

FCC TEST REPORT (PART 22)

REPORT NO.: RF150625C24

MODEL NO.: C6745

FCC ID: V65C6745

RECEIVED: Jun. 25, 2015

TESTED: Jul. 02, 2015 ~ Jul. 07, 2015

ISSUED: Jul. 22, 2015

APPLICANT: Kyocera Corporation c/o Kyocera

Communications. Inc.

ADDRESS: 9520 Towne Centre Drive, Suite 200, San Diego,

CA 92121

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47-2, 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 Vil., Kwei Shan

Dist., Taoyuan City 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.





This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

Report No.: RF150625C24 1 of 49 Report Format Version 5.0.0



TABLE OF CONTENTS

	ELEASE CONTROL RECORD	
1	CERTIFICATION	4
2	SUMMARY OF TEST RESULTS	
	2.1 MEASUREMENT UNCERTAINTY	
	2.2 TEST SITE AND INSTRUMENTS	
3	GENERAL INFORMATION	
	3.1 GENERAL DESCRIPTION OF EUT	7
	3.2 CONFIGURATION OF SYSTEM UNDER TEST	
	3.3 DESCRIPTION OF SUPPORT UNITS	9
	3.4 TEST ITEM AND TEST CONFIGURATION	. 10
	3.5 EUT OPERATING CONDITIONS	
	3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS	
4	TEST TYPES AND RESULTS	. 14
	4.1 OUTPUT POWER MEASUREMENT	
	4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	. 14
	4.1.2 TEST PROCEDURES	. 14
	4.1.3 TEST SETUP	. 15
	4.1.4 TEST RESULTS	. 16
	4.2 FREQUENCY STABILITY MEASUREMENT	. 22
	4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	. 22
	4.2.2 TEST PROCEDURE	. 22
	4.2.3 TEST SETUP	. 22
	4.2.4 TEST RESULTS	
	4.3 OCCUPIED BANDWIDTH MEASUREMENT	. 24
	4.3.1 TEST PROCEDURES	
	4.3.2 TEST SETUP	. 24
	4.3.3 TEST RESULTS	. 25
	4.4 BAND EDGE MEASUREMENT	. 28
	4.4.1 LIMITS OF BAND EDGE MEASUREMENT	. 28
	4.4.2 TEST SETUP	
	4.4.3 TEST PROCEDURES	. 28
	4.4.4 TEST RESULTS	. 29
	4.5 CONDUCTED SPURIOUS EMISSIONS	
	4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	
	4.5.2 TEST PROCEDURE	. 34
	4.5.3 TEST SETUP	
	4.5.4 TEST RESULTS	
	4.6 RADIATED EMISSION MEASUREMENT	
	4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	. 37
	4.6.2 TEST PROCEDURES	
	4.6.3 DEVIATION FROM TEST STANDARD	
	4.6.4 TEST SETUP	
	4.6.5 TEST RESULTS	
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	
6	INFORMATION ON THE TESTING LABORATORIES	. 48
7	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT E	
	THE LAB	. 49



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	
RF150625C24	Original release	Jul. 22, 2015

Report No.: RF150625C24 3 of 49 Report Format Version 5.0.0



1 CERTIFICATION

PRODUCT: UMTS/GSM Bar Phone

MODEL: C6745

BRAND: Kyocera

Kyocera Corporation c/o Kyocera Communications,

APPLICANT:

Inc.

TESTED: Jul. 02, 2015 ~ Jul. 07, 2015

TEST SAMPLE: Identical Prototype

STANDARDS: FCC PART 22, Subpart H

The above equipment (model: C6745) 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 :_______ , DATE : _____ Jul. 22, 2015

Ivonne Wu / Supervisor

APPROVED BY : , **DATE** : Jul. 22, 2015

Kay Wu / Supervisor



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		Meet the requirement of limit.			
2.1049	Occupied Bandwidth		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 -21.70dB at 35.40MHz.			

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	9kHz~30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
De diete de serie siene	200MHz ~1000MHz	2.95 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 03, 2016
HORN Antenna ETS-Lindgren	3117	00143293	Aug. 28, 2014	Aug. 27, 2015
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 06, 2015	Jul. 05, 2017
Preamplifier Agilent	310N	187226	Jun. 29, 2015	Jun. 28, 2016
Preamplifier Agilent	83017A	980116	Jan. 09, 2015	Jan. 08, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 17, 2014	Sep. 16, 2015
Power Sensor Anritsu	MA2411B	1207325	Sep. 17, 2014	Sep. 16, 2015
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 27, 2015	Jun. 26, 2016
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 27, 2015	Jun. 26, 2016
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201300640	Aug. 01, 2013	Jul. 31, 2015

NOTE: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HsinTien Chamber 1.
- 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 149147.
- 5. The IC Site Registration No. is IC 7450I-1.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	UMTS/GSM Bar Phone				
MODEL NO.	C6745				
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)				
	GSM/GPRS	GMSK			
MODULATION TYPE	EDGE	GMSK, 8PSK			
MODOLATION TITLE	WCDMA	BPSK			
	LTE	QPSK, 16QAM			
	GSM/GPRS/EDGE	824.2MHz ~ 848.8MHz			
	WCDMA	826.4MHz ~ 846.6MHz			
FREQUENCY RANGE	LTE 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz			
TREGOLINOT RANGE	LTE 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz			
	LTE 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz			
	LTE 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz			
	GSM	1174.36mW			
	EDGE	312.03mW			
	WCDMA	154.81mW			
MAX. ERP POWER	LTE 5 (Channel Bandwidth: 1.4MHz)	121.67mW			
	LTE 5 (Channel Bandwidth: 3MHz)	109.35mW			
	LTE 5 (Channel Bandwidth: 5MHz)	116.36mW			
	LTE 5 (Channel Bandwidth: 10MHz)	123.25mW			
	GSM	246KGXW			
	EDGE	245KG7W			
	WCDMA	4M18F9W			
EMISSION DESIGNATOR	LTE 5 (Channel Bandwidth: 1.4MHz)	1M09G7D			
	LTE 5 (Channel Bandwidth: 3MHz)	2M70G7D			
	LTE 5 (Channel Bandwidth: 5MHz)	4M50G7D			
	LTE 5 (Channel Bandwidth: 10MHz)	8M99W7D			
ANTENNA TYPE	Fixed Internal Antenna				
I/O PORTS	Refer to users' manual				
DATA CABLE	Refer to NOTE as below				
ACCESSORY DEVICES	CES Refer to NOTE as below				



NOTE:

1. The EUT contains following accessory devices.

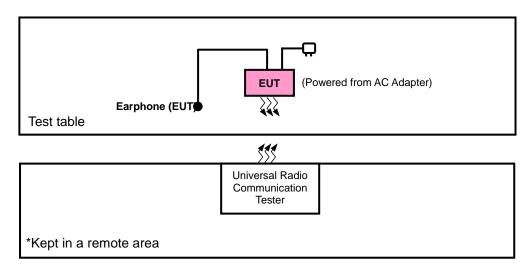
ITEM	BRAND	MODEL	SPECIFICATION			
Adapter	r KYOCERA SCP-47ADT I/P: 100-240Vac, 5 O/P: 5Vdc, 1.0A		I/P: 100-240Vac, 50/60Hz, 0.2A O/P: 5Vdc, 1.0A			
Battery	KYOCERA	SCP-64LBPS	3.8Vdc, 2310mAh			
Earphone	Galien Electron	HF-HBD5D	1.35m non-shielded cable w/o core			
USB Cable	KYOCERA	SCP-17SDC	1.0m shielded cable w/o core			

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.

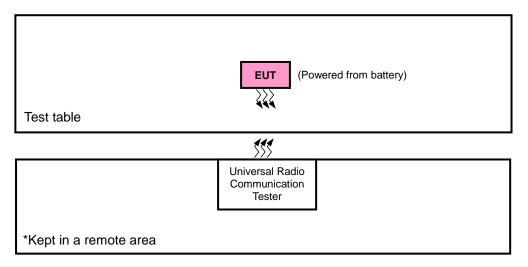


3.2 CONFIGURATION OF SYSTEM UNDER TEST

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.



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

GSM MODE

EUT CONFIGURE 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, EDGE		
-	RADIATED EMISSION	128 to 251	189	GSM, EDGE		

WCDMA MODE

TODALA MODE						
EUT CONFIGURE 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

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
		20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 5 RB Offset	
	EDD	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 14 RB Offset	
-	ERP	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset	
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset	
		20407 to 20643	20525	1.4MHz	QPSK	1 RB / 5 RB Offset	
	FREQUENCY	20415 to 20635	20525	3MHz	QPSK	1 RB / 14 RB Offset	
-	STABILITY	20425 to 20625	20525	5MHz	QPSK	1 RB / 24 RB Offset	
		20450 to 20600	20525	10MHz	QPSK	1 RB / 49 RB Offset	
		20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset	
	OCCUPIED	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset	
-	BANDWIDTH	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset	
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset	
	BAND EDGE		20407	20407	1.4MHz	QPSK	1 RB / 0 RB Offset
		20407 to 20643		1.411112	QI OIL	6 RB / 0 RB Offset	
			20643	1.4MHz	QPSK	1 RB / 5 RB Offset	
						6 RB / 0 RB Offset	
			20415	3MHz	QPSK	1 RB / 0 RB Offset	
		20445 +- 20025				15 RB / 0 RB Offset	
		20415 to 20635	20635	3MHz	QPSK	1 RB / 14 RB Offset	
						15 RB / 0 RB Offset	
-			20425 5MI		ODCK	1 RB / 0 RB Offset	
		004054 00000		5MHz	QPSK	25 RB / 0 RB Offset	
		20425 to 20626			QPSK	1 RB / 24 RB Offset	
			20600	5MHz		25 RB / 0 RB Offset	
			00450	40141-	0001	1 RB / 0 RB Offset	
		004504 00000	20450	10MHz	QPSK	50 RB / 0 RB Offset	
		20450 to 20600		40141	0.001/	1 RB / 49 RB Offset	
			20600	10MHz	QPSK	50 RB / 0 RB Offset	
		20407 to 20643	20525	1.4MHz	QPSK	1 RB / 2 RB Offset	
	CONDUCTED	20415 to 20635	20525	3MHz	QPSK	1 RB / 7 RB Offset	
	EMISSION	20425 to 20625	20525	5MHz	QPSK	1 RB / 12 RB Offset	
	DADIATES	20450 to 20600	20525	10MHz	QPSK	1 RB / 24 RB Offset	
-	RADIATED EMISSION	20450 to 20600	20525	10MHz	QPSK	1 RB / 49 RB Offset	

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



TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	26deg. C, 58%RH	3.8Vdc	Charles Hsiao
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Howard Kao
CONDUCTED EMISSION	26deg. C, 58%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Charles Hsiao / Harry Hsueh



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 = Output power level of S.G TX cable loss + 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 power = E.I.R.P power 2.15dBi.

CONDUCTED POWER MEASUREMENT:

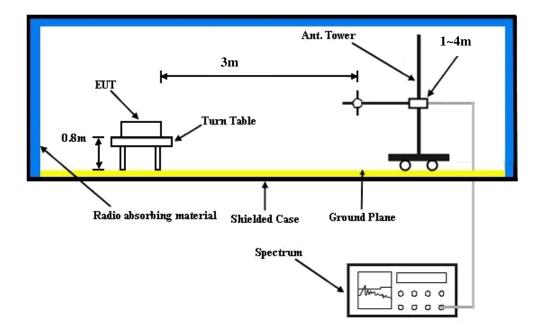
The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Report No.: RF150625C24 14 of 49 Report Format Version 5.0.0

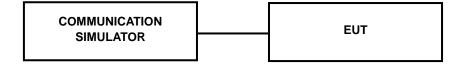


4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



Report No.: RF150625C24 15 of 49 Report Format Version 5.0.0



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM (1 Uplink)	33.26	33.31	33.37
GPRS 8 (GMSK, 1 slot)	33.24	33.29	33.35
GPRS 10 (GMSK, 2 slot)	30.46	30.51	30.57
GPRS 11 (GMSK, 3 slot)	28.30	28.35	28.41
GPRS 12 (GMSK, 4 slot)	27.00	27.05	27.11
EDGE 8 (8PSK, 1 Uplink)	27.27	27.32	27.38
EDGE 10 (8PSK, 2 Uplink)	27.14	27.19	27.25

Band		WCDMA V	
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.31	24.38	24.36
HSDPA Subtest-1	23.24	23.31	23.29
HSDPA Subtest-2	23.35	23.42	23.40
HSDPA Subtest-3	22.99	23.06	23.04
HSDPA Subtest-4	22.94	23.01	22.99
HSUPA Subtest-1	22.99	23.06	23.04
HSUPA Subtest-2	21.69	21.74	21.73
HSUPA Subtest-3	22.44	22.46	22.40
HSUPA Subtest-4	21.66	21.74	21.66
HSUPA Subtest-5	23.48	23.55	23.53



				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643	3GPP MPR	Low CH 20407	Mid CH 20525	High CH 20643	3GPP MPR
BW	Oize	Onset	824.7 MHz	836.5 MHz	848.3 MHz	(dB)	824.7 MHz	836.5 MHz	848.3 MHz	(dB)
	1	0	23.58	23.69	23.62	0	22.55	22.66	22.59	1
	1	2	23.55	23.66	23.59	0	22.52	22.63	22.56	1
	1	5	23.61	23.72	23.65	0	22.58	22.69	22.62	1
5 / 1.4M	3	0	22.54	22.65	22.58	0	21.51	21.62	21.55	1
	3	1	22.52	22.63	22.56	0	21.49	21.60	21.53	1
	3	3	22.63	22.74	22.67	0	21.60	21.71	21.64	1
	6	0	22.66	22.77	22.70	1	21.63	21.74	21.67	2

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 20415 825.5 MHz	Mid CH 20525 836.5 MHz	High CH 20635 847.5 MHz	3GPP MPR (dB)	Low CH 20415 825.5 MHz	Mid CH 20525 836.5 MHz	High CH 20635 847.5 MHz	3GPP MPR (dB)
	1	0	23.71	23.82	23.75	0	22.68	22.79	22.72	1
	1	7	23.68	23.79	23.72	0	22.65	22.76	22.69	1
	1	14	23.74	23.85	23.78	0	22.71	22.82	22.75	1
5 / 3M	8	0	22.67	22.78	22.71	1	21.64	21.75	21.68	2
	8	3	22.65	22.76	22.69	1	21.62	21.73	21.66	2
	8	7	22.76	22.87	22.80	1	21.73	21.84	21.77	2
	15	0	22.79	22.90	22.83	1	21.76	21.87	21.80	2

	_			QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625	3GPP MPR	Low CH 20425	Mid CH 20525	High CH 20625	3GPP MPR
			826.5 MHz	836.5 MHz	846.5 MHz	(dB)	826.5 MHz	836.5 MHz	846.5 MHz	(dB)
	1	0	23.79	23.90	23.83	0	22.76	22.87	22.80	1
	1	12	23.76	23.87	23.80	0	22.73	22.84	22.77	1
	1	24	23.82	23.93	23.86	0	22.79	22.90	22.83	1
5 / 5M	12	0	22.75	22.86	22.79	1	21.72	21.83	21.76	2
	12	6	22.73	22.84	22.77	1	21.70	21.81	21.74	2
	12	13	22.84	22.95	22.88	1	21.81	21.92	21.85	2
	25	0	22.87	22.98	22.91	1	21.84	21.95	21.88	2

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600	3GPP MPR	Low CH 20450	Mid CH 20525	High CH 20600	3GPP MPR
			829.0 MHz	836.5 MHz	844.0 MHz	(dB)	829.0 MHz	836.5 MHz	844.0 MHz	(dB)
	1	0	23.90	24.01	23.94	0	22.87	22.98	22.91	1
	1	24	23.87	23.98	23.91	0	22.84	22.95	22.88	1
	1	49	23.93	24.04	23.97	0	22.90	23.01	22.94	1
5 / 10M	25	0	22.86	22.97	22.90	1	21.83	21.94	21.87	2
	25	12	22.84	22.95	22.88	1	21.81	21.92	21.85	2
	25	25	22.95	23.06	22.99	1	21.92	22.03	21.96	2
	50	0	22.98	23.09	23.02	1	21.95	22.06	21.99	2



ERP POWER (dBm)

	GSM										
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)				
	128	824.2	1.64	31.208	30.70	1174.36	Н				
	189	836.4	1.53	31.3	30.68	1169.50	Н				
Y	251	848.8	1.59	31.222	30.66	1164.66	Н				
ĭ	128	824.2	-3.37	31.504	25.98	396.64	V				
	189	836.4	-3.59	31.117	25.38	344.91	V				
	251	848.8	-4.44	31.922	25.33	341.35	V				

	EDGE											
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)					
	128	824.2	-4.51	31.208	24.55	284.97	Н					
	189	836.4	-4.29	31.3	24.86	306.20	Н					
Y	251	848.8	-4.13	31.222	24.94	312.03	Н					
Ť	128	824.2	-9.61	31.504	19.74	94.28	V					
	189	836.4	-9.61	31.117	19.36	86.24	V					
	251	848.8	-10.11	31.922	19.66	92.51	V					

	WCDMA											
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)					
	4132	826.4	-7.16	31.208	21.90	154.81	Н					
	4182	836.4	-8.11	31.3	21.04	127.06	Н					
Y	4233	846.6	-7.67	31.222	21.40	138.10	Н					
ĭ	4132	826.4	-13.09	31.504	16.26	42.31	V					
	4182	836.4	-12.02	31.117	16.95	49.51	V					
	4233	846.6	-13.64	31.922	16.13	41.04	V					



	LTE Band 5										
	Channel Bandwidth: 1.4MHz / QPSK										
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)				
	20407	824.7	-8.43	31.208	20.63	115.56	Н				
	20525	836.5	-8.97	31.3	20.18	104.23	Н				
Y	20643	848.3	-8.22	31.222	20.85	121.67	Н				
Ĭ	20407	824.7	-13.98	31.504	15.37	34.47	V				
	20525	836.5	-13.01	31.117	15.96	39.42	V				
	20643	848.3	-14.52	31.922	15.25	33.51	V				

	LTE Band 5										
	Channel Bandwidth: 1.4MHz / 16QAM										
Plane	ne Channel Frequency (MHz) LVL Correction Factor(dB) ERP(dBm) ERP(mW) Polari										
	20407	824.7	-9.41	31.208	19.65	92.21	Н				
	20525	836.5	-9.91	31.3	19.24	83.95	Н				
Y	20643	848.3	-10.01	31.222	19.06	80.57	Н				
I	20407	824.7	-15.26	31.504	14.09	25.67	V				
	20525	836.5	-14.97	31.117	14.00	25.10	V				
	20643	848.3	-15.33	31.922	14.44	27.81	V				

	LTE Band 5											
	Channel Bandwidth: 3MHz / QPSK											
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)					
	20415	825.5	-8.67	31.208	20.39	109.35	Н					
	20525	836.5	-9.02	31.3	20.13	103.04	Н					
V	20635	847.5	-9.00	31.222	20.07	101.67	Н					
T	20415	825.5	-13.94	31.504	15.41	34.79	V					
	20525	836.5	-13.96	31.117	15.01	31.67	V					
	20635	847.5	-14.14	31.922	15.63	36.58	V					



	LTE Band 5										
	Channel Bandwidth: 3MHz / 16QAM										
Plane	ane Channel Frequency (MHz) LVL Correction Factor(dB) ERP(dBm) ERP(mW) Polarizati (H/V)										
	20415	825.5	-9.69	31.208	19.37	86.46	Н				
	20525	836.5	-9.32	31.3	19.83	96.16	Н				
Y	20635	847.5	-9.95	31.222	19.12	81.70	Н				
Ī	20415	825.5	-15.04	31.504	14.31	27.00	V				
	20525	836.5	-14.11	31.117	14.86	30.60	V				
	20635	847.5	-15.40	31.922	14.37	27.37	V				

	LTE Band 5													
Channel Bandwidth: 5MHz / QPSK														
Plane Channel Plane Plan			Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)								
	20425	826.5	-8.40	31.208	20.66	116.36	Н							
	20525	836.5	-8.84	31.3	20.31	107.40	Н							
V	20625	846.5	-8.92	31.222	20.15	103.56	Н							
I	20425	826.5	-13.69	31.504	15.66	36.85	V							
	20525	836.5	-13.04	31.117	15.93	39.15	V							
	20625	846.5	-13.91	31.922	15.86	38.57	V							

	LTE Band 5													
Channel Bandwidth: 5MHz / 16QAM														
Plane	Plane Channel Frequency (MHz) LVL Correction Factor(dB)		ERP(dBm)	ERP(mW)	Polarization (H/V)									
	20425	826.5	-9.76	31.208	19.30	85.07	Н							
	20525	836.5	-10.10	31.3	19.05	80.35	Н							
v	20625	846.5	-9.82	31.222	19.25	84.18	Н							
T	20425	826.5	-14.98	31.504	14.37	27.38	V							
	20525	836.5	-14.09	31.117	14.88	30.74	V							
	20625	846.5	-15.13	31.922	14.64	29.12	V							



	LTE Band 5													
	Channel Bandwidth: 10MHz / QPSK													
Plane	Plane Channel Frequer (MHz		LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)							
	20450	829.0	-8.15	31.208	20.91	123.25	Н							
	20525	836.5	-9.15	31.3	20.00	100.00	Н							
	20600	844.0	-8.39	31.222	20.68	117.00	Н							
Y	20450	829.0	-14.19	31.504	15.16	32.84	V							
	20525	836.5	-13.74	31.117	15.23	33.32	V							
	20600	844.0	-14.73	31.922	15.04	31.93	V							

	LTE Band 5													
	Channel Bandwidth: 10MHz / 16QAM													
Plane	Plane Channel Fr		LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)							
	20450	829.0	-9.90	31.208	19.16	82.38	Н							
	20525	836.5	-10.09	31.3	19.06	80.54	Н							
Y	20600	844.0	-9.58	31.222	19.49	88.96	Н							
T .	20450	829.0	-15.03	31.504	14.32	27.06	V							
	20525	836.5	-14.05	31.117	14.92	31.02	V							
	20600	844.0	-15.73	31.922	14.04	25.36	V							



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

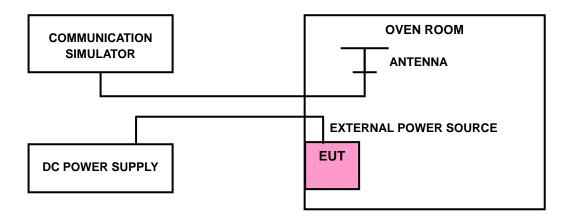
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 TEST PROCEDURE

- 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 ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

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

4.2.3 TEST SETUP



Report No.: RF150625C24 22 of 49 Report Format Version 5.0.0



4.2.4 TEST RESULTS

FREQUENCY ERROR vs. VOLTAGE

		FREQUENCY ERROR (ppm)								
VOLTAGE (Volts)		EDGE	WCDMA		LTE B		LIMIT (ppm)			
	GSM			1.4MHz	3MHz	5MHz	10MHz			
3.8	0.00002	0.00285	0.00286	0.0021	0.0032	0.0012	0.0030	2.5		
3.4	0.00401	0.00375	0.00386	0.0004	0.0005	0.0042	0.0045	2.5		
4.35	0.00057	0.00121	0.00164	0.0046	0.0028	0.0030	0.0030	2.5		

NOTE: The applicant defined the normal working voltage of the battery is from 3.4Vdc to 4.35Vdc.

FREQUENCY ERROR vs. TEMPERATURE

TEMP. (℃)	GSM	EDGE	WODMA		LTE B		LIMIT (ppm)	
	GSIVI	EDGE	WCDMA	1.4MHz	3MHz	5MHz	10MHz	
-30	0.0047	0.0032	0.0017	0.00395	0.00340	0.00430	0.00206	2.5
-20	0.0028	0.0046	0.0002	0.00351	0.00275	0.00409	0.00086	2.5
-10	0.0037	0.0020	0.0008	0.00092	0.00007	0.00461	0.00096	2.5
0	0.0011	0.0029	0.0024	0.00454	0.00175	0.00141	0.00129	2.5
10	0.0044	0.0030	0.0039	0.00184	0.00085	0.00029	0.00330	2.5
20	-0.0037	-0.0030	-0.0046	-0.00280	-0.00135	-0.00090	-0.00001	2.5
30	-0.0026	-0.0025	-0.0043	-0.00389	-0.00006	-0.00137	-0.00024	2.5
40	-0.0024	-0.0004	-0.0037	-0.00153	-0.00421	-0.00295	-0.00163	2.5
50	-0.0002	-0.0014	-0.0016	-0.00319	-0.00147	-0.00080	-0.00280	2.5

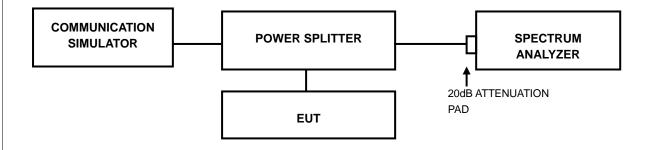


4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

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

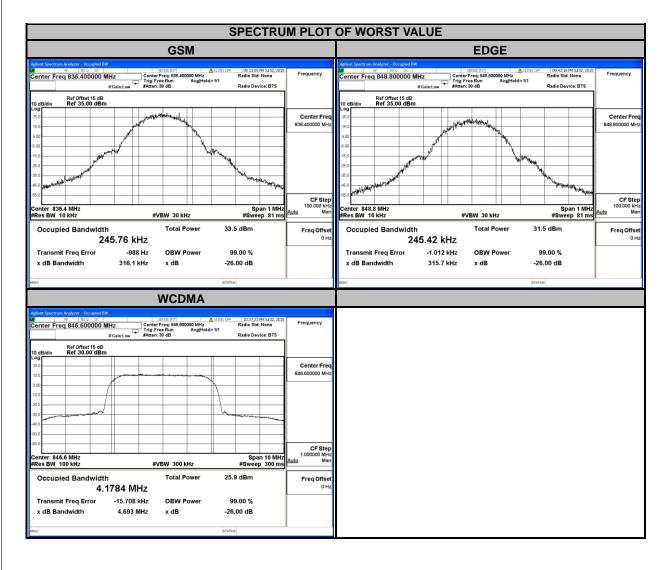
4.3.2 TEST SETUP





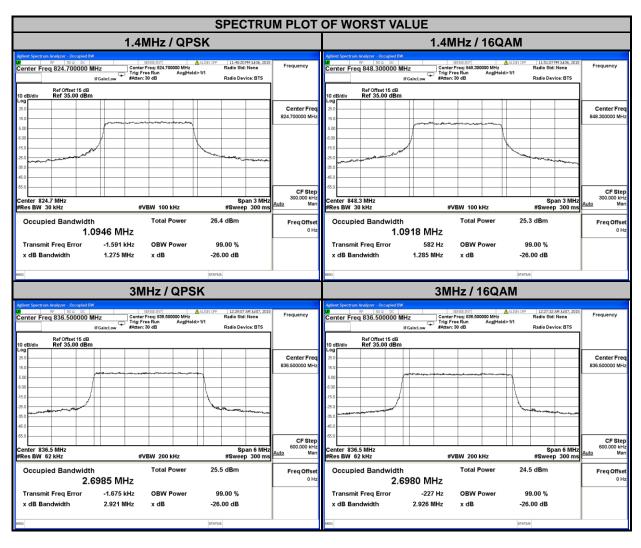
4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)		CUPIED DTH (kHz)	CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
	, ,	GSM	EDGE		, ,	WCDMA
128	824.2	244.91	244.73	4132	826.4	4.1688
189	836.4	245.76	243.47	4182	836.4	4.1765
251	848.8	245.33	245.42	4233	846.6	4.1784
CHANNEL	FREQUENCY	26dB BANDWIDTH (kHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)
	(MHz)	GSM	EDGE		(MHz)	WCDMA
128	824.2	311.80	323.60	4132	826.4	4.687
189	836.4	316.10	313.80	4182	836.4	4.692
251	848.8	321.60	315.70	4233	846.6	4.693



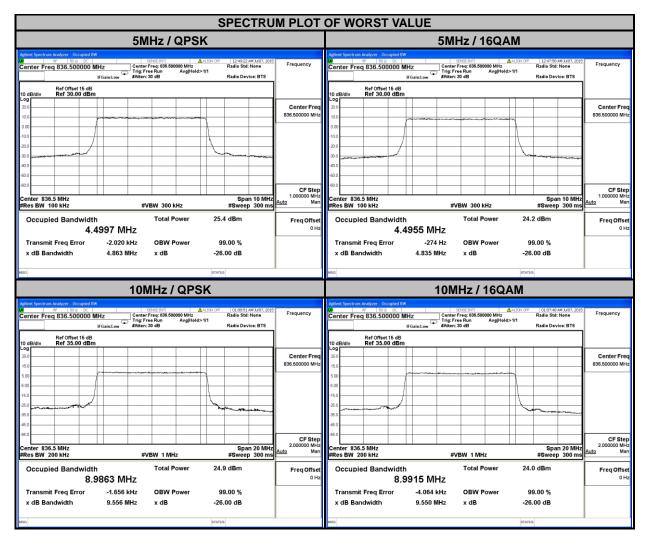


	LTE BAND 5												
C	CHANNEL BANI	OWIDTH: 1.4M	Hz	(CHANNEL BAN	DWIDTH: 3MI	Нz						
CHANNEL	FREQUENCY		CUPIED OTH (MHz)	CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)							
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM						
20407	824.7	1.0946	1.0906	20415	825.5	2.6971	2.6968						
20525	836.5	1.0932	1.0913	20525	836.5	2.6985	2.6980						
20643	848.3	1.0921	1.0918	20635	847.5	2.6982	2.6976						
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)							
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM						
20407	824.7	1.275	1.268	20415	825.5	2.922	2.934						
20525	836.5	1.281	1.269	20525	836.5	2.921	2.926						
20643	848.3	1.302	1.285	20635	847.5	2.911	2.930						





	LTE BAND 5													
	CHANNEL BAN	IDWIDTH: 5MI	ŀΙz	C	HANNEL BAN	OWIDTH: 10M	Hz							
CHANNEL	FREQUENCY		CUPIED OTH (MHz)	CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)								
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM							
20425	826.5	4.4936	4.4947	20450	829.0	8.9654	8.9735							
20525	836.5	4.4997	4.4955	20525	836.5	8.9863	8.9915							
20625	846.5	4.4953	4.4918	20600	844.0	8.9633	8.9637							
CHANNEL	FREQUENCY	26dB BANDWIDTH (MH		CHANNEL	FREQUENCY	26dB BAND	WIDTH (MHz)							
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM							
20425	826.5	4.852	4.839	20450	829.0	9.513	9.547							
20525	836.5	4.863	4.835	20525	836.5	9.556	9.550							
20625	846.5	4.841	4.824	20600	844.0	9.534	9.513							



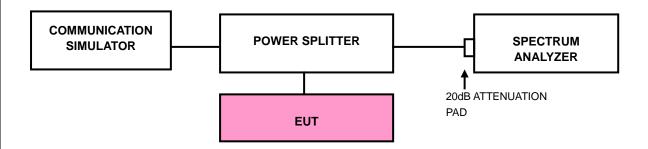


4.4 BAND EDGE MEASUREMENT

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

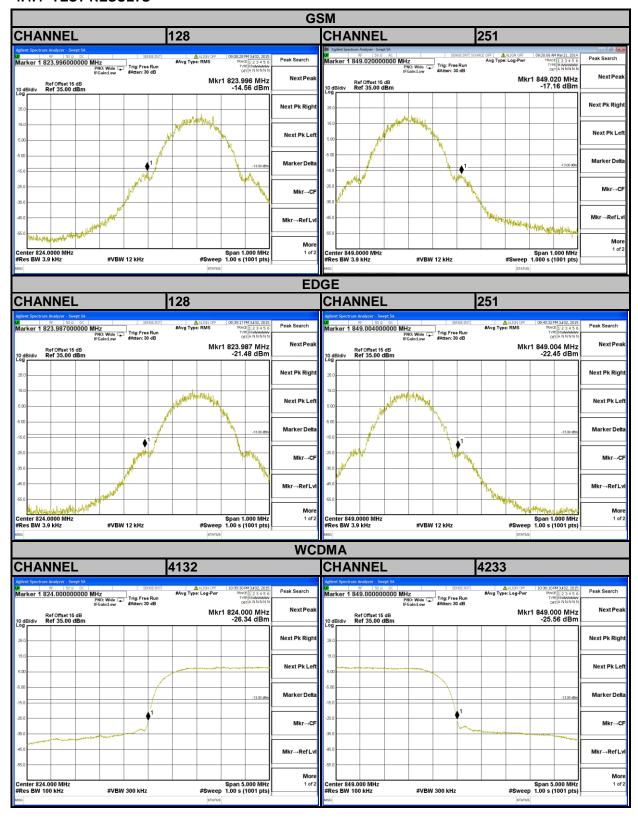


4.4.3 TEST PROCEDURES

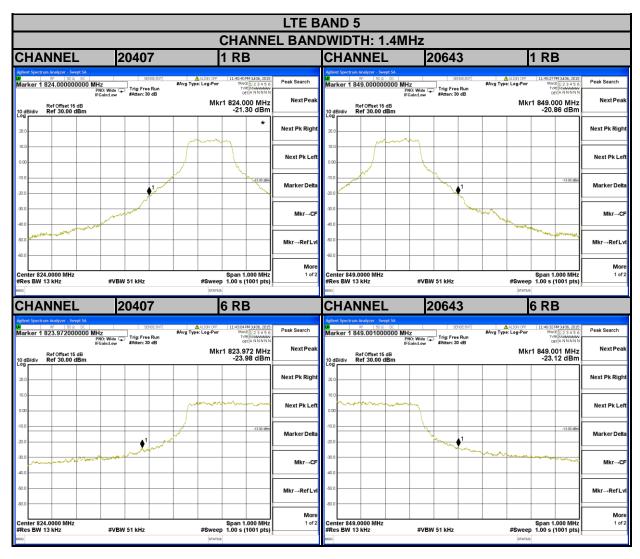
- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3.9kHz and VB of the spectrum is 12kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Channel Bandwidth 1.4MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 3MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 5MHz / 10MHz).
- g. Record the max trace plot into the test report.



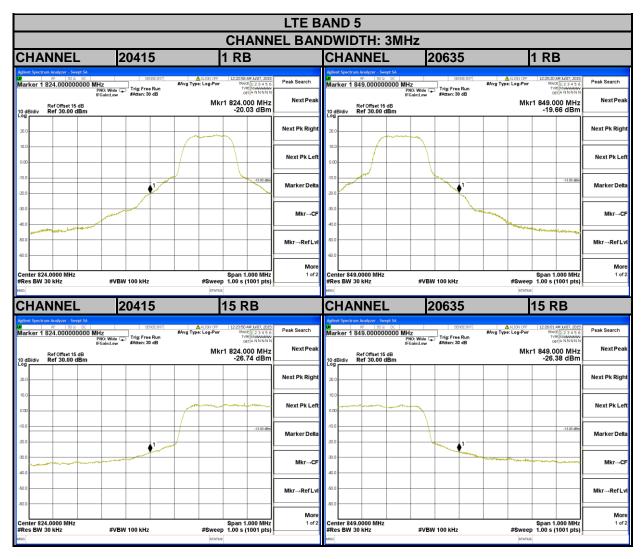
4.4.4 TEST RESULTS



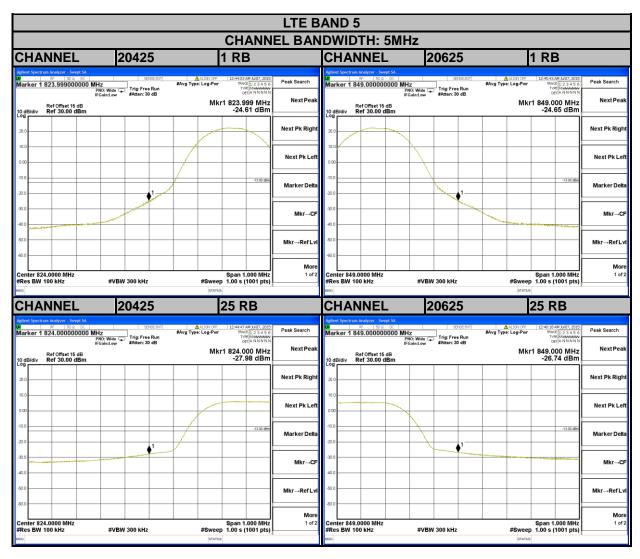




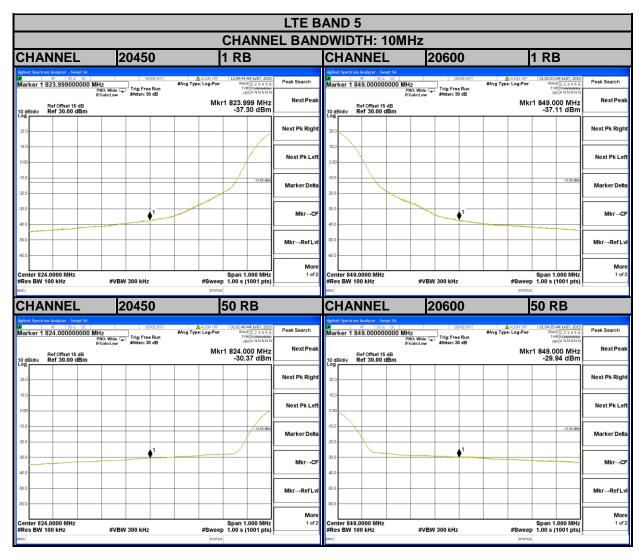














4.5 CONDUCTED SPURIOUS EMISSIONS

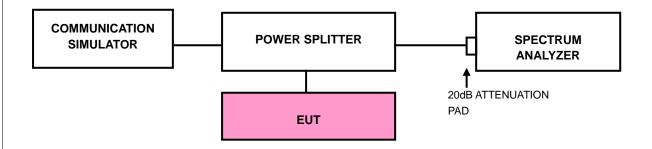
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 is 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.

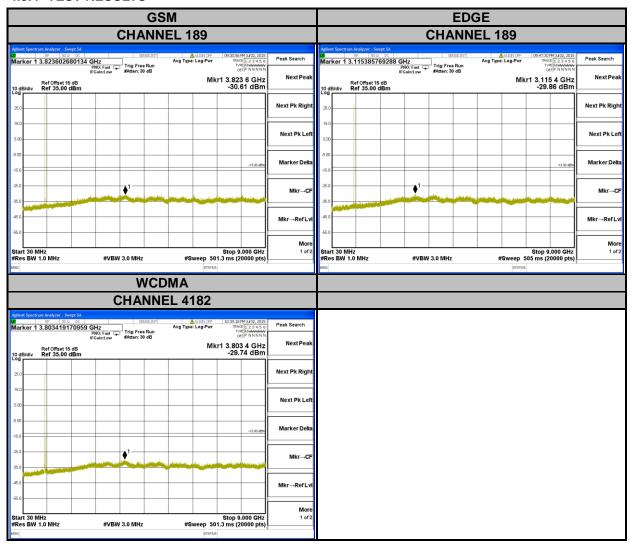
4.5.3 TEST SETUP



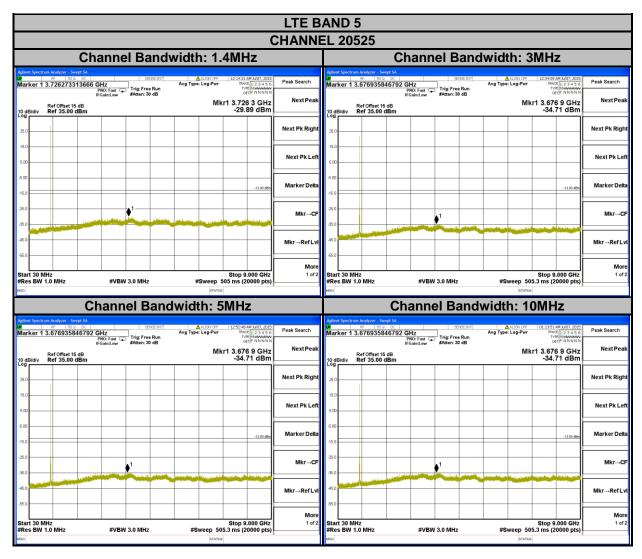
Report No.: RF150625C24 34 of 49 Report Format Version 5.0.0



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 is 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. 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.

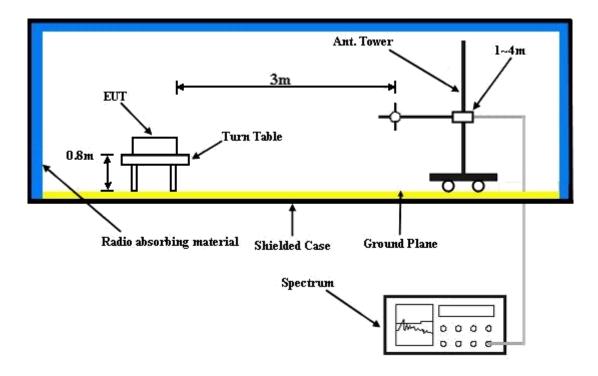
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.6.3 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).

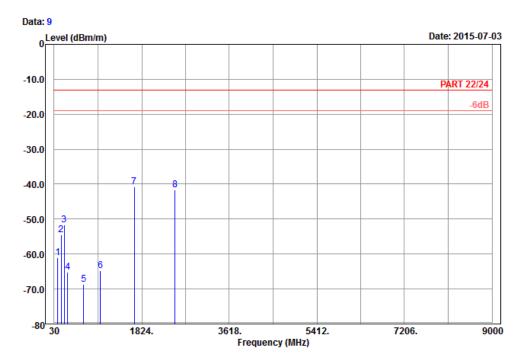


4.6.5 TEST RESULTS

GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

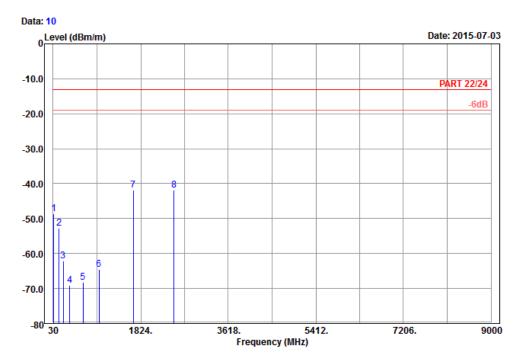
Condition: PART 22/24 3m Horizontal Remark : GSM 850_Link_CH189

Tested by: Charles Hsiao

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
_							
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	101.28	-61.07	-51.07	-13.00	-48.07	-10.00	Peak
2	170.40	-54.58	-47.98	-13.00	-41.58	-6.60	Peak
3	237.09	-51.57	-45.88	-13.00	-38.57	-5.69	Peak
4	303.50	-65.13	-59.22	-13.00	-52.13	-5.91	Peak
5	636.70	-68.62	-68.64	-13.00	-55.62	0.02	Peak
6	978.30	-64.74	-69.94	-13.00	-51.74	5.20	Peak
7 pp	1672.80	-40.77	-48.68	-13.00	-27.77	7.91	Peak
8	2509.20	-41.63	-52.91	-13.00	-28.63	11.28	Peak







Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : GSM 850_Link_CH189

Tested by: Charles Hsiao

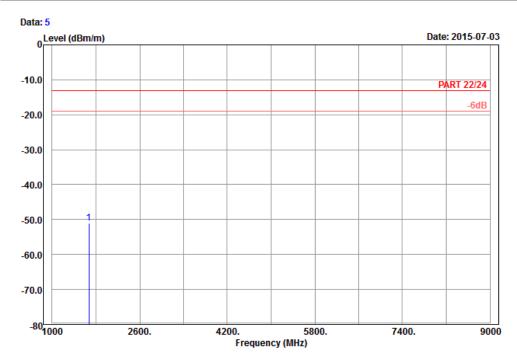
	Freq	Level	Read Level	Limit Line		Factor	Remark
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	37.83	-48.65	-38.68	-13.00	-35.65	-9.97	Peak
2	153.39	-52.79	-44.93	-13.00	-39.79	-7.86	Peak
3	234.12	-62.23	-56.50	-13.00	-49.23	-5.73	Peak
4	366.50	-69.01	-64.51	-13.00	-56.01	-4.50	Peak
5	645.10	-68.30	-68.22	-13.00	-55.30	-0.08	Peak
6	967.80	-64.52	-69.69	-13.00	-51.52	5.17	Peak
7 pp	1672.80	-41.75	-49.66	-13.00	-28.75	7.91	Peak
8	2509.20	-41.89	-53.17	-13.00	-28.89	11.28	Peak



EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal Remark : EDGE 850_Link_CH189

Tested by: Charles Hsiao

Plane : Z

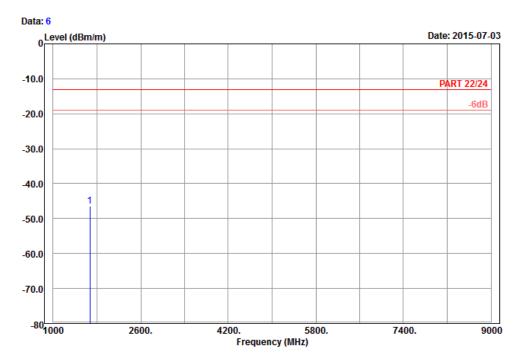
Read Limit Over
Freq Level Level Line Limit Factor Remark

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

1 pp 1672.80 -51.08 -58.99 -13.00 -38.08 7.91 Peak







Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : EDGE 850_Link_CH189

Tested by: Charles Hsiao

Plane : Z

Read Limit Over

Freq Level Level Line Limit Factor Remark

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

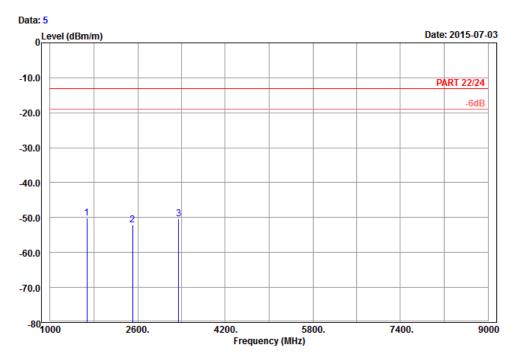
1 pp 1672.80 -46.42 -54.33 -13.00 -33.42 7.91 Peak



WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal

 ${\tt Remark} \quad : \; {\tt Band} \; \; {\tt V_Link_CH4182}$

Tested by: Harry Hsueh

Plane : Z

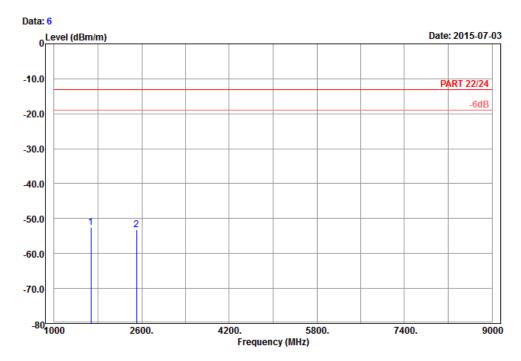
Read Limit Over
Freq Level Level Line Limit Factor Remark

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

1 pp 1672.80 -50.18 -58.09 -13.00 -37.18 7.91 Peak 2 2509.20 -52.16 -63.44 -13.00 -39.16 11.28 Peak 3 3345.60 -50.28 -64.73 -13.00 -37.28 14.45 Peak







Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : Band V_Link_CH4182

Tested by: Harry Hsueh

Plane : Z

Read Limit Over
Freq Level Level Line Limit Factor Remark

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

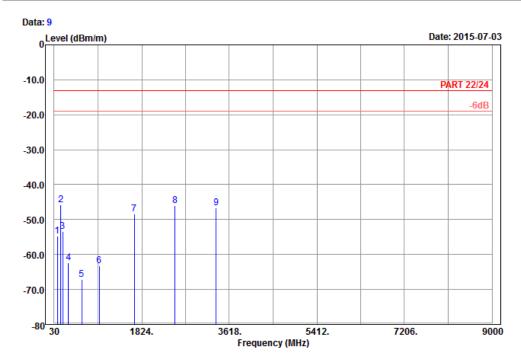
1 pp 1672.80 -52.64 -60.55 -13.00 -39.64 7.91 Peak 2 2509.20 -53.11 -64.39 -13.00 -40.11 11.28 Peak



LTE BAND 5 CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal

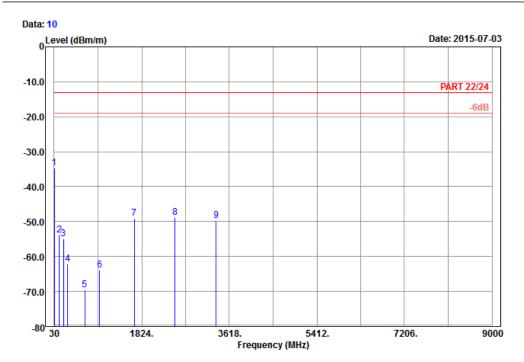
Remark : LTE_Band 5_QPSK(1,49)_10M_CH20525

Tested by: Harry Hsueh

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	95.88	-54.62	-44.28	-13.00	-41.62	-10.34	Peak
2 pp	163.92	-45.81	-38.53	-13.00	-32.81	-7.28	Peak
3	205.50	-53.41	-47.30	-13.00	-40.41	-6.11	Peak
4	320.30	-62.35	-56.63	-13.00	-49.35	-5.72	Peak
5	594.00	-67.04	-67.19	-13.00	-54.04	0.15	Peak
6	958.00	-63.27	-68.40	-13.00	-50.27	5.13	Peak
7	1673.00	-48.43	-56.34	-13.00	-35.43	7.91	Peak
8	2509.50	-46.08	-57.36	-13.00	-33.08	11.28	Peak
9	3346.00	-46.73	-61.18	-13.00	-33.73	14.45	Peak







Site : 966 chamber 1

Condition: PART 22/24 3m Vertical

Remark : LTE_Band 5_QPSK(1,49)_10M_CH20525

Tested by: Harry Hsueh

		Read	Limit	0ver		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
35.40	-34.70	-23.98	-13.00	-21.70	-10.72	Peak
138.81	-53.76	-46.07	-13.00	-40.76	-7.69	Peak
224.94	-54.99	-49.14	-13.00	-41.99	-5.85	Peak
304.90	-62.11	-56.21	-13.00	-49.11	-5.90	Peak
658.40	-69.53	-69.35	-13.00	-56.53	-0.18	Peak
964.30	-63.76	-68.91	-13.00	-50.76	5.15	Peak
1673.00	-49.00	-56.91	-13.00	-36.00	7.91	Peak
2509.50	-48.84	-60.12	-13.00	-35.84	11.28	Peak
3346.00	-49.66	-64.11	-13.00	-36.66	14.45	Peak
	35.40 138.81 224.94 304.90 658.40 964.30 1673.00 2509.50	MHz dBm/m 35.40 -34.70 138.81 -53.76 224.94 -54.99 304.90 -62.11 658.40 -69.53 964.30 -63.76 1673.00 -49.00 2509.50 -48.84	Freq Level Level MHz dBm/m dBm 35.40 -34.70 -23.98 138.81 -53.76 -46.07 224.94 -54.99 -49.14 304.90 -62.11 -56.21 658.40 -69.53 -69.35 964.30 -63.76 -68.91 1673.00 -49.00 -56.91 2509.50 -48.84 -60.12	Freq Level Level Line MHz dBm/m dBm dBm/m 35.40 -34.70 -23.98 -13.00 138.81 -53.76 -46.07 -13.00 224.94 -54.99 -49.14 -13.00 304.90 -62.11 -56.21 -13.00 658.40 -69.53 -69.35 -13.00 964.30 -63.76 -68.91 -13.00 1673.00 -49.00 -56.91 -13.00 2509.50 -48.84 -60.12 -13.00	Freq Level Level Line Limit MHz dBm/m dBm dBm/m dB 35.40 -34.70 -23.98 -13.00 -21.70 138.81 -53.76 -46.07 -13.00 -40.76 224.94 -54.99 -49.14 -13.00 -41.99 304.90 -62.11 -56.21 -13.00 -49.11 658.40 -69.53 -69.35 -13.00 -56.53 964.30 -63.76 -68.91 -13.00 -50.76 1673.00 -49.00 -56.91 -13.00 -36.00 2509.50 -48.84 -60.12 -13.00 -35.84	Freq Level Level Line Limit Factor MHz dBm/m dBm/m dB dBm/m dB dB/m 35.40 -34.70 -23.98 -13.00 -21.70 -10.72 138.81 -53.76 -46.07 -13.00 -40.76 -7.69 224.94 -54.99 -49.14 -13.00 -41.99 -5.85 304.90 -62.11 -56.21 -13.00 -49.11 -5.90 658.40 -69.53 -69.35 -13.00 -56.53 -0.18 964.30 -63.76 -68.91 -13.00 -50.76 5.15 1673.00 -49.00 -56.91 -13.00 -36.00 7.91 2509.50 -48.84 -60.12 -13.00 -35.84 11.28



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



6 INFORMATION ON THE TESTING LABORATORIES

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

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

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

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety 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.

Report No.: RF150625C24 48 of 49 Report Format Version 5.0.0



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

Report No.: RF150625C24 49 of 49 Report Format Version 5.0.0