24)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

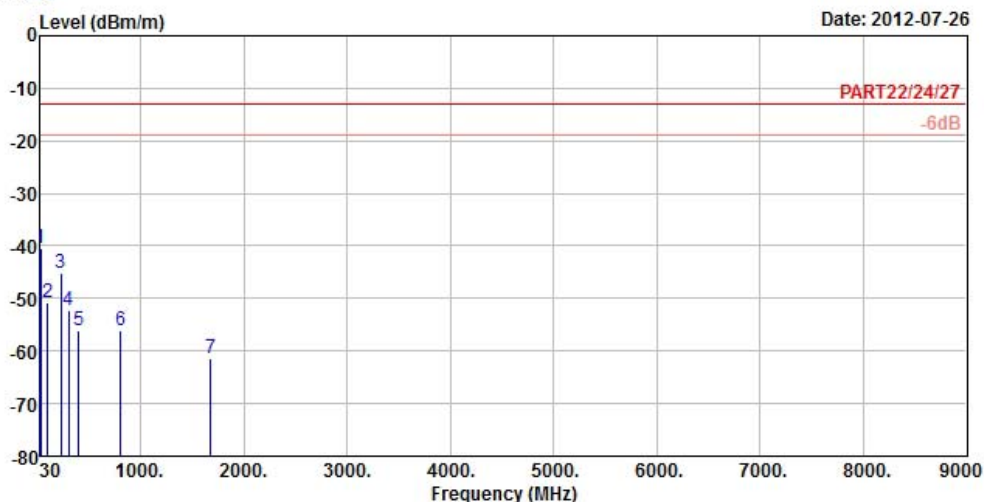
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	97.23	-44.95	-34.50	-13.00	-31.95	-10.45	Peak
2	144.21	-43.66	-37.68	-13.00	-30.66	-5.98	Peak
3 pp	226.29	-38.12	-31.35	-13.00	-25.12	-6.77	Peak
4	311.90	-46.82	-40.53	-13.00	-33.82	-6.29	Peak
5	421.80	-54.74	-49.66	-13.00	-41.74	-5.08	Peak
6	811.70	-56.24	-58.44	-13.00	-43.24	2.20	Peak
7	1677.40	-61.11	-48.37	-13.00	-48.11	-12.74	Peak



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A D T

Data: 10



Site : 966 Chamber 5
 Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(QPSK1,24)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

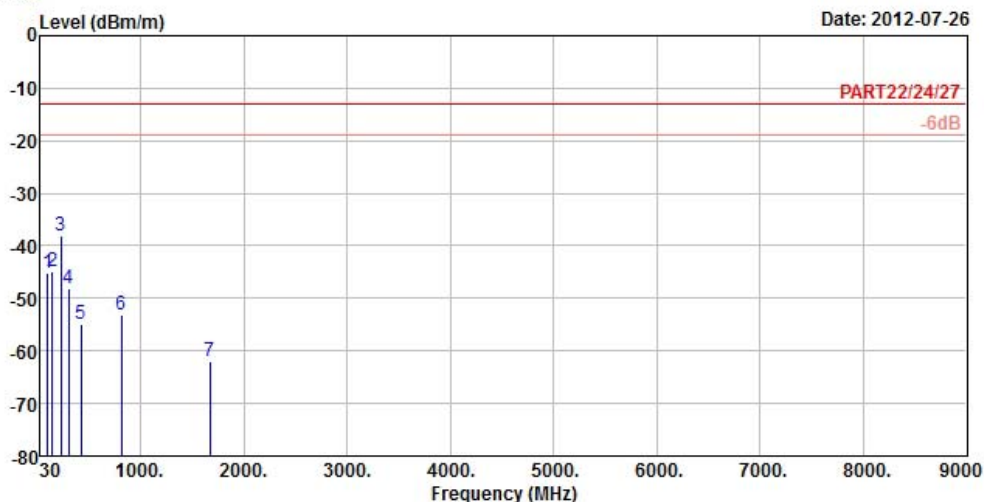
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	33.24	-40.57	-39.46	-13.00	-27.57	-1.11	Peak
2	97.23	-50.83	-40.38	-13.00	-37.83	-10.45	Peak
3	229.26	-45.05	-38.41	-13.00	-32.05	-6.64	Peak
4	300.70	-52.37	-46.00	-13.00	-39.37	-6.37	Peak
5	397.30	-56.05	-50.40	-13.00	-43.05	-5.65	Peak
6	808.90	-56.20	-58.38	-13.00	-43.20	2.18	Peak
7	1677.40	-61.31	-48.57	-13.00	-48.31	-12.74	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
 Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(QPSK 25,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

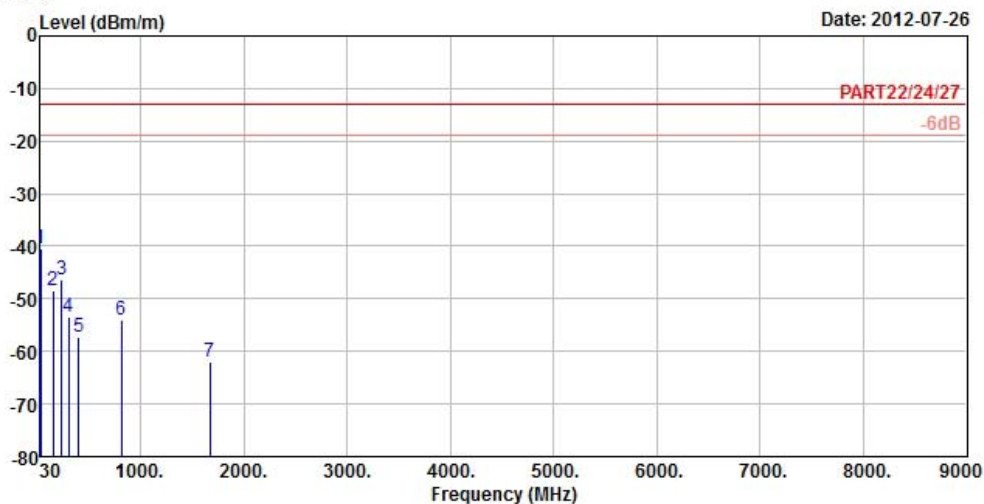
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	97.77	-45.06	454.94	-13.00	-32.06	-500.00	Peak
2	144.48	-44.73	455.27	-13.00	-31.73	-500.00	Peak
3 pp	228.45	-38.22	461.78	-13.00	-25.22	-500.00	Peak
4	301.40	-47.97	452.03	-13.00	-34.97	-500.00	Peak
5	425.30	-54.77	445.23	-13.00	-41.77	-500.00	Peak
6	811.70	-53.05	446.95	-13.00	-40.05	-500.00	Peak
7	1673.00	-62.01	-49.19	-13.00	-49.01	-12.82	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
 Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(QPSK 25,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	32.70	-40.37	459.63	-13.00	-27.37	-500.00	Peak
2	149.61	-48.50	451.50	-13.00	-35.50	-500.00	Peak
3	236.01	-46.41	453.59	-13.00	-33.41	-500.00	Peak
4	300.00	-53.35	446.65	-13.00	-40.35	-500.00	Peak
5	400.80	-57.14	442.86	-13.00	-44.14	-500.00	Peak
6	812.40	-53.94	446.06	-13.00	-40.94	-500.00	Peak
7	1673.00	-61.94	-49.12	-13.00	-48.94	-12.82	Peak

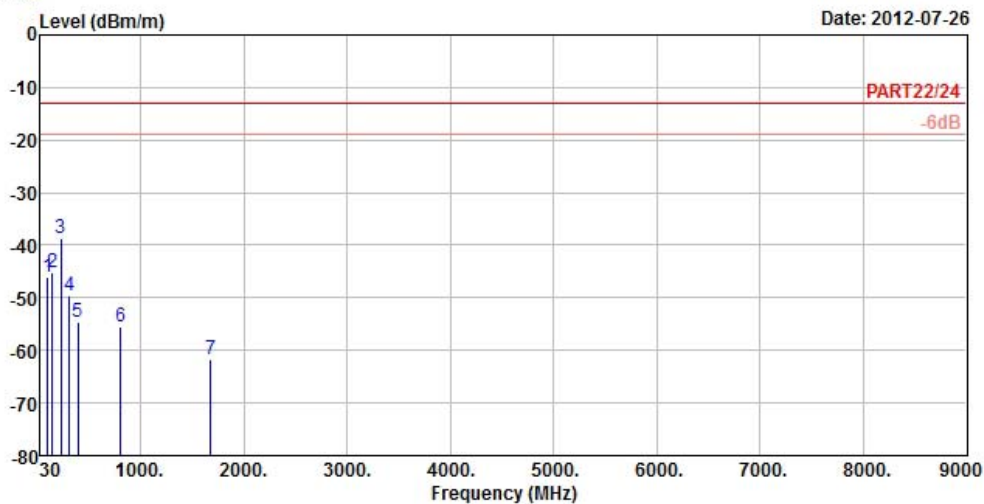
CHANNEL BANDWIDTH: 5MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9



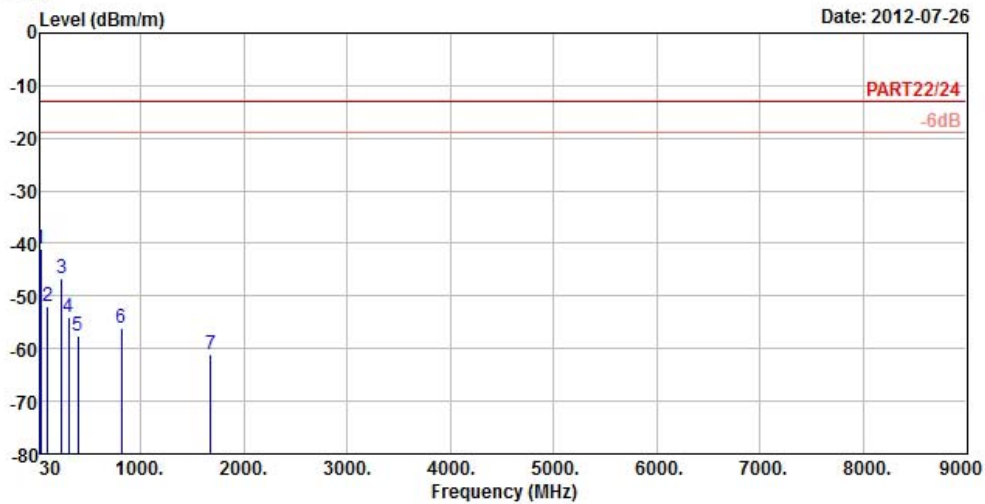
Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(16QAM 1,24)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	97.77	-46.10	-35.66	-13.00	-33.10	-10.44	Peak
2	144.48	-45.15	-39.17	-13.00	-32.15	-5.98	Peak
3 pp	230.88	-38.76	-32.21	-13.00	-25.76	-6.55	Peak
4	314.00	-49.48	-43.21	-13.00	-36.48	-6.27	Peak
5	393.80	-54.53	-48.85	-13.00	-41.53	-5.68	Peak
6	809.60	-55.40	-57.59	-13.00	-42.40	2.19	Peak
7	1677.40	-61.76	-49.02	-13.00	-48.76	-12.74	Peak



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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(16QAM 1,24)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

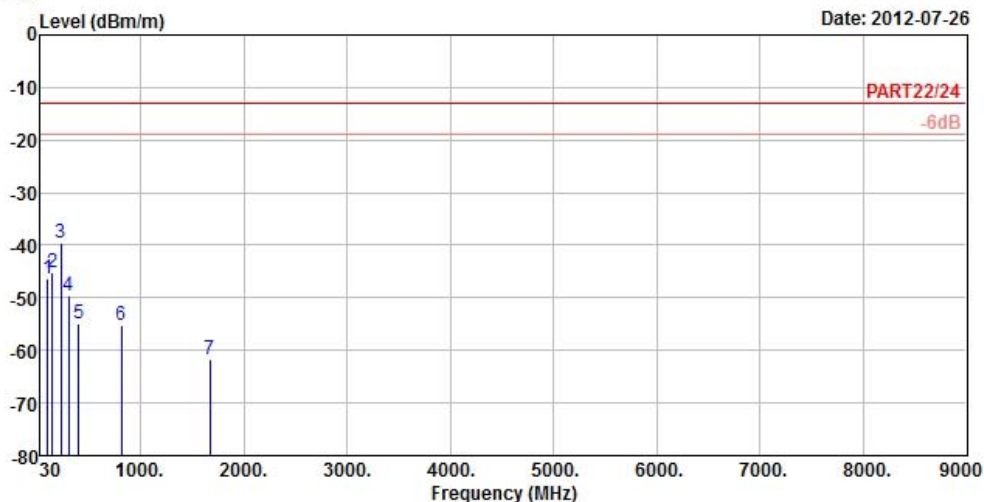
	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1 pp	33.51	-40.94	-39.10	-13.00	-27.94	-1.84	Peak
2	97.50	-52.05	-41.61	-13.00	-39.05	-10.44	Peak
3	236.01	-46.74	-40.41	-13.00	-33.74	-6.33	Peak
4	300.00	-53.93	-47.55	-13.00	-40.93	-6.38	Peak
5	393.80	-57.47	-51.79	-13.00	-44.47	-5.68	Peak
6	811.00	-56.22	-58.41	-13.00	-43.22	2.19	Peak
7	1677.40	-61.03	-48.29	-13.00	-48.03	-12.74	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(16QAM 25,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

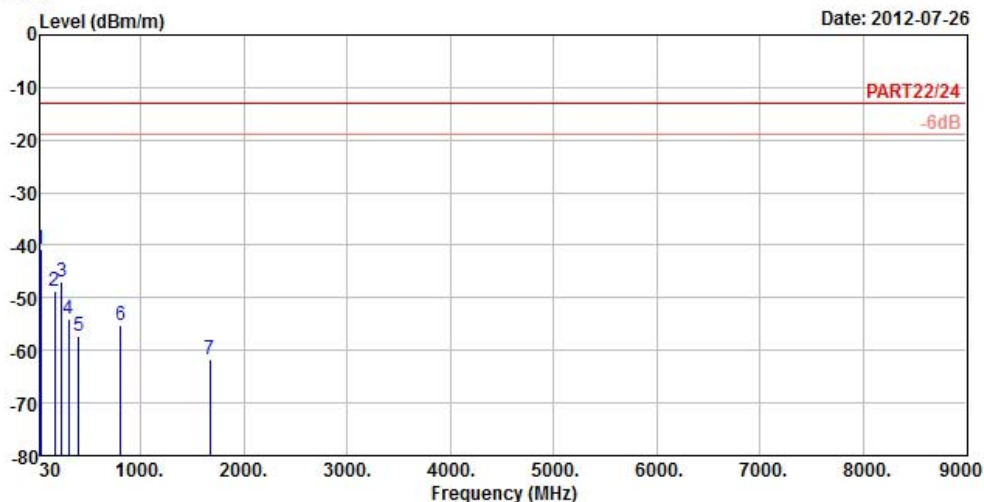
	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	97.77	-46.22	-35.78	-13.00	-33.22	-10.44	Peak
2	144.48	-45.20	-39.22	-13.00	-32.20	-5.98	Peak
3 pp	229.53	-39.50	-32.90	-13.00	-26.50	-6.60	Peak
4	300.70	-49.69	-43.32	-13.00	-36.69	-6.37	Peak
5	400.10	-55.05	-49.43	-13.00	-42.05	-5.62	Peak
6	811.00	-55.19	-57.38	-13.00	-42.19	2.19	Peak
7	1673.00	-61.56	-48.74	-13.00	-48.56	-12.82	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_5M_(16QAM 25,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	33.51	-40.86	-39.02	-13.00	-27.86	-1.84	Peak
2	168.24	-48.64	-41.96	-13.00	-35.64	-6.68	Peak
3	234.66	-46.85	-40.47	-13.00	-33.85	-6.38	Peak
4	300.00	-54.08	-47.70	-13.00	-41.08	-6.38	Peak
5	400.10	-57.36	-51.74	-13.00	-44.36	-5.62	Peak
6	809.60	-55.25	-57.44	-13.00	-42.25	2.19	Peak
7	1673.00	-61.59	-48.77	-13.00	-48.59	-12.82	Peak

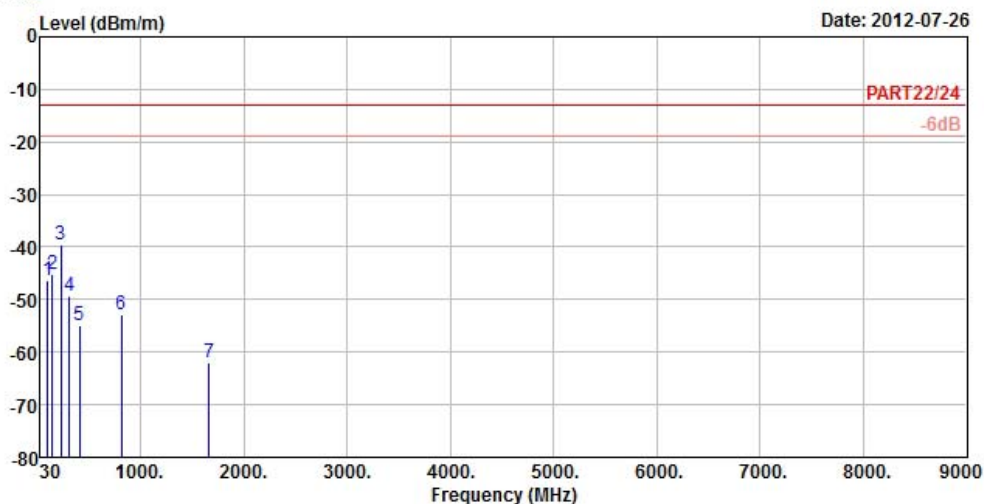
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(QPSK1,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	97.77	-46.44	-36.00	-13.00	-33.44	-10.44	Peak
2	144.75	-45.25	-39.27	-13.00	-32.25	-5.98	Peak
3 pp	228.72	-39.43	-32.79	-13.00	-26.43	-6.64	Peak
4	312.60	-49.31	-43.02	-13.00	-36.31	-6.29	Peak
5	405.00	-54.80	-49.31	-13.00	-41.80	-5.49	Peak
6	812.40	-52.95	-55.15	-13.00	-39.95	2.20	Peak
7	1664.20	-61.86	-49.04	-13.00	-48.86	-12.82	Peak



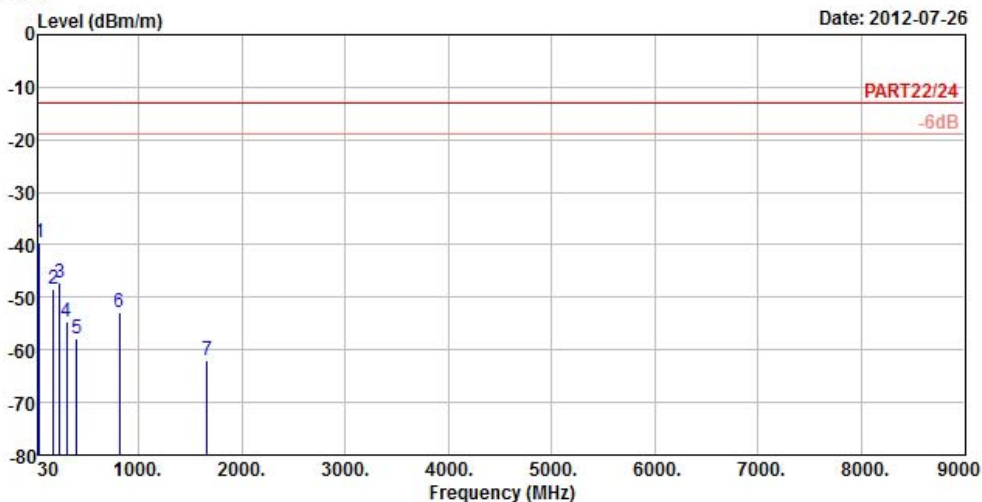
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(QPSK1,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

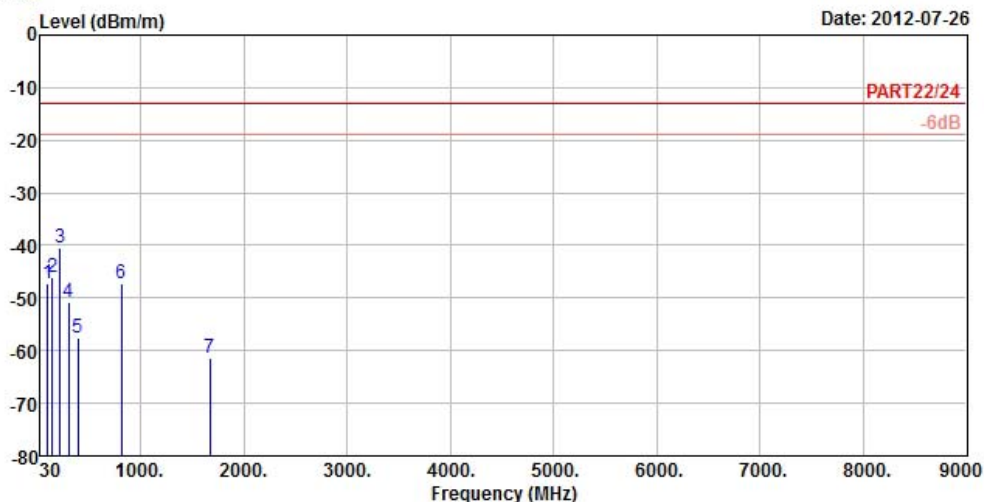
	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 pp	43.23	-39.49	-38.23	-13.00	-26.49	-1.26	Peak
2	172.83	-48.51	-41.76	-13.00	-35.51	-6.75	Peak
3	236.28	-47.18	-40.89	-13.00	-34.18	-6.29	Peak
4	300.70	-54.50	-48.13	-13.00	-41.50	-6.37	Peak
5	400.10	-57.81	-52.19	-13.00	-44.81	-5.62	Peak
6	812.40	-52.98	-55.18	-13.00	-39.98	2.20	Peak
7	1664.20	-61.93	-49.11	-13.00	-48.93	-12.82	Peak



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Data: 9



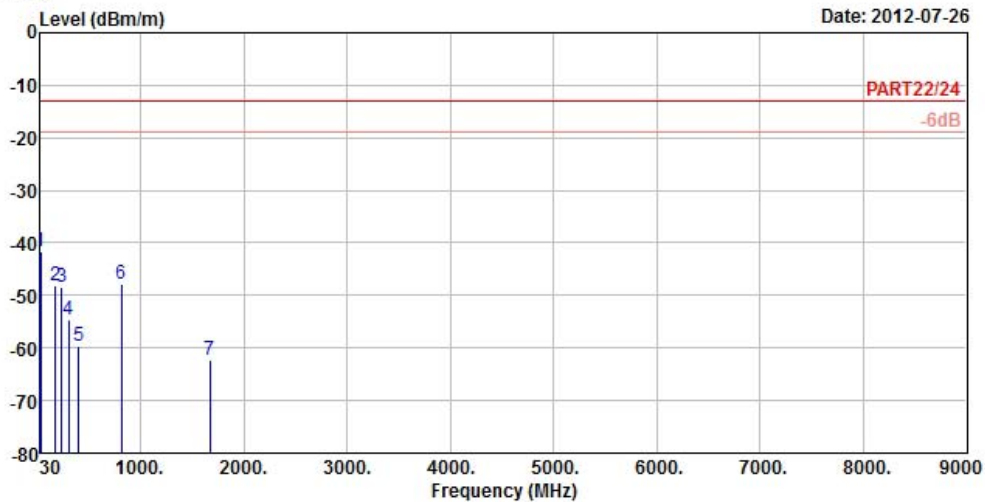
Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(QPSK 50,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	98.58	-47.17	-36.75	-13.00	-34.17	-10.42	Peak
2	143.13	-45.98	-40.06	-13.00	-32.98	-5.92	Peak
3 pp	223.59	-40.47	-33.61	-13.00	-27.47	-6.86	Peak
4	300.00	-50.86	-44.48	-13.00	-37.86	-6.38	Peak
5	390.30	-57.54	-51.83	-13.00	-44.54	-5.71	Peak
6	814.50	-47.15	-49.36	-13.00	-34.15	2.21	Peak
7	1673.00	-61.54	-48.72	-13.00	-48.54	-12.82	Peak



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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(QPSK 50,0)
 Tested by : Kay Wu
 Temperature : 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 pp	33.51	-41.53	-39.69	-13.00	-28.53	-1.84	Peak
2	173.37	-48.21	-41.44	-13.00	-35.21	-6.77	Peak
3	235.47	-48.46	-42.13	-13.00	-35.46	-6.33	Peak
4	300.00	-54.62	-48.24	-13.00	-41.62	-6.38	Peak
5	402.90	-59.62	-54.05	-13.00	-46.62	-5.57	Peak
6	815.20	-47.72	-49.93	-13.00	-34.72	2.21	Peak
7	1673.00	-62.30	-49.48	-13.00	-49.30	-12.82	Peak

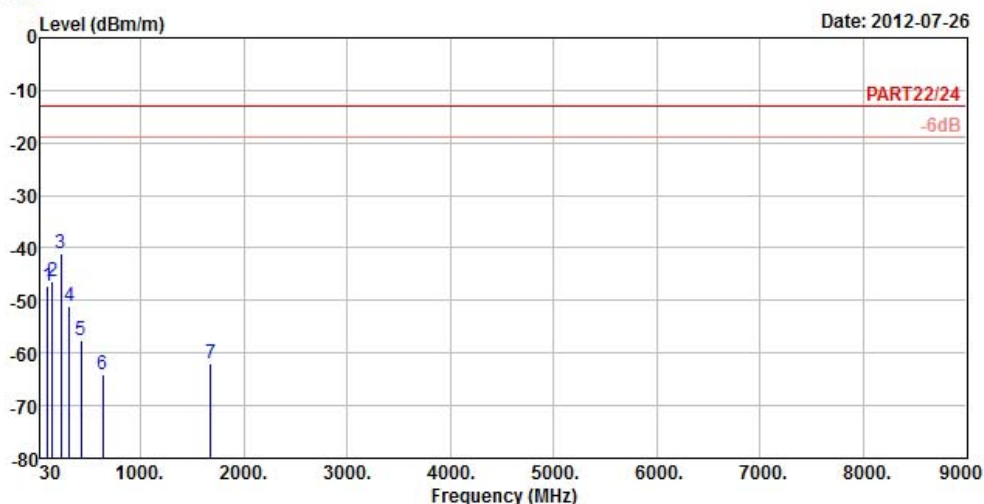
CHANNEL BANDWIDTH: 10MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(16QAM 1,49)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

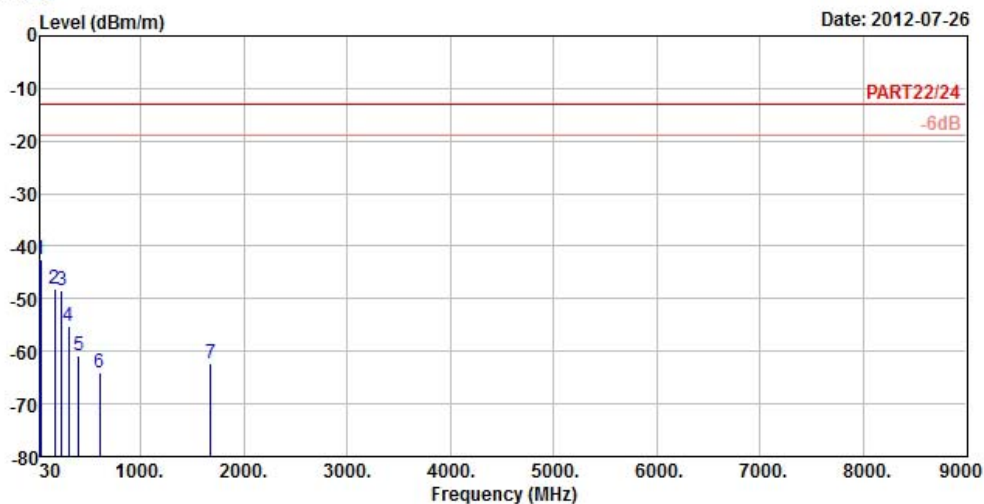
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	97.77	-47.33	-36.89	-13.00	-34.33	-10.44	Peak
2	144.75	-46.29	-40.31	-13.00	-33.29	-5.98	Peak
3 pp	228.45	-41.04	-34.40	-13.00	-28.04	-6.64	Peak
4	311.20	-51.15	-44.86	-13.00	-38.15	-6.29	Peak
5	426.00	-57.61	-52.63	-13.00	-44.61	-4.98	Peak
6	636.70	-64.04	-64.34	-13.00	-51.04	0.30	Peak
7	1681.80	-61.93	-49.19	-13.00	-48.93	-12.74	Peak



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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(16QAM 1,49)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

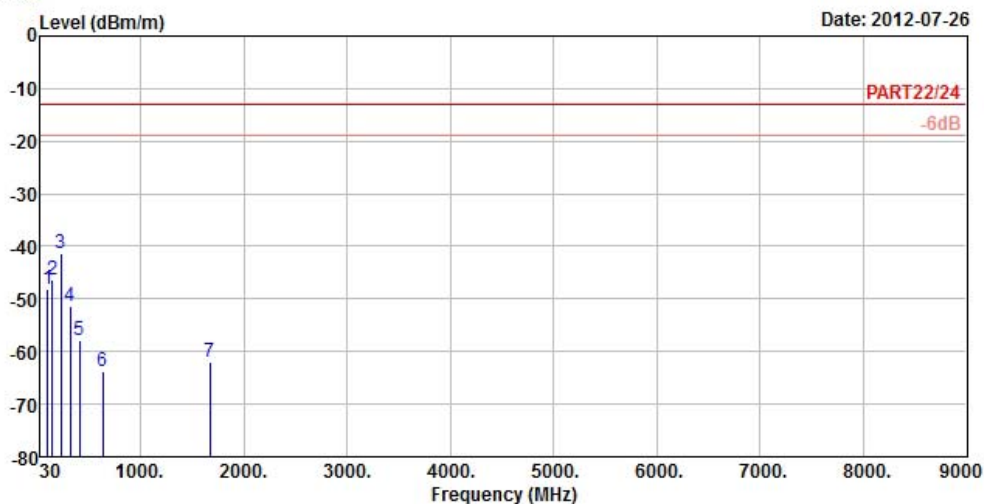
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	32.97	-42.41	-41.30	-13.00	-29.41	-1.11	Peak
2	167.70	-48.22	-41.56	-13.00	-35.22	-6.66	Peak
3	236.28	-48.32	-42.03	-13.00	-35.32	-6.29	Peak
4	300.00	-55.13	-48.75	-13.00	-42.13	-6.38	Peak
5	400.10	-60.94	-55.32	-13.00	-47.94	-5.62	Peak
6	601.00	-63.95	-63.62	-13.00	-50.95	-0.33	Peak
7	1681.80	-62.20	-49.46	-13.00	-49.20	-12.74	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(16QAM 50,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

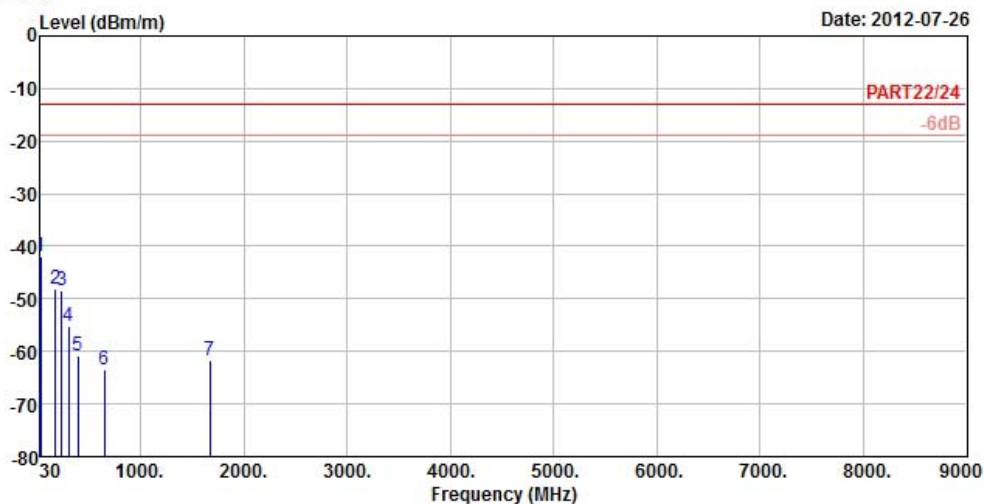
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	97.23	-48.16	-37.71	-13.00	-35.16	-10.45	Peak
2	144.48	-46.34	-40.36	-13.00	-33.34	-5.98	Peak
3 pp	228.99	-41.40	-34.76	-13.00	-28.40	-6.64	Peak
4	315.40	-51.43	-45.16	-13.00	-38.43	-6.27	Peak
5	410.60	-57.97	-52.60	-13.00	-44.97	-5.37	Peak
6	634.60	-63.80	-64.06	-13.00	-50.80	0.26	Peak
7	1673.00	-61.93	-49.11	-13.00	-48.93	-12.82	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 10



Site : 966 Chamber 5
 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL
 Brand/Model: PM36100
 Remark : LTE Band 5_10M_(16QAM 50,0)
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	33.24	-41.79	-40.68	-13.00	-28.79	-1.11	Peak
2	173.37	-48.25	-41.48	-13.00	-35.25	-6.77	Peak
3	235.20	-48.52	-42.19	-13.00	-35.52	-6.33	Peak
4	300.70	-55.20	-48.83	-13.00	-42.20	-6.37	Peak
5	395.90	-60.84	-55.17	-13.00	-47.84	-5.67	Peak
6	649.30	-63.44	-63.96	-13.00	-50.44	0.52	Peak
7	1673.00	-61.81	-48.99	-13.00	-48.81	-12.82	Peak



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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:

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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.



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

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

---END---