

## FCC Test Report

### (PART 24)

**Report No.:** RFBGSN-WTW-P20070580-1

**FCC ID:** 2AX8C-3544

**Test Model:** FL44TE

**Received Date:** Jul. 29, 2020

**Test Date:** Aug. 05, 2020 ~ Nov. 25, 2020

**Issued Date:** Nov. 30, 2020

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



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### Release Control Record

Issue No.	Description	Date Issued
RFBGSN-WTW-P20070580-1	Original Release	Nov. 30, 2020



## 2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement.
24.232(d)	Peak to Average Ratio	Pass	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
24.238	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 -2.87 dB at 35.82 MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 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) ( $\pm$ )
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	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	Mar. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
			Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 08, 2019	Nov. 07, 2020
			Nov. 06, 2020	Nov. 05, 2021
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
			Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	9120D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
			Nov. 22, 2020	Nov. 21, 2021
MXG Vector signal generator Agilent	N5182B	MY53050162	Jan. 14, 2020	Jan. 14, 2021
Preamplifier EMCI	EMC001340	980201	Oct. 14, 2019	Oct. 13, 2020
			Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 08, 2019	Oct. 07, 2020
			Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 330H	980112	Oct. 08, 2019	Oct. 07, 2020
			Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	180409	Jan. 18, 2020	Jan. 17, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 08, 2019	Oct. 07, 2020
			Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 08, 2019	Oct. 07, 2020
			Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
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
Radio Communication Analyzer Anritsu	MT8821C	6201462755	Feb. 13, 2020	Feb. 12, 2021
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 19, 2019	Aug. 18, 2021
Temperature & Humidity Chamber GIANT FORCE	GTH-120-40-CP-AR	MAA1306-019	Sep. 09, 2020	Sep. 08, 2021
DC power supply Keysight	U8002A	MY56330015	NA	NA
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2020	Jun. 22, 2021

- 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 General Information

#### 3.1 General Description of EUT

<b>Product</b>	Fleet Edge	
<b>Brand</b>	N/A	
<b>Test Model</b>	FL44TE	
<b>Status of EUT</b>	Engineering Sample	
<b>Power Supply Rating</b>	12 Vdc (Power Supply)	
<b>Modulation Type</b>	WCDMA	QPSK
	LTE	QPSK, 16QAM
<b>Frequency Range</b>	WCDMA II	1852.4 ~ 1907.6 MHz
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1914.3 MHz
	LTE Band 25 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1913.5 MHz
	LTE Band 25 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1912.5 MHz
	LTE Band 25 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1910.0 MHz
	LTE Band 25 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1907.5 MHz
	LTE Band 25 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1905.0 MHz
	<b>Max. EIRP Power</b>	WCDMA II
LTE Band 2 (Channel Bandwidth: 1.4 MHz)		204.17 mW
LTE Band 2 (Channel Bandwidth: 3 MHz)		207.97 mW
LTE Band 2 (Channel Bandwidth: 5 MHz)		210.86 mW
LTE Band 2 (Channel Bandwidth: 10 MHz)		215.28 mW
LTE Band 2 (Channel Bandwidth: 15 MHz)		218.78 mW
LTE Band 2 (Channel Bandwidth: 20 MHz)		221.82 mW
LTE Band 25 (Channel Bandwidth: 1.4 MHz)		174.18 mW
LTE Band 25 (Channel Bandwidth: 3 MHz)		177.42 mW
LTE Band 25 (Channel Bandwidth: 5 MHz)		180.72 mW
LTE Band 25 (Channel Bandwidth: 10 MHz)		183.65 mW
LTE Band 25 (Channel Bandwidth: 15 MHz)		189.23 mW
LTE Band 25 (Channel Bandwidth: 20 MHz)		193.20 mW



<b>Emission Designator</b>	WCDMA II	4M17F9W
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1M09D7W
	LTE Band 2 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 2 (Channel Bandwidth: 5 MHz)	4M49D7W
	LTE Band 2 (Channel Bandwidth: 10 MHz)	8M97D7W
	LTE Band 2 (Channel Bandwidth: 15 MHz)	13M5G7D
	LTE Band 2 (Channel Bandwidth: 20 MHz)	18M0D7W
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1M09D7W
	LTE Band 25 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 25 (Channel Bandwidth: 5 MHz)	4M49D7W
	LTE Band 25 (Channel Bandwidth: 10 MHz)	8M99D7W
	LTE Band 25 (Channel Bandwidth: 15 MHz)	13M5G7D
	LTE Band 25 (Channel Bandwidth: 20 MHz)	18M0D7W
<b>Antenna Type</b>	Refer to Note as below	
<b>Accessory Device</b>	N/A	
<b>Data Cable Supplied</b>	N/A	

Note:

1. The information of module collocated in this EUT is listed as below.

Product	Brand	Model
BT/WLAN Module	Intel	9560NGW
WWAN Module	Quectel	EM06-A

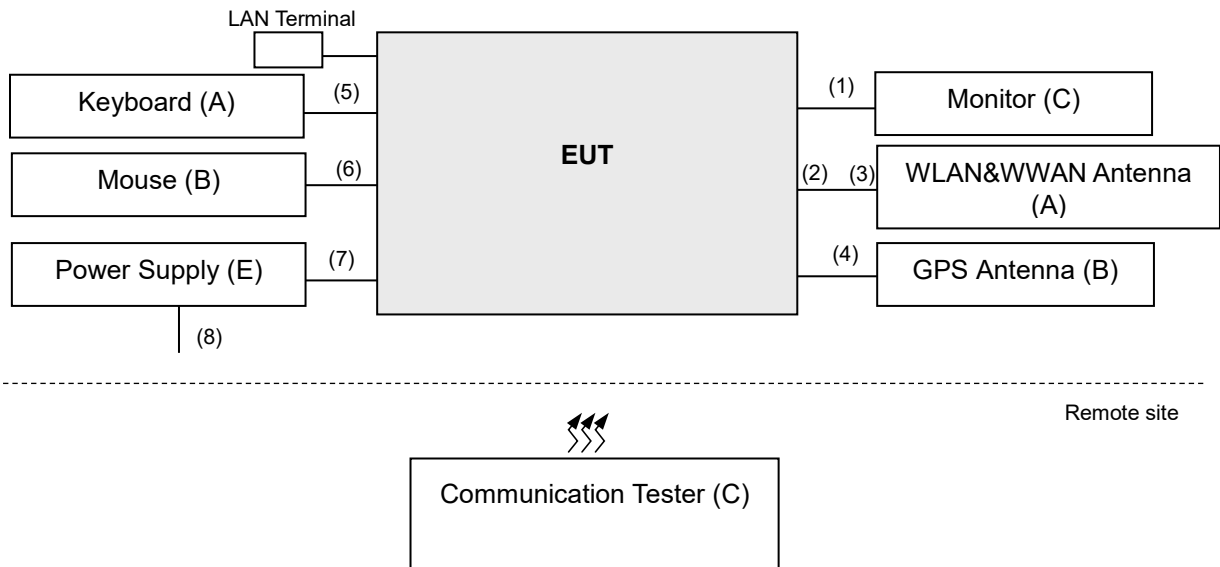
2. The antenna information is listed as below.

Ant.	Brand	Model	Antenna Type	Antenna Gain (dBi)		Remark
				WCDMA 2 / LTE 2	LTE 25	
1	TAOGLAS	MA491.A.BICG.005.gb	Multiband Antennas	-0.4	-0.4	Main Antenna
2	TAOGLAS	MA491.A.BICG.005.gb	Multiband Antennas	-0.1	-0.1	Diversity Antenna

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers 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. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Keyboard	DELL	RT7D50	CN-0J4624-37172-44T-000M	FCC DOC Approved	--
B	Mouse	DELL	MS111-L	N/A	N/A	--
C	Monitor	ViewSonic	VX2457-MHD	UG0182942333	N/A	--
D	Communication Tester	R&S	CMU200	123295	N/A	For WCDMA
		ANRITSU	MT8821C	6201502978	NA	For LTE
E	Power Supply	NA	NA	NA	NA	--
F	WLAN&WWAN Antenna	TAOGLAS	MA491.A.BICG.005.gb	NA	NA	Provided by client
G	GPS Antenna	NA	NA	NA	NA	Provided by client

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item D acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	HDMI Cable	1	2	N	0	-
2.	RF Cable	1	0.5	N	0	-
3.	RF Cable	1	0.5	N	0	-
4.	RF Cable	1	0.5	N	0	-
5.	USB Cable	1	2.4	N	0	-
6.	USB Cable	1	2.2	N	0	-
7.	DC power Cable	1	1.2	N	0	-
8.	Power Cord	1	1.8	N	0	-

### 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	EIRP	Radiated Emission
WCDMA	Z-plane	Z-plane
LTE Band 2	Z-plane	Z-plane
LTE Band 25	Z-plane	Z-plane

#### WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Modulation Characteristics	9262 to 9538	9400	WCDMA
-	Frequency Stability	9262 to 9538	9262, 9538	WCDMA
-	Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
-	Band Edge	9262 to 9538	9262, 9538	WCDMA
-	Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
-	Conducted Emission	9262 to 9538	9262, 9400, 9538	WCDMA
-	Radiated Emission	9262 to 9538	9262, 9400, 9538	WCDMA

Note: For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

**LTE Band 2**

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	18700 to 19100	18900	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	18607 to 19193	18607, 19193	1.4 MHz	QPSK	6 RB / 0 RB Offset
		18615 to 19185	18615, 19185	3 MHz	QPSK	15 RB / 0 RB Offset
		18625 to 19175	18625, 19175	5 MHz	QPSK	25 RB / 0 RB Offset
		18650 to 19150	18650, 19150	10 MHz	QPSK	50 RB / 0 RB Offset
		18675 to 19125	18675, 19125	15 MHz	QPSK	75 RB / 0 RB Offset
		18700 to 19100	18700, 19100	20 MHz	QPSK	100 RB / 0 RB Offset
-	Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Peak to Average Ratio	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Band Edge	18607 to 19193	18607	1.4 MHz	QPSK	1 RB / 0 RB Offset
			19193	1.4 MHz	QPSK	6 RB / 0 RB Offset
		18615 to 19185	18615	3 MHz	QPSK	1 RB / 5 RB Offset
			19185	3 MHz	QPSK	6 RB / 0 RB Offset
		18625 to 19175	18625	5 MHz	QPSK	1 RB / 0 RB Offset
			19175	5 MHz	QPSK	15 RB / 0 RB Offset
		18650 to 19150	18650	10 MHz	QPSK	1 RB / 14 RB Offset
			19150	10 MHz	QPSK	15 RB / 0 RB Offset
		18675 to 19125	18675	15 MHz	QPSK	1 RB / 0 RB Offset
			19125	15 MHz	QPSK	25 RB / 0 RB Offset
		18700 to 19100	18700	20 MHz	QPSK	1 RB / 24 RB Offset
			19100	20 MHz	QPSK	25 RB / 0 RB Offset
		18650 to 19150	18650	10 MHz	QPSK	1 RB / 0 RB Offset
			19150	10 MHz	QPSK	50 RB / 0 RB Offset
		18675 to 19125	18675	15 MHz	QPSK	1 RB / 49 RB Offset
			19125	15 MHz	QPSK	50 RB / 0 RB Offset
		18615 to 19185	18615	3 MHz	QPSK	1 RB / 0 RB Offset
			19185	3 MHz	QPSK	75 RB / 0 RB Offset
		18607 to 19193	18607	1.4 MHz	QPSK	1 RB / 74 RB Offset
			19193	1.4 MHz	QPSK	75 RB / 0 RB Offset
		18700 to 19100	18700	20 MHz	QPSK	1 RB / 0 RB Offset
			19100	20 MHz	QPSK	100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 0 RB Offset

**Note:**

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only EIRP, modulation characteristics, occupied bandwidth and peak to average ratio items had been tested under QPSK, 16QAM mode, the other items were performed under QPSK mode only.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

### LTE Band 25

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	26090 to 26640	26365	10 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	26047 to 26683	26047, 26683	1.4 MHz	QPSK	6 RB / 0 RB Offset
		26055 to 26675	26055, 26675	3 MHz	QPSK	15 RB / 0 RB Offset
		26065 to 26665	26065, 26665	5 MHz	QPSK	25 RB / 0 RB Offset
		26090 to 26640	26090, 26640	10 MHz	QPSK	50 RB / 0 RB Offset
		26115 to 26615	26115, 26615	15 MHz	QPSK	75 RB / 0 RB Offset
		26140 to 26590	26140, 26590	20 MHz	QPSK	100 RB / 0 RB Offset
-	Occupied Bandwidth	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Peak to Average Ratio	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Band Edge	26047 to 26683	26047	1.4 MHz	QPSK	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			26683	1.4 MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		26055 to 26675	26055	3 MHz	QPSK	1 RB / 0 RB Offset 1 RB / 0 RB Offset
			26675	3 MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		26065 to 26665	26065	5 MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			26665	5 MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		26090 to 26640	26090	10 MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			26640	10 MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		26115 to 26615	26115	15 MHz	QPSK	1 RB / 0 RB Offset 75 RB / 0 RB Offset
			26615	15 MHz	QPSK	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		26140 to 26590	26140	20 MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset
			26590	20 MHz	QPSK	1 RB / 99 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK	1 RB / 0 RB Offset

**Note:**

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only EIRP, modulation characteristics, occupied bandwidth and peak to average ratio items had been tested under QPSK, 16QAM mode, the other items were performed under QPSK mode only.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

**Test Condition:**

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25 deg. C, 65 % RH	12 Vdc	Cyril Chen / Getaz Yang
Modulation Characteristics	25 deg. C, 65 % RH	12 Vdc	Getaz Yang
Frequency Stability	25 deg. C, 65 % RH	12 Vdc	Getaz Yang
Occupied Bandwidth	25 deg. C, 65 % RH	12 Vdc	Getaz Yang
Band Edge	25 deg. C, 65 % RH	12 Vdc	Getaz Yang
Peak to Average Ratio	25 deg. C, 65 % RH	12 Vdc	Getaz Yang
Conducted Emission	25 deg. C, 65 % RH	12 Vdc	Getaz Yang
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Cyril Chen / 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 and references**

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

**Test Standard:**

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 24**

**ANSI 63.26-2015**

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

**References Test Guidance:**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

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

**NOTE:** All test items have been performed as a reference to the above KDB test guidance.



## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

#### 4.1.2 Test Procedures

##### **EIRP / ERP Measurement:**

- a. All measurements were done at low, middle and high operational frequency range. RBW is 5 MHz for WCDMA, and 1.4 MHz \ 3 MHz \ 5 MHz \ 10 MHz \ 15 MHz \ 20 MHz for LTE mode, and VBW  $\geq 3 \times$  RBW.
- 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. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.
- d. Correction Factor (includes EIRP and ERP unit conversion factor) = Antenna gain of substitution horn. – Tx cable loss. Measurement method refers to ANSI C63.26 section 5.2.7 & 5.2.4.

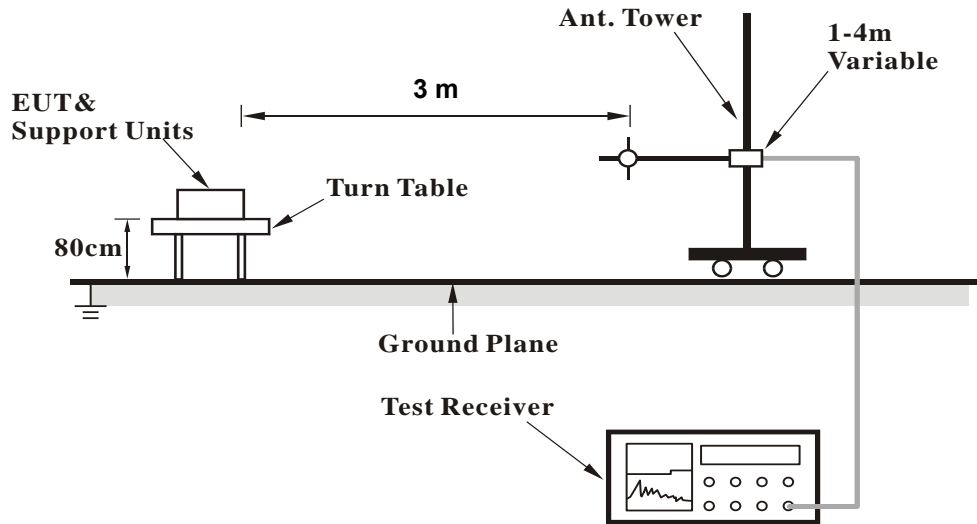
##### **Conducted Power Measurement:**

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

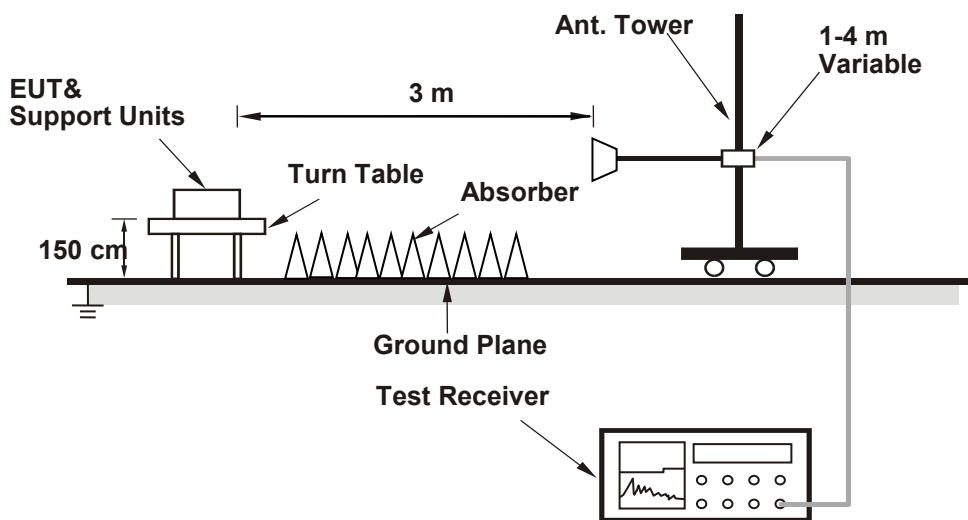
4.1.3 Test Setup

**EIRP / ERP Measurement:**

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

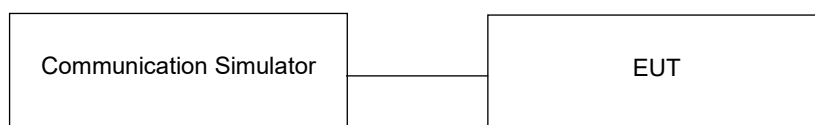


**<Radiated Emission above 1 GHz>**



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	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.73	23.98	23.22

LTE Band 2																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
				Channel	18700	18900						19100	Channel	18675		18900	19125
				Frequency (MHz)	1860.0	1880.0						1900.0	Frequency (MHz)	1857.5		1880.0	1902.5
20M	QPSK	1	0	23.98	23.38	23.45	0	15M	QPSK	1	0	23.95	23.35	23.38	0		
		1	50	23.87	23.22	23.32	0			1	37	23.83	23.14	23.28	0		
		1	99	23.73	23.10	23.10	0			1	74	23.66	23.02	23.06	0		
		50	0	22.83	22.28	22.33	1			36	0	22.77	22.22	22.27	1		
		50	25	22.61	22.10	22.15	1			36	19	22.53	22.06	22.07	1		
		50	50	22.60	22.04	22.07	1			36	39	22.54	21.97	21.99	1		
		100	0	22.79	22.21	22.23	1			75	0	22.72	22.15	22.18	1		
	16QAM	1	0	22.94	22.29	22.39	1		16QAM	1	0	22.94	22.31	22.29	1		
		1	50	22.80	22.16	22.29	1			1	37	22.76	22.13	22.27	1		
		1	99	22.68	22.05	22.07	1			1	74	22.63	21.93	21.97	1		
		50	0	21.64	21.18	21.32	2			36	0	21.57	21.07	21.17	2		
		50	25	21.54	21.04	21.11	2			36	19	21.47	20.97	21.03	2		
		50	50	21.57	20.99	21.05	2			36	39	21.53	20.96	20.95	2		
		100	0	21.70	21.15	21.19	2			75	0	21.71	21.06	21.11	2		
10M	QPSK	1	0	23.87	23.28	23.30	0	5M	QPSK	1	0	23.82	23.24	23.24	0		
		1	24	23.80	23.09	23.20	0			1	12	23.72	23.06	23.13	0		
		1	49	23.60	22.94	23.02	0			1	24	23.57	22.90	22.99	0		
		25	0	22.74	22.17	22.22	1			12	0	22.67	22.10	22.18	1		
		25	12	22.46	22.00	22.02	1			12	6	22.38	21.93	21.99	1		
		25	25	22.47	21.89	21.91	1			12	13	22.40	21.85	21.88	1		
		50	0	22.69	22.08	22.14	1			25	0	22.64	22.01	22.07	1		
	16QAM	1	0	22.81	22.21	22.24	1		16QAM	1	0	22.74	22.23	22.23	1		
		1	24	22.72	22.02	22.15	1			1	12	22.68	22.04	22.04	1		
		1	49	22.54	21.90	21.96	1			1	24	22.49	21.88	21.97	1		
		25	0	21.62	20.99	21.18	2			12	0	21.65	21.00	21.04	2		
		25	12	21.45	20.91	20.93	2			12	6	21.36	20.85	20.94	2		
		25	25	21.41	20.82	20.84	2			12	13	21.32	20.78	20.84	2		
		50	0	21.68	20.99	21.06	2			25	0	21.47	20.91	20.92	2		
3M	QPSK	1	0	23.78	23.17	23.19	0	1.4M	QPSK	1	0	23.73	23.12	23.14	0		
		1	7	23.69	23.00	23.09	0			1	2	23.68	23.05	23.09	0		
		1	14	23.49	22.82	22.92	0			1	5	23.60	22.99	23.06	0		
		8	0	22.64	22.05	22.11	1			3	0	23.54	22.91	23.03	0		
		8	3	22.34	21.86	21.91	1			3	1	23.51	22.84	22.96	0		
		8	7	22.33	21.80	21.81	1			3	3	23.43	22.76	22.90	0		
		15	0	22.57	21.97	22.00	1			6	0	22.51	21.91	21.95	1		
	16QAM	1	0	22.73	22.13	22.11	1		16QAM	1	0	22.65	22.11	22.06	1		
		1	7	22.67	21.93	22.03	1			1	2	22.64	21.98	22.07	1		
		1	14	22.45	21.78	21.86	1			1	5	22.53	21.96	22.00	1		
		8	0	21.57	20.83	21.05	2			3	0	22.46	21.87	22.02	1		
		8	3	21.27	20.83	20.90	2			3	1	22.45	21.75	21.88	1		
		8	7	21.32	20.71	20.80	2			3	3	22.38	21.67	21.86	1		
		15	0	21.46	20.80	20.91	2			6	0	21.49	20.89	20.90	2		

LTE Band 25																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
				Channel	26140	26365						26590	Channel	26115		26365	26615
				Frequency (MHz)	1860.0	1882.5						1905.0	Frequency (MHz)	1857.5		1882.5	1907.5
20M	QPSK	1	0	23.22	23.14	23.35	0	15M	QPSK	1	0	23.17	23.08	23.30	0		
		1	50	23.11	22.98	23.23	0			1	37	23.07	22.96	23.15	0		
		1	99	22.93	22.84	23.01	0			1	74	22.93	22.71	23.06	0		
		50	0	22.06	22.04	22.25	1			36	0	22.01	21.95	22.22	1		
		50	25	21.89	21.83	22.03	1			36	19	21.79	21.78	21.98	1		
		50	50	21.72	21.77	21.98	1			36	39	21.74	21.66	21.88	1		
		100	0	22.01	21.93	22.14	1			75	0	21.99	21.93	22.19	1		
	16QAM	1	0	22.14	22.05	22.28	1	16QAM	1	0	22.15	22.04	22.25	1			
		1	50	22.04	21.97	22.20	1		1	37	22.02	21.90	22.13	1			
		1	99	21.92	21.80	21.98	1		1	74	21.84	21.65	22.00	1			
		50	0	20.90	20.94	21.14	2		36	0	20.88	20.73	21.18	2			
		50	25	20.84	20.78	20.94	2		36	19	20.70	20.75	20.90	2			
		50	50	20.64	20.71	20.93	2		36	39	20.70	20.65	20.87	2			
		100	0	21.00	20.91	21.08	2		75	0	20.92	20.86	21.16	2			
10M	QPSK	1	0	23.16	23.04	23.25	0	5M	QPSK	1	0	23.09	22.97	23.17	0		
		1	24	22.94	22.89	23.09	0			1	12	22.89	22.93	23.11	0		
		1	49	22.89	22.82	22.85	0			1	24	22.87	22.74	23.00	0		
		25	0	21.91	21.83	22.11	1			12	0	21.93	21.80	22.00	1		
		25	12	21.76	21.65	21.94	1			12	6	21.80	21.60	21.87	1		
		25	25	21.65	21.63	21.84	1			12	13	21.66	21.46	21.67	1		
		50	0	21.94	21.85	22.09	1			25	0	21.91	21.76	22.05	1		
	16QAM	1	0	22.11	21.97	22.22	1	16QAM	1	0	22.04	21.92	22.13	1			
		1	24	21.87	21.88	22.02	1		1	12	21.83	21.92	22.03	1			
		1	49	21.85	21.77	21.79	1		1	24	21.84	21.69	21.96	1			
		25	0	20.74	20.82	21.02	2		12	0	20.76	20.79	20.92	2			
		25	12	20.74	20.62	20.88	2		12	6	20.79	20.59	20.78	2			
		25	25	20.64	20.56	20.79	2		12	13	20.65	20.40	20.66	2			
		50	0	20.90	20.80	21.08	2		25	0	20.70	20.56	21.01	2			
3M	QPSK	1	0	22.98	22.92	23.11	0	1.4M	QPSK	1	0	22.89	22.83	23.04	0		
		1	7	22.95	22.79	23.00	0			1	2	22.84	22.77	22.98	0		
		1	14	22.67	22.60	22.75	0			1	5	22.81	22.70	22.95	0		
		8	0	21.83	21.83	21.94	1			3	0	22.77	22.64	22.90	0		
		8	3	21.66	21.61	21.82	1			3	1	22.73	22.61	22.83	0		
		8	7	21.62	21.49	21.68	1			3	3	22.66	22.58	22.79	0		
		15	0	21.89	21.77	22.04	1			6	0	21.79	21.74	21.82	1		
	16QAM	1	0	21.96	21.91	22.06	1	16QAM	1	0	21.88	21.77	21.99	1			
		1	7	21.86	21.73	21.94	1		1	2	21.77	21.68	21.96	1			
		1	14	21.64	21.54	21.71	1		1	5	21.77	21.62	21.91	1			
		8	0	20.79	20.76	20.80	2		3	0	21.75	21.59	21.89	1			
		8	3	20.60	20.57	20.75	2		3	1	21.66	21.56	21.82	1			
		8	7	20.61	20.43	20.66	2		3	3	21.63	21.54	21.70	1			
		15	0	20.85	20.67	20.87	2		6	0	20.78	20.69	20.77	2			

**EIRP Power (dBm)**

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	9262	1852.4	-13.56	36.57	23.01	199.99	H
	9400	1880.0	-13.86	37.22	23.36	216.77	
	9538	1907.6	-14.01	37.18	23.17	207.49	
	9262	1852.4	-19.39	37.65	18.26	66.99	V
	9400	1880.0	-18.73	37.58	18.85	76.74	
	9538	1907.6	-18.95	37.48	18.53	71.29	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18607	1850.7	-13.47	36.57	23.10	204.17	H
	18900	1880.0	-14.78	37.22	22.44	175.39	
	19193	1909.3	-14.61	37.18	22.57	180.72	
	18607	1850.7	-18.62	37.65	19.03	79.98	V
	18900	1880.0	-19.34	37.58	18.24	66.68	
	19193	1909.3	-19.12	37.48	18.36	68.55	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	18607	1850.7	-14.58	36.57	21.99	158.12	H
	18900	1880.0	-15.93	37.22	21.29	134.59	
	19193	1909.3	-15.78	37.18	21.40	138.04	
	18607	1850.7	-19.59	37.65	18.06	63.97	V
	18900	1880.0	-20.17	37.58	17.41	55.08	
	19193	1909.3	-19.98	37.48	17.50	56.23	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18615	1851.5	-13.39	36.57	23.18	207.97	H
	18900	1880.0	-14.71	37.22	22.51	178.24	
	19185	1908.5	-14.57	37.18	22.61	182.39	
	18615	1851.5	-18.55	37.65	19.10	81.28	V
	18900	1880.0	-19.27	37.58	18.31	67.76	
	19185	1908.5	-19.06	37.48	18.42	69.50	
Channel Bandwidth: 3 MHz / 16QAM							
Z	18615	1851.5	-14.51	36.57	22.06	160.69	H
	18900	1880.0	-15.84	37.22	21.38	137.40	
	19185	1908.5	-15.71	37.18	21.47	140.28	
	18615	1851.5	-19.49	37.65	18.16	65.46	V
	18900	1880.0	-20.08	37.58	17.50	56.23	
	19185	1908.5	-19.89	37.48	17.59	57.41	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18625	1852.5	-13.33	36.57	23.24	210.86	H
	18900	1880.0	-14.65	37.22	22.57	180.72	
	19175	1907.5	-14.48	37.18	22.70	186.21	
	18625	1852.5	-18.48	37.65	19.17	82.60	V
	18900	1880.0	-19.20	37.58	18.38	68.87	
	19175	1907.5	-18.98	37.48	18.50	70.79	
Channel Bandwidth: 5 MHz / 16QAM							
Z	18625	1852.5	-14.43	36.57	22.14	163.68	H
	18900	1880.0	-15.76	37.22	21.46	139.96	
	19175	1907.5	-15.65	37.18	21.53	142.23	
	18625	1852.5	-19.40	37.65	18.25	66.83	V
	18900	1880.0	-20.00	37.58	17.58	57.28	
	19175	1907.5	-19.82	37.48	17.66	58.34	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18650	1855.0	-13.24	36.57	23.33	215.28	H
	18900	1880.0	-14.60	37.22	22.62	182.81	
	19150	1905.0	-14.42	37.18	22.76	188.80	
	18650	1855.0	-18.41	37.65	19.24	83.95	V
	18900	1880.0	-19.12	37.58	18.46	70.15	
	19150	1905.0	-18.90	37.48	18.58	72.11	
Channel Bandwidth: 10 MHz / 16QAM							
Z	18650	1855.0	-14.36	36.57	22.21	166.34	H
	18900	1880.0	-15.69	37.22	21.53	142.23	
	19150	1905.0	-15.54	37.18	21.64	145.88	
	18650	1855.0	-19.33	37.65	18.32	67.92	V
	18900	1880.0	-19.93	37.58	17.65	58.21	
	19150	1905.0	-19.73	37.48	17.75	59.57	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18675	1857.5	-13.17	36.57	23.40	218.78	H
	18900	1880.0	-14.50	37.22	22.72	187.07	
	19125	1902.5	-14.34	37.18	22.84	192.31	
	18675	1857.5	-18.34	37.65	19.31	85.31	V
	18900	1880.0	-19.05	37.58	18.53	71.29	
	19125	1902.5	-18.83	37.48	18.65	73.28	
Channel Bandwidth: 15 MHz / 16QAM							
Z	18675	1857.5	-14.29	36.57	22.28	169.04	H
	18900	1880.0	-15.58	37.22	21.64	145.88	
	19125	1902.5	-15.45	37.18	21.73	148.94	
	18675	1857.5	-19.25	37.65	18.40	69.18	V
	18900	1880.0	-19.85	37.58	17.73	59.29	
	19125	1902.5	-19.64	37.48	17.84	60.81	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18700	1860.0	-13.11	36.57	23.46	221.82	H
	18900	1880.0	-14.42	37.22	22.80	190.55	
	19100	1900.0	-14.29	37.18	22.89	194.54	
	18700	1860.0	-18.28	37.65	19.37	86.50	V
	18900	1880.0	-18.95	37.58	18.63	72.95	
	19100	1900.0	-18.77	37.48	18.71	74.30	
Channel Bandwidth: 20 MHz / 16QAM							
Z	18700	1860.0	-14.24	36.57	22.33	171.00	H
	18900	1880.0	-15.49	37.22	21.73	148.94	
	19100	1900.0	-15.37	37.18	21.81	151.71	
	18700	1860.0	-19.18	37.65	18.47	70.31	V
	18900	1880.0	-19.76	37.58	17.82	60.53	
	19100	1900.0	-19.58	37.48	17.90	61.66	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26047	1850.7	-14.27	36.57	22.30	169.82	H
	26365	1882.5	-15.07	37.22	22.15	164.06	
	26683	1914.3	-16.68	39.09	22.41	174.18	
	26047	1850.7	-19.47	37.65	18.18	65.77	V
	26365	1882.5	-19.65	37.58	17.93	62.09	
	26683	1914.3	-19.62	37.92	18.30	67.61	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	26047	1850.7	-15.38	36.57	21.19	131.52	H
	26365	1882.5	-16.30	37.22	20.92	123.59	
	26683	1914.3	-17.75	39.09	21.34	136.14	
	26047	1850.7	-20.59	37.65	17.06	50.82	V
	26365	1882.5	-20.71	37.58	16.87	48.64	
	26683	1914.3	-20.69	37.92	17.23	52.84	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)



LTE Band 25							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26055	1851.5	-14.19	36.57	22.38	172.98	H
	26365	1882.5	-15.00	37.22	22.22	166.72	
	26675	1913.5	-16.62	39.11	22.49	177.42	
	26055	1851.5	-19.38	37.65	18.27	67.14	V
	26365	1882.5	-19.57	37.58	18.01	63.24	
	26675	1913.5	-19.55	37.93	18.38	68.87	
Channel Bandwidth: 3 MHz / 16QAM							
Z	26055	1851.5	-15.28	36.57	21.29	134.59	H
	26365	1882.5	-16.21	37.22	21.01	126.18	
	26675	1913.5	-17.68	39.11	21.43	139.00	
	26055	1851.5	-20.50	37.65	17.15	51.88	V
	26365	1882.5	-20.64	37.58	16.94	49.43	
	26675	1913.5	-20.60	37.93	17.33	54.08	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26065	1852.5	-14.11	36.57	22.46	176.20	H
	26365	1882.5	-14.90	37.22	22.32	170.61	
	26665	1912.5	-15.54	38.11	22.57	180.72	
	26065	1852.5	-19.29	37.65	18.36	68.55	V
	26365	1882.5	-19.47	37.58	18.11	64.71	
	26665	1912.5	-19.49	37.96	18.47	70.31	
Channel Bandwidth: 5 MHz / 16QAM							
Z	26065	1852.5	-15.20	36.57	21.37	137.09	H
	26365	1882.5	-16.12	37.22	21.10	128.82	
	26665	1912.5	-16.57	38.11	21.54	142.56	
	26065	1852.5	-20.39	37.65	17.26	53.21	V
	26365	1882.5	-20.57	37.58	17.01	50.23	
	26665	1912.5	-20.52	37.96	17.44	55.46	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26090	1855.0	-14.04	36.57	22.53	179.06	H
	26365	1882.5	-14.83	37.22	22.39	173.38	
	26640	1910.0	-15.55	38.19	22.64	183.65	
	26090	1855.0	-19.22	37.65	18.43	69.66	V
	26365	1882.5	-19.36	37.58	18.22	66.37	
	26640	1910.0	-19.56	38.15	18.59	72.28	
Channel Bandwidth: 10 MHz / 16QAM							
Z	26090	1855.0	-15.13	36.57	21.44	139.32	H
	26365	1882.5	-16.03	37.22	21.19	131.52	
	26640	1910.0	-16.56	38.19	21.63	145.55	
	26090	1855.0	-20.30	37.65	17.35	54.33	V
	26365	1882.5	-20.49	37.58	17.09	51.17	
	26640	1910.0	-20.62	38.15	17.53	56.62	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26115	1857.5	-13.95	36.57	22.62	182.81	H
	26365	1882.5	-14.75	37.22	22.47	176.60	
	26615	1907.5	-15.46	38.23	22.77	189.23	
	26115	1857.5	-19.06	37.65	18.59	72.28	V
	26365	1882.5	-19.26	37.58	18.32	67.92	
	26615	1907.5	-19.56	38.22	18.66	73.45	
Channel Bandwidth: 15 MHz / 16QAM							
Z	26115	1857.5	-15.04	36.57	21.53	142.23	H
	26365	1882.5	-15.95	37.22	21.27	133.97	
	26615	1907.5	-16.47	38.23	21.76	149.97	
	26115	1857.5	-20.22	37.65	17.43	55.34	V
	26365	1882.5	-20.41	37.58	17.17	52.12	
	26615	1907.5	-20.60	38.22	17.62	57.81	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26140	1860.0	-13.89	36.57	22.68	185.35	H
	26365	1882.5	-14.69	37.22	22.53	179.06	
	26590	1905.0	-15.86	38.72	22.86	193.20	
	26140	1860.0	-19.00	37.65	18.65	73.28	V
	26365	1882.5	-19.17	37.58	18.41	69.34	
	26590	1905.0	-18.79	37.56	18.77	75.34	
Channel Bandwidth: 20 MHz / 16QAM							
Z	26140	1860.0	-14.95	36.57	21.62	145.21	H
	26365	1882.5	-15.87	37.22	21.35	136.46	
	26590	1905.0	-16.84	38.72	21.88	154.17	
	26140	1860.0	-20.14	37.65	17.51	56.36	V
	26365	1882.5	-20.34	37.58	17.24	52.97	
	26590	1905.0	-19.78	37.56	17.78	59.98	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

## 4.2 Modulation Characteristics Measurement

### 4.2.1 Limits of Modulation Characteristics

N/A

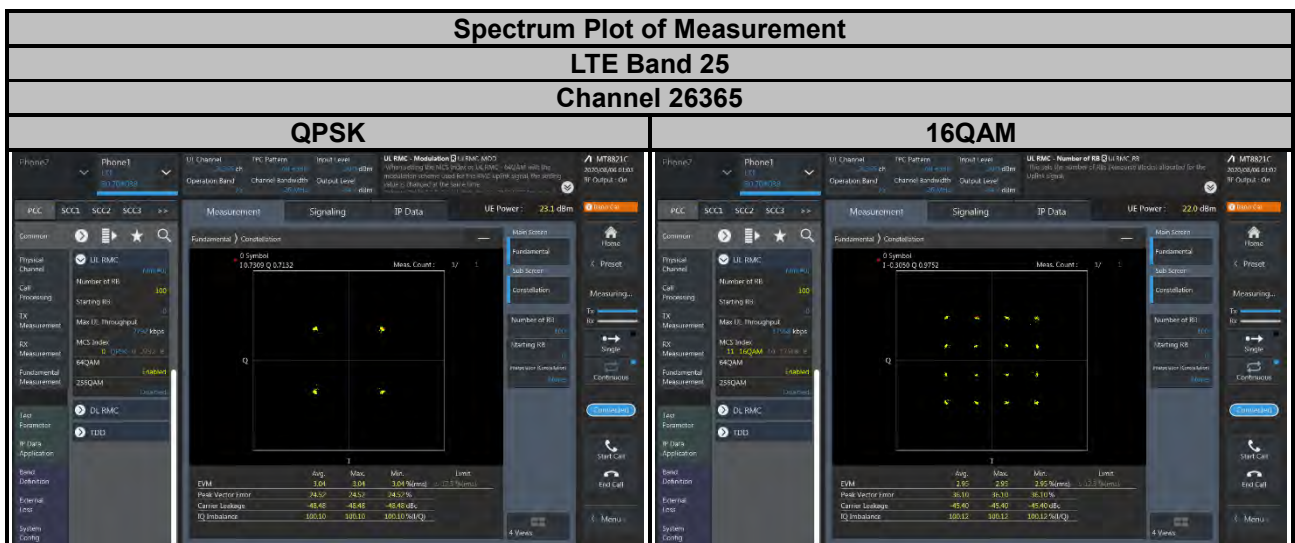
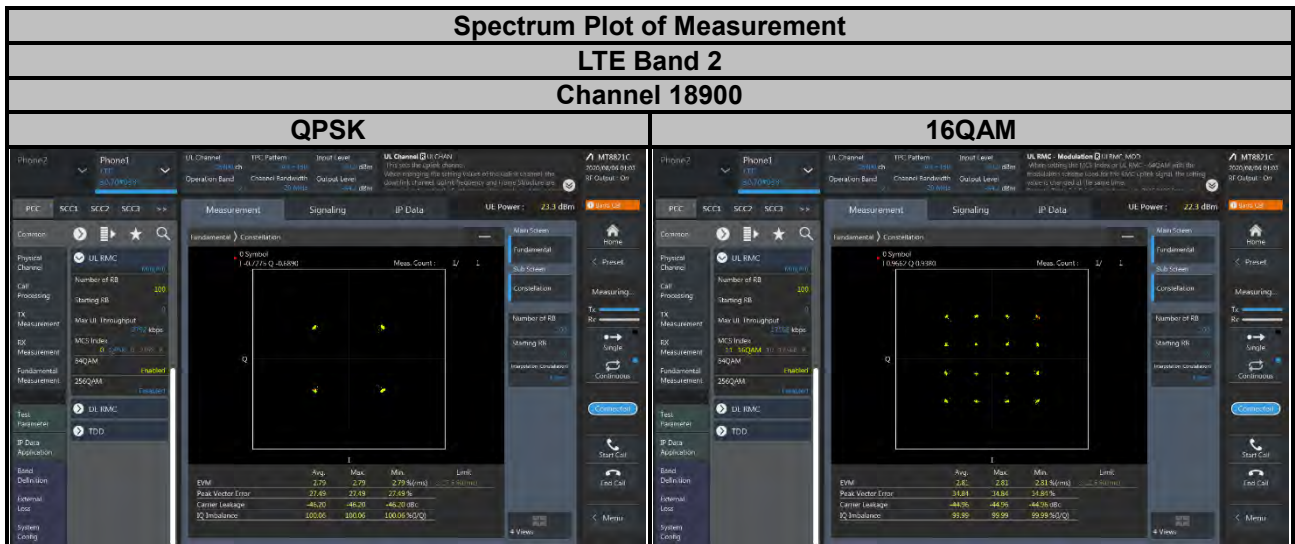
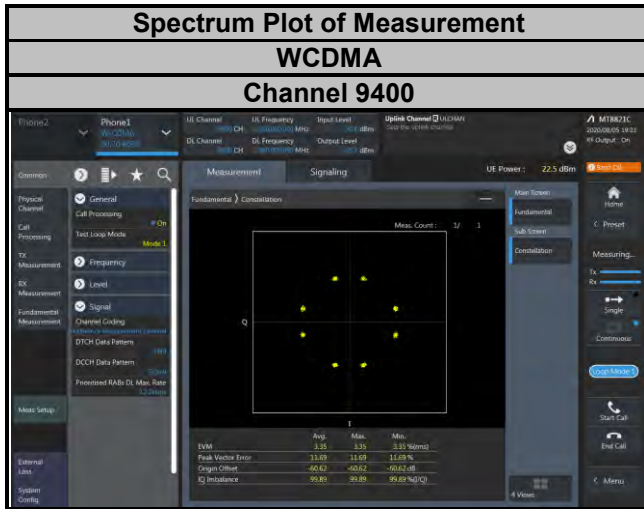
### 4.2.2 Test Setup



### 4.2.3 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector. The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

### 4.2.4 Test Results



### 4.3 Frequency Stability Measurement

#### 4.3.1 Limits of Frequency Stability Measurement

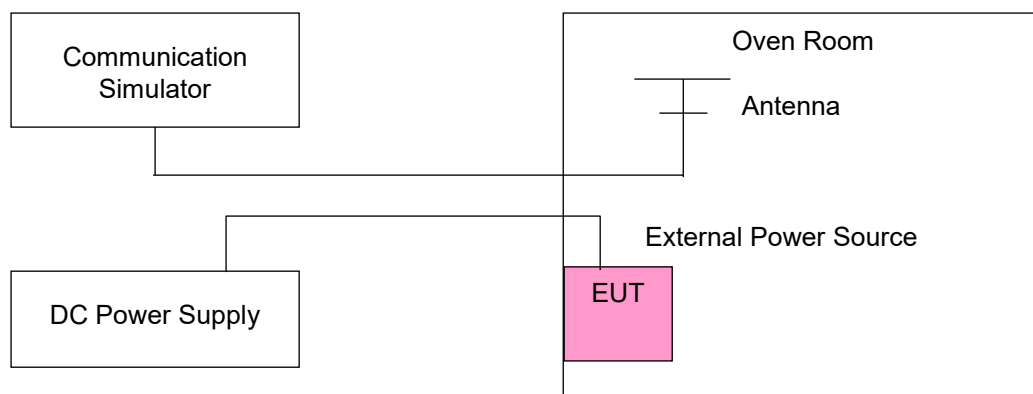
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 4.3.2 Test Procedure

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

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

#### 4.3.3 Test Setup



#### 4.3.4 Test Results

##### Frequency Error vs. Voltage

Voltage (Volts)	WCDMA			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1852.400004	0.002	1907.600002	0.001
10.2	1852.400002	0.001	1907.600003	0.002
13.8	1852.400002	0.001	1907.600003	0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

##### Frequency Error vs. Temperature

Temp. (°C)	WCDMA			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.400002	0.001	1907.600003	0.002
-20	1852.400001	0.001	1907.600002	0.001
-10	1852.400002	0.001	1907.600002	0.001
0	1852.400002	0.001	1907.600004	0.002
10	1852.399998	-0.001	1907.599998	-0.001
20	1852.399998	-0.001	1907.599997	-0.002
30	1852.399999	-0.001	1907.599996	-0.002
40	1852.399996	-0.002	1907.599997	-0.001
50	1852.399998	-0.001	1907.599998	-0.001
60	1852.399998	-0.001	1907.599998	-0.001
70	1852.399997	-0.002	1907.599998	-0.001
80	1852.399999	-0.001	1907.599997	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1850.700001	0.001	1909.300000	-0.001
10.2	1850.700004	0.002	1909.299998	-0.001
13.8	1850.700002	0.001	1909.299998	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.700003	0.002	1909.300003	0.001
-20	1850.700002	0.001	1909.300001	0.001
-10	1850.700002	0.001	1909.300003	0.002
0	1850.700002	0.001	1909.300001	0.001
10	1850.699998	-0.001	1909.300002	0.001
20	1850.699998	-0.001	1909.300001	0.001
30	1850.699999	-0.001	1909.300001	0.001
40	1850.699998	-0.001	1909.299997	-0.002
50	1850.699999	-0.001	1909.299997	-0.002
60	1850.699999	-0.001	1909.299998	-0.001
70	1850.699999	-0.001	1909.299996	-0.002
80	1850.699997	-0.001	1909.299996	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1851.500003	0.002	1908.499999	-0.001
10.2	1851.500003	0.002	1908.499998	-0.001
13.8	1851.500003	0.002	1908.499996	-0.002

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.500001	0.001	1908.500003	0.002
-20	1851.500002	0.001	1908.500002	0.001
-10	1851.500004	0.002	1908.500004	0.002
0	1851.500002	0.001	1908.500003	0.002
10	1851.499998	-0.001	1908.500003	0.002
20	1851.499998	-0.001	1908.500002	0.001
30	1851.499998	-0.001	1908.500004	0.002
40	1851.499998	-0.001	1908.499998	-0.001
50	1851.499997	-0.002	1908.499999	-0.001
60	1851.499997	-0.002	1908.499997	-0.001
70	1851.499997	-0.002	1908.499998	-0.001
80	1851.499999	-0.001	1908.499998	-0.001

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1852.500004	0.002	1907.499999	-0.001
10.2	1852.500003	0.002	1907.499999	-0.001
13.8	1852.500002	0.001	1907.499998	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.500001	0.001	1907.500002	0.001
-20	1852.500002	0.001	1907.500002	0.001
-10	1852.500002	0.001	1907.500003	0.002
0	1852.500001	0.001	1907.500003	0.001
10	1852.499998	-0.001	1907.500004	0.002
20	1852.499996	-0.002	1907.500004	0.002
30	1852.499999	-0.001	1907.500002	0.001
40	1852.499997	-0.001	1907.499999	-0.001
50	1852.499999	-0.001	1907.499996	-0.002
60	1852.499996	-0.002	1907.499998	-0.001
70	1852.499997	-0.002	1907.499997	-0.002
80	1852.499999	-0.001	1907.499998	-0.001

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1855.000001	0.001	1904.999998	-0.001
10.2	1855.000001	0.001	1904.999996	-0.002
13.8	1855.000003	0.002	1904.999997	-0.002

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1855.000003	0.002	1905.000004	0.002
-20	1855.000002	0.001	1905.000002	0.001
-10	1855.000003	0.001	1905.000002	0.001
0	1855.000002	0.001	1905.000003	0.002
10	1854.999999	-0.001	1905.000004	0.002
20	1854.999998	-0.001	1905.000002	0.001
30	1854.999996	-0.002	1905.000002	0.001
40	1854.999999	-0.001	1904.999998	-0.001
50	1854.999999	-0.001	1904.999998	-0.001
60	1854.999998	-0.001	1904.999996	-0.002
70	1854.999999	-0.001	1904.999998	-0.001
80	1854.999998	-0.001	1904.999997	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1857.500002	0.001	1902.499999	-0.001
10.2	1857.500003	0.002	1902.499997	-0.002
13.8	1857.500002	0.001	1902.499998	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.500003	0.001	1902.500002	0.001
-20	1857.500002	0.001	1902.500003	0.002
-10	1857.500002	0.001	1902.500003	0.002
0	1857.500004	0.002	1902.500002	0.001
10	1857.499999	-0.001	1902.500002	0.001
20	1857.499997	-0.002	1902.500002	0.001
30	1857.499996	-0.002	1902.500003	0.001
40	1857.499996	-0.002	1902.499997	-0.001
50	1857.499997	-0.002	1902.499998	-0.001
60	1857.499999	-0.001	1902.499996	-0.002
70	1857.499999	-0.001	1902.499996	-0.002
80	1857.499998	-0.001	1902.499997	-0.001

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1860.000001	0.001	1899.999998	-0.001
10.2	1860.000002	0.001	1899.999996	-0.002
13.8	1860.000004	0.002	1899.999997	-0.002

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000004	0.002	1900.000004	0.002
-20	1860.000001	0.001	1900.000003	0.001
-10	1860.000003	0.001	1900.000002	0.001
0	1860.000003	0.001	1900.000003	0.001
10	1859.999998	-0.001	1900.000001	0.001
20	1859.999996	-0.002	1900.000002	0.001
30	1859.999998	-0.001	1900.000004	0.002
40	1859.999996	-0.002	1899.999997	-0.002
50	1859.999999	-0.001	1899.999999	-0.001
60	1859.999998	-0.001	1899.999998	-0.001
70	1859.999996	-0.002	1899.999998	-0.001
80	1859.999998	-0.001	1899.999998	-0.001

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1850.700002	0.001	1914.299997	-0.002
10.2	1850.700003	0.002	1914.299998	-0.001
13.8	1850.700002	0.001	1914.299998	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.700003	0.002	1914.300002	0.001
-20	1850.700003	0.002	1914.300003	0.002
-10	1850.700001	0.001	1914.300001	0.001
0	1850.700003	0.002	1914.300003	0.002
10	1850.699998	-0.001	1914.300002	0.001
20	1850.699997	-0.002	1914.300001	0.001
30	1850.699998	-0.001	1914.300002	0.001
40	1850.699997	-0.002	1914.299997	-0.001
50	1850.699998	-0.001	1914.299997	-0.001
60	1850.699999	-0.001	1914.299998	-0.001
70	1850.699998	-0.001	1914.299999	-0.001
80	1850.699996	-0.002	1914.299998	-0.001

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1851.500004	0.002	1913.499998	-0.001
10.2	1851.500003	0.002	1913.499998	-0.001
13.8	1851.500003	0.002	1913.499996	-0.002

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.500002	0.001	1913.500003	0.002
-20	1851.500002	0.001	1913.500002	0.001
-10	1851.500003	0.001	1913.500002	0.001
0	1851.500003	0.002	1913.500002	0.001
10	1851.499999	-0.001	1913.500003	0.002
20	1851.499997	-0.002	1913.500003	0.002
30	1851.499998	-0.001	1913.500004	0.002
40	1851.499997	-0.002	1913.499998	-0.001
50	1851.499997	-0.002	1913.499999	-0.001
60	1851.499997	-0.002	1913.499998	-0.001
70	1851.499997	-0.002	1913.499996	-0.002
80	1851.499997	-0.002	1913.499996	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1852.500003	0.002	1912.499999	-0.001
10.2	1852.500004	0.002	1912.499998	-0.001
13.8	1852.500004	0.002	1912.499999	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.500001	0.001	1912.500002	0.001
-20	1852.500002	0.001	1912.500003	0.002
-10	1852.500001	0.001	1912.500003	0.001
0	1852.500001	0.001	1912.500004	0.002
10	1852.499997	-0.001	1912.500004	0.002
20	1852.499998	-0.001	1912.500004	0.002
30	1852.499996	-0.002	1912.500003	0.001
40	1852.499998	-0.001	1912.499997	-0.002
50	1852.499999	-0.001	1912.499998	-0.001
60	1852.499996	-0.002	1912.499999	-0.001
70	1852.499999	-0.001	1912.499997	-0.002
80	1852.499997	-0.001	1912.499997	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1855.000004	0.002	1909.999999	-0.001
10.2	1855.000002	0.001	1909.999998	-0.001
13.8	1855.000003	0.001	1909.999997	-0.002

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1855.000004	0.002	1910.000003	0.002
-20	1855.000002	0.001	1910.000002	0.001
-10	1855.000001	0.001	1910.000004	0.002
0	1855.000002	0.001	1910.000003	0.001
10	1854.999998	-0.001	1910.000002	0.001
20	1854.999997	-0.001	1910.000002	0.001
30	1854.999997	-0.001	1910.000002	0.001
40	1854.999999	-0.001	1909.999998	-0.001
50	1854.999997	-0.002	1909.999996	-0.002
60	1854.999997	-0.002	1909.999997	-0.001
70	1854.999998	-0.001	1909.999997	-0.002
80	1854.999997	-0.002	1909.999998	-0.001

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1857.500002	0.001	1907.499999	-0.001
10.2	1857.500002	0.001	1907.499996	-0.002
13.8	1857.500002	0.001	1907.499998	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.500002	0.001	1907.500002	0.001
-20	1857.500003	0.001	1907.500002	0.001
-10	1857.500004	0.002	1907.500004	0.002
0	1857.500002	0.001	1907.500003	0.002
10	1857.499997	-0.001	1907.500003	0.002
20	1857.499996	-0.002	1907.500003	0.002
30	1857.499997	-0.002	1907.500004	0.002
40	1857.499997	-0.001	1907.499999	-0.001
50	1857.499999	-0.001	1907.499999	-0.001
60	1857.499997	-0.002	1907.499998	-0.001
70	1857.499996	-0.002	1907.499996	-0.002
80	1857.499996	-0.002	1907.499996	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
12	1860.000002	0.001	1904.999997	-0.001
10.2	1860.000004	0.002	1904.999997	-0.002
13.8	1860.000001	0.001	1904.999998	-0.001

**Note:** The applicant defined the normal working voltage of the battery is from 10.2 Vdc to 13.8 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000001	0.001	1905.000002	0.001
-20	1860.000003	0.002	1905.000004	0.002
-10	1860.000002	0.001	1905.000003	0.002
0	1860.000004	0.002	1905.000001	0.001
10	1859.999998	-0.001	1905.000002	0.001
20	1859.999998	-0.001	1905.000001	0.001
30	1859.999999	-0.001	1905.000002	0.001
40	1859.999999	-0.001	1904.999997	-0.002
50	1859.999998	-0.001	1904.999997	-0.002
60	1859.999998	-0.001	1904.999998	-0.001
70	1859.999996	-0.002	1904.999997	-0.001
80	1859.999996	-0.002	1904.999997	-0.002

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 80°C.
2. The EUT would shut down automatically as below -30°C.

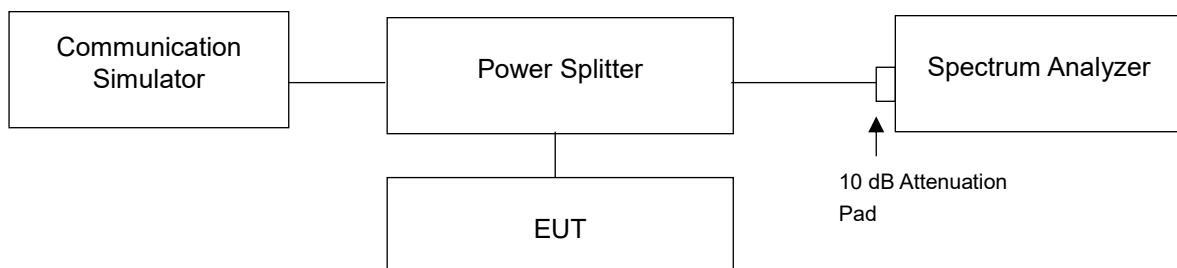
## 4.4 Occupied Bandwidth Measurement

### 4.4.1 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. Measurement method, please refer to section 5.4.4 of ANSI C63.26. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

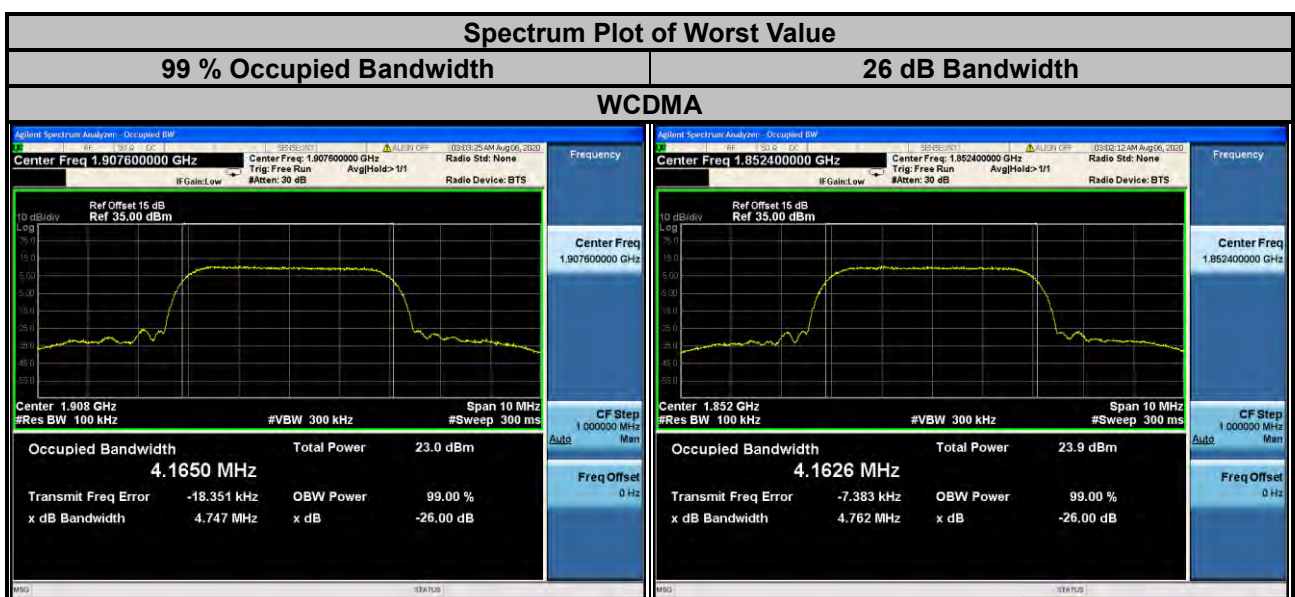
For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

### 4.4.2 Test Setup



### 4.4.3 Test Result

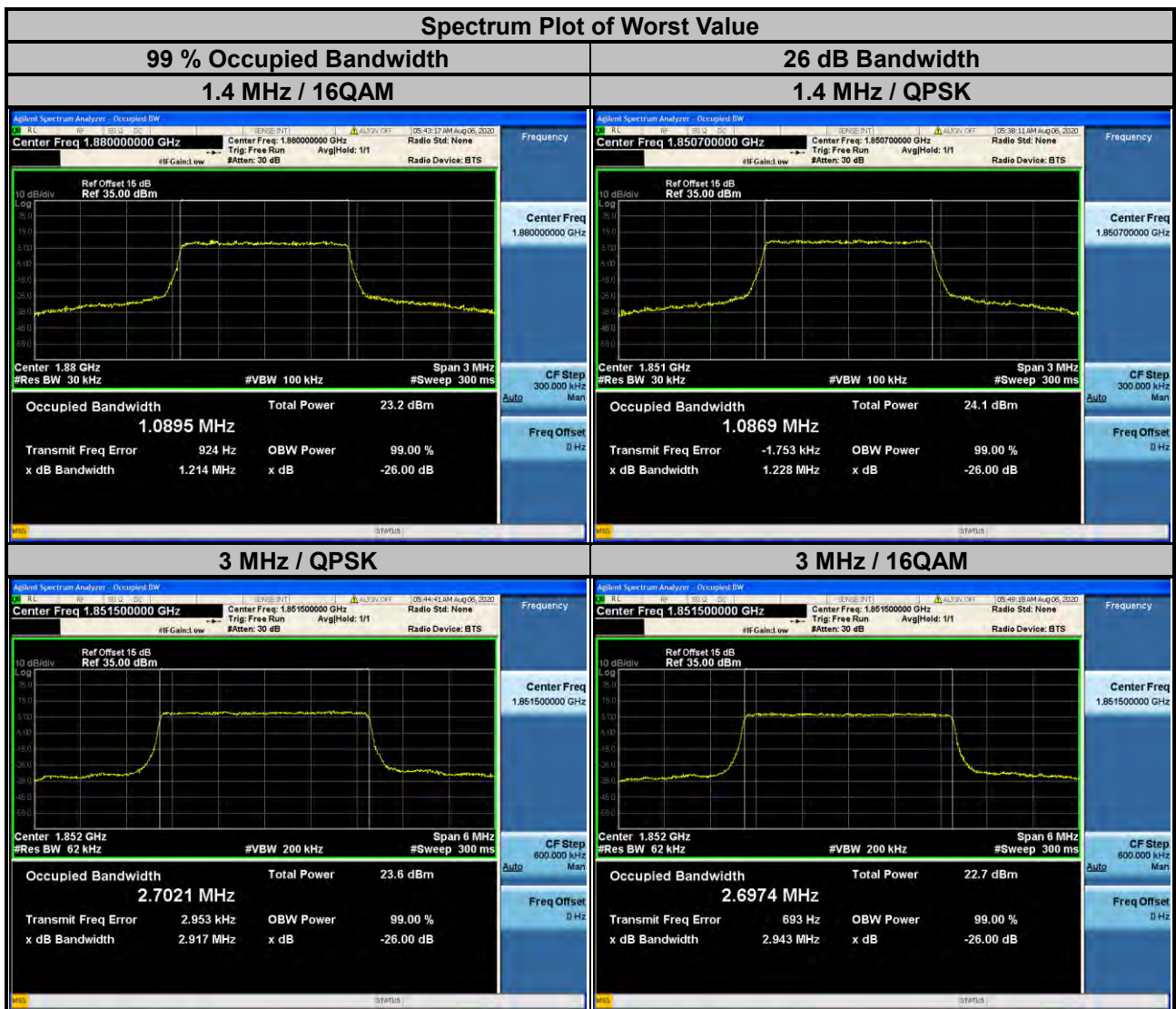
WCDMA			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.16	4.76
9400	1880.0	4.16	4.74
9538	1907.6	4.17	4.75



LTE Band 2					
Channel Bandwidth: 1.4 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18607	1850.7	1.09	1.09	1.23	1.21
18900	1880.0	1.09	1.09	1.22	1.21
19193	1909.3	1.09	1.09	1.22	1.22

Channel Bandwidth: 3 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18615	1851.5	2.70	2.70	2.92	2.94
18900	1880.0	2.70	2.70	2.93	2.93
19185	1908.5	2.70	2.70	2.94	2.91



LTE Band 2					
Channel Bandwidth: 5 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18625	1852.5	4.49	4.49	4.80	4.80
18900	1880.0	4.49	4.49	4.81	4.81
19175	1907.5	4.49	4.49	4.81	4.80

Channel Bandwidth: 10 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18650	1855.0	8.97	8.97	9.50	9.53
18900	1880.0	8.96	8.96	9.51	9.52
19150	1905.0	8.96	8.95	9.50	9.50



LTE Band 2					
Channel Bandwidth: 15 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18675	1857.5	13.48	13.46	14.28	14.28
18900	1880.0	13.46	13.44	14.25	14.24
19125	1902.5	13.43	13.42	14.24	14.22

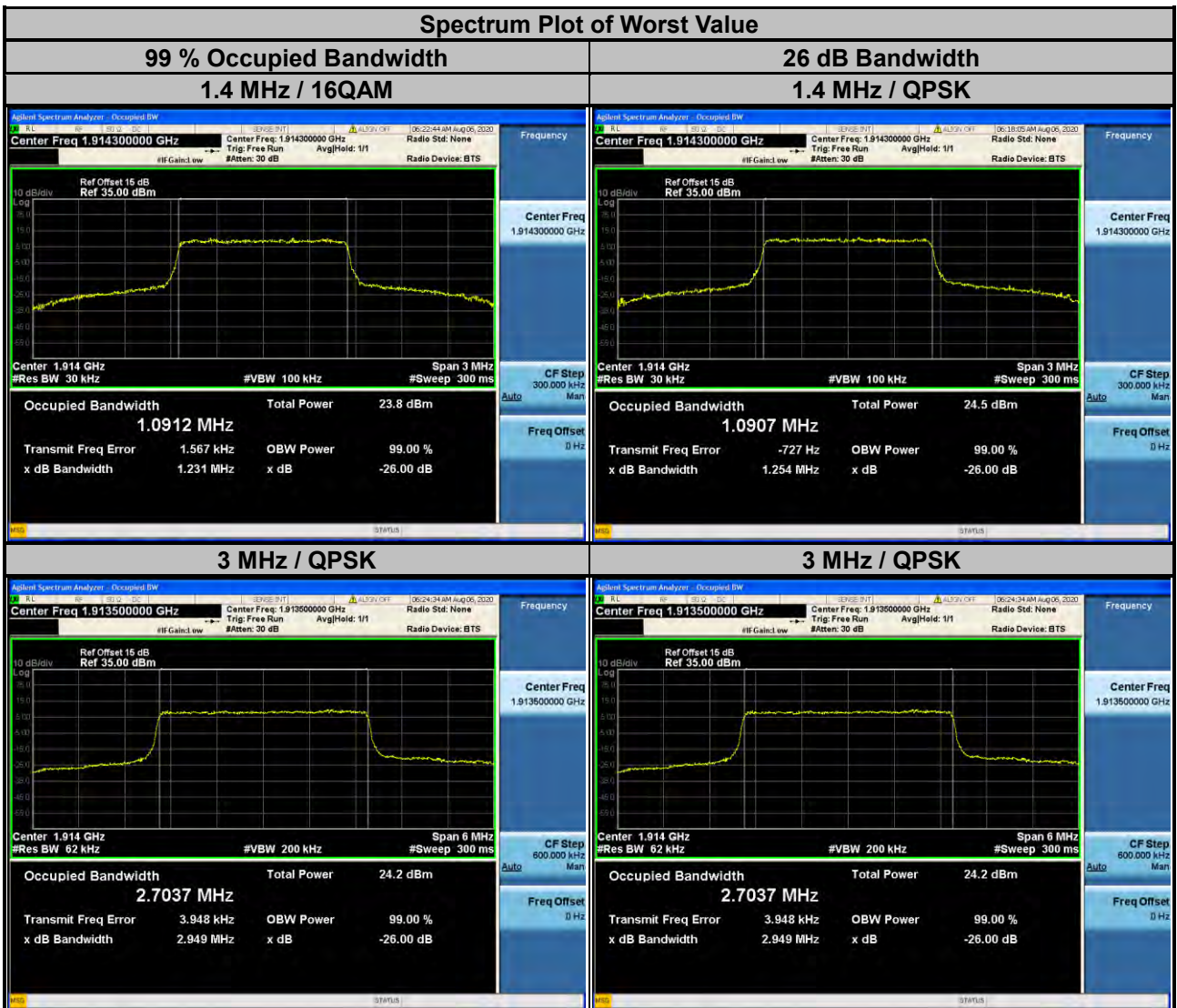
Channel Bandwidth: 20 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18700	1860.0	17.95	17.97	19.05	19.06
18900	1880.0	17.91	17.93	19.02	19.02
19100	1900.0	17.89	17.90	19.01	19.00



LTE Band 25					
Channel Bandwidth: 1.4 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26047	1850.7	1.09	1.09	1.22	1.22
26365	1882.5	1.09	1.09	1.23	1.22
26683	1914.3	1.09	1.09	1.25	1.23

Channel Bandwidth: 3 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26055	1851.5	2.70	2.70	2.93	2.93
26365	1882.5	2.70	2.70	2.94	2.93
26675	1913.5	2.70	2.70	2.95	2.94





LTE Band 25					
Channel Bandwidth: 5 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26065	1852.5	4.49	4.49	4.79	4.81
26365	1882.5	4.49	4.49	4.79	4.81
26665	1912.5	4.49	4.49	4.82	4.83

Channel Bandwidth: 10 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26090	1855.0	8.97	8.97	9.51	9.52
26365	1882.5	8.96	8.96	9.52	9.51
26640	1910.0	8.99	8.99	9.54	9.52



LTE Band 25					
Channel Bandwidth: 15 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26115	1857.5	13.48	13.47	14.28	14.27
26365	1882.5	13.47	13.45	14.28	14.25
26615	1907.5	13.49	13.47	14.31	14.25

Channel Bandwidth: 20 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26140	1860.0	17.95	17.97	19.04	19.04
26365	1882.5	17.93	17.95	19.01	19.01
26590	1905.0	17.92	17.94	19.05	19.01

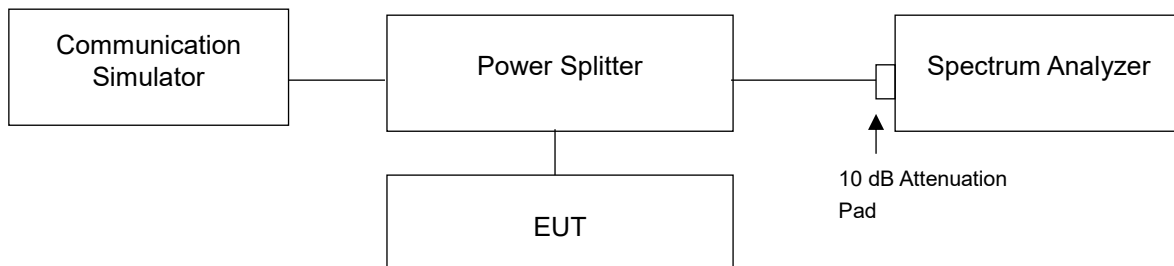


## 4.5 Band Edge Measurement

### 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.

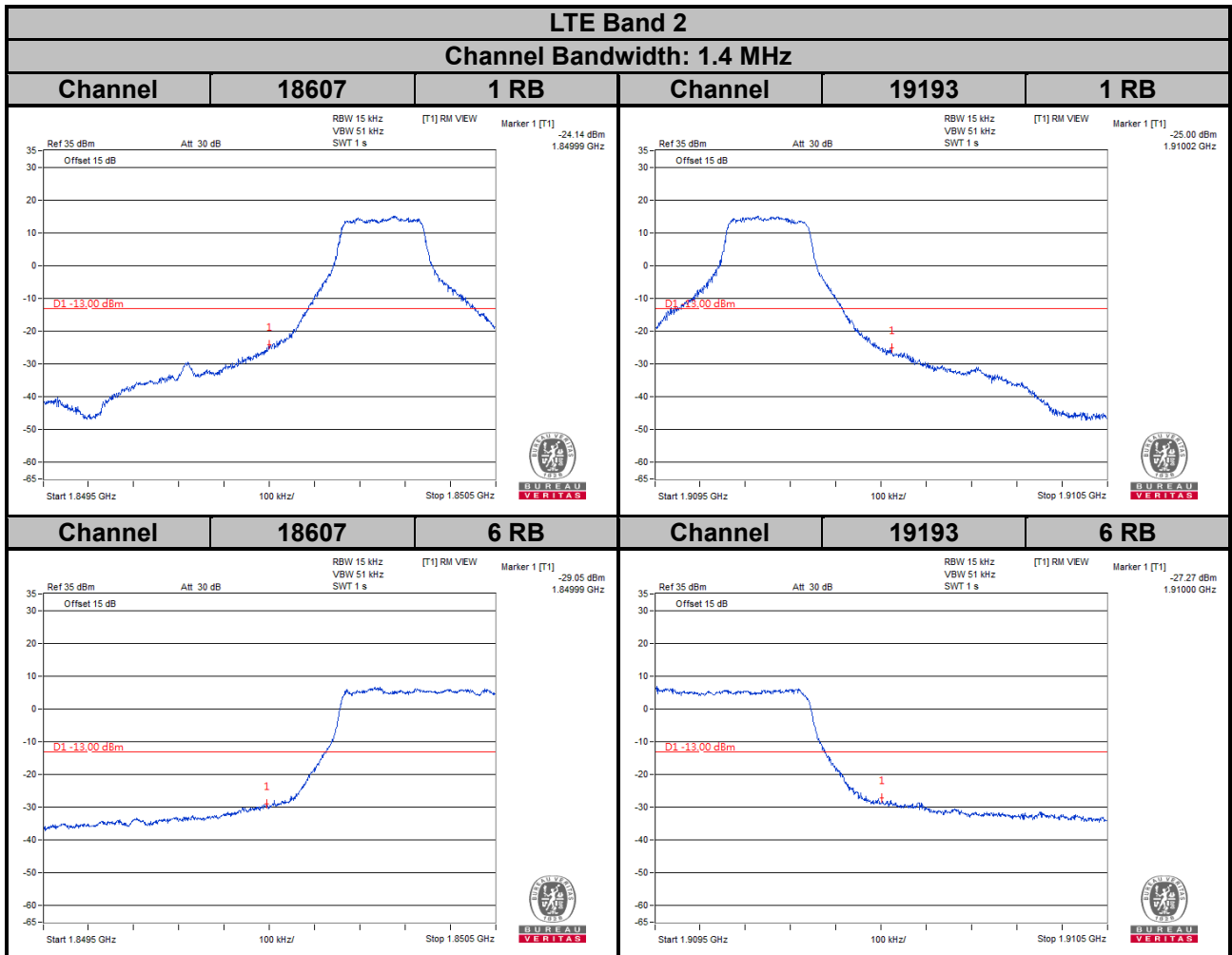
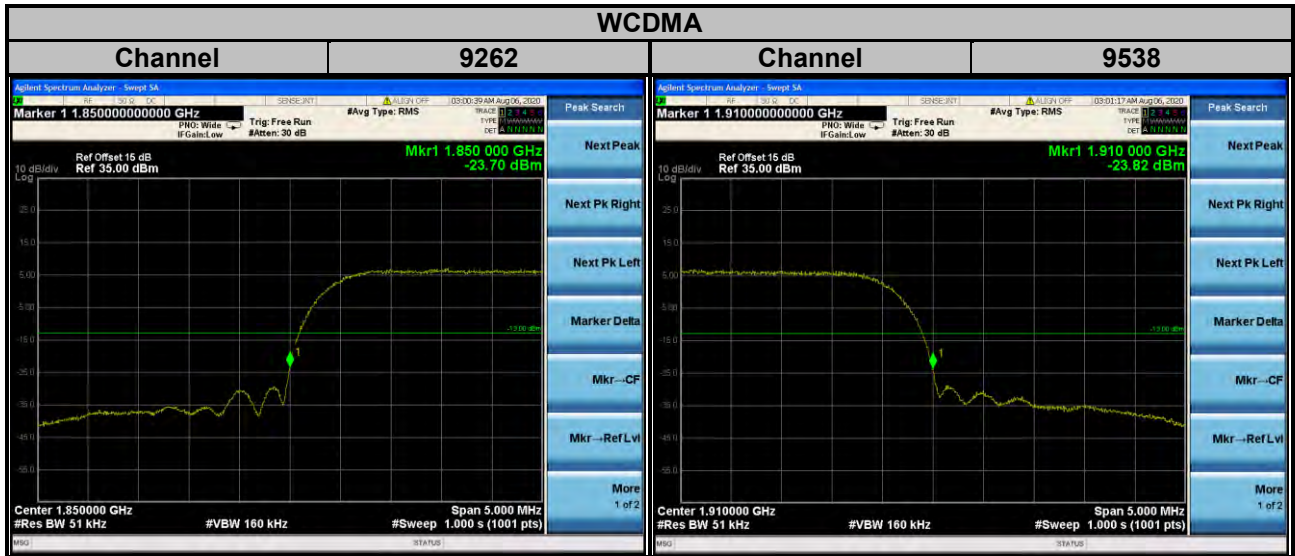
### 4.5.2 Test Setup



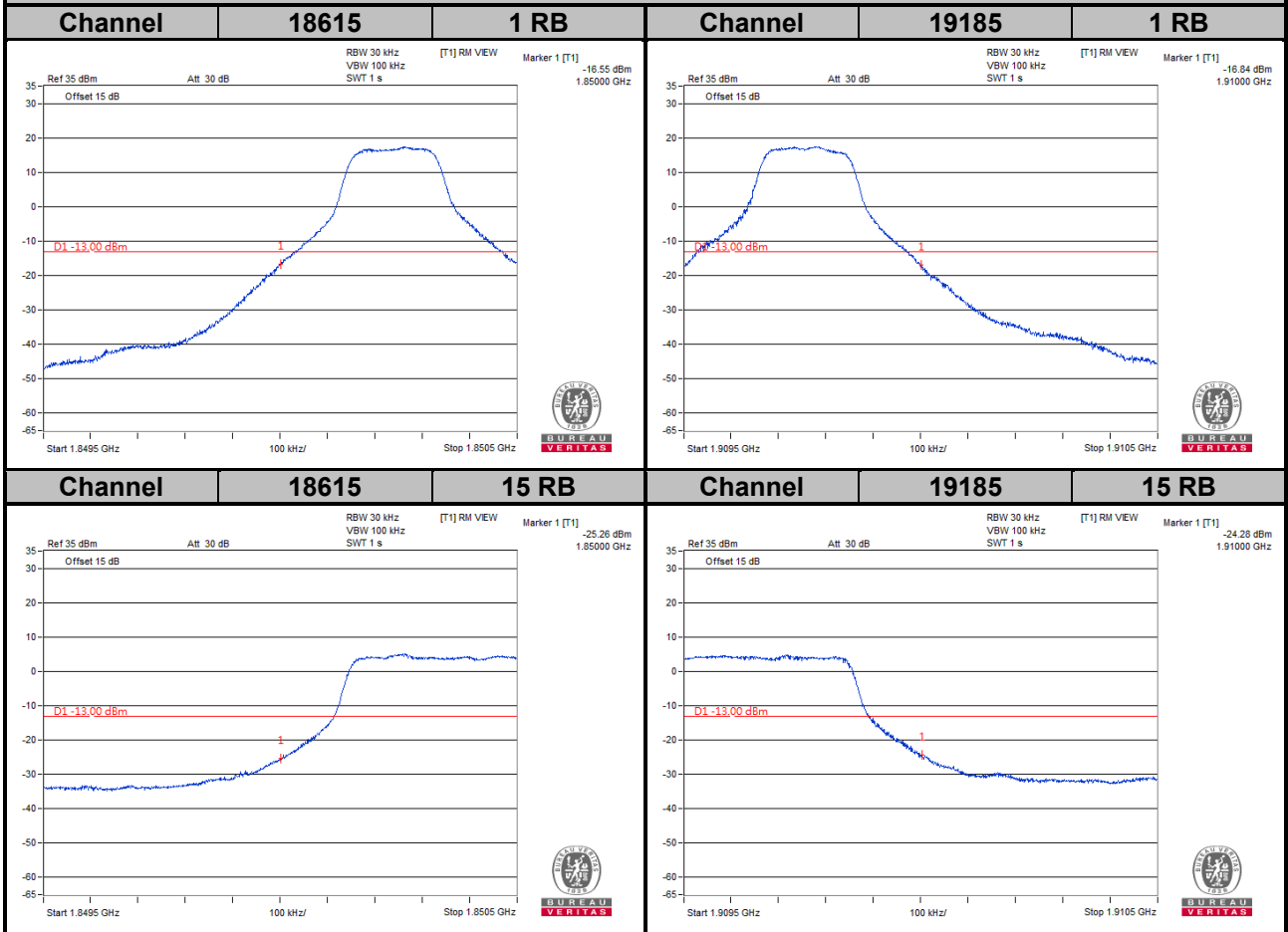
### 4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 51 kHz and VB of the spectrum is 160 kHz (WCDMA).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 15 kHz and VB of the spectrum is 51 kHz (LTE Bandwidth 1.4 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 30 kHz and VB of the spectrum is 100 kHz (LTE Bandwidth 3 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 51 kHz and VB of the spectrum is 160 kHz (LTE Bandwidth 5 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (LTE Bandwidth 10 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 150 kHz and VB of the spectrum is 470 kHz (LTE Bandwidth 15 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 200 kHz and VB of the spectrum is 1 MHz (LTE Bandwidth 20 MHz).
- Record the max trace plot into the test report.

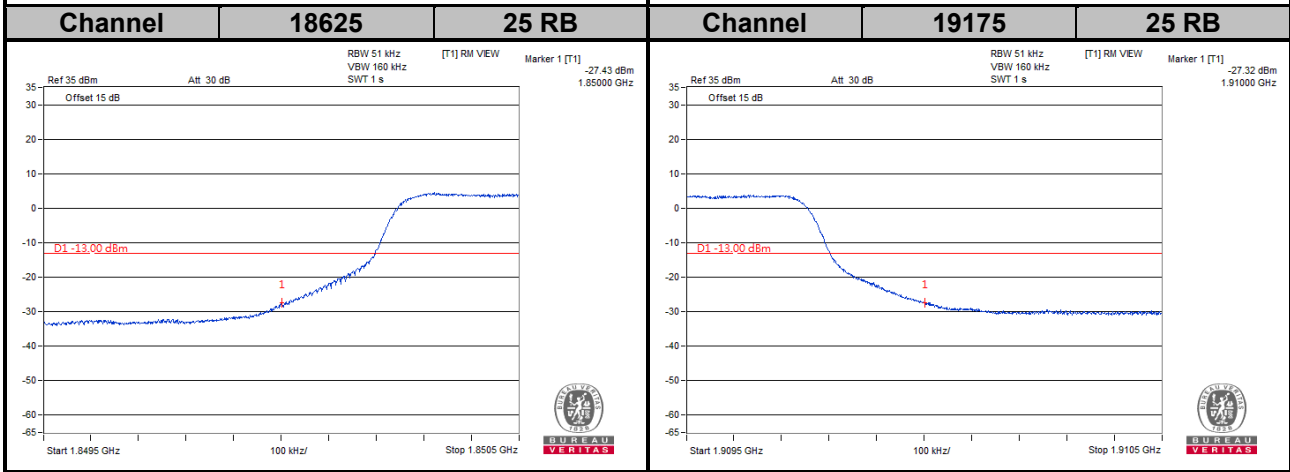
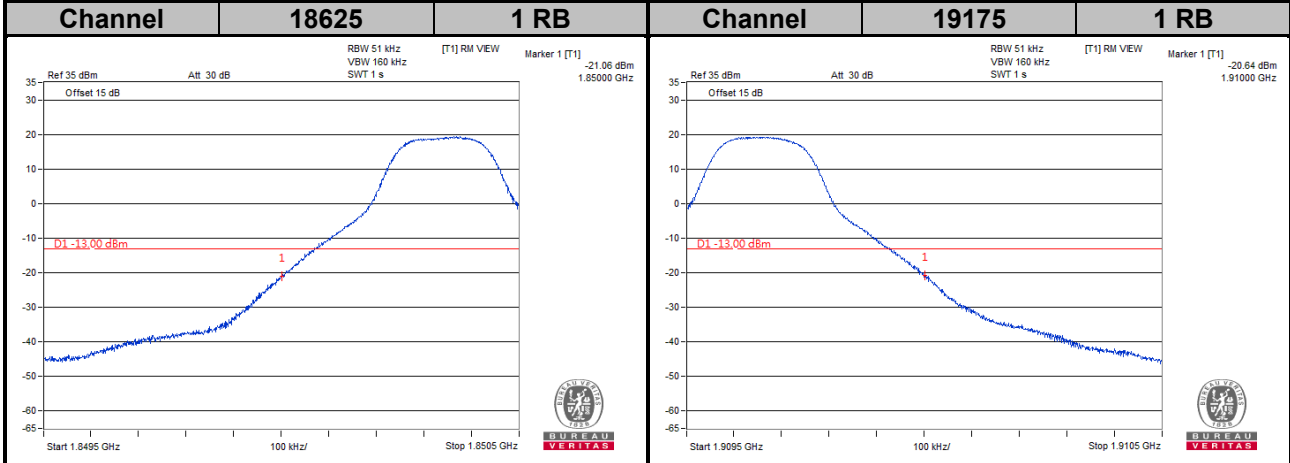
### 4.5.4 Test Results



**LTE Band 2**  
**Channel Bandwidth: 3 MHz**

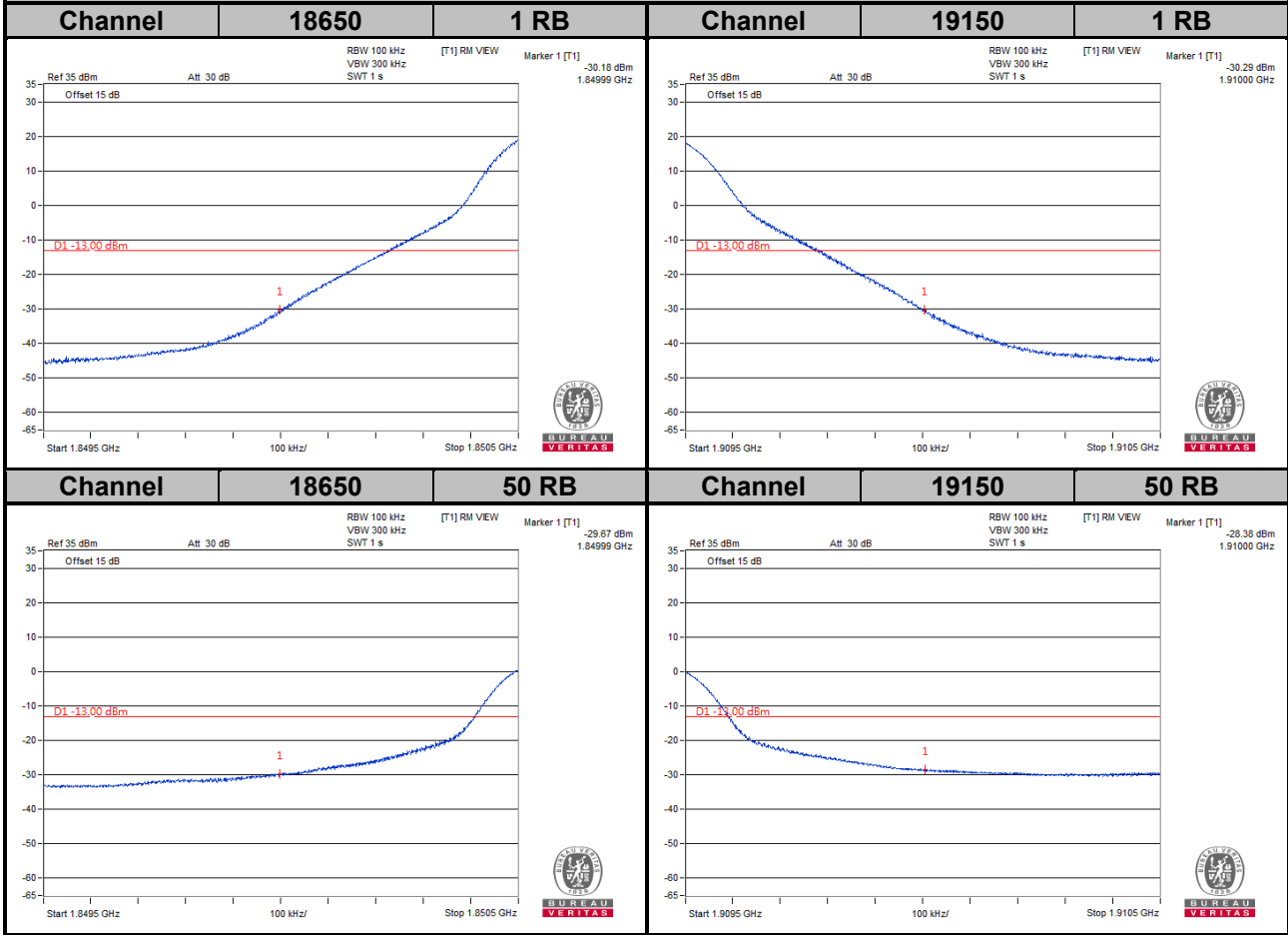


**LTE Band 2**  
**Channel Bandwidth: 5 MHz**



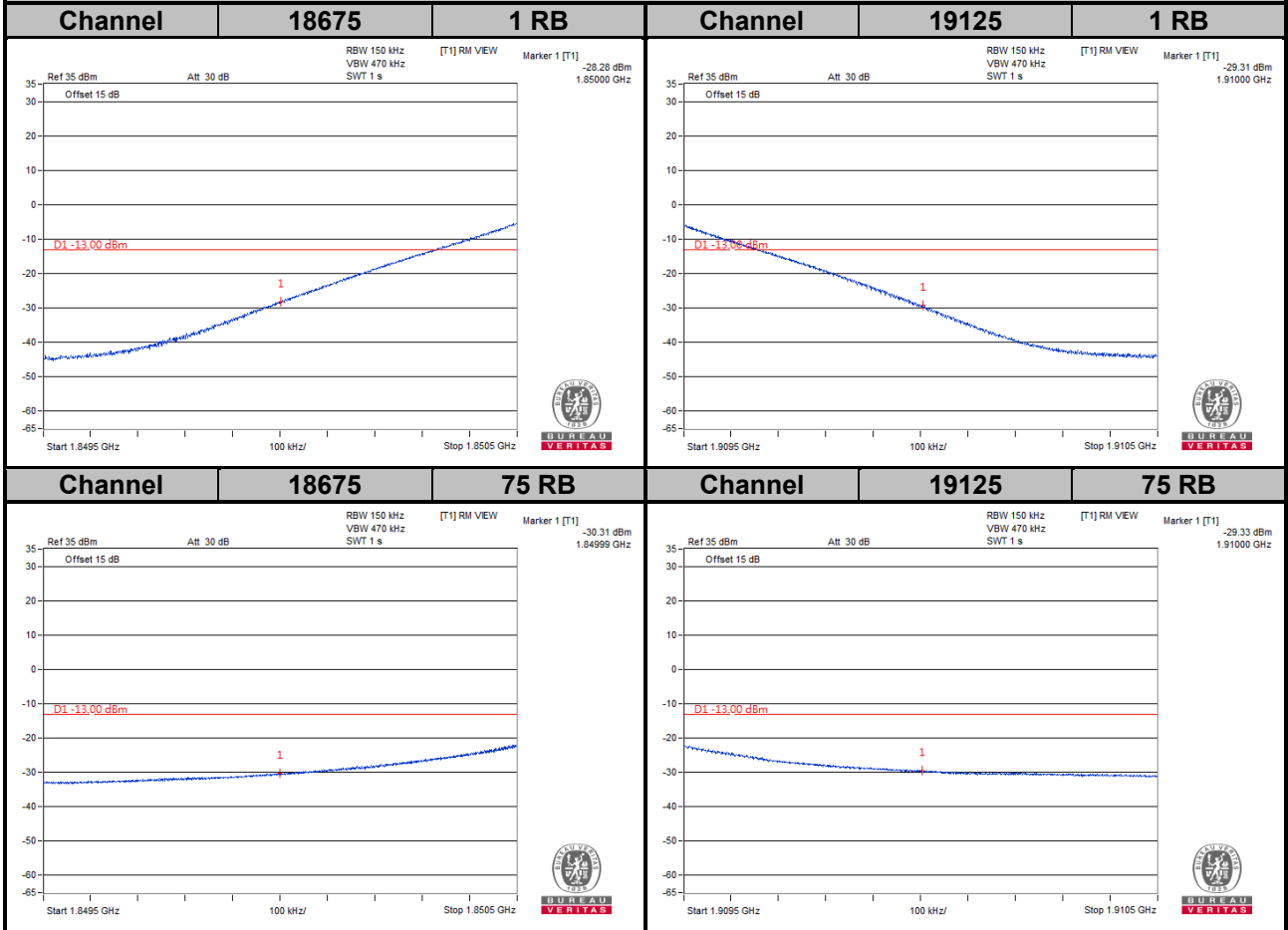
LTE Band 2

Channel Bandwidth: 10 MHz



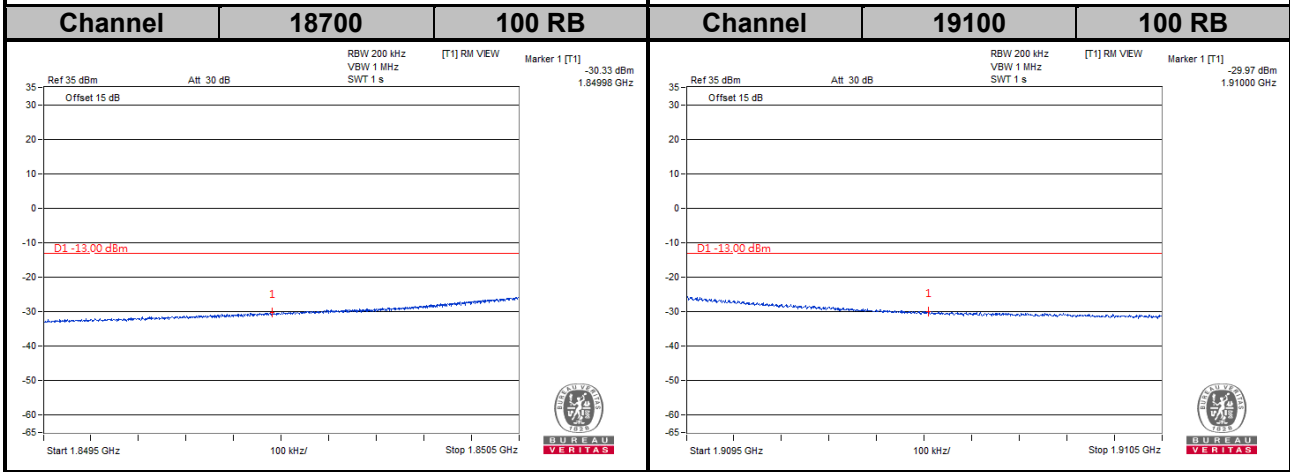
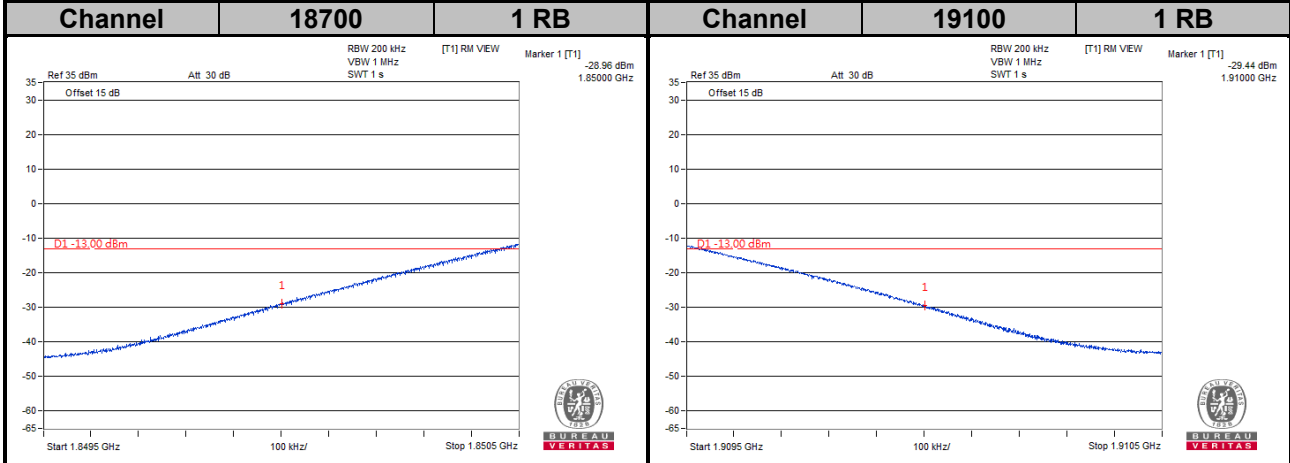
### LTE Band 2

#### Channel Bandwidth: 15 MHz

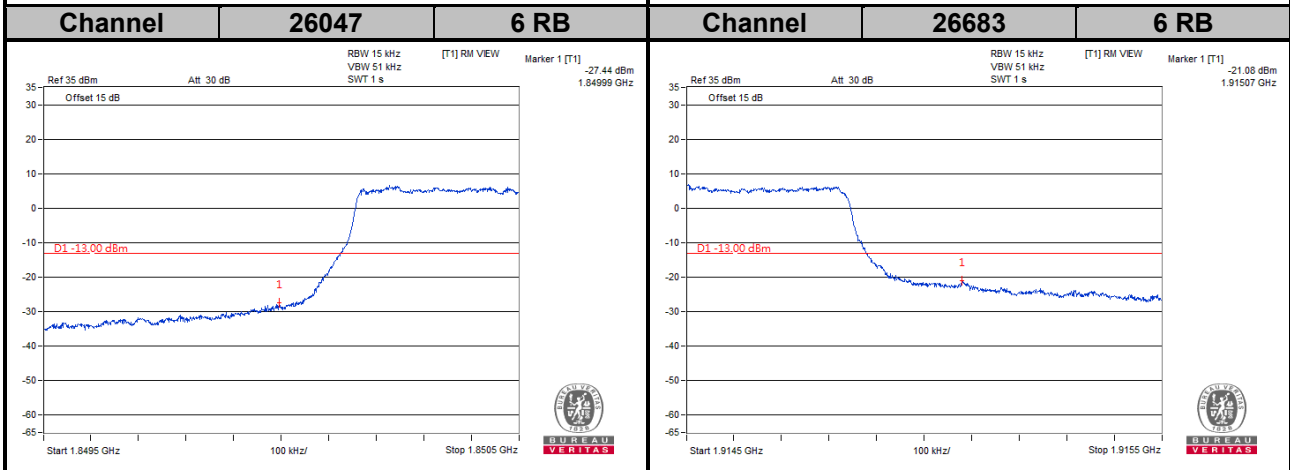
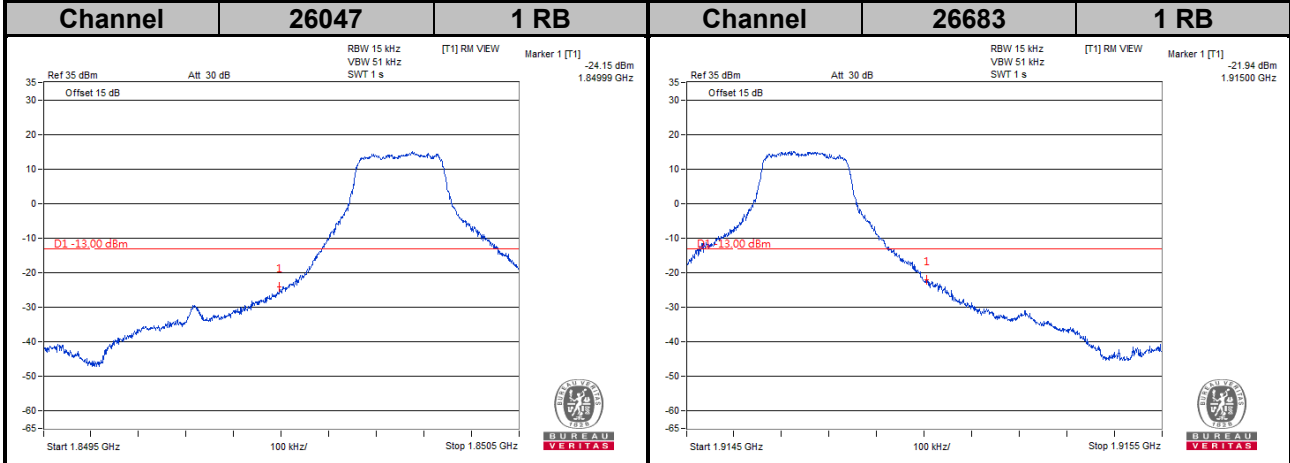




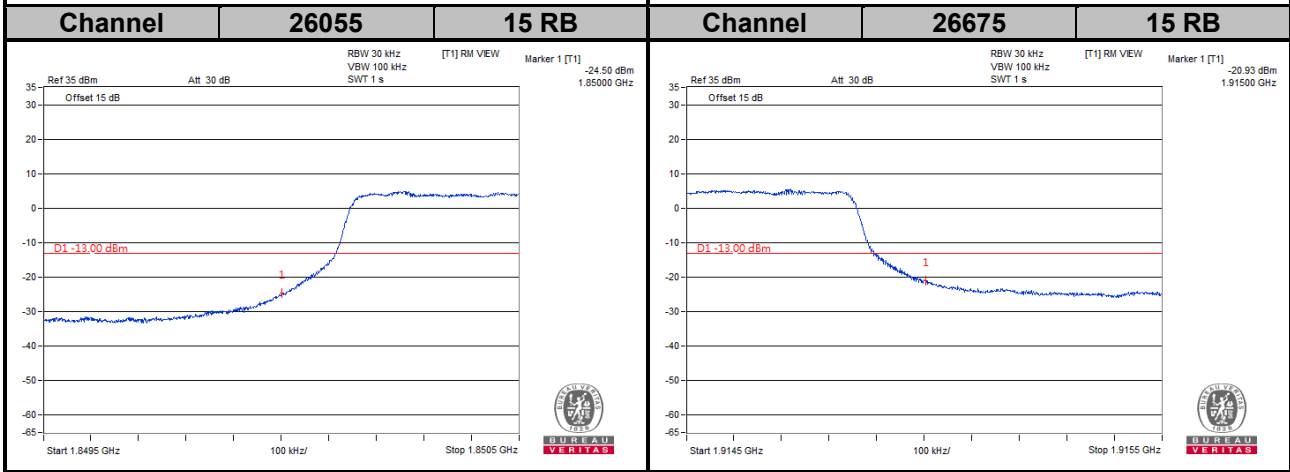
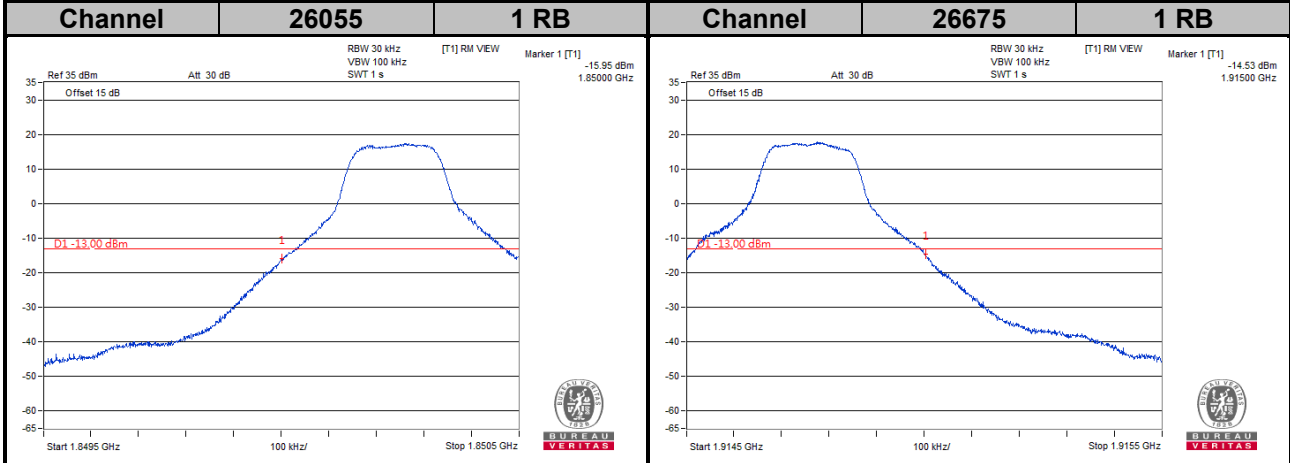
**LTE Band 2**  
**Channel Bandwidth: 20 MHz**



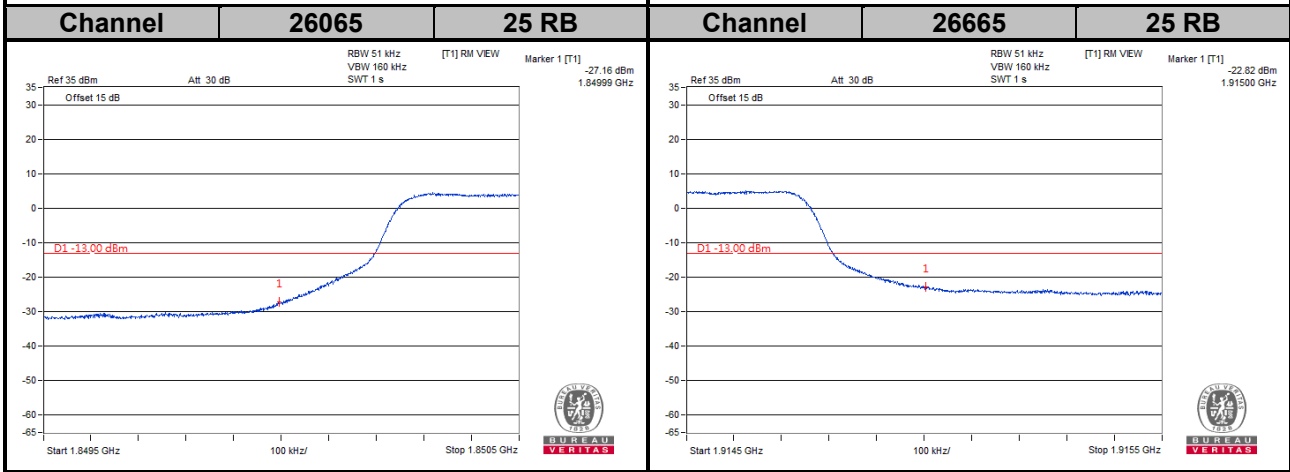
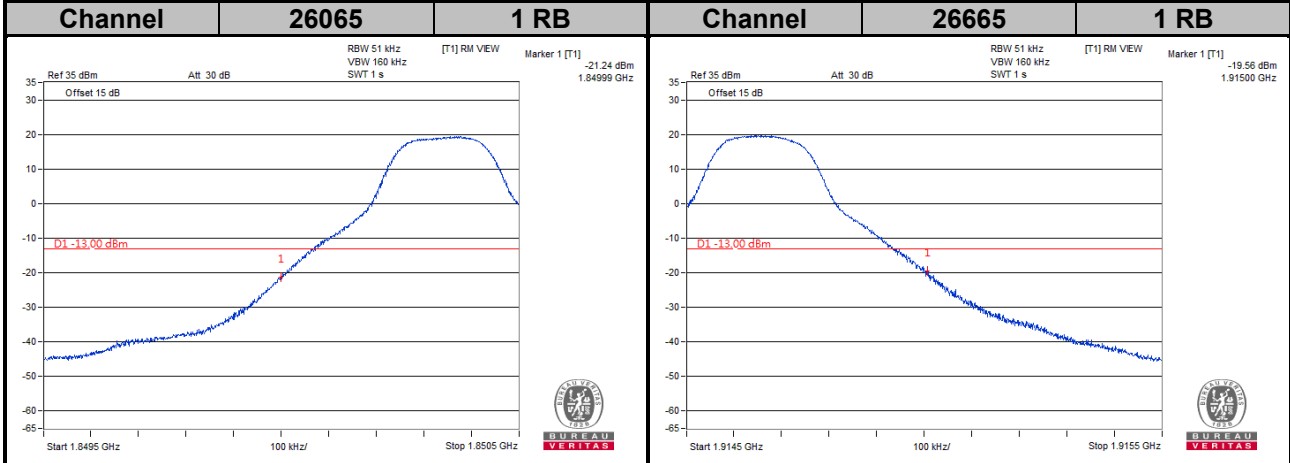
**LTE Band 25**  
**Channel Bandwidth: 1.4 MHz**



**LTE Band 25**  
**Channel Bandwidth: 3 MHz**

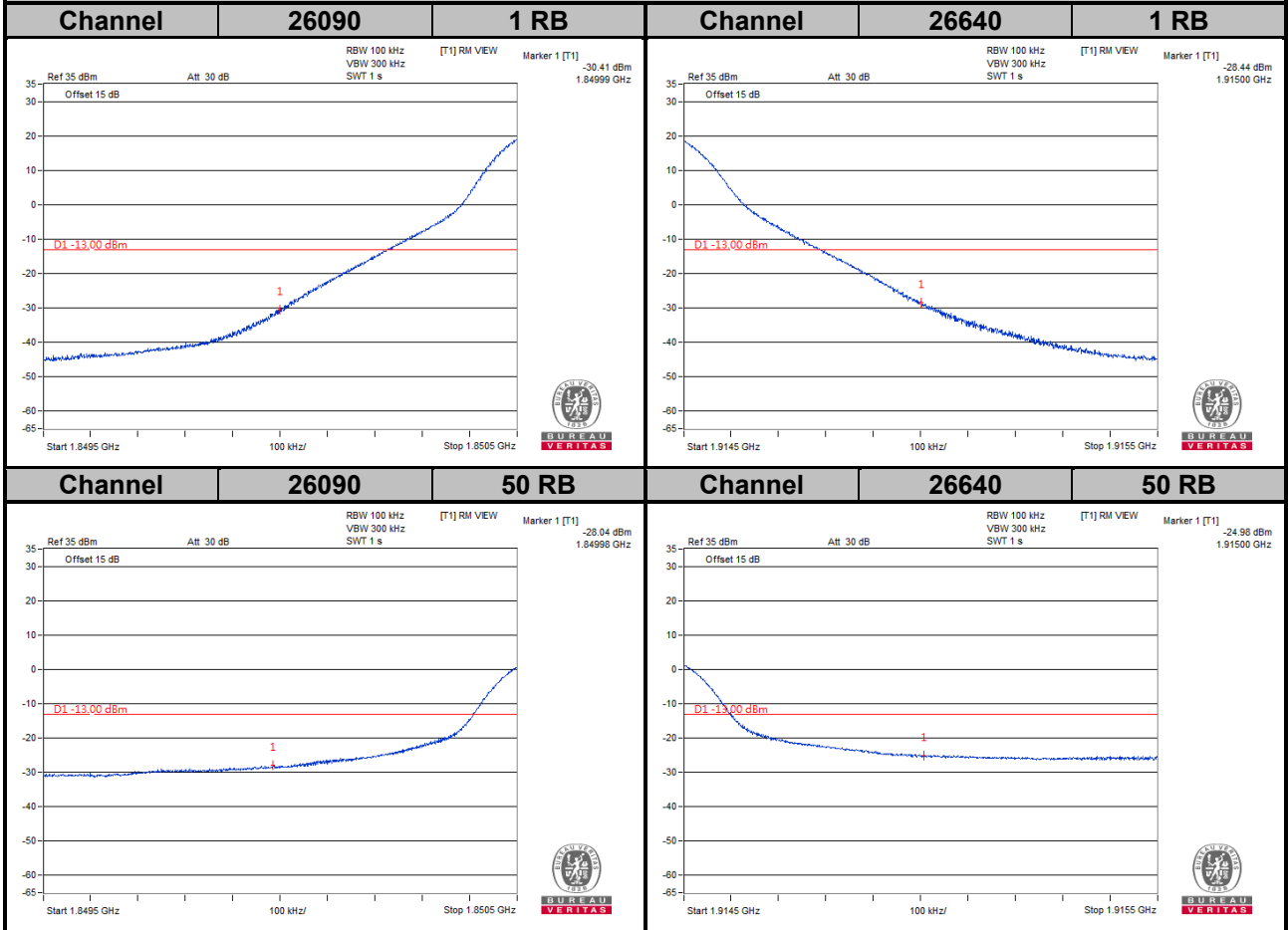


**LTE Band 25**  
**Channel Bandwidth: 5 MHz**



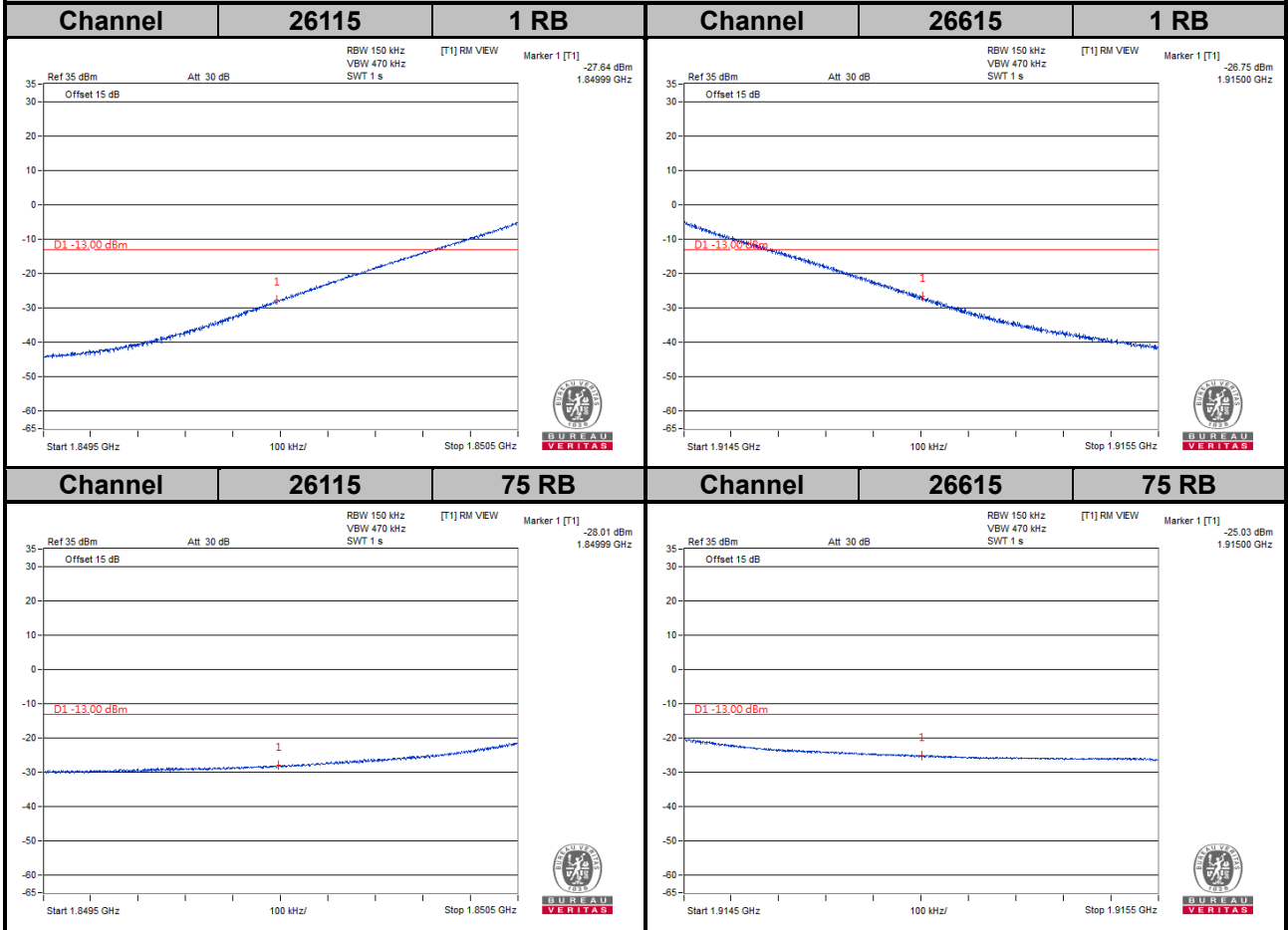
LTE Band 25

Channel Bandwidth: 10 MHz



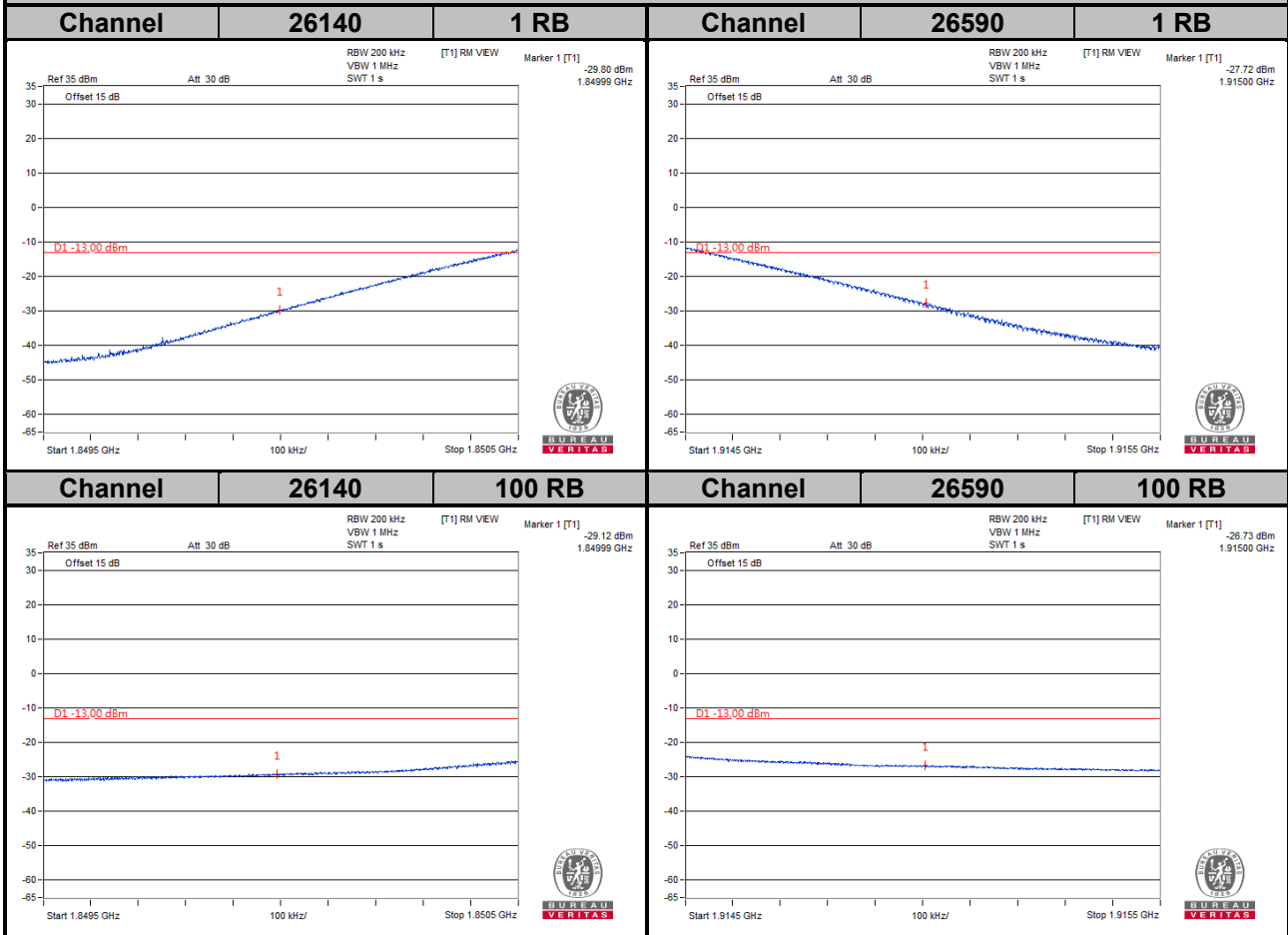
### LTE Band 25

#### Channel Bandwidth: 15 MHz



### LTE Band 25

#### Channel Bandwidth: 20 MHz

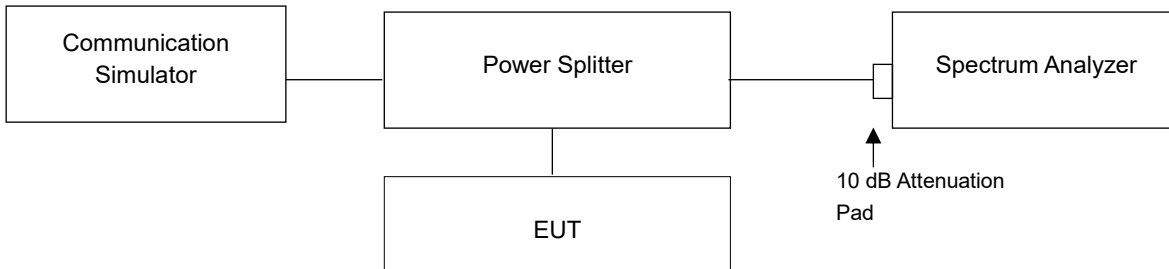


## 4.6 Peak to Average Ratio

### 4.6.1 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.

### 4.6.2 Test Setup

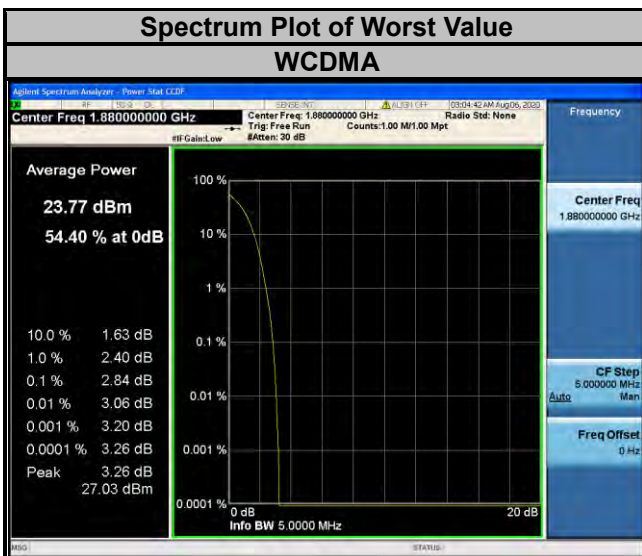


### 4.6.3 Test Procedures

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 %.

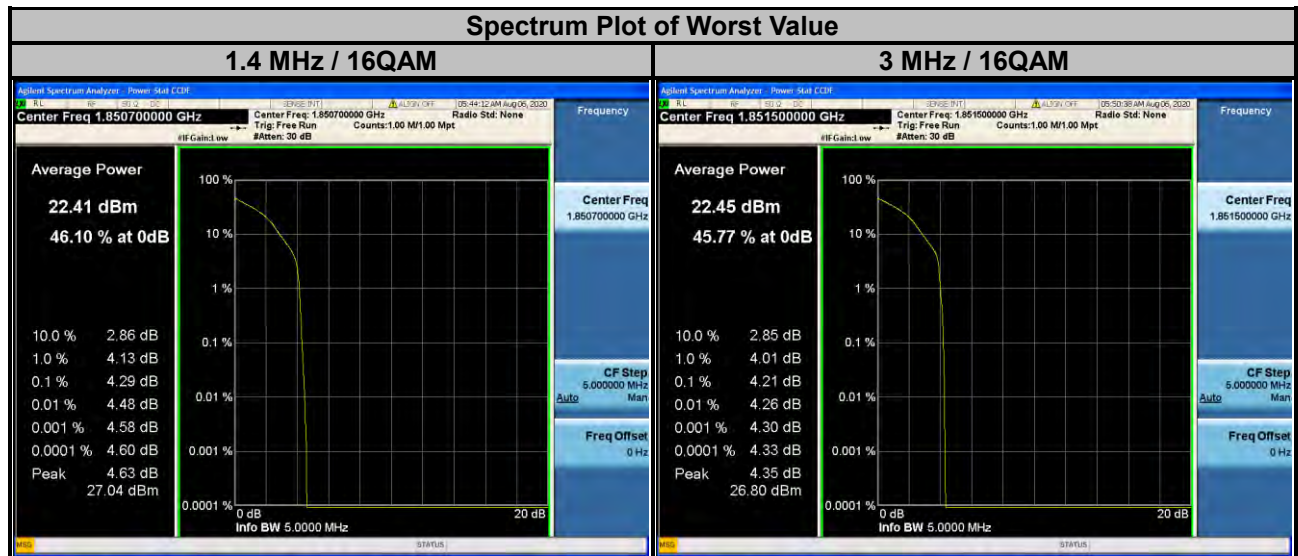
### 4.6.4 Test Results

Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		WCDMA
9262	1852.4	2.83
9400	1880.0	2.84
9538	1907.6	2.81

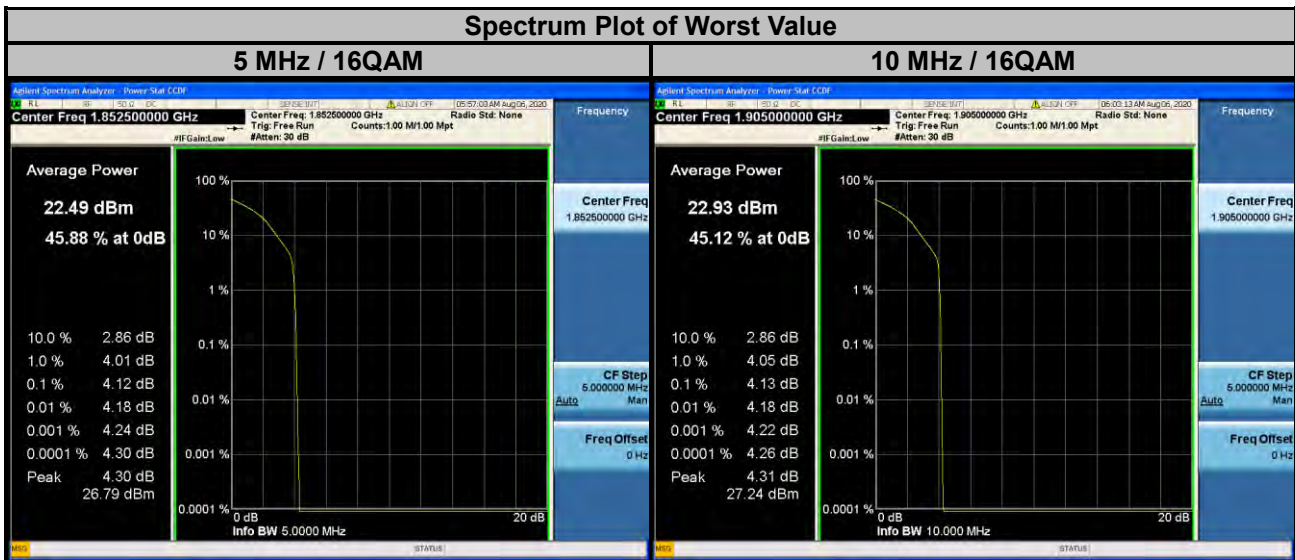




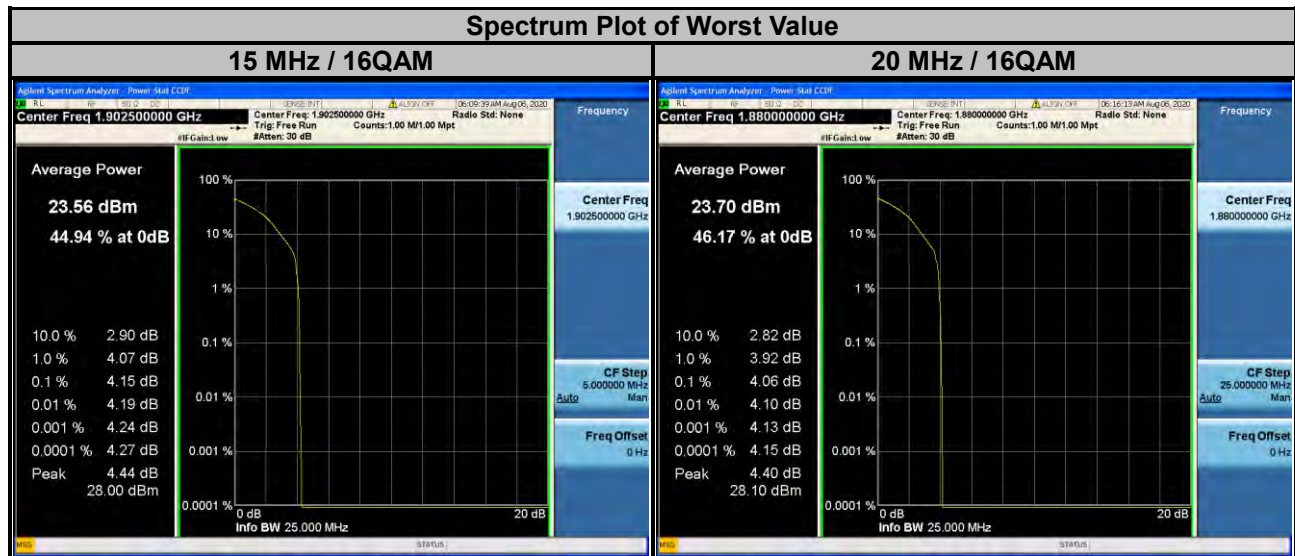
LTE Band 2							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	3.60	4.29	18615	1851.5	3.45	4.21
18900	1880.0	3.59	4.28	18900	1880.0	3.45	4.09
19193	1909.3	3.51	4.27	19185	1908.5	3.32	4.05



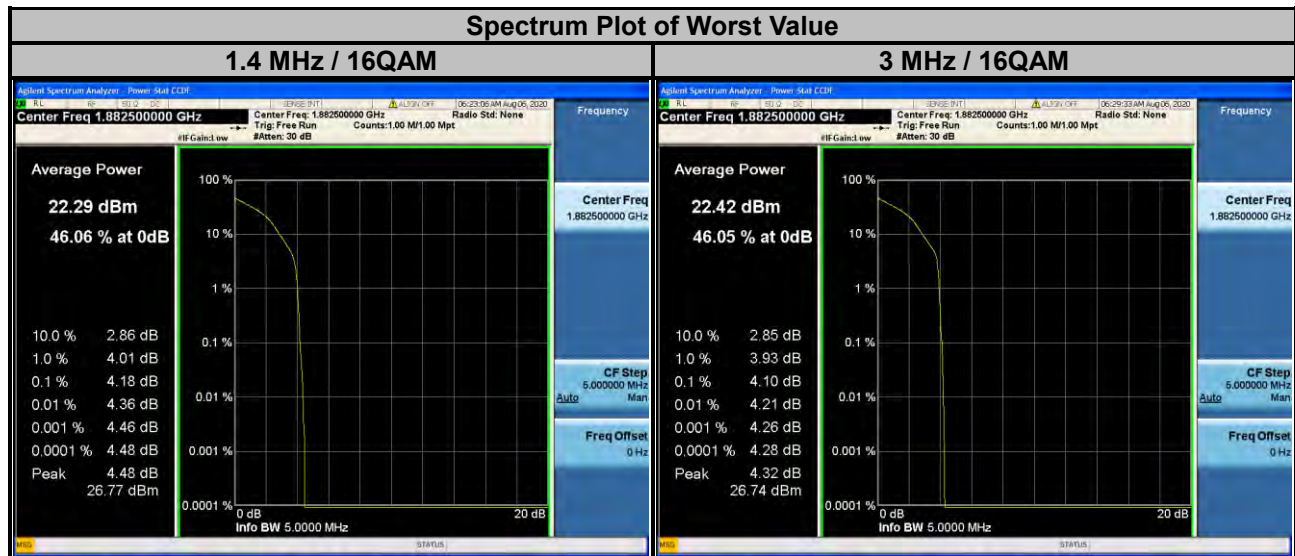
LTE Band 2							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	3.39	4.12	18650	1855.0	3.34	4.07
18900	1880.0	3.33	4.10	18900	1880.0	3.39	4.06
19175	1907.5	3.22	4.00	19150	1905.0	3.32	4.13



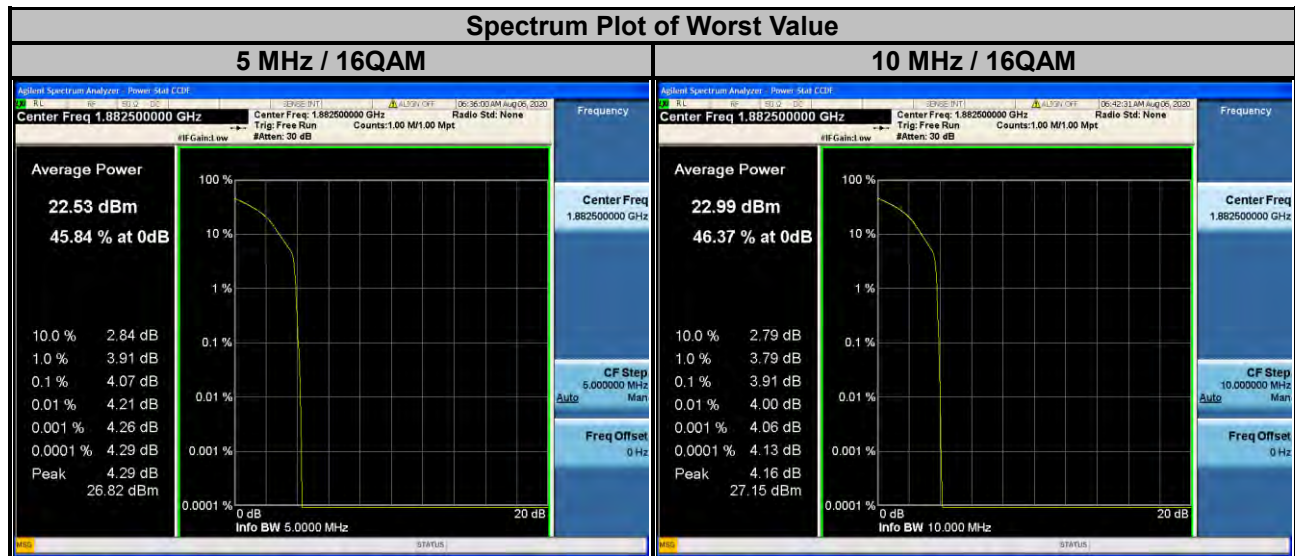
LTE Band 2							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	3.39	3.94	18700	1860.0	3.25	3.92
18900	1880.0	3.53	4.08	18900	1880.0	3.27	4.06
19125	1902.5	3.46	4.15	19100	1900.0	3.30	4.04



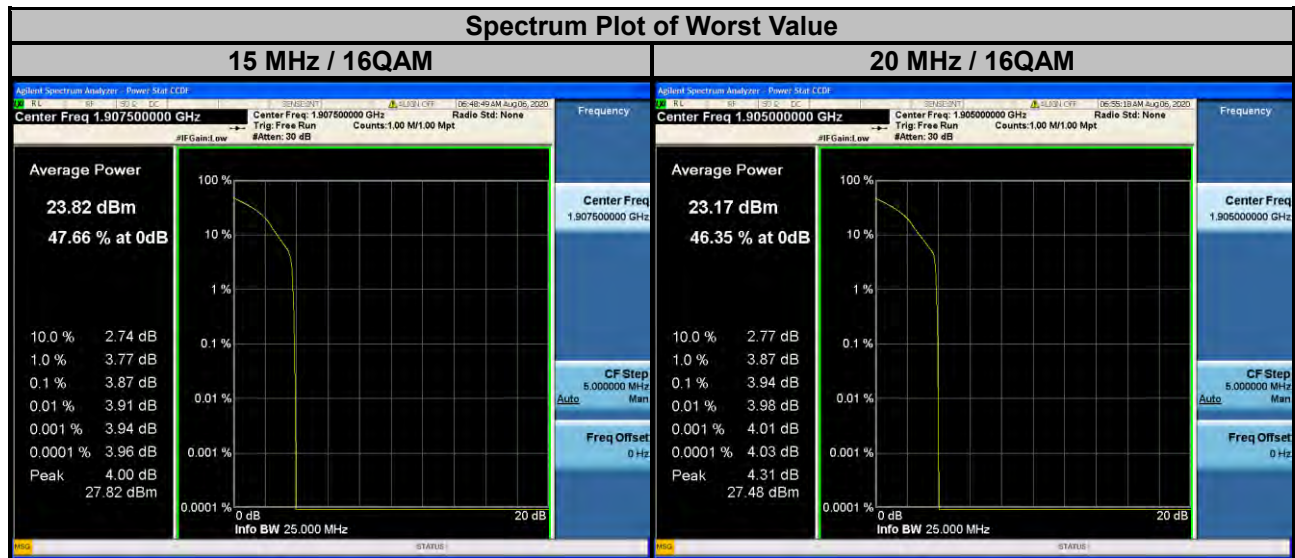
LTE Band 25							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	3.53	4.16	26055	1851.5	3.27	4.01
26365	1882.5	3.64	4.18	26365	1882.5	3.51	4.10
26683	1914.3	3.39	4.11	26675	1913.5	3.28	3.99



LTE Band 25							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	3.34	4.00	26090	1855.0	3.15	3.90
26365	1882.5	3.22	4.07	26365	1882.5	3.19	3.91
26665	1912.5	3.27	4.00	26640	1910.0	3.05	3.79



LTE Band 25							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	3.20	3.84	26140	1860.0	3.21	3.92
26365	1882.5	3.19	3.86	26365	1882.5	3.20	3.94
26615	1907.5	3.13	3.87	26590	1905.0	3.25	3.94

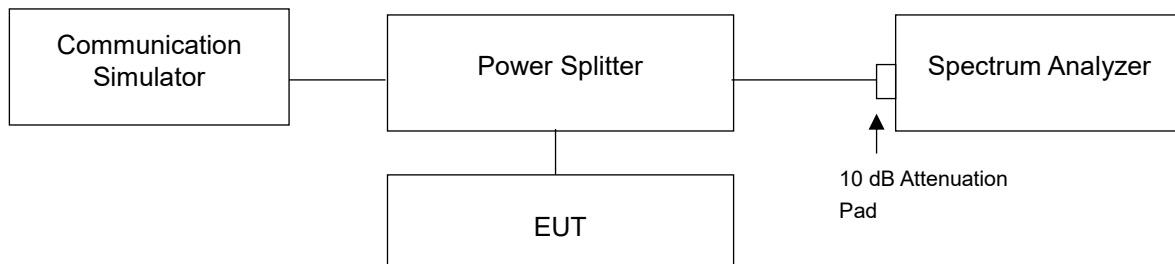


## 4.7 Conducted Spurious Emissions

### 4.7.1 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 dBm.

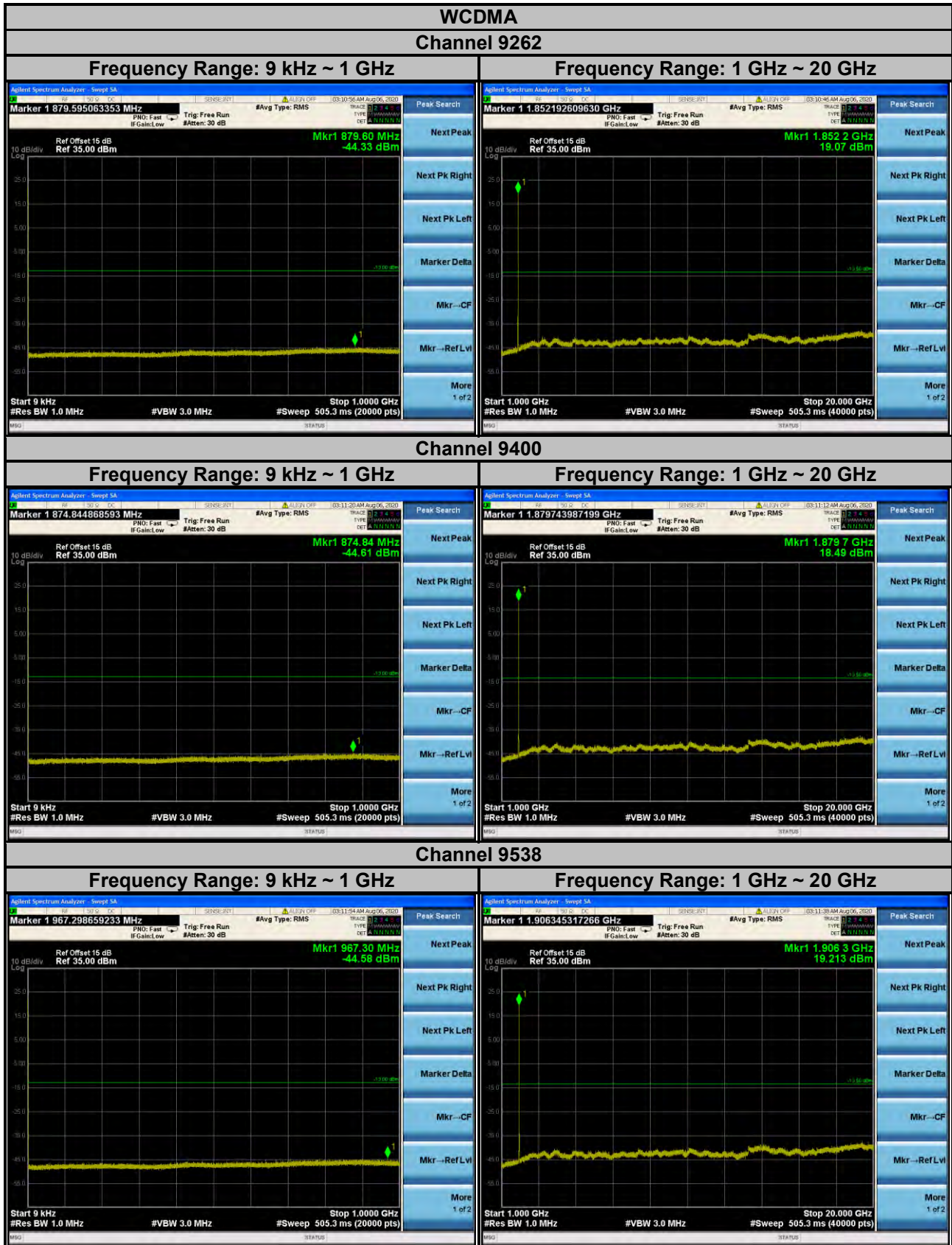
### 4.7.2 Test Setup



### 4.7.3 Test Procedure

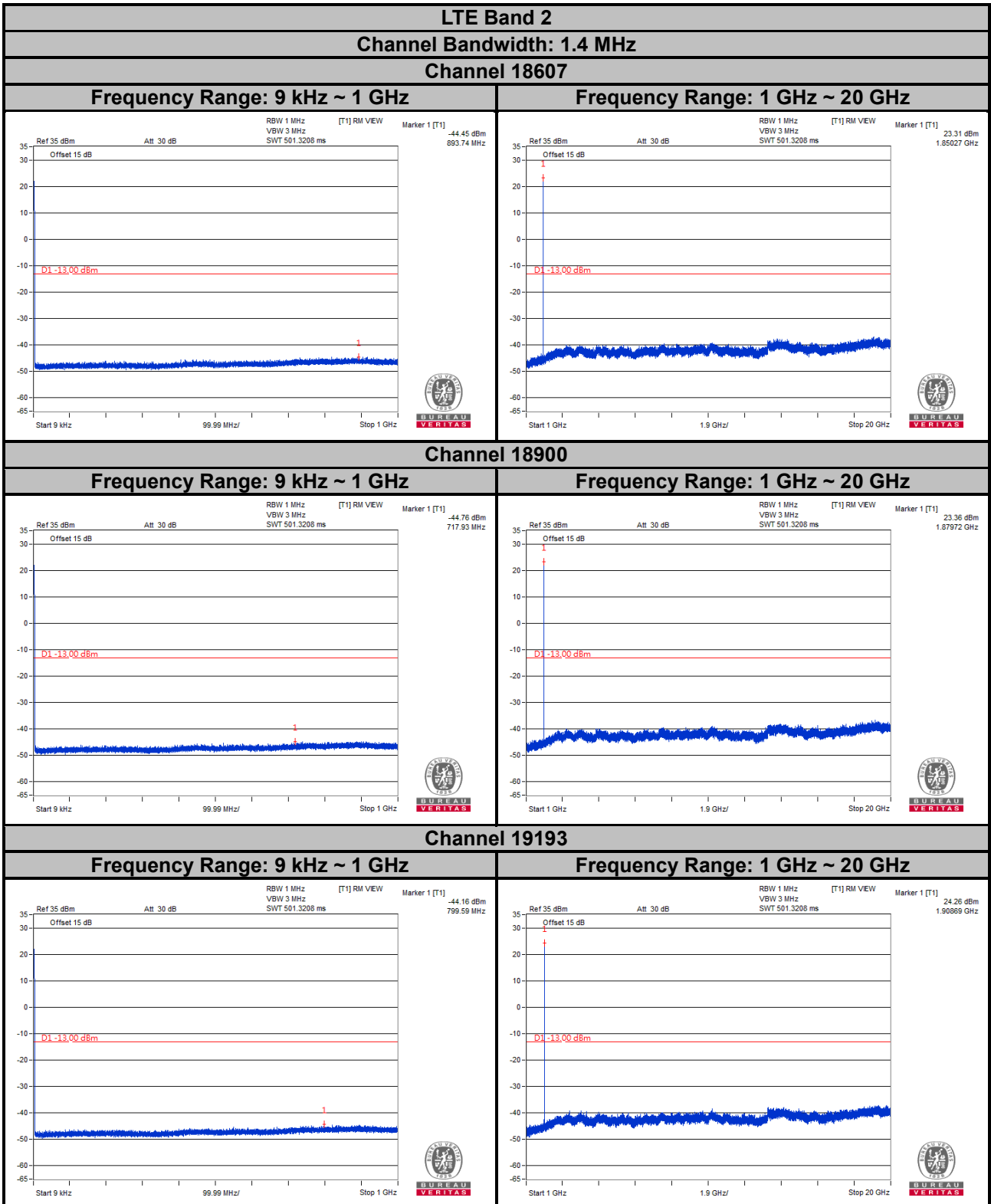
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 1 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.
- Measuring frequency range is from 1 GHz to 20 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.

#### 4.7.4 Test Results



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

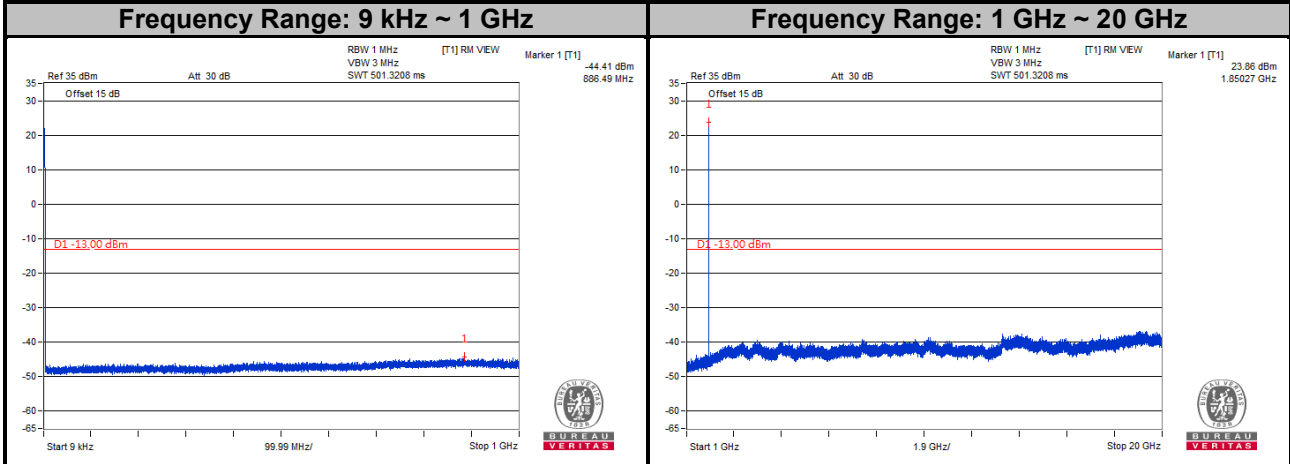




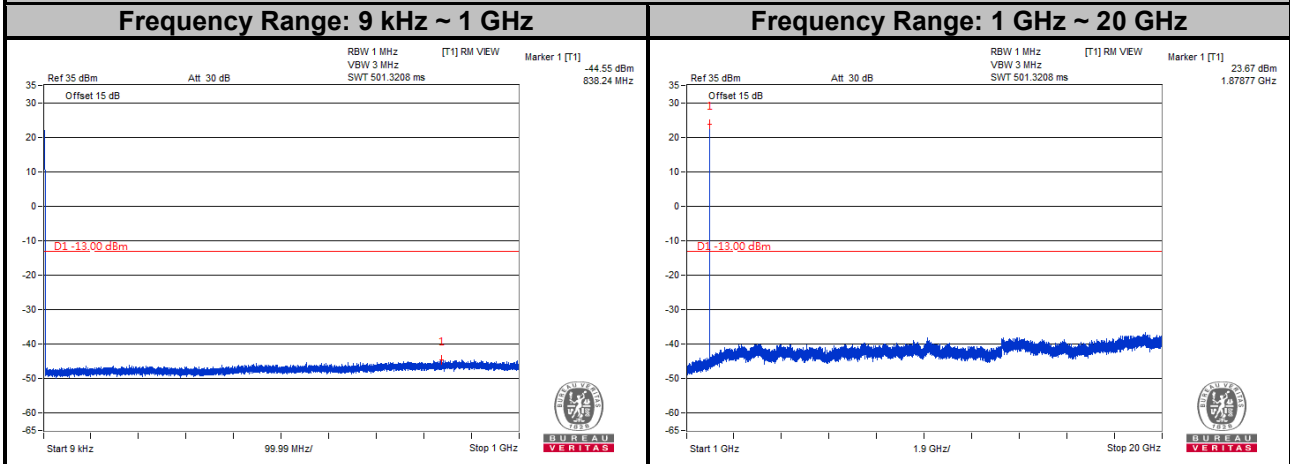
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 2**  
**Channel Bandwidth: 3 MHz**

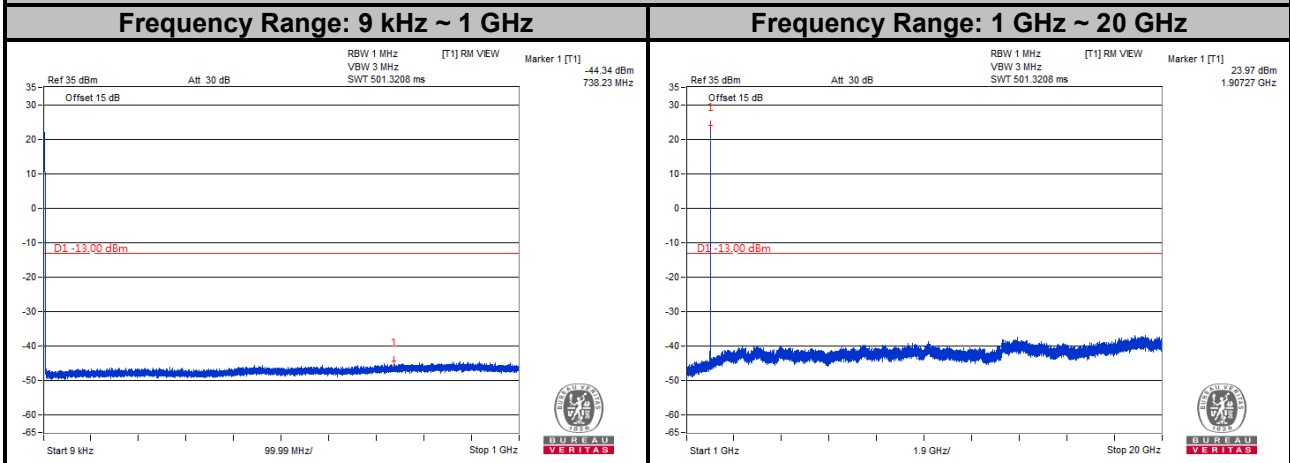
**Channel 18615**



**Channel 18900**



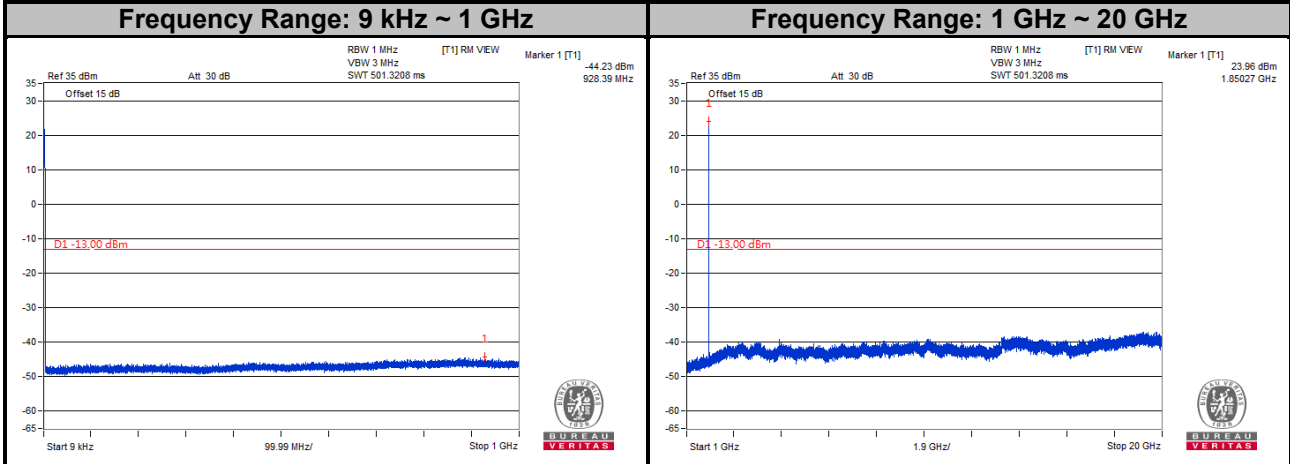
**Channel 19185**



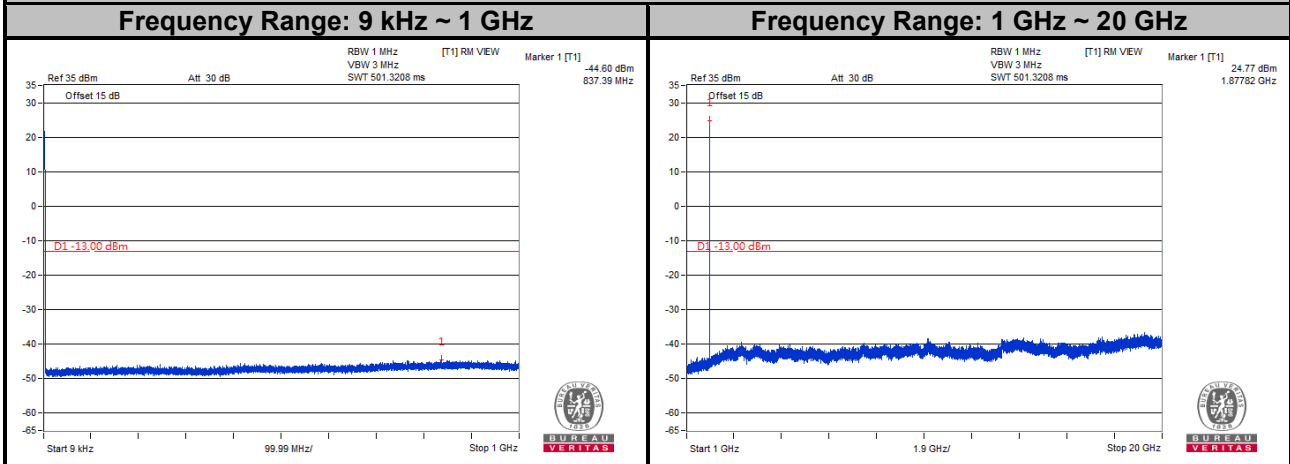
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 2**  
**Channel Bandwidth: 5 MHz**

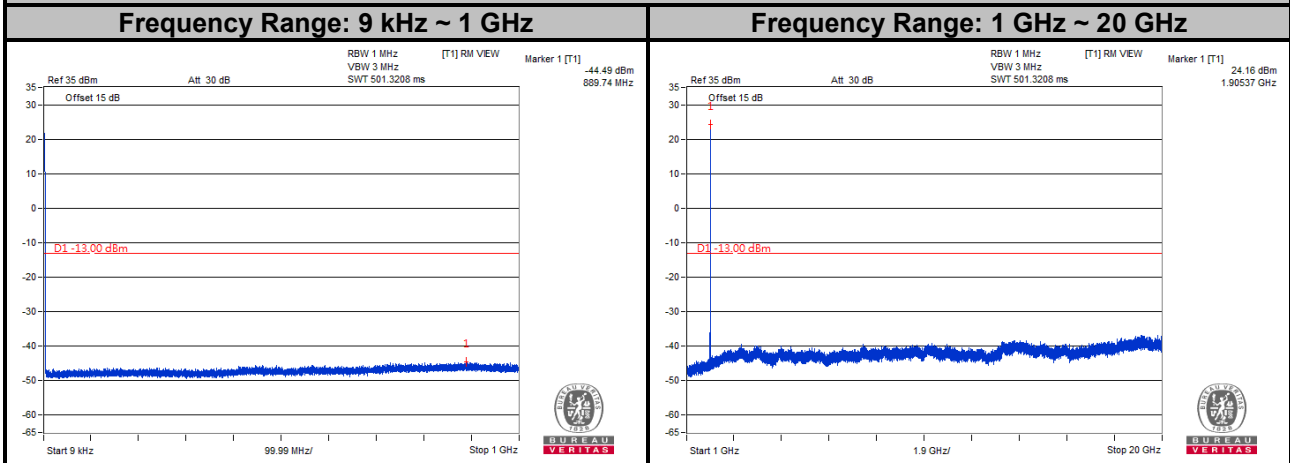
**Channel 18625**



**Channel 18900**

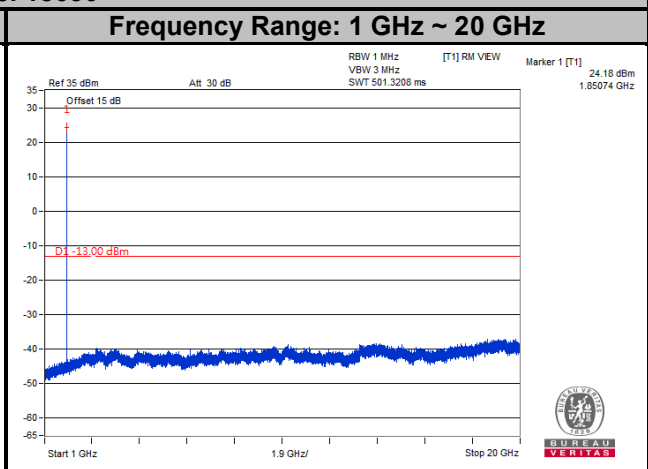
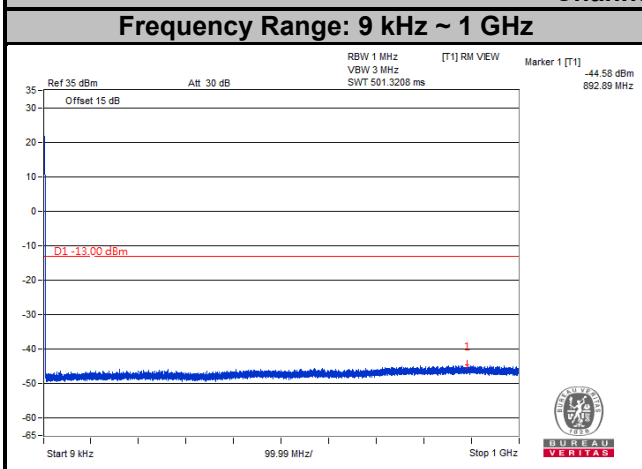


**Channel 19175**

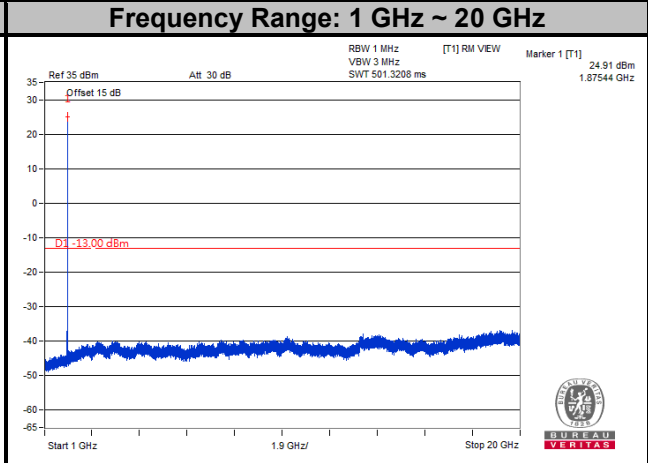
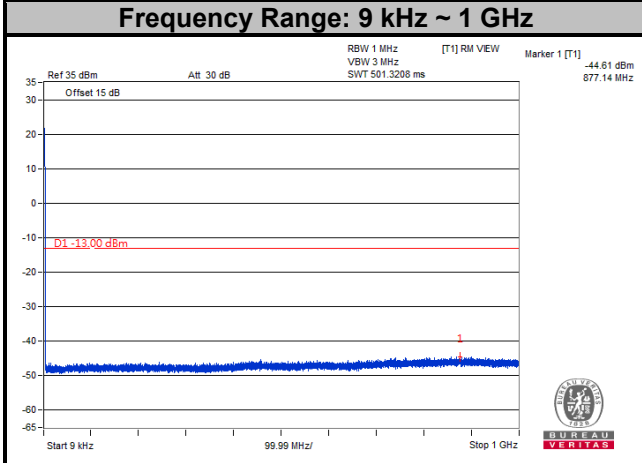


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

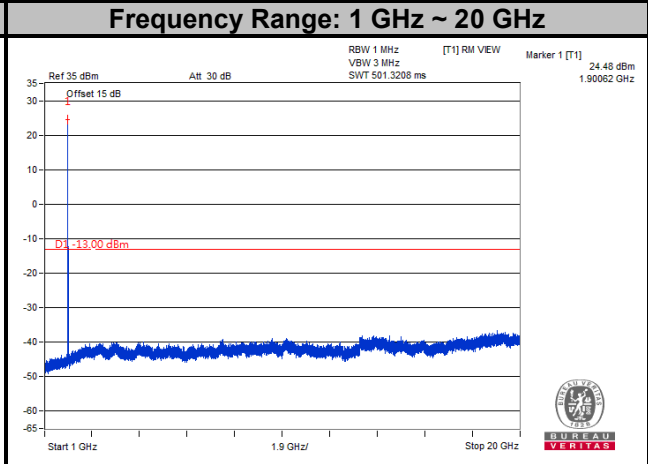
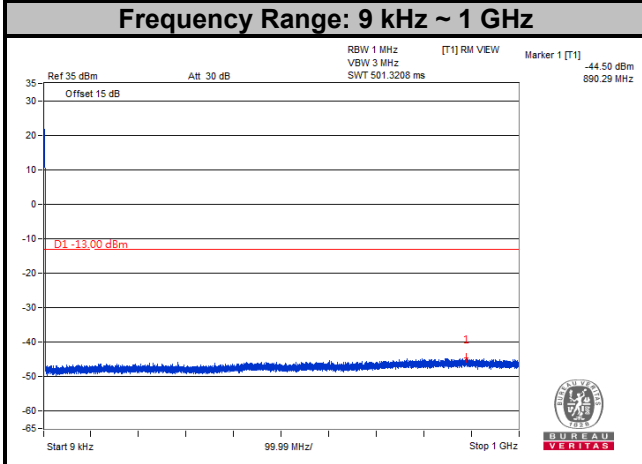
**LTE Band 2**  
**Channel Bandwidth: 10 MHz**  
**Channel 18650**



**Channel 18900**

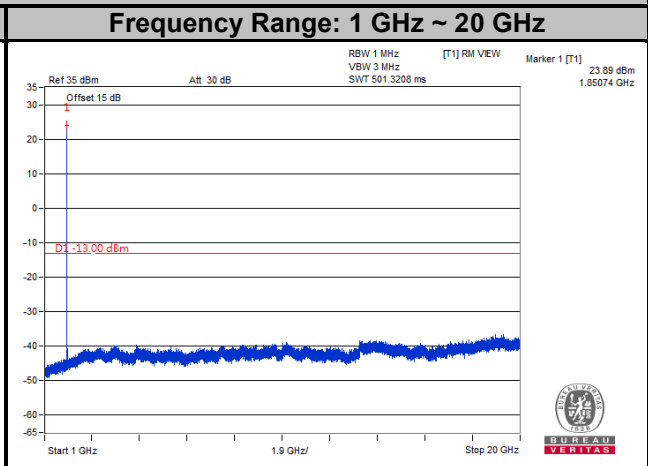
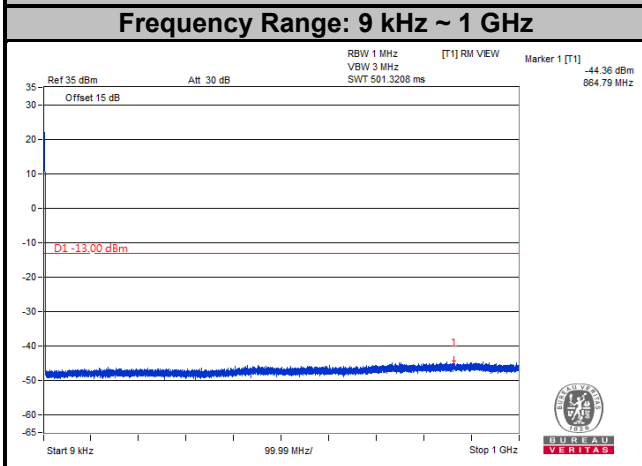


**Channel 19150**

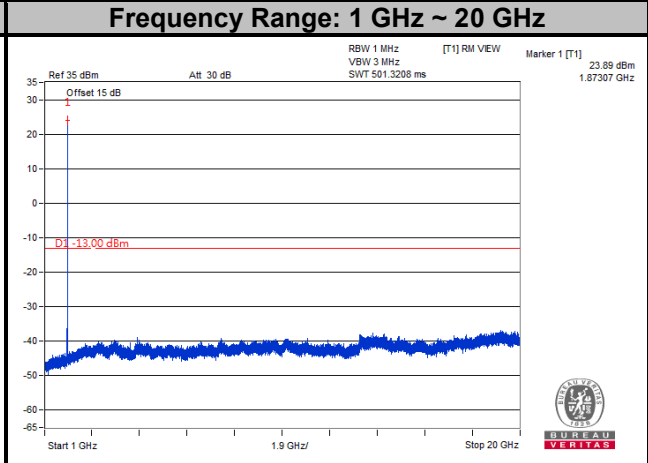
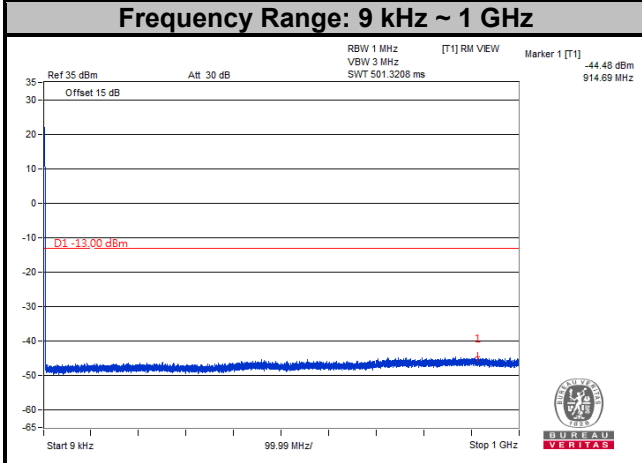


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

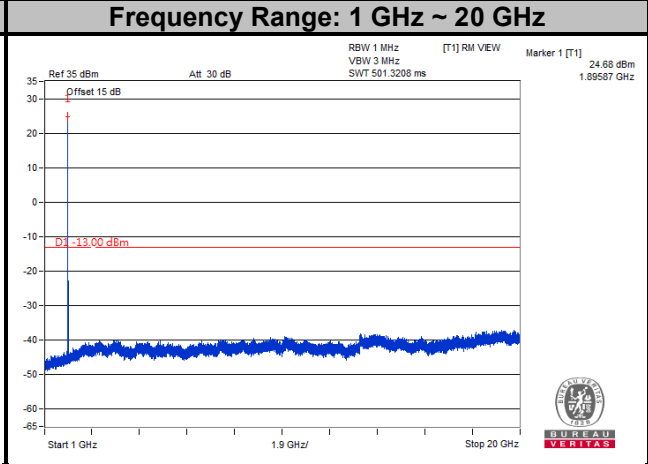
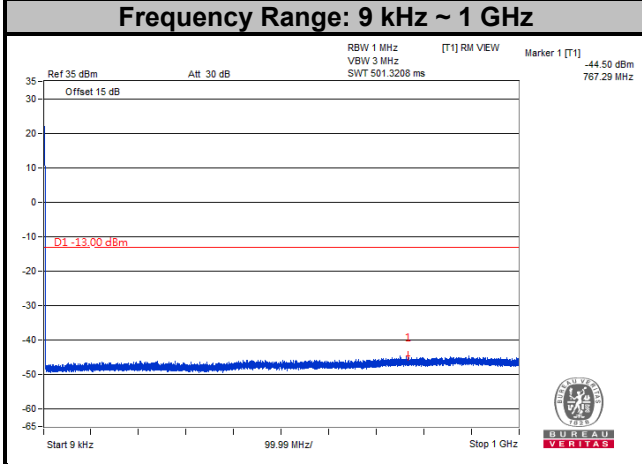
**LTE Band 2**  
**Channel Bandwidth: 15 MHz**  
**Channel 18675**



**Channel 18900**

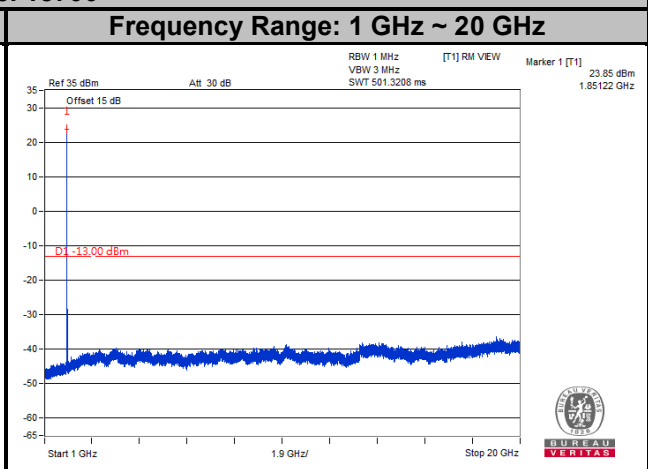
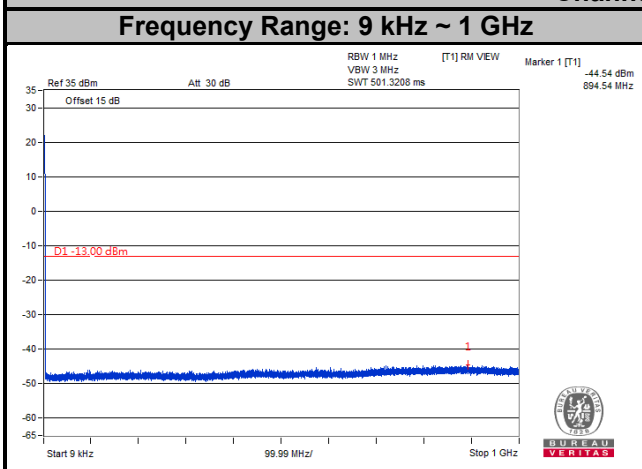


**Channel 19125**

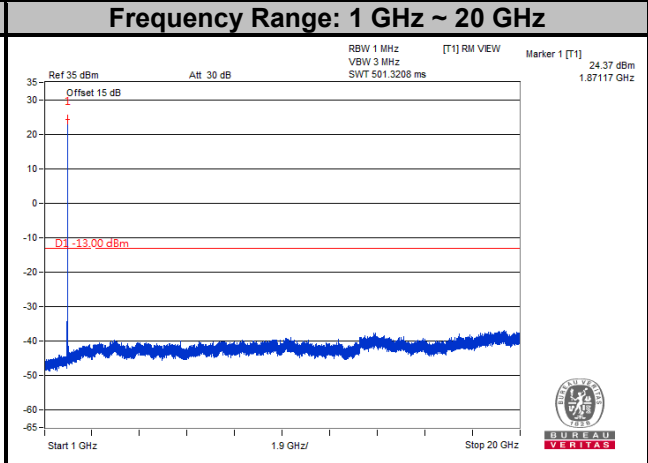
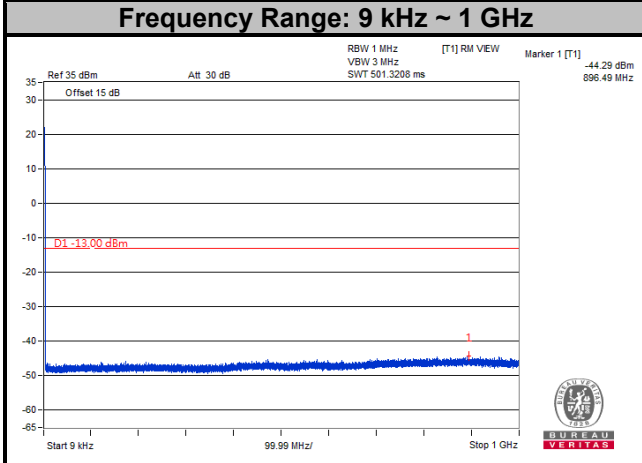


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

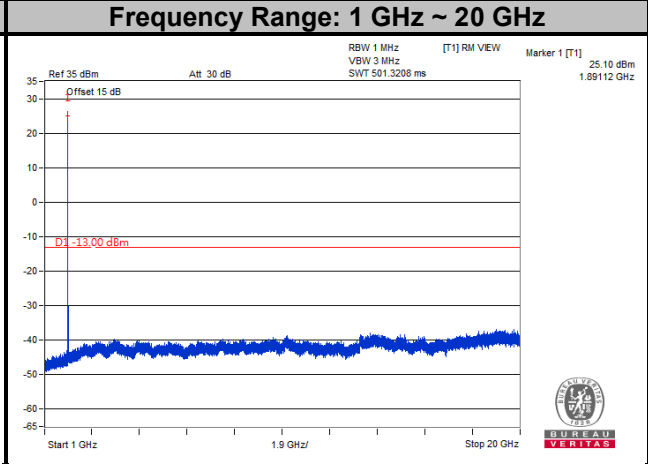
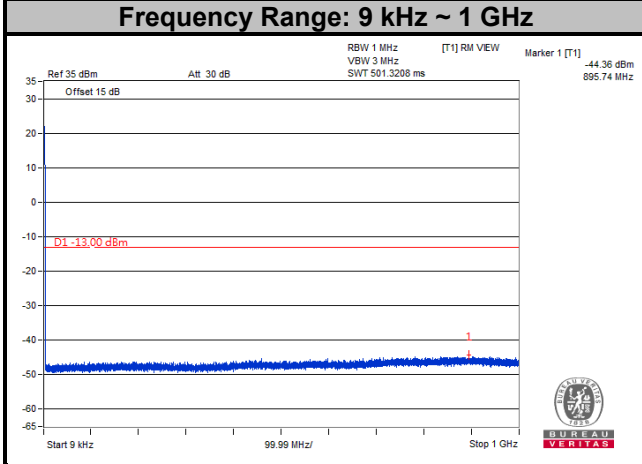
**LTE Band 2**  
**Channel Bandwidth: 20 MHz**  
**Channel 18700**



**Channel 18900**



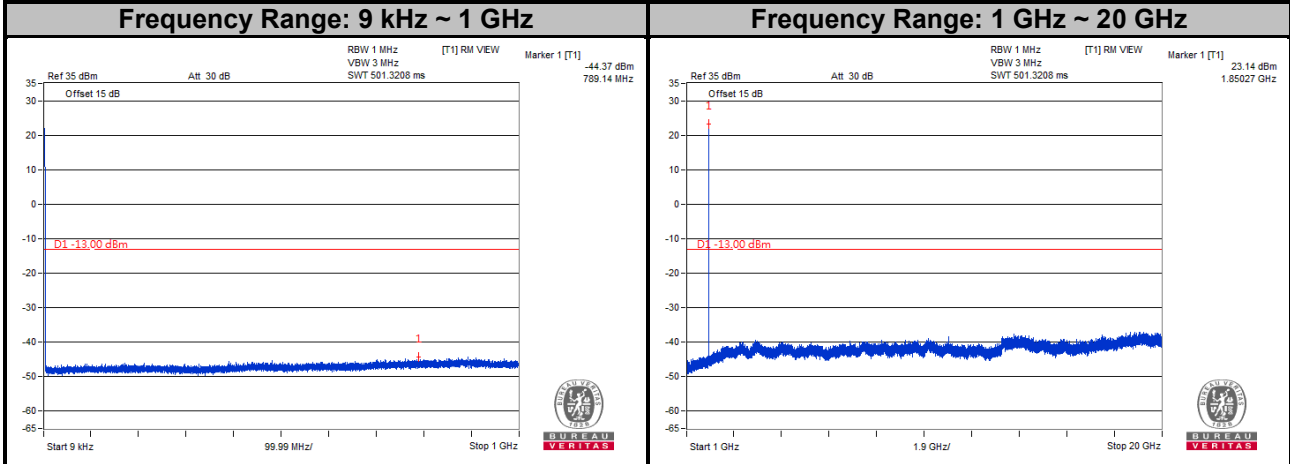
**Channel 19100**



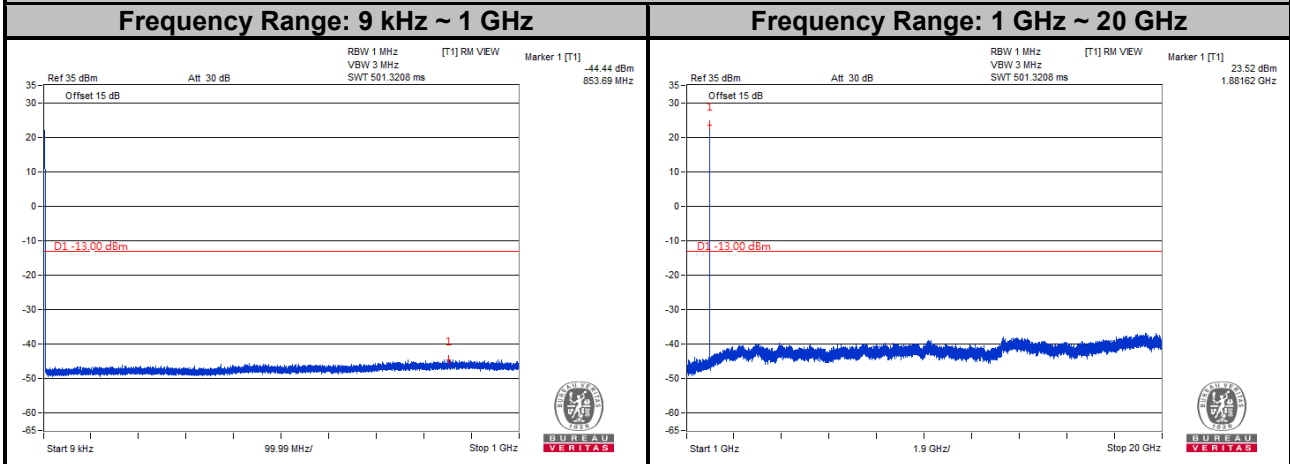
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 25**  
**Channel Bandwidth: 1.4 MHz**

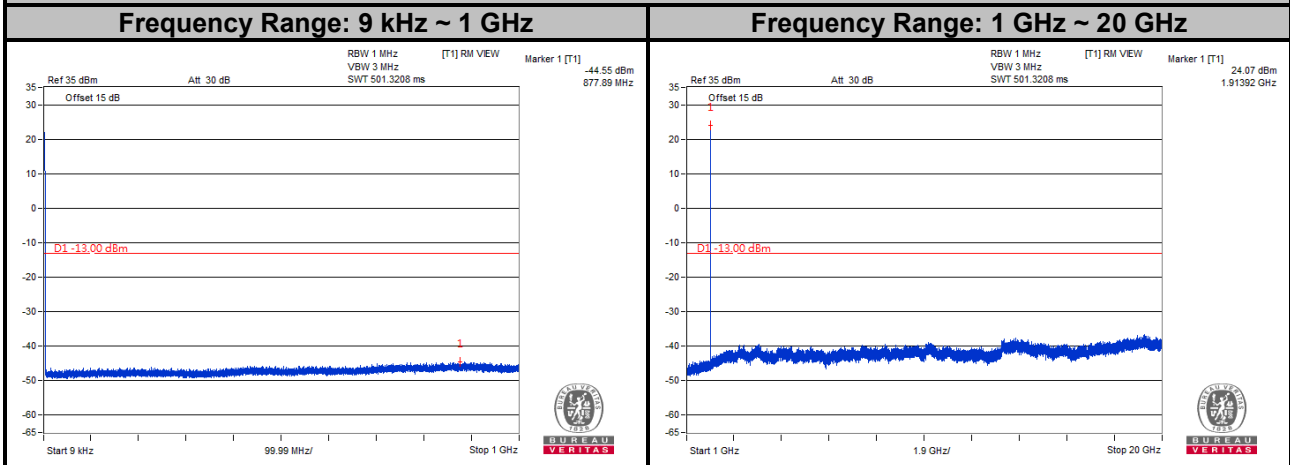
**Channel 26047**



**Channel 26365**



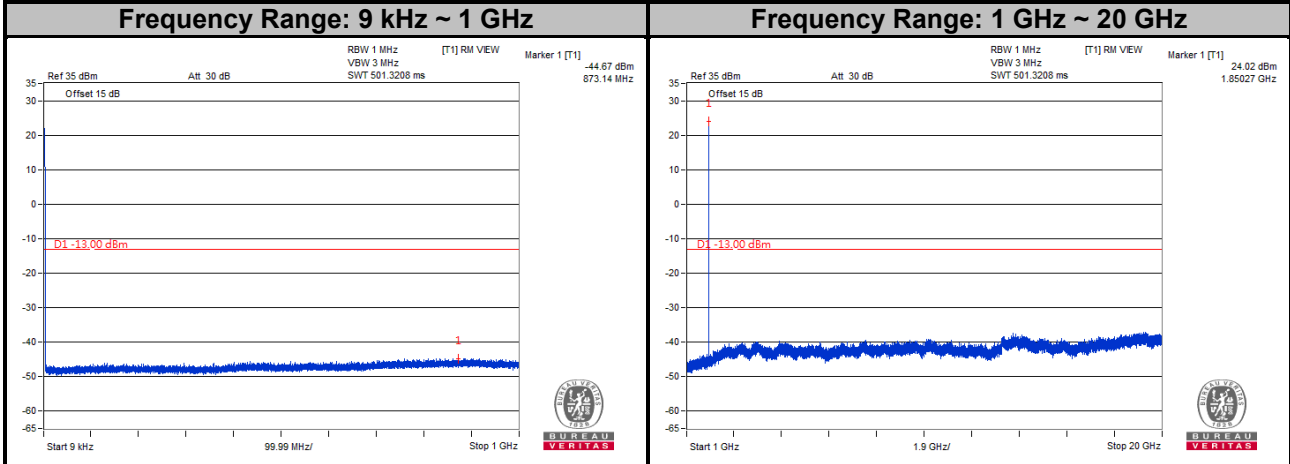
**Channel 26683**



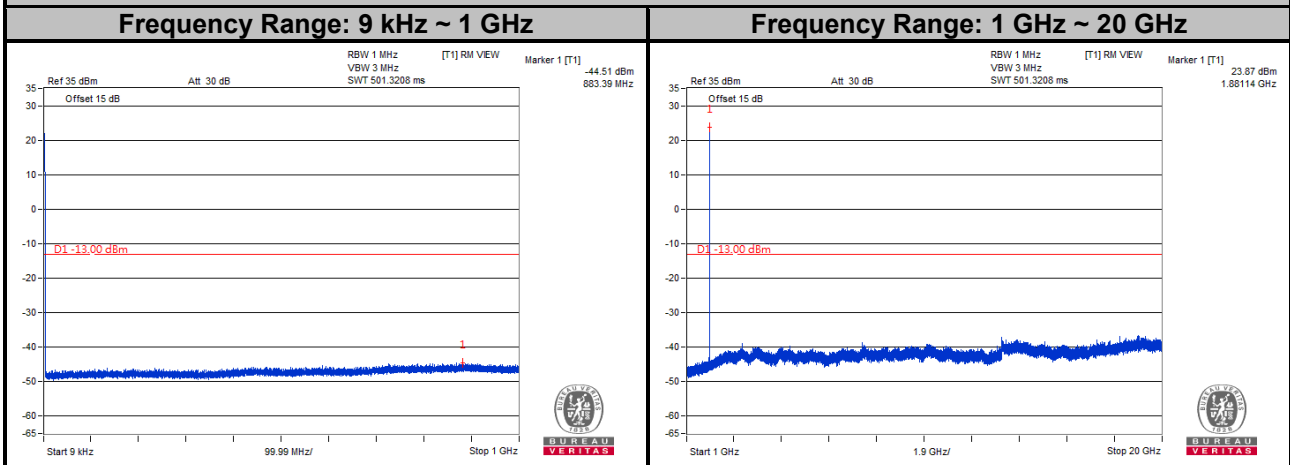
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 25**  
**Channel Bandwidth: 3 MHz**

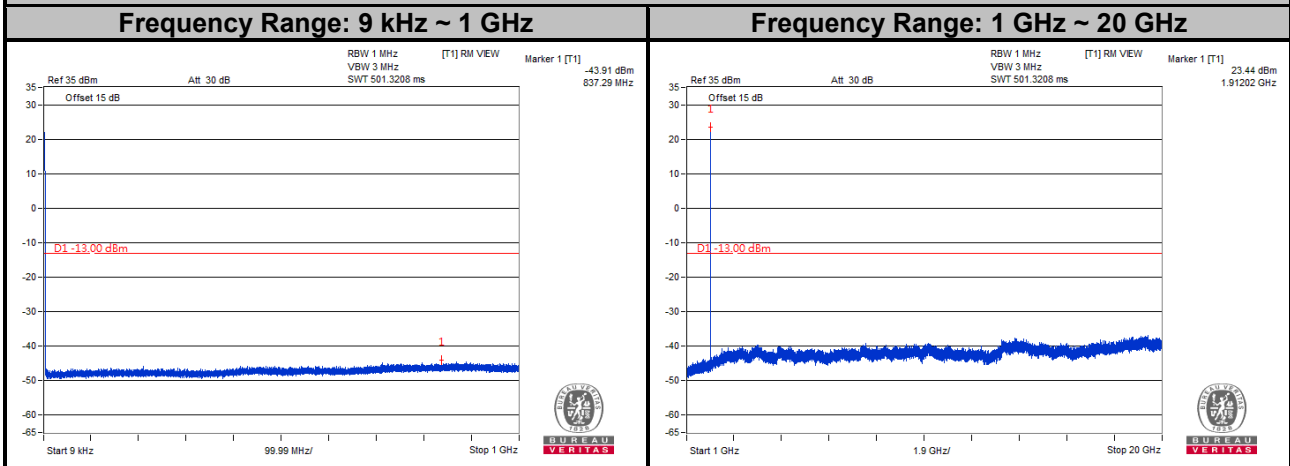
**Channel 26055**



**.Channel 26365**



**Channel 26675**

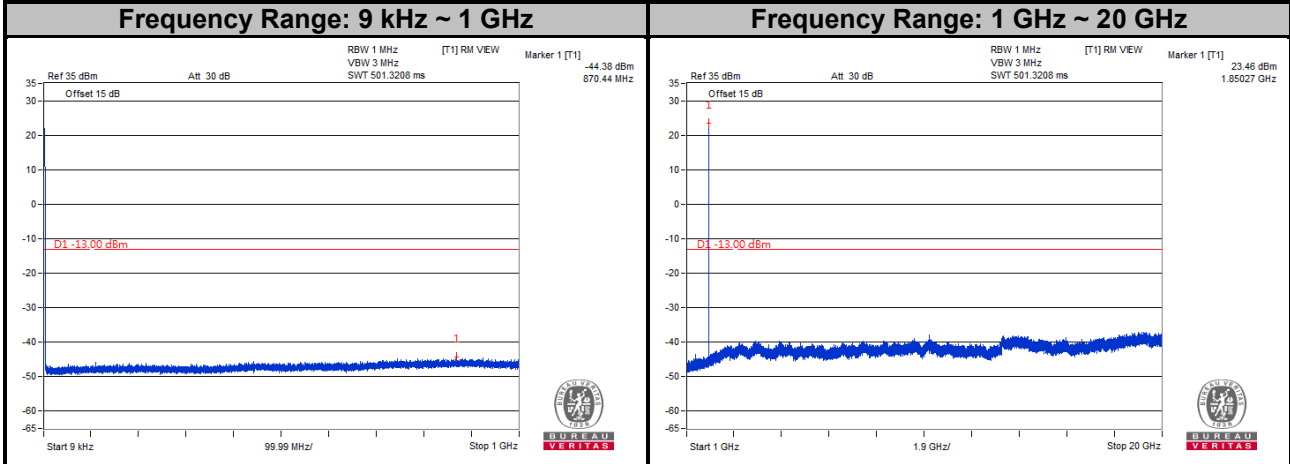


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

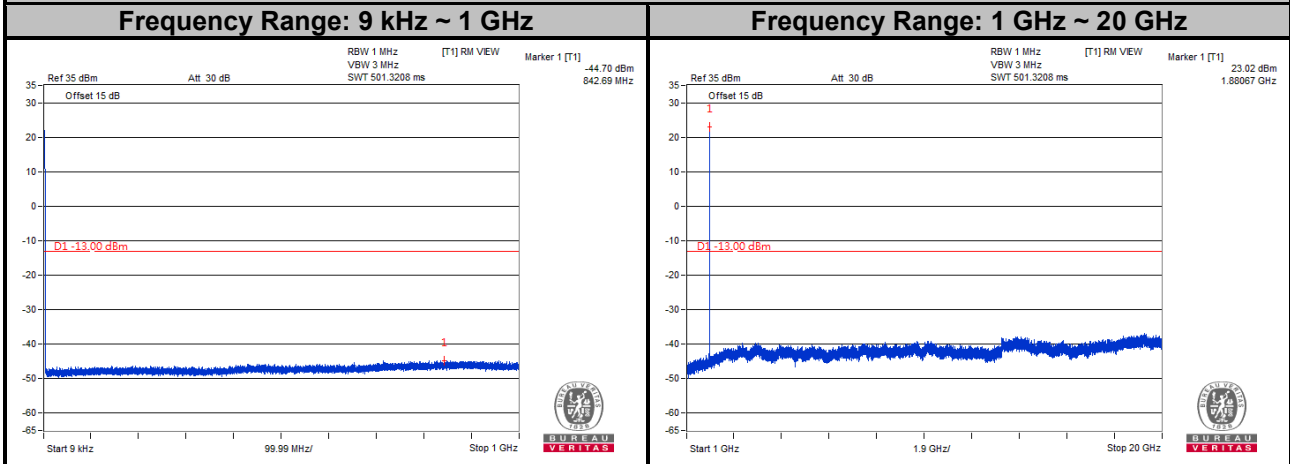


**LTE Band 25**  
**Channel Bandwidth: 5 MHz**

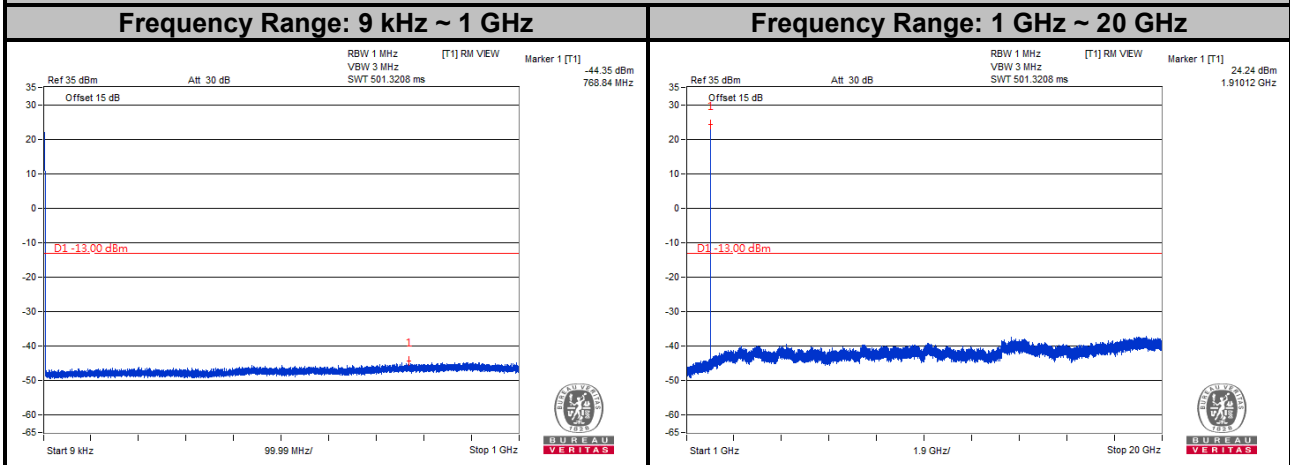
**Channel 26065**



**Channel 26365**



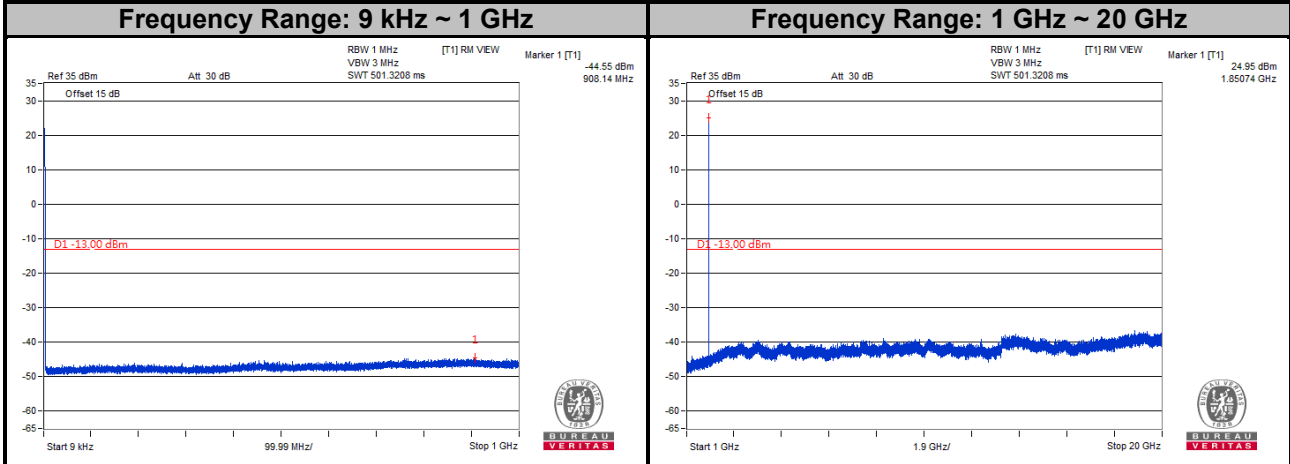
**Channel 26665**



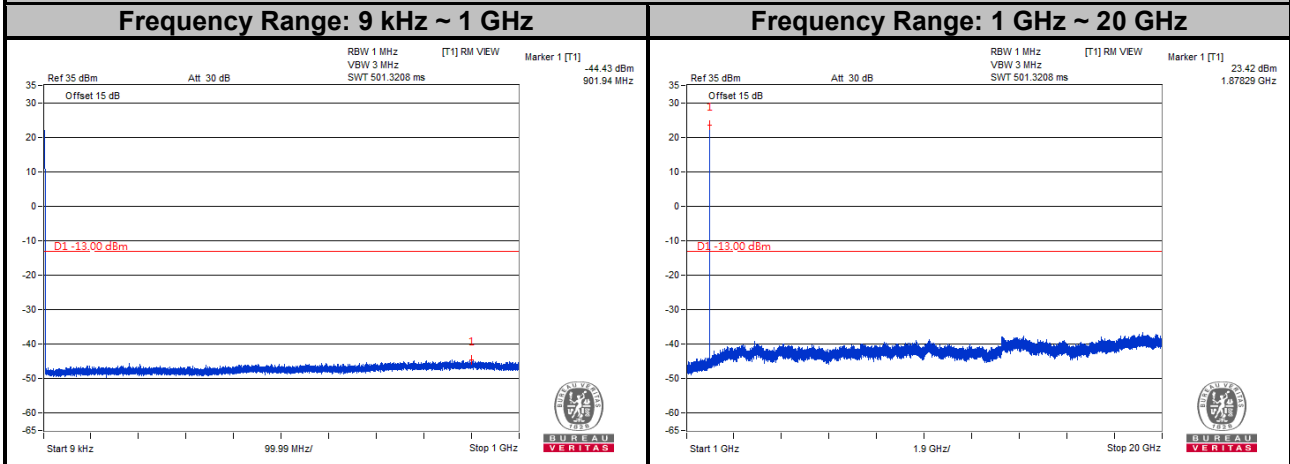
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 25**  
**Channel Bandwidth: 10 MHz**

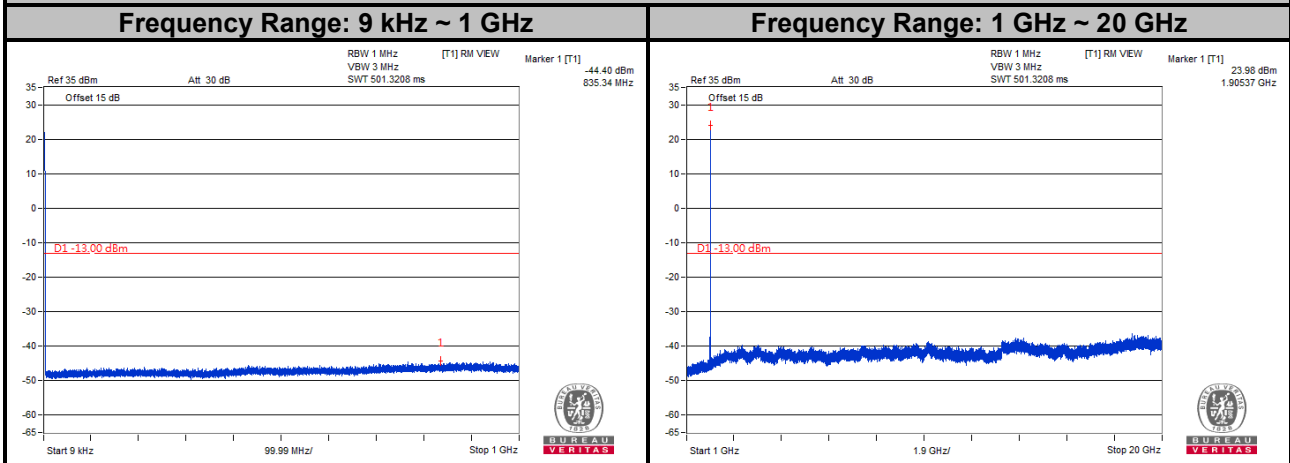
**Channel 26090**



**Channel 26365**



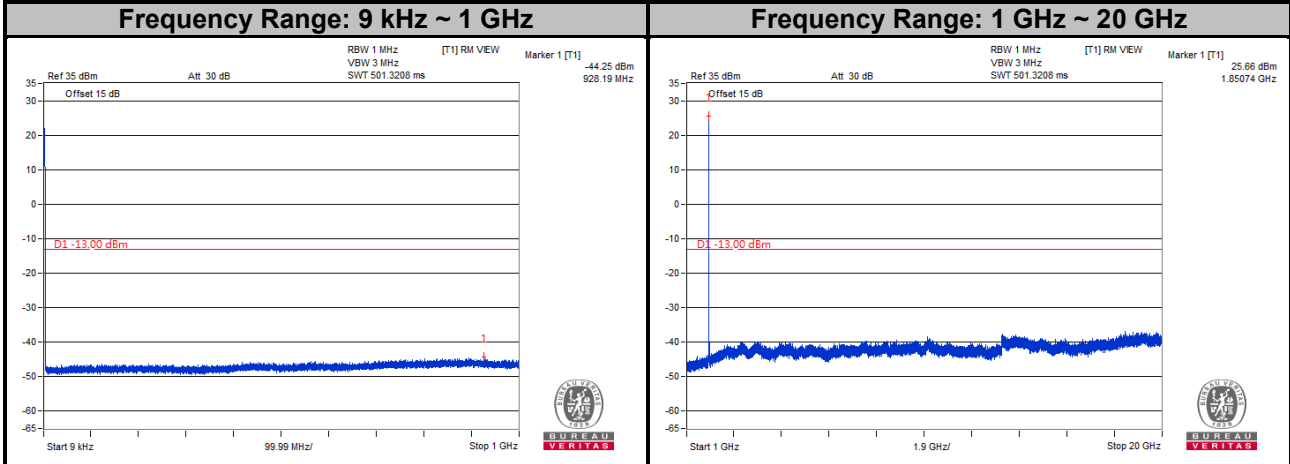
**Channel 26640**



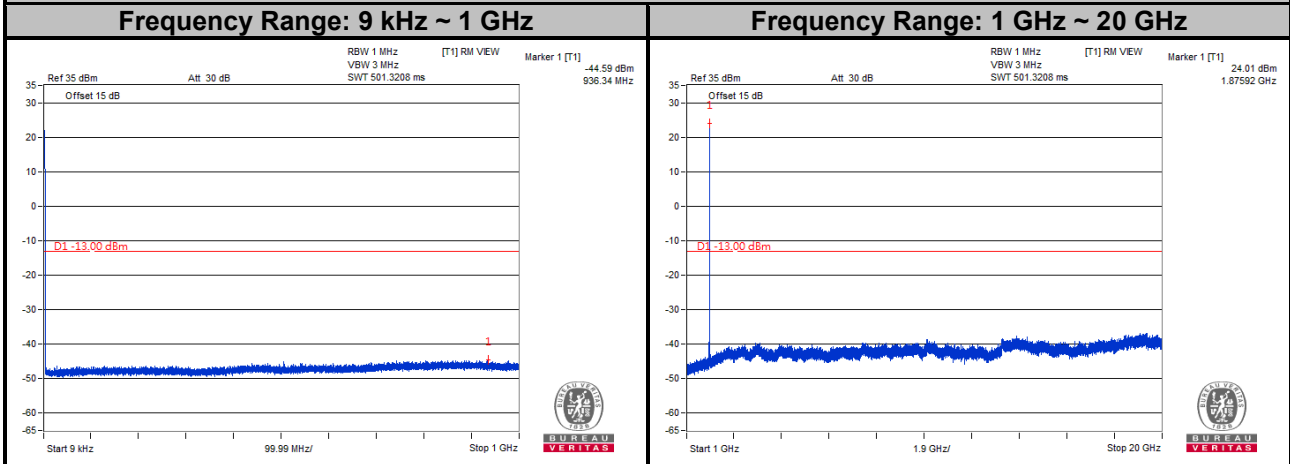
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 25**  
**Channel Bandwidth: 15 MHz**

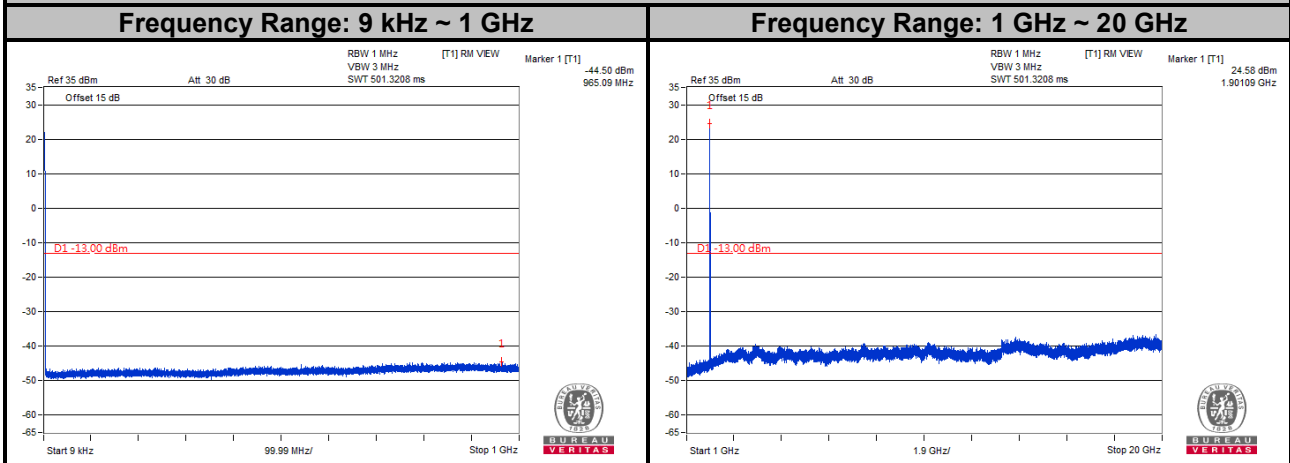
**Channel 26115**



**Channel 26365**



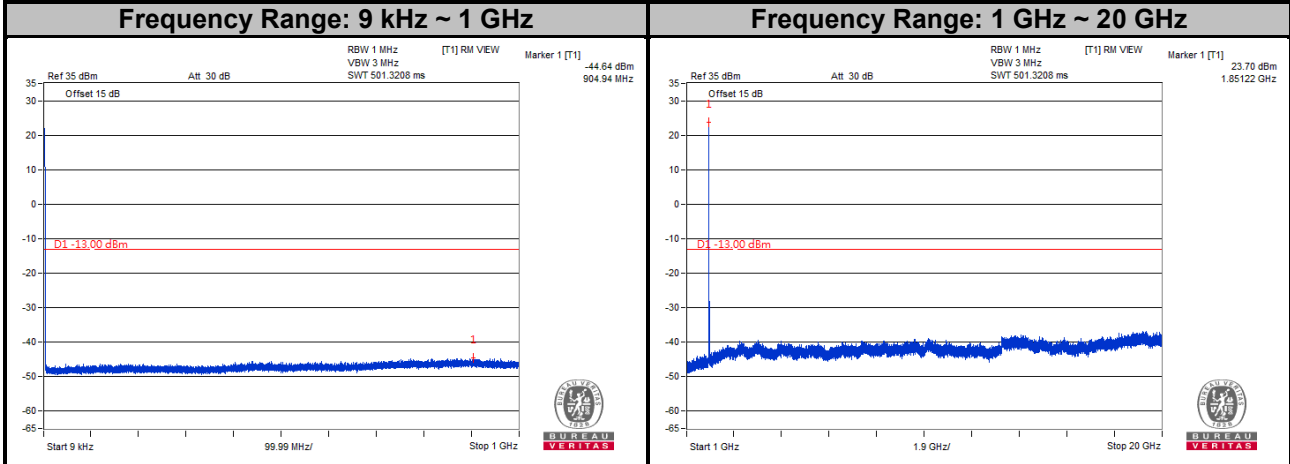
**Channel 26615**



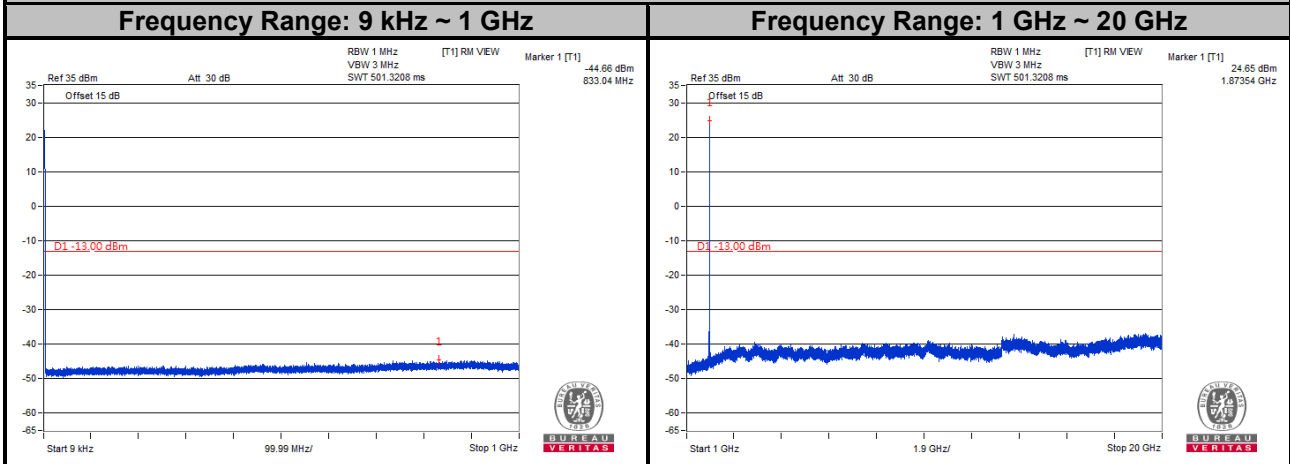
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

**LTE Band 25**  
**Channel Bandwidth: 20 MHz**

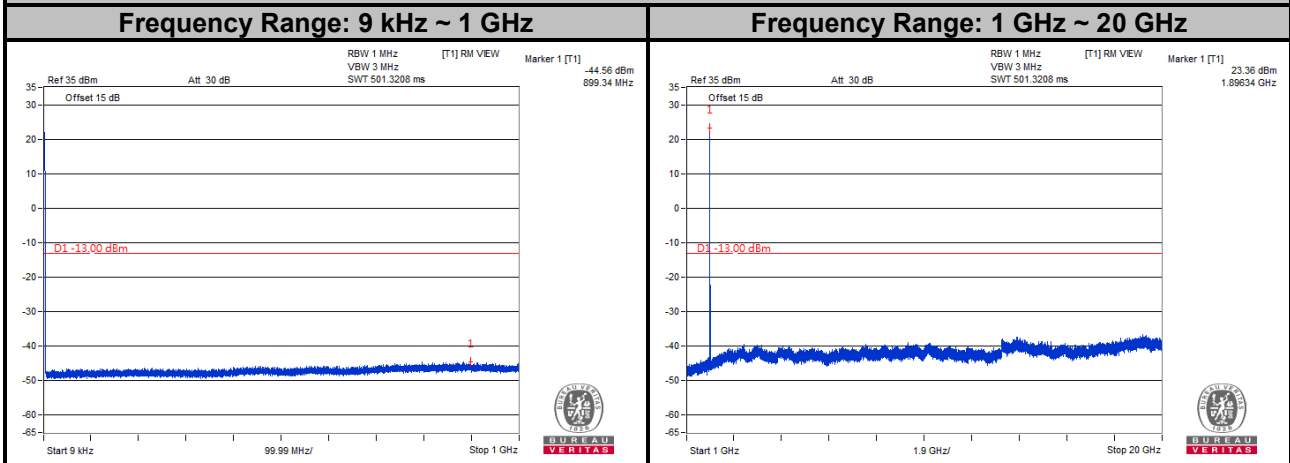
**Channel 26140**



**Channel 26365**



**Channel 26590**



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

## 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit is equal to -13 dBm.

### 4.8.2 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.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . Correction Factor (includes EIRP and ERP unit conversion factor) = Antenna gain of substitution horn. - Tx cable loss. Measurement method refers to ANSI C63.26 section 5.5.3.2.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$ .

#### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:

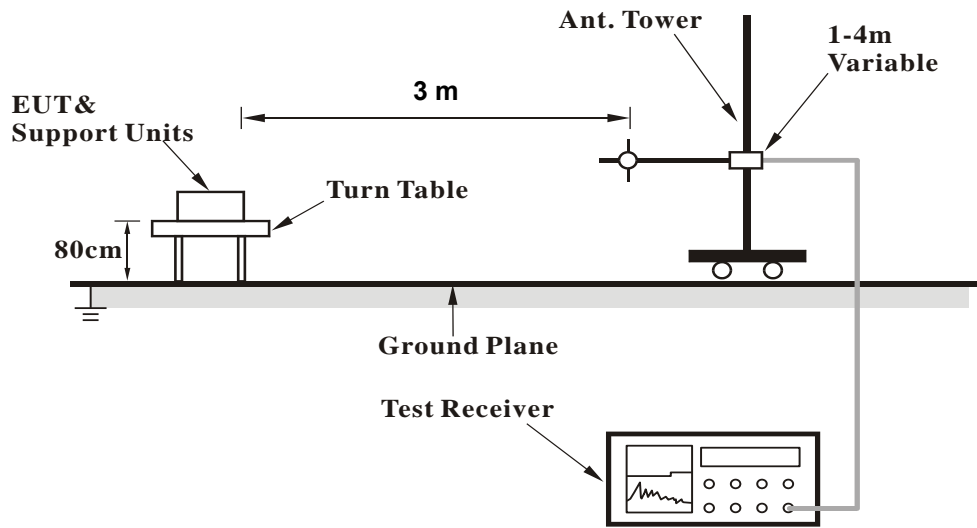
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

### 4.8.3 Deviation from Test Standard

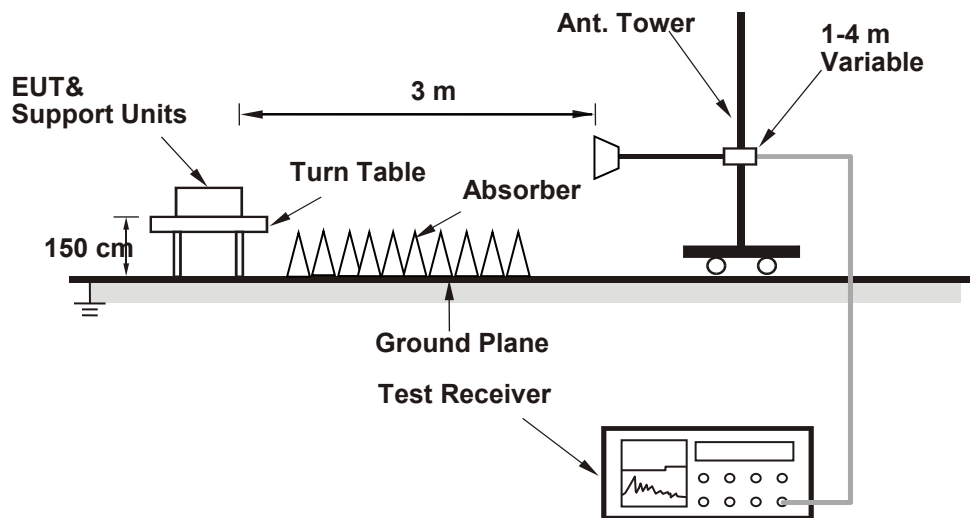
No deviation.

#### 4.8.4 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).

4.8.5 Test Results

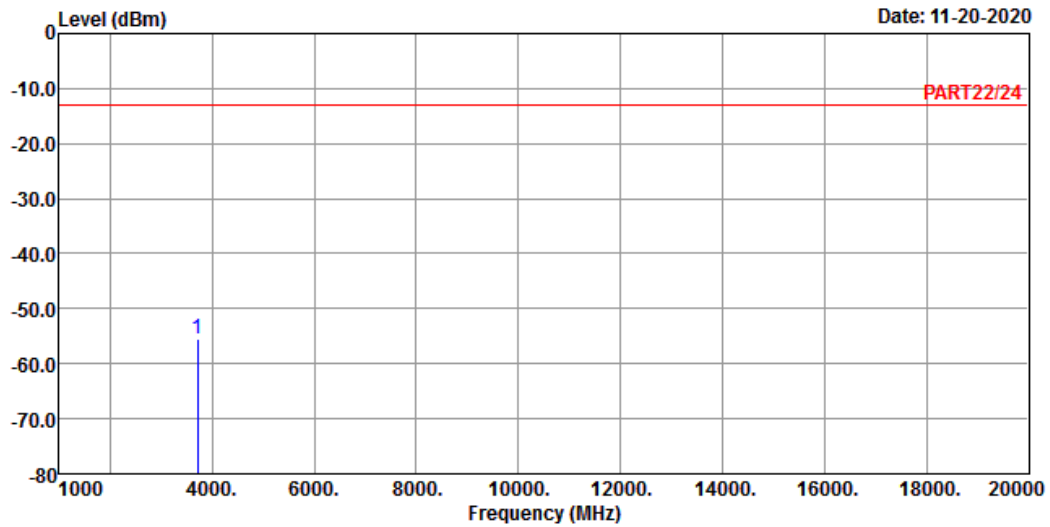
WCDMA:  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
Condition: PART22/24 VERTICAL  
Remak : WCDMA B2 Link\_L-CH  
Tested by: Cyril Chen

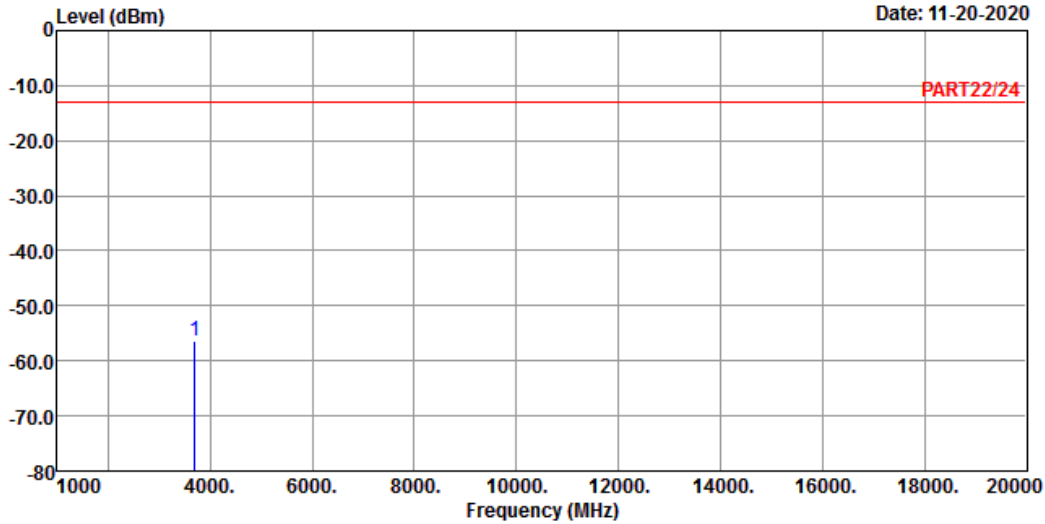
	Read	Limit	Over	
Freq	Level	Level	Line	Factor
MHz	dBm	dBm	dBm	dB
1 pp 3704.80	-55.50	-48.57	-13.00	-6.93
				-42.50 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : WCDMA B2 Link\_L-CH  
 Tested by: Cyril Chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-56.34	-49.41	-13.00	-6.93	-43.34	Peak



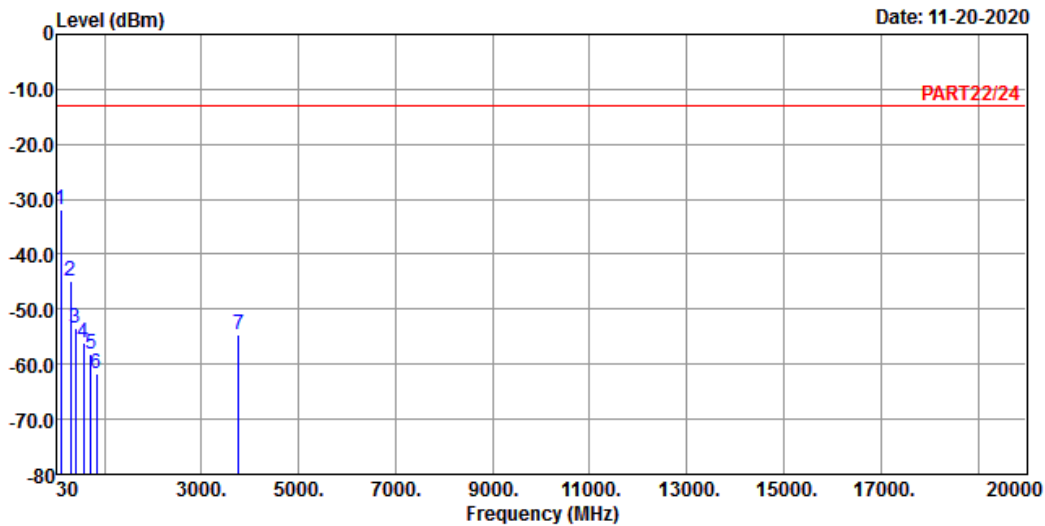
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : WCDMA B2 Link\_M-CH  
 Tested by: Cyril Chen

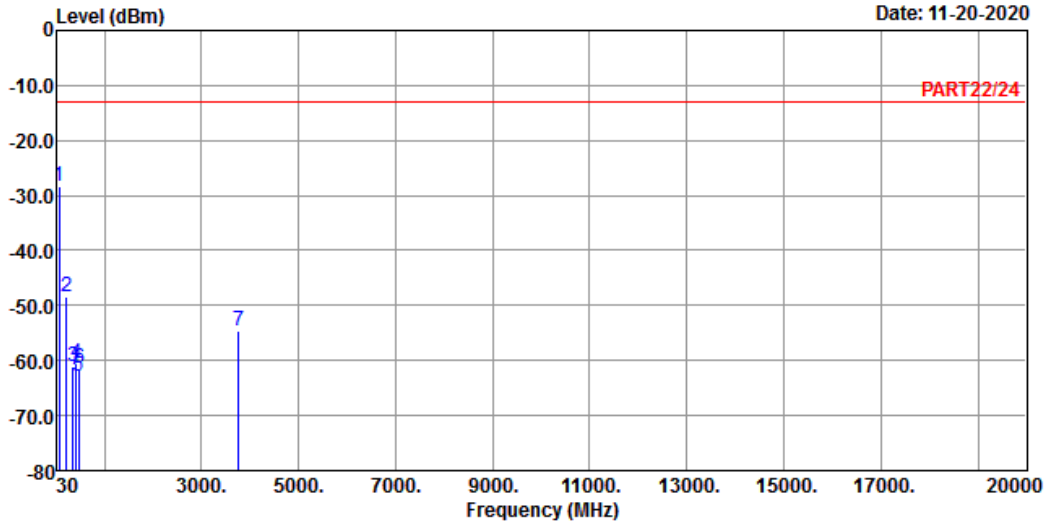
	Freq	Level	Read Level	Limit Line	Over Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	97.90	-31.98	-21.31	-13.00	-10.67	-18.98	Peak
2	306.45	-44.84	-37.93	-13.00	-6.91	-31.84	Peak
3	402.48	-53.49	-47.56	-13.00	-5.93	-40.49	Peak
4	571.26	-56.18	-54.22	-13.00	-1.96	-43.18	Peak
5	724.52	-58.28	-58.66	-13.00	0.38	-45.28	Peak
6	836.07	-61.68	-62.09	-13.00	0.41	-48.68	Peak
7	3760.00	-54.63	-47.98	-13.00	-6.65	-41.63	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : WCDMA B2 Link\_M-CH  
 Tested by: Cyril Chen

	Read	Limit	Over			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	72.68	-28.24	-19.17	-13.00	-9.07	-15.24 Peak
2	217.21	-48.37	-41.05	-13.00	-7.32	-35.37 Peak
3	353.01	-61.11	-54.89	-13.00	-6.22	-48.11 Peak
4	412.18	-60.46	-54.61	-13.00	-5.85	-47.46 Peak
5	476.20	-62.84	-57.78	-13.00	-5.06	-49.84 Peak
6	485.90	-61.46	-56.58	-13.00	-4.88	-48.46 Peak
7	3760.00	-54.53	-47.88	-13.00	-6.65	-41.53 Peak

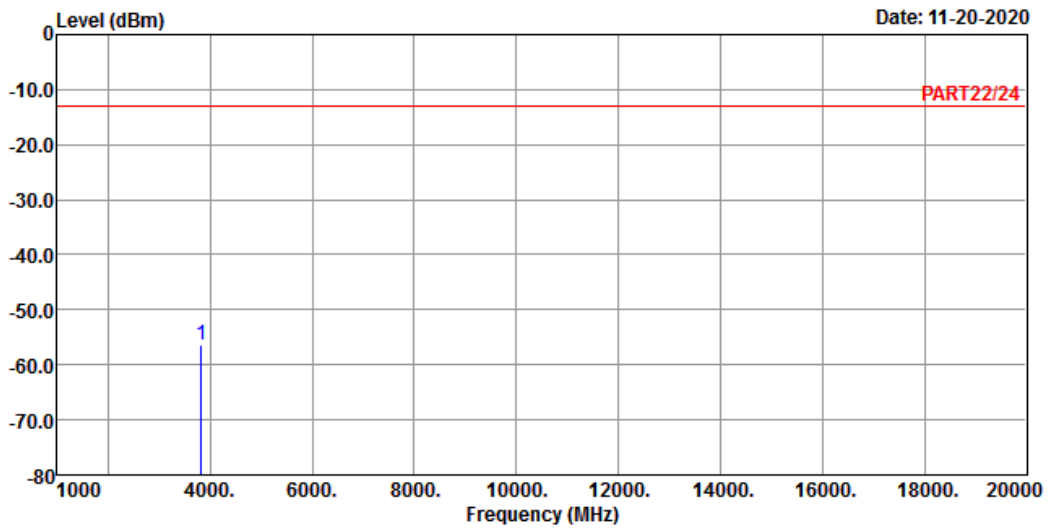
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : WCDMA B2 Link\_H-CH  
 Tested by: Cyril Chen

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

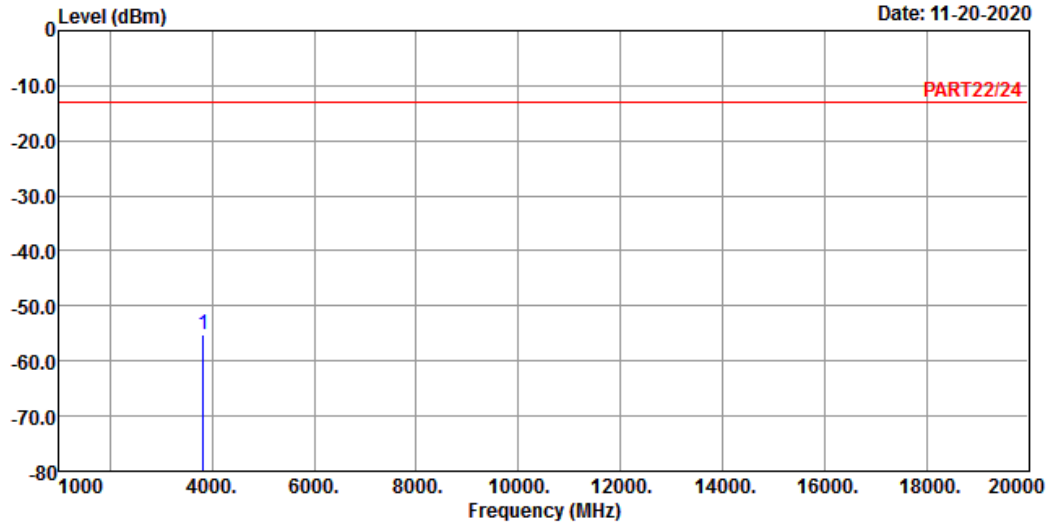
1 pp 3815.20 -56.26 -49.86 -13.00 -6.40 -43.26 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : WCDMA B2 Link\_H-CH  
 Tested by: Cyril Chen

Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3815.20	-55.19	-48.79	-13.00	-6.40	-42.19 Peak

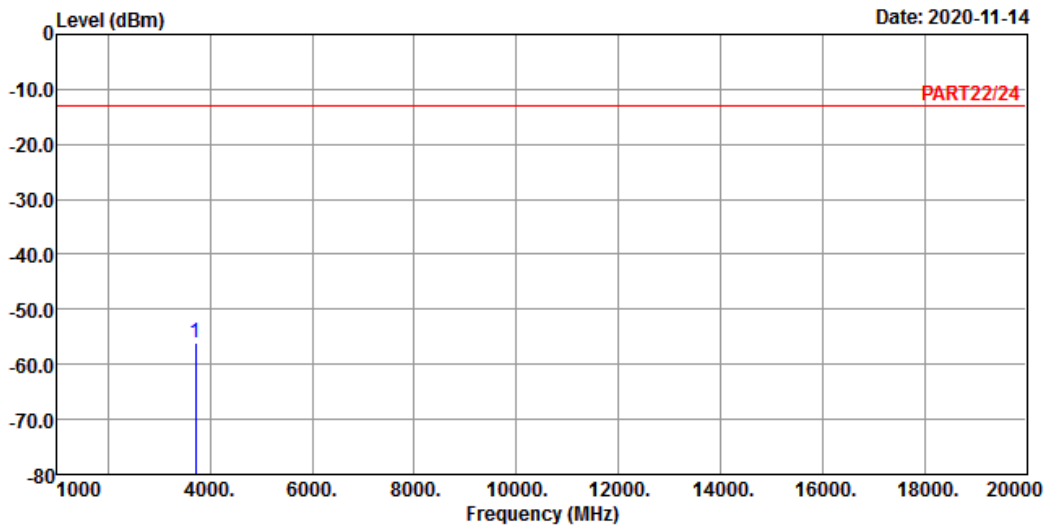
LTE Band 2  
 Channel Bandwidth: 1.4 MHz / QPSK  
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remark : LTE Band 2 QPSK\_1.4M Link\_L-CH  
 Tested by: Getaz Yang

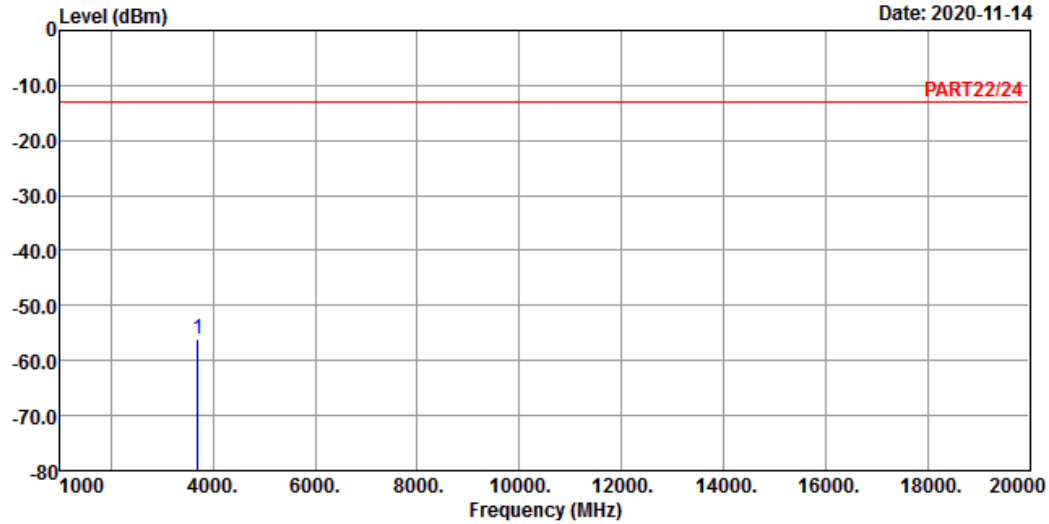
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3710.40	-56.13	-49.26	-13.00	-6.87	-43.13	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_1.4M Link\_L-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-56.22	-49.29	-13.00	-6.93	-43.22	Peak

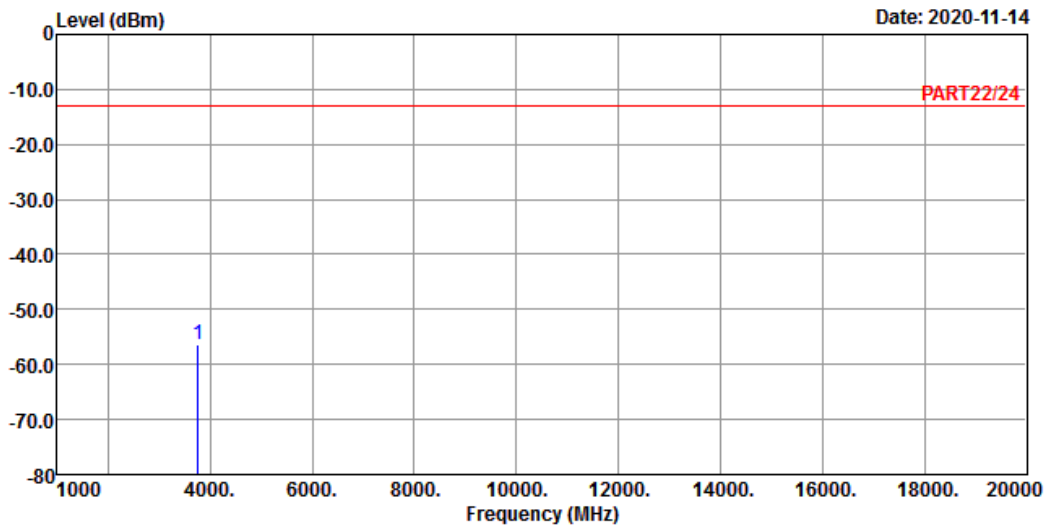
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 2 QPSK\_1.4M Link\_M-CH  
 Tested by: Getaz Yang

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

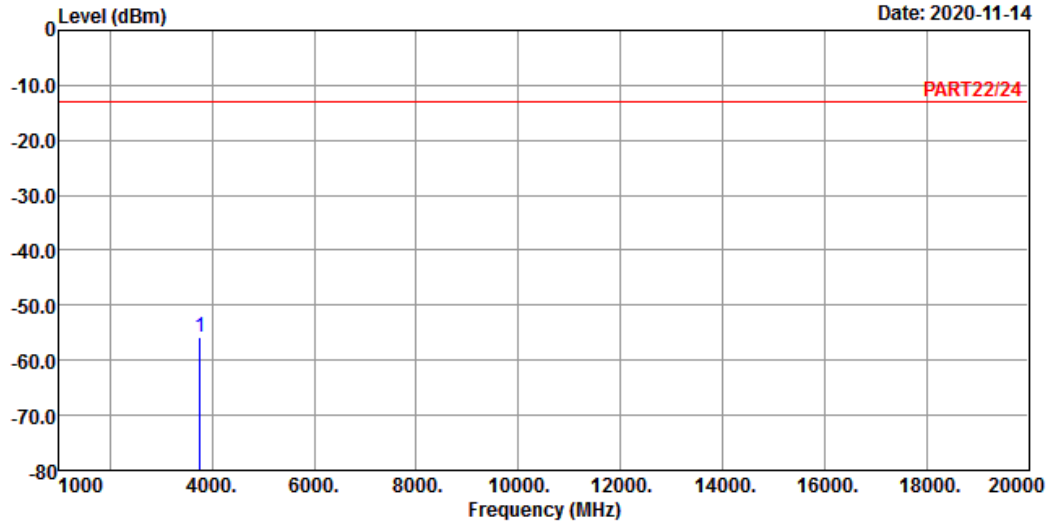
1 pp 3760.00 -56.24 -49.59 -13.00 -6.65 -43.24 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_1.4M Link\_M-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-55.74	-49.09	-13.00	-6.65	-42.74	Peak



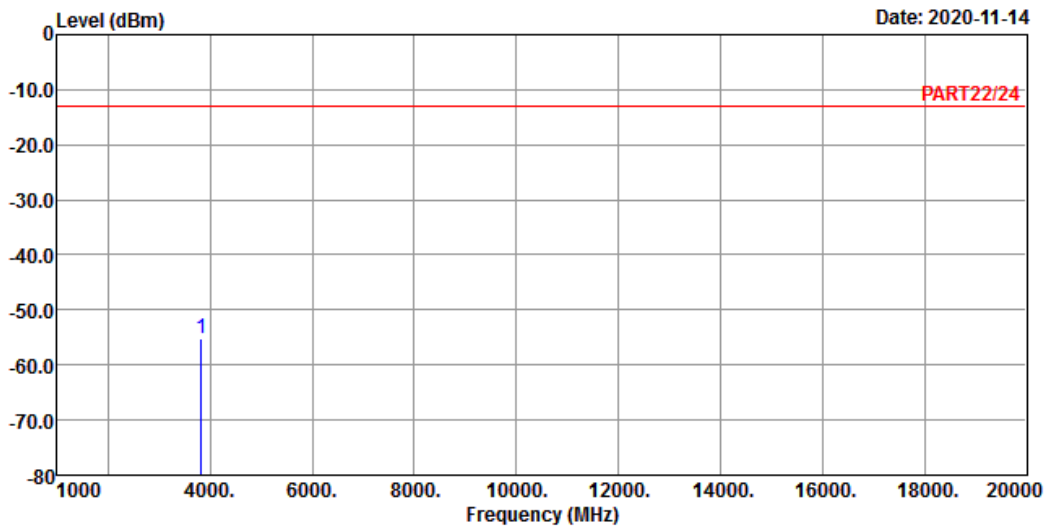
# High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 2 QPSK\_1.4M Link\_H-CH  
 Tested by: Getaz Yang

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

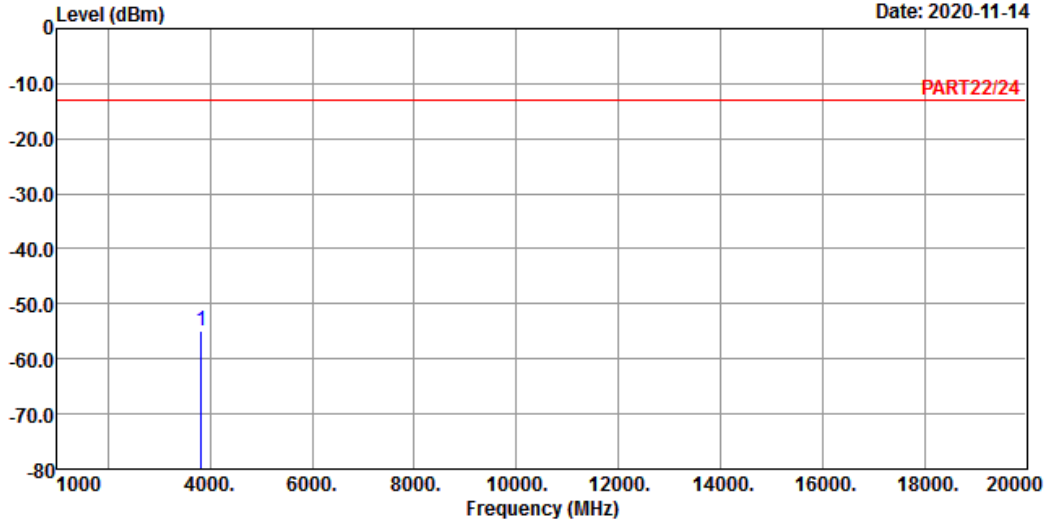
1 pp 3818.60 -55.33 -48.93 -13.00 -6.40 -42.33 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_1.4M Link\_H-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3818.60	-54.98	-48.58	-13.00	-6.40	-41.98	Peak

Channel Bandwidth: 5 MHz / QPSK  
Low Channel

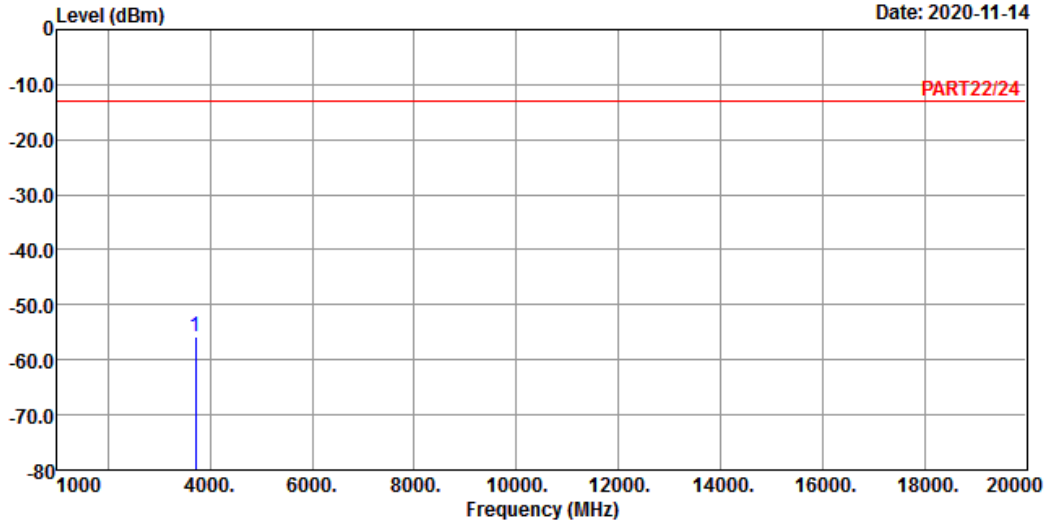


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2020-11-14



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : LTE Band 2 QPSK\_5M Link\_L-CH  
Tested by: Getaz Yang

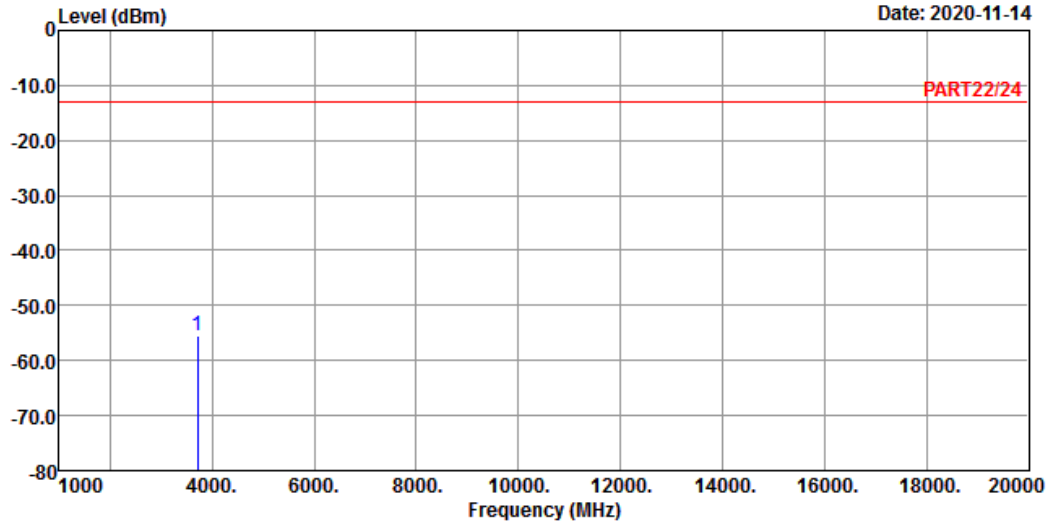
Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3705.00	-55.80	-48.87	-13.00	-6.93	-42.80 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_5M Link\_L-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.46	-48.53	-13.00	-6.93	-42.46	Peak

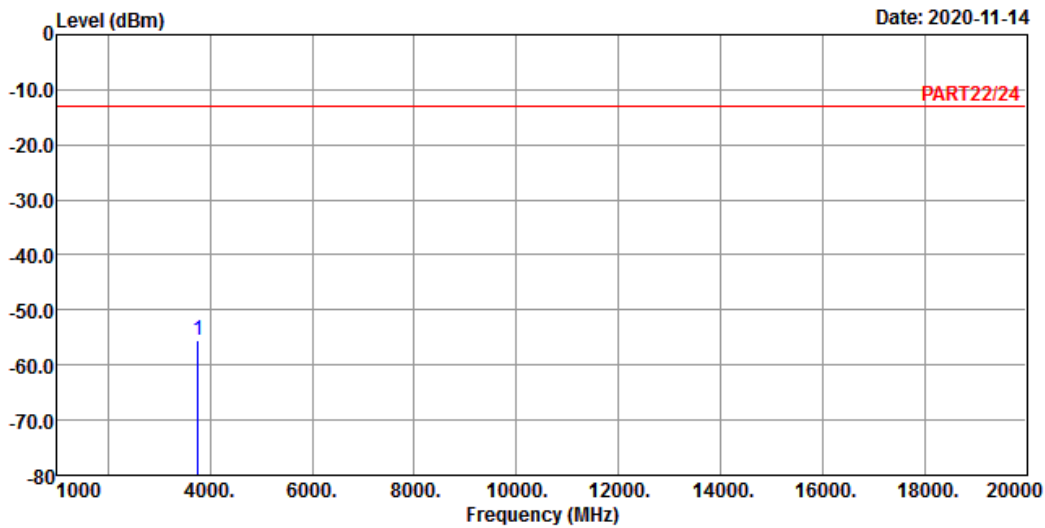
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 2 QPSK\_5M Link\_M-CH  
 Tested by: Getaz Yang

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

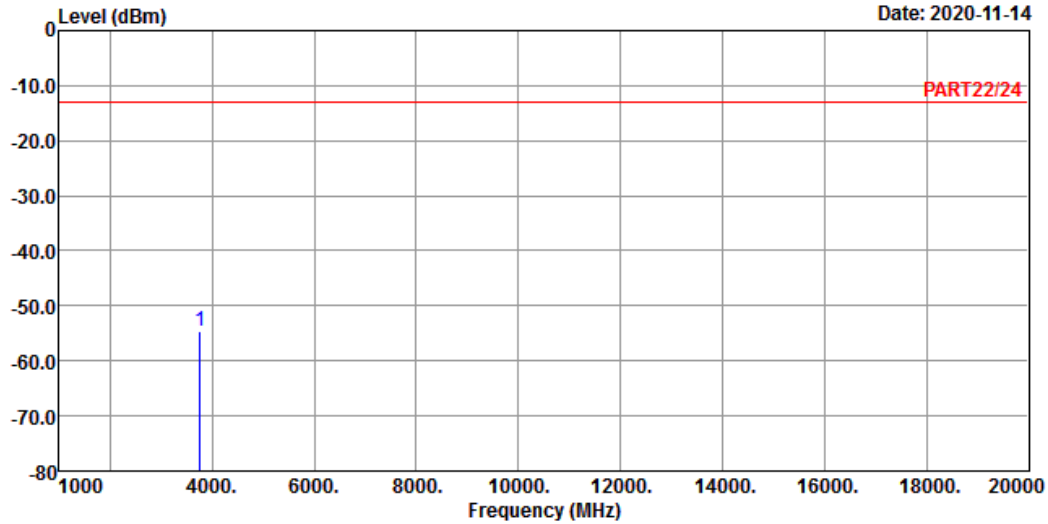
1 pp 3760.00 -55.42 -48.77 -13.00 -6.65 -42.42 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_5M Link\_M-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-54.47	-47.82	-13.00	-6.65	-41.47	Peak

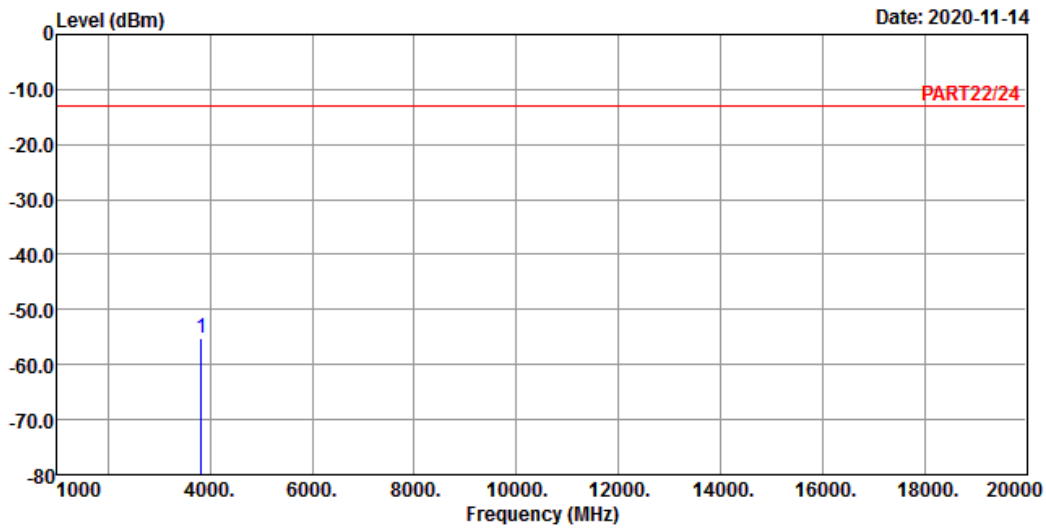
# High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 2 QPSK\_5M Link\_H-CH  
 Tested by: Getaz Yang

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

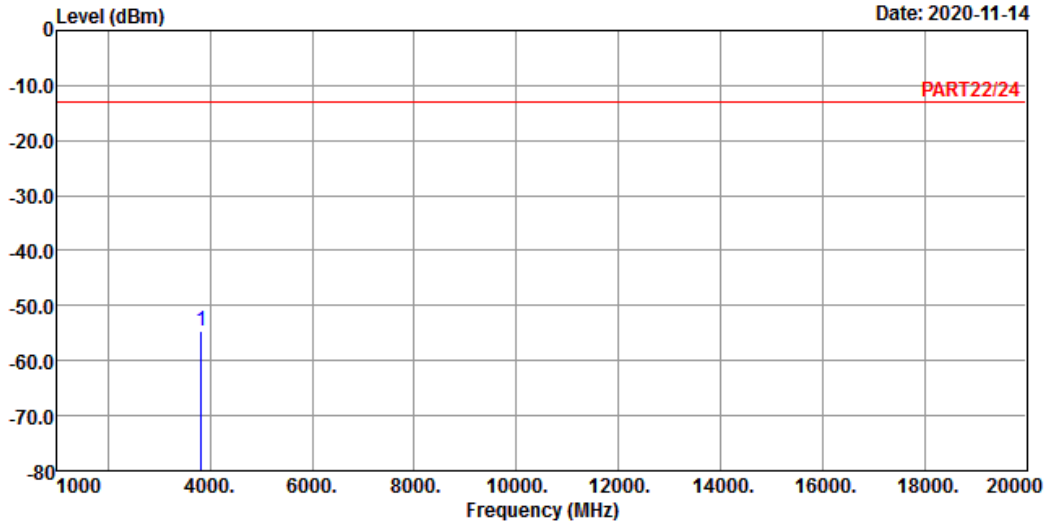
1 pp 3815.00 -55.13 -48.73 -13.00 -6.40 -42.13 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_5M Link\_H-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.00	-54.55	-48.15	-13.00	-6.40	-41.55	Peak



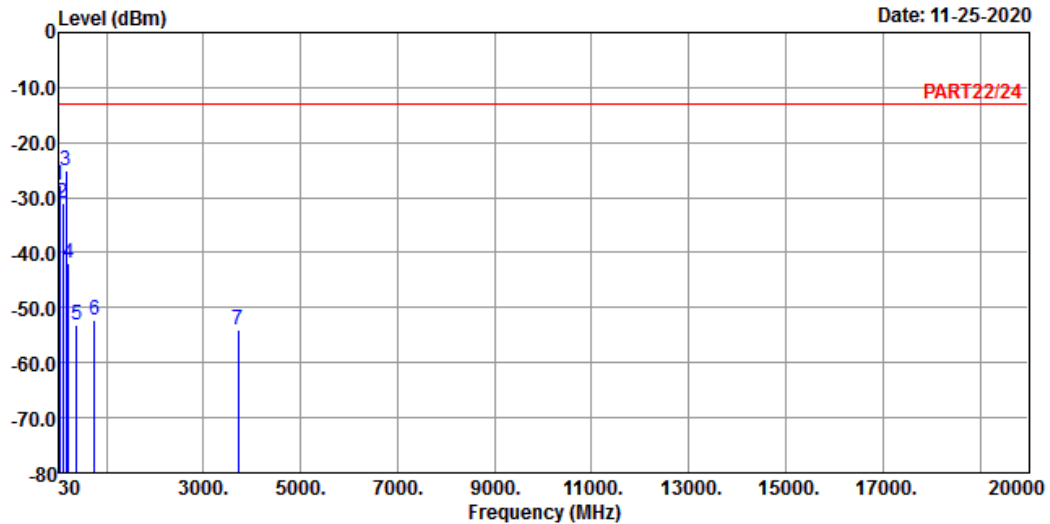
Channel Bandwidth: 20 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : LTE Band 2 QPSK\_20M Link\_L-CH  
Tested by: Getaz Yang

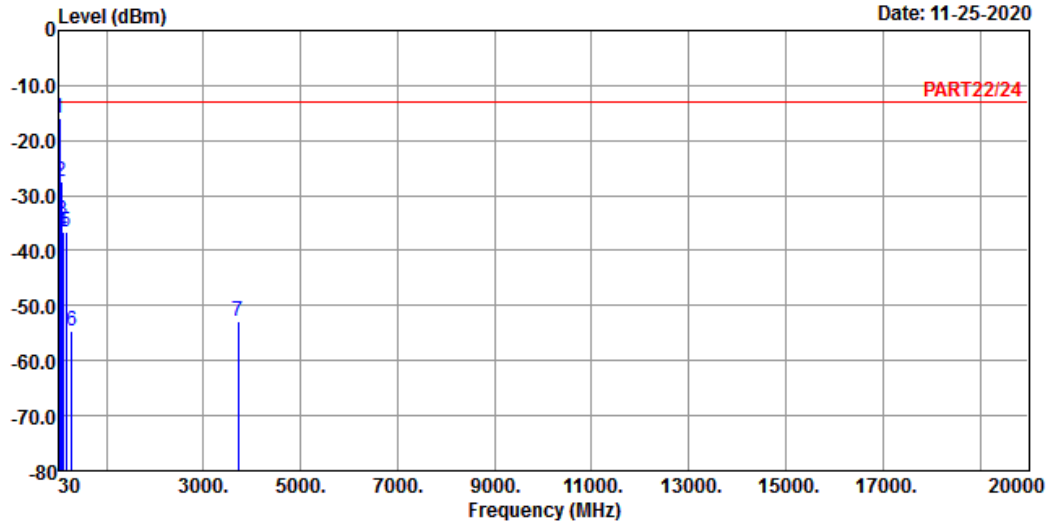
	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	34.85	-27.68	-25.61	-13.00	-2.07	-14.68	Peak
2	108.57	-30.98	-20.63	-13.00	-10.35	-17.98	Peak
3 pp	168.71	-25.10	-19.64	-13.00	-5.46	-12.10	Peak
4	224.00	-41.88	-34.83	-13.00	-7.05	-28.88	Peak
5	385.02	-53.02	-46.99	-13.00	-6.03	-40.02	Peak
6	746.83	-52.10	-52.92	-13.00	0.82	-39.10	Peak
7	3720.00	-54.03	-47.21	-13.00	-6.82	-41.03	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 2 QPSK\_20M Link\_L-CH  
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	35.82	-15.87	-14.34	-13.00	-1.53	-2.87	Peak
2	68.80	-27.57	-19.25	-13.00	-8.32	-14.57	Peak
3	87.23	-34.67	-23.63	-13.00	-11.04	-21.67	Peak
4	108.57	-36.59	-26.24	-13.00	-10.35	-23.59	Peak
5	169.68	-36.66	-31.13	-13.00	-5.53	-23.66	Peak
6	279.29	-54.71	-48.12	-13.00	-6.59	-41.71	Peak
7	3720.00	-52.81	-45.99	-13.00	-6.82	-39.81	Peak

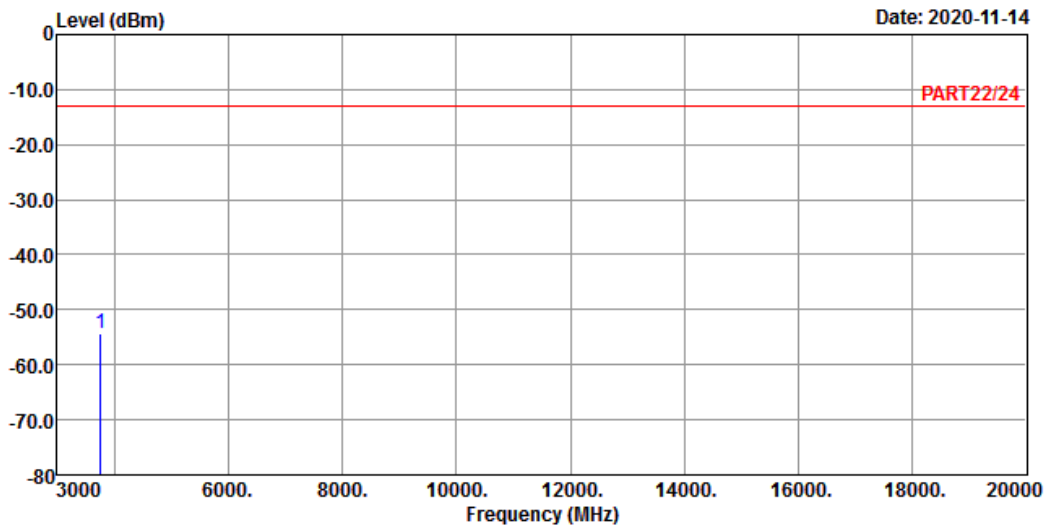
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 2 QPSK\_20M Link\_M-CH  
 Tested by: Getaz Yang

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

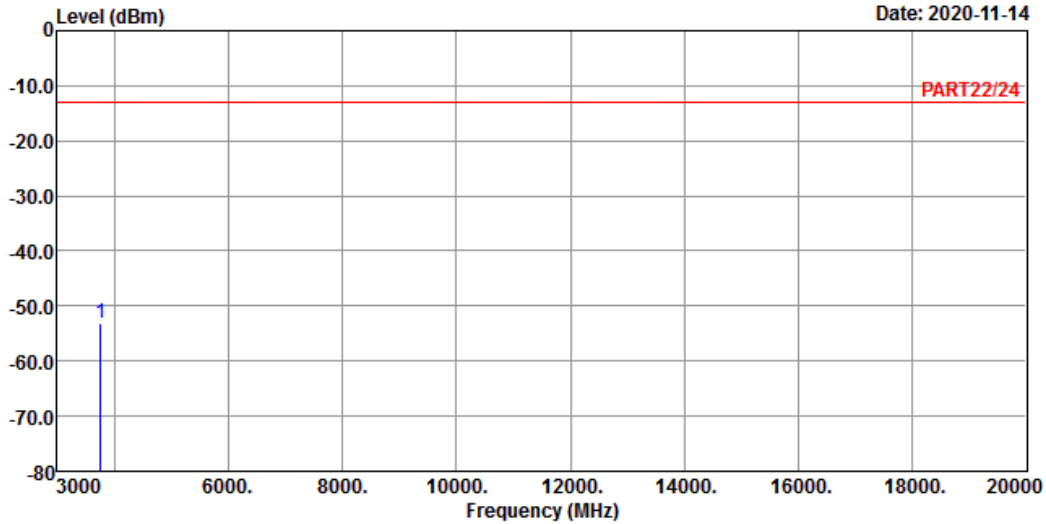
1 pp 3760.00 -54.36 -47.71 -13.00 -6.65 -41.36 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 2 QPSK\_20M Link\_M-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-53.08	-46.43	-13.00	-6.65	-40.08	Peak

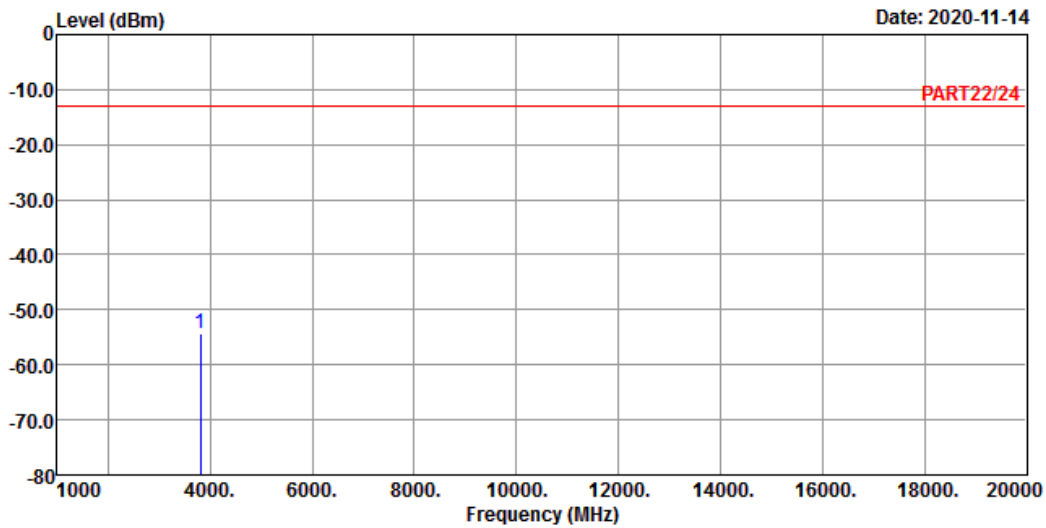
# High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 2 QPSK\_20M Link\_H-CH  
 Tested by: Getaz Yang

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

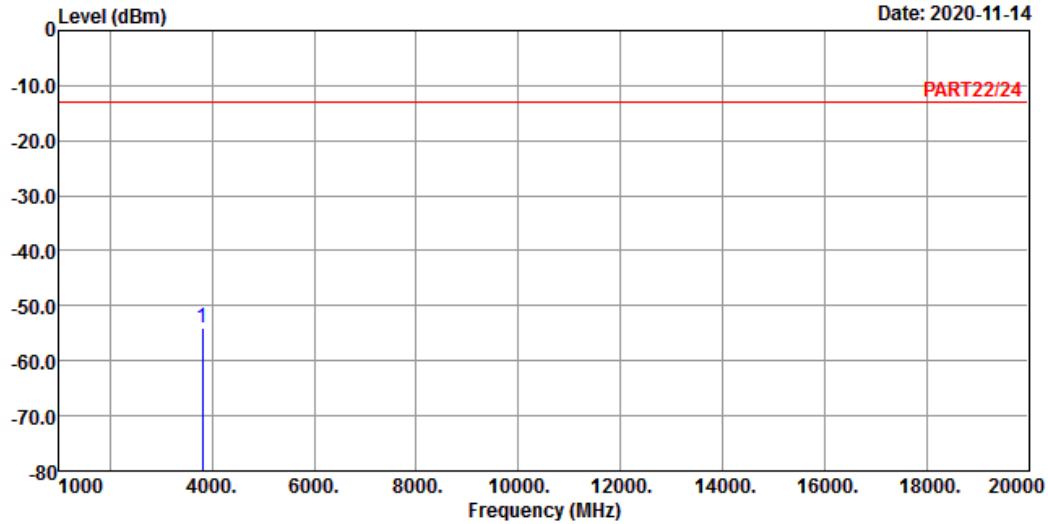
1 pp 3800.00 -54.41 -47.98 -13.00 -6.43 -41.41 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 2 QPSK\_20M Link\_H-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3800.00	-53.90	-47.47	-13.00	-6.43	-40.90	Peak

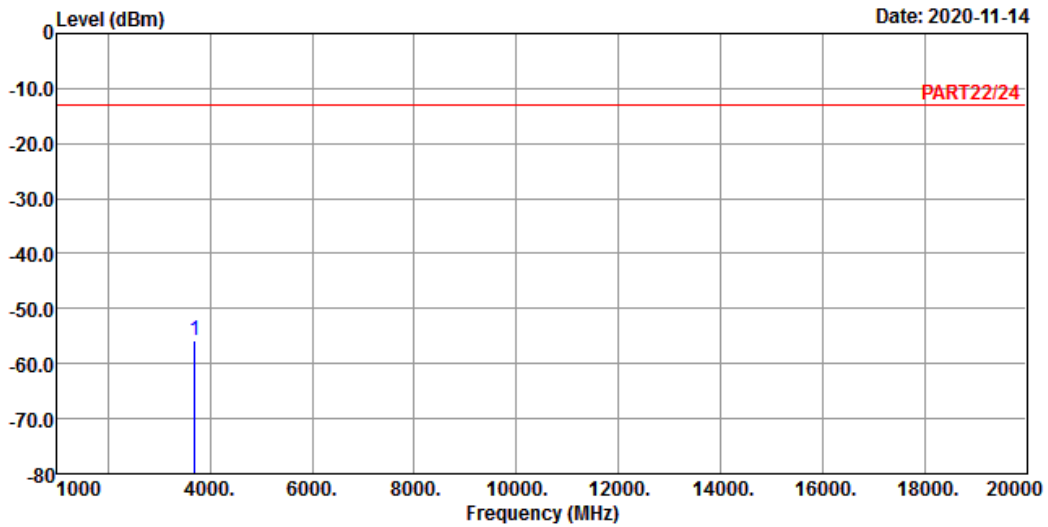
LTE Band 25  
 Channel Bandwidth: 1.4 MHz / QPSK  
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remark : LTE Band 25 QPSK\_1.4M Link\_L-CH  
 Tested by: Getaz Yang

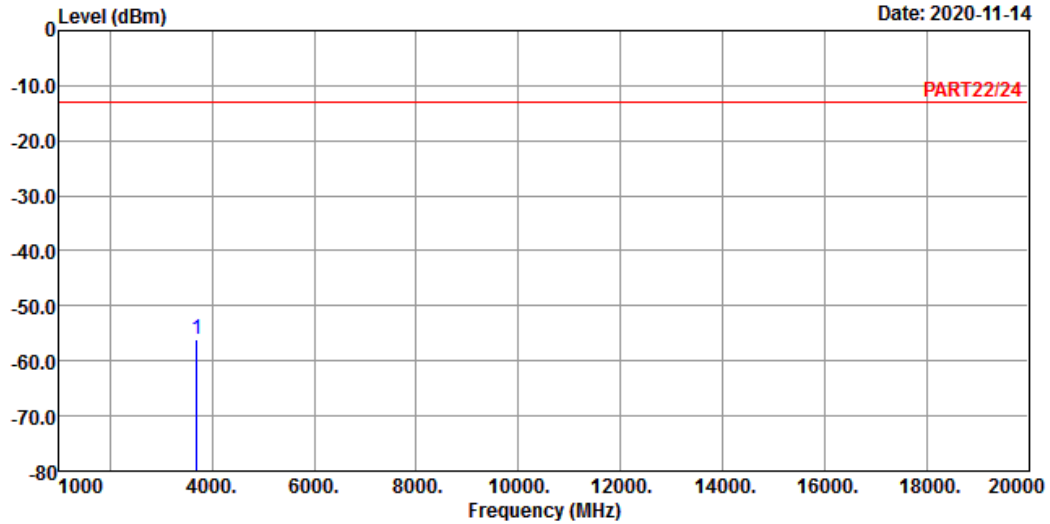
Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3701.40	-55.88	-48.95	-13.00	-6.93	-42.88 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 25 QPSK\_1.4M Link\_L-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-56.23	-49.30	-13.00	-6.93	-43.23	Peak



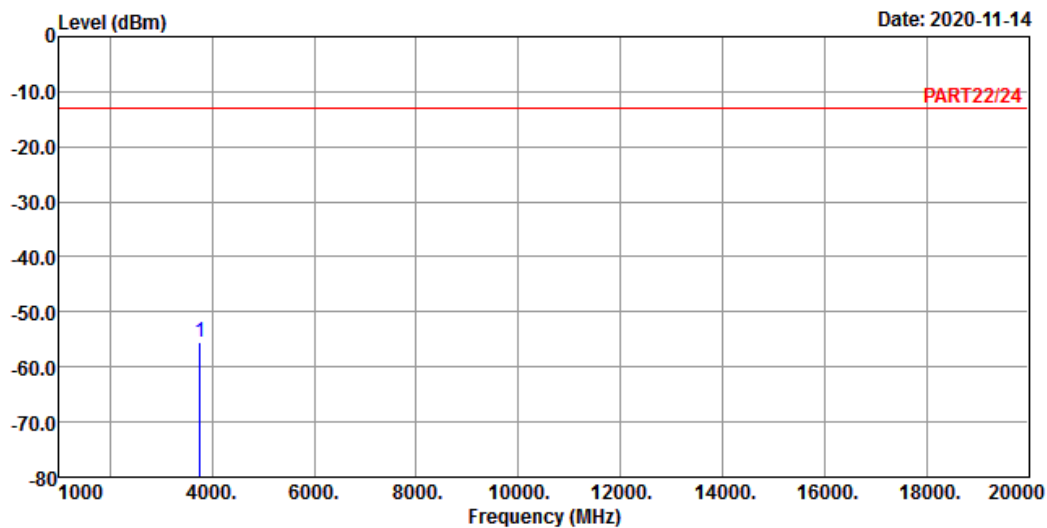
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 25 QPSK\_1.4M Link\_M-CH  
 Tested by: Getaz Yang

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

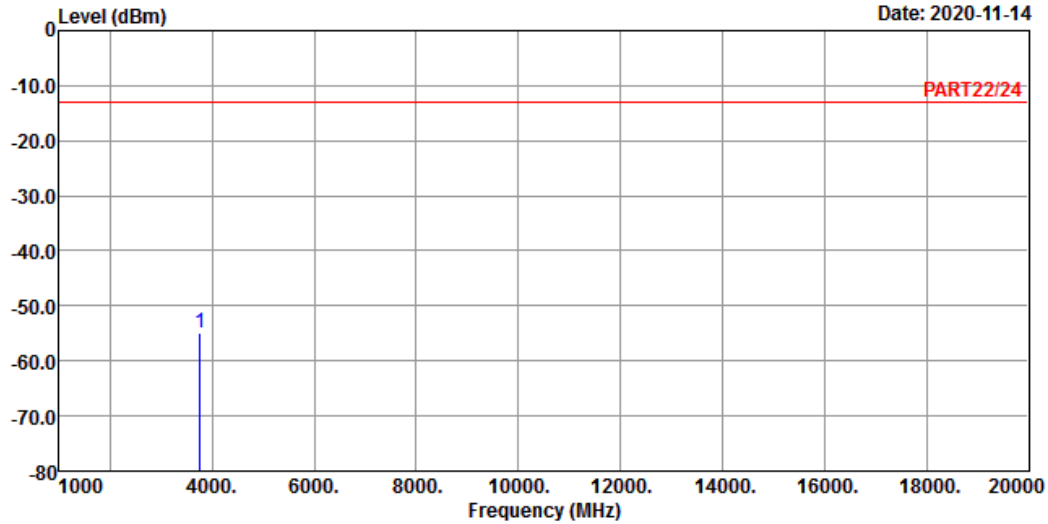
1 pp 3765.00 -55.64 -49.04 -13.00 -6.60 -42.64 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 25 QPSK\_1.4M Link\_M-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3765.00	-54.97	-48.37	-13.00	-6.60	-41.97 Peak

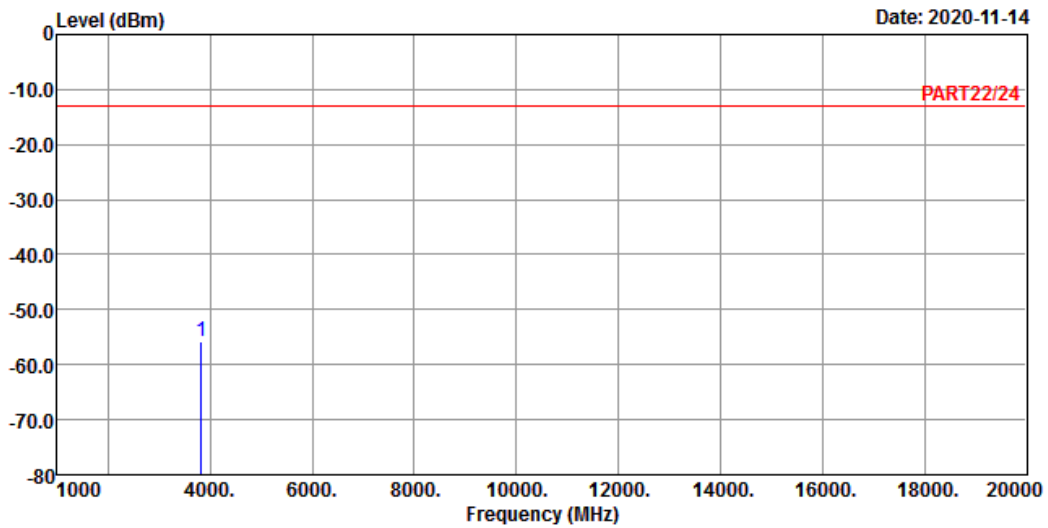
# High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 25 QPSK\_1.4M Link\_H-CH  
 Tested by: Getaz Yang

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

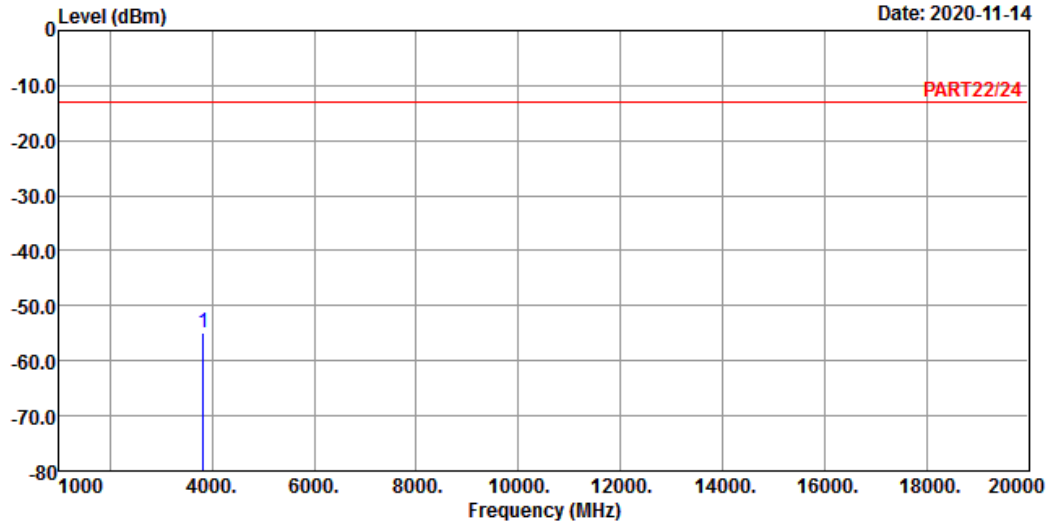
1 pp 3828.60 -55.76 -49.39 -13.00 -6.37 -42.76 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 25 QPSK\_1.4M Link\_H-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3828.60	-54.79	-48.42	-13.00	-6.37	-41.79 Peak

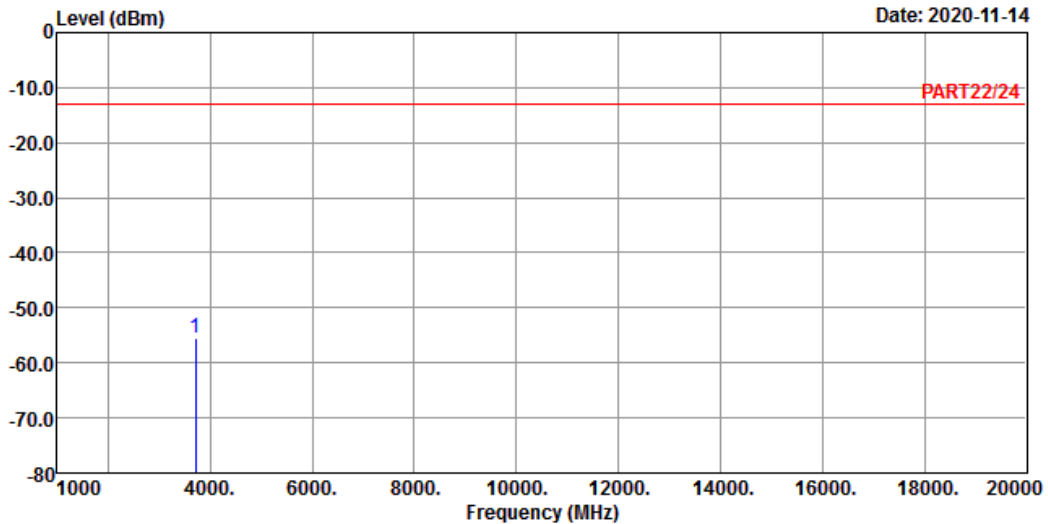
Channel Bandwidth: 5 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : LTE Band 25 QPSK\_5M Link\_L-CH  
Tested by: Getaz Yang

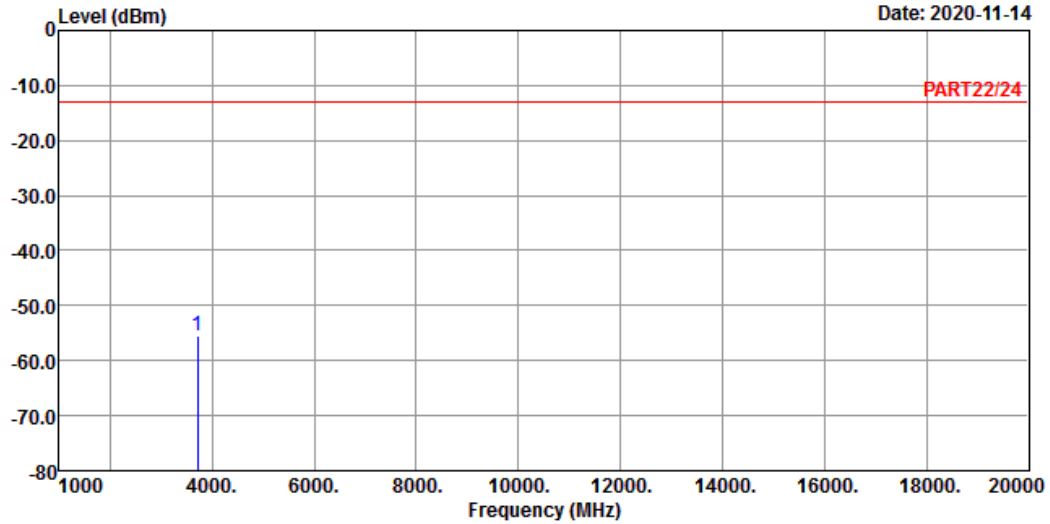
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.51	-48.58	-13.00	-6.93	-42.51	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 25 QPSK\_5M Link\_L-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.62	-48.69	-13.00	-6.93	-42.62	Peak

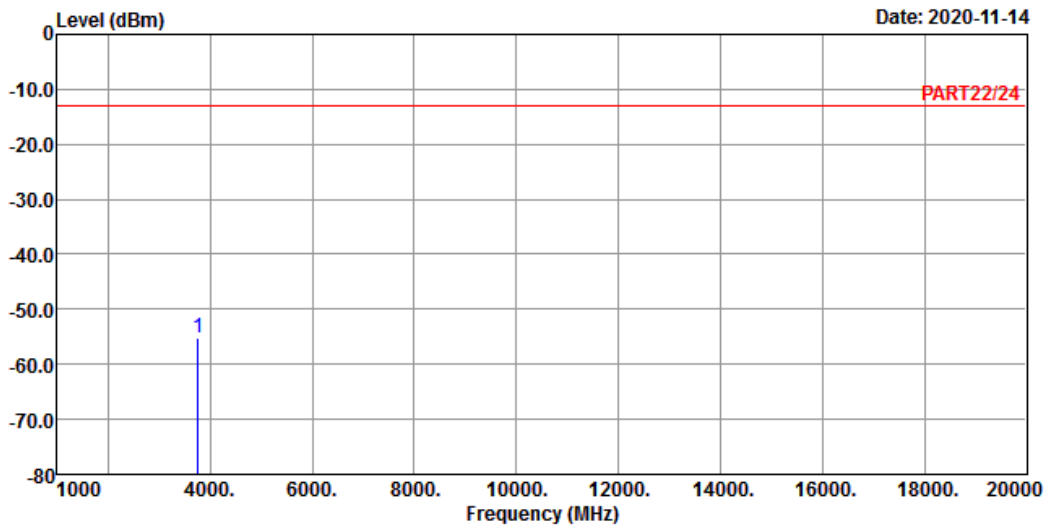
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 25 QPSK\_5M Link\_M-CH  
 Tested by: Getaz Yang

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

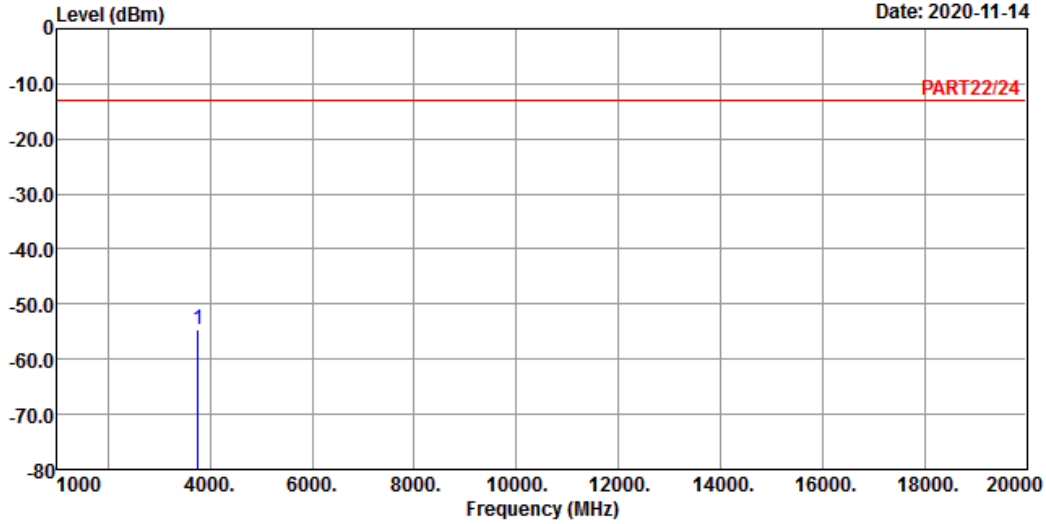
1 pp 3765.00 -55.35 -48.75 -13.00 -6.60 -42.35 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 25 QPSK\_5M Link\_M-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-54.61	-48.01	-13.00	-6.60	-41.61	Peak



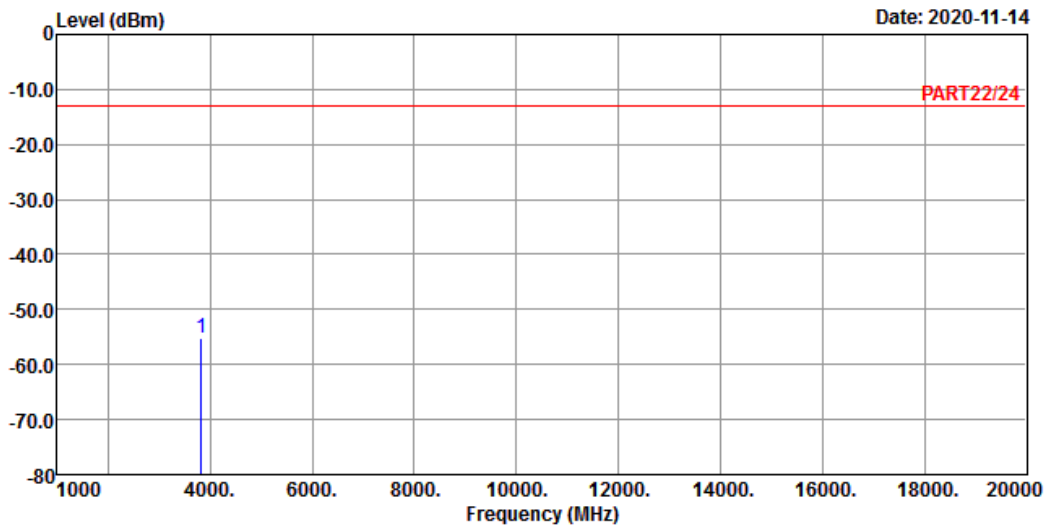
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 25 QPSK\_5M Link\_H-CH  
 Tested by: Getaz Yang

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

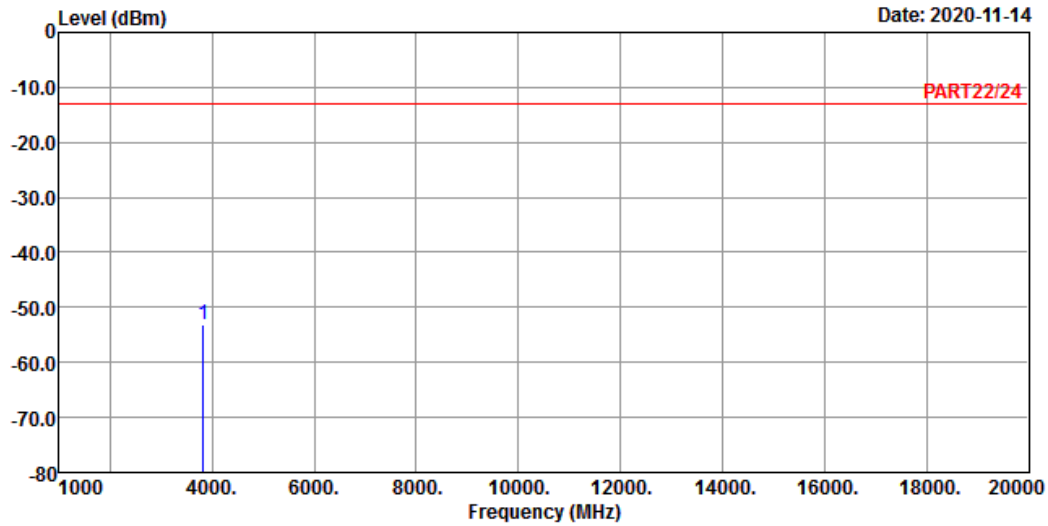
1 pp 3825.00 -55.26 -48.89 -13.00 -6.37 -42.26 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 25 QPSK\_5M Link\_H-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3825.00	-53.15	-46.78	-13.00	-6.37	-40.15	Peak

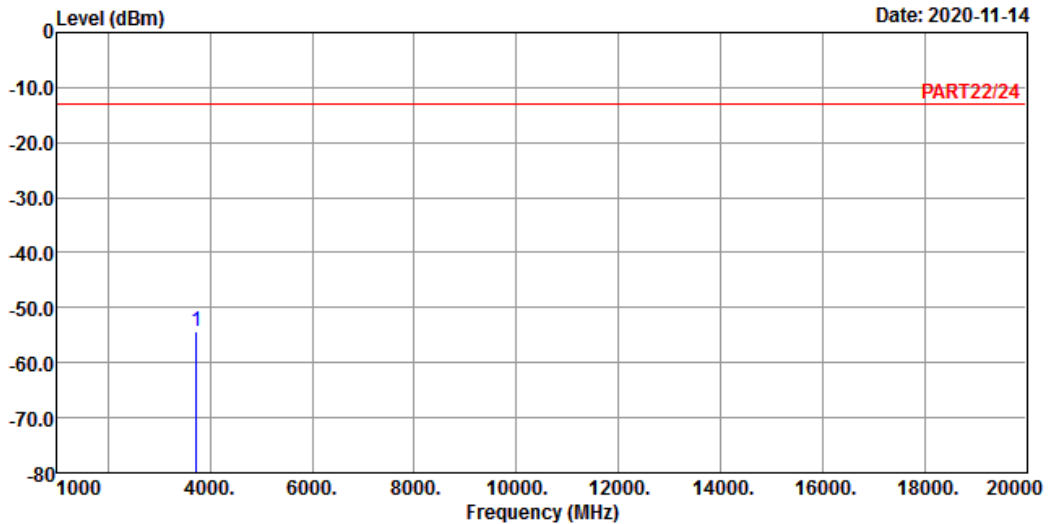
Channel Bandwidth: 20 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : LTE Band 25 QPSK\_20M Link\_L-CH  
Tested by: Getaz Yang

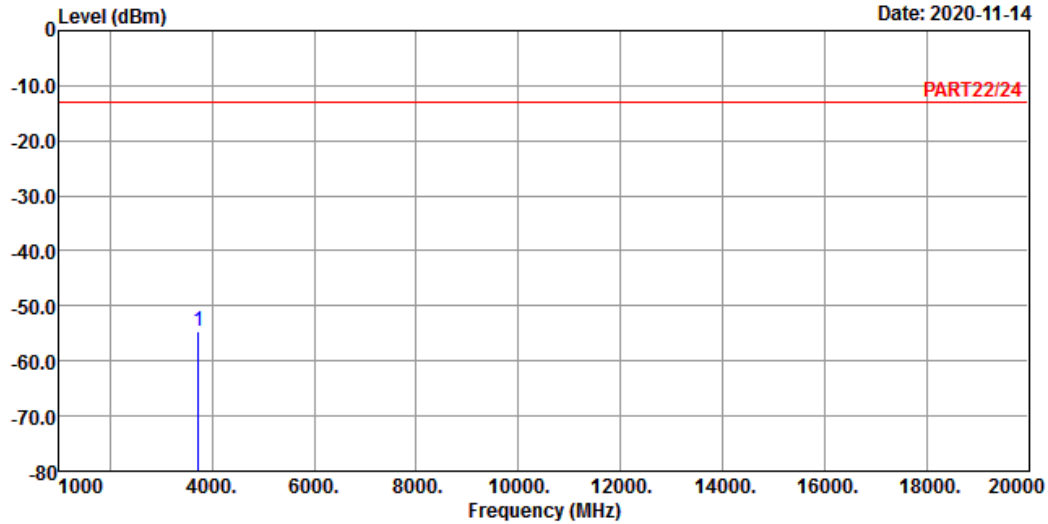
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-54.42	-47.60	-13.00	-6.82	-41.42	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band 25 QPSK\_20M Link\_L-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-54.56	-47.74	-13.00	-6.82	-41.56	Peak

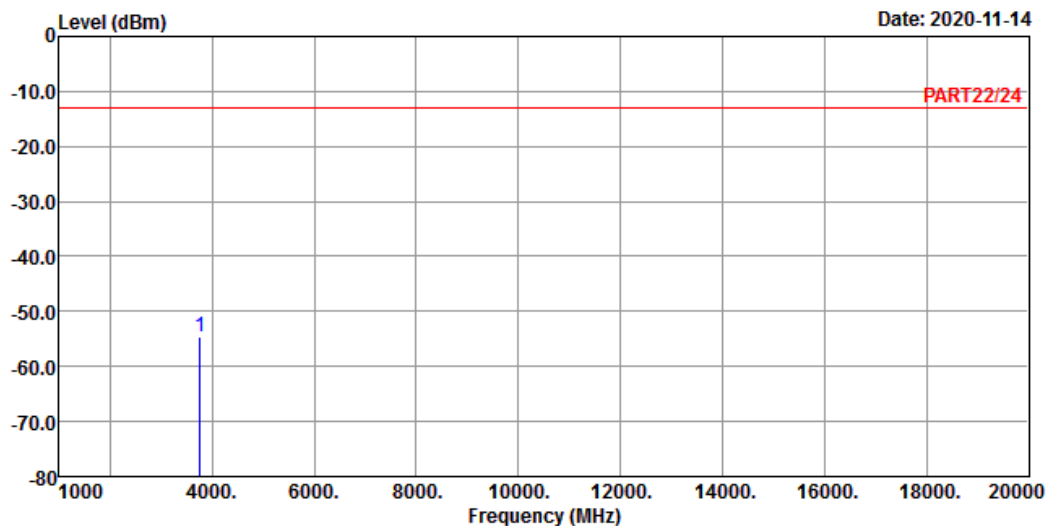
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 25 QPSK\_20M Link\_M-CH  
 Tested by: Getaz Yang

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

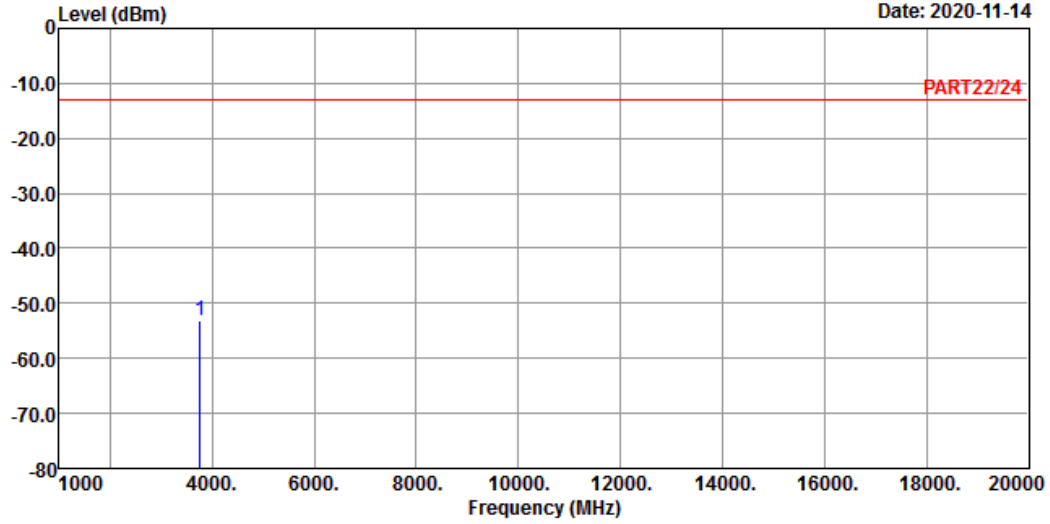
1 pp 3765.00 -54.55 -47.95 -13.00 -6.60 -41.55 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 25 QPSK\_20M Link\_M-CH  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-53.02	-46.42	-13.00	-6.60	-40.02	Peak

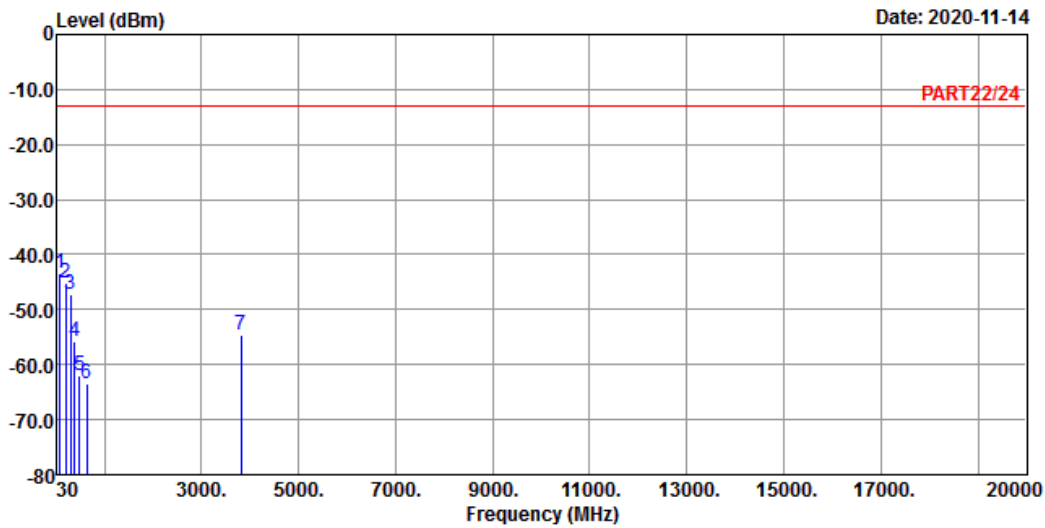
# High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 25 QPSK\_20M Link\_  
 Tested by: Getaz Yang

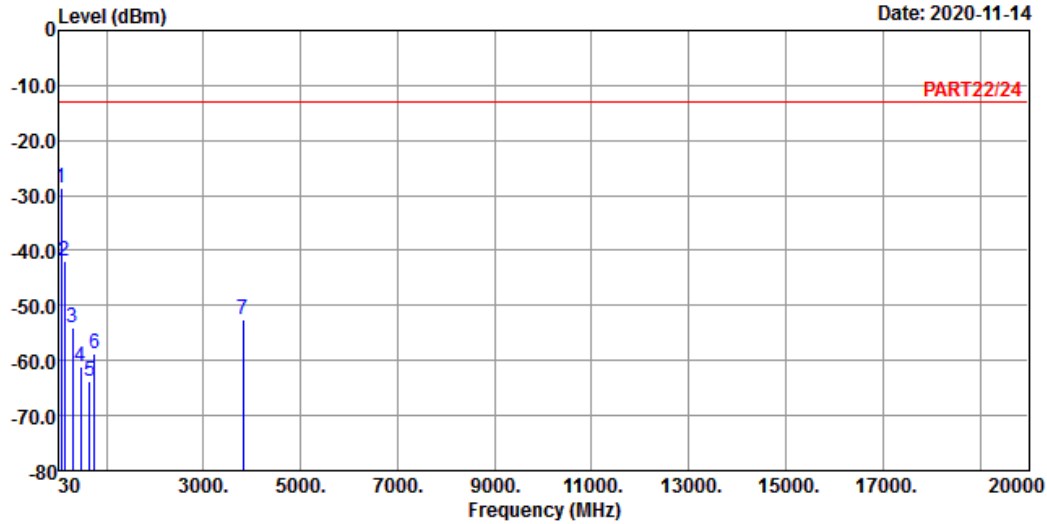
	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	83.35	-43.43	-32.48	-13.00	-10.95	-30.43	Peak
2	203.63	-45.09	-37.23	-13.00	-7.86	-32.09	Peak
3	309.36	-47.21	-40.35	-13.00	-6.86	-34.21	Peak
4	385.99	-55.74	-49.71	-13.00	-6.03	-42.74	Peak
5	485.90	-61.94	-57.06	-13.00	-4.88	-48.94	Peak
6	642.07	-63.53	-62.67	-13.00	-0.86	-50.53	Peak
7	3810.00	-54.70	-48.30	-13.00	-6.40	-41.70	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 25 QPSK\_20M Link  
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	71.71	-28.62	-19.77	-13.00	-8.85	-15.62	Peak
2	143.49	-41.99	-33.73	-13.00	-8.26	-28.99	Peak
3	307.42	-54.02	-47.13	-13.00	-6.89	-41.02	Peak
4	465.53	-60.99	-55.73	-13.00	-5.26	-47.99	Peak
5	656.62	-63.65	-62.87	-13.00	-0.78	-50.65	Peak
6	746.83	-58.70	-59.52	-13.00	0.82	-45.70	Peak
7	3810.00	-52.49	-46.09	-13.00	-6.40	-39.49	Peak



## 5 Pictures of Test Arrangements

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

## Appendix – Information of 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:

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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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