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FCC TEST REPORT

(PART 24)

REPORT NO.: RF130412C14-1

MODEL NO.: K009

FCC ID: MSQK009

RECEIVED: Apr. 12, 2013

TESTED: May 04, 2013 ~ May 15, 2013

ISSUED: May 27, 2013

APPLICANT: ASUSTek COMPUTER INC.

ADDRESS: 4F., No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

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

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New
Taipei City, Taiwan (R.O.C.)

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130412C14-1	Original release	May 27, 2013



1 CERTIFICATION

PRODUCT: ASUS Pad

MODEL: K009

BRAND: ASUS

APPLICANT: ASUSTek COMPUTER INC.

TESTED: May 04, 2013 ~ May 15, 2013

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: K009) 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 : Vera Huang , **DATE :** May 27, 2013

Vera Huang / Specialist

APPROVED BY : Sam Chen , **DATE :** May 27, 2013

Sam Chen / Assistant Manager



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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	RESULT	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.
24.232(d)	Peak to average ratio	PASS	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -29.62dB at 5640.00MHz.

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
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.



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2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUe DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Aug. 21, 2012	Aug. 20, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 07, 2013	Jan. 06, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 25, 2012	Dec. 24, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 184045	980116	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable Worken	RG-213	NA	Dec. 29, 2012	Dec. 28, 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

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



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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	ASUS Pad	
MODEL NO.	K009	
POWER SUPPLY	5.2Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TYPE	GPRS	GMSK
	EDGE	8PSK
	WCDMA	BPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	GPRS/EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE (Channel Bandwidth: 1.4MHz)	1850.7MHz ~ 1909.3MHz
	LTE (Channel Bandwidth: 3MHz)	1851.5MHz ~ 1908.5MHz
	LTE (Channel Bandwidth: 5MHz)	1852.5MHz ~ 1907.5MHz
	LTE (Channel Bandwidth: 10MHz)	1855MHz ~ 1905MHz
	LTE (Channel Bandwidth: 15MHz)	1857.5MHz ~ 1902.5MHz
MAX. EIRP POWER	LTE (Channel Bandwidth: 20MHz)	1860MHz ~ 1900MHz
	GPRS	1086.43mW
	EDGE	1042.32mW
	WCDMA	252.35mW
	LTE (Channel Bandwidth: 1.4MHz)	311.89mW
	LTE (Channel Bandwidth: 3MHz)	311.17mW
	LTE (Channel Bandwidth: 5MHz)	310.46mW
	LTE (Channel Bandwidth: 10MHz)	297.85mW
	LTE (Channel Bandwidth: 15MHz)	309.74mW
EMISSION DESIGNATOR	LTE (Channel Bandwidth: 20MHz)	314.77mW
	GPRS	246KGXW
	EDGE	245KG7W
	WCDMA	4M18F9W
	LTE (Channel Bandwidth: 1.4MHz)	1M08G7D
	LTE (Channel Bandwidth: 3MHz)	2M73G7D
	LTE (Channel Bandwidth: 5MHz)	4M49G7D
	LTE (Channel Bandwidth: 10MHz)	8M93G7D
	LTE (Channel Bandwidth: 15MHz)	13M4G7D
	LTE (Channel Bandwidth: 20MHz)	17M8W7D



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MULTI-SLOTS CLASS	10
WCDMA RELEASE VERSION	8
LTE CATEGORY	3
ANTENNA TYPE	Fixed Internal Antenna
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 has following accessories.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter 1	ASUS	PSM06A-050Q	I/P: 100-240Vac, 50-60Hz, 0.25A O/P: 5.2Vdc, 1.35A
AC Adapter 2	ASUS	PA-1070-07	I/P: 100-240Vac, 50-60Hz, 0.25A O/P: 5.2Vdc, 1.35A
Li-ion Battery	ASUS	C11P1303	Rating: 3.8Vdc, 15Wh
USB cable	ASUS	AA78030	0.9m non-shielded cable w/o ferrite core
LCD Panel	JDI	LT070ME05000	--
Video Camera (Front)	Liteon	12P2SF181	1.2M
Video Camera (Rear)	Chicony	CJAC53220003870LH	5M
WWAN Module	Qualcomm	WTR1605L	--
WLAN Module	Qualcomm	WCN3660	--
CPU	Qualcomm	APQ-8064	1067 NSP (1067 Pin)
eMMC	Hyinix	FLASH HYNIX H26M64003DQR 32GB	32G
Mainboard	ASUS	ME571KL MAIN BOARD	--

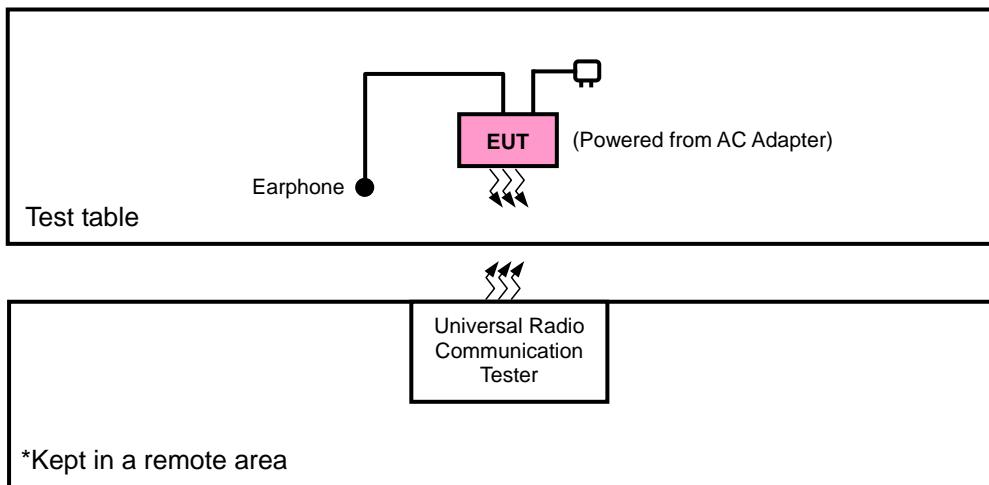
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



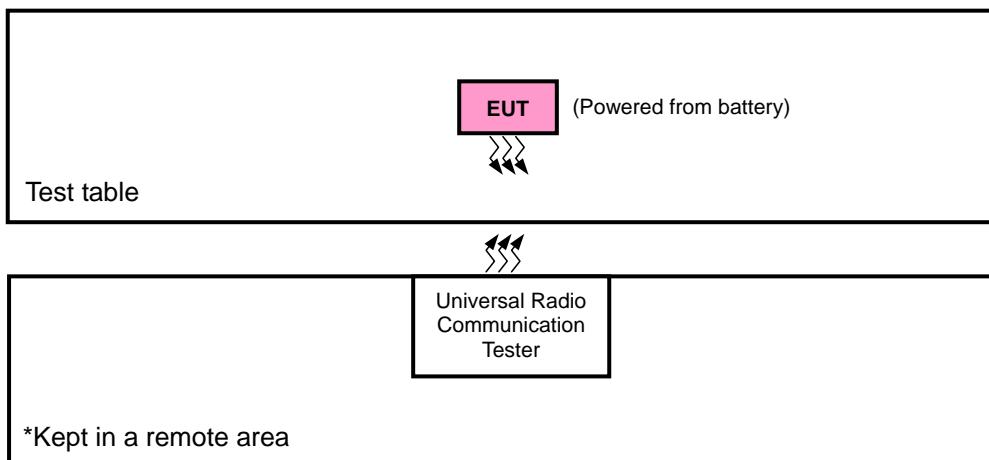
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3.2 CONFIGURATION OF SYSTEM UNDER TEST

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	Acon	CW-010M.V	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

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



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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 as listed below for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

	BAND	AXIS FOR RADIATED EMISSION
EIRP	GPRS / EDGE / WCDMA	Y
	LTE	Z
RADIATED EMISSION	GPRS / EDGE / WCDMA	X
	LTE	Z

GSM MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
EIRP	512 to 810	512, 661, 810	GPRS, EDGE
FREQUENCY STABILITY	512 to 810	661	GPRS, EDGE
OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GPRS, EDGE
PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GPRS, EDGE
BAND EDGE	512 to 810	512, 810	GPRS, EDGE
CONDUCDETED EMISSION	512 to 810	661	GPRS, EDGE
RADIATED EMISSION	512 to 810	661	GPRS, 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
PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
BAND EDGE	9262 to 9538	9262, 9538	WCDMA
CONDUCDETED EMISSION	9262 to 9538	9400	WCDMA
RADIATED EMISSION	9262 to 9538	9400	WCDMA



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LTE BAND 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB / 2 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 7 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB / 37 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 50 RB Offset
FREQUENCY STABILITY	18607 to 19193	18900	1.4MHz	QPSK	1 RB / 2 RB Offset
	18615 to 19185	18900	3MHz	QPSK	1 RB / 7 RB Offset
	18625 to 19175	18900	5MHz	QPSK	1 RB / 12 RB Offset
	18650 to 19150	18900	10MHz	QPSK	1 RB / 24 RB Offset
	18675 to 19125	18900	15MHz	QPSK	1 RB / 37 RB Offset
	18700 to 19100	18900	20MHz	QPSK	1 RB / 50 RB Offset
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB / 2 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 7 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB / 37 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset
BAND EDGE	18607 to 19193	18607	1.4MHz	QPSK	1 RB / 0 RB Offset
		19193	1.4MHz		6 RB / 0 RB Offset
	18615 to 19185	18615	3MHz	QPSK	1 RB / 5 RB Offset
		19185	3MHz		6 RB / 0 RB Offset
	18625 to 19175	18625	5MHz	QPSK	1 RB / 0 RB Offset
		19175	5MHz		25 RB / 0 RB Offset
	18650 to 19150	18650	10MHz	QPSK	1 RB / 24 RB Offset
		19150	10MHz		25 RB / 0 RB Offset
					1 RB / 0 RB Offset
					50 RB / 0 RB Offset
					1 RB / 49 RB Offset
					50 RB / 0 RB Offset



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TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
BAND EDGE	18675 to 19125	18675	15MHz	QPSK	1 RB / 0 RB Offset
		19125	15MHz	QPSK	75 RB / 0 RB Offset
	18700 to 19100	18700	20MHz	QPSK	1 RB / 74 RB Offset
		19100	20MHz	QPSK	75 RB / 0 RB Offset
	18607 to 19193 18615 to 19185 18625 to 19175 18650 to 19150	18900	1.4MHz	QPSK	1 RB / 0 RB Offset
		18900	3MHz	QPSK	100 RB / 0 RB Offset
		18900	5MHz	QPSK	1 RB / 12 RB Offset
		18900	10MHz	QPSK	1 RB / 24 RB Offset
CONDUCTED EMISSION	18675 to 19125	18900	15MHz	QPSK	1 RB / 37 RB Offset
	18700 to 19100	18900	20MHz	QPSK	1 RB / 99 RB Offset
	18607 to 19193	18900	1.4MHz	QPSK	1 RB / 2 RB Offset
	18615 to 19185	18900	3MHz	QPSK	1 RB / 7 RB Offset
	18625 to 19175	18900	5MHz	QPSK	1 RB / 12 RB Offset
	18650 to 19150	18900	10MHz	QPSK	1 RB / 24 RB Offset
RADIATED EMISSION	18675 to 19125	18900	15MHz	QPSK	1 RB / 37 RB Offset
	18700 to 19100	18900	20MHz	QPSK	1 RB / 50 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case were found in QPSK modulation.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 59%RH	3.8Vdc	Howard Kao
FREQUENCY STABILITY	25deg. C, 59%RH	3.8Vdc	Howard Kao
OCCUPIED BANDWIDTH	25deg. C, 59%RH	3.8Vdc	Howard Kao
BAND EDGE	25deg. C, 59%RH	3.8Vdc	Howard Kao
CONDUCTED EMISSION	25deg. C, 59%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao



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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 24

ANSI/TIA/EIA-603-C 2004

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



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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 / ERP MEASUREMENT:

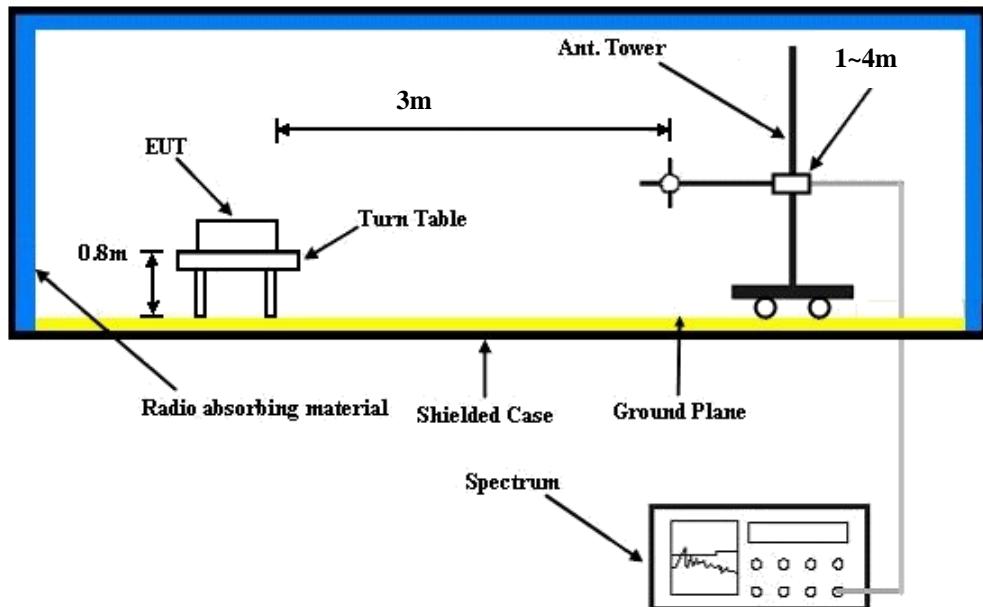
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA and CDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA & CDMA 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.

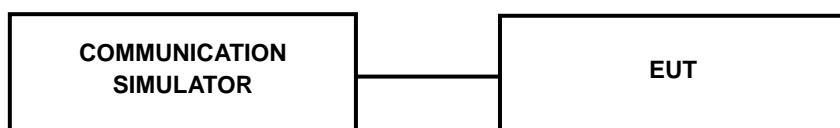
4.1.3 TEST SETUP

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).



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4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS 8 (GMSK, 1 slot)	29.84	29.68	29.88
GPRS 10 (GMSK, 2 slot)	29.70	29.54	29.74
EDGE 8 (GMSK, 1 Uplink)	29.73	29.57	29.77
EDGE 10 (GMSK, 2 Uplink)	29.64	29.48	29.68
EDGE 8 (8PSK, 1 Uplink)	25.61	25.45	25.65
EDGE 10 (8PSK, 2 Uplink)	25.49	25.33	25.53

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.19	23.24	23.03
HSDPA Subtest-1	22.30	22.35	22.14
HSDPA Subtest-2	22.25	22.30	22.09
HSDPA Subtest-3	22.04	22.09	21.88
HSDPA Subtest-4	21.87	21.92	21.71
HSUPA Subtest-1	22.10	22.15	21.94
HSUPA Subtest-2	20.89	20.94	20.73
HSUPA Subtest-3	20.76	20.81	20.60
HSUPA Subtest-4	21.68	21.73	21.52
HSUPA Subtest-5	22.29	22.34	22.13



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LTE Band 2								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
1.4 MHz	QPSK	18607	1850.7	1	0	0	23.6	23.19
		18900	1880	1	0	0	23.6	23.29
		19193	1909.3	1	0	0	23.6	22.95
		18607	1850.7	1	2	0	23.6	23.16
		18900	1880	1	2	0	23.6	23.06
		19193	1909.3	1	2	0	23.6	23.4
		18607	1850.7	1	5	0	23.6	23.07
		18900	1880	1	5	0	23.6	22.97
		19193	1909.3	1	5	0	23.6	23.31
		18607	1850.7	3	0	0	23.6	22.62
		18900	1880	3	0	0	23.6	22.64
		19193	1909.3	3	0	0	23.6	22.86
		18607	1850.7	3	1	0	23.6	22.72
		18900	1880	3	1	0	23.6	22.62
		19193	1909.3	3	1	0	23.6	22.96
	16QAM	18607	1850.7	3	3	0	23.6	22.63
		18900	1880	3	3	0	23.6	22.65
		19193	1909.3	3	3	0	23.6	22.84
		18607	1850.7	6	0	1	23.6	22.69
		18900	1880	6	0	1	23.6	21.87
		19193	1909.3	6	0	1	23.6	22.21
		18607	1850.7	1	0	1	23.6	22.92
		18900	1880	1	0	1	23.6	23.02
		19193	1909.3	1	0	1	23.6	22.68
		18607	1850.7	1	2	1	23.6	22.89
		18900	1880	1	2	1	23.6	22.79
		19193	1909.3	1	2	1	23.6	23.13
		18607	1850.7	1	5	1	23.6	22.8
		18900	1880	1	5	1	23.6	22.7
		19193	1909.3	1	5	1	23.6	23.04
		18607	1850.7	3	0	1	23.6	21.63
		18900	1880	3	0	1	23.6	21.65
		19193	1909.3	3	0	1	23.6	21.87
		18607	1850.7	3	1	1	23.6	21.73
		18900	1880	3	1	1	23.6	21.63
		19193	1909.3	3	1	1	23.6	21.97
		18607	1850.7	3	3	1	23.6	21.61
		18900	1880	3	3	1	23.6	21.61
		19193	1909.3	3	3	1	23.6	21.85
		18607	1850.7	6	0	2	23.6	21.7
		18900	1880	6	0	2	23.6	21.6
		19193	1909.3	6	0	2	23.6	21.94



A D T

LTE Band 2								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	
			(MHz)				Power	
3MHz	QPSK	18615	1851.5	1	0	0	23.6	23.01
		18900	1880	1	0	0	23.6	23.11
		19185	1908.5	1	0	0	23.6	22.77
		18615	1851.5	1	7	0	23.6	22.98
		18900	1880	1	7	0	23.6	22.88
		19185	1908.5	1	7	0	23.6	23.22
		18615	1851.5	1	14	0	23.6	22.89
		18900	1880	1	14	0	23.6	22.79
		19185	1908.5	1	14	0	23.6	23.13
		18615	1851.5	8	0	1	23.6	21.72
		18900	1880	8	0	1	23.6	21.62
		19185	1908.5	8	0	1	23.6	21.96
		18615	1851.5	8	3	1	23.6	21.82
		18900	1880	8	3	1	23.6	21.72
		19185	1908.5	8	3	1	23.6	22.06
	16QAM	18615	1851.5	8	7	1	23.6	21.7
		18900	1880	8	7	1	23.6	21.63
		19185	1908.5	8	7	1	23.6	21.94
		18615	1851.5	15	0	1	23.6	21.79
		18900	1880	15	0	1	23.6	21.69
		19185	1908.5	15	0	1	23.6	22.03
		18615	1851.5	1	0	1	23.6	22.73
		18900	1880	1	0	1	23.6	22.83
		19185	1908.5	1	0	1	23.6	22.49
		18615	1851.5	1	7	1	23.6	22.7
		18900	1880	1	7	1	23.6	22.6
		19185	1908.5	1	7	1	23.6	22.94
		18615	1851.5	1	14	1	23.6	22.61
		18900	1880	1	14	1	23.6	22.51
		19185	1908.5	1	14	1	23.6	22.85
		18615	1851.5	8	0	2	23.6	21.44
		18900	1880	8	0	2	23.6	21.34
		19185	1908.5	8	0	2	23.6	21.68
		18615	1851.5	8	3	2	23.6	21.54
		18900	1880	8	3	2	23.6	21.44
		19185	1908.5	8	3	2	23.6	21.78
		18615	1851.5	8	7	2	23.6	21.42
		18900	1880	8	7	2	23.6	21.32
		19185	1908.5	8	7	2	23.6	21.66
		18615	1851.5	15	0	2	23.6	21.51
		18900	1880	15	0	2	23.6	21.41
		19185	1908.5	15	0	2	23.6	21.75



A D T

LTE Band 2								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
5 MHz	QPSK	18625	1852.5	1	0	0	23.6	23.11
		18900	1880	1	0	0	23.6	23.21
		19175	1907.5	1	0	0	23.6	22.87
		18625	1852.5	1	12	0	23.6	23.08
		18900	1880	1	12	0	23.6	22.98
		19175	1907.5	1	12	0	23.6	23.32
		18625	1852.5	1	24	0	23.6	22.99
		18900	1880	1	24	0	23.6	22.89
		19175	1907.5	1	24	0	23.6	23.23
		18625	1852.5	12	0	1	23.6	21.82
		18900	1880	12	0	1	23.6	21.72
		19175	1907.5	12	0	1	23.6	22.06
		18625	1852.5	12	6	1	23.6	21.92
		18900	1880	12	6	1	23.6	21.82
		19175	1907.5	12	6	1	23.6	22.16
		18625	1852.5	12	13	1	23.6	21.8
		18900	1880	12	13	1	23.6	21.7
		19175	1907.5	12	13	1	23.6	22.04
		18625	1852.5	25	0	1	23.6	21.89
		18900	1880	25	0	1	23.6	21.79
		19175	1907.5	25	0	1	23.6	22.13
	16QAM	18625	1852.5	1	0	1	23.6	22.87
		18900	1880	1	0	1	23.6	22.97
		19175	1907.5	1	0	1	23.6	22.63
		18625	1852.5	1	12	1	23.6	22.84
		18900	1880	1	12	1	23.6	22.74
		19175	1907.5	1	12	1	23.6	23.08
		18625	1852.5	1	24	1	23.6	22.75
		18900	1880	1	24	1	23.6	22.65
		19175	1907.5	1	24	1	23.6	22.99
		18625	1852.5	12	0	2	23.6	21.58
		18900	1880	12	0	2	23.6	21.48
		19175	1907.5	12	0	2	23.6	21.82
		18625	1852.5	12	6	2	23.6	21.68
		18900	1880	12	6	2	23.6	21.58
		19175	1907.5	12	6	2	23.6	21.92
		18625	1852.5	12	13	2	23.6	21.56
		18900	1880	12	13	2	23.6	21.46
		19175	1907.5	12	13	2	23.6	21.8
		18625	1852.5	25	0	2	23.6	21.65
		18900	1880	25	0	2	23.6	21.55
		19175	1907.5	25	0	2	23.6	21.89



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LTE Band 2								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
10MHz	QPSK	18650	1855	1	0	0	23.6	22.89
		18900	1880	1	0	0	23.6	22.99
		19150	1905	1	0	0	23.6	22.65
		18650	1855	1	24	0	23.6	22.86
		18900	1880	1	24	0	23.6	22.76
		19150	1905	1	24	0	23.6	23.1
		18650	1855	1	49	0	23.6	22.77
		18900	1880	1	49	0	23.6	22.67
		19150	1905	1	49	0	23.6	23.01
		18650	1855	25	0	1	23.6	21.66
		18900	1880	25	0	1	23.6	21.68
		19150	1905	25	0	1	23.6	21.84
		18650	1855	25	12	1	23.6	21.7
		18900	1880	25	12	1	23.6	21.61
		19150	1905	25	12	1	23.6	21.94
		18650	1855	25	25	1	23.6	21.62
		18900	1880	25	25	1	23.6	21.67
		19150	1905	25	25	1	23.6	21.82
		18650	1855	50	0	1	23.6	21.67
		18900	1880	50	0	1	23.6	21.65
		19150	1905	50	0	1	23.6	21.91
	16QAM	18650	1855	1	0	1	23.6	22.71
		18900	1880	1	0	1	23.6	22.81
		19150	1905	1	0	1	23.6	22.47
		18650	1855	1	24	1	23.6	22.68
		18900	1880	1	24	1	23.6	22.58
		19150	1905	1	24	1	23.6	22.92
		18650	1855	1	49	1	23.6	22.59
		18900	1880	1	49	1	23.6	22.49
		19150	1905	1	49	1	23.6	22.83
		18650	1855	25	0	2	23.6	21.42
		18900	1880	25	0	2	23.6	21.32
		19150	1905	25	0	2	23.6	21.66
		18650	1855	25	12	2	23.6	21.52
		18900	1880	25	12	2	23.6	21.42
		19150	1905	25	12	2	23.6	21.76
		18650	1855	25	25	2	23.6	21.4
		18900	1880	25	25	2	23.6	21.3
		19150	1905	25	25	2	23.6	21.64
		18650	1855	50	0	2	23.6	21.49
		18900	1880	50	0	2	23.6	21.39
		19150	1905	50	0	2	23.6	21.73



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LTE Band 2								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
15 MHz	QPSK	18675	1857.5	1	0	0	23.6	23.05
		18900	1880	1	0	0	23.6	23.15
		19125	1902.5	1	0	0	23.6	22.81
		18675	1857.5	1	37	0	23.6	23.02
		18900	1880	1	37	0	23.6	22.92
		19125	1902.5	1	37	0	23.6	23.26
		18675	1857.5	1	74	0	23.6	22.93
		18900	1880	1	74	0	23.6	22.83
		19125	1902.5	1	74	0	23.6	23.17
		18675	1857.5	36	0	1	23.6	21.76
		18900	1880	36	0	1	23.6	21.66
		19125	1902.5	36	0	1	23.6	22
		18675	1857.5	36	19	1	23.6	21.86
		18900	1880	36	19	1	23.6	21.76
		19125	1902.5	36	19	1	23.6	22.1
		18675	1857.5	36	39	1	23.6	21.74
		18900	1880	36	39	1	23.6	21.64
		19125	1902.5	36	39	1	23.6	21.98
		18675	1857.5	75	0	1	23.6	21.83
		18900	1880	75	0	1	23.6	21.73
		19125	1902.5	75	0	1	23.6	22.07
15 MHz	16QAM	18675	1857.5	1	0	1	23.6	22.8
		18900	1880	1	0	1	23.6	22.9
		19125	1902.5	1	0	1	23.6	22.56
		18675	1857.5	1	37	1	23.6	22.77
		18900	1880	1	37	1	23.6	22.67
		19125	1902.5	1	37	1	23.6	23.01
		18675	1857.5	1	74	1	23.6	22.68
		18900	1880	1	74	1	23.6	22.58
		19125	1902.5	1	74	1	23.6	22.92
		18675	1857.5	36	0	2	23.6	21.51
		18900	1880	36	0	2	23.6	21.41
		19125	1902.5	36	0	2	23.6	21.75
		18675	1857.5	36	19	2	23.6	21.61
		18900	1880	36	19	2	23.6	21.51
		19125	1902.5	36	19	2	23.6	21.85
		18675	1857.5	36	39	2	23.6	21.49
		18900	1880	36	39	2	23.6	21.39
		19125	1902.5	36	39	2	23.6	21.73
		18675	1857.5	75	0	2	23.6	21.58
		18900	1880	75	0	2	23.6	21.48
		19125	1902.5	75	0	2	23.6	21.82



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LTE Band 2								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
20MHz	QPSK	18700	1860	1	0	0	23.6	23.36
		18900	1880	1	0	0	23.6	23.46
		19100	1900	1	0	0	23.6	23.12
		18700	1860	1	50	0	23.6	23.33
		18900	1880	1	50	0	23.6	23.23
		19100	1900	1	50	0	23.6	23.57
		18700	1860	1	99	0	23.6	23.24
		18900	1880	1	99	0	23.6	23.14
		19100	1900	1	99	0	23.6	23.48
		18700	1860	50	0	1	23.6	22.07
		18900	1880	50	0	1	23.6	21.97
		19100	1900	50	0	1	23.6	22.31
		18700	1860	50	25	1	23.6	22.17
		18900	1880	50	25	1	23.6	22.07
		19100	1900	50	25	1	23.6	22.41
	16QAM	18700	1860	50	50	1	23.6	22.05
		18900	1880	50	50	1	23.6	21.95
		19100	1900	50	50	1	23.6	22.29
		18700	1860	100	0	1	23.6	22.14
		18900	1880	100	0	1	23.6	22.04
		19100	1900	100	0	1	23.6	22.38
		18700	1860	1	0	1	23.6	22.88
		18900	1880	1	0	1	23.6	22.98
		19100	1900	1	0	1	23.6	22.64
		18700	1860	1	50	1	23.6	22.85
		18900	1880	1	50	1	23.6	22.75
		19100	1900	1	50	1	23.6	23.09
		18700	1860	1	99	1	23.6	22.76
		18900	1880	1	99	1	23.6	22.66
		19100	1900	1	99	1	23.6	23
		18700	1860	50	0	2	23.6	21.59
		18900	1880	50	0	2	23.6	21.49
		19100	1900	50	0	2	23.6	21.83
		18700	1860	50	25	2	23.6	21.69
		18900	1880	50	25	2	23.6	21.59
		19100	1900	50	25	2	23.6	21.93
		18700	1860	50	50	2	23.6	21.57
		18900	1880	50	50	2	23.6	21.47
		19100	1900	50	50	2	23.6	21.81
		18700	1860	100	0	2	23.6	21.66
		18900	1880	100	0	2	23.6	21.56
		19100	1900	100	0	2	23.6	21.9



A D T

EIRP POWER (dBm)

GSM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Y	512	1850.2	-12.08	38.19	26.11	408.32	H
	661	1880.0	-12.71	38.70	25.99	397.19	H
	810	1909.8	-12.55	38.43	25.88	387.26	H
	512	1850.2	-8.63	38.48	29.85	966.05	V
	661	1880.0	-8.29	38.59	30.30	1071.52	V
	810	1909.8	-8.51	38.87	30.36	1086.43	V

EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Y	512	1850.2	-12.56	38.19	25.63	365.59	H
	661	1880.0	-12.82	38.70	25.88	387.26	H
	810	1909.8	-12.78	38.43	25.65	367.28	H
	512	1850.2	-8.34	38.48	30.14	1032.76	V
	661	1880.0	-8.85	38.59	29.74	941.89	V
	810	1909.8	-8.69	38.87	30.18	1042.32	V

WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Y	9262	1852.4	-18.74	38.19	19.45	88.10	H
	9400	1880.0	-18.87	38.70	19.83	96.16	H
	9538	1907.6	-19.36	38.43	19.07	80.72	H
	9262	1852.4	-14.91	38.48	23.57	227.51	V
	9400	1880.0	-14.57	38.59	24.02	252.35	V
	9538	1907.6	-15.69	38.87	23.18	207.97	V



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LTE BAND 2**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18607	1850.7	-13.64	38.19	24.55	285.10	H
	18900	1880	-14.07	38.70	24.63	290.40	H
	19193	1909.3	-15.01	39.35	24.34	271.64	H
	18607	1850.7	-19.12	38.48	19.36	86.30	V
	18900	1880	-18.87	38.59	19.72	93.76	V
	19193	1909.3	-18.96	38.87	19.91	97.95	V

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18607	1850.7	-13.94	38.19	24.25	266.07	H
	18900	1880	-13.76	38.70	24.94	311.89	H
	19193	1909.3	-14.78	39.35	24.57	286.42	H
	18607	1850.7	-18.85	38.48	19.63	91.83	V
	18900	1880	-19.37	38.59	19.22	83.56	V
	19193	1909.3	-19.74	38.87	19.13	81.85	V



A D T

CHANNEL BANDWIDTH: 3MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18615	1851.5	-13.38	38.19	24.81	302.69	H
	18900	1880	-14.11	38.70	24.59	287.74	H
	19185	1908.5	-14.76	39.35	24.59	287.74	H
	18615	1851.5	-19.00	38.48	19.48	88.72	V
	18900	1880	-18.90	38.59	19.69	93.11	V
	19185	1908.5	-19.63	38.87	19.24	83.95	V

CHANNEL BANDWIDTH: 3MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18615	1851.5	-13.97	38.19	24.22	264.24	H
	18900	1880	-13.80	38.70	24.90	309.03	H
	19185	1908.5	-14.42	39.35	24.93	311.17	H
	18615	1851.5	-18.83	38.48	19.65	92.26	V
	18900	1880	-19.50	38.59	19.09	81.10	V
	19185	1908.5	-19.26	38.87	19.61	91.41	V



A D T

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18625	1852.5	-14.07	38.19	24.12	258.23	H
	18900	1880	-13.97	38.70	24.73	297.17	H
	19175	1907.5	-14.43	39.35	24.92	310.46	H
	18625	1852.5	-19.16	38.48	19.32	85.51	V
	18900	1880	-18.86	38.59	19.73	93.97	V
	19175	1907.5	-19.77	38.87	19.10	81.28	V

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18625	1852.5	-13.74	38.19	24.45	278.61	H
	18900	1880	-14.69	38.70	24.01	251.77	H
	19175	1907.5	-15.18	39.35	24.17	261.22	H
	18625	1852.5	-18.73	38.48	19.75	94.41	V
	18900	1880	-19.53	38.59	19.06	80.54	V
	19175	1907.5	-19.31	38.87	19.56	90.36	V



A D T

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855	-13.78	38.19	24.41	276.06	H
	18900	1880	-14.06	38.70	24.64	291.07	H
	19150	1905	-15.02	39.35	24.33	271.02	H
	18650	1855	-19.08	38.48	19.40	87.10	V
	18900	1880	-19.30	38.59	19.29	84.92	V
	19150	1905	-19.62	38.87	19.25	84.14	V

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855	-13.45	38.19	24.74	297.85	H
	18900	1880	-14.62	38.70	24.08	255.86	H
	19150	1905	-14.73	39.35	24.62	289.73	H
	18650	1855	-19.22	38.48	19.26	84.33	V
	18900	1880	-18.65	38.59	19.94	98.63	V
	19150	1905	-18.95	38.87	19.92	98.17	V



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CHANNEL BANDWIDTH: 15MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18675	1857.5	-13.65	38.19	24.54	284.45	H
	18900	1880	-13.98	38.70	24.72	296.48	H
	19125	1902.5	-14.80	39.35	24.55	285.10	H
	18675	1857.5	-18.92	38.48	19.56	90.36	V
	18900	1880	-19.13	38.59	19.46	88.31	V
	19125	1902.5	-19.58	38.87	19.29	84.92	V

CHANNEL BANDWIDTH: 15MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18675	1857.5	-13.28	38.19	24.91	309.74	H
	18900	1880	-14.68	38.70	24.02	252.35	H
	19125	1902.5	-14.52	39.35	24.83	304.09	H
	18675	1857.5	-19.09	38.48	19.39	86.90	V
	18900	1880	-19.24	38.59	19.35	86.10	V
	19125	1902.5	-19.54	38.87	19.33	85.70	V



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CHANNEL BANDWIDTH: 20MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860	-13.59	38.19	24.60	288.40	H
	18900	1880	-13.88	38.70	24.82	303.39	H
	19100	1900	-14.91	39.35	24.44	277.97	H
	18700	1860	-18.75	38.48	19.73	93.97	V
	18900	1880	-19.00	38.59	19.59	90.99	V
	19100	1900	-19.63	38.87	19.24	83.95	V

CHANNEL BANDWIDTH: 20MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860	-13.27	38.19	24.92	310.46	H
	18900	1880	-13.72	38.70	24.98	314.77	H
	19100	1900	-14.65	39.35	24.70	295.12	H
	18700	1860	-19.12	38.48	19.36	86.30	V
	18900	1880	-19.18	38.59	19.41	87.30	V
	19100	1900	-19.72	38.87	19.15	82.22	V

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

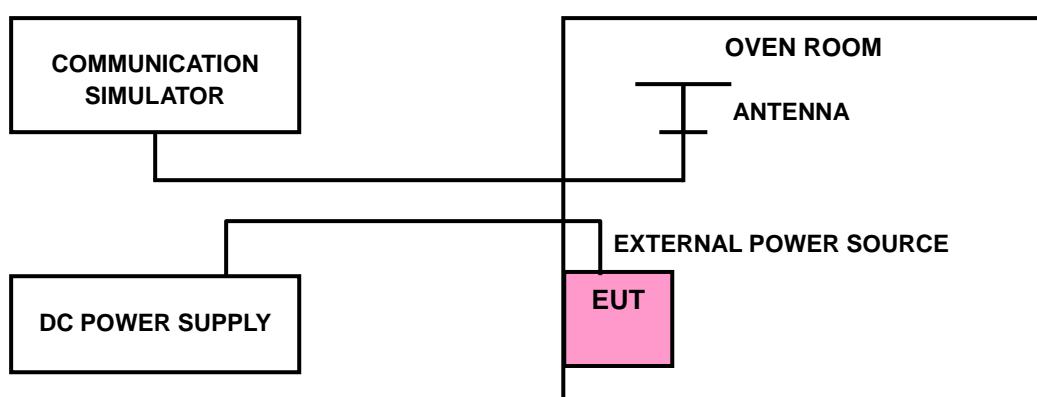
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 $\pm 0.5^{\circ}\text{C}$ 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





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4.2.4 TEST RESULTS

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)								LIMIT (ppm)	
	GPRS	EDGE	WCDMA	LTE Band 2						
				1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
3.8	-0.02	0.005	-0.004	0.006	0.002	-0.01	-0.01	-0.003	-0.01	2.5
3.6	-0.02	0.003	-0.004	-0.003	-0.003	-0.01	-0.01	-0.009	-0.02	2.5
4.35	-0.02	0.004	-0.005	-0.005	-0.002	-0.02	-0.01	-0.022	-0.02	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.35Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	FREQUENCY ERROR (ppm)								LIMIT (ppm)	
	GPRS	EDGE	WCDMA	LTE Band 2						
				1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
-30	-	-	-	-	-	-	-	-	-	2.5
-20	-	-	-	-	-	-	-	-	-	2.5
-10	-0.02	0.01	-0.005	-0.026	-0.007	0.002	-0.005	0.003	-0.011	2.5
0	-0.02	0.01	-0.004	0.002	-0.014	-0.006	-0.006	-0.007	-0.022	2.5
10	-0.02	0.01	-0.005	-0.001	-0.004	-0.005	-0.008	-0.003	-0.022	2.5
20	-0.02	0.01	-0.005	-0.012	0.007	-0.011	-0.014	-0.014	0.004	2.5
30	-0.03	0.01	-0.004	0.008	0.002	-0.014	-0.013	0.008	-0.017	2.5
40	-0.02	0.01	-0.005	0.001	-0.019	0.004	0.005	-0.021	-0.024	2.5
50	-0.02	0.00	-0.004	-0.009	-0.020	-0.006	-0.004	-0.019	-0.009	2.5
55	-0.02	0.01	-0.004	-0.007	0.006	-0.002	-0.005	-0.008	0.006	2.5

NOTE:

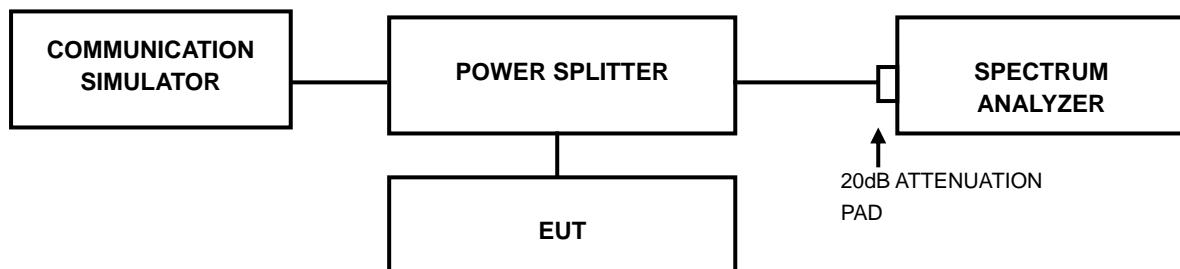
1. The applicant defined the normal operating temperature of the EUT is from -10°C to 55°C.
2. The EUT would shut down automatically when exceed -10 degree C range.

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

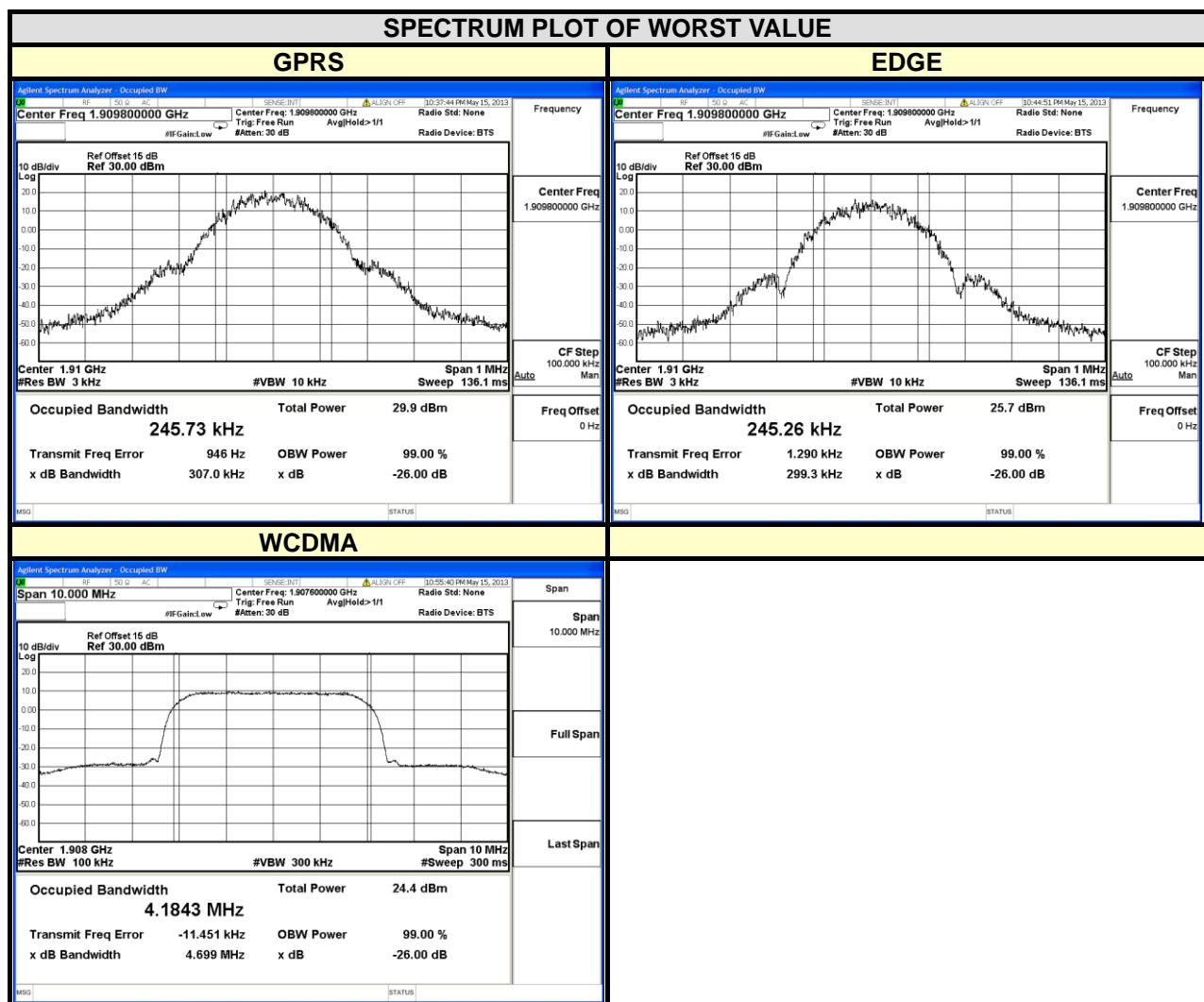




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4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		GPRS	EDGE			WCDMA	
512	1850.2	241.72	240.27	9262	1852.4	4.1790	
661	1880.0	245.44	242.59	9400	1880.0	4.1813	
810	1909.8	245.73	245.26	9538	1907.6	4.1843	





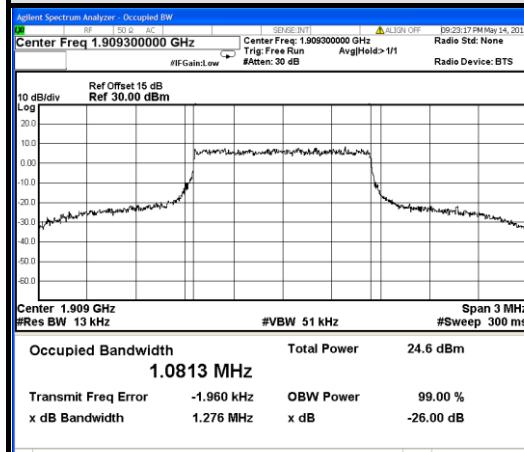
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LTE BAND 2

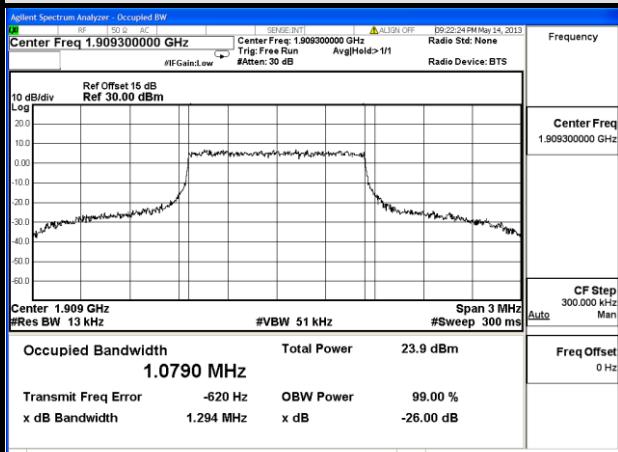
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	1.0781	1.0776	18615	1851.5	2.7233	2.7222
18900	1880	1.0796	1.0770	18900	1880	2.7219	2.7199
19193	1909.3	1.0813	1.0790	19185	1908.5	2.7274	2.7251

SPECTRUM PLOT OF WORST VALUE

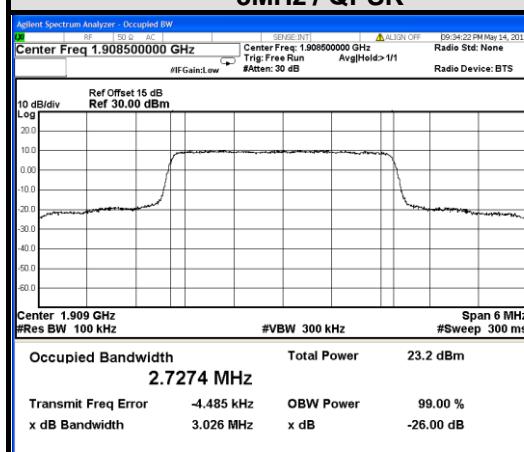
1.4MHz / QPSK



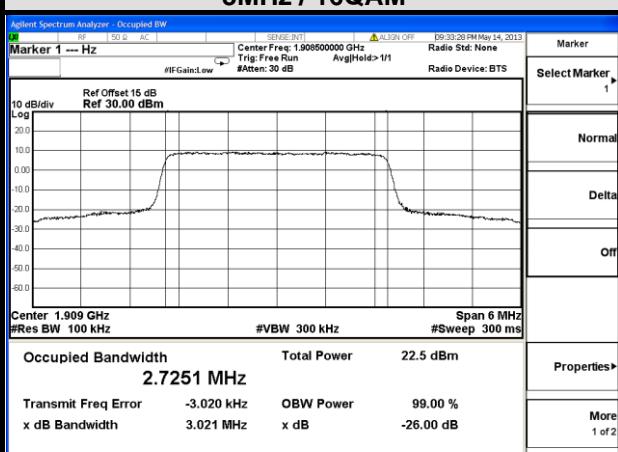
1.4MHz / 16QAM



3MHz / QPSK



3MHz / 16QAM





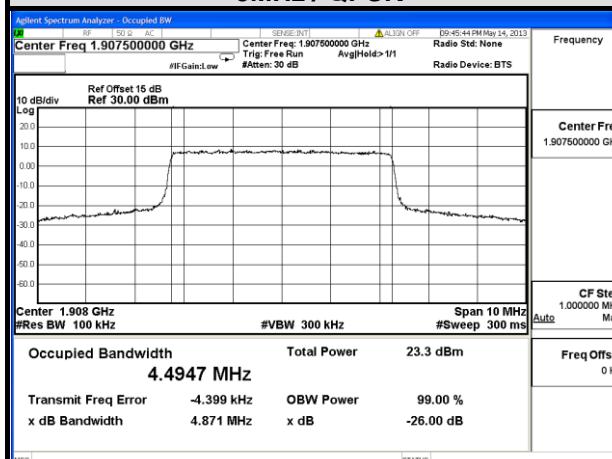
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LTE BAND 2

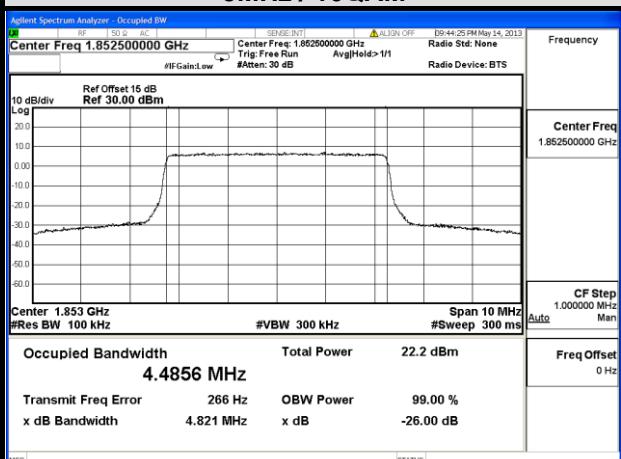
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.4892	4.4856	18650	1855	8.9263	8.9240
18900	1880	4.4897	4.4850	18900	1880	8.9256	8.9200
19175	1907.5	4.4947	4.4849	19150	1905	8.9180	8.9163

SPECTRUM PLOT OF WORST VALUE

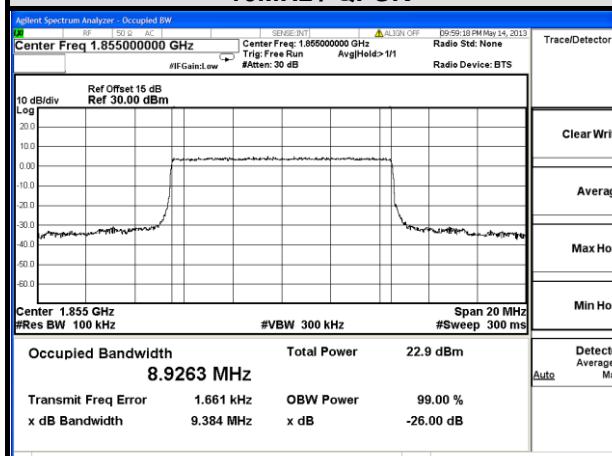
5MHz / QPSK



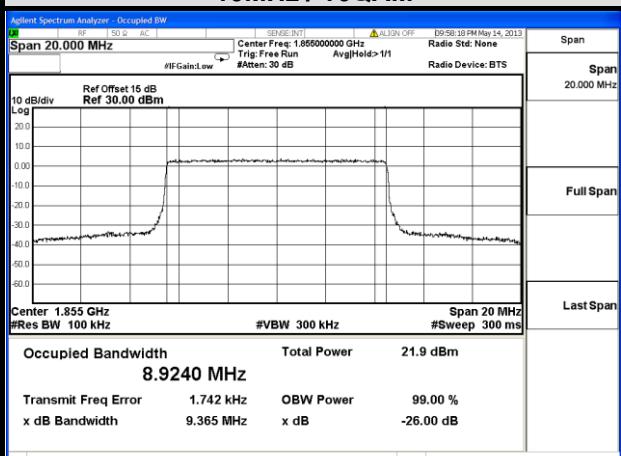
5MHz / 16QAM



10MHz / QPSK



10MHz / 16QAM





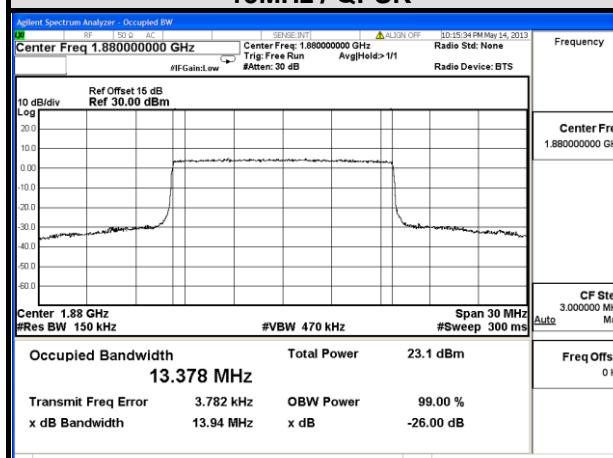
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LTE BAND 2

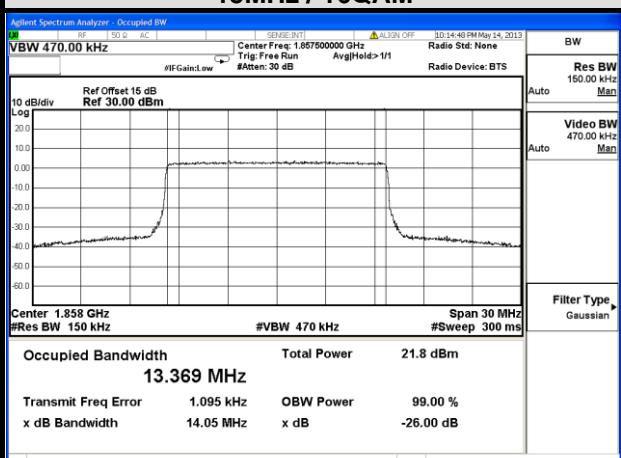
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.373	13.369	18700	1860	17.826	17.836
18900	1880	13.378	13.365	18900	1880	17.821	17.822
19125	1902.5	13.371	13.367	19100	1900	17.824	17.828

SPECTRUM PLOT OF WORST VALUE

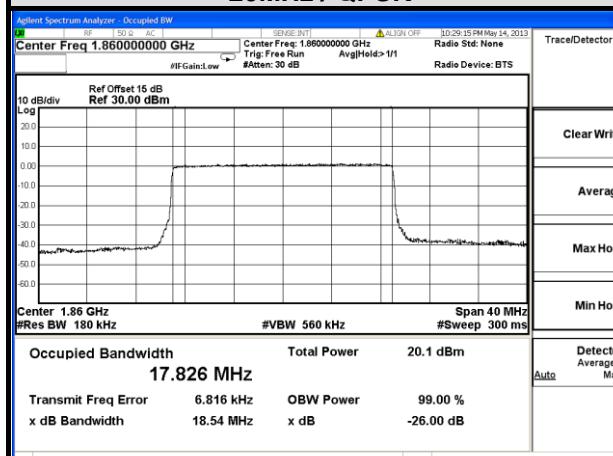
15MHz / QPSK



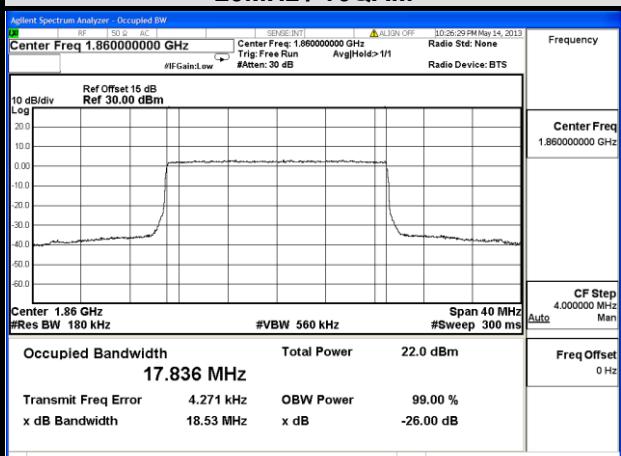
15MHz / 16QAM



20MHz / QPSK



20MHz / 16QAM

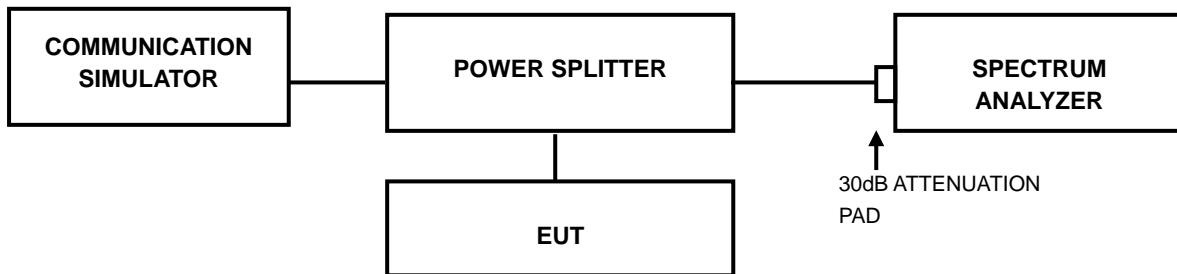


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

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

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

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

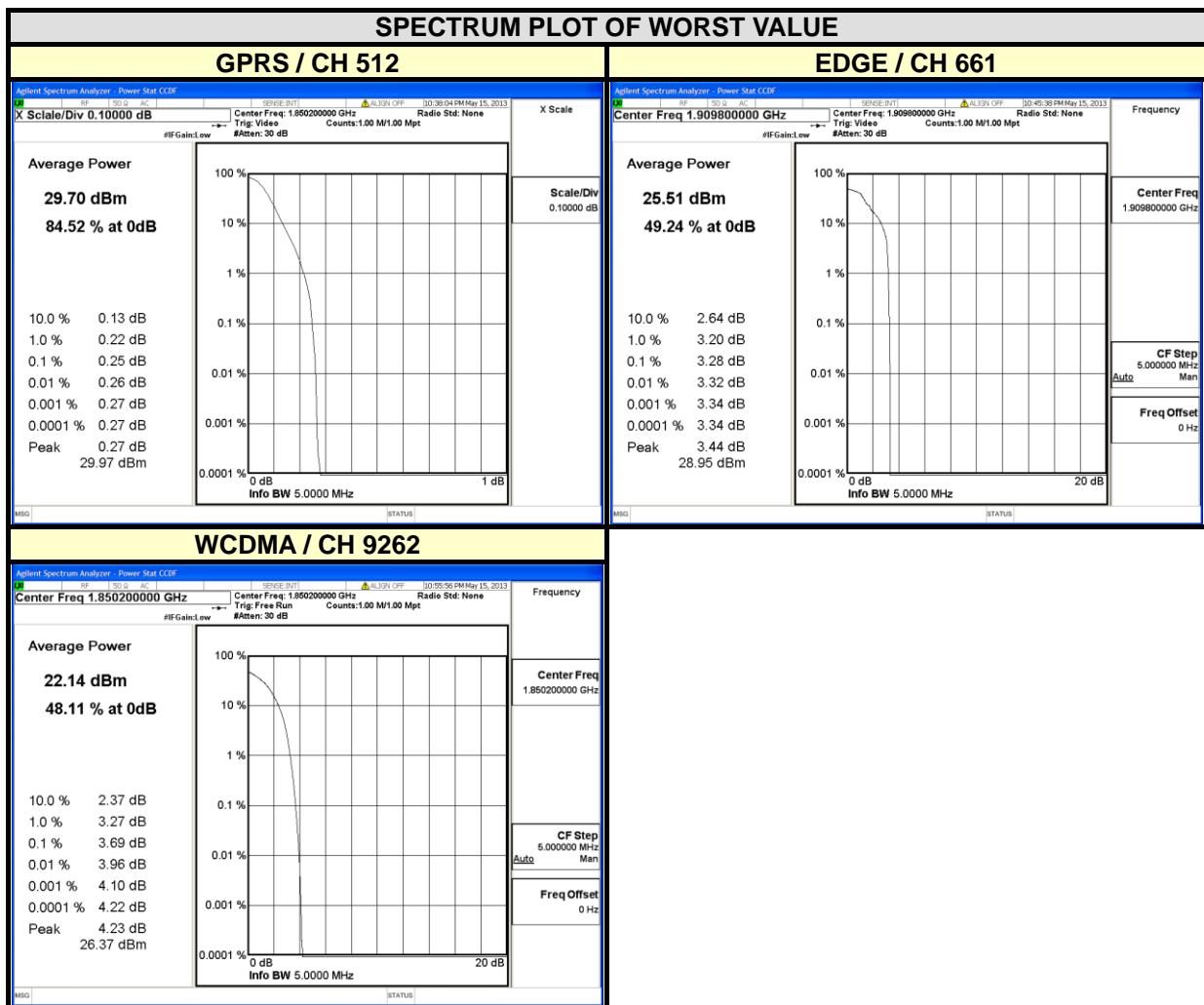


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4.4.4 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		GPRS	EDGE
512	1850.2	0.25	3.25
661	1880.0	0.24	3.23
810	1909.8	0.24	3.28

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		WCDMA	
9262	1852.4	3.69	
9400	1880.0	2.83	
9538	1907.6	2.56	





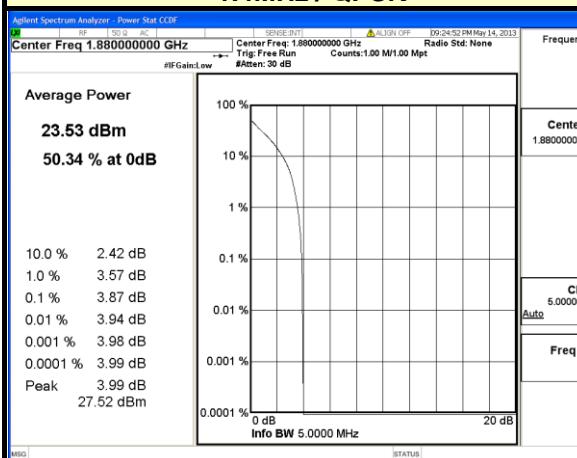
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LTE BAND 2

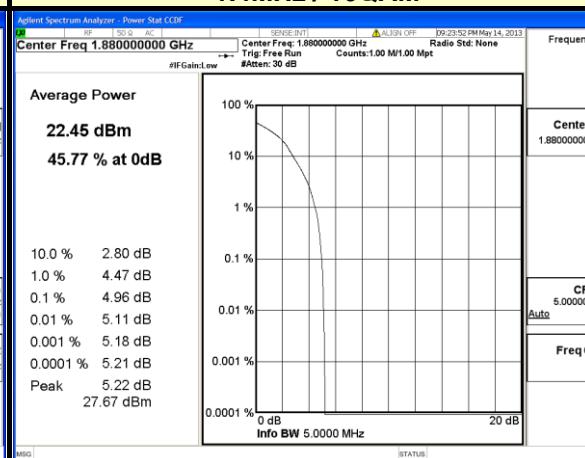
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	3.55	4.63	18615	1851.5	3.55	4.66
18900	1880	3.87	4.96	18900	1880	3.89	4.99
19193	1909.3	2.70	3.89	19185	1908.5	3.08	4.18

SPECTRUM PLOT OF WORST VALUE

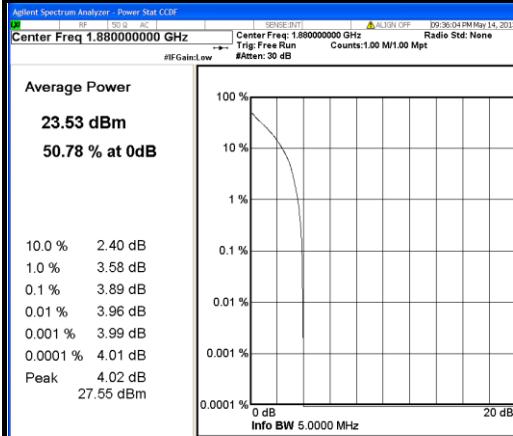
1.4MHz / QPSK



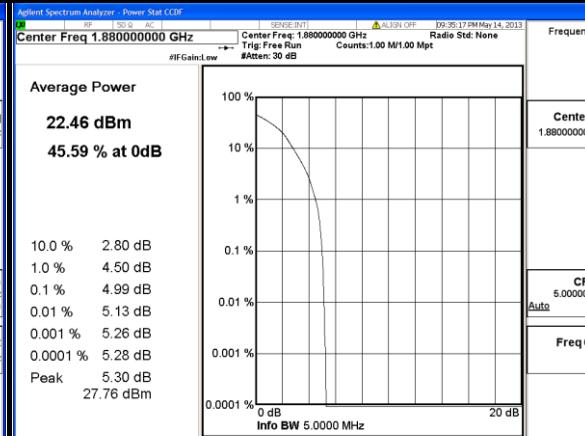
1.4MHz / 16QAM



3MHz / QPSK



3MHz / 16QAM





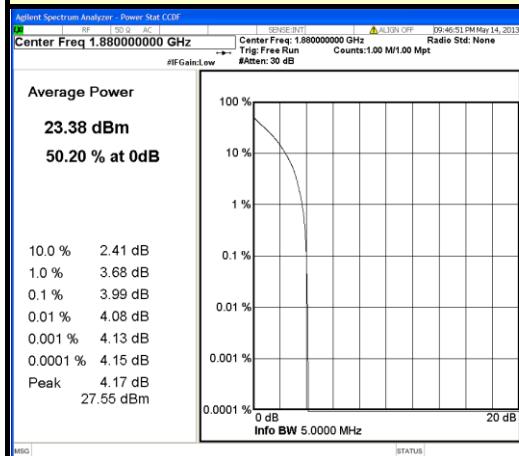
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LTE BAND 2

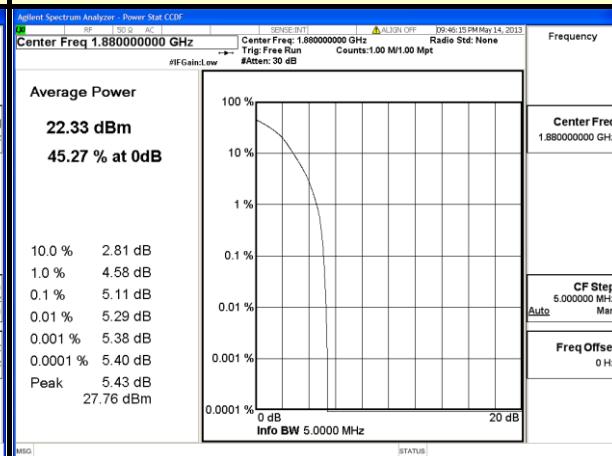
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	3.57	4.63	18650	1855	3.56	4.57
18900	1880	3.99	5.11	18900	1880	4.07	5.13
19175	1907.5	3.76	4.88	19150	1905	4.46	5.43

SPECTRUM PLOT OF WORST VALUE

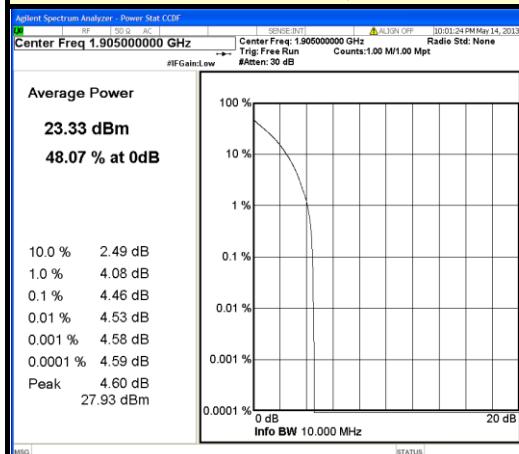
5MHz / QPSK



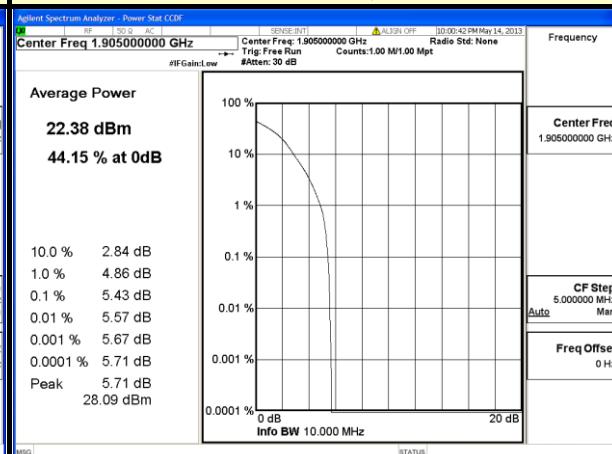
5MHz / 16QAM



10MHz / QPSK



10MHz / 16QAM





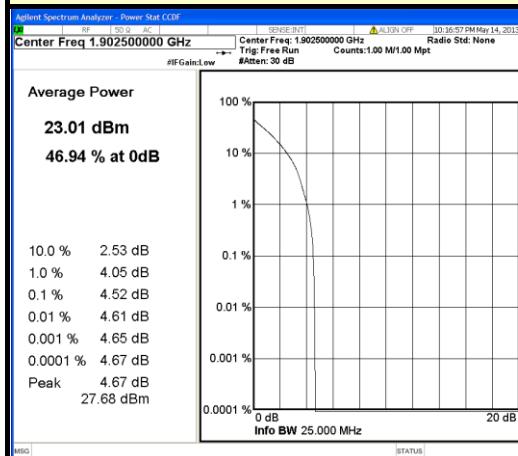
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LTE BAND 2

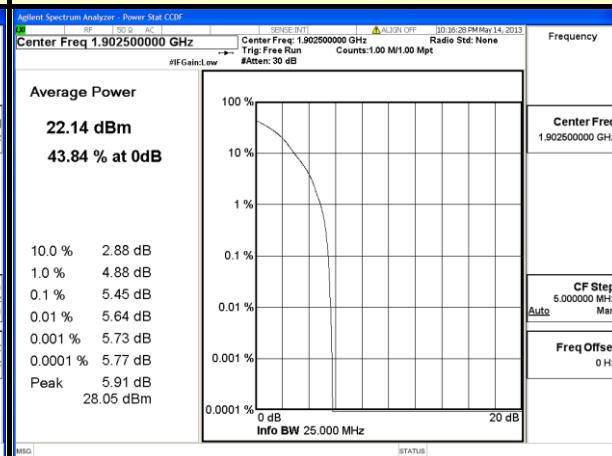
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	3.62	4.71	18700	1860	3.57	4.66
18900	1880	4.17	5.11	18900	1880	4.33	5.38
19125	1902.5	4.52	5.45	19100	1900	4.05	4.97

SPECTRUM PLOT OF WORST VALUE

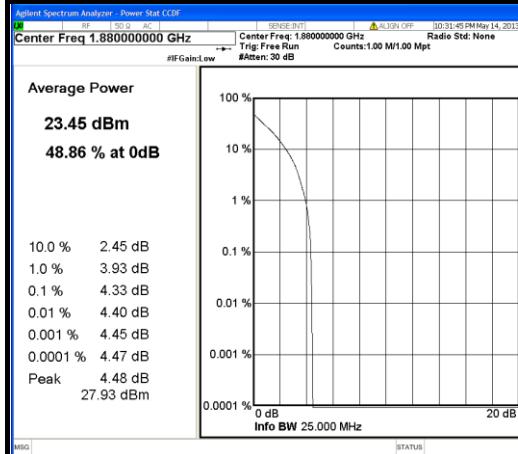
15MHz / QPSK



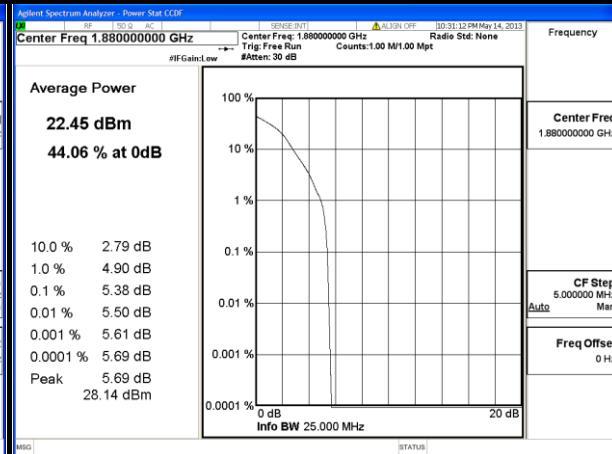
15MHz / 16QAM



20MHz / QPSK



20MHz / 16QAM

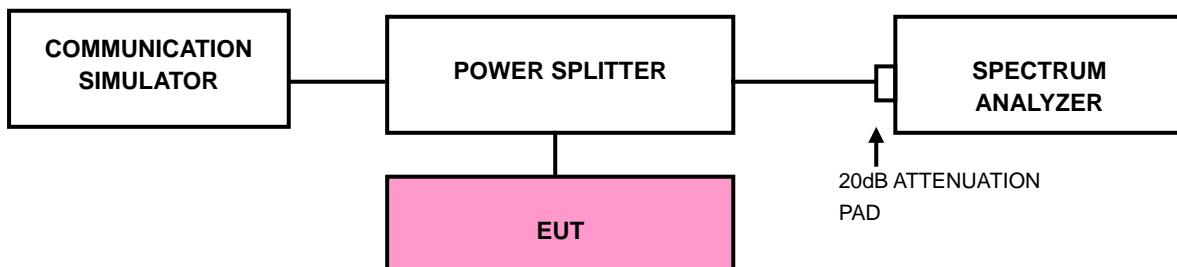


4.5 BAND EDGE MEASUREMENT

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

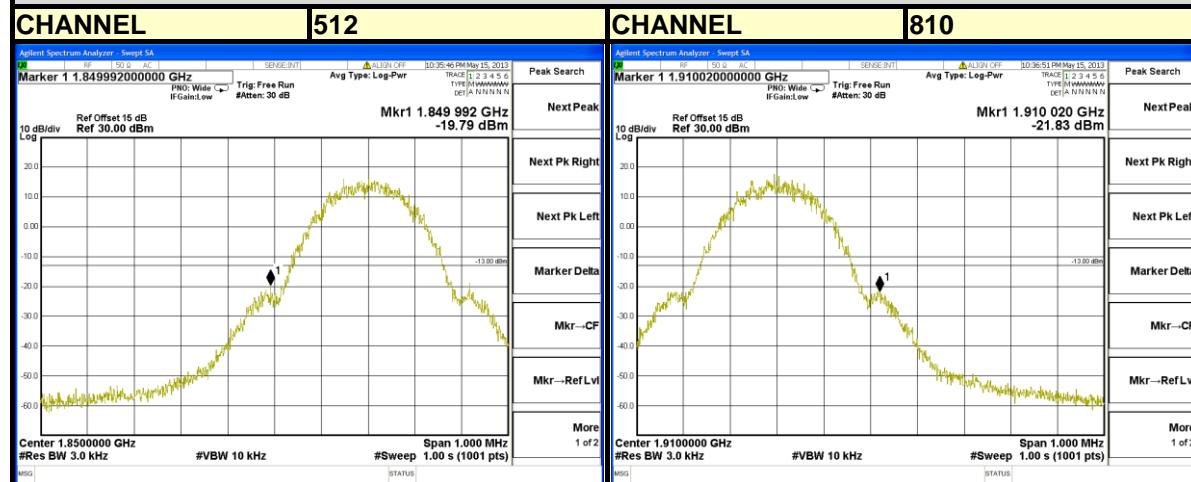
- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1 MHz.
RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/ EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5MHz.
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.



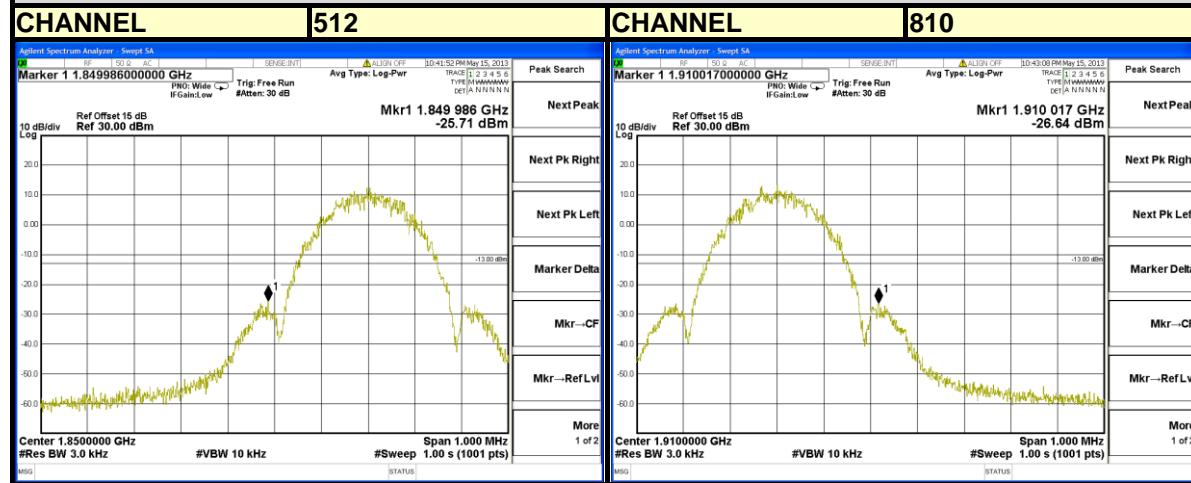
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4.5.4 TEST RESULTS

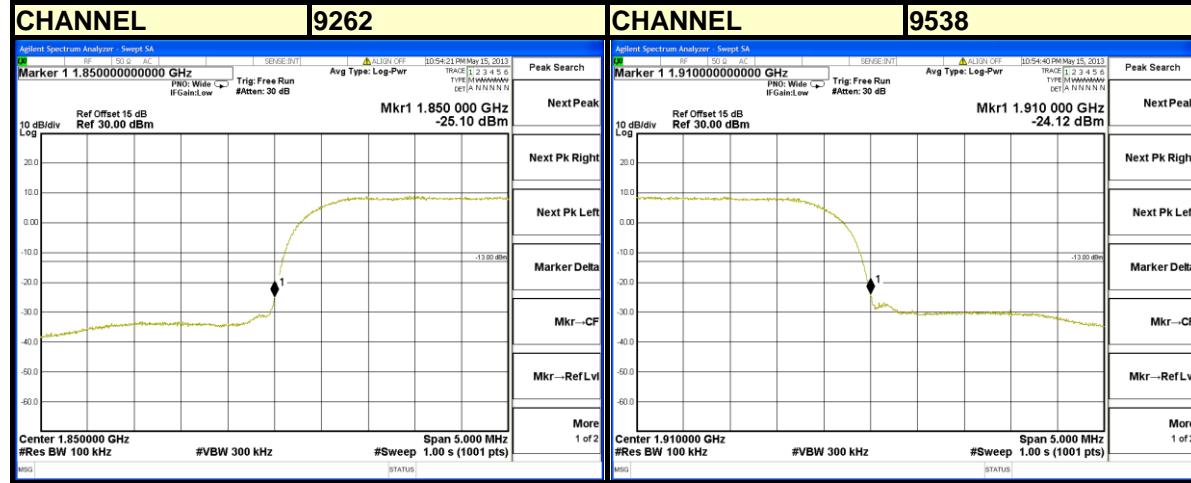
GPRS



EDGE



WCDMA

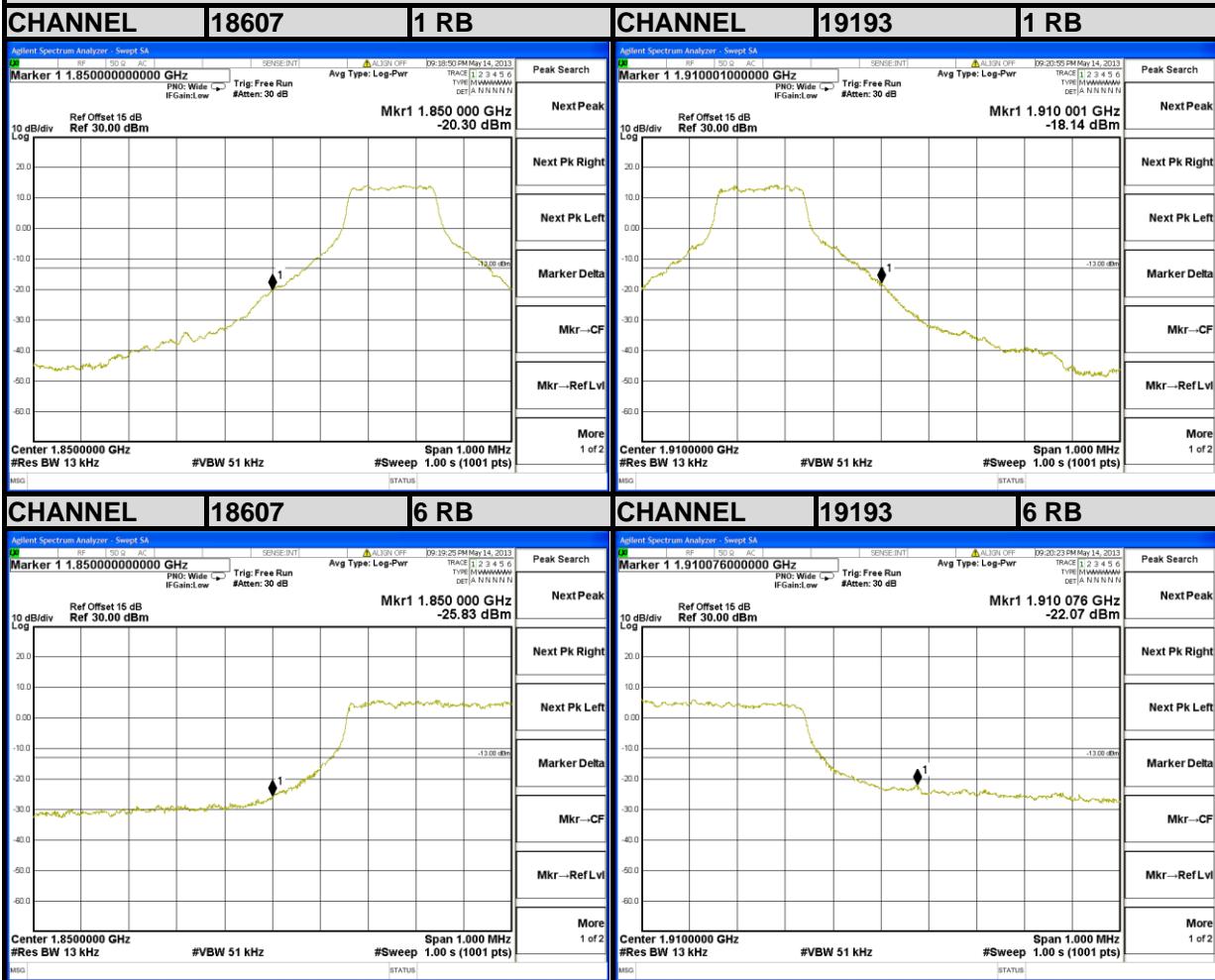




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LTE Band 2

Channel Bandwidth: 1.4MHz

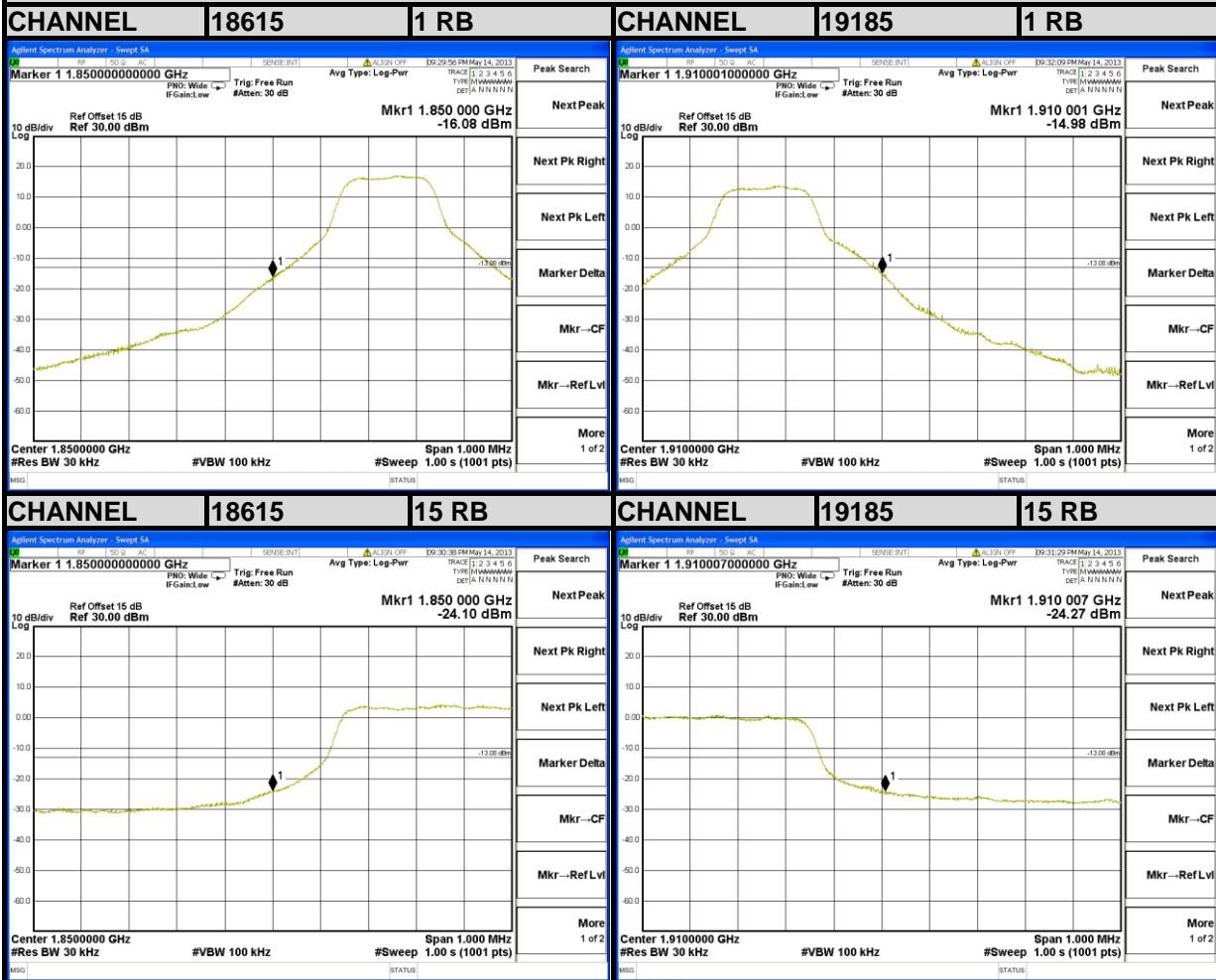




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LTE Band 2

Channel Bandwidth: 3MHz

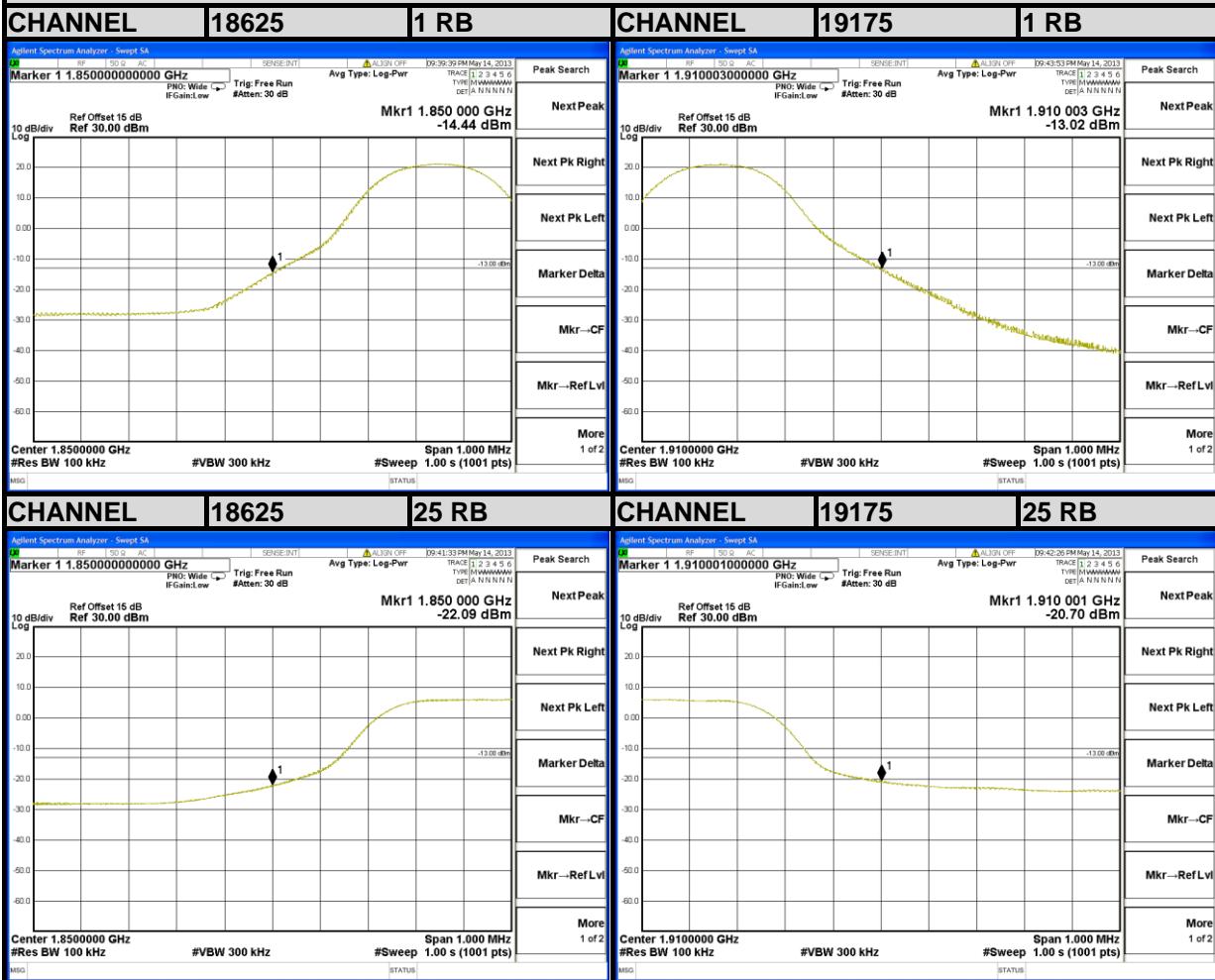




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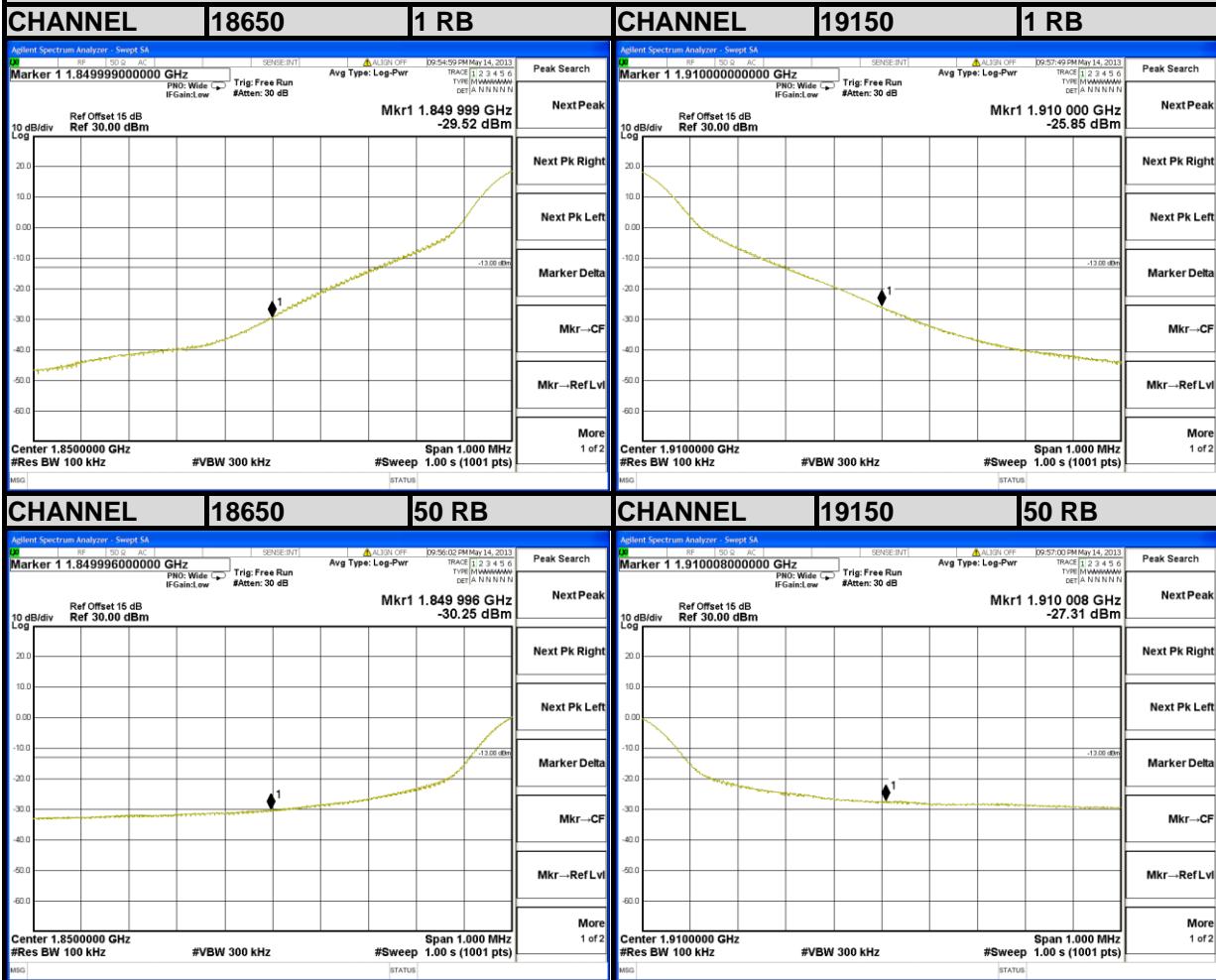
LTE Band 2

Channel Bandwidth: 5MHz



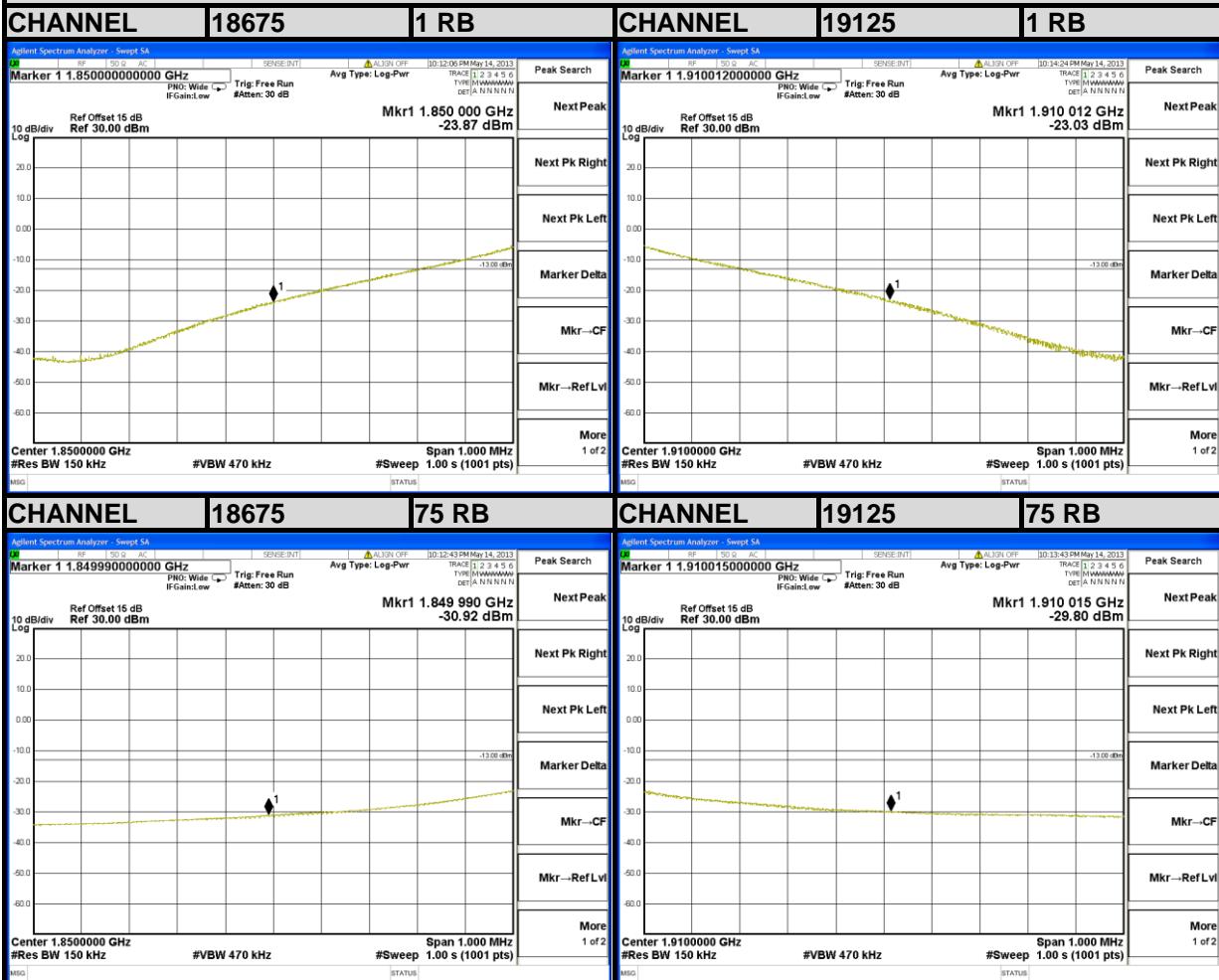


A D T

LTE Band 2**Channel Bandwidth: 10MHz**

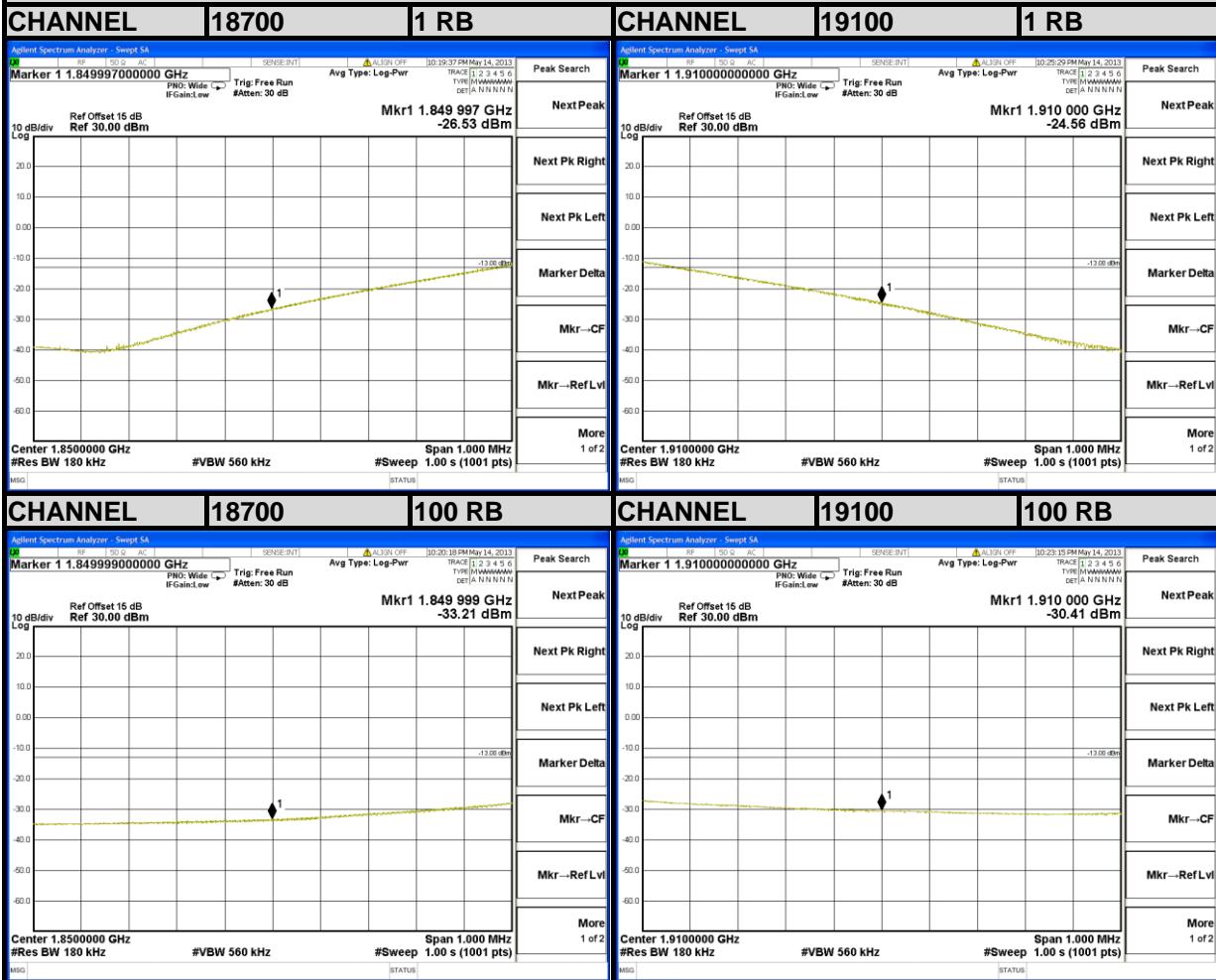


A D T

LTE Band 2**Channel Bandwidth: 15MHz**



A D T

LTE Band 2**Channel Bandwidth: 20MHz**

4.6 CONDUCTED SPURIOUS EMISSIONS

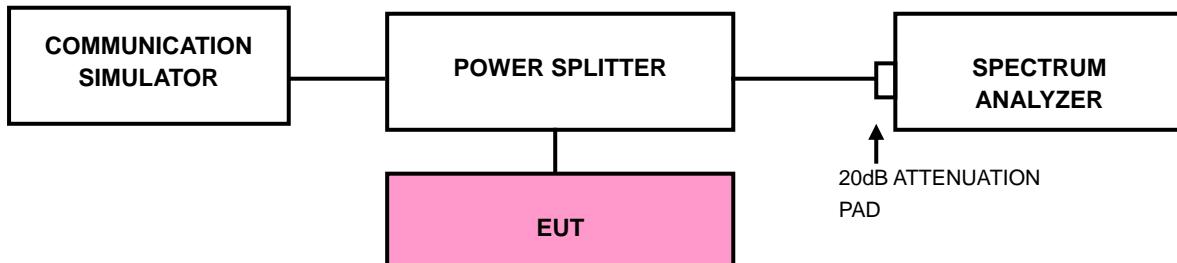
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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





A D T

4.6.4 TEST RESULTS

GPRS

CHANNEL 661

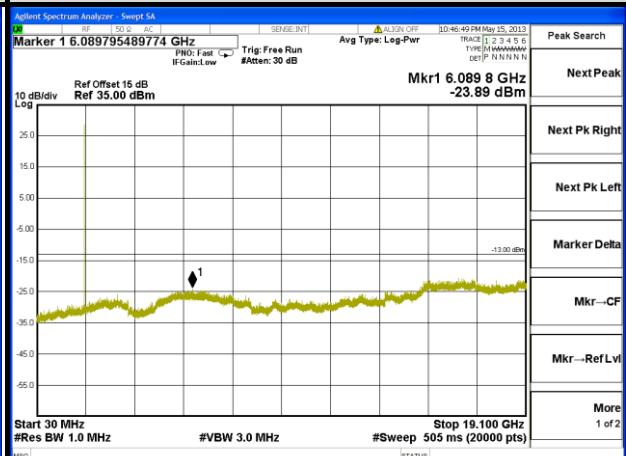
FREQUENCY RANGE : 30MHz~19.1GHz



EDGE

CHANNEL 661

FREQUENCY RANGE : 30MHz~19.1GHz



WCDMA

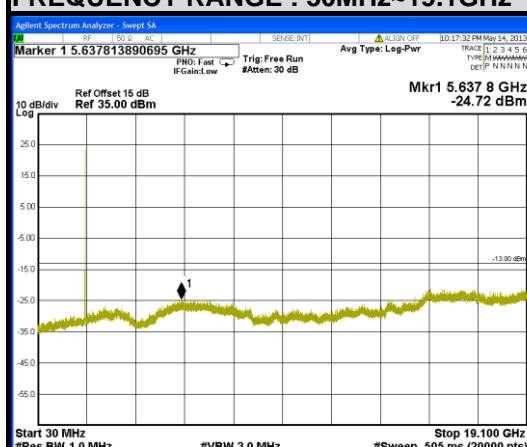
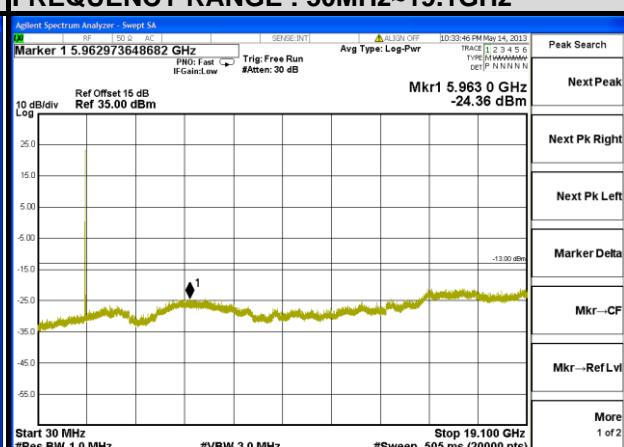
CHANNEL 9400

FREQUENCY RANGE : 30MHz~19.1GHz





A D T

LTE Band 2 (Channel Bandwidth: 1.4MHz)**CHANNEL 18900****FREQUENCY RANGE : 30MHz~19.1GHz****LTE Band 2 (Channel Bandwidth: 3MHz)****CHANNEL 18900****FREQUENCY RANGE : 30MHz~19.1GHz****LTE Band 2 (Channel Bandwidth: 5MHz)****CHANNEL 18900****FREQUENCY RANGE : 30MHz~19.1GHz****LTE Band 2 (Channel Bandwidth: 10MHz)****CHANNEL 18900****FREQUENCY RANGE : 30MHz~19.1GHz****LTE Band 2 (Channel Bandwidth: 15MHz)****CHANNEL 18900****FREQUENCY RANGE : 30MHz~19.1GHz****LTE Band 2 (Channel Bandwidth: 20MHz)****CHANNEL 18900****FREQUENCY RANGE : 30MHz~19.1GHz**



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

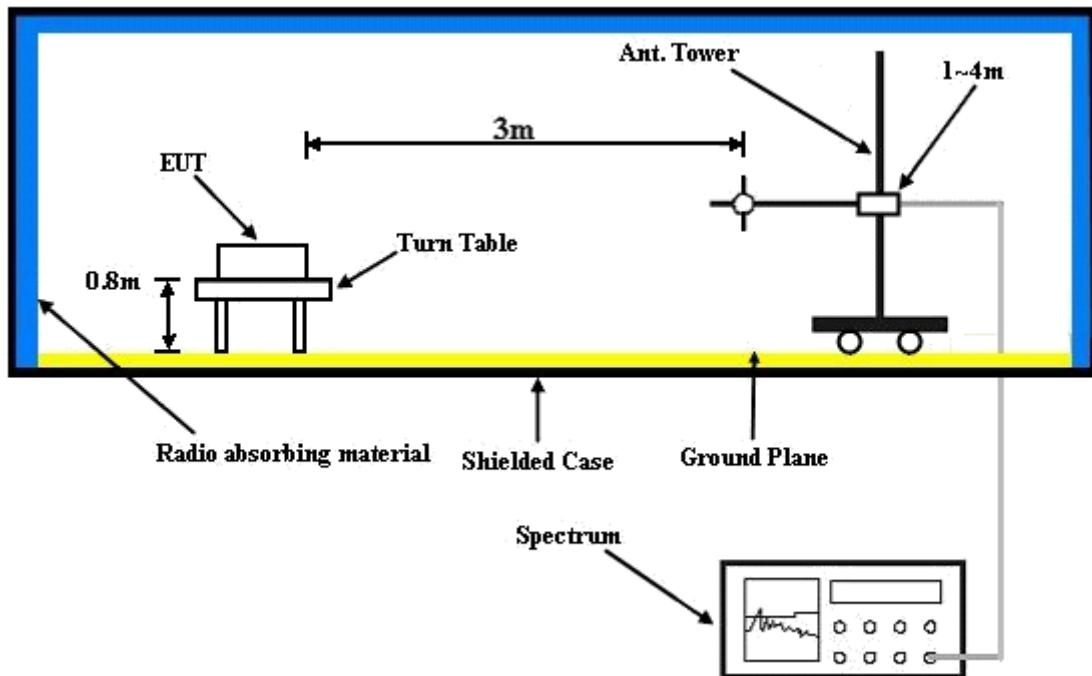
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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



A D T

4.7.5 TEST RESULTS

GPRS:



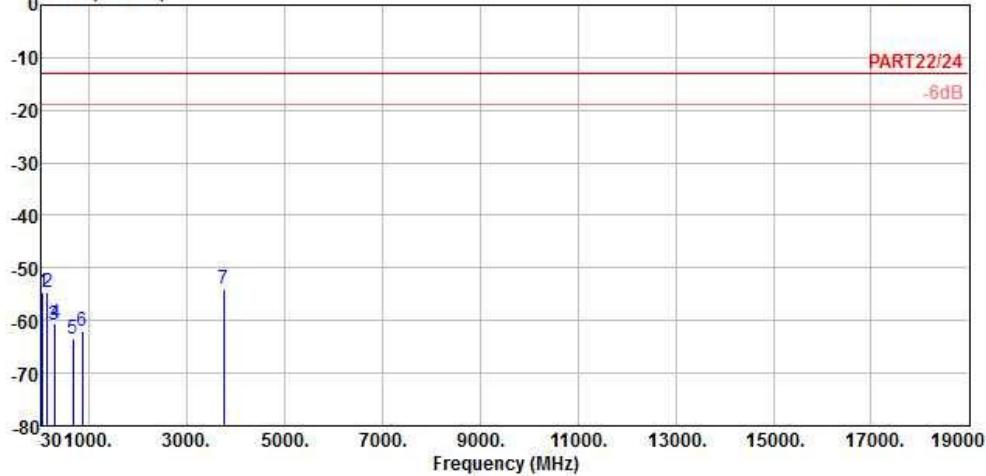
Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Level (dBm/m)

Date: 2013-05-04



Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: ME571KL
Remark : GPRS1900 Link
Tested by : Johnson Liao
Temperature : 25°C
Humidity : 65%
Plane : X

Freq	Read Level	Limit Level	Over Line	Factor		Remark
				dBm	dBm/m	
1	42.96	-54.72	-53.39	-13.00	-41.72	-1.33 Peak
2	152.31	-54.68	-48.29	-13.00	-41.68	-6.39 Peak
3	290.28	-60.95	-54.71	-13.00	-47.95	-6.24 Peak
4	307.70	-60.62	-54.30	-13.00	-47.62	-6.32 Peak
5	673.10	-63.44	-64.40	-13.00	-50.44	0.96 Peak
6	864.20	-62.04	-64.54	-13.00	-49.04	2.50 Peak
7 pp	3760.00	-54.16	-47.43	-13.00	-41.16	-6.73 Peak



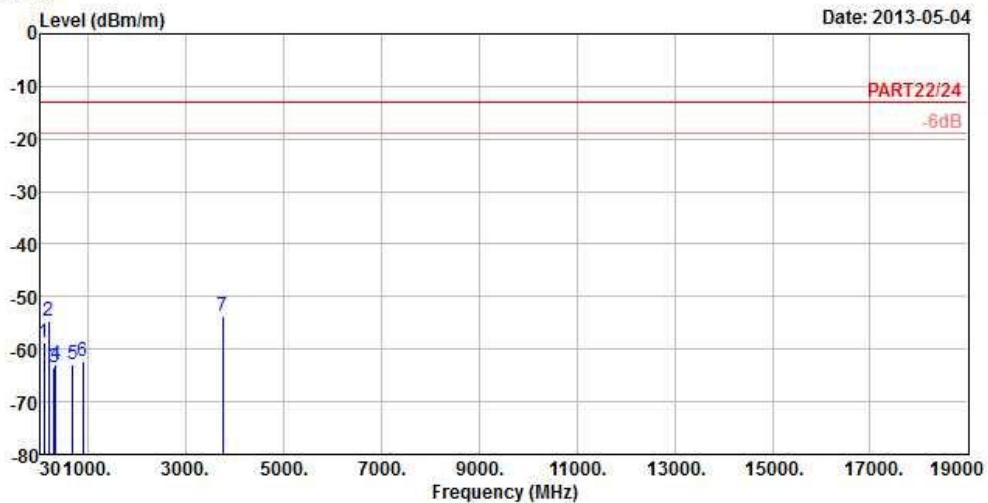
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: ME571KL
Remark : GPRS1900 Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : X

	Freq	Read Level	Limit Level	Over Line	Limit Factor	Over Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	98.85	-58.76	-48.34	-13.00	-45.76	-10.42 Peak
2	198.48	-54.65	-46.81	-13.00	-41.65	-7.84 Peak
3	297.30	-63.40	-57.05	-13.00	-50.40	-6.35 Peak
4	335.70	-62.83	-56.72	-13.00	-49.83	-6.11 Peak
5	679.40	-62.94	-64.01	-13.00	-49.94	1.07 Peak
6	888.70	-62.14	-64.77	-13.00	-49.14	2.63 Peak
7 pp	3760.00	-53.61	-46.88	-13.00	-40.61	-6.73 Peak



A D T

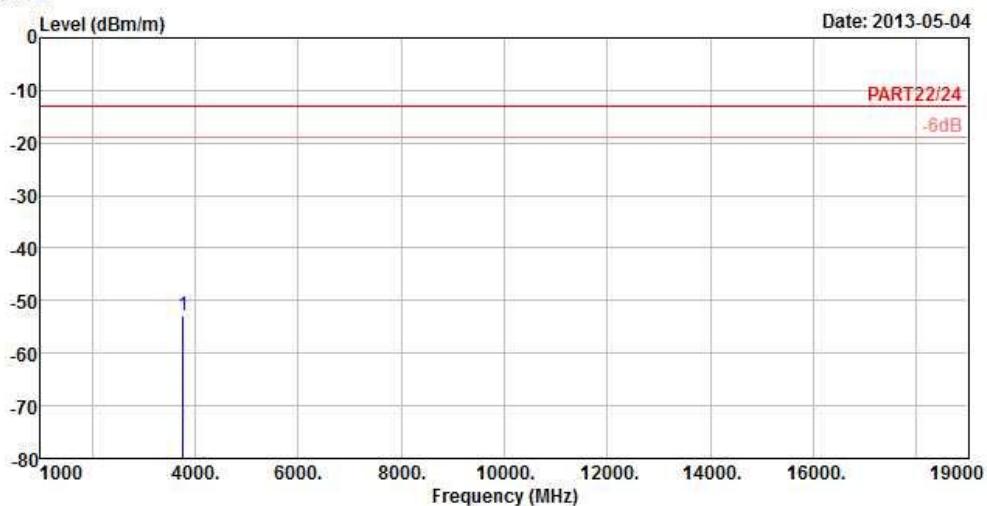
EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: ME571KL
Remark : EDGE1900 Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : X

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

1 pp 3760.00 -52.78 -46.05 -13.00 -39.78 -6.73 Peak



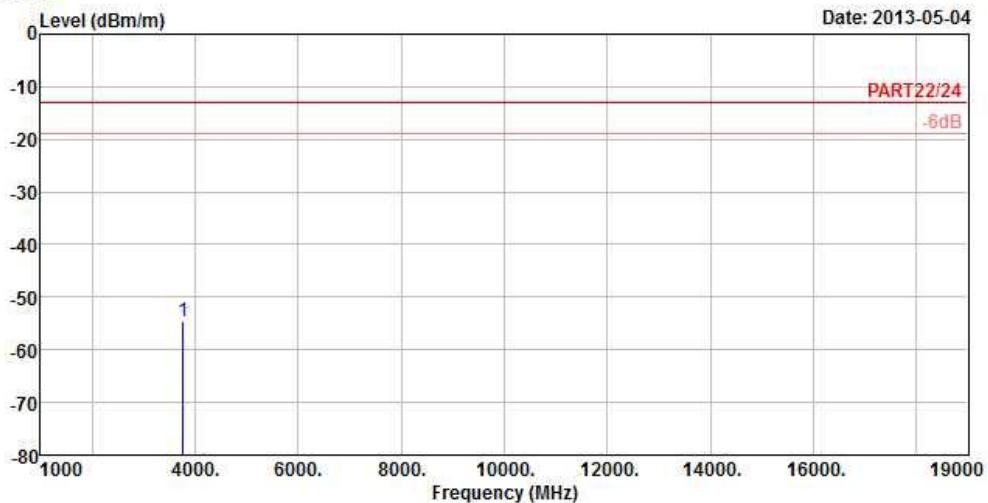
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: ME571KL
Remark : EDGE1900 Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : X

Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
------	------------	-------------	-----------	--------------	--------

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

1 pp	3760.00	-54.50	-47.77	-13.00	-41.50	-6.73 Peak
------	---------	--------	--------	--------	--------	------------



A D T

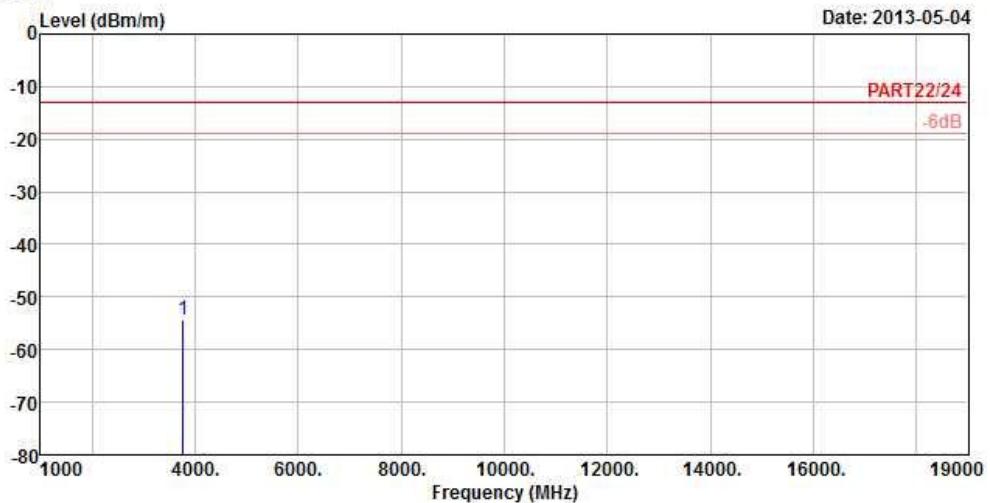
WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5

Condition : PART22/24 3m HORIZONTAL

Brand/Model: ME571KL

Remark : Band II Link

Tested by : Johnson Liao

Temprature : 25°C

Humidity : 65%

Plane : X

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	3760.00	-54.25	-47.52	-13.00	-41.25	-6.73 Peak



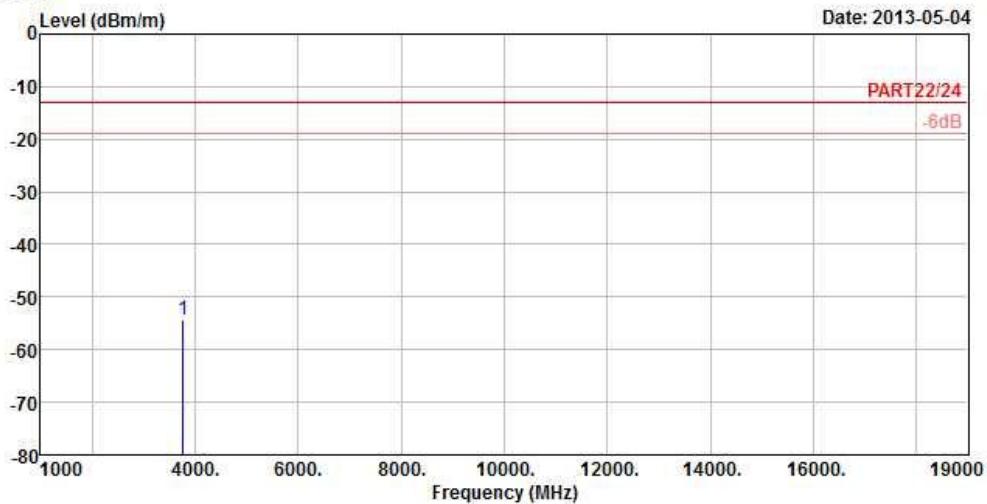
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: ME571KL
Remark : Band II Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : X

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm/m	dB		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	3760.00	-54.46	-47.73	-13.00	-41.46	-6.73 Peak



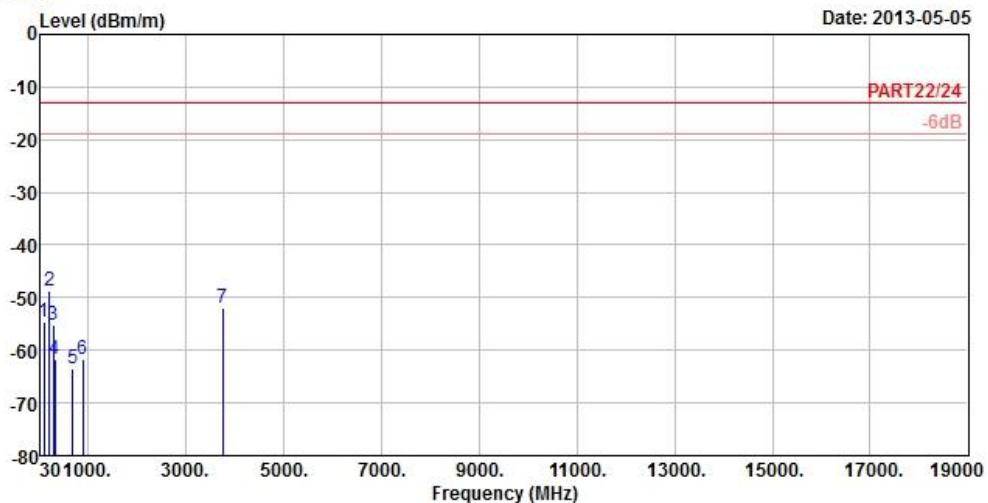
A D T

LTE BAND 2**CHANNEL BANDWIDTH: 1.4MHz / QPSK**

Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5

Condition : PART22/24 3m HORIZONTAL

Brand/Model: ME571KL

Remark : Band 2_1.4M_QPSK(1,2) Link

Tested by : Johnson Liao

Temperature : 25°C

Humidity : 65%

Plane : Z

	Freq	Read Level	Limit Level	Over Line	Limit	Over Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	98.85	-54.59	-44.17	-13.00	-41.59	-10.42	Peak
2 pp	205.23	205.23	-48.72	-41.03	-13.00	-35.72	-7.69 Peak
3	292.44	-55.22	-48.94	-13.00	-42.22	-6.28	Peak
4	327.30	-61.63	-55.45	-13.00	-48.63	-6.18	Peak
5	685.70	-63.45	-64.64	-13.00	-50.45	1.19	Peak
6	898.50	-61.81	-64.50	-13.00	-48.81	2.69	Peak
7	3760.00	-51.86	-45.13	-13.00	-38.86	-6.73	Peak



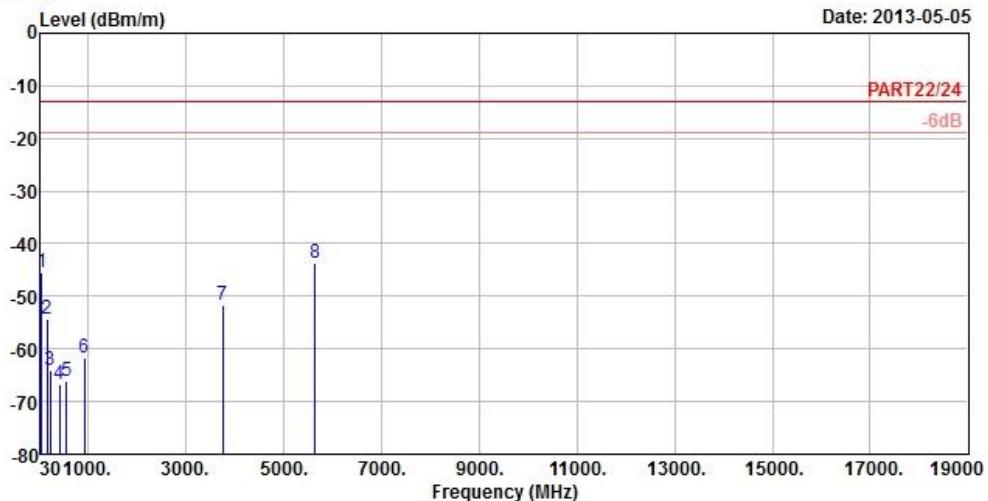
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5

Condition : PART22/24 3m VERTICAL

Brand/Model: ME571KL

Remark : Band 2_1.4M_QPSK(1,2) Link

Tested by : Johnson Liao

Temperature : 25°C

Humidity : 65%

Plane : Z

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm/m	dBm		
1	42.96	-45.44	-44.11	-13.00	-32.44	-1.33 Peak
2	166.35	-54.42	-47.78	-13.00	-41.42	-6.64 Peak
3	228.45	-64.08	-57.44	-13.00	-51.08	-6.64 Peak
4	415.50	-66.70	-61.45	-13.00	-53.70	-5.25 Peak
5	563.90	-65.99	-64.63	-13.00	-52.99	-1.36 Peak
6	918.80	-61.77	-64.83	-13.00	-48.77	3.06 Peak
7	3760.00	-51.78	-45.05	-13.00	-38.78	-6.73 Peak
8 pp	5640.00	-43.77	-43.98	-13.00	-30.77	0.21 Peak



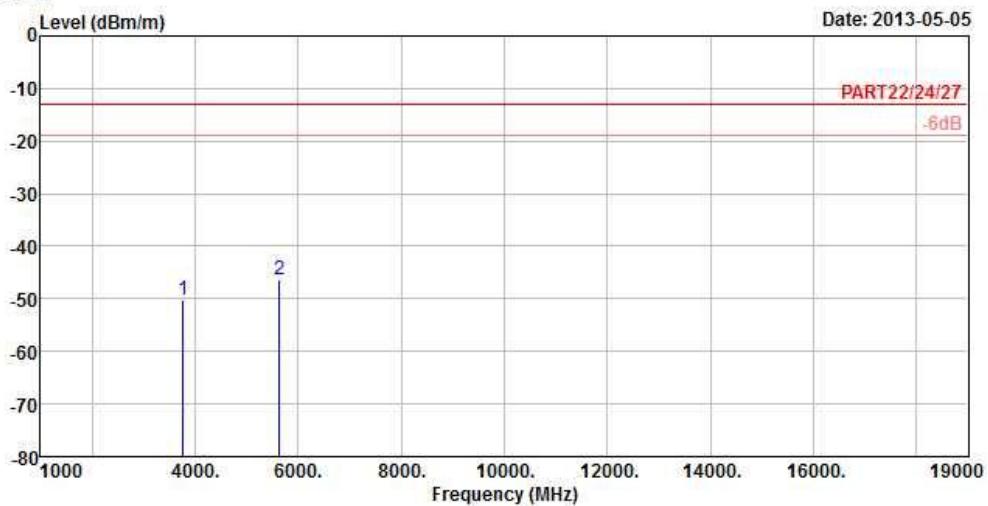
A D T

LTE BAND 2**CHANNEL BANDWIDTH: 3MHz / QPSK**

Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5
Condition : PART22/24/27 3m HORIZONTAL
Brand/Model: ME571KL
Remark : Band 2_3M_QPSK(1,7) Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : Z

	Freq	Read Level	Limit Level	Over Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-50.09	-43.36	-13.00	-37.09	-6.73	Peak
2 pp	5640.00	-46.43	-46.64	-13.00	-33.43	0.21	Peak



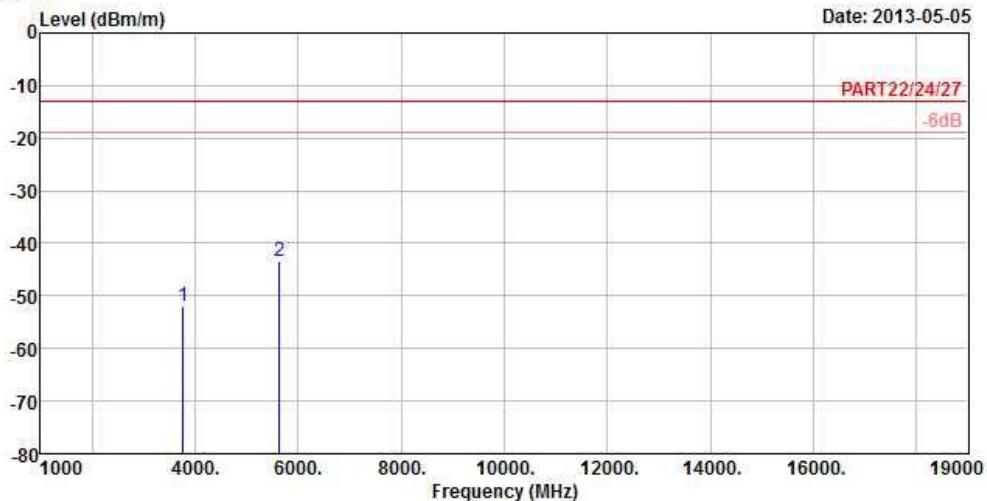
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5

Condition : PART22/24/27 3m VERTICAL

Brand/Model: ME571KL

Remark : Band 2_3M_QPSK(1,7) Link

Tested by : Johnson Liao

Temperature : 25°C

Humidity : 65%

Plane : Z

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm/m	dBm	dBm/m	dB
1	3760.00	-51.83	-45.10	-13.00	-38.83	-6.73 Peak
2 pp	5640.00	-43.49	-43.70	-13.00	-30.49	0.21 Peak



A D T

LTE BAND 2

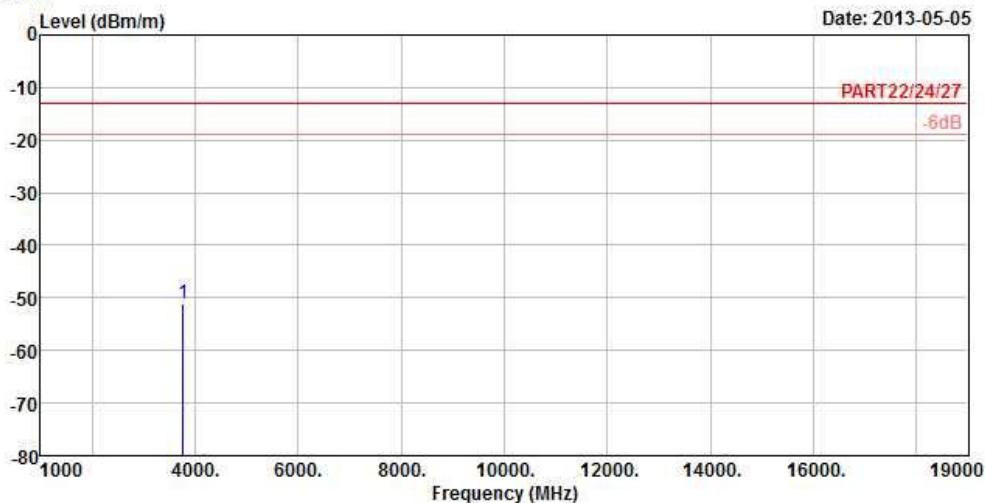
CHANNEL BANDWIDTH: 5MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5
Condition : PART22/24/27 3m HORIZONTAL
Brand/Model: ME571KL
Remark : Band 2_5M_QPSK(1,12) Link
Tested by : Johnson Liao
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 3760.00 -51.09 -44.36 -13.00 -38.09 -6.73 Peak



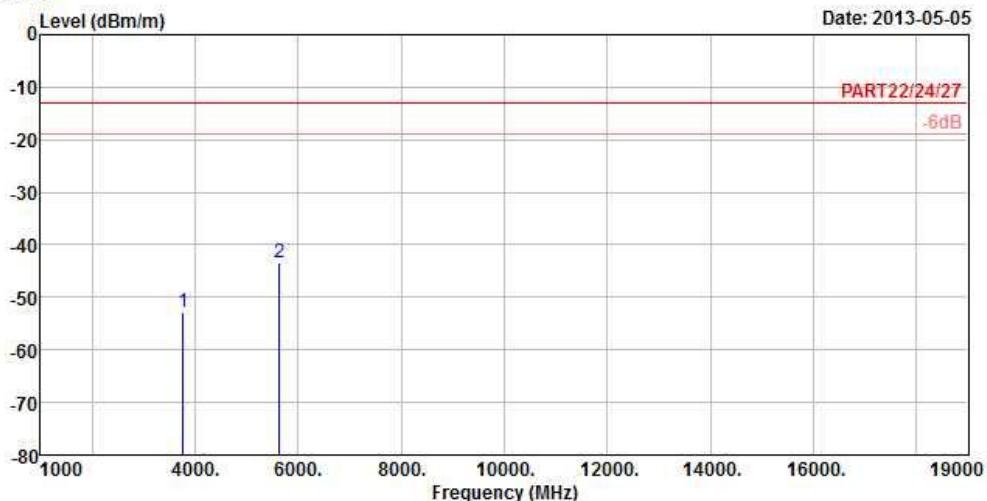
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
Condition : PART22/24/27 3m VERTICAL
Brand/Model: ME571KL
Remark : Band 2_5M_QPSK(1,12) Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : Z

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm/m	dBm	dBm/m	dB
1	3760.00	-52.88	-46.15	-13.00	-39.88	-6.73 Peak
2 pp	5640.00	-43.31	-43.52	-13.00	-30.31	0.21 Peak



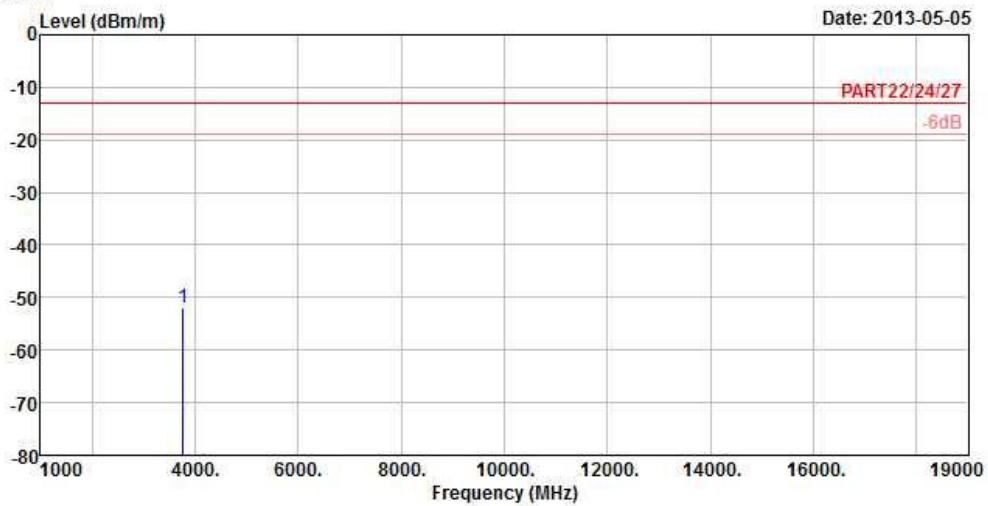
A D T

LTE BAND 2**CHANNEL BANDWIDTH: 10MHz / QPSK**

Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5
Condition : PART22/24/27 3m HORIZONTAL
Brand/Model: ME571KL
Remark : Band 2_10M_QPSK(1,24) Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : Z

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

1 pp	3760.00	-52.02	-45.29	-13.00	-39.02	-6.73 Peak
------	---------	--------	--------	--------	--------	------------



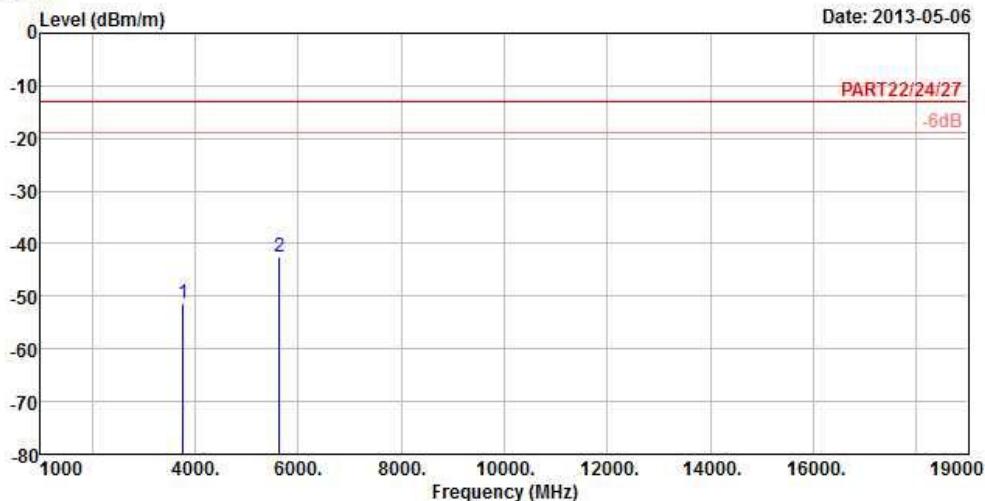
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5

Condition : PART22/24/27 3m VERTICAL

Brand/Model: ME571KL

Remark : Band 2_10M_QPSK(1,24) Link

Tested by : Johnson Liao

Temperature : 25°C

Humidity : 65%

Plane : Z

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm/m	dBm	dBm/m	dB
1	3760.00	-51.50	-44.77	-13.00	-38.50	-6.73 Peak
2 pp	5640.00	-42.62	-42.83	-13.00	-29.62	0.21 Peak



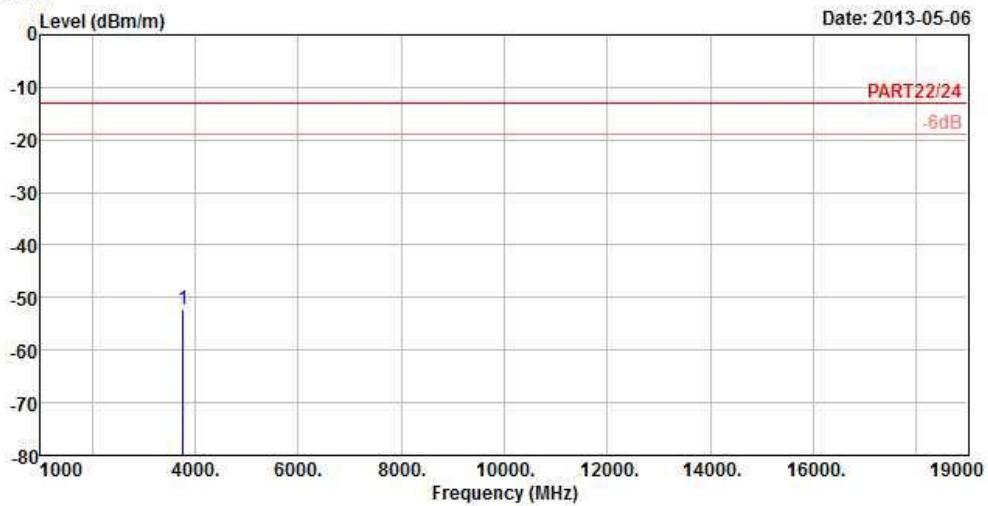
A D T

LTE BAND 2**CHANNEL BANDWIDTH: 15MHz / QPSK**

Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5

Condition : PART22/24 3m HORIZONTAL

Brand/Model: ME571KL

Remark : Band 2_15M_QPSK(1,37) Link

Tested by : Johnson Liao

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 3760.00 -52.17 -45.44 -13.00 -39.17 -6.73 Peak



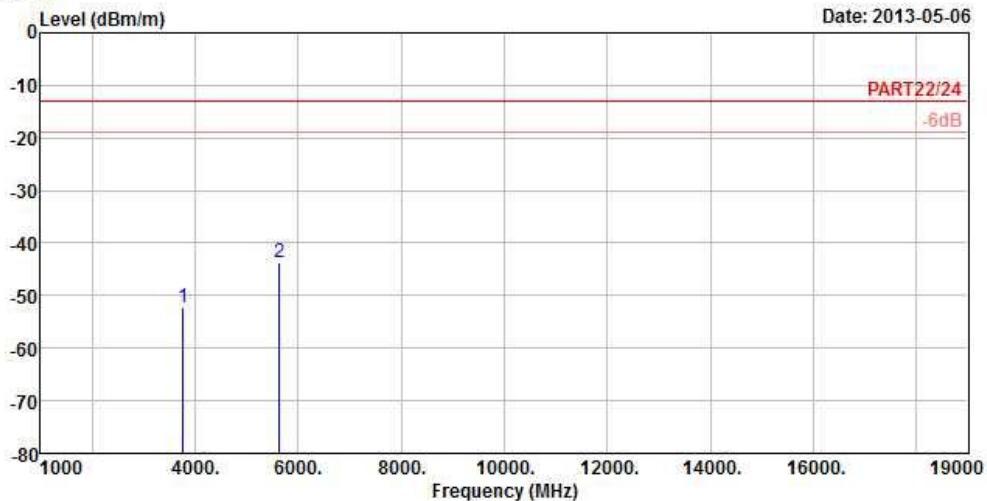
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5

Condition : PART22/24 3m VERTICAL

Brand/Model: ME571KL

Remark : Band 2_15M_QPSK(1,37) Link

Tested by : Johnson Liao

Temprature : 25°C

Humidity : 65%

Plane : Z

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm/m		
1	3760.00	-52.11	-45.38	-13.00	-39.11	-6.73 Peak
2 pp	5640.00	-43.60	-43.81	-13.00	-30.60	0.21 Peak



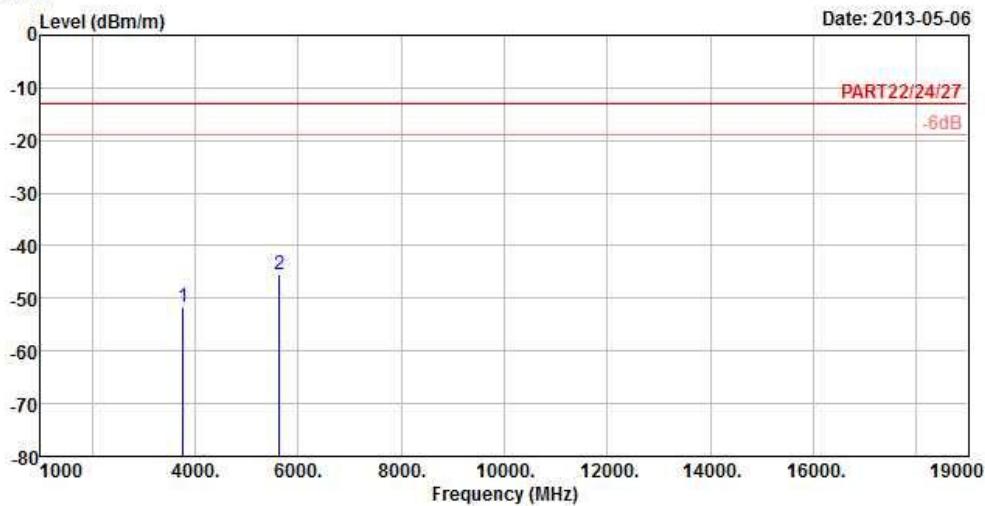
A D T

LTE BAND 2**CHANNEL BANDWIDTH: 20MHz / QPSK**

Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5
Condition : PART22/24/27 3m HORIZONTAL
Brand/Model: ME571KL
Remark : Band 2_20M_QPSK(1,50) Link
Tested by : Johnson Liao
Temprature : 25°C
Humidity : 65%
Plane : Z

Freq	Read Level	Limit	Over	Factor	Remark
		Line	Limit		
MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	3760.00	-51.73	-45.00	-13.00	-38.73 -6.73 Peak
2 pp	5640.00	-45.60	-45.81	-13.00	-32.60 0.21 Peak



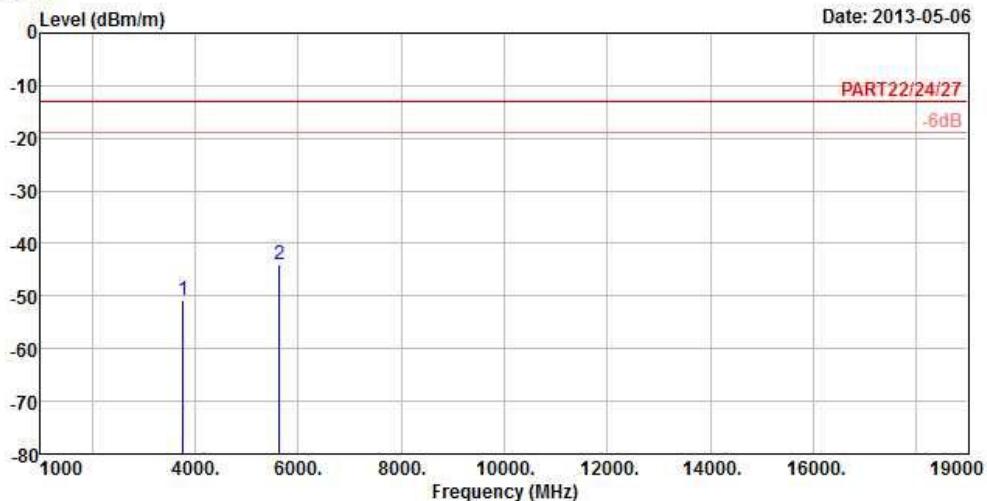
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
Condition : PART22/24/27 3m VERTICAL
Brand/Model: ME571KL
Remark : Band 2_20M_QPSK(1,50) Link
Tested by : Johnson Liao
Temperature : 25°C
Humidity : 65%
Plane : Z

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm/m	dBm	dBm/m	dB
1	3760.00	-50.75	-44.02	-13.00	-37.75	-6.73 Peak
2 pp	5640.00	-43.94	-44.15	-13.00	-30.94	0.21 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:

Linko EMC/RF Lab:
Tel: 886-2-26052180
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.bureauveritas-adt.com

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



A D T

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---