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# FCC TEST REPORT (PART 24)

**REPORT NO.:** RF131213C05-1

**MODEL NO.:** T00D

**FCC ID:** MSQT00D

**RECEIVED:** Dec. 13, 2013

**TESTED:** Dec. 21, 2013 ~ Feb. 21, 2014

**ISSUED:** Feb. 27, 2014

**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
RF131213C05-1	Original release	Feb. 27, 2014



# 1 CERTIFICATION

**PRODUCT:** PadFone X

**MODEL:** T00D

**BRAND:** ASUS

**APPLICANT:** ASUSTek COMPUTER INC.

**TESTED:** Dec. 21, 2013 ~ Feb. 21, 2014

**TEST SAMPLE:** Identical Prototype

**STANDARDS:** FCC Part 24, Subpart E

The above equipment (model: T00D) 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** : Feb. 27, 2014  
Vera Huang / Specialist

**APPROVED BY** : Sam chen , **DATE** : Feb. 27, 2014  
Sam Chen / Senior Project Engineer

## 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 -5.67dB 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.



## 2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 15, 2013	Apr. 14, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Nov. 01, 2013	Oct. 31, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Loop Antenna	3127-836	00099258	Aug. 09, 2013	Aug. 08, 2014
Preamplifier EMCI	8447D	2944A10631	Aug. 30, 2013	Aug. 29, 2014
Preamplifier EMCI	8449B	3008A1960	Aug. 30, 2013	Aug. 29, 2014
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Worken	RG-213	NA	Nov. 07, 2013	Nov. 06, 2014
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Jul. 18, 2013	Jul. 17, 2014
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102544	Sep. 05, 2012	Sep. 04, 2014
Radio Communication Analyzer	MT8820C	6201300640	Aug. 01, 2013	Jul. 31, 2014

- 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.



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	PadFone X	
<b>MODEL NO.</b>	T00D	
<b>POWER SUPPLY</b>	5Vdc (adapter or host equipment) 3.8Vdc (battery)	
<b>MODULATION TYPE</b>	<b>GSM/GPRS</b>	GMSK
	<b>EDGE</b>	8PSK
	<b>WCDMA</b>	BPSK
	<b>LTE</b>	QPSK, 16QAM
<b>FREQUENCY RANGE</b>	<b>GSM/GPRS/EDGE</b>	1850.2MHz ~ 1909.8MHz
	<b>WCDMA</b>	1852.4MHz ~ 1907.6MHz
	<b>LTE (Channel Bandwidth: 5MHz)</b>	1852.5MHz ~ 1907.5MHz
	<b>LTE (Channel Bandwidth: 10MHz)</b>	1855MHz ~ 1905MHz
<b>MAX. EIRP POWER</b>	<b>GSM</b>	1244.80mW
	<b>EDGE</b>	563.77mW
	<b>WCDMA</b>	234.48mW
	<b>LTE (Channel Bandwidth: 5MHz)</b>	242.77mW
	<b>LTE (Channel Bandwidth: 10MHz)</b>	226.57mW
<b>EMISSION DESIGNATOR</b>	<b>GSM</b>	244KGXW
	<b>EDGE</b>	246KG7W
	<b>WCDMA</b>	4M17F9W
	<b>LTE (Channel Bandwidth: 5MHz)</b>	4M49G7D
	<b>LTE (Channel Bandwidth: 10MHz)</b>	8M92G7D
<b>MULTI-SLOTS CLASS</b>	10	
<b>WCDMA RELEASE VERSION</b>	8	
<b>LTE CATEGORY</b>	3	
<b>ANTENNA TYPE</b>	Fixed Internal Antenna	
<b>I/O PORTS</b>	Refer to users' manual	
<b>DATA CABLE</b>	Refer to NOTE as below	
<b>ACCESSORY DEVICES</b>	Refer to NOTE as below	



**NOTE:**

1. The EUT has following accessories.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter 1	ASUS	AD897320	I/P: 100-240Vac, 50-60Hz, 0.3A O/P: 5Vdc, 2A
AC Adapter 2	ASUS	W12-010N3A	I/P: 100-240Vac, 50-60Hz, 0.3A O/P: 5Vdc, 2A
Li-ion Battery	ASUS	C11P1322	Rating: 3.8Vdc, 8.7Wh
Earphone 1	ASUS	OBOPRO2	1.27m cable
Earphone 2	ASUS	WW	1.25m cable
Earphone 3	ASUS	CHM-125STS02001	1.15m cable
USB cable 1	ASUS	AA780300	0.85m cable
USB cable 2	ASUS	L65U2008-CS-B	0.95m cable
USB cable 3	ASUS	CUHD003B-Y05-EF	0.95m cable
LCD Panel	SHARP	LS050T1SX04	--
Front Camera 1	AZWAVE	AM-2F024	--
Front Camera 2	Chicony	CCFD21220003871LH	--
Rear Camera	LARVIEW	CBAA0-010A	--
WLAN / BT Module	QUALCOMM	WIRELESS IC 79BWLNSP	--

2. The device has configurations as below.

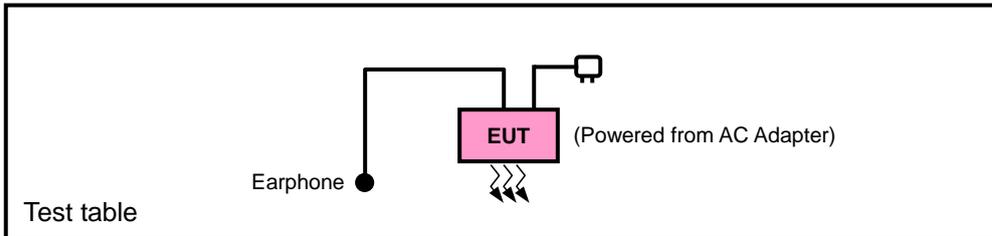
EUT CONFIGURE MODE	Description
A	EUT with Front Camera 1
B	EUT + PadFone Station with Front Camera 1
C	EUT with Front Camera 2
D	EUT + PadFone Station with Front Camera 2

3. 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.

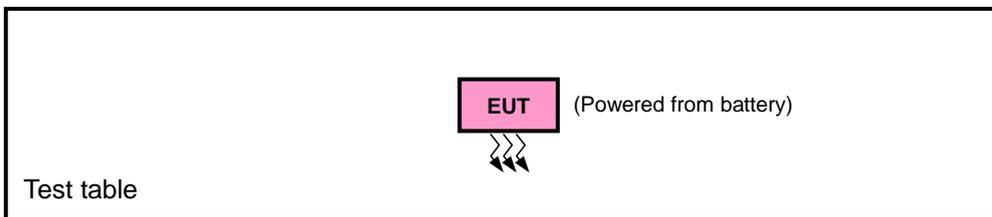
### 3.2 CONFIGURATION OF SYSTEM UNDER TEST

#### MODE A & C

##### FOR RADIATION EMISSION TEST

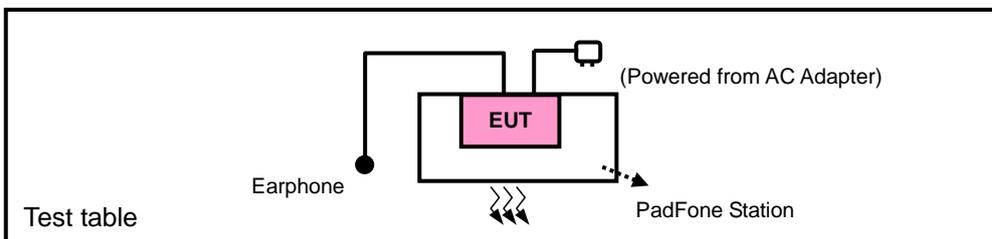


##### FOR E.I.R.P. TEST

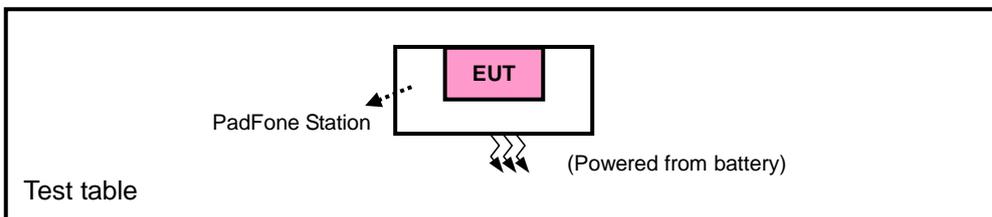


#### MODE B & D

##### FOR RADIATION EMISSION TEST



##### FOR E.I.R.P. TEST





### 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PadFone X Station	ASUS	T00DP	N/A	N/A
2	Battery for PadFone X Station	ASUS	C11P1323	N/A	N/A

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

**NOTE:**

- 1. All power cords of the above support units are non shielded (1.8m).
- 2. Items 1-2 were provided by client.

### 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:

EUT CONFIGURE MODE		BAND	AXIS FOR RADIATED EMISSION
A	EIRP	GSM / EDGE / WCDMA / LTE	X
	RADIATED EMISSION	GSM / EDGE / WCDMA / LTE	Y
B	EIRP	GSM / EDGE / WCDMA / LTE	Z
	RADIATED EMISSION	GSM / EDGE / WCDMA	Z
		LTE	Y
C	RADIATED EMISSION	GSM	Y
		LTE	Z
D	RADIATED EMISSION	GSM / LTE	Z

**GSM MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A, B	EIRP	512 to 810	512, 661, 810	GSM, EDGE
A	FREQUENCY STABILITY	512 to 810	661	GSM, EDGE
A	OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GSM, EDGE
A	PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM, EDGE
A	BAND EDGE	512 to 810	512, 810	GSM, EDGE
A	CONDCUETED EMISSION	512 to 810	661	GSM, EDGE
A, B	RADIATED EMISSION	512 to 810	661	GSM, EDGE
C, D	RADIATED EMISSION	512 to 810	661	GSM

**WCDMA MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A, B	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
A	FREQUENCY STABILITY	9262 to 9538	9400	WCDMA
A	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
A	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
A	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
A	CONDCUETED EMISSION	9262 to 9538	9400	WCDMA
A, B	RADIATED EMISSION	9262 to 9538	9400	WCDMA



**LTE BAND 2 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
A, B	EIRP	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		
A	FREQUENCY STABILITY	18625 to 19175	18900	5MHz	QPSK	1 RB / 12 RB Offset		
		18650 to 19150	18900	10MHz	QPSK	1 RB / 24 RB Offset		
A	OCCUPIED BANDWIDTH	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		
A	PEAK TO AVERAGE RATIO	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		
A	BAND EDGE	18625 to 19175	18625	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			19175	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		18650 to 19150	18650	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			19150	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	18625 to 19175	18900	5MHz	QPSK	1 RB / 12 RB Offset
				18650 to 19150	18900	10MHz	QPSK	1 RB / 24 RB Offset
A, B	RADIATED EMISSION	18625 to 19175	18900	5MHz	QPSK	1 RB / 12 RB Offset		
		18650 to 19150	18900	10MHz	QPSK	1 RB / 24 RB Offset		
C, D	RADIATED EMISSION	18650 to 19150	18900	10MHz	QPSK	1 RB / 24 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
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
CONDCUDED EMISSION	25deg. C, 59%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin / Kay Wu / Peter Weng / Dylan Yang

### **3.5 EUT OPERATING CONDITIONS**

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

### **3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS**

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 24**

**ANSI/TIA/EIA-603-C 2004**

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

## 4 TEST TYPES AND RESULTS

### 4.1 OUTPUT POWER MEASUREMENT

#### 4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP

#### 4.1.2 TEST PROCEDURES

##### **EIRP / ERP MEASUREMENT:**

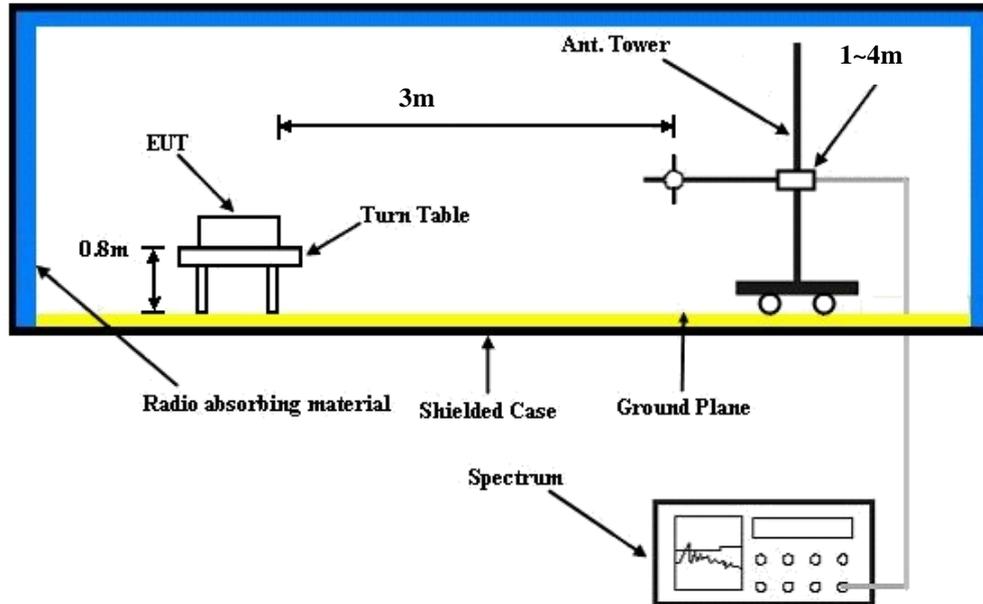
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA and CDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the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

##### **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).



#### 4.1.4 TEST RESULTS

##### CONDUCTED OUTPUT POWER (dBm)

Band	GPRS1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GSM (1 Uplink)	28.89	29.01	29.23
GPRS 8 (GMSK, 1 slot)	28.95	29.07	<b>29.29</b>
GPRS 10 (GMSK, 2 slot)	28.79	28.91	29.13
EDGE 8 (GMSK, 1 Uplink)	28.85	28.97	29.19
EDGE 10 (GMSK, 2 Uplink)	28.90	29.02	29.24
EDGE 8 (8PSK, 1 Uplink)	25.77	25.89	26.11
EDGE 10 (8PSK, 2 Uplink)	25.73	25.85	26.07

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.31	22.28	<b>22.32</b>
HSDPA Subtest-1	21.34	21.31	21.35
HSDPA Subtest-2	21.33	21.30	21.34
HSDPA Subtest-3	20.83	20.80	20.84
HSDPA Subtest-4	20.85	20.82	20.86
HSUPA Subtest-1	21.33	21.30	21.34
HSUPA Subtest-2	19.97	19.94	19.98
HSUPA Subtest-3	20.14	20.11	20.15
HSUPA Subtest-4	20.29	20.26	20.30
HSUPA Subtest-5	21.36	21.33	21.37



Band / BW	Modulation	RB Size	RB Offset	Low CH 18625	Mid CH 18900	High CH 19175	3GPP MPR (dB)
				Frequency 1852.5 MHz	Frequency 1880.0 MHz	Frequency 1907.5 MHz	
2 / 5M	QPSK	1	0	22.25	22.16	22.36	0
		1	12	22.44	22.15	<b>22.54</b>	0
		1	24	22.14	21.94	22.28	0
		12	0	21.39	21.25	21.44	1
		12	6	21.45	21.32	21.42	1
		12	13	21.43	21.22	21.35	1
		25	0	21.41	21.28	21.40	1
	16QAM	1	0	21.21	21.12	21.32	1
		1	12	21.40	21.11	21.50	1
		1	24	21.10	20.90	21.24	1
		12	0	20.35	20.21	20.40	2
		12	6	20.41	20.28	20.38	2
		12	13	20.39	20.18	20.31	2
		25	0	20.37	20.24	20.36	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 18650	Mid CH 18900	High CH 19150	3GPP MPR (dB)
				Frequency 1855.0 MHz	Frequency 1880.0 MHz	Frequency 1905.0 MHz	
2 / 10M	QPSK	1	0	22.27	22.18	22.38	0
		1	24	22.46	22.17	<b>22.56</b>	0
		1	49	22.16	21.96	22.30	0
		25	0	21.41	21.27	21.46	1
		25	12	21.47	21.34	21.44	1
		25	25	21.45	21.24	21.37	1
		50	0	21.43	21.30	21.42	1
	16QAM	1	0	21.24	21.15	21.35	1
		1	24	21.43	21.14	21.53	1
		1	49	21.13	20.93	21.27	1
		25	0	20.38	20.24	20.43	2
		25	12	20.44	20.31	20.41	2
		25	25	20.42	20.21	20.34	2
		50	0	20.40	20.27	20.39	2



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## EIRP POWER (dBm)

### MODE A

#### GSM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	512	1850.2	-7.64	36.57	28.93	781.99	H
	661	1880.0	-7.54	37.22	29.68	929.82	H
	810	1909.8	-7.68	37.18	29.50	891.66	H
	512	1850.2	-11.57	37.65	26.08	405.60	V
	661	1880.0	-11.59	37.58	25.99	397.47	V
	810	1909.8	-11.72	37.48	25.76	376.70	V

#### EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	512	1850.2	-10.27	36.57	26.30	426.78	H
	661	1880.0	-10.27	37.22	26.95	495.91	H
	810	1909.8	-10.53	37.18	26.65	462.59	H
	512	1850.2	-15.59	37.65	22.06	160.73	V
	661	1880.0	-15.76	37.58	21.82	152.16	V
	810	1909.8	-15.62	37.48	21.86	153.46	V

#### WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	9262	1852.4	-14.36	36.57	22.21	166.42	H
	9400	1880.0	-14.07	37.22	23.15	206.73	H
	9538	1907.6	-14.22	37.18	22.96	197.79	H
	9262	1852.4	-21.99	37.65	15.66	36.82	V
	9400	1880.0	-21.17	37.58	16.41	43.78	V
	9538	1907.6	-21.06	37.48	16.42	43.85	V

**LTE BAND 2****CHANNEL BANDWIDTH: 5MHz QPSK**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	18625	1852.5	-14.23	36.57	22.34	171.47	H
	18900	1880	-14.50	37.22	22.72	187.24	H
	19175	1907.5	-13.80	37.18	23.38	217.87	H
	18625	1852.5	-19.07	37.65	18.58	72.13	V
	18900	1880	-19.62	37.58	17.96	62.56	V
	19175	1907.5	-19.04	37.48	18.44	69.82	V

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	18625	1852.5	-15.64	36.57	20.93	123.94	H
	18900	1880	-15.60	37.22	21.62	145.34	H
	19175	1907.5	-15.49	37.18	21.69	147.64	H
	18625	1852.5	-20.63	37.65	17.02	50.36	V
	18900	1880	-20.64	37.58	16.94	49.47	V
	19175	1907.5	-20.15	37.48	17.33	54.08	V



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### CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	18650	1855	-13.84	36.57	22.73	187.59	H
	18900	1880	-14.57	37.22	22.65	184.25	H
	19150	1905	-14.02	37.18	23.16	207.11	H
	18650	1855	-19.23	37.65	18.42	69.52	V
	18900	1880	-19.43	37.58	18.15	65.36	V
	19150	1905	-19.28	37.48	18.20	66.07	V

### CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	18650	1855	-15.15	36.57	21.42	138.74	H
	18900	1880	-15.06	37.22	22.16	164.59	H
	19150	1905	-15.57	37.18	21.61	144.94	H
	18650	1855	-20.51	37.65	17.14	51.77	V
	18900	1880	-20.82	37.58	16.76	47.46	V
	19150	1905	-20.29	37.48	17.19	52.36	V

**MODE B****GSM**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	512	1850.2	-10.80	36.57	25.77	377.75	H
	661	1880.0	-10.93	37.22	26.29	425.99	H
	810	1909.8	-10.14	37.18	27.04	506.06	H
	512	1850.2	-6.70	37.65	30.95	1244.80	V
	661	1880.0	-7.31	37.58	30.27	1064.88	V
	810	1909.8	-7.17	37.48	30.31	1073.99	V

**EDGE**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	512	1850.2	-13.00	36.57	23.57	227.61	H
	661	1880.0	-13.61	37.22	23.61	229.83	H
	810	1909.8	-13.15	37.18	24.03	253.05	H
	512	1850.2	-10.14	37.65	27.51	563.77	V
	661	1880.0	-10.52	37.58	27.06	508.51	V
	810	1909.8	-10.16	37.48	27.32	539.51	V

**WCDMA**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	9262	1852.4	-18.73	36.57	17.84	60.84	H
	9400	1880.0	-18.23	37.22	18.99	79.32	H
	9538	1907.6	-18.56	37.18	18.62	72.81	H
	9262	1852.4	-13.95	37.65	23.70	234.48	V
	9400	1880.0	-13.95	37.58	23.63	230.83	V
	9538	1907.6	-13.92	37.48	23.56	226.99	V



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## LTE BAND 2

### CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18625	1852.5	-13.86	36.57	22.71	186.72	H
	18900	1880	-14.06	37.22	23.16	207.20	H
	19175	1907.5	-13.33	37.18	23.85	242.77	H
	18625	1852.5	-18.13	37.65	19.52	89.56	V
	18900	1880	-17.96	37.58	19.62	91.69	V
	19175	1907.5	-18.92	37.48	18.56	71.78	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	-14.63	36.57	21.94	156.39	H
	18900	1880	-14.92	37.22	22.30	169.98	H
	19175	1907.5	-15.21	37.18	21.97	157.47	H
	18625	1852.5	-18.45	37.65	19.20	83.20	V
	18900	1880	-18.42	37.58	19.16	82.47	V
	19175	1907.5	-18.51	37.48	18.97	78.89	V



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### CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855	-13.66	36.57	22.91	195.52	H
	18900	1880	-13.86	37.22	23.36	216.97	H
	19150	1905	-13.63	37.18	23.55	226.57	H
	18650	1855	-18.37	37.65	19.28	84.74	V
	18900	1880	-18.18	37.58	19.40	87.16	V
	19150	1905	-18.49	37.48	18.99	79.25	V

### CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855	-14.46	36.57	22.11	162.63	H
	18900	1880	-14.71	37.22	22.51	178.40	H
	19150	1905	-14.79	37.18	22.39	173.46	H
	18650	1855	-18.21	37.65	19.44	87.92	V
	18900	1880	-18.30	37.58	19.28	84.78	V
	19150	1905	-18.38	37.48	19.10	81.28	V

## 4.2 FREQUENCY STABILITY MEASUREMENT

### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

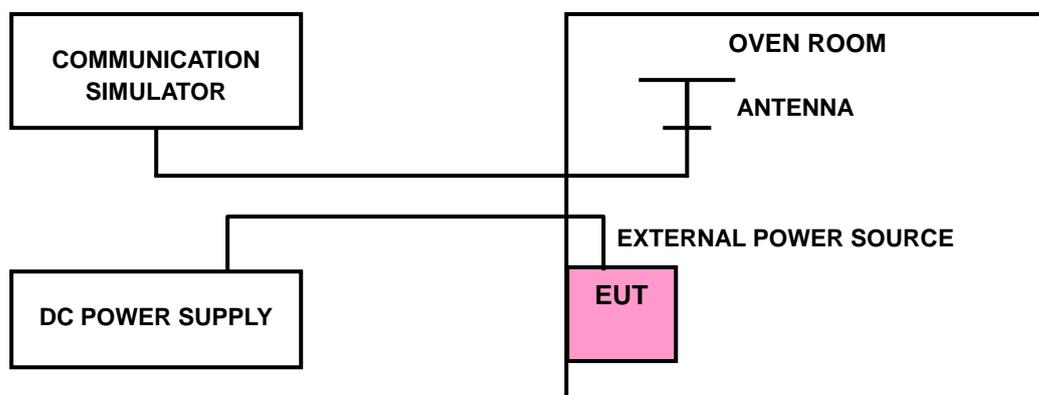
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 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)
	GSM	EDGE	WCDMA	LTE Band 2		
				5MHz	10MHz	
3.8	0.03	0.03	0.002	-0.00176	0.00659	2.5
3.6	0.03	0.03	0.002	-0.00376	0.00718	2.5
4.2	0.03	0.03	0.002	-0.00518	-0.00435	2.5

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

### FREQUENCY ERROR vs. TEMPERATURE

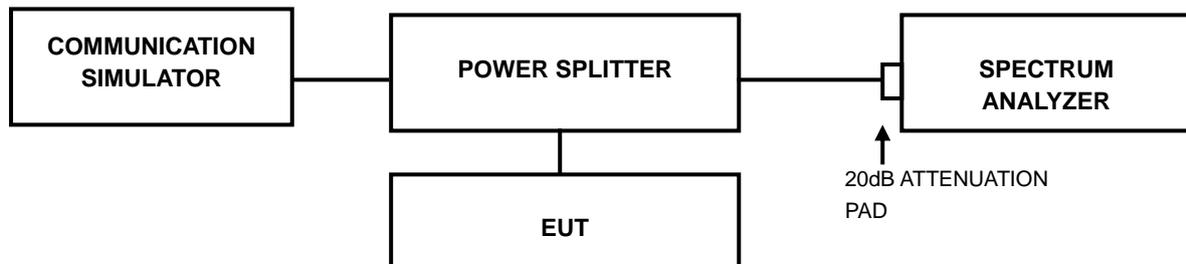
TEMP. (°C)	FREQUENCY ERROR (ppm)					LIMIT (ppm)
	GSM	EDGE	WCDMA	LTE Band 2		
				5MHz	10MHz	
-30	0.03	0.03	0.002	-0.0055	-0.00129	2.5
-20	0.03	0.03	0.003	-0.0046	-0.00729	2.5
-10	0.03	0.03	0.004	-0.0065	-0.00776	2.5
0	0.03	0.03	0.003	0.0028	-0.00365	2.5
10	0.03	0.03	0.002	0.0081	-0.00059	2.5
20	0.03	0.03	0.004	-0.0091	0.00435	2.5
30	0.03	0.03	0.002	0.0025	-0.00471	2.5
40	0.03	0.04	0.003	0.0042	-0.00247	2.5
50	0.03	0.03	0.002	-0.0019	0.00329	2.5

### 4.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 4.3.1 TEST PROCEDURES

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

#### 4.3.2 TEST SETUP

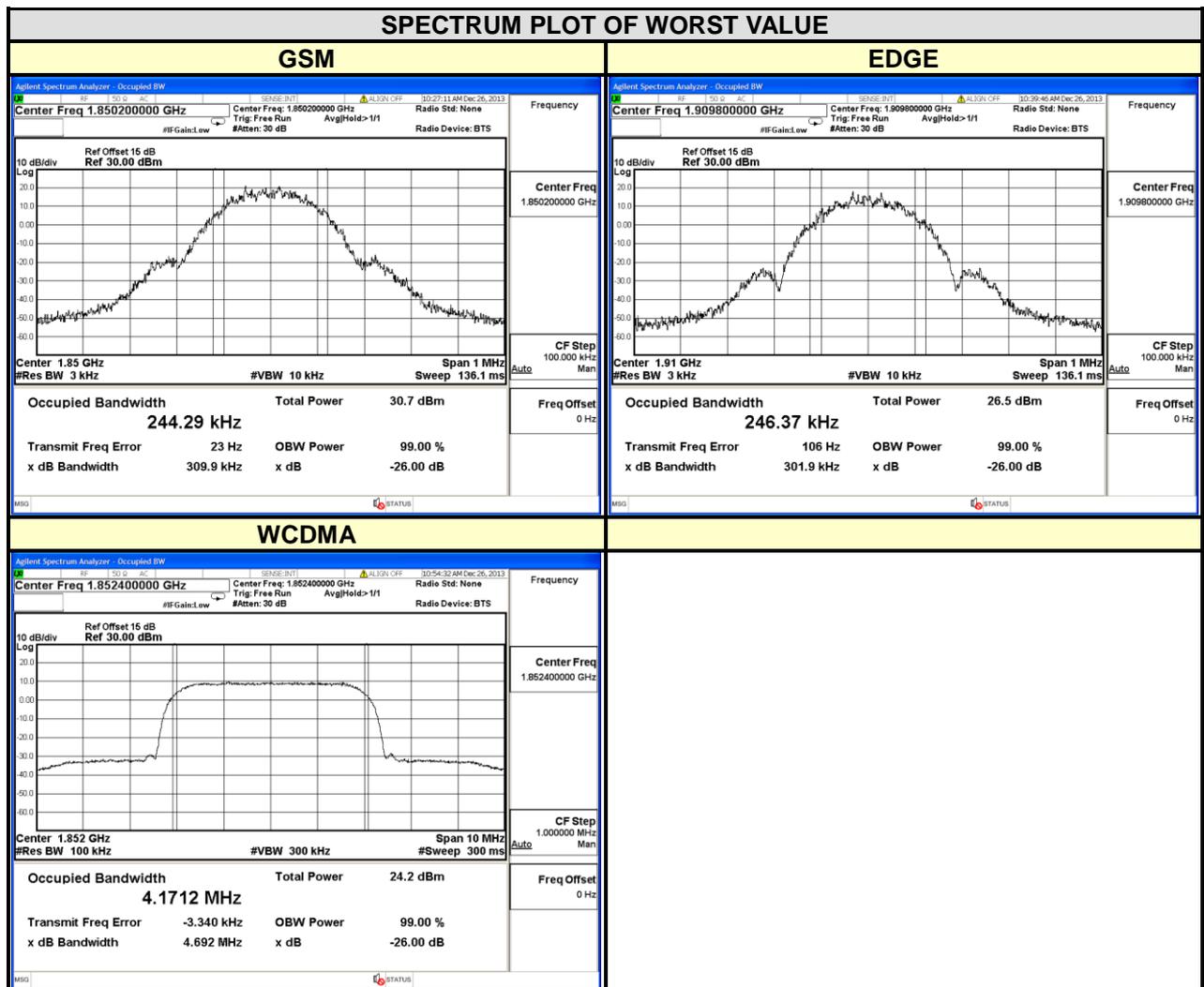




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### 4.3.3 TEST RESULTS

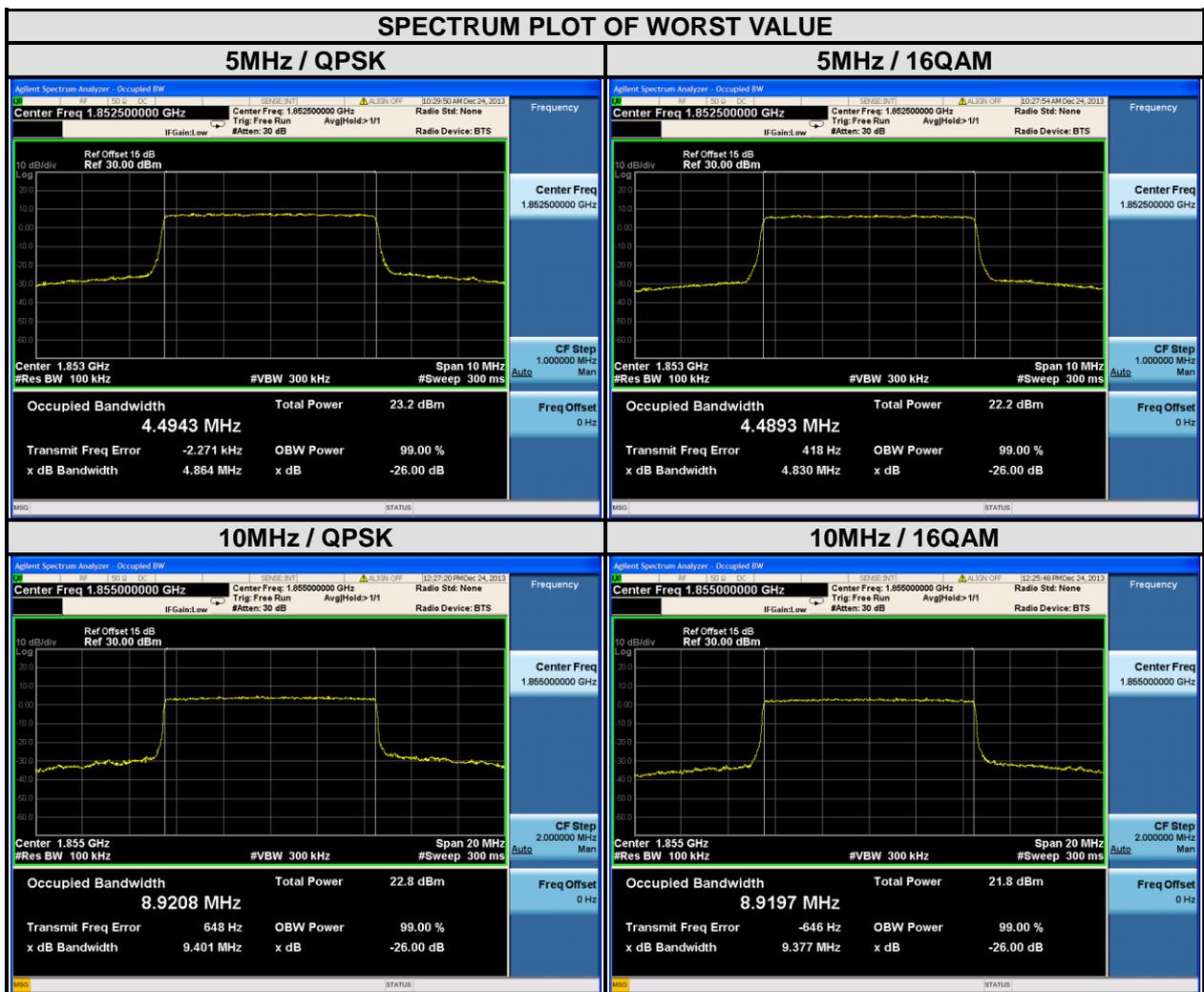
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GSM	EDGE			WCDMA
512	1850.2	244.29	245.18	9262	1852.4	4.1712
661	1880.0	242.34	242.80	9400	1880.0	4.1599
810	1909.8	243.29	246.37	9538	1907.6	4.1623





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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	4.4943	4.4893	18650	1855	8.9208	8.9197
18900	1880	4.4908	4.4865	18900	1880	8.9033	8.9050
19175	1907.5	4.4927	4.4874	19150	1905	8.9180	8.9133

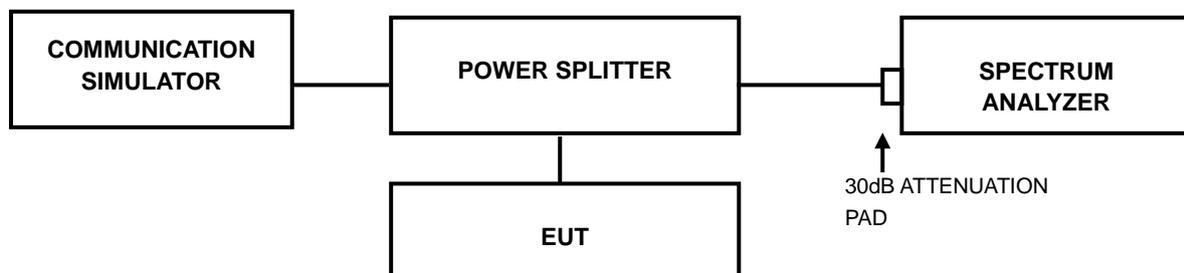


## 4.4 PEAK TO AVERAGE RATIO

### 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%.

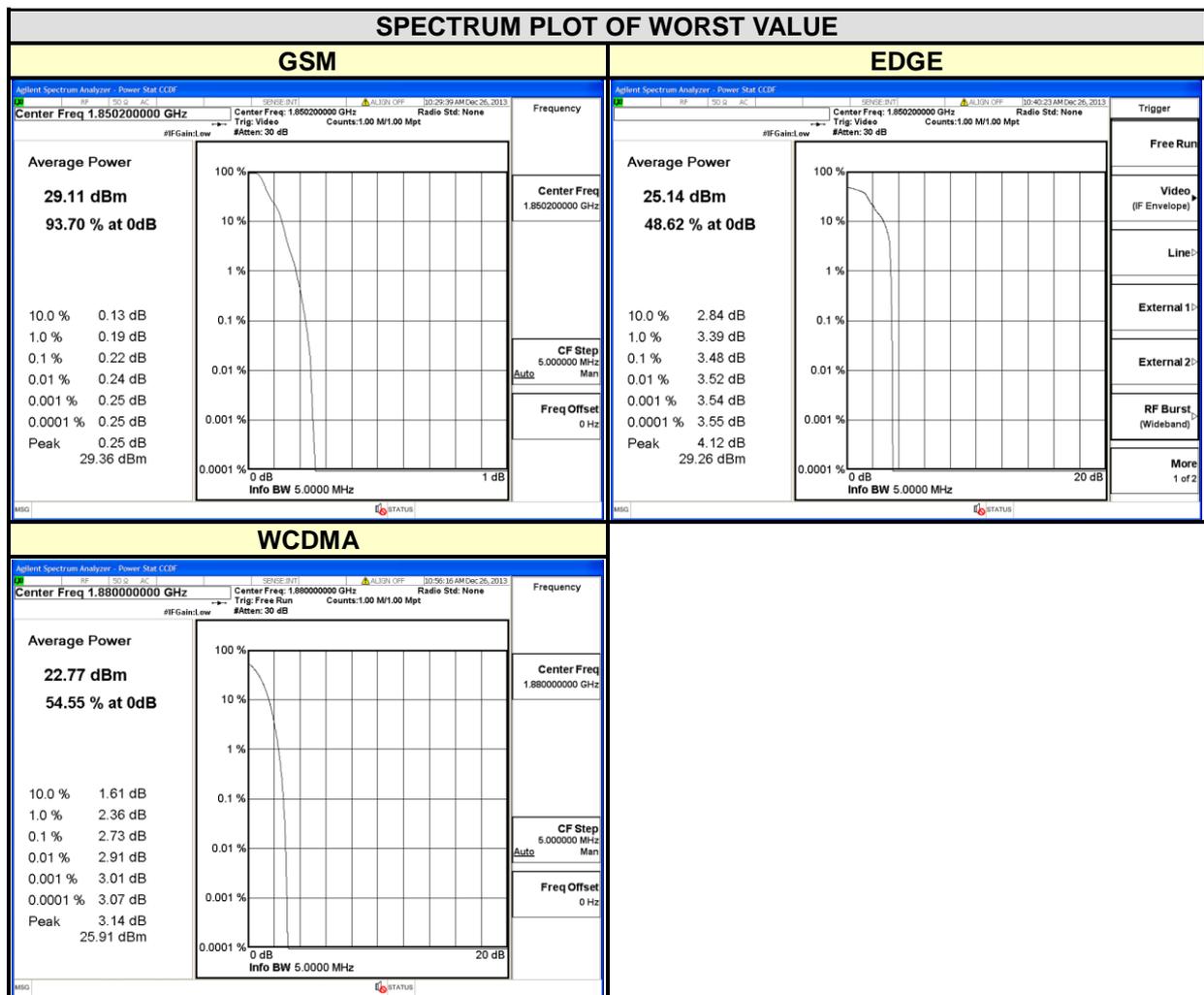


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#### 4.4.4 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		GSM	EDGE
512	1850.2	0.22	3.48
661	1880.0	0.18	3.33
810	1909.8	0.16	3.12

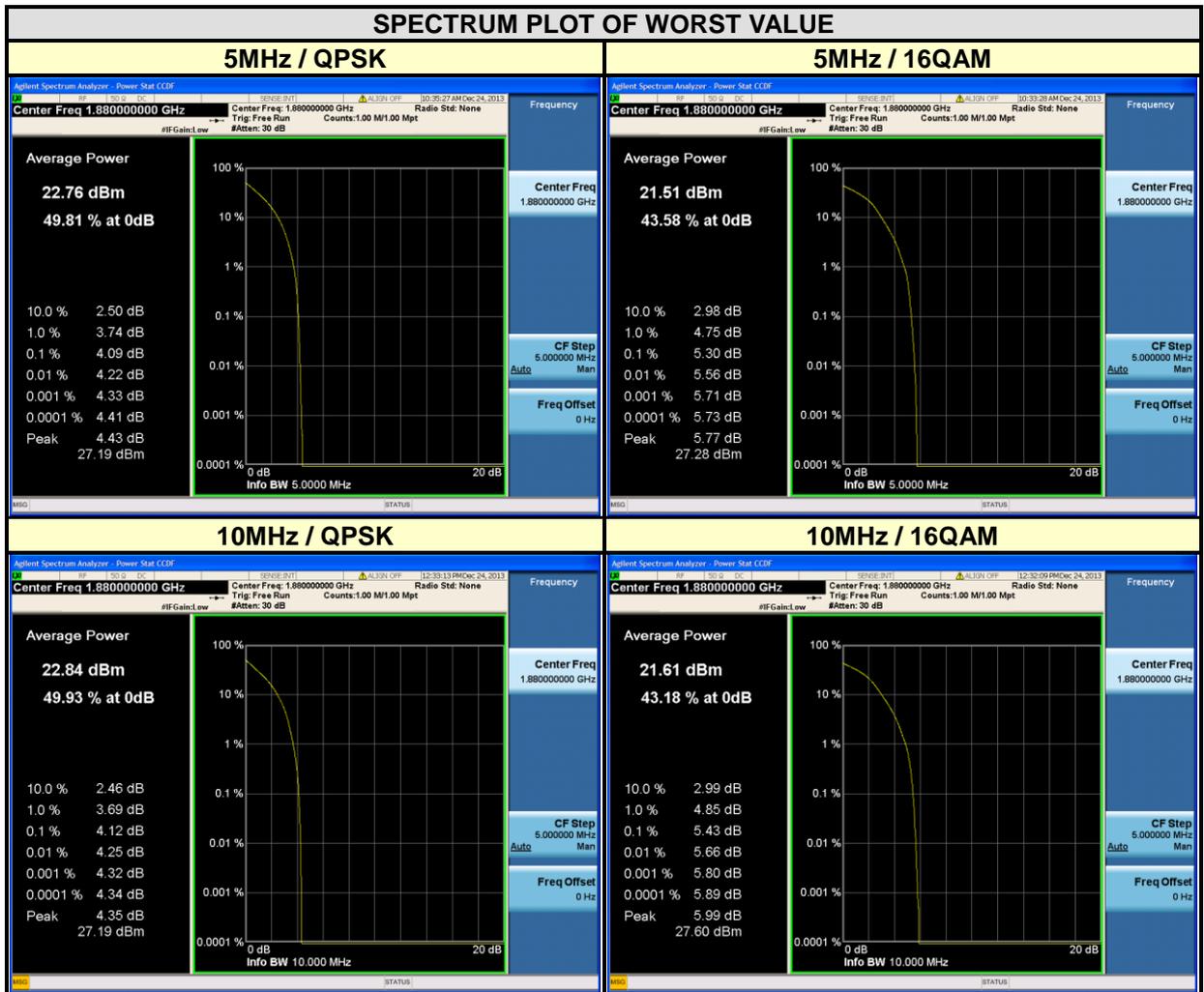
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
		WCDMA
9262	1852.4	2.67
9400	1880.0	2.73
9538	1907.6	2.58





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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	3.67	4.86	18650	1855	3.75	4.87
18900	1880	4.09	5.30	18900	1880	4.12	5.43
19175	1907.5	3.61	4.97	19150	1905	3.73	4.62

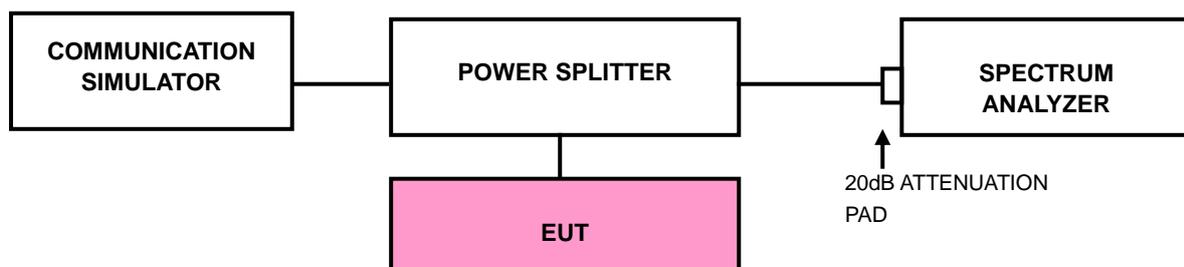


## 4.5 BAND EDGE MEASUREMENT

### 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



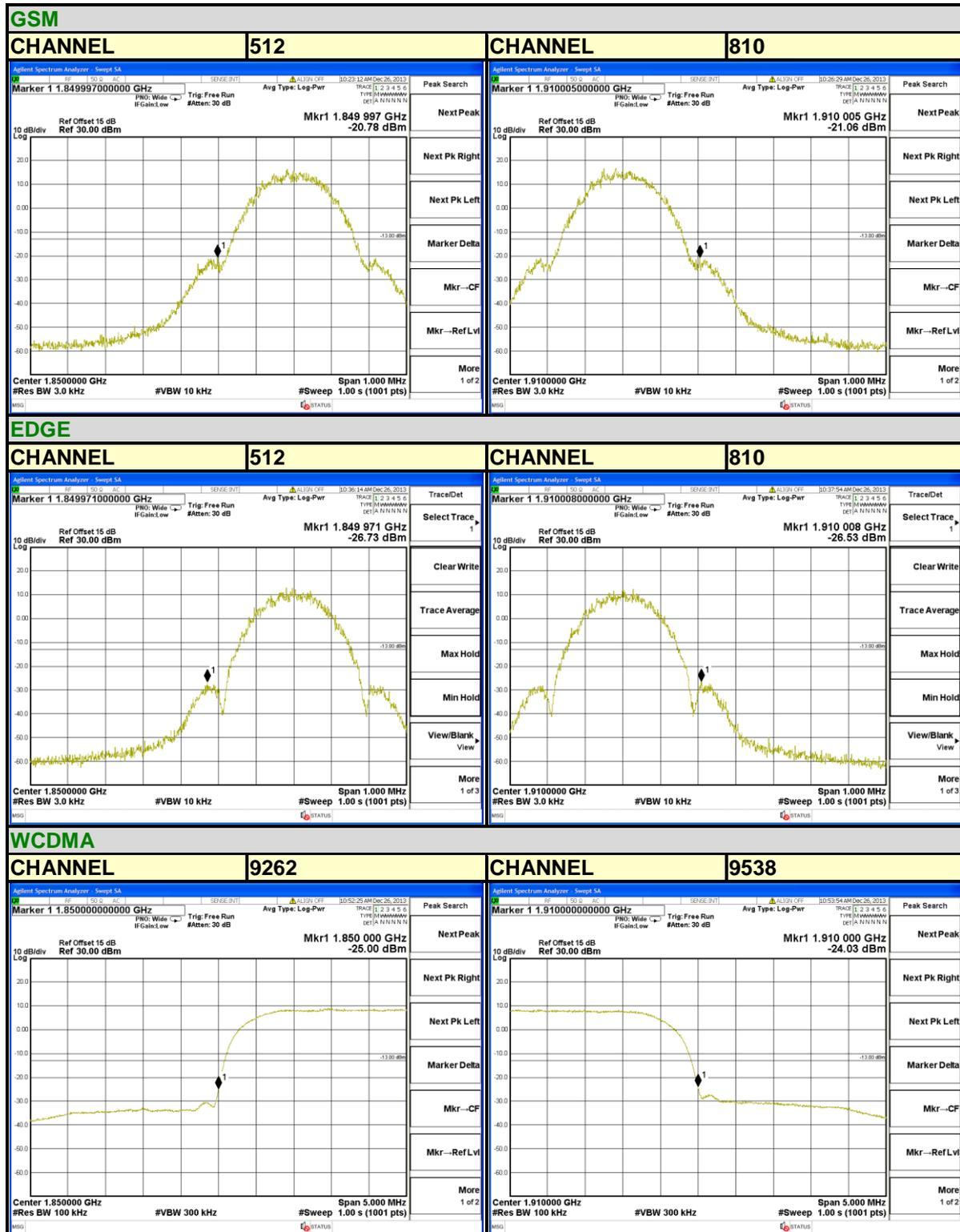
### 4.5.3 TEST PROCEDURES

- 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

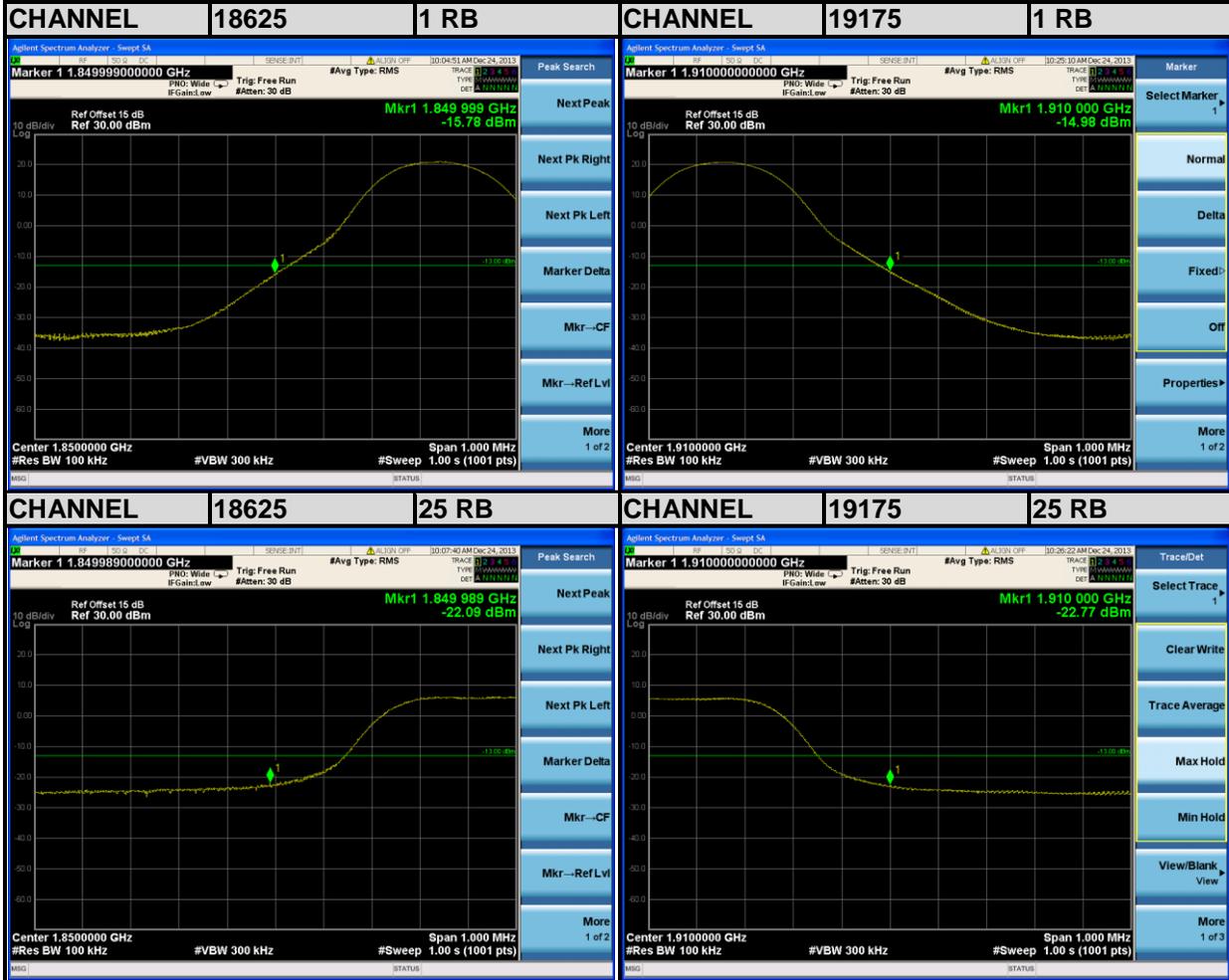




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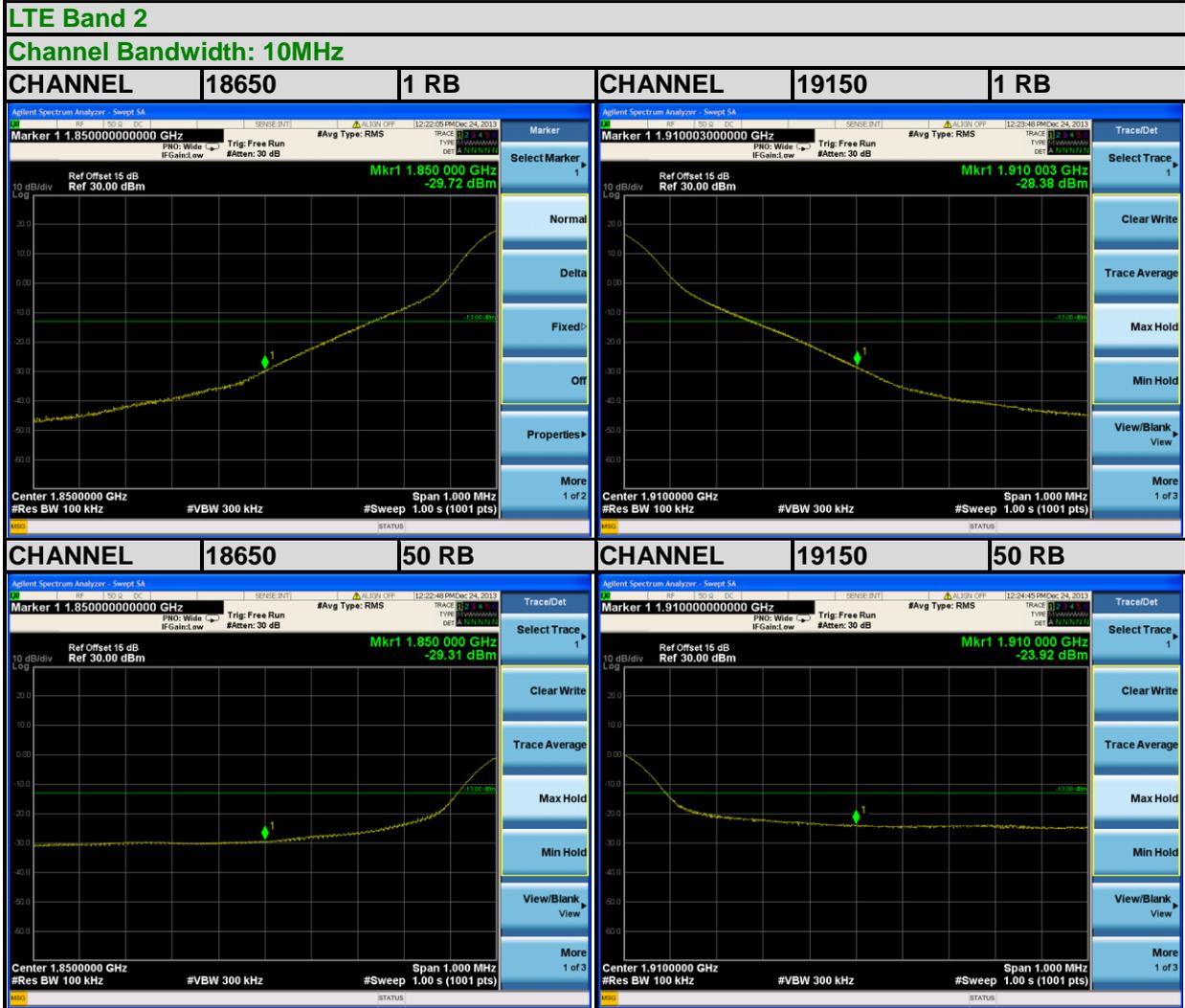
### LTE Band 2

### Channel Bandwidth: 5MHz





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## 4.6 CONDUCTED SPURIOUS EMISSIONS

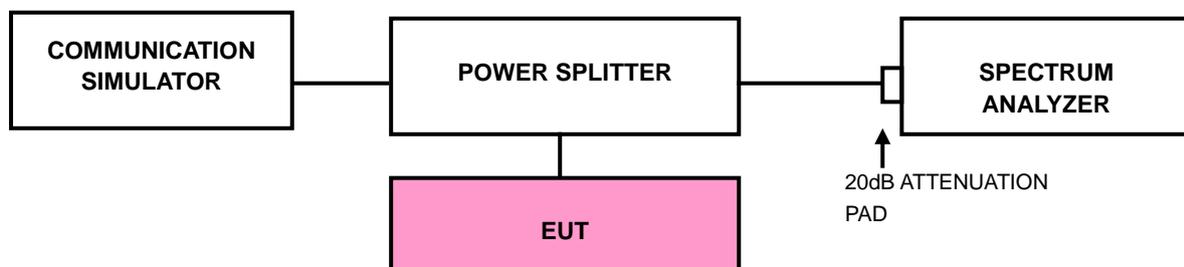
### 4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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  $-13\text{dBm}$ .

### 4.6.2 TEST PROCEDURE

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

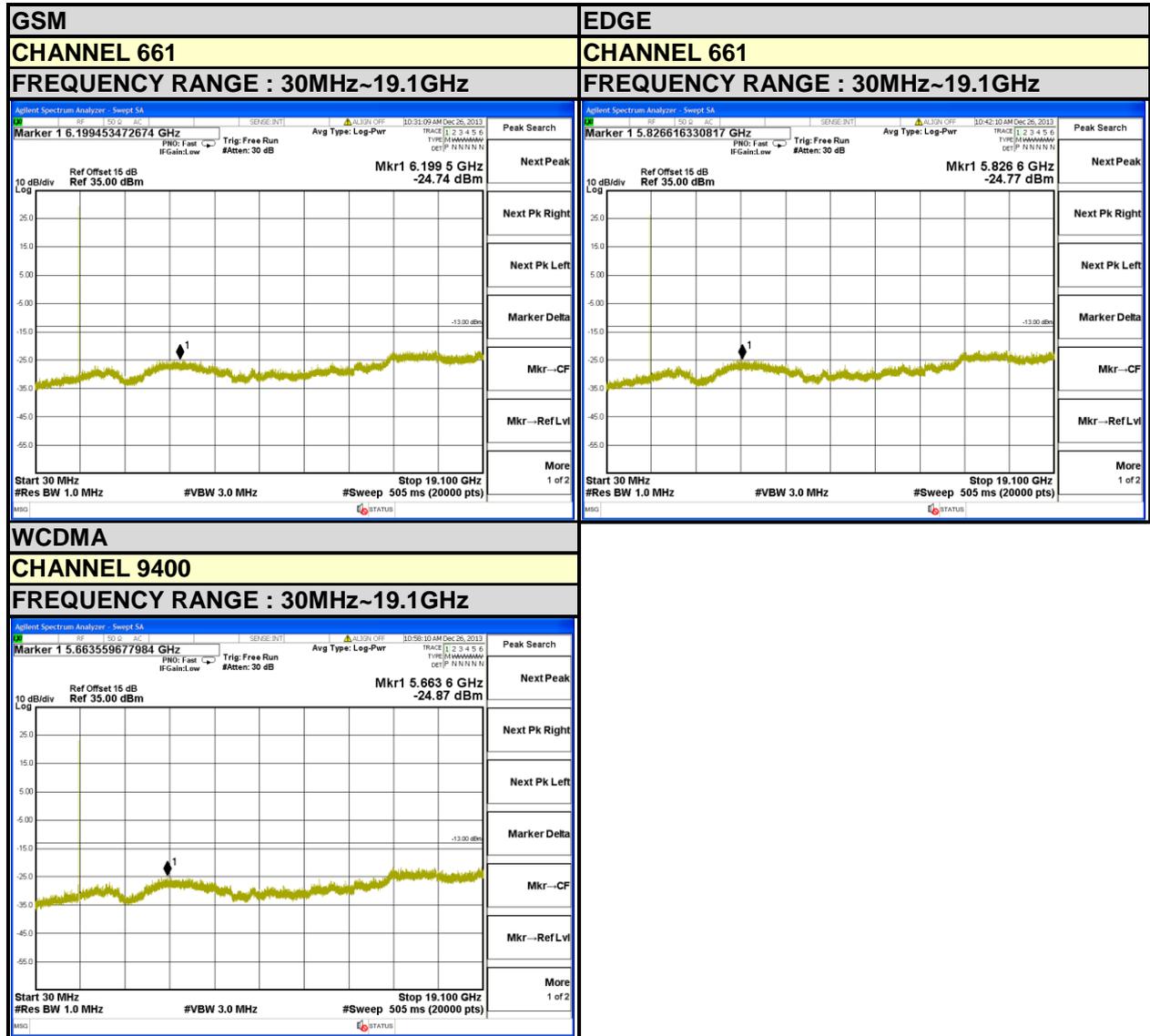
### 4.6.3 TEST SETUP





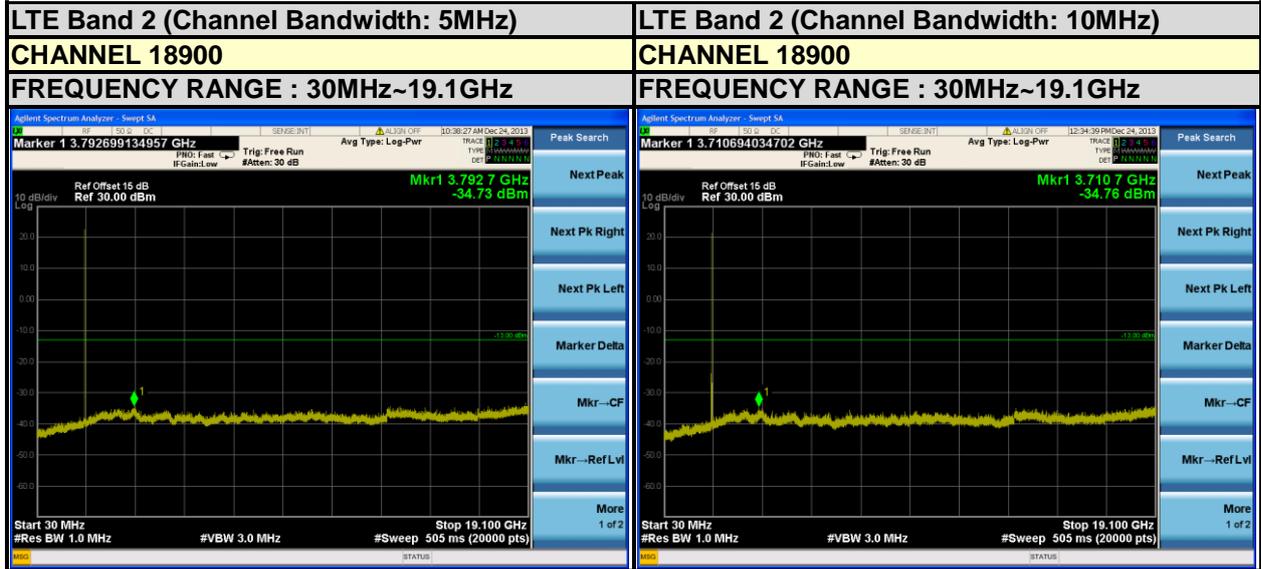
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### 4.6.4 TEST RESULTS





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## 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  $-13\text{dBm}$ .

### 4.7.2 TEST PROCEDURES

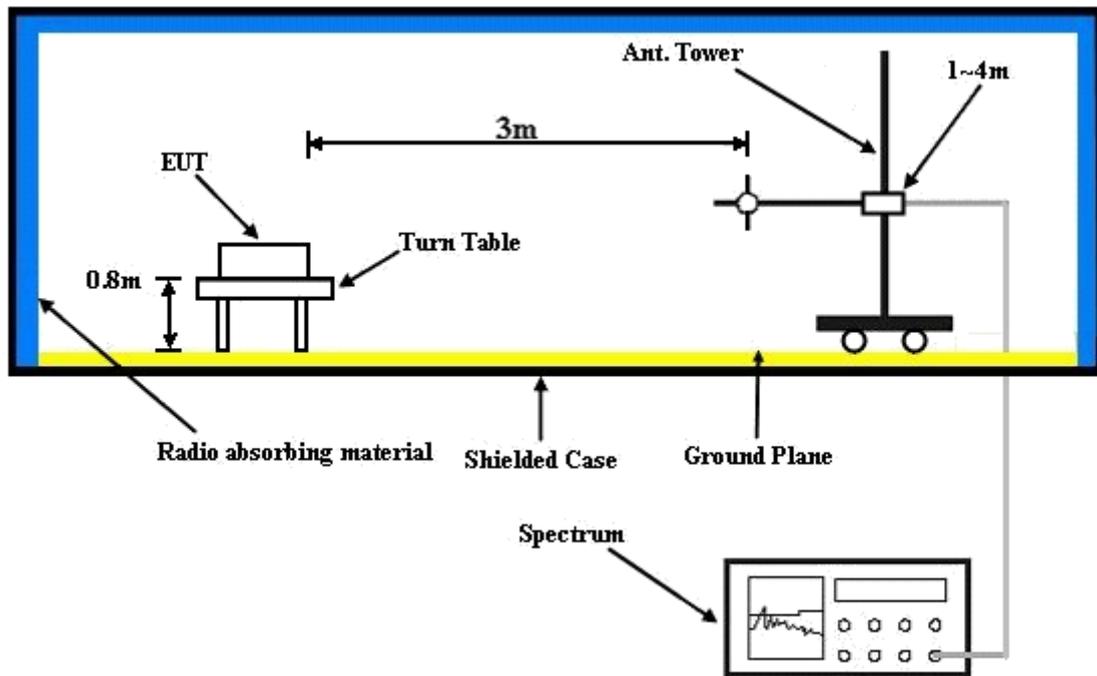
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

### 4.7.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.7.4 TEST SETUP



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



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### 4.7.5 TEST RESULTS

MODE A

GSM:

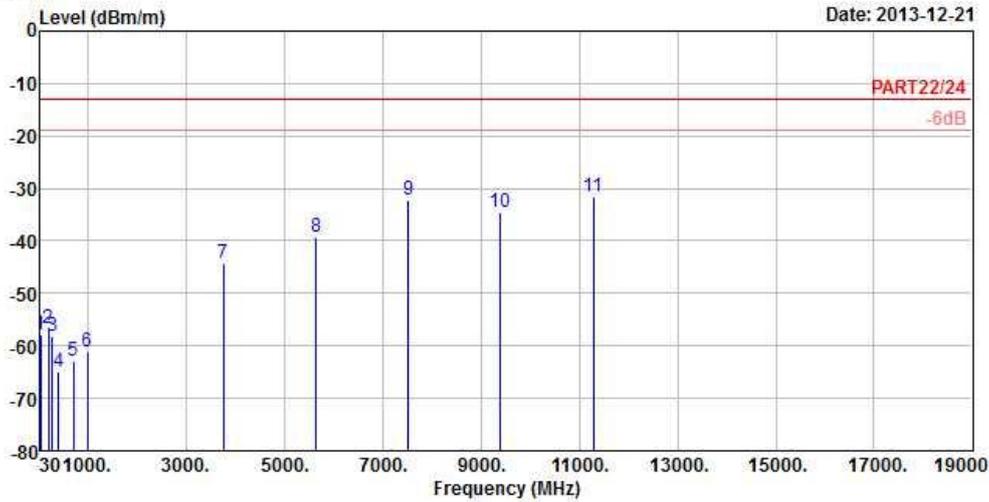


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2013-12-21



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91  
 Remark : PCS1900\_Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	32.16	-57.82	-57.43	-13.00	-44.82	-0.39	Peak
2	189.57	-56.59	-49.78	-13.00	-43.59	-6.81	Peak
3	276.51	-58.26	-52.21	-13.00	-45.26	-6.05	Peak
4	393.10	-65.03	-59.34	-13.00	-52.03	-5.69	Peak
5	707.40	-62.93	-64.43	-13.00	-49.93	1.50	Peak
6	993.70	-61.04	-65.60	-13.00	-48.04	4.56	Peak
7	3760.00	-44.34	-36.04	-13.00	-31.34	-8.30	Peak
8	5640.00	-39.24	-37.34	-13.00	-26.24	-1.90	Peak
9	7520.00	-32.29	-36.24	-13.00	-19.29	3.95	Peak
10	9400.00	-34.66	-41.09	-13.00	-21.66	6.43	Peak
11	11280.00	-31.48	-39.62	-13.00	-18.48	8.14	Peak



A D T

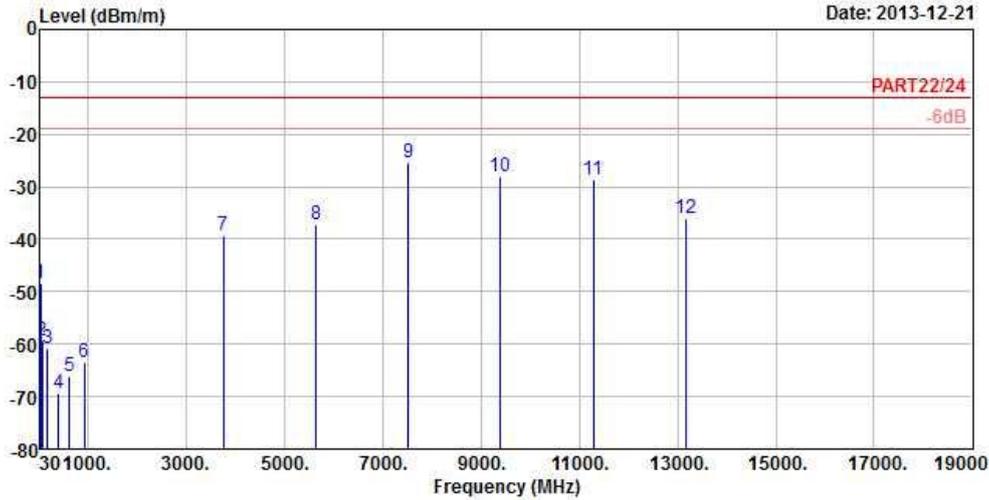


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2013-12-21



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91  
 Remark : PCS1900\_Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	31.35	-48.47	-48.81	-13.00	-35.47	0.34	Peak
2	66.99	-59.23	-50.86	-13.00	-46.23	-8.37	Peak
3	175.80	-60.91	-54.31	-13.00	-47.91	-6.60	Peak
4	406.40	-69.25	-63.78	-13.00	-56.25	-5.47	Peak
5	628.30	-66.00	-66.16	-13.00	-53.00	0.16	Peak
6	932.80	-63.35	-66.70	-13.00	-50.35	3.35	Peak
7	3760.00	-39.13	-30.83	-13.00	-26.13	-8.30	Peak
8	5640.00	-37.24	-35.34	-13.00	-24.24	-1.90	Peak
9 pp	7520.00	-25.46	-29.41	-13.00	-12.46	3.95	Peak
10	9400.00	-28.19	-34.62	-13.00	-15.19	6.43	Peak
11	11280.00	-28.61	-36.75	-13.00	-15.61	8.14	Peak
12	13160.00	-36.03	-45.82	-13.00	-23.03	9.79	Peak



A D T

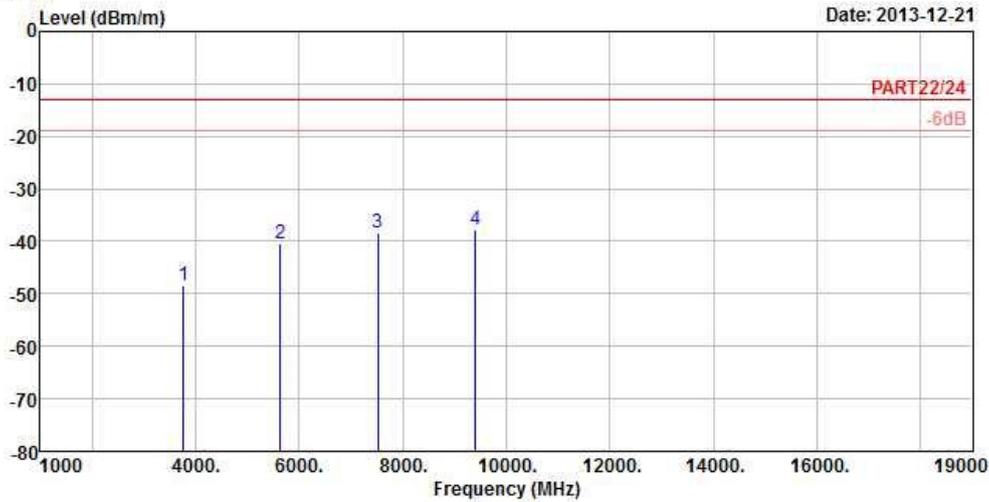
EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91  
 Remark : EDGE1900\_Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-48.27	-39.97	-13.00	-35.27	-8.30	Peak
2	5640.00	-40.53	-38.63	-13.00	-27.53	-1.90	Peak
3	7520.00	-38.35	-42.30	-13.00	-25.35	3.95	Peak
4 pp	9400.00	-37.71	-44.14	-13.00	-24.71	6.43	Peak



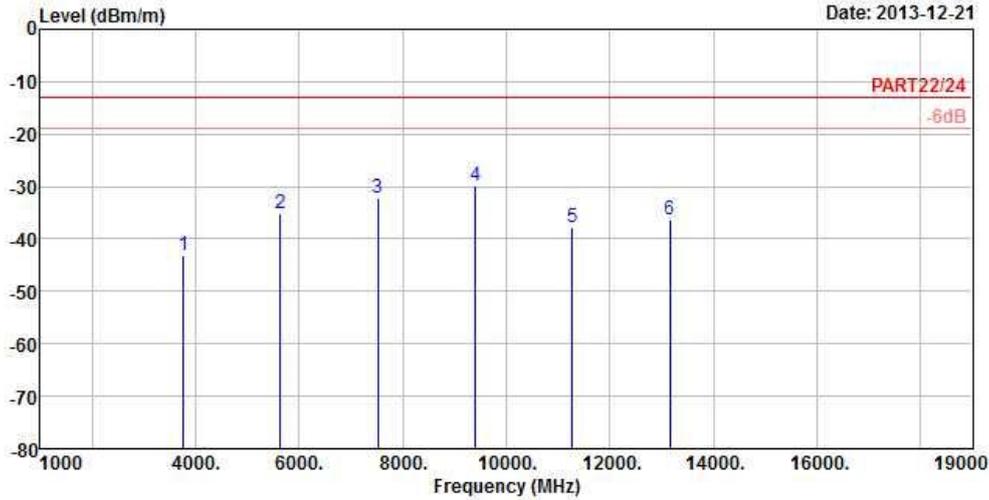
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91  
 Remark : EDGE1900\_Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-42.97	-34.67	-13.00	-29.97	-8.30	Peak
2	5640.00	-35.03	-33.13	-13.00	-22.03	-1.90	Peak
3	7520.00	-32.05	-36.00	-13.00	-19.05	3.95	Peak
4 pp	9400.00	-29.74	-36.17	-13.00	-16.74	6.43	Peak
5	11280.00	-37.80	-45.94	-13.00	-24.80	8.14	Peak
6	13160.00	-36.38	-46.17	-13.00	-23.38	9.79	Peak



A D T

WCDMA:

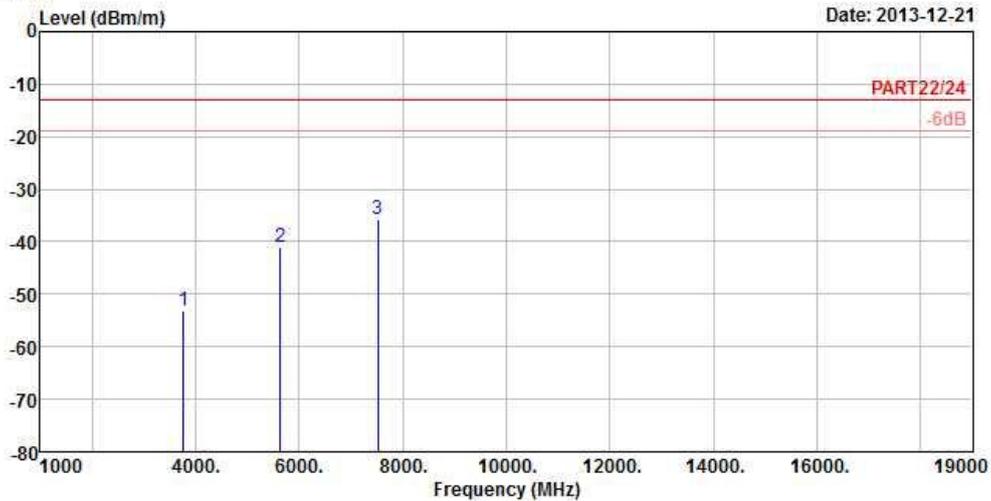


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2013-12-21



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91  
 Remark : Band II\_Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-53.15	-44.85	-13.00	-40.15	-8.30	Peak
2	5640.00	-40.96	-39.06	-13.00	-27.96	-1.90	Peak
3 pp	7520.00	-35.79	-39.74	-13.00	-22.79	3.95	Peak



A D T

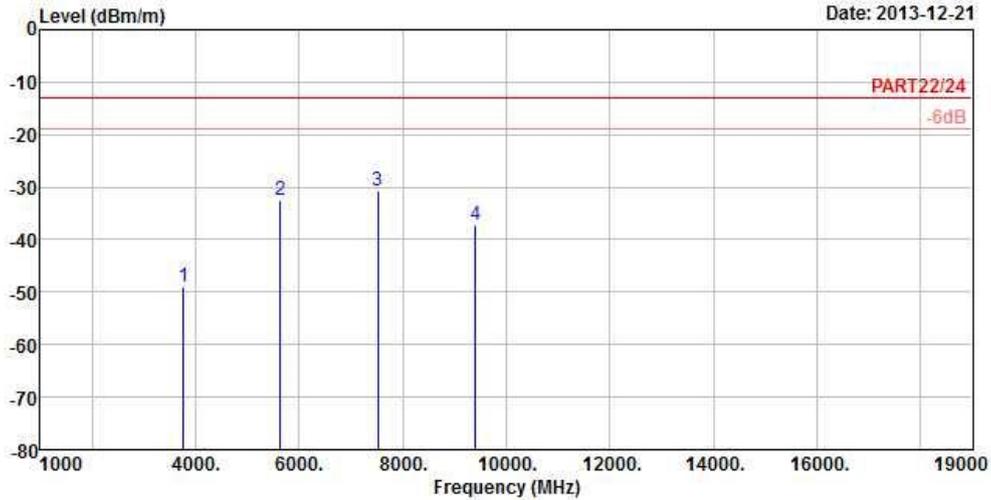


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2013-12-21



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91  
 Remark : Band II\_Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-48.88	-40.58	-13.00	-35.88	-8.30	Peak
2	5640.00	-32.61	-30.71	-13.00	-19.61	-1.90	Peak
3 pp	7520.00	-30.84	-34.79	-13.00	-17.84	3.95	Peak
4	9400.00	-37.09	-43.52	-13.00	-24.09	6.43	Peak



A D T

### LTE BAND 2

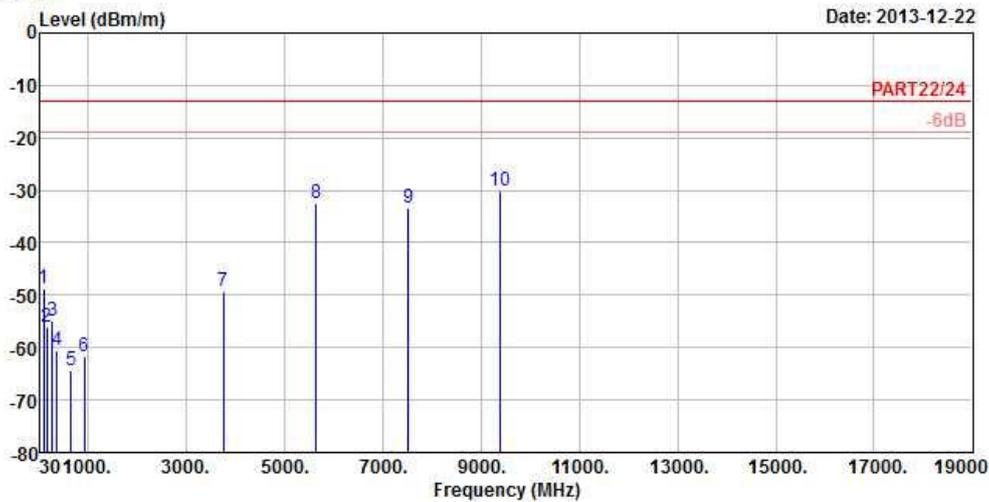
CHANNEL BANDWIDTH: 5MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91  
 Remark : LTE Band 2\_5M QPSK(1,12) Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	95.61	-48.67	-38.20	-13.00	-35.67	-10.47	Peak
2	167.43	-56.07	-49.41	-13.00	-43.07	-6.66	Peak
3	266.52	-54.78	-48.87	-13.00	-41.78	-5.91	Peak
4	376.30	-60.47	-54.66	-13.00	-47.47	-5.81	Peak
5	652.80	-64.36	-64.95	-13.00	-51.36	0.59	Peak
6	923.70	-61.70	-64.86	-13.00	-48.70	3.16	Peak
7	3760.00	-49.31	-41.01	-13.00	-36.31	-8.30	Peak
8	5640.00	-32.33	-30.43	-13.00	-19.33	-1.90	Peak
9	7520.00	-33.32	-37.27	-13.00	-20.32	3.95	Peak
10 pp	9400.00	-30.01	-36.44	-13.00	-17.01	6.43	Peak



A D T

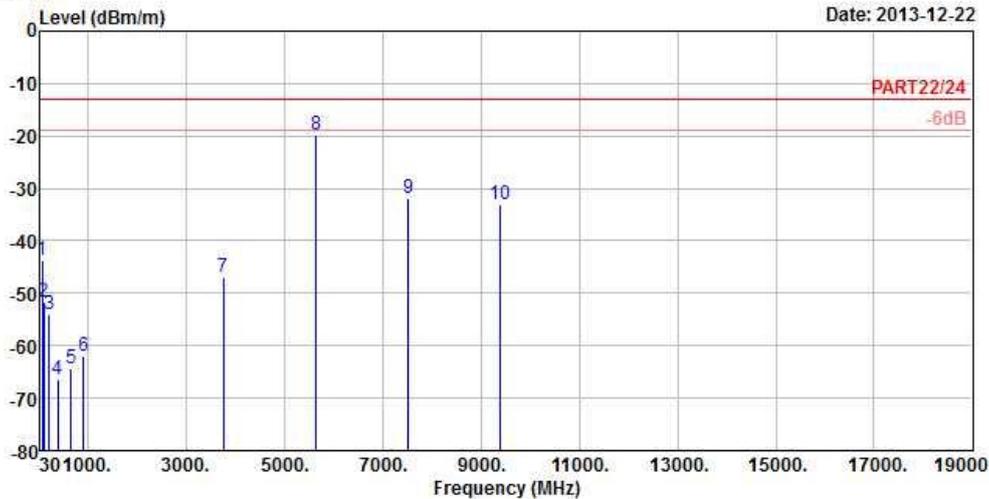


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2013-12-22



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91  
 Remark : LTE Band 2\_5M QPSK(1,12) Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	64.83	-43.69	-35.97	-13.00	-30.69	-7.72	Peak
2	93.18	-51.70	-41.17	-13.00	-38.70	-10.53	Peak
3	208.74	-53.96	-46.40	-13.00	-40.96	-7.56	Peak
4	383.30	-66.50	-60.74	-13.00	-53.50	-5.76	Peak
5	654.90	-64.26	-64.89	-13.00	-51.26	0.63	Peak
6	916.70	-62.07	-65.10	-13.00	-49.07	3.03	Peak
7	3760.00	-47.01	-38.71	-13.00	-34.01	-8.30	Peak
8 pp	5640.00	-19.81	-17.91	-13.00	-6.81	-1.90	Peak
9	7520.00	-31.88	-35.83	-13.00	-18.88	3.95	Peak
10	9400.00	-33.09	-39.52	-13.00	-20.09	6.43	Peak



A D T

LTE BAND 2

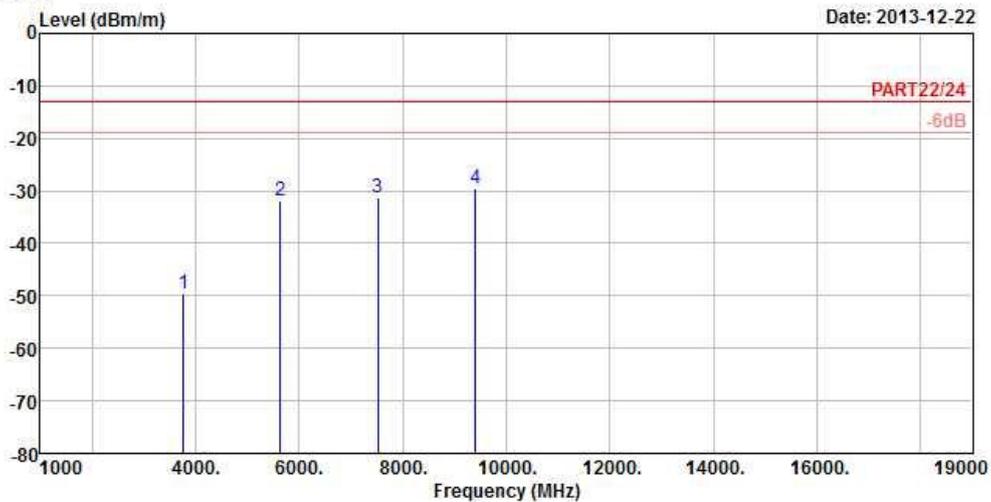
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91  
 Remark : LTE Band 2\_10M QPSK(1,24) Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-49.49	-41.19	-13.00	-36.49	-8.30 Peak
2	5640.00	-31.97	-30.07	-13.00	-18.97	-1.90 Peak
3	7520.00	-31.33	-35.28	-13.00	-18.33	3.95 Peak
4 pp	9400.00	-29.40	-35.83	-13.00	-16.40	6.43 Peak



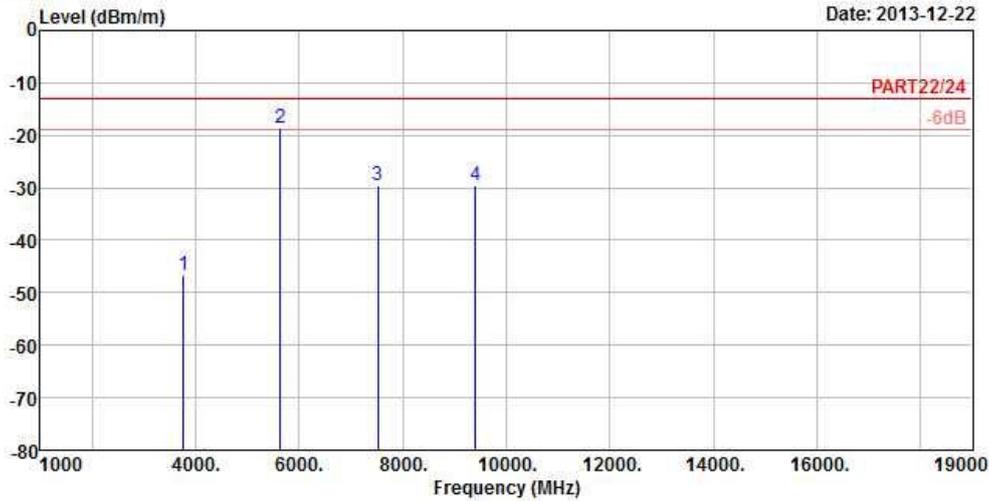
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91  
 Remark : LTE Band 2\_10M QPSK(1,24) Link  
 Tested by : Kay wu  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-46.70	-38.40	-13.00	-33.70	-8.30	Peak
2 pp	5640.00	-18.67	-16.77	-13.00	-5.67	-1.90	Peak
3	7520.00	-29.38	-33.33	-13.00	-16.38	3.95	Peak
4	9400.00	-29.60	-36.03	-13.00	-16.60	6.43	Peak



A D T

MODE B

GSM:

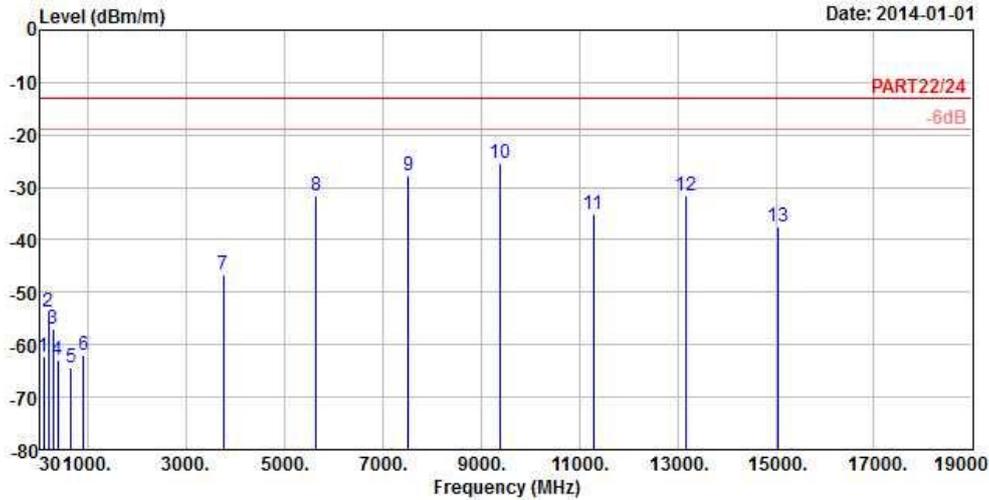


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2014-01-01



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91(Pad)  
 Remark : PCS1900\_Link  
 Tested by : Peter  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	101.82	-62.23	-51.79	-13.00	-49.23	-10.44	Peak
2	196.05	-53.78	-46.29	-13.00	-40.78	-7.49	Peak
3	284.61	-56.90	-50.74	-13.00	-43.90	-6.16	Peak
4	378.40	-63.00	-57.20	-13.00	-50.00	-5.80	Peak
5	648.60	-64.46	-64.98	-13.00	-51.46	0.52	Peak
6	906.90	-61.88	-64.71	-13.00	-48.88	2.83	Peak
7	3760.00	-46.72	-38.42	-13.00	-33.72	-8.30	Peak
8	5640.00	-31.63	-29.73	-13.00	-18.63	-1.90	Peak
9	7520.00	-27.66	-31.61	-13.00	-14.66	3.95	Peak
10 pp	9400.00	-25.31	-31.74	-13.00	-12.31	6.43	Peak
11	11280.00	-35.10	-43.24	-13.00	-22.10	8.14	Peak
12	13160.00	-31.53	-41.32	-13.00	-18.53	9.79	Peak
13	15040.00	-37.39	-46.77	-13.00	-24.39	9.38	Peak



A D T

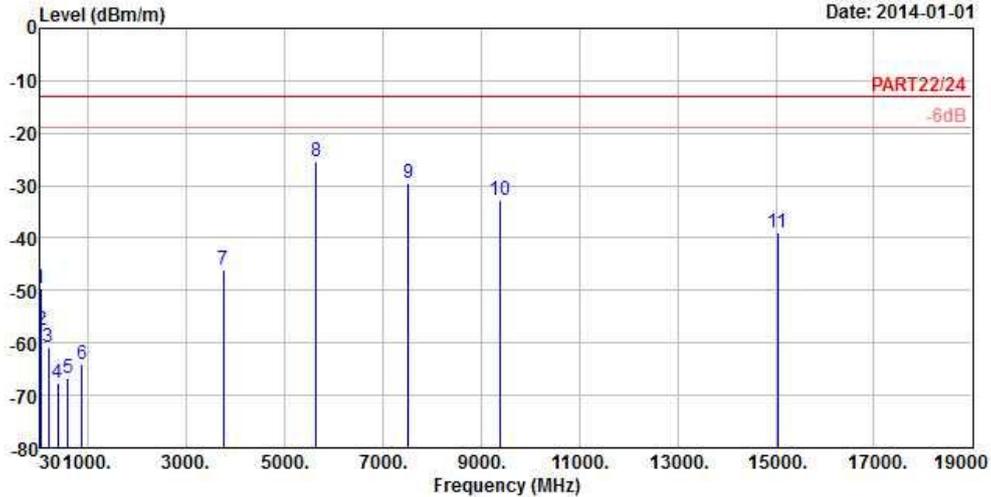


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2014-01-01



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91(Pad)  
 Remark : PCS1900\_Link  
 Tested by : Peter  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	38.91	-49.51	-47.77	-13.00	-36.51	-1.74	Peak
2	56.73	-57.43	-51.78	-13.00	-44.43	-5.65	Peak
3	196.59	-60.72	-53.11	-13.00	-47.72	-7.61	Peak
4	381.20	-67.53	-61.75	-13.00	-54.53	-5.78	Peak
5	597.50	-66.58	-66.15	-13.00	-53.58	-0.43	Peak
6	881.00	-64.15	-66.74	-13.00	-51.15	2.59	Peak
7	3760.00	-46.07	-37.77	-13.00	-33.07	-8.30	Peak
8 pp	5640.00	-25.53	-23.63	-13.00	-12.53	-1.90	Peak
9	7520.00	-29.40	-33.35	-13.00	-16.40	3.95	Peak
10	9400.00	-32.88	-39.31	-13.00	-19.88	6.43	Peak
11	15040.00	-38.82	-48.20	-13.00	-25.82	9.38	Peak



A D T

EDGE:

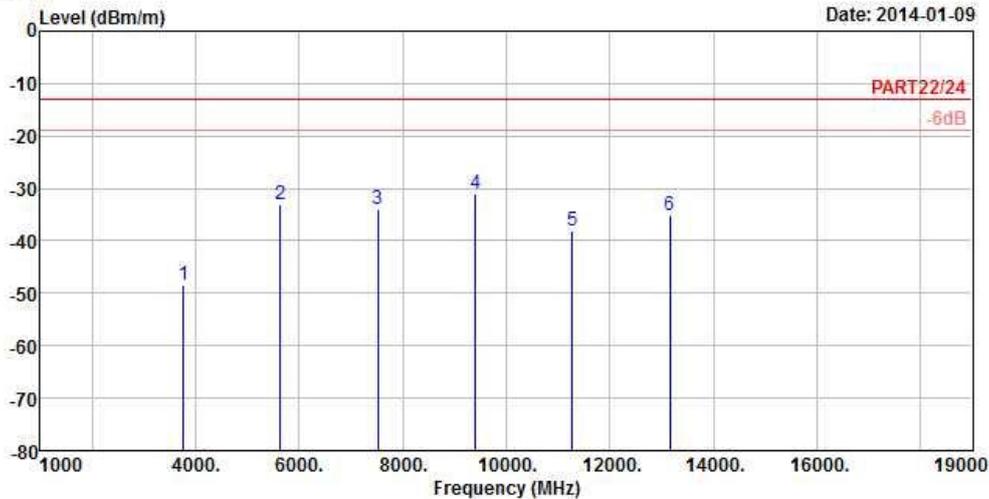


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-09



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91(Pad)  
 Remark : EDGE1900\_Link  
 Tested by : Peter  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-48.42	-40.12	-13.00	-35.42	-8.30	Peak
2	5640.00	-32.93	-31.03	-13.00	-19.93	-1.90	Peak
3	7520.00	-33.99	-37.94	-13.00	-20.99	3.95	Peak
4 pp	9400.00	-30.98	-37.41	-13.00	-17.98	6.43	Peak
5	11280.00	-37.95	-46.09	-13.00	-24.95	8.14	Peak
6	13160.00	-35.23	-45.02	-13.00	-22.23	9.79	Peak



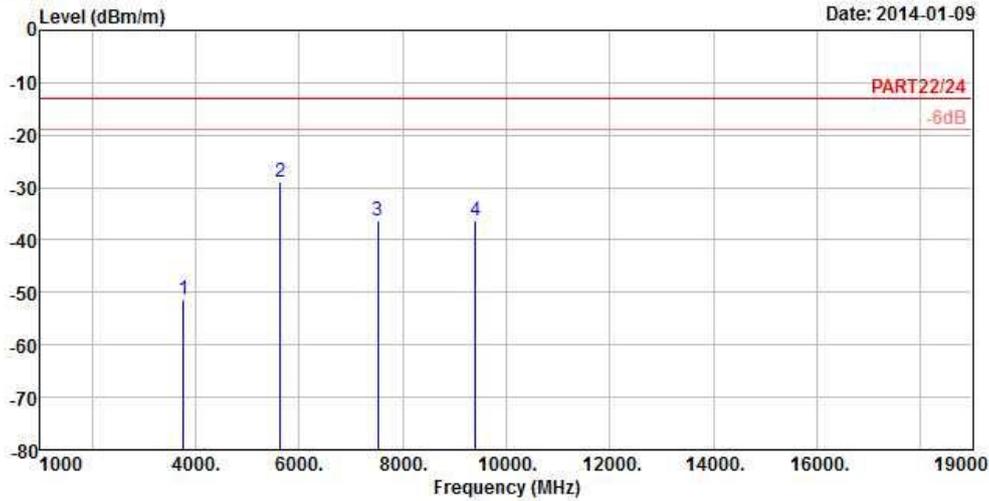
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91(Pad)  
 Remark : EDGE1900\_Link  
 Tested by : Peter  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	3760.00	-51.30	-43.00	-13.00	-38.30	-8.30	Peak
2	5640.00	-28.97	-27.07	-13.00	-15.97	-1.90	Peak
3	7520.00	-36.33	-40.28	-13.00	-23.33	3.95	Peak
4	9400.00	-36.20	-42.63	-13.00	-23.20	6.43	Peak



A D T

WCDMA:

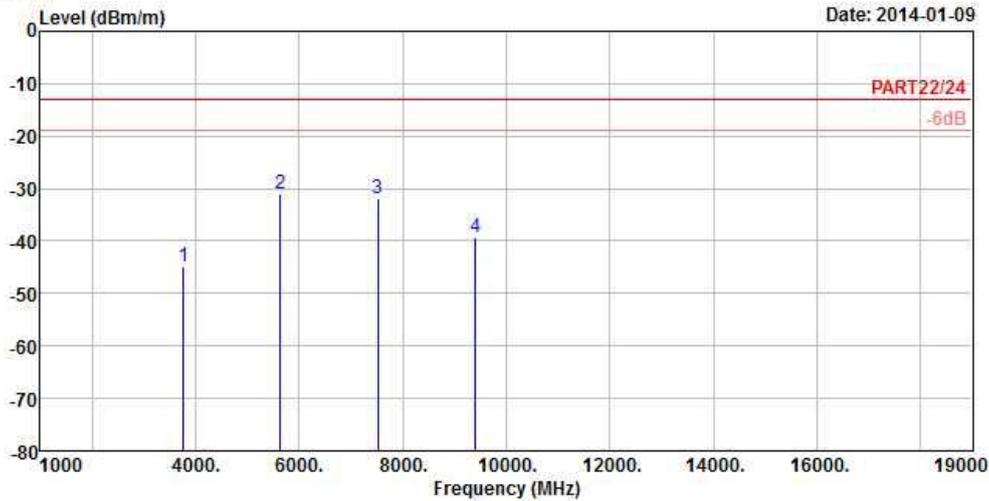


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-09



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91(Pad)  
 Remark : Band II\_Link  
 Tested by : Peter  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-44.93	-36.63	-13.00	-31.93	-8.30	Peak
2	5640.00	-31.05	-29.15	-13.00	-18.05	-1.90	Peak
3	7520.00	-31.85	-35.80	-13.00	-18.85	3.95	Peak
4	9400.00	-39.25	-45.68	-13.00	-26.25	6.43	Peak



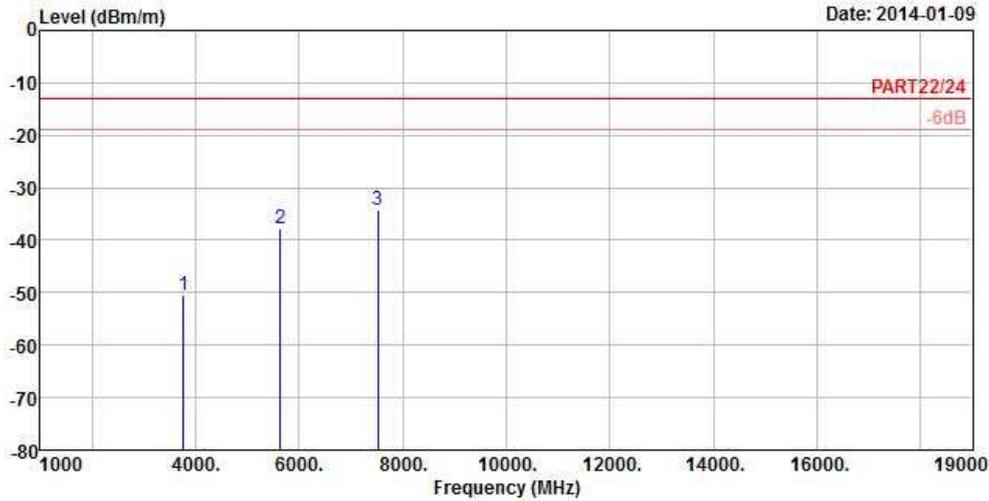
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91(Pad)  
 Remark : Band II\_Link  
 Tested by : Peter  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	3760.00	-50.61	-42.31	-13.00	-37.61	-8.30	Peak
2	5640.00	-37.79	-35.89	-13.00	-24.79	-1.90	Peak
3 pp	7520.00	-34.30	-38.25	-13.00	-21.30	3.95	Peak



A D T

### LTE BAND 2

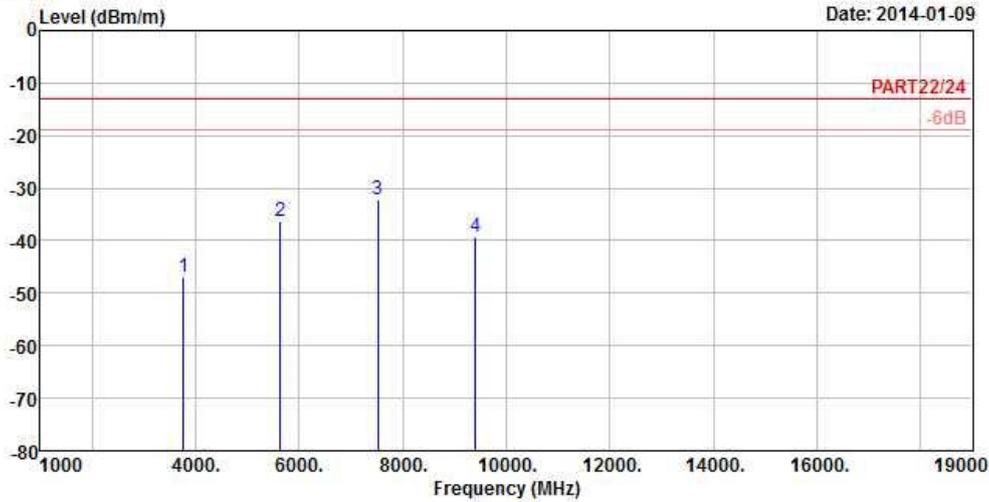
CHANNEL BANDWIDTH: 5MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91 (Phone+Pad)  
 Remark : LTE Band 2\_5M QPSK(1,12) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	3760.00	-47.05	-38.75	-13.00	-34.05	-8.30	Peak
2	5640.00	-36.28	-34.38	-13.00	-23.28	-1.90	Peak
3 pp	7520.00	-32.29	-36.24	-13.00	-19.29	3.95	Peak
4	9400.00	-39.22	-45.65	-13.00	-26.22	6.43	Peak



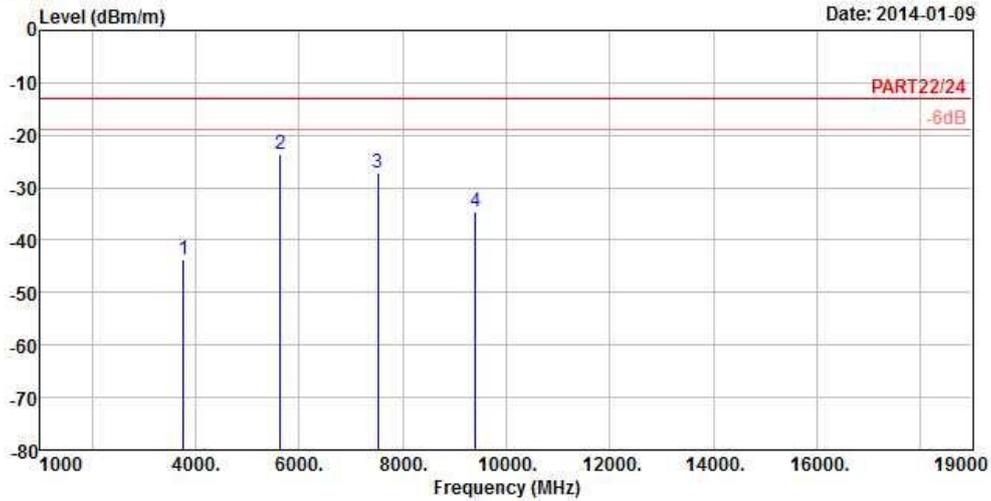
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91 (Phone+Pad)  
 Remark : LTE Band 2\_5M QPSK(1,12) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	3760.00	-43.70	-35.40	-13.00	-30.70	-8.30	Peak
2 pp	5640.00	-23.53	-21.63	-13.00	-10.53	-1.90	Peak
3	7520.00	-27.26	-31.21	-13.00	-14.26	3.95	Peak
4	9400.00	-34.64	-41.07	-13.00	-21.64	6.43	Peak



A D T

### LTE BAND 2

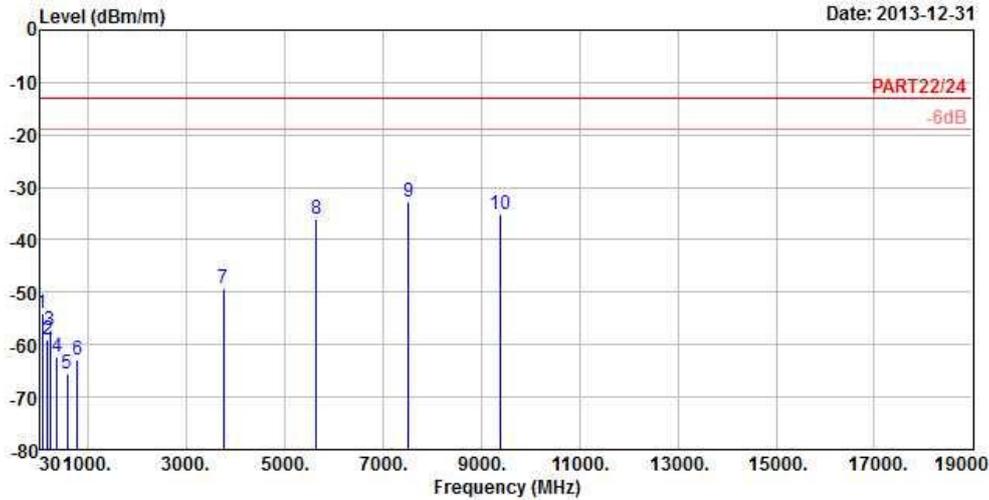
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5  
 Condition : PART22/24 3m HORIZONTAL  
 Brand/Model: A91 (Phone+Pad)  
 Remark : LTE Band 2\_10M QPSK(1,24) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	66.45	-53.91	-45.54	-13.00	-40.91	-8.37	Peak
2	174.18	-59.14	-52.35	-13.00	-46.14	-6.79	Peak
3	221.16	-57.36	-50.37	-13.00	-44.36	-6.99	Peak
4	360.90	-62.18	-56.25	-13.00	-49.18	-5.93	Peak
5	578.60	-65.50	-64.56	-13.00	-52.50	-0.94	Peak
6	787.90	-62.92	-64.96	-13.00	-49.92	2.04	Peak
7	3760.00	-49.35	-41.05	-13.00	-36.35	-8.30	Peak
8	5640.00	-35.97	-34.07	-13.00	-22.97	-1.90	Peak
9 pp	7520.00	-32.62	-36.57	-13.00	-19.62	3.95	Peak
10	9400.00	-35.26	-41.69	-13.00	-22.26	6.43	Peak



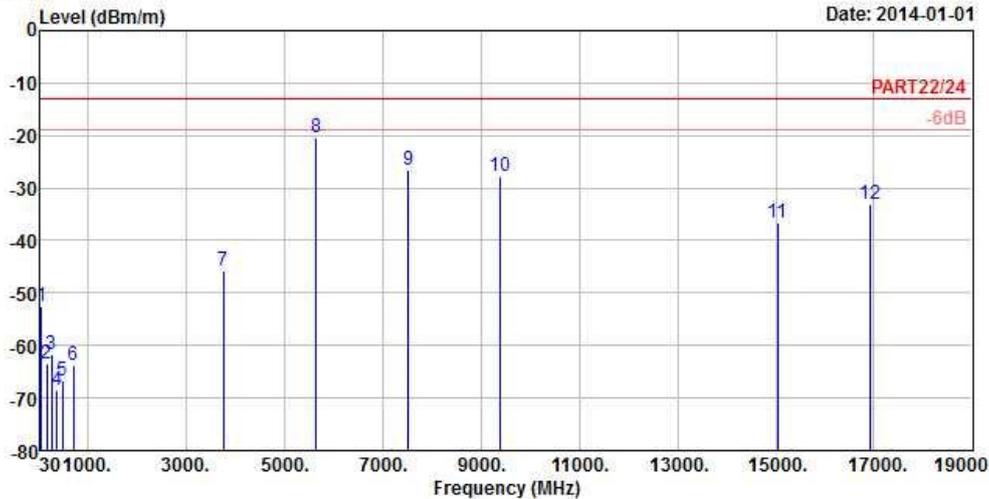
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5  
 Condition : PART22/24 3m VERTICAL  
 Brand/Model: A91 (Phone+Pad)  
 Remark : LTE Band 2\_10M QPSK(1,24) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	54.84	-52.43	-47.08	-13.00	-39.43	-5.35	Peak
2	169.05	-63.40	-56.72	-13.00	-50.40	-6.68	Peak
3	254.10	-61.67	-55.94	-13.00	-48.67	-5.73	Peak
4	365.80	-68.57	-62.68	-13.00	-55.57	-5.89	Peak
5	478.50	-66.64	-62.99	-13.00	-53.64	-3.65	Peak
6	695.50	-63.85	-65.21	-13.00	-50.85	1.36	Peak
7	3760.00	-45.70	-37.40	-13.00	-32.70	-8.30	Peak
8 pp	5640.00	-20.47	-18.57	-13.00	-7.47	-1.90	Peak
9	7520.00	-26.54	-30.49	-13.00	-13.54	3.95	Peak
10	9400.00	-27.84	-34.27	-13.00	-14.84	6.43	Peak
11	15040.00	-36.74	-46.12	-13.00	-23.74	9.38	Peak
12	16920.00	-32.93	-43.43	-13.00	-19.93	10.50	Peak



A D T

MODE C

GSM:

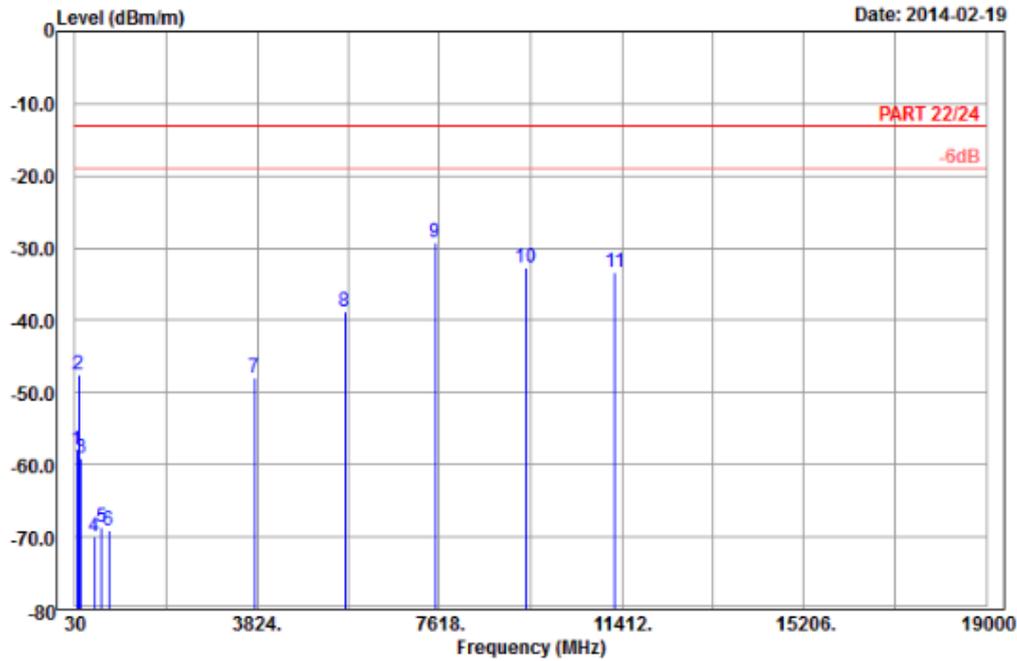


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-02-19



Site : 966 chamber 5  
 Condition : PART 22/24 3m Horizontal  
 Brand/Model: A91\_2nd  
 Remark : PCS 1900\_Link\_CH661  
 Tested by : Dylan Yang  
 Plane : Y

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	78.06	-58.09	-46.16	-13.00	-45.09	-11.93 Peak
2	97.23	-47.48	-37.19	-13.00	-34.48	-10.29 Peak
3	148.26	-59.12	-51.22	-13.00	-46.12	-7.90 Peak
4	428.10	-69.97	-66.61	-13.00	-56.97	-3.36 Peak
5	585.60	-68.75	-68.57	-13.00	-55.75	-0.18 Peak
6	735.40	-69.15	-68.11	-13.00	-56.15	-1.04 Peak
7	3760.00	-47.86	-64.00	-13.00	-34.86	16.14 Peak
8	5640.00	-38.79	-59.26	-13.00	-25.79	20.47 Peak
9 pp	7520.00	-29.14	-51.82	-13.00	-16.14	22.68 Peak
10	9400.00	-32.80	-58.57	-13.00	-19.80	25.77 Peak
11	11280.00	-33.36	-61.16	-13.00	-20.36	27.80 Peak



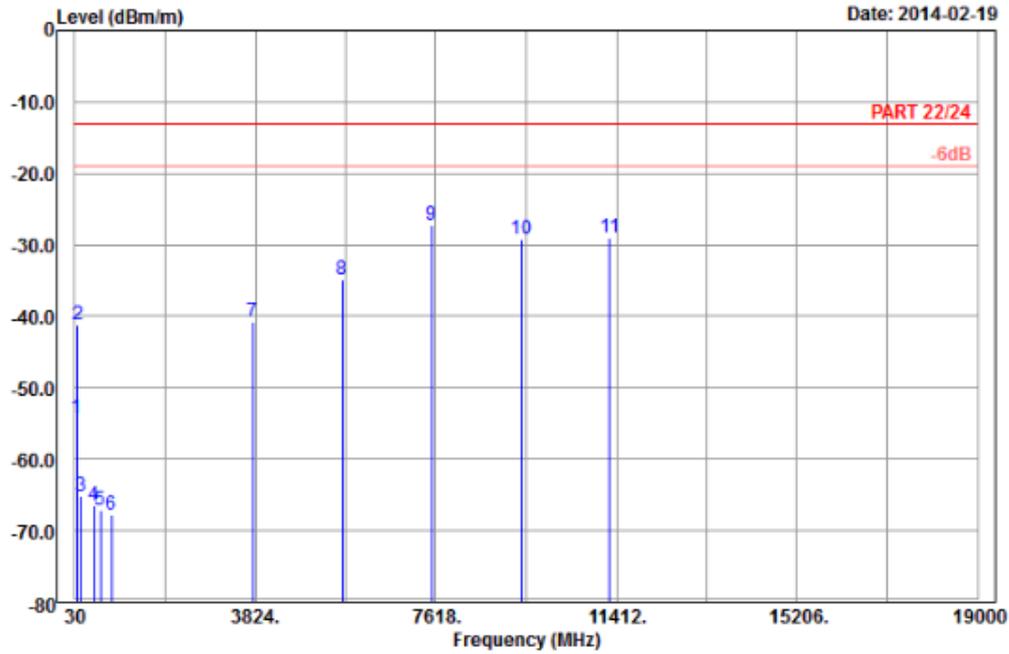
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 5  
 Condition : PART 22/24 3m Vertical  
 Brand/Model: A91\_2nd  
 Remark : PCS 1900\_Link\_CH661  
 Tested by : Dylan Yang  
 Plane : Y

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	78.33	-54.21	-42.28	-13.00	-41.21	-11.93 Peak
2	95.88	-41.25	-30.91	-13.00	-28.25	-10.34 Peak
3	148.80	-65.18	-57.28	-13.00	-52.18	-7.90 Peak
4	432.30	-66.49	-63.03	-13.00	-53.49	-3.46 Peak
5	571.60	-67.10	-66.32	-13.00	-54.10	-0.78 Peak
6	799.10	-67.74	-69.69	-13.00	-54.74	1.95 Peak
7	3760.00	-40.80	-56.94	-13.00	-27.80	16.14 Peak
8	5640.00	-34.85	-55.32	-13.00	-21.85	20.47 Peak
9	pp 7520.00	-27.33	-50.01	-13.00	-14.33	22.68 Peak
10	9400.00	-29.29	-55.06	-13.00	-16.29	25.77 Peak
11	11280.00	-29.02	-56.82	-13.00	-16.02	27.80 Peak



A D T

### LTE BAND 2

CHANNEL BANDWIDTH: 10MHz / QPSK

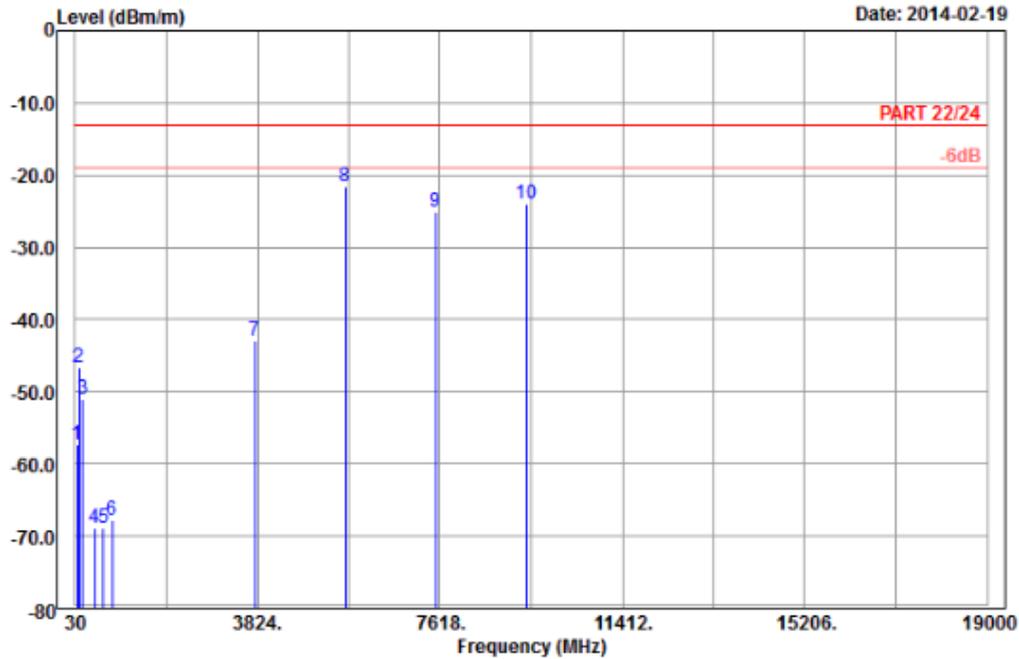


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-02-19



Site : 966 chamber 5  
 Condition : PART 22/24 3m Horizontal  
 Brand/Model: A91\_2nd  
 Remark : LTE\_Band 2 10M Link\_CH18900  
 Tested by : Dylan Yang  
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	77.79	-57.33	-45.31	-13.00	-44.33	-12.02	Peak
2	96.42	-46.68	-36.34	-13.00	-33.68	-10.34	Peak
3	190.65	-50.96	-45.18	-13.00	-37.96	-5.78	Peak
4	427.40	-68.90	-65.54	-13.00	-55.90	-3.36	Peak
5	623.40	-68.84	-69.00	-13.00	-55.84	0.16	Peak
6	794.90	-67.88	-69.57	-13.00	-54.88	1.69	Peak
7	3760.00	-42.99	-59.13	-13.00	-29.99	16.14	Peak
8 pp	5640.00	-21.59	-42.06	-13.00	-8.59	20.47	Peak
9	7520.00	-25.17	-47.85	-13.00	-12.17	22.68	Peak
10	9400.00	-24.08	-49.85	-13.00	-11.08	25.77	Peak



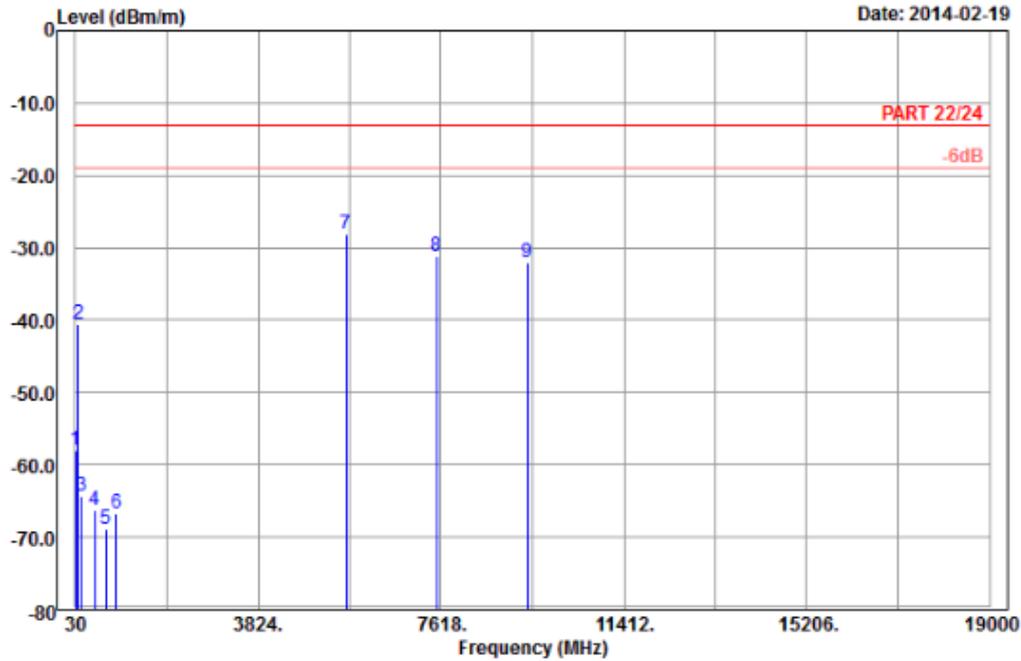
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 5  
 Condition : PART 22/24 3m Vertical  
 Brand/Model: A91\_2nd  
 Remark : LTE\_Band 2 10M Link\_CH18900  
 Tested by : Dylan Yang  
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	44.31	-58.07	-45.90	-13.00	-45.07	-12.17	Peak
2	95.61	-40.65	-30.31	-13.00	-27.65	-10.34	Peak
3	147.45	-64.23	-56.35	-13.00	-51.23	-7.88	Peak
4	427.40	-66.27	-62.91	-13.00	-53.27	-3.36	Peak
5	657.70	-68.79	-68.62	-13.00	-55.79	-0.17	Peak
6	887.30	-66.70	-69.23	-13.00	-53.70	2.53	Peak
7 pp	5640.00	-28.17	-48.64	-13.00	-15.17	20.47	Peak
8	7520.00	-31.11	-53.79	-13.00	-18.11	22.68	Peak
9	9400.00	-31.97	-57.74	-13.00	-18.97	25.77	Peak



A D T

MODE D

GSM:

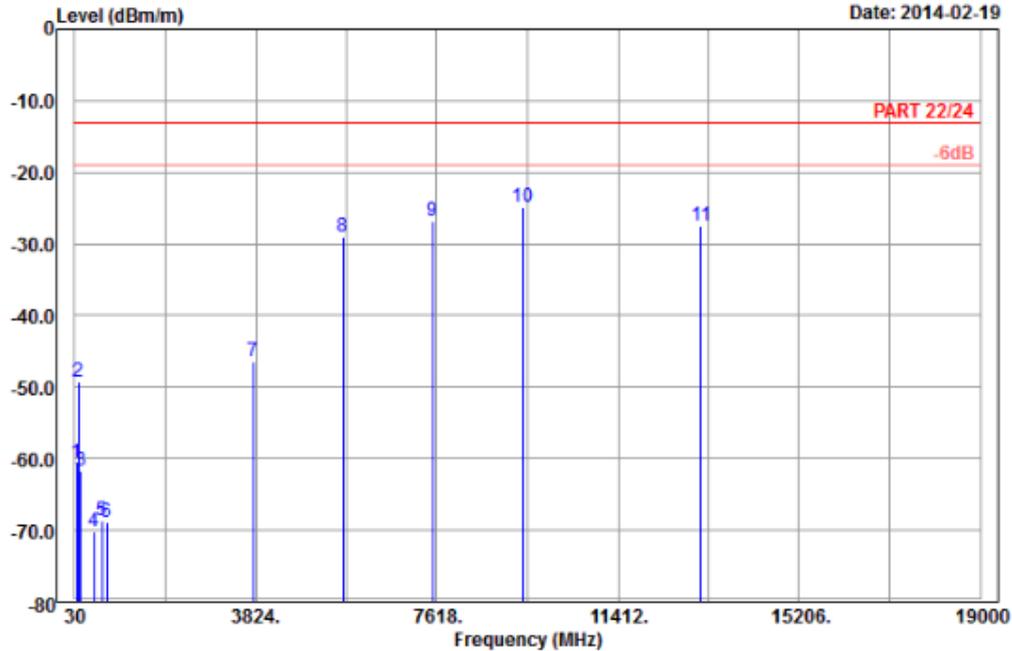


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-02-19



Site : 966 chamber 5  
 Condition : PART 22/24 3m Horizontal  
 Brand/Model: A91\_2nd  
 Remark : PCS 1900\_Link\_CH661 (phone+pad)  
 Tested by : Dylan Yang  
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	76.17	-60.61	-48.51	-13.00	-47.61	-12.10	Peak
2	96.42	-49.37	-39.03	-13.00	-36.37	-10.34	Peak
3	146.10	-61.77	-53.91	-13.00	-48.77	-7.86	Peak
4	428.80	-70.15	-66.77	-13.00	-57.15	-3.38	Peak
5	591.90	-68.62	-68.69	-13.00	-55.62	0.07	Peak
6	701.80	-68.79	-68.38	-13.00	-55.79	-0.41	Peak
7	3760.00	-46.44	-62.58	-13.00	-33.44	16.14	Peak
8	5640.00	-29.07	-49.54	-13.00	-16.07	20.47	Peak
9	7520.00	-26.74	-49.42	-13.00	-13.74	22.68	Peak
10 pp	9400.00	-24.89	-50.66	-13.00	-11.89	25.77	Peak
11	13160.00	-27.52	-58.52	-13.00	-14.52	31.00	Peak



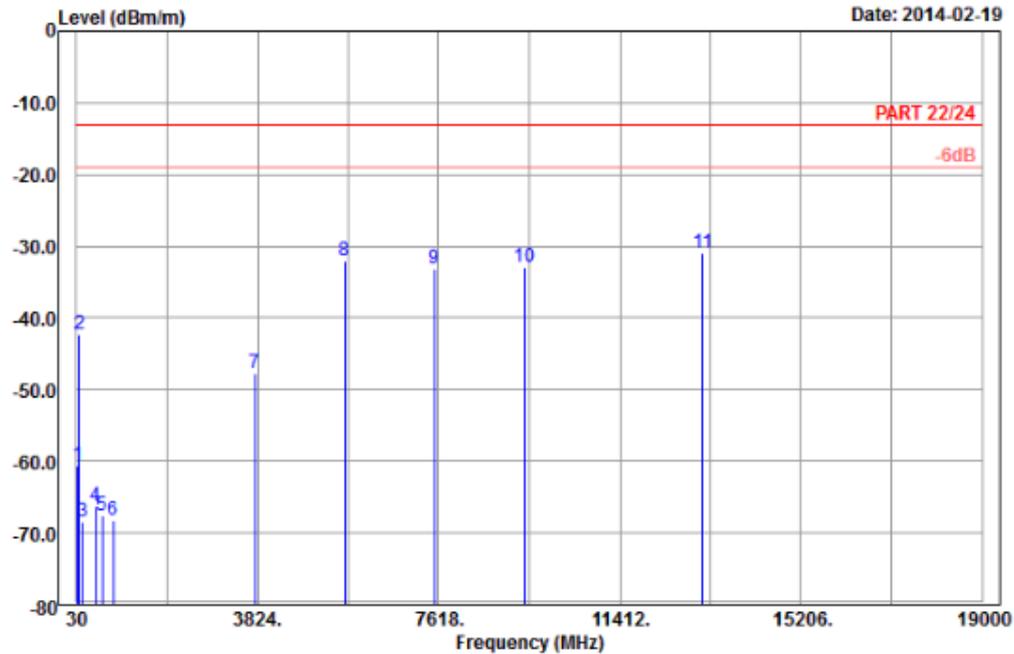
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 5  
 Condition : PART 22/24 3m Vertical  
 Brand/Model: A91\_2nd  
 Remark : PCS 1900\_Link\_CH661 (phone+pad)  
 Tested by : Dylan Yang  
 Plane : Z

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	61.59	-60.63	-46.84	-13.00	-47.63	-13.79 Peak
2	95.34	-42.28	-31.88	-13.00	-29.28	-10.40 Peak
3	148.53	-68.34	-60.44	-13.00	-55.34	-7.90 Peak
4	430.90	-66.33	-62.91	-13.00	-53.33	-3.42 Peak
5	573.00	-67.59	-66.89	-13.00	-54.59	-0.70 Peak
6	794.20	-68.18	-69.81	-13.00	-55.18	1.63 Peak
7	3760.00	-47.66	-63.80	-13.00	-34.66	16.14 Peak
8	5640.00	-31.94	-52.41	-13.00	-18.94	20.47 Peak
9	7520.00	-33.12	-55.80	-13.00	-20.12	22.68 Peak
10	9400.00	-32.92	-58.69	-13.00	-19.92	25.77 Peak
11	pp 13160.00	-30.93	-61.93	-13.00	-17.93	31.00 Peak



A D T

### LTE BAND 2

CHANNEL BANDWIDTH: 10MHz / QPSK

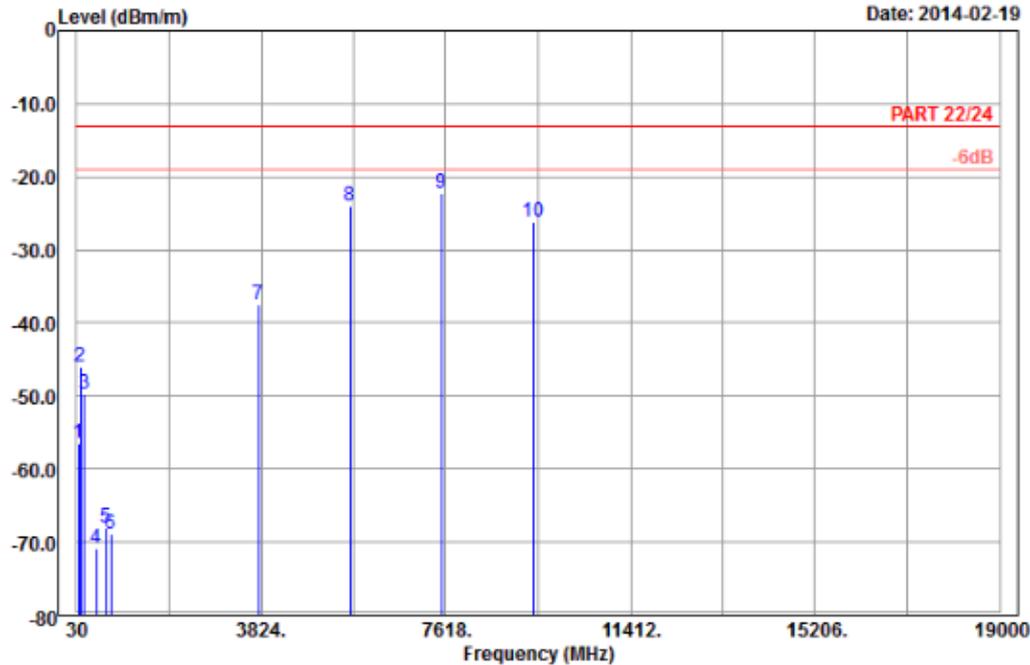


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-02-19



Site : 966 chamber 5  
 Condition : PART 22/24 3m Horizontal  
 Brand/Model: A91\_2nd  
 Remark : LTE B2 10M\_Link\_CH18900 (phone+pad)  
 Tested by : Dylan Yang  
 Plane : Z

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	78.60	-56.54	-44.61	-13.00	-43.54	-11.93 Peak
2	96.69	-45.96	-35.67	-13.00	-32.96	-10.29 Peak
3	192.81	-49.70	-43.83	-13.00	-36.70	-5.87 Peak
4	437.20	-70.92	-67.35	-13.00	-57.92	-3.57 Peak
5	627.60	-68.05	-68.17	-13.00	-55.05	0.12 Peak
6	731.20	-68.97	-68.01	-13.00	-55.97	-0.96 Peak
7	3760.00	-37.47	-53.61	-13.00	-24.47	16.14 Peak
8	5640.00	-24.01	-44.48	-13.00	-11.01	20.47 Peak
9	pp 7520.00	-22.20	-44.88	-13.00	-9.20	22.68 Peak
10	9400.00	-26.06	-51.83	-13.00	-13.06	25.77 Peak



A D T

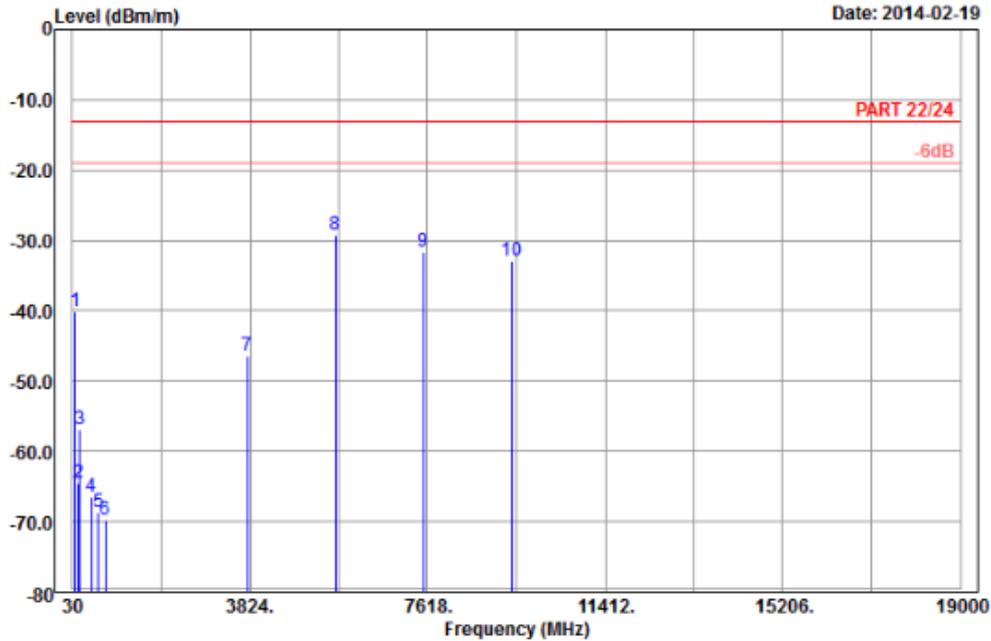


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-02-19



Site : 966 chamber 5  
 Condition : PART 22/24 3m Vertical  
 Brand/Model: A91\_2nd  
 Remark : LTE B2 10M\_Link\_CH18900 (phone+pad)  
 Tested by : Dylan Yang  
 Plane : Z

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	95.88	-40.16	-29.82	-13.00	-27.16	-10.34 Peak
2	149.07	-64.52	-56.59	-13.00	-51.52	-7.93 Peak
3	189.84	-56.95	-51.22	-13.00	-43.95	-5.73 Peak
4	435.80	-66.43	-62.90	-13.00	-53.43	-3.53 Peak
5	581.40	-68.61	-68.23	-13.00	-55.61	-0.38 Peak
6	738.20	-69.81	-68.72	-13.00	-56.81	-1.09 Peak
7	3760.00	-46.44	-62.58	-13.00	-33.44	16.14 Peak
8 pp	5640.00	-29.22	-49.69	-13.00	-16.22	20.47 Peak
9	7520.00	-31.62	-54.30	-13.00	-18.62	22.68 Peak
10	9400.00	-33.01	-58.78	-13.00	-20.01	25.77 Peak



A D T

## 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](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://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---**