

## FCC Test Report

### (PART 90S)

**Report No.:** RF171130C26-4

**FCC ID:** HD5-660W

**Test Model:** SOM660W

**Received Date:** Nov. 30, 2017

**Test Date:** Dec. 27, 2017 ~ Jan. 24, 2018

**Issued Date:** Jan. 26, 2018

**Applicant:** Honeywell International Inc.

**Address:** 9680 Old Bailes Road, Fort Mill, SC 29707 USA

**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 (1):** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

**FCC Registration /  
Designation Number:** 788550 / TW0003



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## Table of Contents

<b>Release Control Record .....</b>	<b>3</b>
<b>1 Certificate of Conformity .....</b>	<b>4</b>
<b>2 Summary of Test Results.....</b>	<b>5</b>
2.1 Measurement Uncertainty.....	5
2.2 Test Site and Instruments .....	6
<b>3 General Information .....</b>	<b>8</b>
3.1 General Description of EUT .....	8
3.2 Configuration of System under Test.....	9
3.2.1 Description of Support Units .....	9
3.3 Test Mode Applicability and Tested Channel Detail .....	10
3.4 EUT Operating Conditions .....	12
3.5 General Description of Applied Standards.....	12
<b>4 Test Types and Results .....</b>	<b>13</b>
4.1 Output Power Measurement.....	13
4.1.1 Limits of Output Power Measurement .....	13
4.1.2 Test Procedures.....	13
4.1.3 Test Setup.....	14
4.1.4 Test Results .....	15
4.2 Frequency Stability Measurement .....	20
4.2.1 Limits of Frequency Stability Measurement.....	20
4.2.2 Test Procedure .....	20
4.2.3 Test Setup.....	20
4.2.4 Test Results .....	21
4.3 Occupied Bandwidth Measurement.....	26
4.3.1 Test Procedure .....	26
4.3.2 Test Setup.....	26
4.3.3 Test Result .....	26
4.4 Emission Mask Measurement.....	29
4.4.1 Limits of Band Edge Measurement .....	29
4.4.2 Test Setup.....	29
4.4.3 Test Procedures.....	29
4.4.4 Test Results .....	29
4.5 Conducted Spurious Emissions.....	34
4.5.1 Limits of Conducted Spurious Emissions Measurement.....	34
4.5.2 Test Setup.....	34
4.5.3 Test Procedure .....	34
4.5.4 Test Results .....	35
4.6 Radiated Emission Measurement.....	43
4.6.1 Limits of Radiated Emission Measurement .....	43
4.6.2 Test Procedure .....	43
4.6.3 Deviation from Test Standard .....	43
4.6.4 Test Setup.....	44
4.6.5 Test Results .....	45
<b>5 Pictures of Test Arrangements.....</b>	<b>57</b>
<b>Appendix – Information on the Testing Laboratories .....</b>	<b>58</b>

### Release Control Record

Issue No.	Description	Date Issued
RF171130C26-4	Original Release	Jan. 26, 2018

## 1 Certificate of Conformity

**Product:** HSOM660

**Brand:** Honeywell

**Test Model:** SOM660W

**Sample Status:** Engineering Sample

**Applicant:** Honeywell International Inc.

**Test Date:** Dec. 27, 2017 ~ Jan. 24, 2018

**Standards:** FCC Part 90, Subpart S

The above equipment 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 RF characteristics under the conditions specified in this report.

**Prepared by :** , **Date:** Jan. 26, 2018  
Vera Huang / Specialist

**Approved by :** , **Date:** Jan. 26, 2018  
Dylan Chiou / Project Engineer

## 2 Summary of Test Results

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.635 (b)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1055 90.213	Frequency Stability	Pass	Meet the requirement of limit.
2.1049 90.209	Occupied Bandwidth (*)	Pass	Meet the requirement of limit.
2.1051 90.209	Emission Masks	Pass	Meet the requirement of limit.
2.1051 90.691	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 90.691	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -47.91 dB at 1641.00 MHz.

### 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	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

## 2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Feb. 17, 2017	Feb. 16, 2018
Spectrum Analyzer Agilent	N9010A	MY52220314	Nov. 24, 2017	Nov. 23, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	100115	Nov. 23, 2017	Nov. 22, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2017	Dec. 11, 2018
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 23, 2017	Jun. 22, 2018
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Loop Antenna	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier EMCI	EMC001340	980201	Nov. 01, 2017	Oct. 30, 2018
Bluetooth Tester	CBT	100946	Jul. 29, 2016	Jul. 28, 2018
Preamplifier EMCI	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 184045	980116	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 330H	980112	Oct. 13, 2017	Oct. 12, 2018
Power Meter Anritsu	ML2495A	1012010	Aug. 15, 2017	Aug. 14, 2018
Power Sensor Anritsu	MA2411B	1315050	Aug. 15, 2017	Aug. 14, 2018
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-8 000&3000	140811+170717	Oct. 20, 2017	Oct. 19, 2018

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 20, 2017	Oct. 19, 2018
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 / 24 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 preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The IC Site Registration No. is IC7450F-10.

### 3 General Information

#### 3.1 General Description of EUT

<b>Product</b>	HSOM660	
<b>Brand</b>	Honeywell	
<b>Test Model</b>	SOM660W	
<b>Status of EUT</b>	Engineering Sample	
<b>HW Version</b>	V2.0	
<b>HW P/N</b>	22	
<b>SW Version</b>	HON.01.004	
<b>SW P/N</b>	351D	
<b>Power Supply Rating</b>	3.85 Vdc (battery)	
<b>Modulation Type</b>	CDMA	QPSK, OQPSK, HPSK
	LTE	QPSK, 16QAM, 64QAM
<b>Frequency Range</b>	CDMA BC10	817.9 ~ 823.1 MHz
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	814.7 ~ 823.3 MHz
	LTE Band 26 (Channel Bandwidth: 3 MHz)	815.5 ~ 822.5 MHz
	LTE Band 26 (Channel Bandwidth: 5 MHz)	816.5 ~ 821.5 MHz
	LTE Band 26 (Channel Bandwidth: 10 MHz)	819 MHz
<b>Emission Designator</b>	CDMA BC10	1M28F9W
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 26 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 26 (Channel Bandwidth: 5 MHz)	4M50W7D
	LTE Band 26 (Channel Bandwidth: 10 MHz)	8M99W7D
<b>Max. ERP Power</b>	CDMA BC10	331.13 mW
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	159.22 mW
	LTE Band 26 (Channel Bandwidth: 3 MHz)	172.19 mW
	LTE Band 26 (Channel Bandwidth: 5 MHz)	165.96 mW
	LTE Band 26 (Channel Bandwidth: 10 MHz)	171.79 mW
<b>Antenna Type</b>	PIFA Antenna	
<b>Accessory Device</b>	Refer to Note as below	
<b>Data Cable Supplied</b>	N/A	

Note:

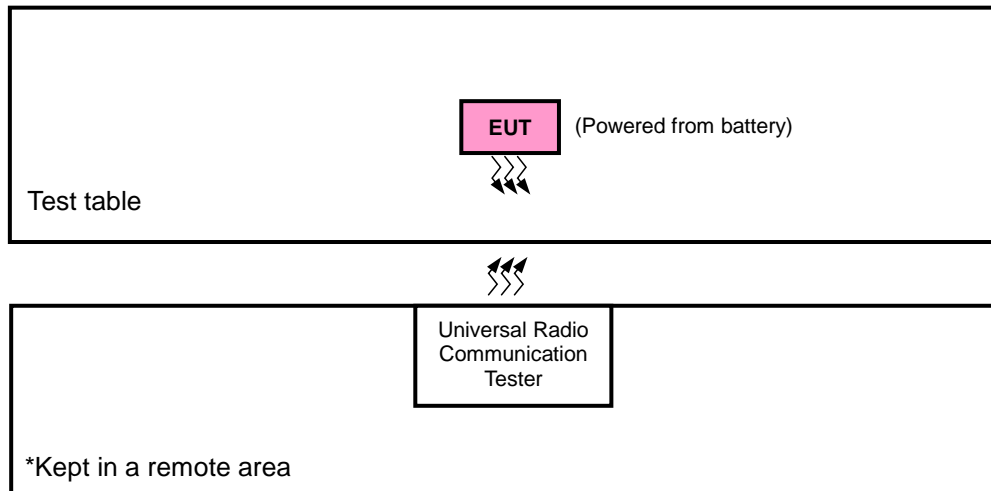
- The EUT has been tested with following support unit.

Product	Brand	Model	Description
Battery	Inventus Power Inc.	CW-BAT	3.85 Vdc, 5800 mAh

- The above EUT information is 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



#### 3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

### 3.3 Test Mode Applicability and Tested Channel Detail

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

Band	ERP	Radiated Emission
CDMA	Y-plane	X-axis
LTE Band 26	Z-plane	Z-axis

#### CDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	476 to 684	476, 580, 684	1xRTT
-	Frequency Stability	476 to 684	476, 684	1xRTT
-	Occupied Bandwidth	476 to 684	476, 580, 684	1xRTT
-	Emission Mask	476 to 684	476, 580, 684	1xRTT
-	Conducted Emission	476 to 684	476, 580, 684	1xRTT
-	Radiated Emission	476 to 684	476, 580, 684	1xRTT

### LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	Frequency Stability	26697 to 26783	26697, 26783	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26705, 26775	3 MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26765	5 MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 0 RB Offset
-	Occupied Bandwidth	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
-	Emission Mask	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
-	Conducted Emission	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	26740	26740	10 MHz	QPSK	1 RB / 0 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	25 deg. C, 65 % RH	3.85 Vdc	Jisyong Wang / Getaz Yang
Frequency Stability	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Occupied Bandwidth	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Peak to Average Ratio	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Emission Mask	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Condcudeted Emission	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Radiated Emission	25 deg. C, 65 % RH	3.85 Vdc	Jisyong Wang / Getaz Yang

### **3.4 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

### **3.5 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 90**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

**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 100 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 5 MHz for CDMA and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$ .

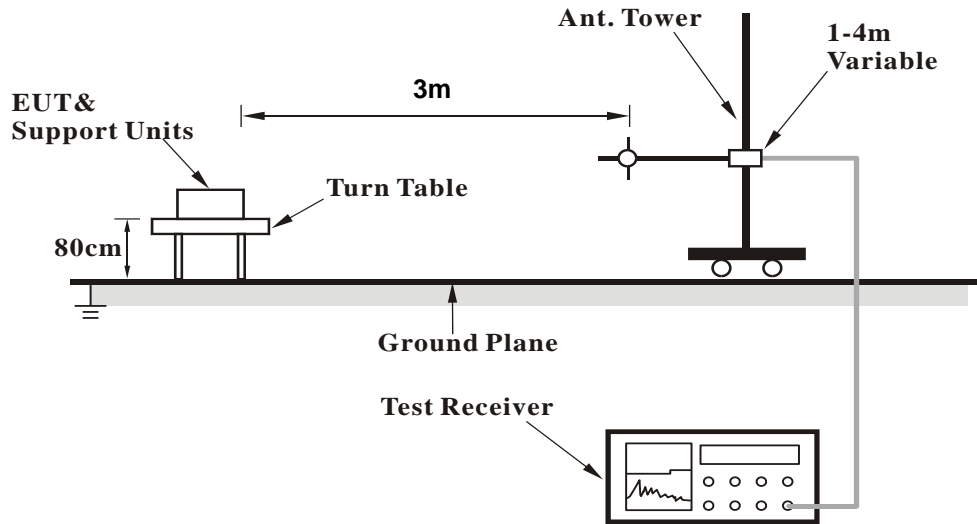
##### **Conducted Power Measurement:**

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

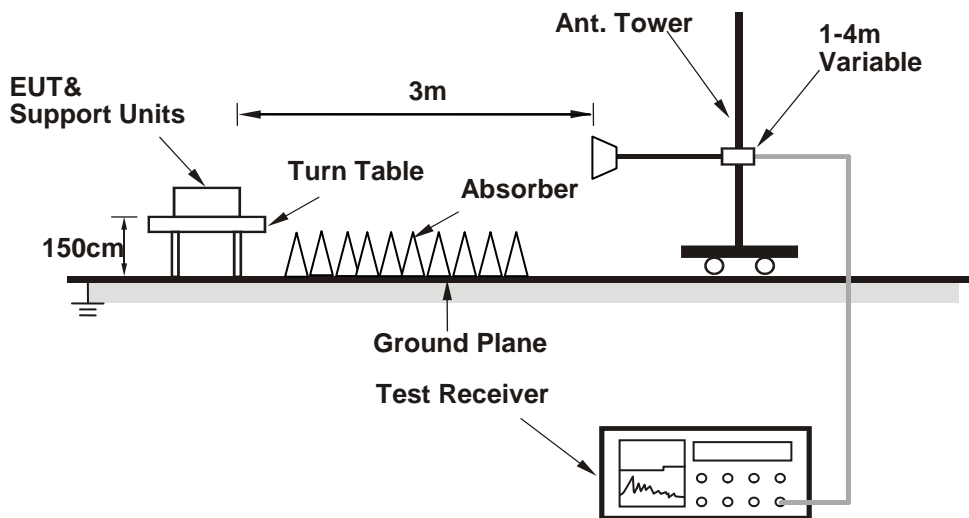
4.1.3 Test Setup

**EIRP / ERP Measurement:**

**<Radiated Emission below or equal 1 GHz>**

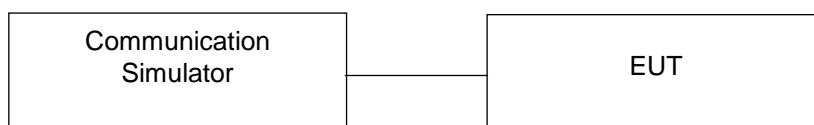


**<Radiated Emission above 1 GHz>**



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

**Conducted Power Measurement:**



4.1.4 Test Results

Conducted Output Power (dBm)

Band	CDMA		
Channel	476	580	684
Frequency (MHz)	817.9	820.5	823.1
RC1+SO55	23.96	23.85	23.94
RC3+SO55	24.07	23.96	24.05
RC3+SO32(+ F-SCH)	24.09	23.98	24.07
RC3+SO32(+SCH)	23.95	23.84	23.93
RTAP 153.6	23.93	23.82	23.91
RETAP 4096	23.72	23.61	23.70

LTE Band 26																	
BW	MCS Index	RB Size	RB Offset	Mid			3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
				26740	26740	26740						26715	26740	26765			
				Channel Frequency (MHz)	819.0	819.0						Channel Frequency (MHz)	816.5	819.0		821.5	
10M	QPSK	1	0	23.48		0	5M	QPSK	1	0	23.40	23.78	23.77	0			
		1	24	23.39		0			1	12	23.31	23.82	23.84	0			
		1	49	23.59		0			1	24	23.51	23.78	23.77	0			
		25	0	22.52		1			12	0	22.44	22.79	22.79	1			
		25	12	22.49		1			12	6	22.41	22.93	22.93	1			
		25	25	22.61		1			12	13	22.53	22.91	22.81	1			
	16QAM	50	0	22.46		1		25	0	22.38	22.86	22.81	1				
		1	0	22.42		1		16QAM	1	0	22.34	23.10	23.05	1			
		1	24	22.33		1			1	12	22.25	23.44	23.15	1			
		1	49	22.53		1			1	24	22.45	23.30	23.03	1			
		25	0	21.46		2			12	0	21.38	21.78	21.89	2			
		25	12	21.43		2			12	6	21.35	21.77	22.00	2			
	25	25	21.55		2	12			13	21.47	21.67	21.89	2				
	64QAM	50	0	21.40		2		25	0	21.32	21.78	21.90	2				
		1	0	21.35		2		64QAM	1	0	21.27	21.67	21.66	2			
		1	24	21.26		2			1	12	21.18	21.71	21.73	2			
		1	49	21.46		2			1	24	21.38	21.67	21.66	2			
		25	0	20.39		3			12	0	20.31	20.68	20.68	3			
		25	12	20.36		3			12	6	20.28	20.82	20.82	3			
	25	25	20.48		3	12			13	20.40	20.80	20.70	3				
	3M	QPSK	50	0	20.33			3	25	0	20.25	20.75	20.70	3			
			1	0	23.33	23.73		23.72	0	1.4M	QPSK	1	0	23.20	23.65	23.64	0
			1	7	23.24	23.77		23.79	0			1	2	23.11	23.69	23.71	0
			1	14	23.44	23.73		23.72	0			1	5	23.31	23.65	23.64	0
8			0	22.37	22.74	22.74	1	3	0			23.14	23.66	23.66	0		
8			3	22.34	22.88	22.88	1	3	1			23.11	23.80	23.80	0		
8		7	22.46	22.86	22.76	1	3	3	23.23			23.78	23.68	0			
16QAM		15	0	22.31	22.81	22.76	1	6	0		22.18	22.73	22.68	1			
		1	0	22.27	23.04	22.97	1	16QAM	1		0	22.14	23.00	22.93	1		
		1	7	22.18	23.38	23.07	1		1		2	22.05	23.34	23.03	1		
		1	14	22.38	23.24	22.95	1		1		5	22.25	23.20	22.91	1		
		8	0	21.31	21.72	21.81	2		3		0	22.08	22.68	22.77	1		
		8	3	21.28	21.71	21.92	2		3		1	22.05	22.67	22.88	1		
8		7	21.40	21.61	21.81	2	3		3		22.17	22.57	22.77	1			
64QAM		15	0	21.25	21.72	21.82	2	6	0		21.12	21.68	21.78	2			
		1	0	21.20	21.62	21.61	2	64QAM	1		0	21.07	21.57	21.56	2		
		1	7	21.11	21.66	21.68	2		1		2	20.98	21.03	21.63	2		
		1	14	21.31	21.62	21.61	2		1		5	21.18	21.57	21.56	2		
		8	0	20.24	20.63	20.63	3		3		0	21.01	21.58	21.58	2		
		8	3	20.21	20.77	20.77	3		3		1	20.98	21.72	21.72	2		
8		7	20.33	20.75	20.65	3	3		3		21.10	21.70	21.60	2			
3M		QPSK	15	0	20.18	20.70	20.65	3	6		0	20.05	20.65	20.60	3		

**ERP Power (dBm)**

CDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	476	817.9	-5.49	31.208	23.56	227.20	H
	580	820.5	-4.68	31.3	24.47	280.03	
	684	823.1	-3.87	31.222	25.20	331.13	
	476	817.9	-9.37	31.504	19.98	99.63	V
	580	820.5	-8.05	31.117	20.92	123.65	
	684	823.1	-8.09	31.922	21.68	147.23	

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26697	814.7	-12.92	32.01	16.94	49.43	H
	26740	819.0	-12.68	32.11	17.28	53.46	
	26783	823.3	-12.65	32.32	17.52	56.49	
	26697	814.7	-8.84	32.54	21.55	142.89	V
	26740	819.0	-8.66	32.51	21.70	147.91	
	26783	823.3	-8.34	32.51	22.02	159.22	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	26697	814.7	-13.84	32.01	16.02	39.99	H
	26740	819.0	-13.74	32.11	16.22	41.88	
	26783	823.3	-13.68	32.32	16.49	44.57	
	26697	814.7	-9.85	32.54	20.54	113.24	V
	26740	819.0	-9.65	32.51	20.71	117.76	
	26783	823.3	-9.39	32.51	20.97	125.03	
Channel Bandwidth: 1.4 MHz / 64QAM							
Z	26697	814.7	-14.93	32.01	14.93	31.12	H
	26740	819.0	-14.82	32.11	15.14	32.66	
	26783	823.3	-14.72	32.32	15.45	35.08	
	26697	814.7	-10.91	32.54	19.48	88.72	V
	26740	819.0	-10.68	32.51	19.68	92.90	
	26783	823.3	-10.47	32.51	19.89	97.50	



LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26705	815.5	-12.49	32.02	17.38	54.70	H
	26740	819.0	-12.45	32.11	17.51	56.36	
	26775	822.5	-12.26	32.18	17.77	59.84	
	26705	815.5	-8.43	32.5	21.92	155.60	V
	26740	819.0	-8.38	32.51	21.98	157.76	
	26775	822.5	-7.96	32.47	22.36	172.19	
Channel Bandwidth: 3 MHz / 16QAM							
Z	26705	815.5	-13.51	32.02	16.36	43.25	H
	26740	819.0	-13.53	32.11	16.43	43.95	
	26775	822.5	-13.30	32.18	16.73	47.10	
	26705	815.5	-9.49	32.5	20.86	121.90	V
	26740	819.0	-9.42	32.51	20.94	124.17	
	26775	822.5	-8.97	32.47	21.35	136.46	
Channel Bandwidth: 3 MHz / 64QAM							
Z	26705	815.5	-14.59	32.02	15.28	33.73	H
	26740	819.0	-14.58	32.11	15.38	34.51	
	26775	822.5	-14.36	32.18	15.67	36.90	
	26705	815.5	-10.58	32.5	19.77	94.84	V
	26740	819.0	-10.46	32.51	19.90	97.72	
	26775	822.5	-10.03	32.47	20.29	106.91	

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26715	816.5	-12.36	32.04	17.53	56.62	H
	26740	819.0	-12.23	32.11	17.73	59.29	
	26765	821.5	-12.00	31.79	17.64	58.08	
	26715	816.5	-8.28	32.52	22.09	161.81	V
	26740	819.0	-8.16	32.51	22.20	165.96	
	26765	821.5	-7.92	32.17	22.10	162.18	
Channel Bandwidth: 5 MHz / 16QAM							
Z	26715	816.5	-13.38	32.04	16.51	44.77	H
	26740	819.0	-13.27	32.11	16.69	46.67	
	26765	821.5	-13.08	31.79	16.56	45.29	
	26715	816.5	-9.32	32.52	21.05	127.35	V
	26740	819.0	-9.21	32.51	21.15	130.32	
	26765	821.5	-8.99	32.17	21.03	126.77	
Channel Bandwidth: 5 MHz / 64QAM							
Z	26715	816.5	-14.39	32.04	15.50	35.48	H
	26740	819.0	-14.32	32.11	15.64	36.64	
	26765	821.5	-14.16	31.79	15.48	35.32	
	26715	816.5	-10.35	32.52	20.02	100.46	V
	26740	819.0	-10.26	32.51	20.10	102.33	
	26765	821.5	-10.01	32.17	20.01	100.23	

**LTE Band 26**

**Channel Bandwidth: 10 MHz / QPSK**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26740	819.0	-12.10	32.11	17.86	61.09	H
	26740	819.0	-8.01	32.51	22.35	171.79	V

**Channel Bandwidth: 10 MHz / 16QAM**

Z	26740	819.0	-13.12	32.11	16.84	48.31	H
	26740	819.0	-9.04	32.51	21.32	135.52	V

**Channel Bandwidth: 10 MHz / 64QAM**

Z	26740	819.0	-14.18	32.11	15.78	37.84	H
	26740	819.0	-10.08	32.51	20.28	106.66	V

## 4.2 Frequency Stability Measurement

### 4.2.1 Limits of Frequency Stability Measurement

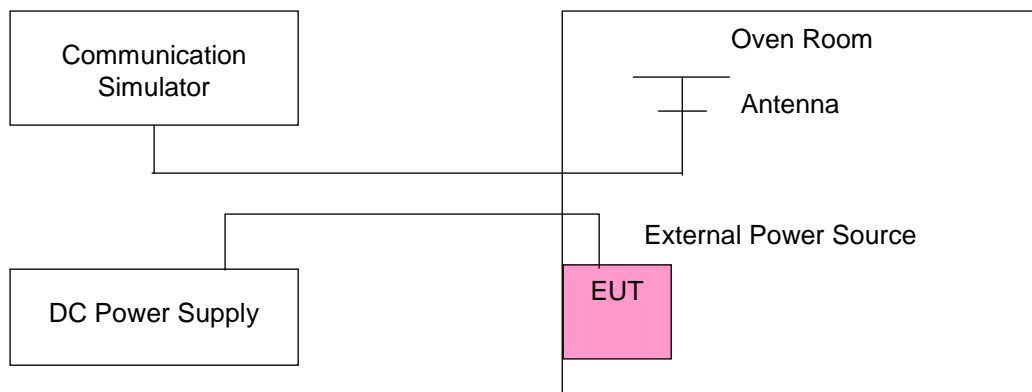
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

### 4.2.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5$  °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

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

### 4.2.3 Test Setup



#### 4.2.4 Test Results

##### Frequency Error vs. Voltage

Voltage (Volts)	CDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	817.900002	0.003	823.100003	0.003	2.5
2.8	817.900004	0.004	823.100003	0.003	2.5
4.38	817.900003	0.004	823.100004	0.004	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 2.8 Vdc to 4.38 Vdc.

##### Frequency Error vs. Temperature

Temp. (°C)	CDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	817.900003	0.004	823.100004	0.005	2.5
-20	817.900004	0.005	823.100002	0.003	2.5
-10	817.900002	0.002	823.100001	0.002	2.5
0	817.900001	0.002	823.100001	0.002	2.5
10	817.900003	0.004	823.100002	0.003	2.5
20	817.899997	-0.004	823.099997	-0.004	2.5
30	817.899999	-0.001	823.099997	-0.003	2.5
40	817.899997	-0.004	823.099996	-0.004	2.5
50	817.899998	-0.002	823.099996	-0.004	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	814.700001	0.001	823.300003	0.003	2.5
2.8	814.700002	0.002	823.300003	0.003	2.5
4.38	814.700003	0.003	823.300002	0.002	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 2.8 Vdc to 4.38 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	814.700003	0.003	823.300002	0.003	2.5
-20	814.700003	0.003	823.300004	0.005	2.5
-10	814.700004	0.005	823.300004	0.005	2.5
0	814.700002	0.002	823.300001	0.002	2.5
10	814.700001	0.002	823.300004	0.005	2.5
20	814.699997	-0.004	823.299997	-0.003	2.5
30	814.699997	-0.003	823.299998	-0.002	2.5
40	814.699999	-0.002	823.299998	-0.002	2.5
50	814.699999	-0.001	823.299998	-0.003	2.5

## Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	815.500001	0.001	822.500003	0.003	2.5
2.8	815.500003	0.004	822.500003	0.004	2.5
4.38	815.500004	0.005	822.500002	0.002	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 2.8 Vdc to 4.38 Vdc.

## Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	815.500003	0.004	822.500001	0.001	2.5
-20	815.500002	0.002	822.500003	0.004	2.5
-10	815.500001	0.001	822.500004	0.005	2.5
0	815.500003	0.004	822.500003	0.003	2.5
10	815.500003	0.004	822.500003	0.004	2.5
20	815.499998	-0.003	822.499997	-0.004	2.5
30	815.499998	-0.003	822.499997	-0.004	2.5
40	815.499997	-0.004	822.499997	-0.004	2.5
50	815.499999	-0.001	822.499999	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	816.500002	0.002	821.500001	0.002	2.5
2.8	816.500003	0.003	821.500004	0.004	2.5
4.38	816.500002	0.003	821.500001	0.001	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 2.8 Vdc to 4.38 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	816.500003	0.003	821.500004	0.005	2.5
-20	816.500004	0.005	821.500004	0.005	2.5
-10	816.500004	0.004	821.500003	0.003	2.5
0	816.500003	0.004	821.500002	0.002	2.5
10	816.500002	0.002	821.500002	0.002	2.5
20	816.499997	-0.004	821.499997	-0.003	2.5
30	816.499999	-0.001	821.499997	-0.004	2.5
40	816.499996	-0.005	821.499998	-0.003	2.5
50	816.499997	-0.003	821.499998	-0.002	2.5



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26		Limit (ppm)
	Channel Bandwidth: 10 MHz		
	Frequency (MHz)	Frequency Error (ppm)	
3.85	819.000003	0.004	2.5
2.8	819.000003	0.004	2.5
4.38	819.000002	0.003	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 2.8 Vdc to 4.38 Vdc.

Frequency Error vs. Temperature

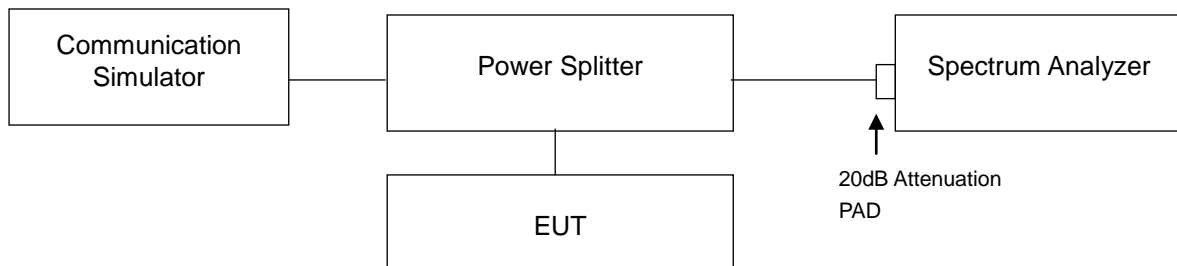
Temp. (°C)	LTE Band 26		Limit (ppm)
	Channel Bandwidth: 10 MHz		
	Frequency (MHz)	Frequency Error (ppm)	
-30	819.000003	0.004	2.5
-20	819.000002	0.002	2.5
-10	819.000003	0.004	2.5
0	819.000003	0.003	2.5
10	819.000003	0.004	2.5
20	818.999998	-0.002	2.5
30	818.999998	-0.002	2.5
40	818.999997	-0.004	2.5
50	818.999999	-0.002	2.5

### 4.3 Occupied Bandwidth Measurement

#### 4.3.1 Test Procedure

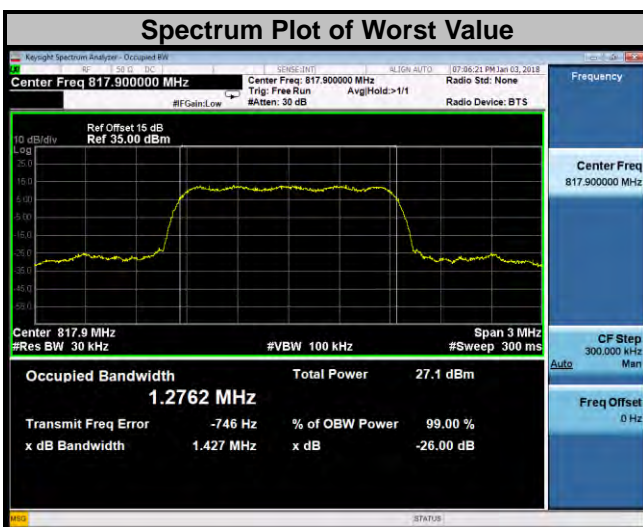
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

#### 4.3.2 Test Setup

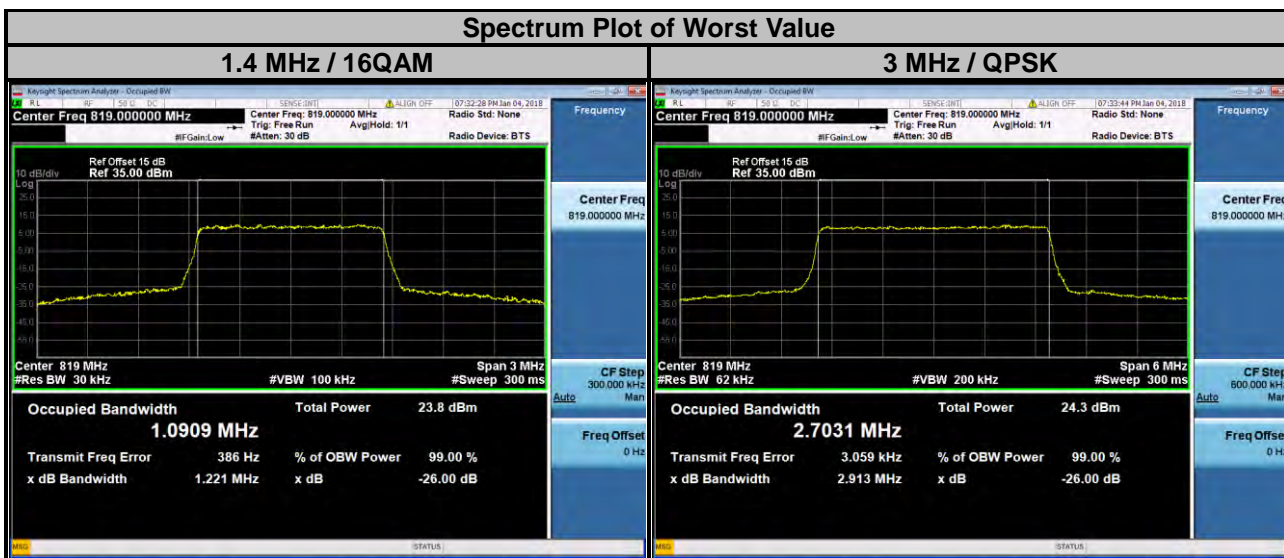


#### 4.3.3 Test Result

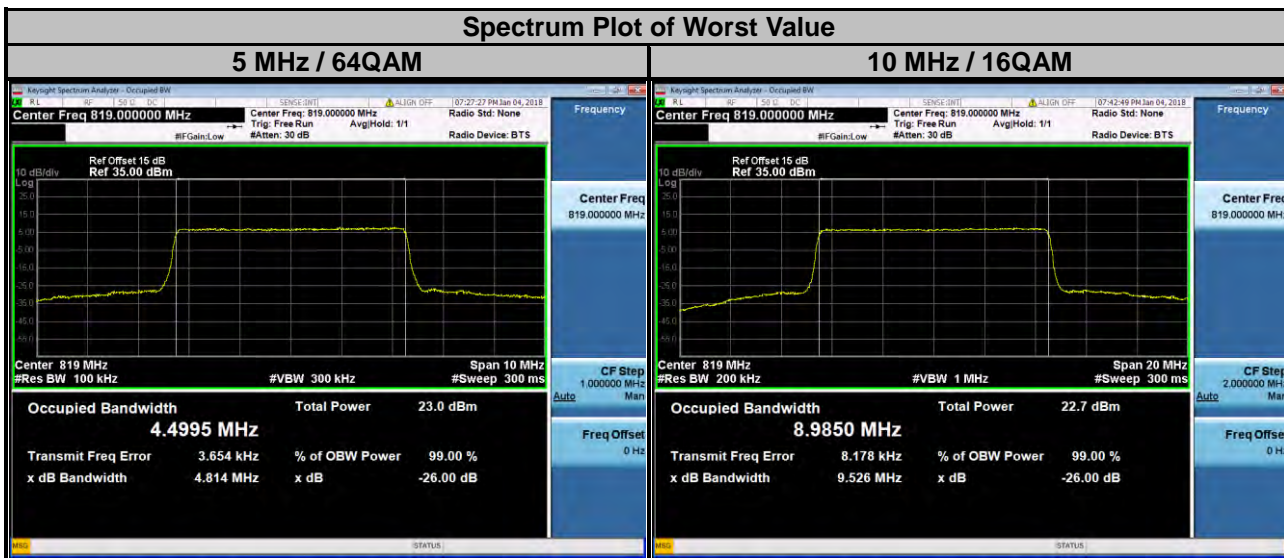
CDMA		
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
476	817.9	1.2762
580	820.5	1.2749
684	823.1	1.2750



LTE Band 26									
Channel Bandwidth: 1.4 MHz					Channel Bandwidth: 3 MHz				
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)			Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
26697	814.7	1.0859	1.0890	1.0891	26705	815.5	2.7022	2.6972	2.6984
26740	819.0	1.0876	1.0909	1.0894	26740	819.0	2.7031	2.6984	2.6983
26783	823.3	1.0881	1.0889	1.0877	26775	822.5	2.7010	2.6985	2.6978



LTE Band 26									
Channel Bandwidth: 5 MHz					Channel Bandwidth: 10 MHz				
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)			Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
26715	816.5	4.4945	4.4960	4.4953	26740	819.0	8.9780	8.9850	8.9753
26740	819.0	4.4955	4.4989	4.4995					
26765	821.5	4.4919	4.4960	4.4929					

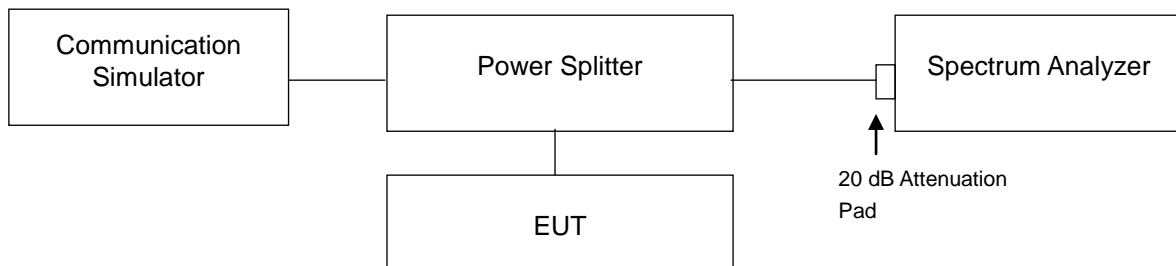


## 4.4 Emission Mask Measurement

### 4.4.1 Limits of Band Edge Measurement

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \text{ Log}_{10}(f/6.1)$  decibels or  $50+10\text{Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

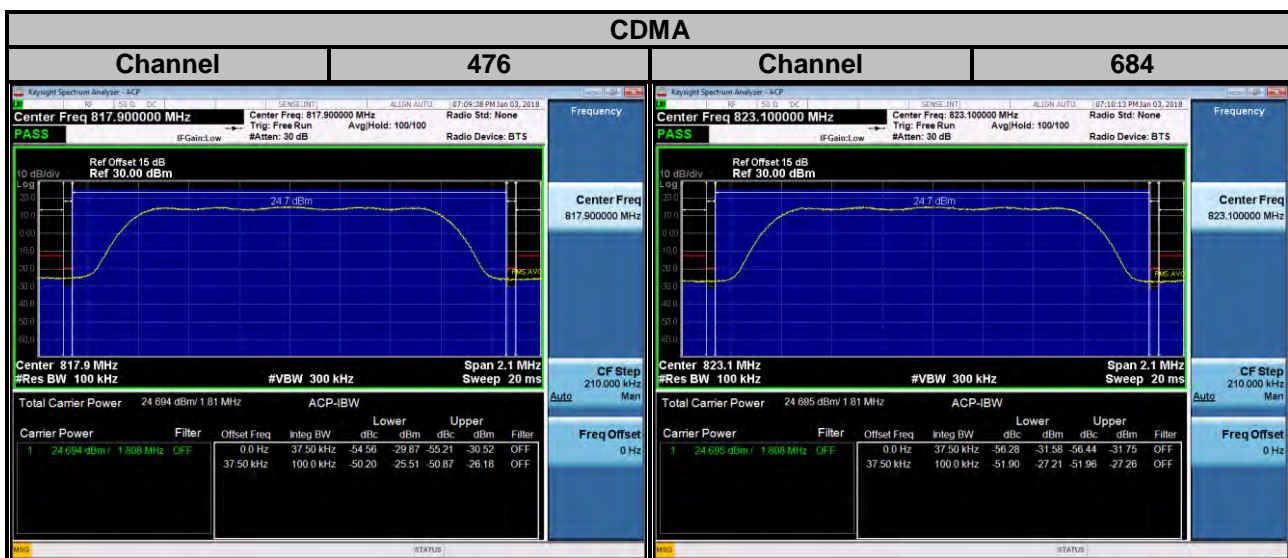
### 4.4.2 Test Setup

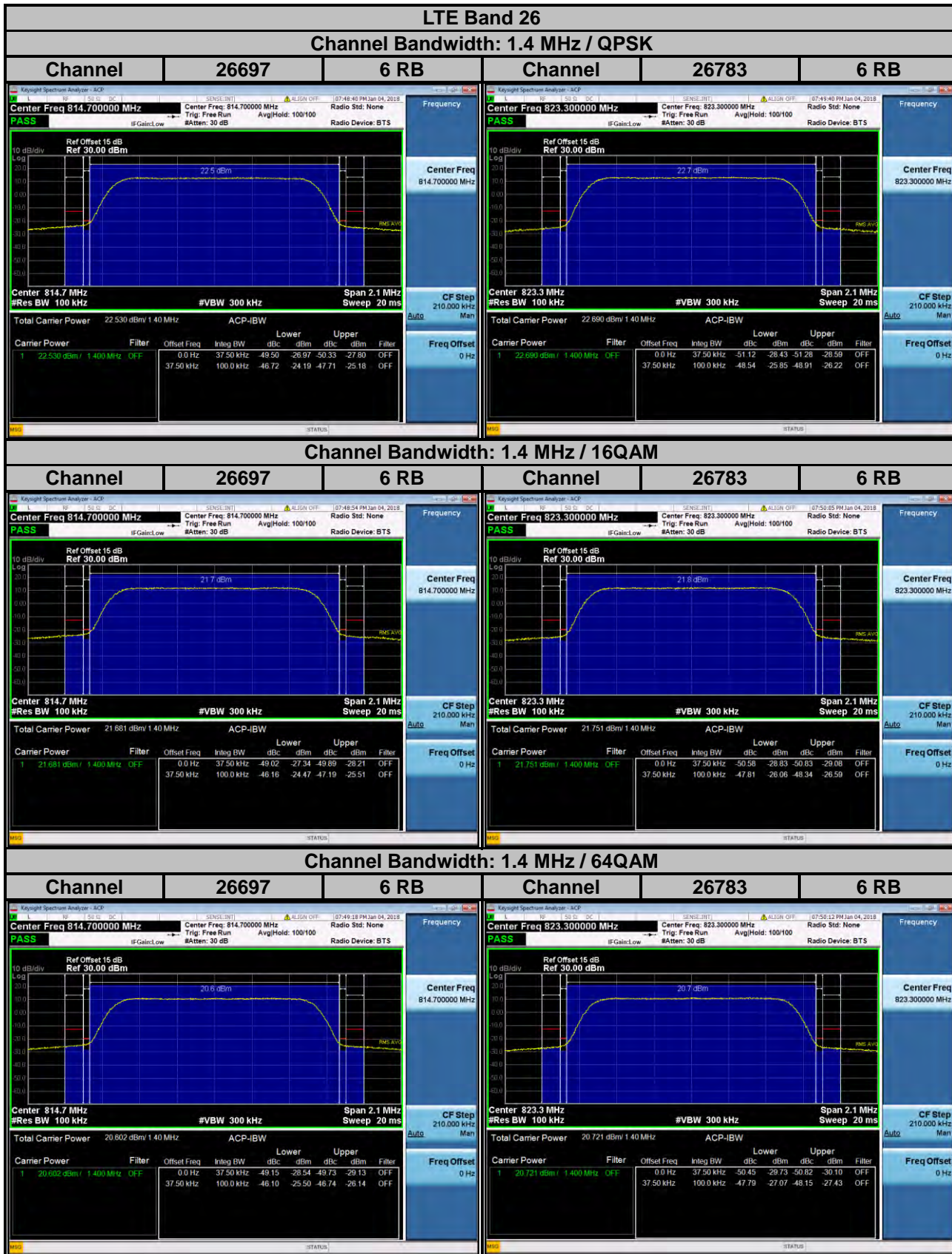


### 4.4.3 Test Procedures

- The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Record the test plot.

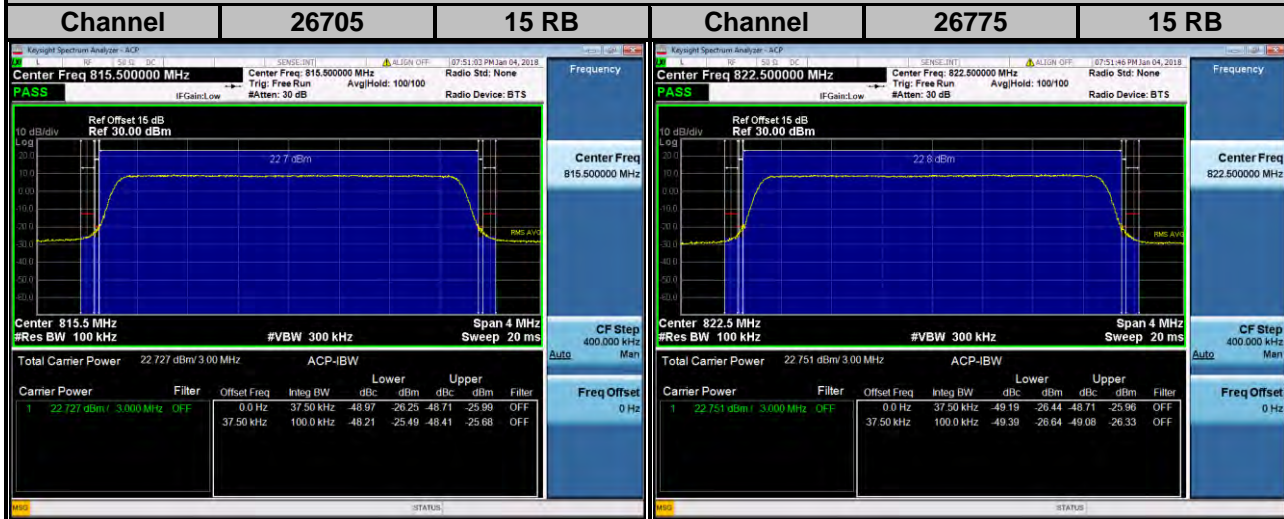
### 4.4.4 Test Results



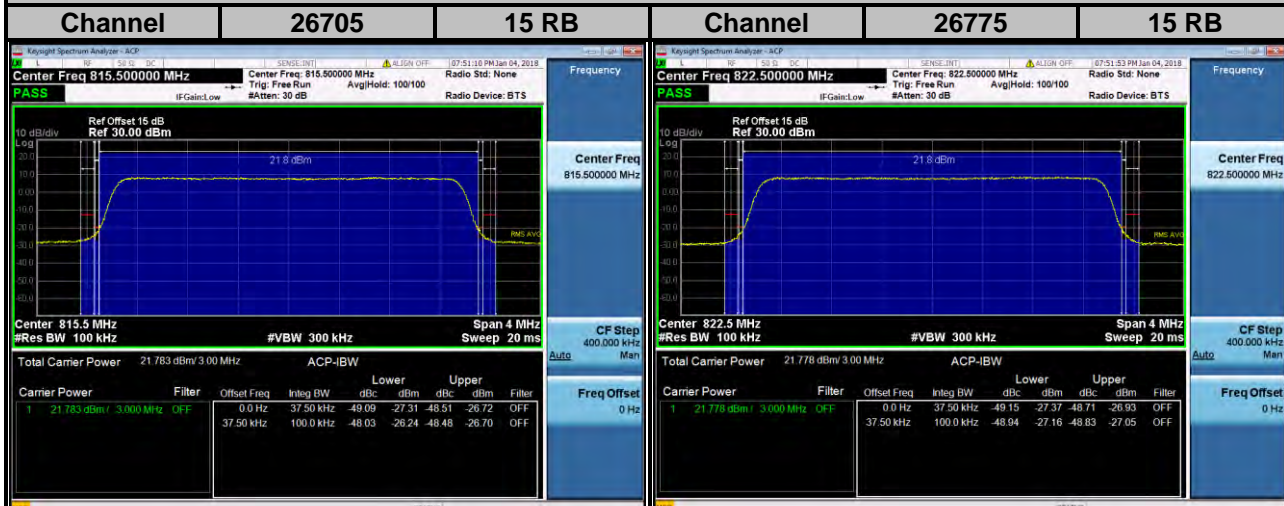


### LTE Band 26

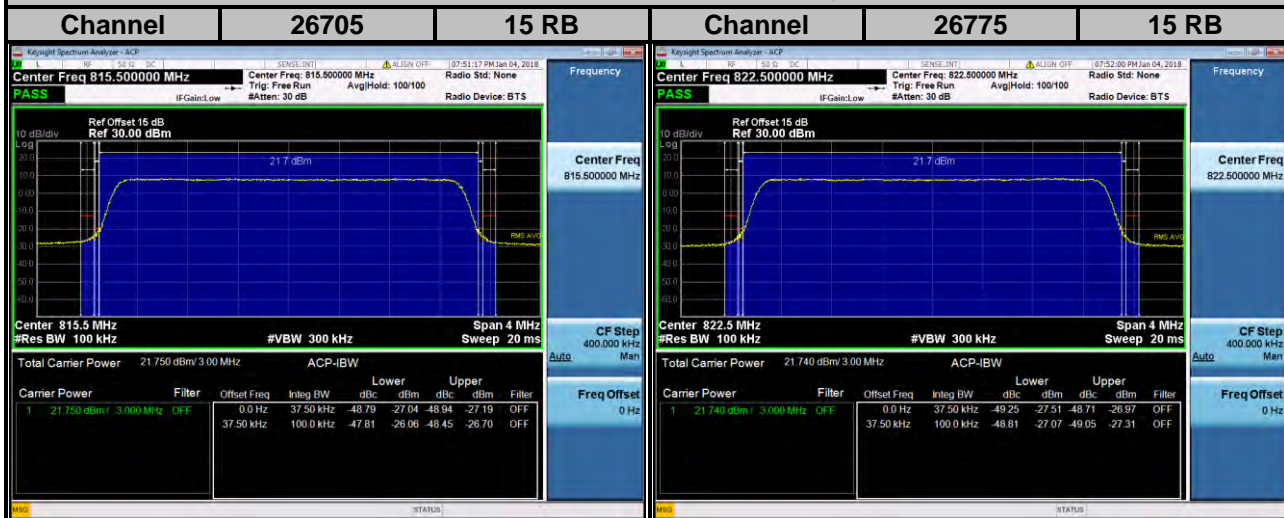
#### Channel Bandwidth: 3 MHz / QPSK

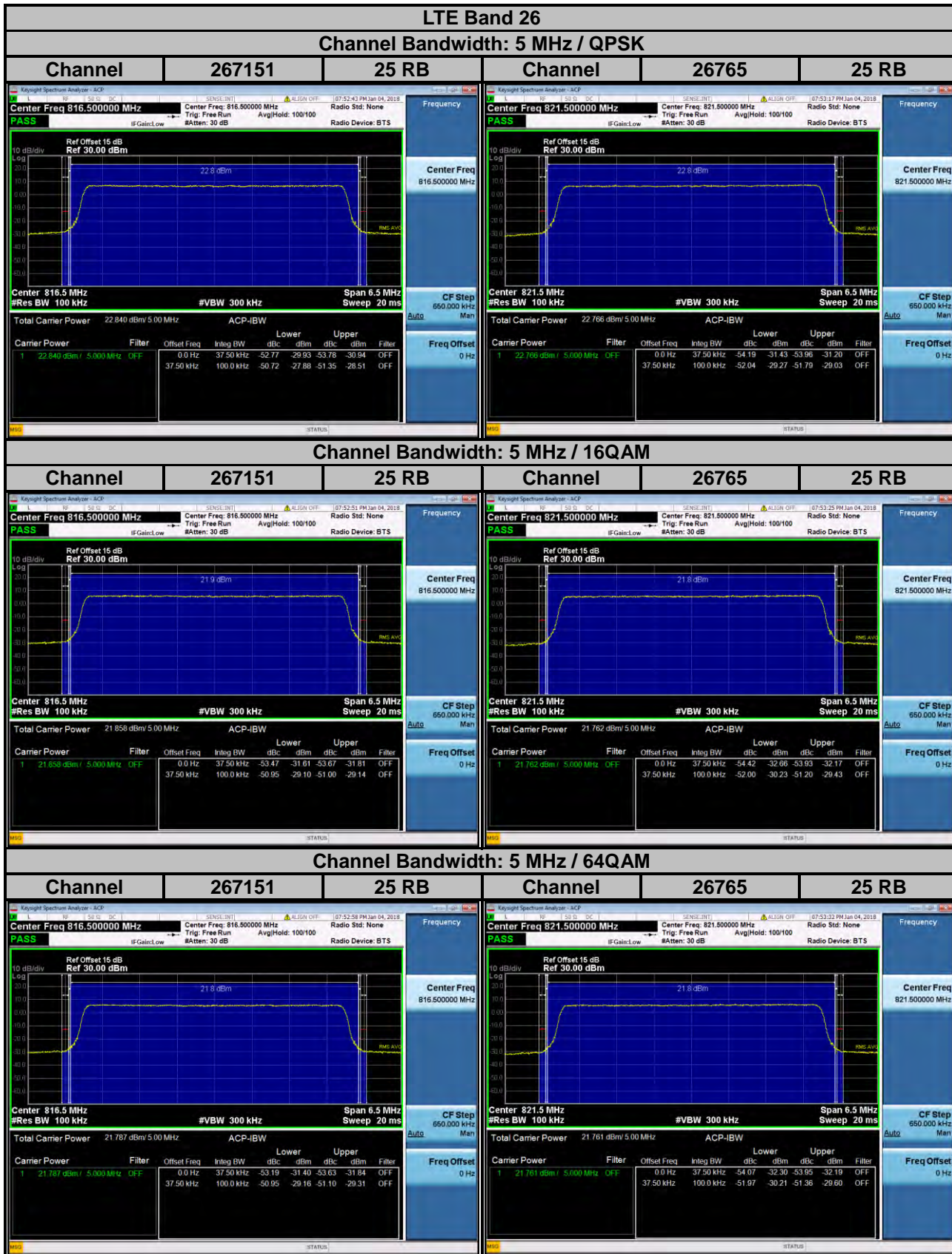


#### Channel Bandwidth: 3 MHz / 16QAM



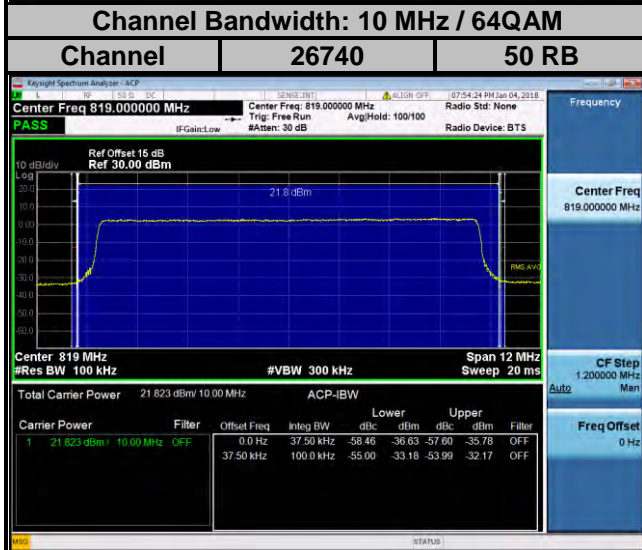
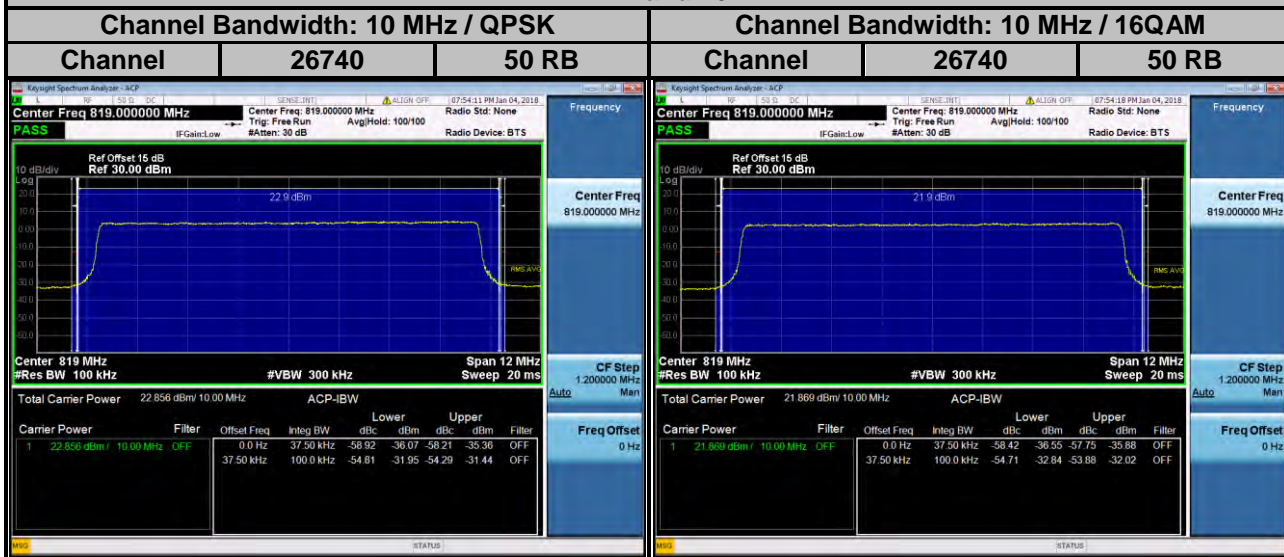
#### Channel Bandwidth: 3 MHz / 64QAM







### LTE Band 26

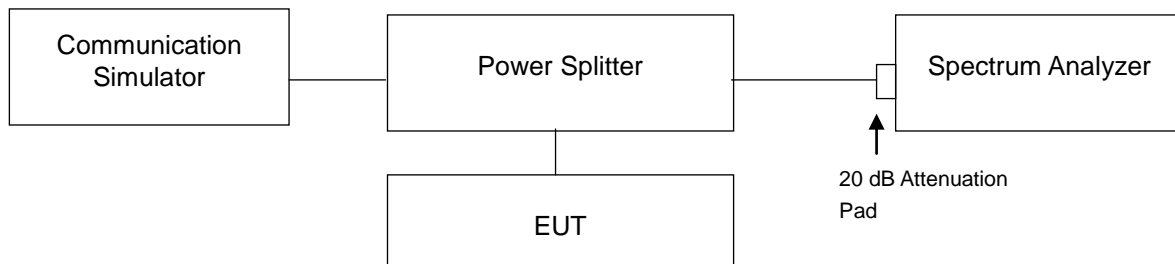


## 4.5 Conducted Spurious Emissions

### 4.5.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -13 dBm.

### 4.5.2 Test Setup



### 4.5.3 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 1 GHz and 1 GHz to 10 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz are used for conducted emission measurement.

### 4.5.4 Test Results

#### CDMA

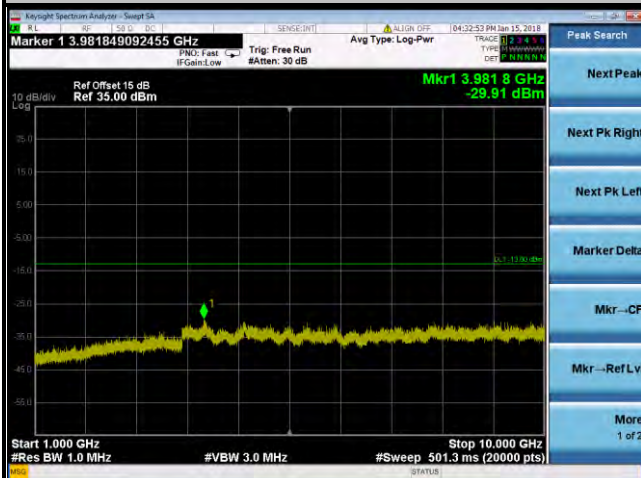
#### 30MHz ~ 1GHz



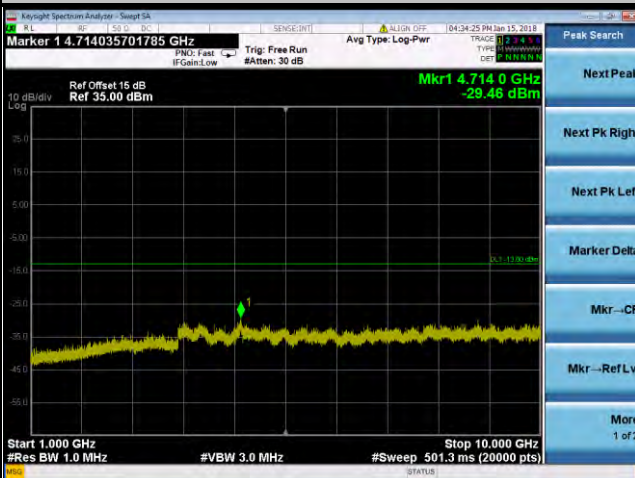
1GHz ~ 10GHz

CDMA

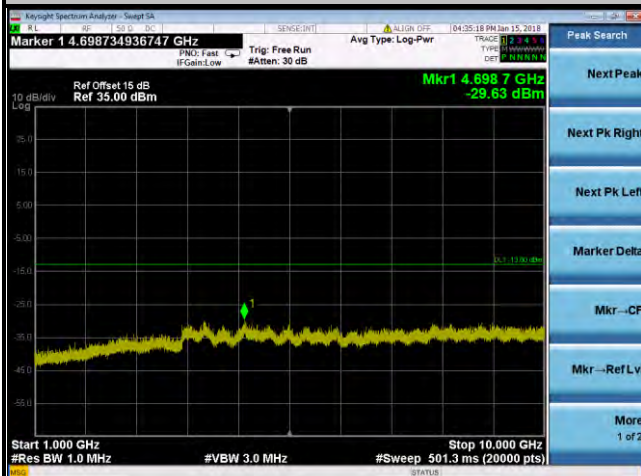
Channel 476



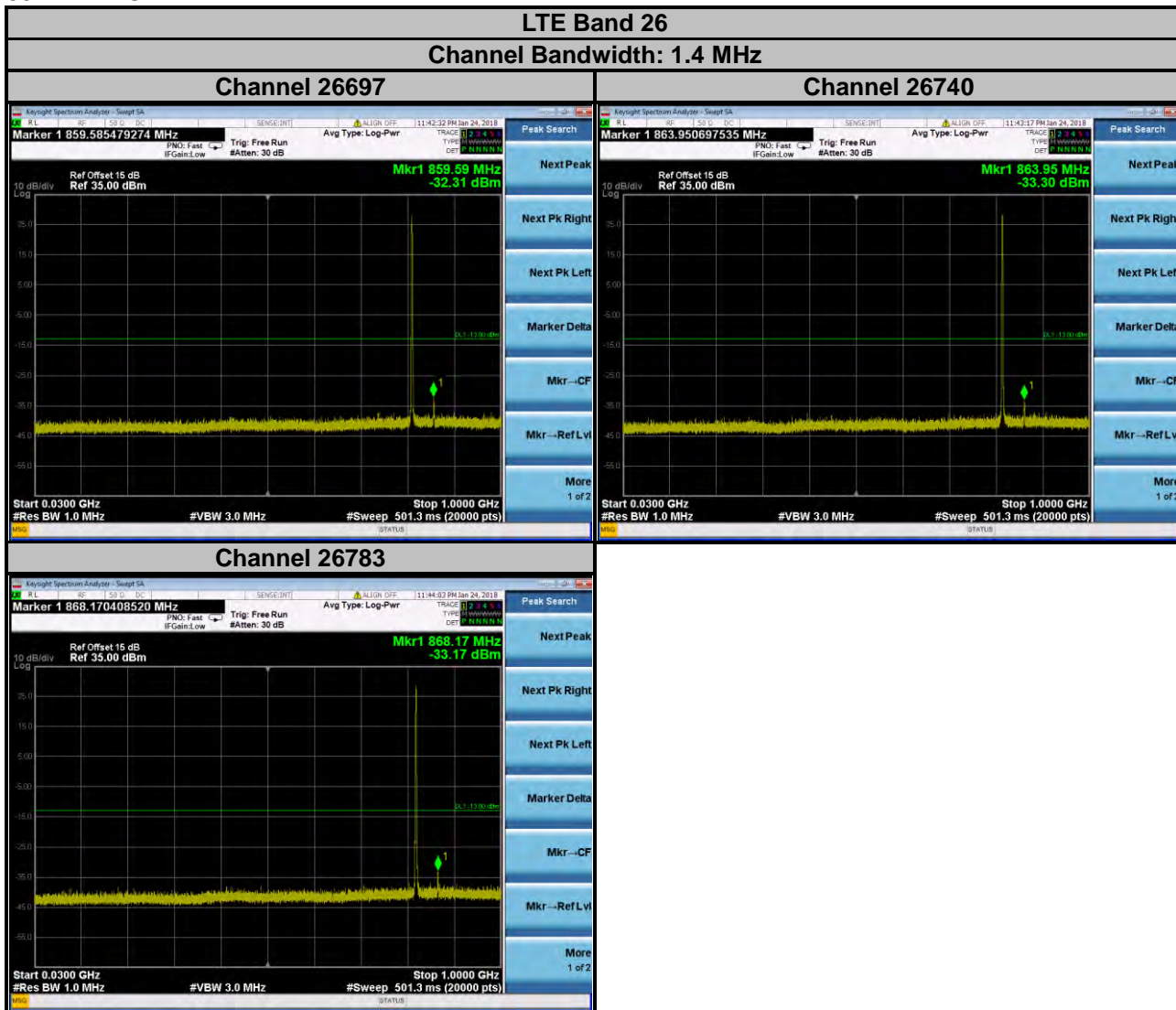
Channel 580



Channel 684

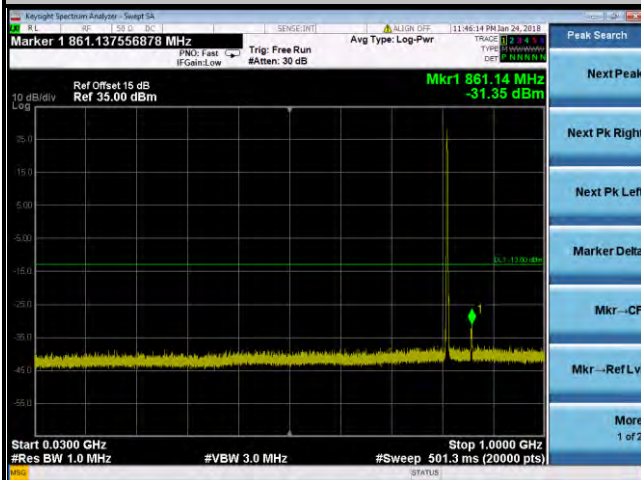


**LTE26**  
30MHz ~ 1GHz

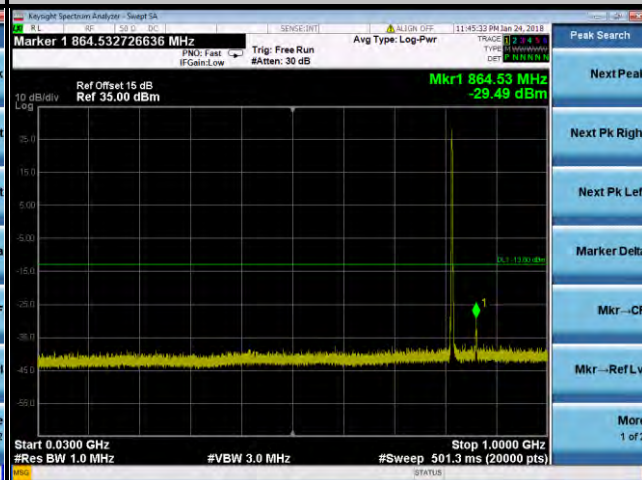


**LTE Band 26**  
**Channel Bandwidth: 3 MHz**

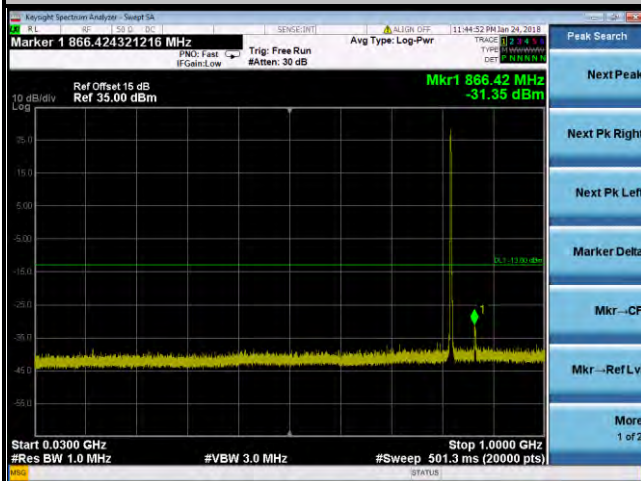
**Channel 26705**



**Channel 26740**



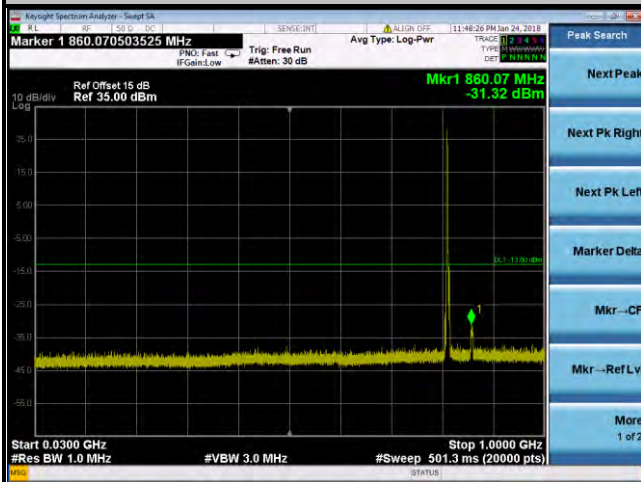
**Channel 26775**



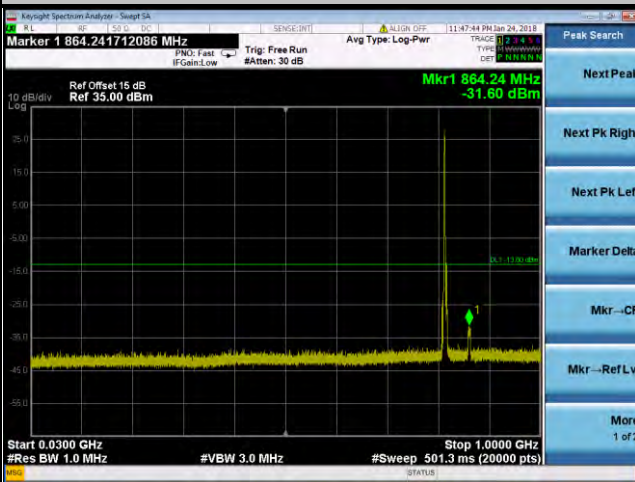
### LTE Band 26

#### Channel Bandwidth: 5 MHz

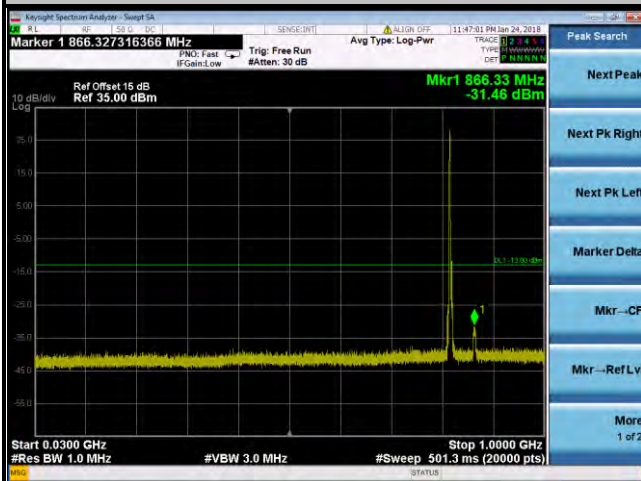
#### Channel 26715



#### Channel 26740



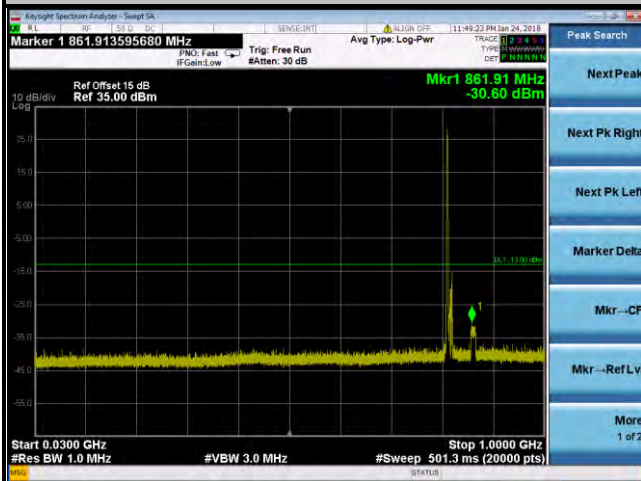
#### Channel 26765



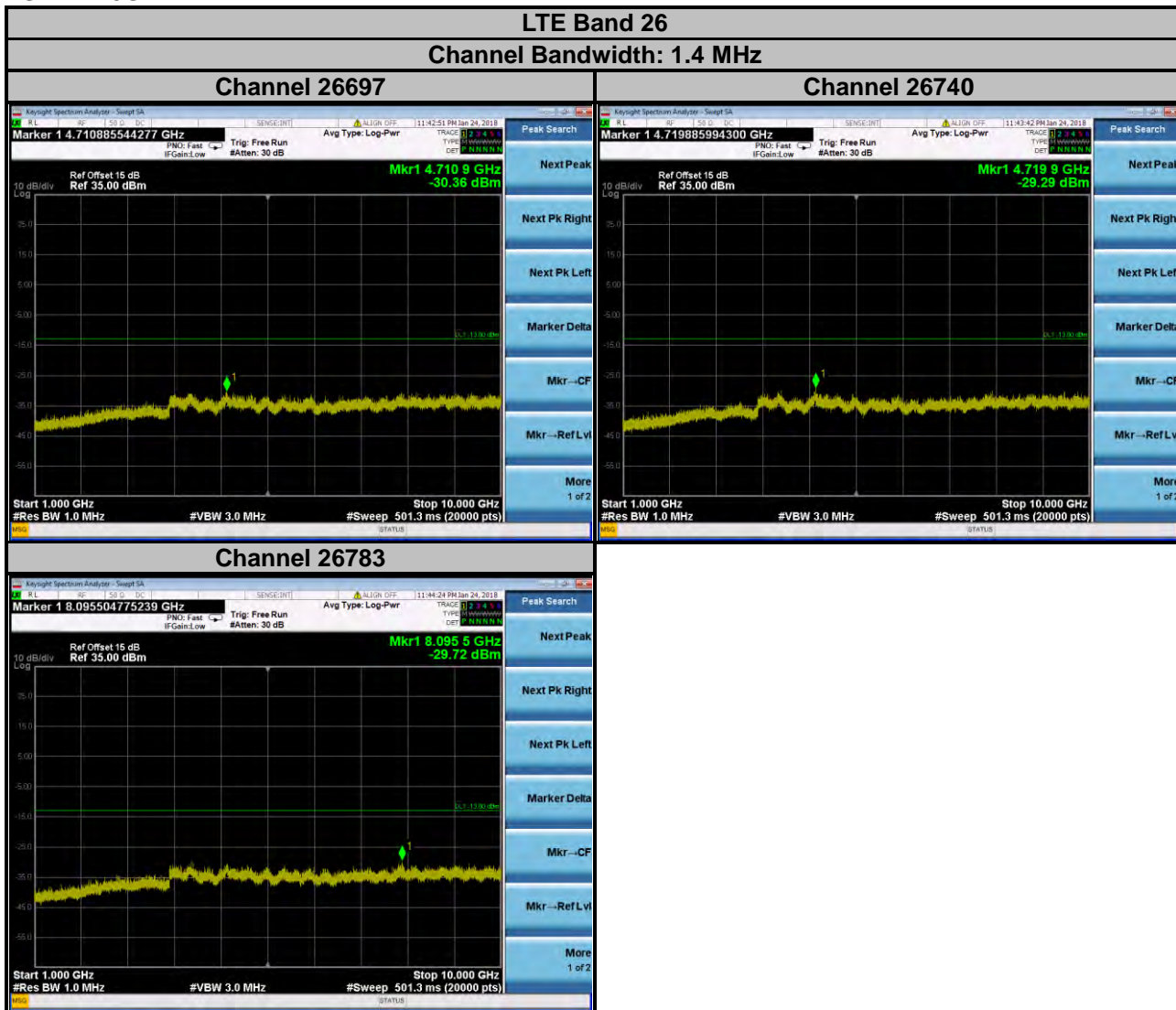
### LTE Band 26

#### Channel Bandwidth: 10 MHz

#### Channel 26740



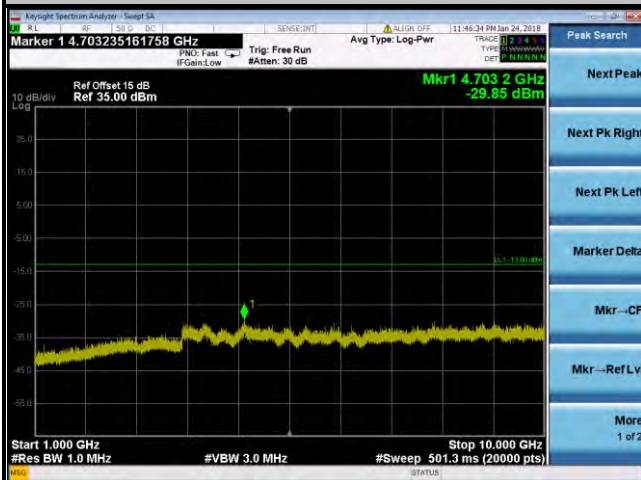
1GHz ~ 10GHz



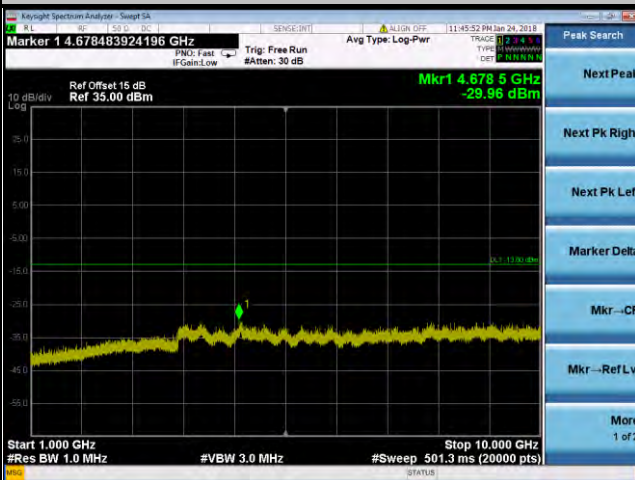


**LTE Band 26**  
**Channel Bandwidth: 3 MHz**

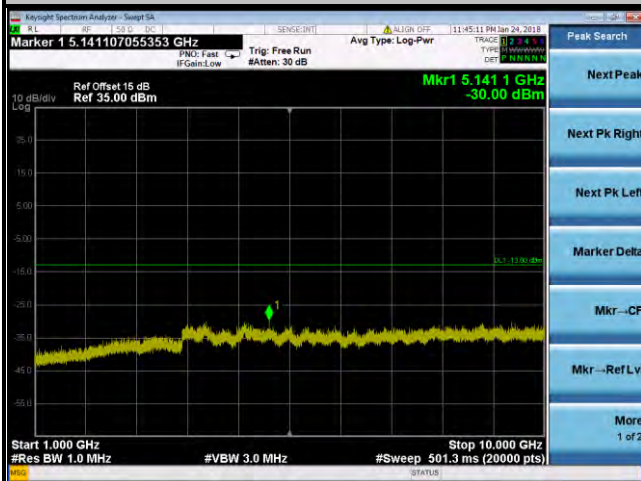
**Channel 26705**



**Channel 26740**



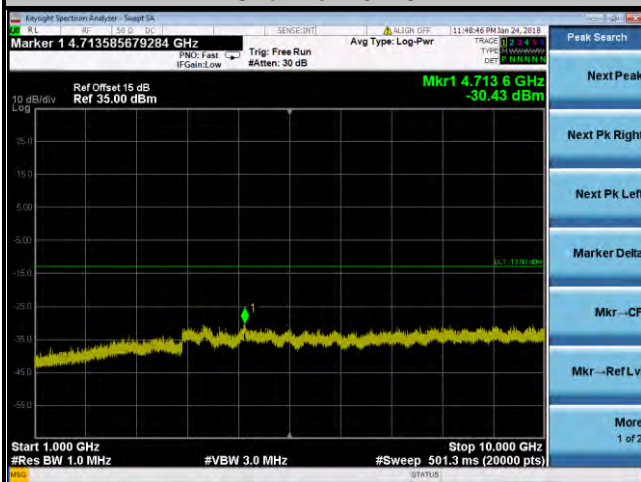
**Channel 26775**



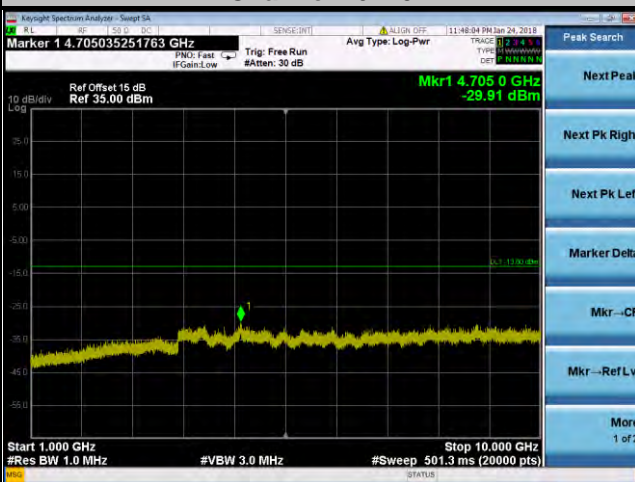
### LTE Band 26

#### Channel Bandwidth: 5 MHz

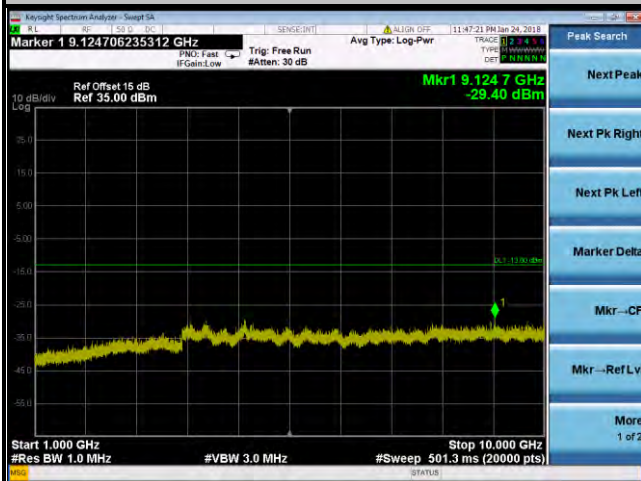
#### Channel 26715



#### Channel 26740



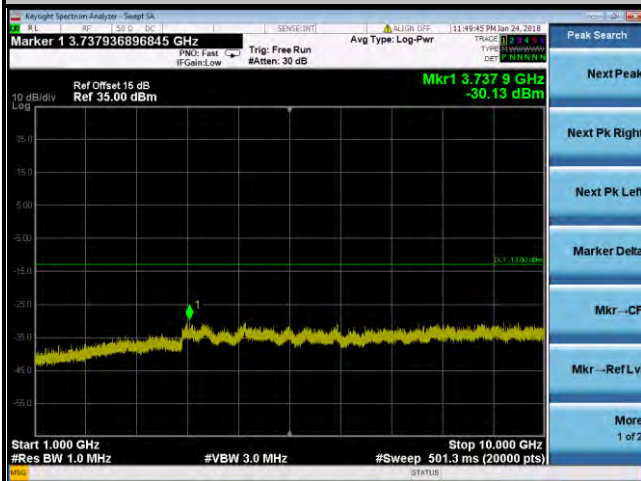
#### Channel 26765



### LTE Band 26

#### Channel Bandwidth: 10 MHz

#### Channel 26740



## 4.6 Radiated Emission Measurement

### 4.6.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -13 dBm.

### 4.6.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

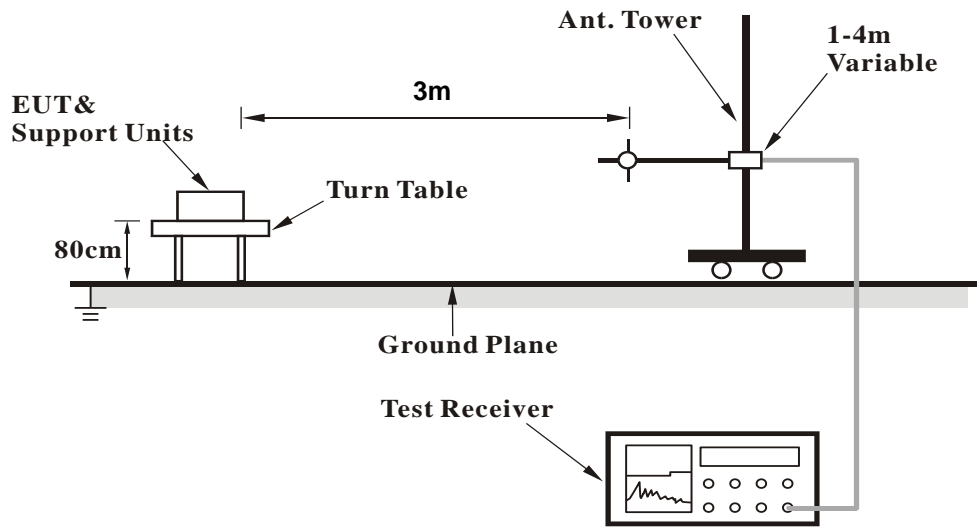
**Note:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

### 4.6.3 Deviation from Test Standard

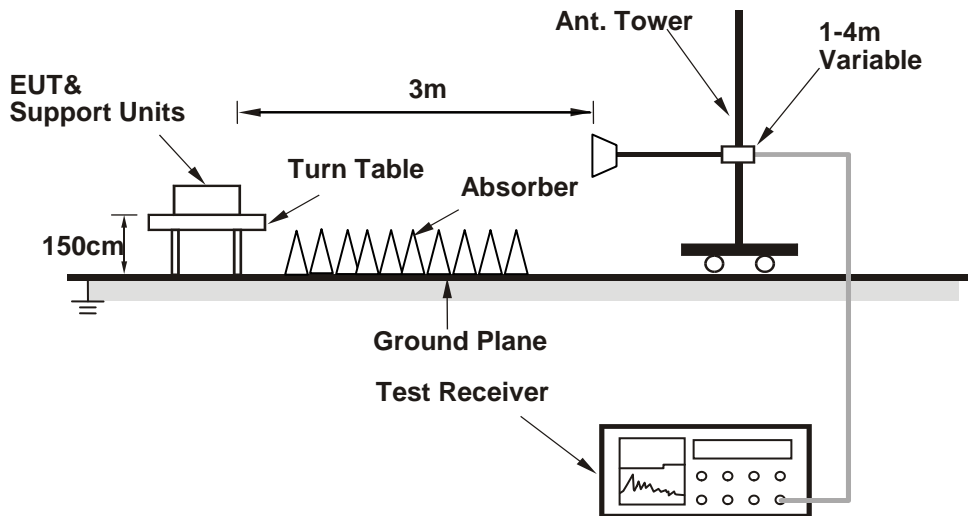
No deviation.

4.6.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.6.5 Test Results

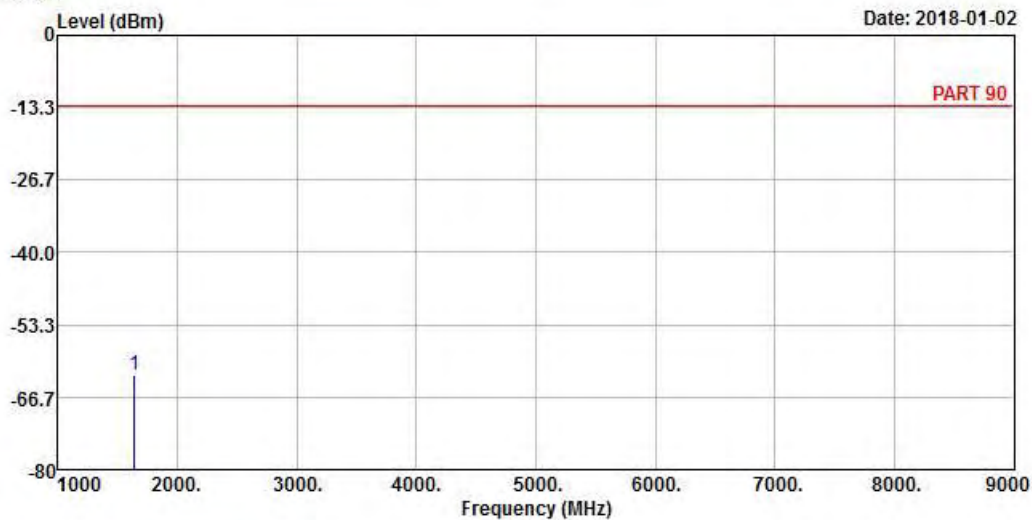
CDMA:  
Low Channel



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A D T

Data: 3



Site : 966 Chamber 5  
Condition: PART 90 HORIZONTAL  
Remark : CDMA BC10 Link\_L-CH  
Tested by: Getaz Yang

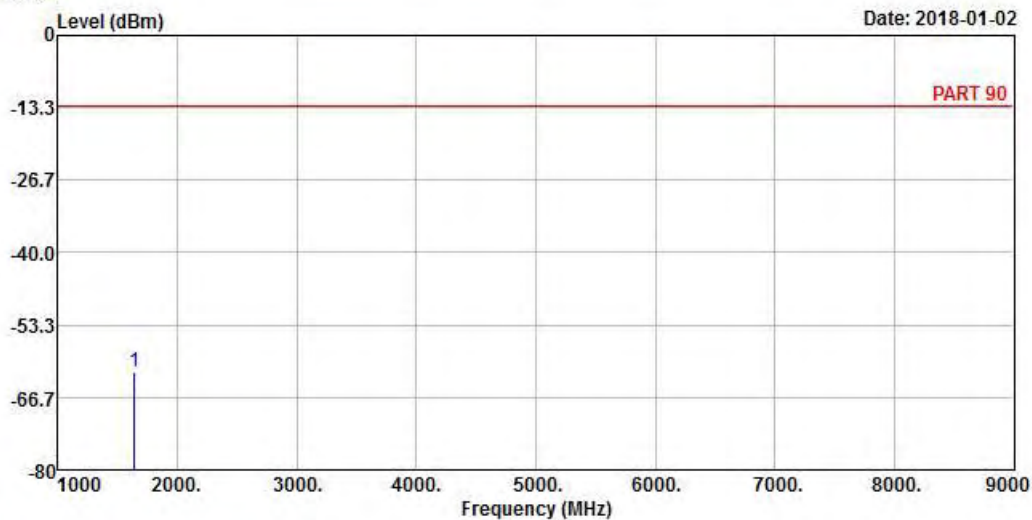
Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1635.80	-62.68	-47.89	-13.00	-49.68	-14.79	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remark : CDMA BC10 Link\_L-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1635.80	-62.06	-47.27	-13.00	-49.06	-14.79	Peak

Middle Channel

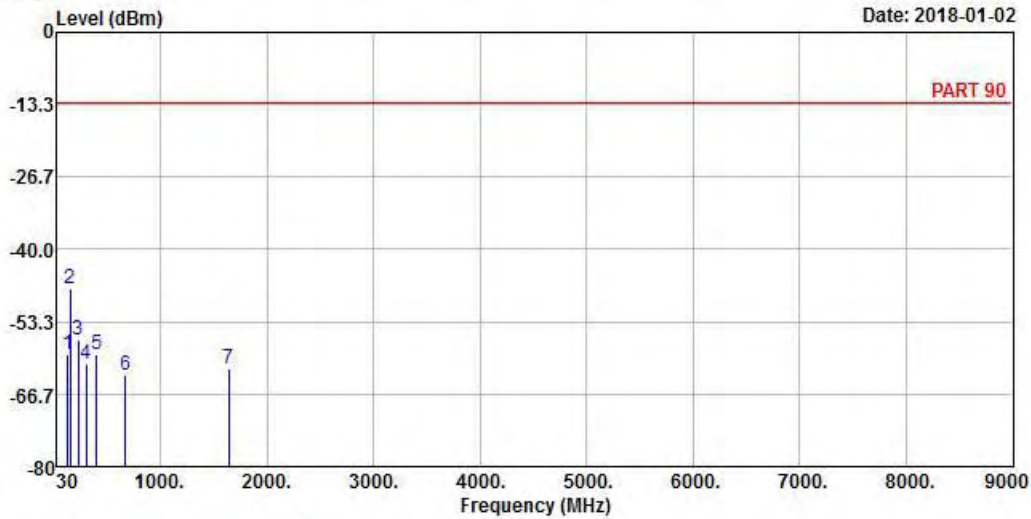


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A D T

Data: 5

Date: 2018-01-02



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remark : CDMA BC10 Link\_M-CH  
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	132.82	-59.21	-50.53	393.01-452.22	-8.68	Peak	
2	156.10	-47.10	-41.16	393.01-440.11	-5.94	Peak	
3	228.85	-56.81	-49.96	393.01-449.82	-6.85	Peak	
4	300.63	-60.98	-53.98	393.01-453.99	-7.00	Peak	
5	400.54	-59.46	-53.52	393.01-452.47	-5.94	Peak	
6	669.23	-63.25	-62.67	393.01-456.26	-0.58	Peak	
7 pp	1641.00	-61.97	-47.24	-13.00	-48.97	-14.73	Peak

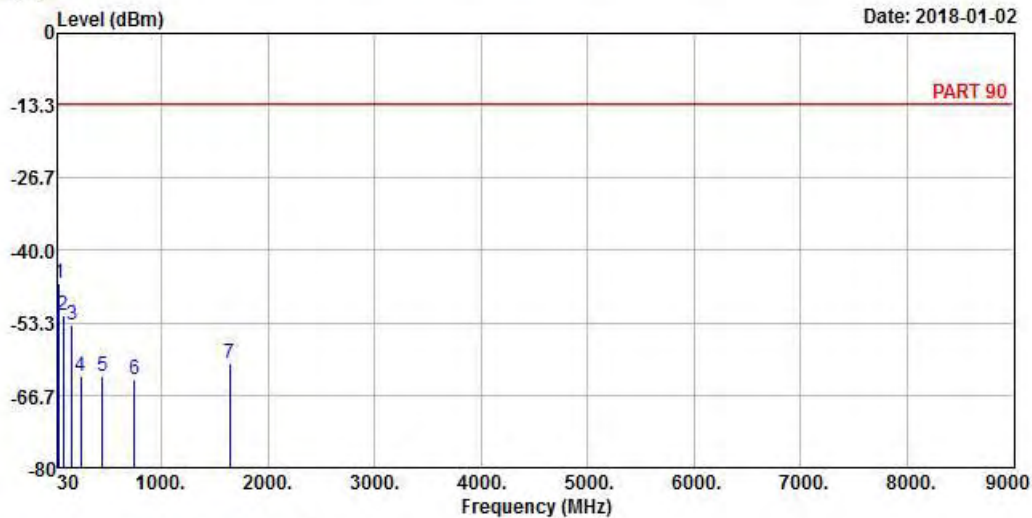


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A D T

Data: 6

Date: 2018-01-02



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remark : CDMA BC10 Link\_M-CH  
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-46.03	-45.62	393.01-439.04	-0.41		Peak
2	79.47	-51.97	-41.31	393.01-444.98	-10.66		Peak
3	159.98	-53.73	-48.89	393.01-446.74	-4.84		Peak
4	246.31	-63.10	-56.95	393.01-456.11	-6.15		Peak
5	447.10	-63.21	-57.64	393.01-456.22	-5.57		Peak
6	743.92	-63.85	-64.61	393.01-456.86	0.76		Peak
7 pp	1641.00	-60.91	-46.18	-13.00	-47.91	-14.73	Peak



High Channel

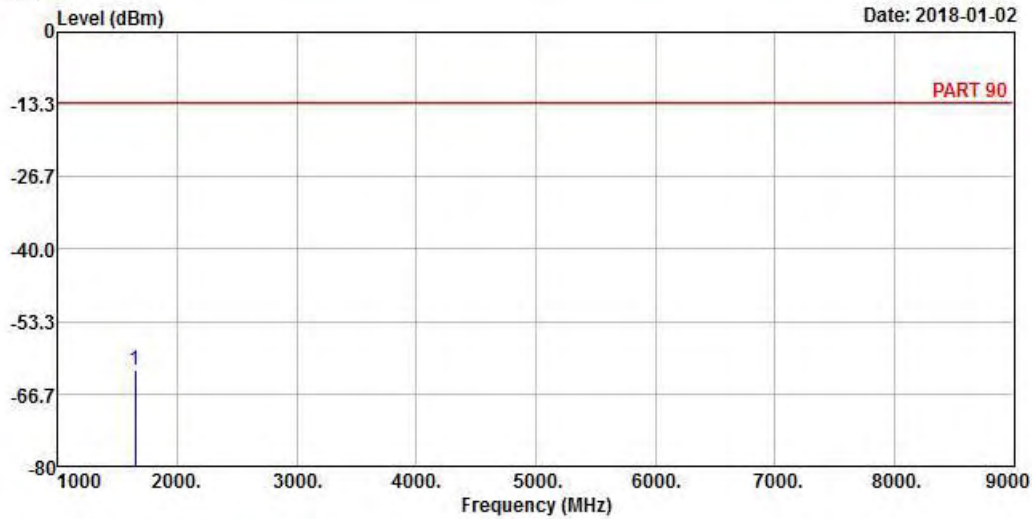


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A D T

Data: 3

Date: 2018-01-02



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remark : CDMA BC10 Link\_H-CH  
 Tested by: Getaz Yang

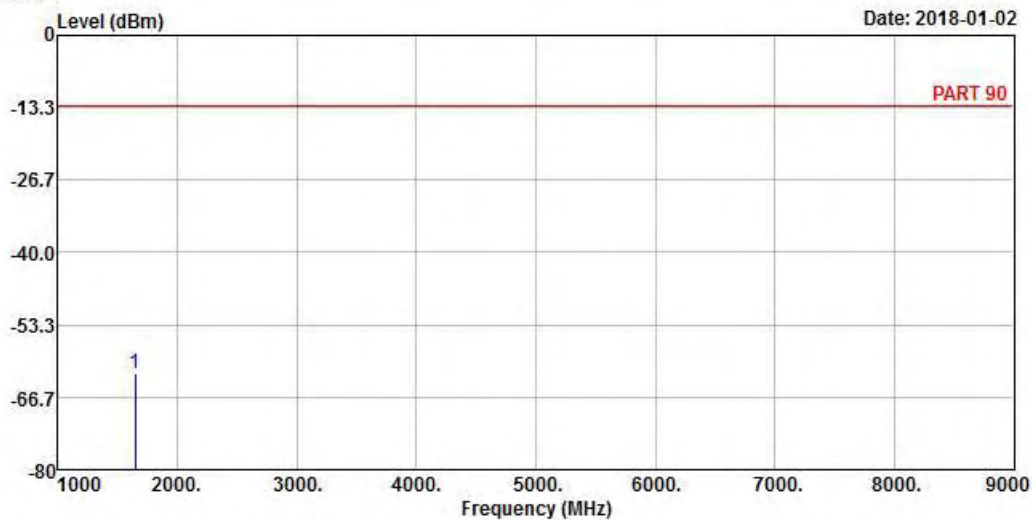
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1646.20	-62.41	-47.68	-13.00	-49.41	-14.73	Peak



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A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remark : CDMA BC10 Link\_H-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1646.20	-62.31	-47.58	-13.00	-49.31	-14.73	Peak

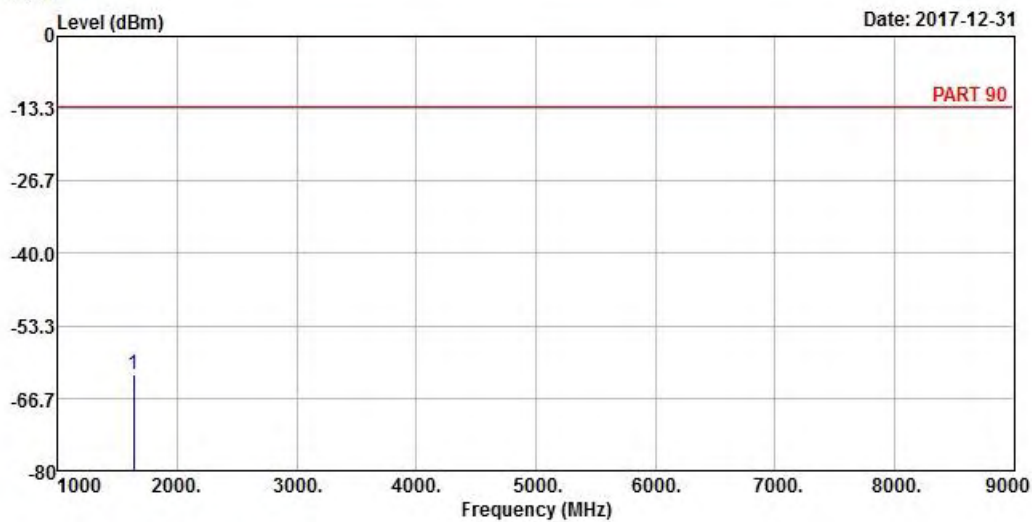
LTE Band 26  
 Channel Bandwidth: 10 MHz / QPSK  
 Low Channel



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A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remak : LTE Band 26 QPSK\_5M\_L-CH Link  
 Tested by: Jisyong Wang

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

1 pp 1633.00 -62.20 -47.41 -13.00 -49.20 -14.79 Peak

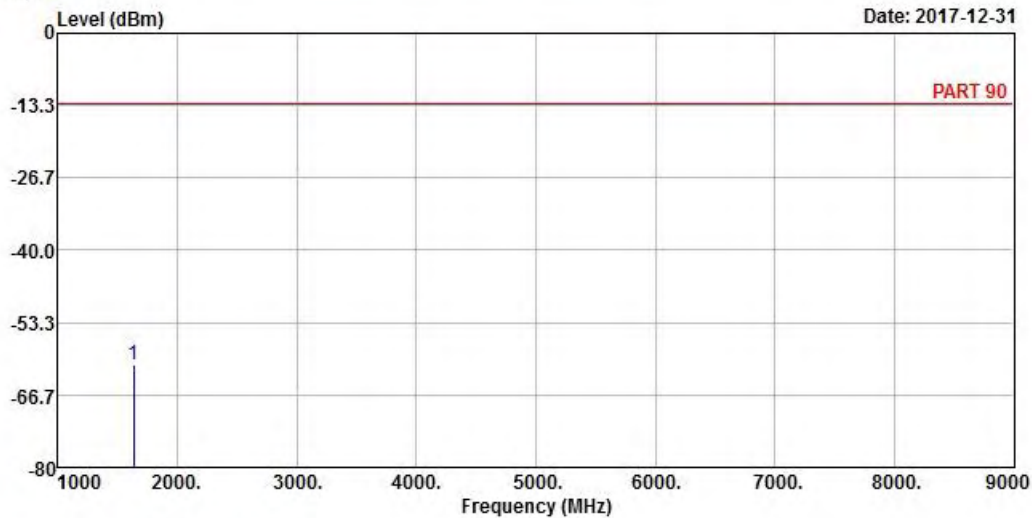


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A D T

Data: 4

Date: 2017-12-31



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remark : LTE Band 26 QPSK\_5M\_L-CH Link  
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1633.00	-61.24	-46.45	-13.00	-48.24	-14.79	Peak

Middle Channel

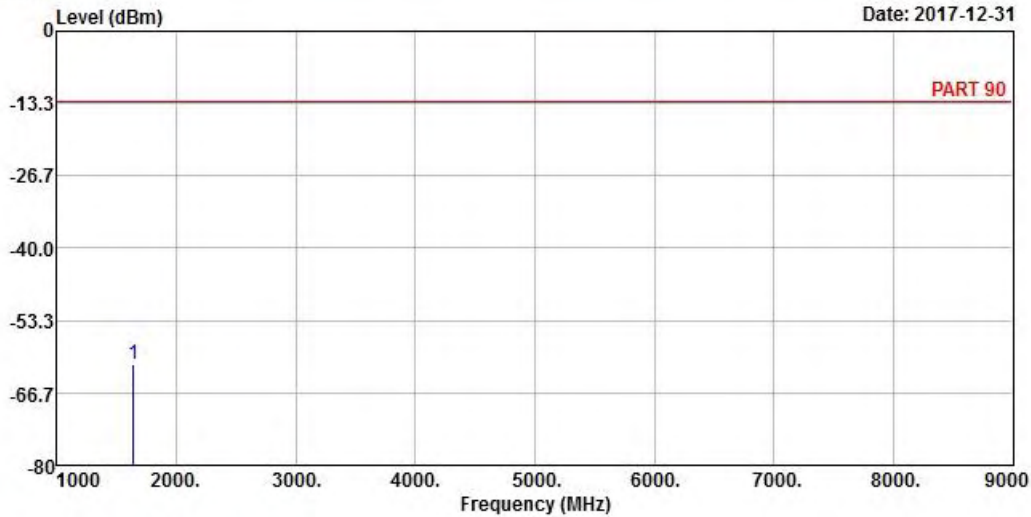


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2017-12-31



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remak : LTE Band 26 QPSK\_5M\_M-CH Link  
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1638.00	-61.50	-46.71	-13.00	-48.50	-14.79	Peak

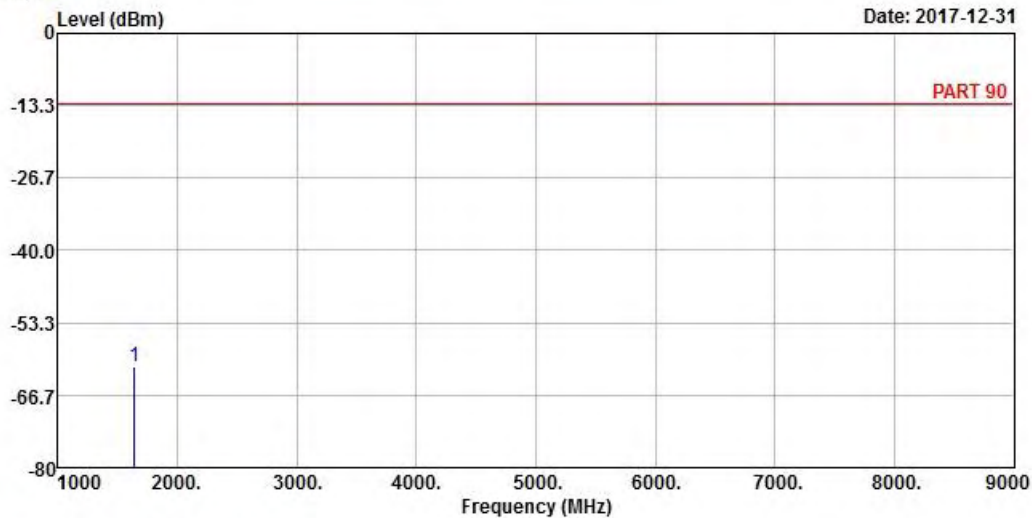


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2017-12-31



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remak : LTE Band 26 QPSK\_5M\_M-CH Link  
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1638.00	-61.43	-46.64	-13.00	-48.43	-14.79	Peak

## High Channel

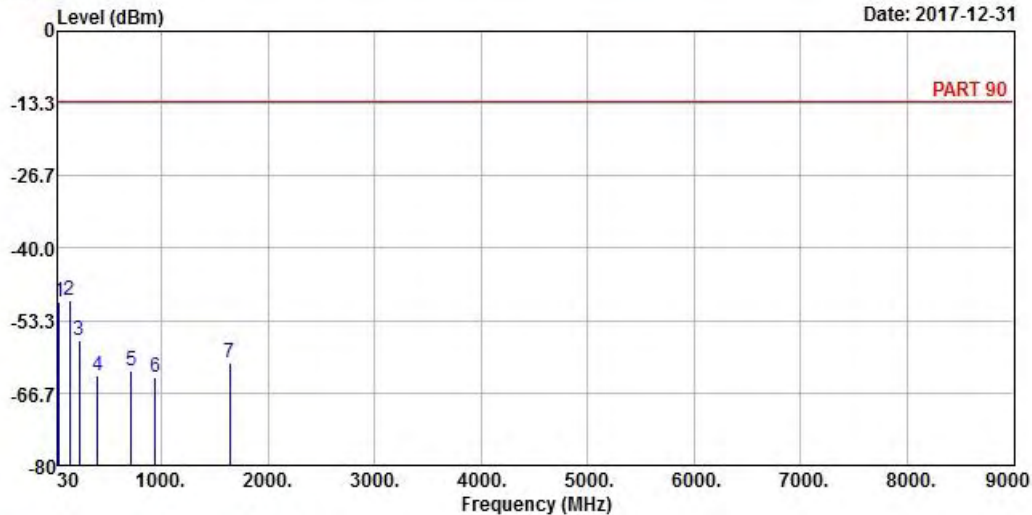


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2017-12-31



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remak : LTE Band 26 QPSK\_5M\_H-CH Link  
 Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-49.99	-49.05	393.01-443.00	-0.94	Peak	
2	138.64	-49.66	-41.00	393.01-442.67	-8.66	Peak	
3	225.94	-56.94	-49.97	393.01-449.95	-6.97	Peak	
4	400.54	-63.39	-57.45	393.01-456.40	-5.94	Peak	
5	716.76	-62.48	-62.71	393.01-455.49	0.23	Peak	
6	938.89	-63.67	-65.20	393.01-456.68	1.53	Peak	
7 pp	1643.00	-61.09	-46.36	-13.00 -48.09	-14.73	Peak	

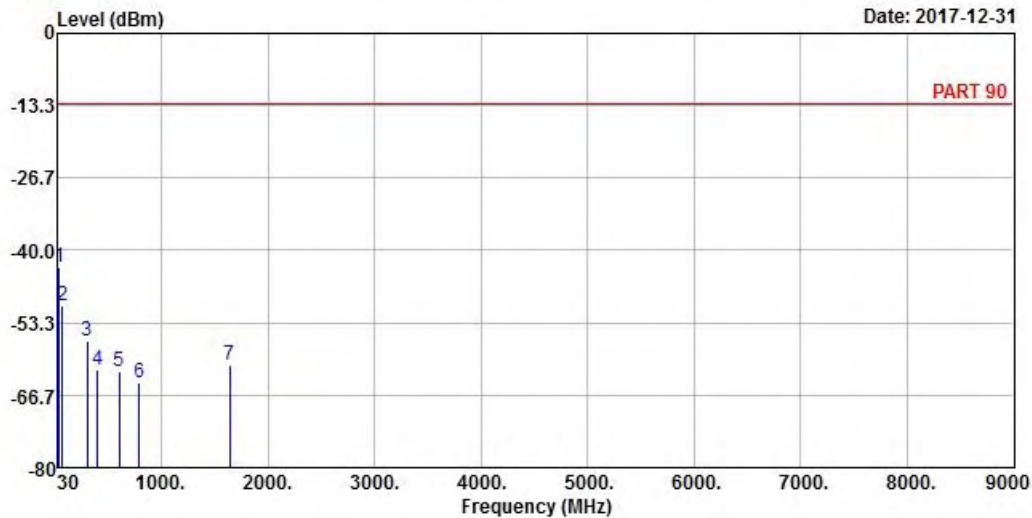


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A D T

Data: 6

Date: 2017-12-31



Site : 966 Chamber 5

Condition: PART 90 VERTICAL

Remak : LTE Band 26 QPSK\_5M\_H-CH Link

Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-43.07	-42.13	393.01-436.08	-0.94		Peak
2	70.74	-50.29	-41.67	393.01-443.30	-8.62		Peak
3	300.63	-56.68	-49.68	393.01-449.69	-7.00		Peak
4	400.54	-61.94	-56.00	393.01-454.95	-5.94		Peak
5	600.36	-62.30	-61.55	393.01-455.31	-0.75		Peak
6	789.51	-64.50	-65.27	393.01-457.51	0.77		Peak
7 pp	1643.00	-61.20	-46.47	-13.00 -48.20	-14.73		Peak



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – 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 FCC recognized accredited test firms and accredited 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

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**Hwa Ya EMC/RF/Safety**

Tel: 886-3-3183232

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**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.

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