

FCC Test Report

(PART 24)

Report No.: RF181011C15-1

FCC ID: 2AIBC-ENJOYNOW

Test Model: TLP201

Received Date: Oct. 11, 2018

Test Date: Nov. 15, 2018 ~ Nov. 28, 2018

Issued Date: Apr. 11, 2019

Applicant: The Light Phone Inc

Address: 49 Bogart St #44 Brooklyn New York United States 11206

Manufacturer: The Light Phone Inc

Address: 19 Morris Ave, Brooklyn, NY 11205

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
(R.O.C)

Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City
33383, Taiwan (R.O.C)

FCC Registration /

Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF181011C15-1	Original Release	Apr. 11, 2019

1 Certificate of Conformity

Product: Light Phone 2

Brand: Light

Test Model: TLP201

Sample Status: Engineering Sample

Applicant: The Light Phone Inc

Test Date: Nov. 15, 2018 ~ Nov. 28, 2018

Standards: FCC Part 24, Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :  , **Date:** Apr. 11, 2019

Ivonne Wu / Supervisor

Approved by :  , **Date:** Apr. 11, 2019

Dylan Chiou / Project Engineer

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.
2.1046 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 -27.29 dB at 7440.00 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	Expended Uncertainty (k=2) (±)
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. 16, 2018	Mar. 15, 2019
Spectrum Analyzer Agilent	N9010A	MY56070348	Sep. 06, 2018	Sep. 05, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSW26	102023	Oct. 11, 2018	Oct. 10, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	148	Dec. 13, 2017	Dec. 12, 2018
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2017	Dec. 11, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
Double Ridge Guide Horn Antenna EMCO	3115	5619	Dec. 12, 2017	Dec. 11, 2018
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 2019
MXG Vector signal generator Agilent	N5182B	MY53052282	Dec. 28, 2017	Dec. 27, 2018
Preamplifier EMCI	EMC 012645	980115	Oct. 12, 2018	Oct. 11, 2019
Preamplifier EMCI	EMC 330H	980112	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-800 0&3000	140811+170717	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 12, 2018	Oct. 11, 2019
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
Universal Radio Communication Tester R&S	CMU200	123112	Dec. 28, 2017	Dec. 27, 2018
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019
DC Power Supply Topward	33010D	807748	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The IC Site Registration No. is 7450F-10.

3 General Information

3.1 General Description of EUT

Product	Light Phone 2	
Brand	Light	
Test Model	TLP201	
Status of EUT	Engineering Sample	
Power Supply Rating	5.0 Vdc (adapter) 3.8 Vdc (battery)	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	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
Max. EIRP Power	WCDMA	41.88 mW
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	32.51 mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	34.43 mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	36.31 mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	38.37 mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	40.55 mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	42.56 mW
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	35.48 mW
	LTE Band 25 (Channel Bandwidth: 3 MHz)	38.37 mW
	LTE Band 25 (Channel Bandwidth: 5 MHz)	40.18 mW
	LTE Band 25 (Channel Bandwidth: 10 MHz)	43.05 mW
	LTE Band 25 (Channel Bandwidth: 15 MHz)	45.29 mW
	LTE Band 25 (Channel Bandwidth: 20 MHz)	47.53 mW

Emission Designator	WCDMA	4M18F9W
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1M09D7W
	LTE Band 2 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 2 (Channel Bandwidth: 5 MHz)	4M50D7W
	LTE Band 2 (Channel Bandwidth: 10 MHz)	8M98D7W
	LTE Band 2 (Channel Bandwidth: 15 MHz)	13M5D7W
	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)	4M50D7W
	LTE Band 25 (Channel Bandwidth: 10 MHz)	8M98D7W
	LTE Band 25 (Channel Bandwidth: 15 MHz)	13M5G7D
	LTE Band 25 (Channel Bandwidth: 20 MHz)	18M0D7W
	Antenna Type	PIFA Antenna with -6 dBi gain (Max.) / -8.1 dBi gain (Aux.)
	Accessory Device	Refer to Note as below
	Data Cable Supplied	Refer to Note as below

Note:

1. There're 2 colors for EUT listed as below

Brand	Model	Color	Description
Light	TLP201	Black	Different colors are for marketing purpose
		Gray	

2. The EUT contains following accessory devices.

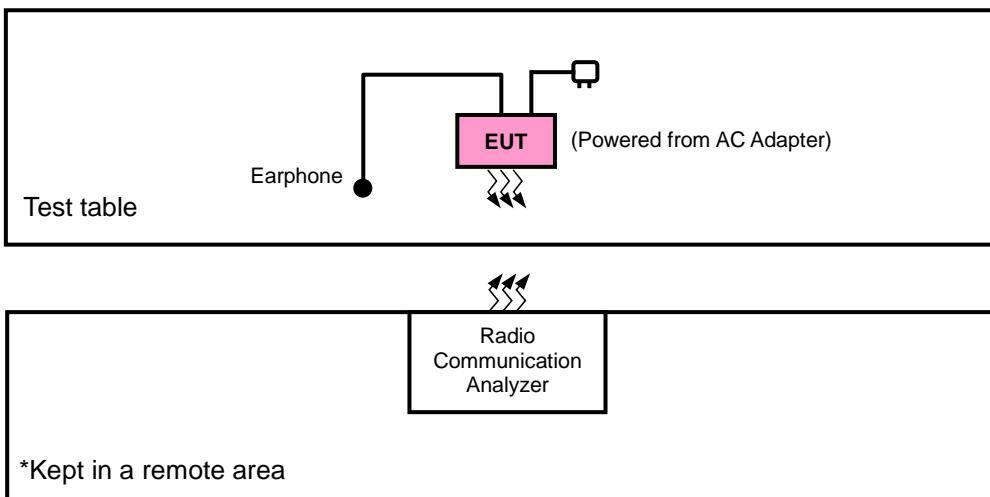
Product	Brand	Model	Description
USB Cable 1 (Black)	UDE	LP2	1 m cable P/N.: 410-4102000001
USB Cable 2 (Gray)	UDE	LP2	1 m cable P/N.: 410-4101000001
Battery	ZHENGZHOU BAK Battery Co. Ltd.	V304556P	3.8 Vdc

* The USB cables have the same layout, circuit, and components, but different P/N and color.

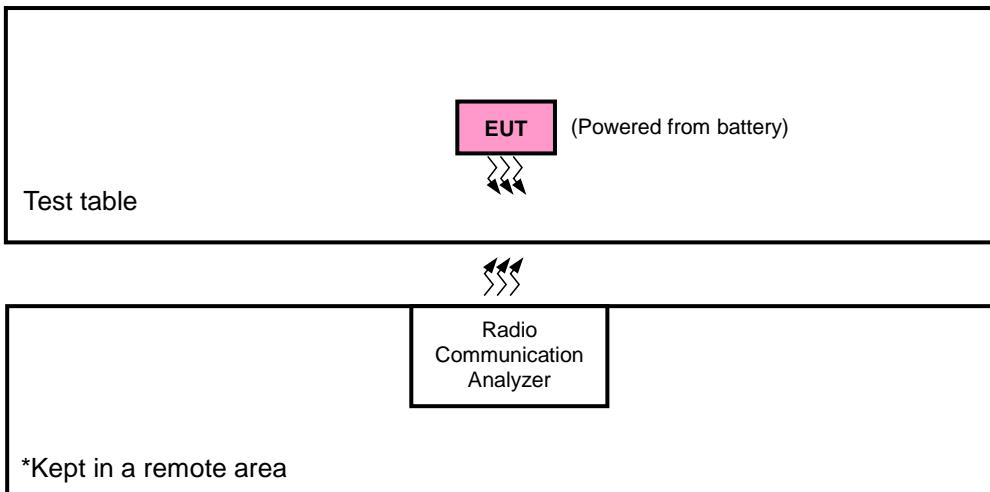
3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.I.R.P. 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.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Adapter	SONY	AC-0060-EU	N/A	N/A
2.	Earphone	N/A	N/A	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A
2.	N/A

Note:

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

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-axis
LTE Band 2	Z-plane	X-axis
LTE Band 25	Z-plane	X-axis

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

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 / 7 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	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	18607 to 19193	18607, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18615, 19185	3 MHz	QPSK	1 RB / 7 RB Offset
		18625 to 19175	18625, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18650, 19150	10 MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18675, 19125	15 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 19100	20 MHz	QPSK	1 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 / 7 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

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	18607 to 19193	18607	1.4 MHz	QPSK	1 RB / 0 RB Offset
			19193	1.4 MHz		6 RB / 0 RB Offset
		18615 to 19185	18615	3 MHz	QPSK	1 RB / 5 RB Offset
			19185	3 MHz		6 RB / 0 RB Offset
		18625 to 19175	18625	5 MHz	QPSK	1 RB / 0 RB Offset
			19175	5 MHz		25 RB / 0 RB Offset
		18650 to 19150	18650	10 MHz	QPSK	1 RB / 24 RB Offset
			19150	10 MHz		25 RB / 0 RB Offset
		18675 to 19125	18675	15 MHz	QPSK	1 RB / 0 RB Offset
			19125	15 MHz		75 RB / 0 RB Offset
		18700 to 19100	18700	20 MHz	QPSK	1 RB / 74 RB Offset
			19100	20 MHz		75 RB / 0 RB Offset
		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 / 7 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:

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

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 / 24 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 49 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	50 RB / 0 RB Offset
-	Frequency Stability	26047 to 26683	26047, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26055, 26675	3 MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26665	5 MHz	QPSK	1 RB / 24 RB Offset
		26090 to 26640	26090, 26640	10 MHz	QPSK	1 RB / 49 RB Offset
		26115 to 26615	26115, 26615	15 MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26590	20 MHz	QPSK	1 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 / 24 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 49 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
			26683	1.4 MHz		6 RB / 0 RB Offset
		26055 to 26675	26055	3 MHz	QPSK	1 RB / 5 RB Offset
			26675	3 MHz		6 RB / 0 RB Offset
		26065 to 26665	26065	5 MHz	QPSK	1 RB / 0 RB Offset
			26665	5 MHz		25 RB / 0 RB Offset
		26090 to 26640	26090	10 MHz	QPSK	1 RB / 24 RB Offset
			26640	10 MHz		25 RB / 0 RB Offset
		26115 to 26615	26115	15 MHz	QPSK	1 RB / 0 RB Offset
			26615	15 MHz		75 RB / 0 RB Offset
		26140 to 26590	26140	20 MHz	QPSK	1 RB / 74 RB Offset
			26590	20 MHz		75 RB / 0 RB Offset
			1 RB / 0 RB Offset			
			100 RB / 0 RB Offset			
			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 / 24 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK	1 RB / 49 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	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 / 24 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.
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.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	26 deg. C, 58 % RH	3.8 Vdc	Thomas Wei
Modulation Characteristics	26 deg. C, 58 % RH	3.8 Vdc	Wayne Lin
Frequency Stability	26 deg. C, 58 % RH	3.8 Vdc	Wayne Lin
Occupied Bandwidth	26 deg. C, 58 % RH	3.8 Vdc	Wayne Lin
Band Edge	26 deg. C, 58 % RH	3.8 Vdc	Wayne Lin
Peak to Average Ratio	26 deg. C, 58 % RH	3.8 Vdc	Wayne Lin
Conducted Emission	26 deg. C, 58 % RH	3.8 Vdc	Wayne Lin
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Thomas Wei

3.4 EUT Operating Conditions

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

3.5 General Description of Applied Standards

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

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

ANSI 63.2 -1996

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 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 and VBW is 5 MHz for WCDMA and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

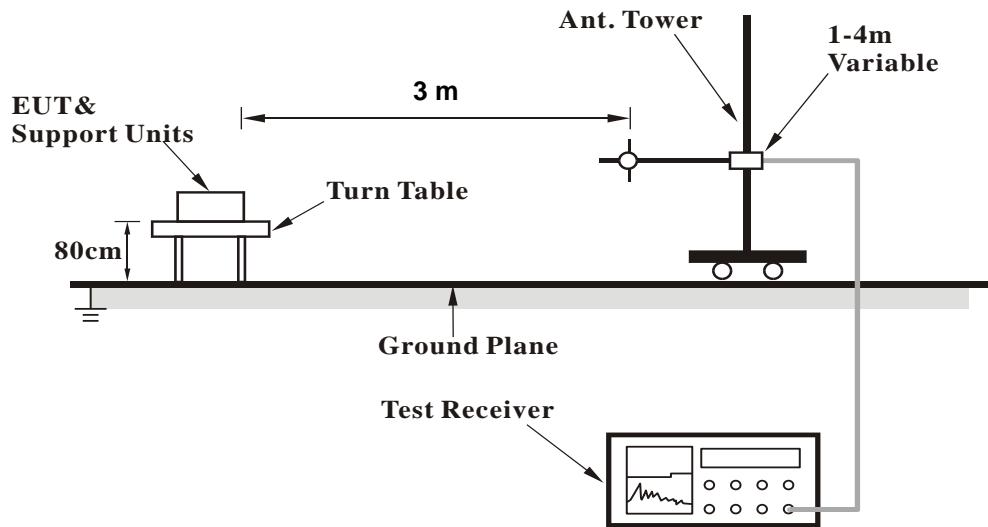
Conducted Power Measurement:

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.

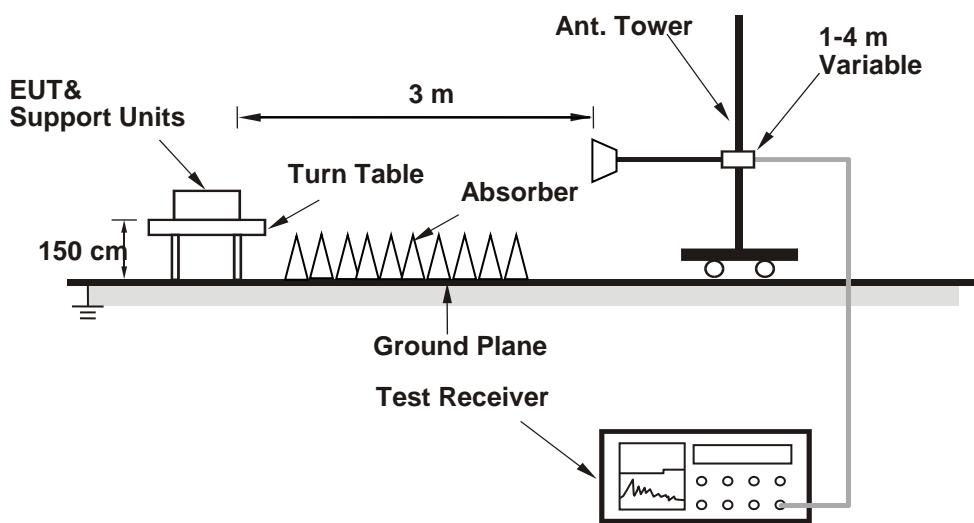
4.1.3 Test Setup

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	22.93	22.82	22.81
HSDPA Subtest-1	21.91	21.84	21.88
HSDPA Subtest-2	21.83	21.89	21.95
HSDPA Subtest-3	21.33	21.39	21.47
HSDPA Subtest-4	21.34	21.40	21.47
DC-HSDPA Subtest-1	21.88	21.78	21.80
DC-HSDPA Subtest-2	21.80	21.83	21.87
DC-HSDPA Subtest-3	21.30	21.33	21.39
DC-HSDPA Subtest-4	21.31	21.34	21.39
HSUPA Subtest-1	21.47	21.90	22.01
HSUPA Subtest-2	20.82	20.55	20.79
HSUPA Subtest-3	20.85	20.68	20.85
HSUPA Subtest-4	20.98	20.96	20.91
HSUPA Subtest-5	22.1	22.0	21.9

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 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Frequency (MHz)</th> <td>1857.5</td> <td>1880.0</td> <td>1902.5</td> <th data-kind="ghost"></th>					Frequency (MHz)	1857.5	1880.0	1902.5		
20M	QPSK	1	0	22.91	22.96	22.95	0	15M	QPSK	1	0	22.85	22.93	22.89	0
		1	50	22.83	22.88	22.87	0			1	37	22.82	22.88	22.78	0
		1	99	22.76	22.81	22.80	0			1	74	22.66	22.71	22.72	0
		50	0	21.86	21.91	21.90	1			36	0	21.81	21.84	21.81	1
		50	25	21.93	21.98	21.97	1			36	19	21.84	21.93	21.94	1
	16QAM	50	50	21.90	21.95	21.94	1			36	39	21.80	21.89	21.92	1
		100	0	21.91	21.96	21.95	1			75	0	21.83	21.88	21.92	1
		1	0	21.91	21.92	21.94	1		16QAM	1	0	21.79	21.85	21.78	1
		1	50	21.76	21.78	21.78	1			1	37	21.67	21.74	21.82	1
		1	99	21.66	21.76	21.73	1			1	74	21.73	21.68	21.72	1
10M	QPSK	50	0	20.81	20.83	20.90	2			36	0	20.77	20.84	20.82	2
		50	25	20.87	20.98	20.94	2			36	19	20.87	20.88	20.85	2
		50	50	20.80	20.86	20.84	2			36	39	20.83	20.85	20.79	2
		100	0	20.81	20.92	20.88	2			75	0	20.82	20.80	20.87	2
	16QAM	1	0	21.91	21.92	21.94	1			1	0	18625	18900	19175	
		1	50	18650	18900	19150				1	37	1852.5	1880.0	1907.5	
		1	99	1855.0	1880.0	1905.0				1	74	18625	18900	19175	
		25	0	21.68	21.68	21.74	1			12	0	1855.0	1880.0	1907.5	
		25	12	21.78	21.93	21.91	1			12	6	1860.0	1890.0	19175	
3M	QPSK	25	25	21.78	21.72	21.87	1			12	13	18625	18900	19175	
		50	0	21.79	21.85	21.87	1			25	0	18625	18900	19175	
		1	0	21.67	21.69	21.68	1			1	0	1860.0	1890.0	19175	
		1	24	21.52	21.63	21.64	1			1	12	1860.0	1890.0	19175	
		1	49	21.52	21.62	21.66	1			1	24	1860.0	1890.0	19175	
	16QAM	25	0	20.67	20.67	20.71	2			12	0	1860.0	1890.0	19175	
		25	12	20.72	20.83	20.86	2			12	6	1860.0	1890.0	19175	
		25	25	20.63	20.74	20.92	2			12	13	1860.0	1890.0	19175	
		50	0	20.77	20.83	20.84	2			25	0	1860.0	1890.0	19175	
		1	0	22.80	22.75	22.80	0			1	0	1860.0	1890.0	19175	
1.4M	QPSK	1	7	22.72	22.73	22.83	0			1	2	1860.0	1890.0	19175	
		1	14	22.70	22.77	22.65	0			1	5	1860.0	1890.0	19175	
		8	0	21.78	21.85	21.87	1			3	0	1860.0	1890.0	19175	
		8	3	21.77	21.91	21.88	1			3	1	1860.0	1890.0	19175	
		8	7	21.86	21.82	21.74	1			3	3	1860.0	1890.0	19175	
	16QAM	15	0	21.83	21.91	21.90	1			6	0	1860.0	1890.0	19175	
		1	0	21.72	21.80	21.76	1			1	0	1860.0	1890.0	19175	
		1	7	21.68	21.77	21.70	1			1	2	1860.0	1890.0	19175	
		1	14	21.64	21.63	21.70	1			1	5	1860.0	1890.0	19175	
		8	0	20.79	20.80	20.78	2			3	0	1860.0	1890.0	19175	
3M	QPSK	8	3	20.69	20.89	20.73	2			3	1	1860.0	1890.0	19175	
		8	7	20.73	20.69	20.80	2			3	3	1860.0	1890.0	19175	
		15	0	20.76	20.78	20.70	2			6	0	1860.0	1890.0	19175	
	16QAM	1	0	22.80	22.75	22.80	0			1	0	22.75	22.81	22.93	0
		1	7	22.72	22.73	22.83	0			1	2	22.66	22.72	22.77	0
		1	14	22.70	22.77	22.65	0			1	5	22.67	22.69	22.65	0
		8	0	21.78	21.85	21.87	1			3	0	22.68	22.82	22.80	0
		8	3	21.77	21.91	21.88	1			3	1	22.83	22.89	22.92	0
3M	QPSK	8	7	21.86	21.82	21.74	1			3	3	22.68	22.73	22.89	0
		15	0	21.83	21.91	21.90	1			6	0	21.79	21.89	21.74	1
		1	0	21.72	21.80	21.76	1			1	0	21.72	21.80	21.64	1
		1	7	21.68	21.77	21.70	1			1	2	21.56	21.75	21.66	1
		1	14	21.64	21.63	21.70	1			1	5	21.72	21.65	21.59	1
	16QAM	8	0	20.79	20.80	20.78	2			3	0	21.80	21.76	21.79	1
		8	3	20.69	20.89	20.73	2			3	1	21.69	21.88	21.80	1
		8	7	20.73	20.69	20.80	2			3	3	21.69	21.84	21.75	1
		15	0	20.76	20.78	20.70	2			6	0	20.75	20.82	20.78	2
		1	0	22.80	22.75	22.80	0			1	0	22.80	22.81	22.93	0

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 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Frequency (MHz)</th> <td>1857.5</td> <td>1882.5</td> <td>1907.5</td> <th data-kind="ghost"></th>					Frequency (MHz)	1857.5	1882.5	1907.5		
20M	QPSK	1	0	23.48	23.46	23.44	0	15M	QPSK	1	0	23.41	23.39	23.39	0
		1	50	23.41	23.39	23.37	0			1	37	23.35	23.30	23.27	0
		1	99	23.40	23.38	23.36	0			1	74	23.33	23.34	23.32	0
		50	0	22.49	22.47	22.45	1			36	0	22.46	22.43	22.37	1
		50	25	22.46	22.44	22.42	1			36	19	22.39	22.41	22.33	1
	16QAM	50	50	22.45	22.43	22.41	1			36	39	22.41	22.41	22.41	1
		100	0	22.48	22.46	22.44	1			75	0	22.39	22.45	22.39	1
		1	0	22.45	22.41	22.34	1		16QAM	1	0	22.40	22.36	22.27	1
		1	50	22.41	22.39	22.34	1			1	37	22.39	22.29	22.35	1
		1	99	22.37	22.29	22.27	1			1	74	22.37	22.26	22.23	1
10M	QPSK	50	0	21.47	21.47	21.43	2			36	0	21.38	21.38	21.37	2
		50	25	21.46	21.36	21.37	2			36	19	21.38	21.27	21.28	2
		50	50	21.45	21.42	21.31	2			36	39	21.36	21.30	21.35	2
		100	0	21.43	21.46	21.39	2			75	0	21.36	21.35	21.31	2
	16QAM	1	0	22.45	22.41	22.34	1			1	0	22.40	22.36	22.27	1
		1	24	22.35	23.26	23.26	0			1	12	23.31	23.23	23.17	0
		1	49	23.37	23.25	23.12	0			1	24	23.32	23.19	23.15	0
		25	0	22.39	22.24	22.36	1			12	0	22.32	22.24	22.22	1
		25	12	22.34	22.35	22.27	1			12	6	22.30	22.35	22.21	1
3M	QPSK	25	25	22.34	22.31	22.39	1			12	13	22.30	22.35	22.30	1
		50	0	22.31	22.34	22.20	1			25	0	22.40	22.33	22.17	1
		1	0	22.21	22.25	22.25	1			1	0	22.32	22.39	22.27	1
		1	24	22.29	22.28	22.25	1			1	12	22.18	22.26	22.16	1
		1	49	22.25	22.29	22.23	1			1	24	22.23	22.35	22.13	1
	16QAM	25	0	21.37	21.32	21.21	2			12	0	21.20	21.22	21.20	2
		25	12	21.22	21.34	21.31	2			12	6	21.44	21.25	21.20	2
		25	25	21.25	21.22	21.31	2			12	13	21.30	21.27	21.17	2
		50	0	21.34	21.28	21.17	2			25	0	21.34	21.24	21.32	2
		1	0	23.37	23.38	23.30	0	1.4M	QPSK	1	0	23.29	23.38	23.25	0
3M	QPSK	1	7	23.32	23.29	23.25	0			1	2	23.23	23.28	23.26	0
		1	14	23.22	23.27	23.14	0			1	5	23.32	23.35	23.24	0
		8	0	22.27	22.40	22.24	1			3	0	23.36	23.33	23.34	0
		8	3	22.33	22.30	22.23	1			3	1	23.29	23.27	23.22	0
		8	7	22.25	22.29	22.33	1			3	3	23.40	23.37	23.27	0
	16QAM	15	0	22.40	22.38	22.36	1			6	0	22.29	22.34	22.32	1
		1	0	22.31	22.32	22.26	1			1	0	22.25	22.23	22.24	1
		1	7	22.29	22.14	22.25	1			1	2	22.25	22.16	22.20	1
		1	14	22.25	22.25	22.25	1			1	5	22.15	22.21	22.31	1
		8	0	21.38	21.38	21.32	2			3	0	22.35	22.30	22.34	1
		8	3	21.31	21.30	21.19	2			3	1	22.38	22.19	22.17	1
		8	7	21.22	21.29	21.26	2			3	3	22.27	22.26	22.24	1
		15	0	21.14	21.19	21.24	2			6	0	21.25	21.24	21.28	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	-25.38	36.57	11.19	13.15	H
	9400	1880.0	-25.97	37.22	11.25	13.34	
	9538	1907.6	-25.98	37.18	11.20	13.18	
	9262	1852.4	-21.49	37.65	16.16	41.30	V
	9400	1880.0	-21.36	37.58	16.22	41.88	
	9538	1907.6	-21.38	37.48	16.10	40.74	

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	-27.25	36.57	9.32	8.55	H
	18900	1880.0	-27.59	37.22	9.63	9.18	
	19193	1909.3	-27.69	37.18	9.49	8.89	
	18607	1850.7	-23.05	37.65	14.60	28.84	V
	18900	1880.0	-22.46	37.58	15.12	32.51	
	19193	1909.3	-22.54	37.48	14.94	31.19	

Channel Bandwidth: 1.4 MHz / 16QAM

Z	18607	1850.7	-28.47	36.57	8.10	6.46	H
	18900	1880.0	-28.67	37.22	8.55	7.16	
	19193	1909.3	-28.66	37.18	8.52	7.11	
	18607	1850.7	-23.91	37.65	13.74	23.66	V
	18900	1880.0	-23.49	37.58	14.09	25.64	
	19193	1909.3	-23.77	37.48	13.71	23.50	

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	-26.98	36.57	9.59	9.10	H
	18900	1880.0	-27.27	37.22	9.95	9.89	
	19185	1908.5	-27.39	37.18	9.79	9.53	
	18615	1851.5	-22.70	37.65	14.95	31.26	V
	18900	1880.0	-22.21	37.58	15.37	34.43	
	19185	1908.5	-22.31	37.48	15.17	32.89	
Channel Bandwidth: 3 MHz / 16QAM							
Z	18615	1851.5	-28.19	36.57	8.38	6.89	H
	18900	1880.0	-28.37	37.22	8.85	7.67	
	19185	1908.5	-28.37	37.18	8.81	7.60	
	18615	1851.5	-23.67	37.65	13.98	25.00	V
	18900	1880.0	-23.27	37.58	14.31	26.98	
	19185	1908.5	-23.46	37.48	14.02	25.23	

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	-26.72	36.57	9.85	9.66	H
	18900	1880.0	-26.99	37.22	10.23	10.54	
	19175	1907.5	-27.07	37.18	10.11	10.26	
	18625	1852.5	-22.38	37.65	15.27	33.65	V
	18900	1880.0	-21.98	37.58	15.60	36.31	
	19175	1907.5	-22.09	37.48	15.39	34.59	
Channel Bandwidth: 5 MHz / 16QAM							
Z	18625	1852.5	-27.87	36.57	8.70	7.41	H
	18900	1880.0	-28.07	37.22	9.15	8.22	
	19175	1907.5	-28.16	37.18	9.02	7.98	
	18625	1852.5	-23.42	37.65	14.23	26.49	V
	18900	1880.0	-22.97	37.58	14.61	28.91	
	19175	1907.5	-23.24	37.48	14.24	26.55	

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	-26.41	36.57	10.16	10.38	H
	18900	1880.0	-26.72	37.22	10.50	11.22	
	19150	1905.0	-26.73	37.18	10.45	11.09	
	18650	1855.0	-22.04	37.65	15.61	36.39	V
	18900	1880.0	-21.74	37.58	15.84	38.37	
	19150	1905.0	-21.78	37.48	15.70	37.15	
Channel Bandwidth: 10 MHz / 16QAM							
Z	18650	1855.0	-27.58	36.57	8.99	7.93	H
	18900	1880.0	-27.79	37.22	9.43	8.77	
	19150	1905.0	-27.91	37.18	9.27	8.45	
	18650	1855.0	-23.19	37.65	14.46	27.93	V
	18900	1880.0	-22.77	37.58	14.81	30.27	
	19150	1905.0	-22.93	37.48	14.55	28.51	

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	-26.08	36.57	10.49	11.19	H
	18900	1880.0	-26.48	37.22	10.74	11.86	
	19125	1902.5	-26.52	37.18	10.66	11.64	
	18675	1857.5	-21.73	37.65	15.92	39.08	V
	18900	1880.0	-21.50	37.58	16.08	40.55	
	19125	1902.5	-21.48	37.48	16.00	39.81	
Channel Bandwidth: 15 MHz / 16QAM							
Z	18675	1857.5	-27.26	36.57	9.31	8.53	H
	18900	1880.0	-27.51	37.22	9.71	9.35	
	19125	1902.5	-27.68	37.18	9.50	8.91	
	18675	1857.5	-22.96	37.65	14.69	29.44	V
	18900	1880.0	-22.44	37.58	15.14	32.66	
	19125	1902.5	-22.70	37.48	14.78	30.06	

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	-25.77	36.57	10.80	12.02	H
	18900	1880.0	-26.28	37.22	10.94	12.42	
	19100	1900.0	-26.29	37.18	10.89	12.27	
	18700	1860.0	-21.48	37.65	16.17	41.40	V
	18900	1880.0	-21.29	37.58	16.29	42.56	
	19100	1900.0	-21.26	37.48	16.22	41.88	
Channel Bandwidth: 20 MHz / 16QAM							
Z	18700	1860.0	-26.95	36.57	9.62	9.16	H
	18900	1880.0	-27.25	37.22	9.97	9.93	
	19100	1900.0	-27.43	37.18	9.75	9.44	
	18700	1860.0	-22.71	37.65	14.94	31.19	V
	18900	1880.0	-22.24	37.58	15.34	34.20	
	19100	1900.0	-22.38	37.48	15.10	32.36	

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	-25.25	36.57	11.32	13.55	H
	26365	1882.5	-26.13	37.22	11.09	12.85	
	26683	1914.3	-28.20	39.09	10.89	12.27	
	26047	1850.7	-22.15	37.65	15.50	35.48	V
	26365	1882.5	-22.26	37.58	15.32	34.04	
	26683	1914.3	-22.61	37.92	15.31	33.96	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	26047	1850.7	-26.22	36.57	10.35	10.84	H
	26365	1882.5	-27.19	37.22	10.03	10.07	
	26683	1914.3	-28.97	39.09	10.12	10.28	
	26047	1850.7	-23.37	37.65	14.28	26.79	V
	26365	1882.5	-23.31	37.58	14.27	26.73	
	26683	1914.3	-23.67	37.92	14.25	26.61	

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	-24.99	36.57	11.58	14.39	H
	26365	1882.5	-25.86	37.22	11.36	13.68	
	26675	1913.5	-27.87	39.11	11.24	13.30	
	26055	1851.5	-21.81	37.65	15.84	38.37	V
	26365	1882.5	-21.96	37.58	15.62	36.48	
	26675	1913.5	-22.32	37.93	15.61	36.39	
Channel Bandwidth: 3 MHz / 16QAM							
Z	26055	1851.5	-25.99	36.57	10.58	11.43	H
	26365	1882.5	-26.91	37.22	10.31	10.74	
	26675	1913.5	-28.72	39.11	10.39	10.94	
	26055	1851.5	-23.15	37.65	14.50	28.18	V
	26365	1882.5	-23.10	37.58	14.48	28.05	
	26675	1913.5	-23.44	37.93	14.49	28.12	

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	-24.77	36.57	11.80	15.14	H
	26365	1882.5	-25.60	37.22	11.62	14.52	
	26665	1912.5	-26.60	38.11	11.51	14.16	
	26065	1852.5	-21.61	37.65	16.04	40.18	V
	26365	1882.5	-21.65	37.58	15.93	39.17	
	26665	1912.5	-22.10	37.96	15.86	38.55	
Channel Bandwidth: 5 MHz / 16QAM							
Z	26065	1852.5	-25.68	36.57	10.89	12.27	H
	26365	1882.5	-26.60	37.22	10.62	11.53	
	26665	1912.5	-27.51	38.11	10.60	11.48	
	26065	1852.5	-22.87	37.65	14.78	30.06	V
	26365	1882.5	-22.86	37.58	14.72	29.65	
	26665	1912.5	-23.23	37.96	14.73	29.72	

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	-24.50	36.57	12.07	16.11	H
	26365	1882.5	-25.25	37.22	11.97	15.74	
	26640	1910.0	-26.36	38.19	11.83	15.24	
	26090	1855.0	-21.31	37.65	16.34	43.05	V
	26365	1882.5	-21.35	37.58	16.23	41.98	
	26640	1910.0	-22.06	38.15	16.09	40.64	
Channel Bandwidth: 10 MHz / 16QAM							
Z	26090	1855.0	-25.42	36.57	11.15	13.03	H
	26365	1882.5	-26.37	37.22	10.85	12.16	
	26640	1910.0	-27.30	38.19	10.89	12.27	
	26090	1855.0	-22.58	37.65	15.07	32.14	V
	26365	1882.5	-22.58	37.58	15.00	31.62	
	26640	1910.0	-23.17	38.15	14.98	31.48	

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	-24.20	36.57	12.37	17.26	H
	26365	1882.5	-25.03	37.22	12.19	16.56	
	26615	1907.5	-26.07	38.23	12.16	16.44	
	26115	1857.5	-21.09	37.65	16.56	45.29	V
	26365	1882.5	-21.10	37.58	16.48	44.46	
	26615	1907.5	-21.82	38.22	16.40	43.65	
Channel Bandwidth: 15 MHz / 16QAM							
Z	26115	1857.5	-25.15	36.57	11.42	13.87	H
	26365	1882.5	-26.10	37.22	11.12	12.94	
	26615	1907.5	-27.12	38.23	11.11	12.91	
	26115	1857.5	-22.32	37.65	15.33	34.12	V
	26365	1882.5	-22.35	37.58	15.23	33.34	
	26615	1907.5	-22.92	38.22	15.30	33.88	

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	-23.97	36.57	12.60	18.20	H
	26365	1882.5	-24.70	37.22	12.52	17.86	
	26590	1905.0	-26.25	38.72	12.47	17.66	
	26140	1860.0	-20.88	37.65	16.77	47.53	V
	26365	1882.5	-20.87	37.58	16.71	46.88	
	26590	1905.0	-20.91	37.56	16.65	46.24	
Channel Bandwidth: 20 MHz / 16QAM							
Z	26140	1860.0	-24.93	36.57	11.64	14.59	H
	26365	1882.5	-25.79	37.22	11.43	13.90	
	26590	1905.0	-27.35	38.72	11.37	13.71	
	26140	1860.0	-22.02	37.65	15.63	36.56	V
	26365	1882.5	-22.02	37.58	15.56	35.97	
	26590	1905.0	-22.04	37.56	15.52	35.65	

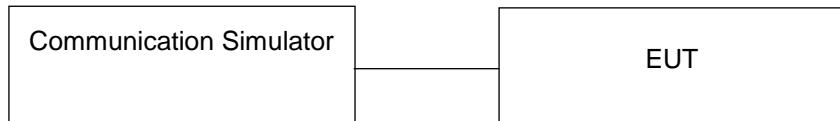
Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

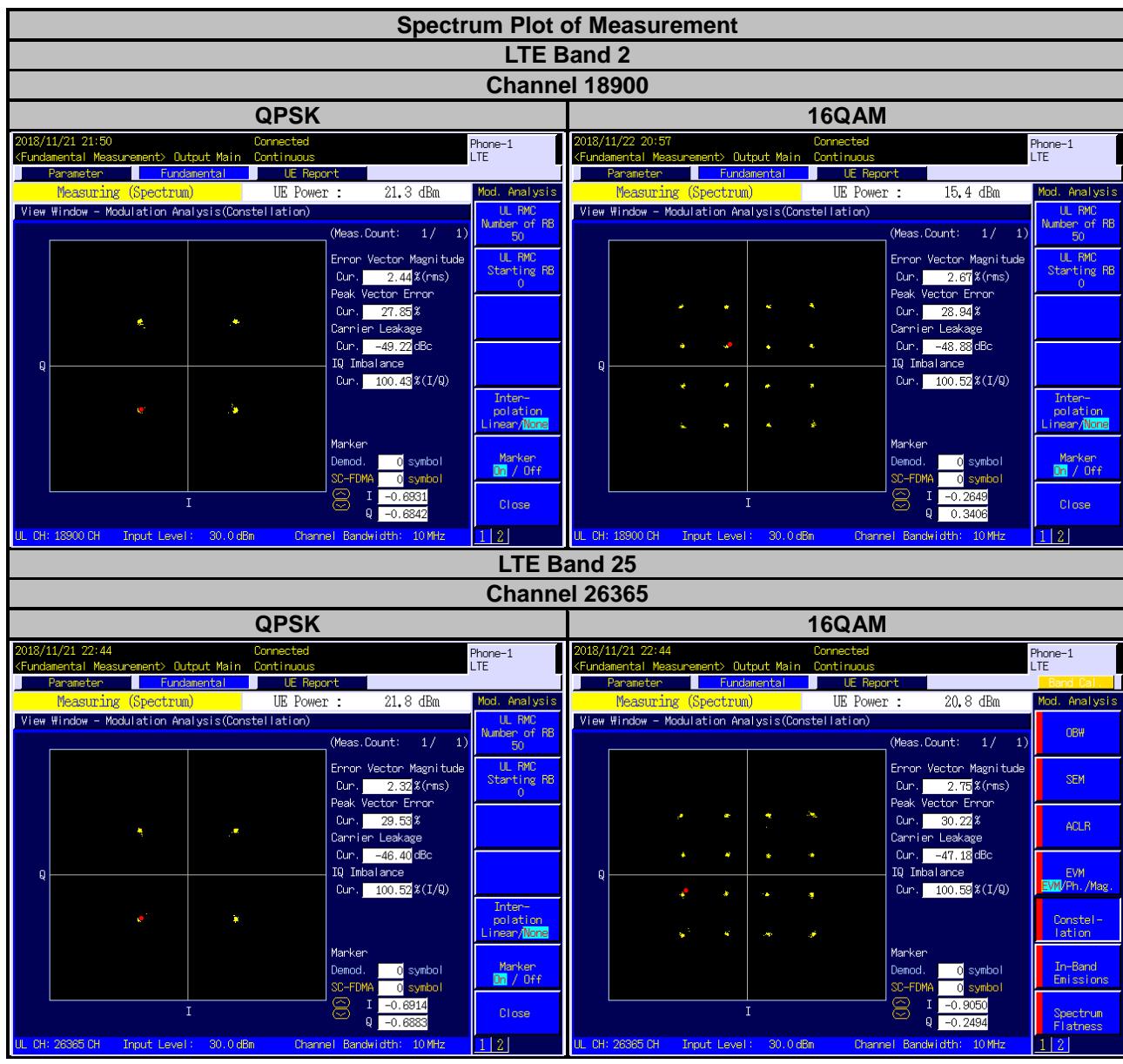
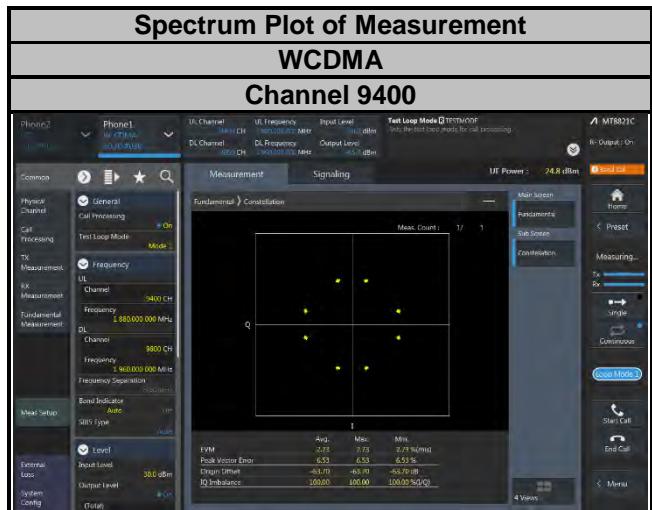
4.2.2 Test Setup



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

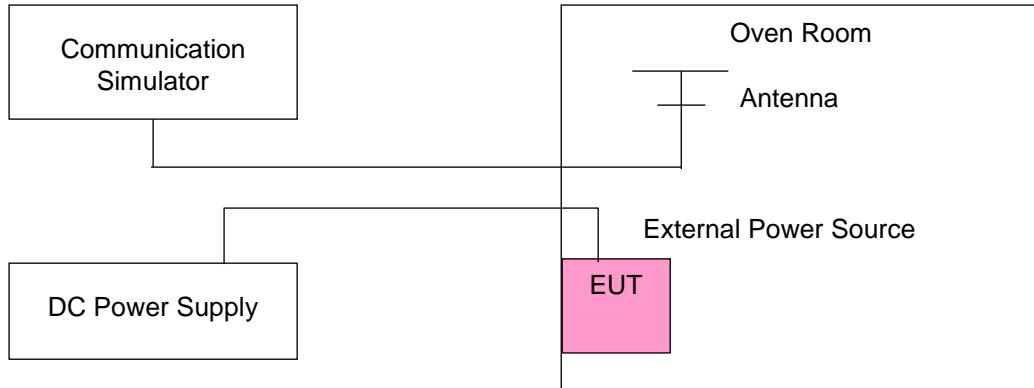
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.3.2 Test Procedure

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

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

4.3.3 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)
3.8	1852.400003	0.001	1907.600003	0.001
3.23	1852.400002	0.001	1907.600004	0.002
4.37	1852.400002	0.001	1907.600004	0.002

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1907.600002	0.001
-20	1852.400002	0.001	1907.600004	0.002
-10	1852.400002	0.001	1907.600004	0.002
0	1852.400003	0.001	1907.600004	0.002
10	1852.400001	0.001	1907.600003	0.001
20	1852.399999	-0.001	1907.599998	-0.001
30	1852.399998	-0.001	1907.599996	-0.002
40	1852.399997	-0.002	1907.599998	-0.001
50	1852.399998	-0.001	1907.599998	-0.001
55	1852.399996	-0.002	1907.599997	-0.002

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)
3.8	1850.700001	0.001	1909.300000	0.001
3.23	1850.700002	0.001	1909.300002	0.001
4.37	1850.700004	0.002	1909.300003	0.002

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1850.700002	0.001	1909.300003	0.001
-20	1850.700004	0.002	1909.300003	0.002
-10	1850.700002	0.001	1909.300004	0.002
0	1850.700002	0.001	1909.300001	0.001
10	1850.700003	0.001	1909.300003	0.001
20	1850.699997	-0.002	1909.299999	-0.001
30	1850.699999	-0.001	1909.299999	-0.001
40	1850.699996	-0.002	1909.299999	-0.001
50	1850.699998	-0.001	1909.299998	-0.001
55	1850.699997	-0.002	1909.299998	-0.001

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)	
3.8	1851.500001	0.001	1907.500004	0.002
3.23	1851.500003	0.002	1907.500003	0.002
4.37	1851.500002	0.001	1907.500003	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1851.500003	0.002	1907.500004	0.002
-20	1851.500001	0.001	1907.500001	0.001
-10	1851.500003	0.002	1907.500003	0.002
0	1851.500003	0.001	1907.500003	0.002
10	1851.500002	0.001	1907.500003	0.002
20	1851.499999	-0.001	1907.499997	-0.002
30	1851.499999	-0.001	1907.499998	-0.001
40	1851.499999	-0.001	1907.499997	-0.002
50	1851.499996	-0.002	1907.499996	-0.002
55	1851.499998	-0.001	1907.499996	-0.002

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)	
3.8	1852.500003	0.002	1907.500002	0.001
3.23	1852.500003	0.002	1907.500004	0.002
4.37	1852.500002	0.001	1907.500001	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1852.500004	0.002	1907.500003	0.001
-20	1852.500004	0.002	1907.500002	0.001
-10	1852.500002	0.001	1907.500002	0.001
0	1852.500002	0.001	1907.500004	0.002
10	1852.500002	0.001	1907.500002	0.001
20	1852.499998	-0.001	1907.499997	-0.001
30	1852.499997	-0.002	1907.499998	-0.001
40	1852.499997	-0.001	1907.499998	-0.001
50	1852.499996	-0.002	1907.499998	-0.001
55	1852.499998	-0.001	1907.499999	-0.001

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)	
3.8	1855.000002	0.001	1905.000001	0.001
3.23	1855.000003	0.002	1905.000001	0.001
4.37	1855.000002	0.001	1905.000003	0.002

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1855.000002	0.001	1905.000002	0.001
-20	1855.000003	0.002	1905.000002	0.001
-10	1855.000001	0.001	1905.000004	0.002
0	1855.000001	0.001	1905.000002	0.001
10	1855.000002	0.001	1905.000002	0.001
20	1854.999998	-0.001	1904.999998	-0.001
30	1854.999997	-0.002	1904.999997	-0.001
40	1854.999999	-0.001	1904.999998	-0.001
50	1854.999997	-0.002	1904.999999	-0.001
55	1854.999999	-0.001	1904.999999	-0.001

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)	
3.8	1857.500004	0.002	1902.500002	0.001
3.23	1857.500003	0.002	1902.500003	0.002
4.37	1857.500002	0.001	1902.500003	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1857.500002	0.001	1902.500003	0.001
-20	1857.500002	0.001	1902.500003	0.002
-10	1857.500004	0.002	1902.500001	0.001
0	1857.500001	0.001	1902.500002	0.001
10	1857.500003	0.002	1902.500002	0.001
20	1857.499999	-0.001	1902.499997	-0.001
30	1857.499997	-0.002	1902.499999	-0.001
40	1857.499996	-0.002	1902.499998	-0.001
50	1857.499998	-0.001	1902.499996	-0.002
55	1857.499997	-0.002	1902.499999	-0.001

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)	
3.8	1860.000003	0.002	1900.000001	0.001
3.23	1860.000002	0.001	1900.000003	0.002
4.37	1860.000002	0.001	1900.000002	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1860.000003	0.001	1900.000003	0.001
-20	1860.000002	0.001	1900.000003	0.002
-10	1860.000003	0.002	1900.000002	0.001
0	1860.000002	0.001	1900.000002	0.001
10	1860.000003	0.001	1900.000004	0.002
20	1859.999997	-0.002	1899.999998	-0.001
30	1859.999998	-0.001	1899.999998	-0.001
40	1859.999998	-0.001	1899.999998	-0.001
50	1859.999998	-0.001	1899.999999	-0.001
55	1859.999998	-0.001	1899.999998	-0.001

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)
3.8	1850.700003	0.002	1914.300003	0.002
3.23	1850.700003	0.001	1914.300004	0.002
4.37	1850.700003	0.002	1914.300004	0.002

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1850.700001	0.001	1914.300001	0.001
-10	1850.700003	0.002	1914.300002	0.001
0	1850.700004	0.002	1914.300004	0.002
10	1850.700004	0.002	1914.300003	0.002
20	1850.699999	-0.001	1914.299998	-0.001
30	1850.699997	-0.002	1914.299997	-0.002
40	1850.699999	-0.001	1914.299998	-0.001
50	1850.699997	-0.002	1914.299999	-0.001
55	1850.699999	-0.001	1914.299998	-0.001

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)	
3.8	1851.500002	0.001	1913.500002	0.001
3.23	1851.500001	0.001	1913.500001	0.001
4.37	1851.500003	0.002	1913.500003	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1851.500003	0.002	1913.500001	0.001
-20	1851.500002	0.001	1913.500004	0.002
-10	1851.500002	0.001	1913.500002	0.001
0	1851.500001	0.001	1913.500003	0.002
10	1851.500003	0.001	1913.500004	0.002
20	1851.499997	-0.002	1913.499998	-0.001
30	1851.499996	-0.002	1913.499997	-0.002
40	1851.499998	-0.001	1913.499999	-0.001
50	1851.499998	-0.001	1913.499997	-0.002
55	1851.499997	-0.002	1913.499997	-0.002

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)	
3.8	1852.500001	0.001	1912.500002	0.001
3.23	1852.500003	0.002	1912.500001	0.001
4.37	1852.500001	0.001	1912.500004	0.002

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1852.500002	0.001	1912.500003	0.001
-20	1852.500003	0.002	1912.500003	0.002
-10	1852.500003	0.001	1912.500001	0.001
0	1852.500002	0.001	1912.500001	0.001
10	1852.500003	0.001	1912.500004	0.002
20	1852.499999	-0.001	1912.499999	-0.001
30	1852.499999	-0.001	1912.499997	-0.001
40	1852.499998	-0.001	1912.499997	-0.002
50	1852.499998	-0.001	1912.499999	-0.001
55	1852.499997	-0.002	1912.499997	-0.002

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)	
3.8	1855.000002	0.001	1910.000002	0.001
3.23	1855.000004	0.002	1910.000001	0.001
4.37	1855.000001	0.001	1910.000003	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1855.000002	0.001	1910.000004	0.002
-20	1855.000003	0.002	1910.000001	0.001
-10	1855.000004	0.002	1910.000003	0.001
0	1855.000003	0.002	1910.000001	0.001
10	1855.000002	0.001	1910.000003	0.002
20	1854.999998	-0.001	1909.999999	-0.001
30	1854.999999	-0.001	1909.999998	-0.001
40	1854.999999	-0.001	1909.999996	-0.002
50	1854.999997	-0.002	1909.999998	-0.001
55	1854.999998	-0.001	1909.999996	-0.002

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)	
3.8	1857.500004	0.002	1907.500003	0.002
3.23	1857.500001	0.001	1907.500004	0.002
4.37	1857.500003	0.002	1907.500004	0.002

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 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	1857.500003	0.001	1907.500002	0.001
-20	1857.500003	0.002	1907.500003	0.001
-10	1857.500001	0.001	1907.500004	0.002
0	1857.500001	0.001	1907.500003	0.002
10	1857.500002	0.001	1907.500003	0.002
20	1857.499997	-0.001	1907.499996	-0.002
30	1857.499997	-0.002	1907.499998	-0.001
40	1857.499998	-0.001	1907.499998	-0.001
50	1857.499997	-0.001	1907.499998	-0.001
55	1857.499996	-0.002	1907.499998	-0.001

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)	
3.8	1860.000003	0.002	1905.000001	0.001
3.23	1860.000003	0.001	1905.000004	0.002
4.37	1860.000001	0.001	1905.000003	0.001

Note: The applicant defined the normal working voltage of the battery is from 3.23 Vdc to 4.37 Vdc.

Frequency Error vs. Temperature

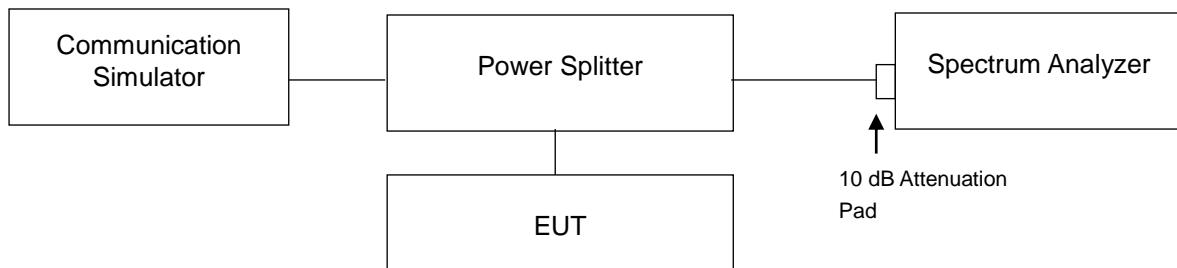
Temp. (°C)	LTE Band 25			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1860.000003	0.001	1905.000001	0.001
-20	1860.000002	0.001	1905.000003	0.001
-10	1860.000003	0.001	1905.000004	0.002
0	1860.000002	0.001	1905.000003	0.001
10	1860.000002	0.001	1905.000002	0.001
20	1859.999999	-0.001	1904.999998	-0.001
30	1859.999996	-0.002	1904.999998	-0.001
40	1859.999999	-0.001	1904.999996	-0.002
50	1859.999999	-0.001	1904.999999	-0.001
55	1859.999997	-0.002	1904.999996	-0.002

4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

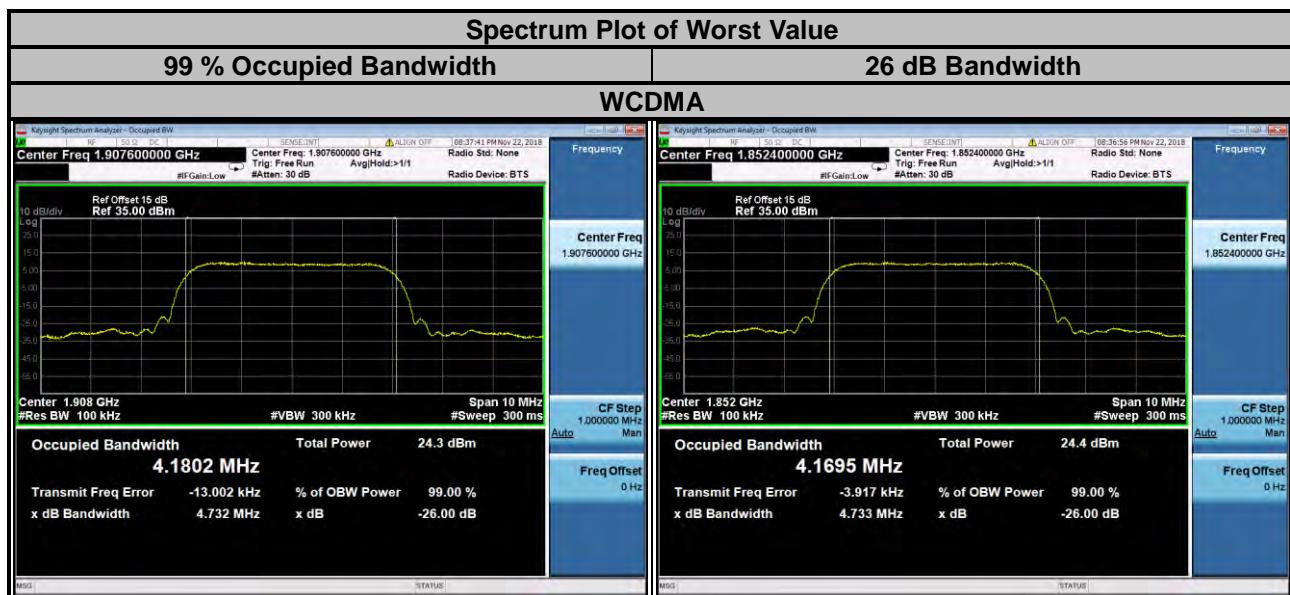
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.4.2 Test Setup

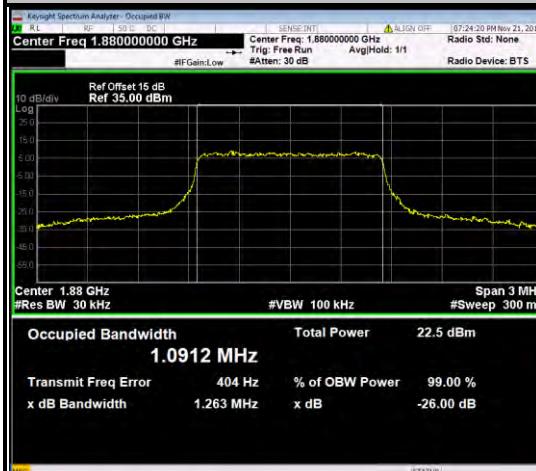
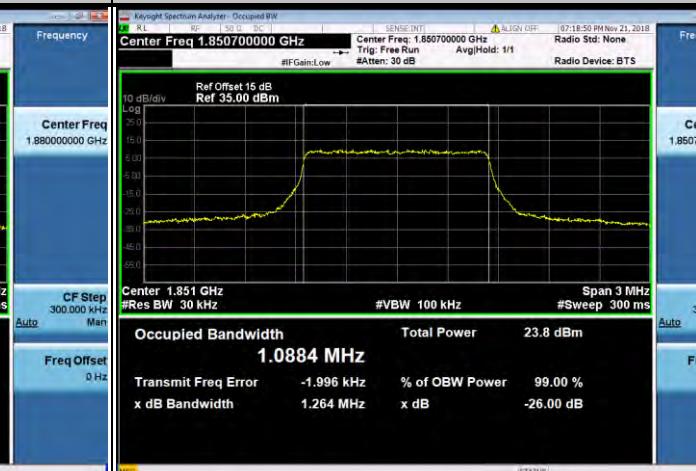
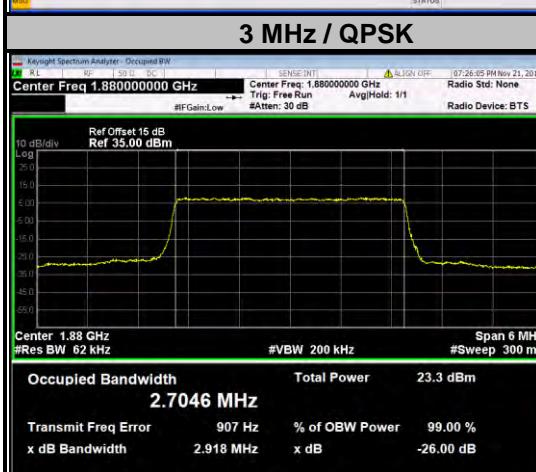
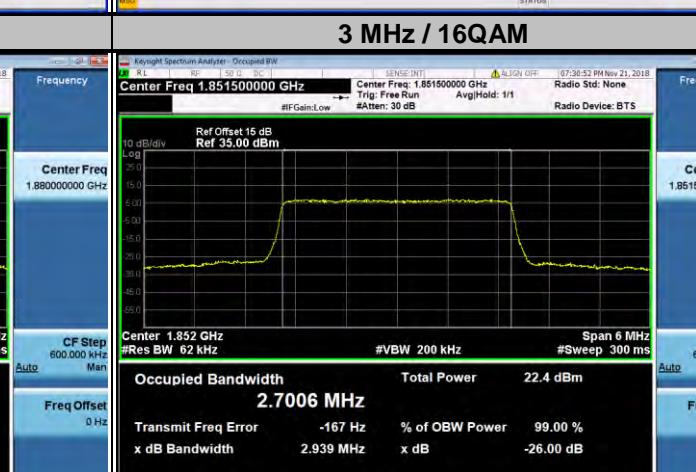


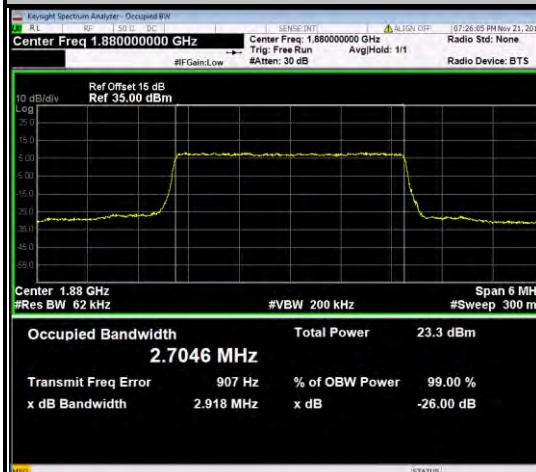
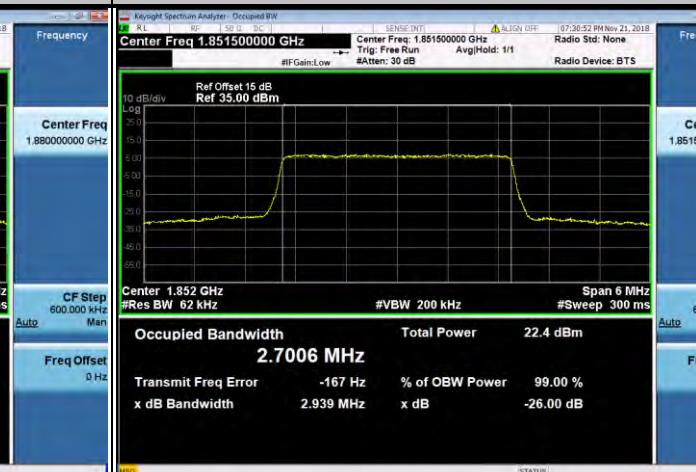
4.4.3 Test Result

WCDMA			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1695	4.733
9400	1880.0	4.1728	4.725
9538	1907.6	4.1802	4.732



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	1.0884	1.0901	1.264	1.247
18900	1880.0	1.0892	1.0912	1.249	1.263
19193	1909.3	1.0886	1.0904	1.251	1.256
Channel Bandwidth: 3 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18615	1851.5	2.7013	2.7006	2.915	2.939
18900	1880.0	2.7046	2.7022	2.918	2.934
19185	1908.5	2.7028	2.6993	2.923	2.939

Spectrum Plot of Worst Value					
99 % Occupied Bandwidth			26 dB Bandwidth		
1.4 MHz / 16QAM			1.4 MHz / QPSK		
					
Occupied Bandwidth 1.0912 MHz	Total Power 22.5 dBm	Occupied Bandwidth 1.0884 MHz	Total Power 23.8 dBm	Occupied Bandwidth 2.7046 MHz	Total Power 23.3 dBm
Transmit Freq Error 404 Hz	% of OBW Power 99.00 %	Transmit Freq Error -1.996 kHz	% of OBW Power 99.00 %	Transmit Freq Error 907 Hz	% of OBW Power 99.00 %
x dB Bandwidth 1.263 MHz	x dB -26.00 dB	x dB Bandwidth 1.264 MHz	x dB -26.00 dB	x dB Bandwidth 2.918 MHz	x dB -26.00 dB

3 MHz / QPSK					
					
Occupied Bandwidth 2.7006 MHz	Total Power 22.4 dBm	Occupied Bandwidth 2.7006 MHz	Total Power 22.4 dBm	Occupied Bandwidth 2.7006 MHz	Total Power 22.4 dBm
Transmit Freq Error -167 Hz	% of OBW Power 99.00 %	Transmit Freq Error -167 Hz	% of OBW Power 99.00 %	Transmit Freq Error -167 Hz	% of OBW Power 99.00 %
x dB Bandwidth 2.939 MHz	x dB -26.00 dB	x dB Bandwidth 2.939 MHz	x dB -26.00 dB	x dB Bandwidth 2.939 MHz	x dB -26.00 dB

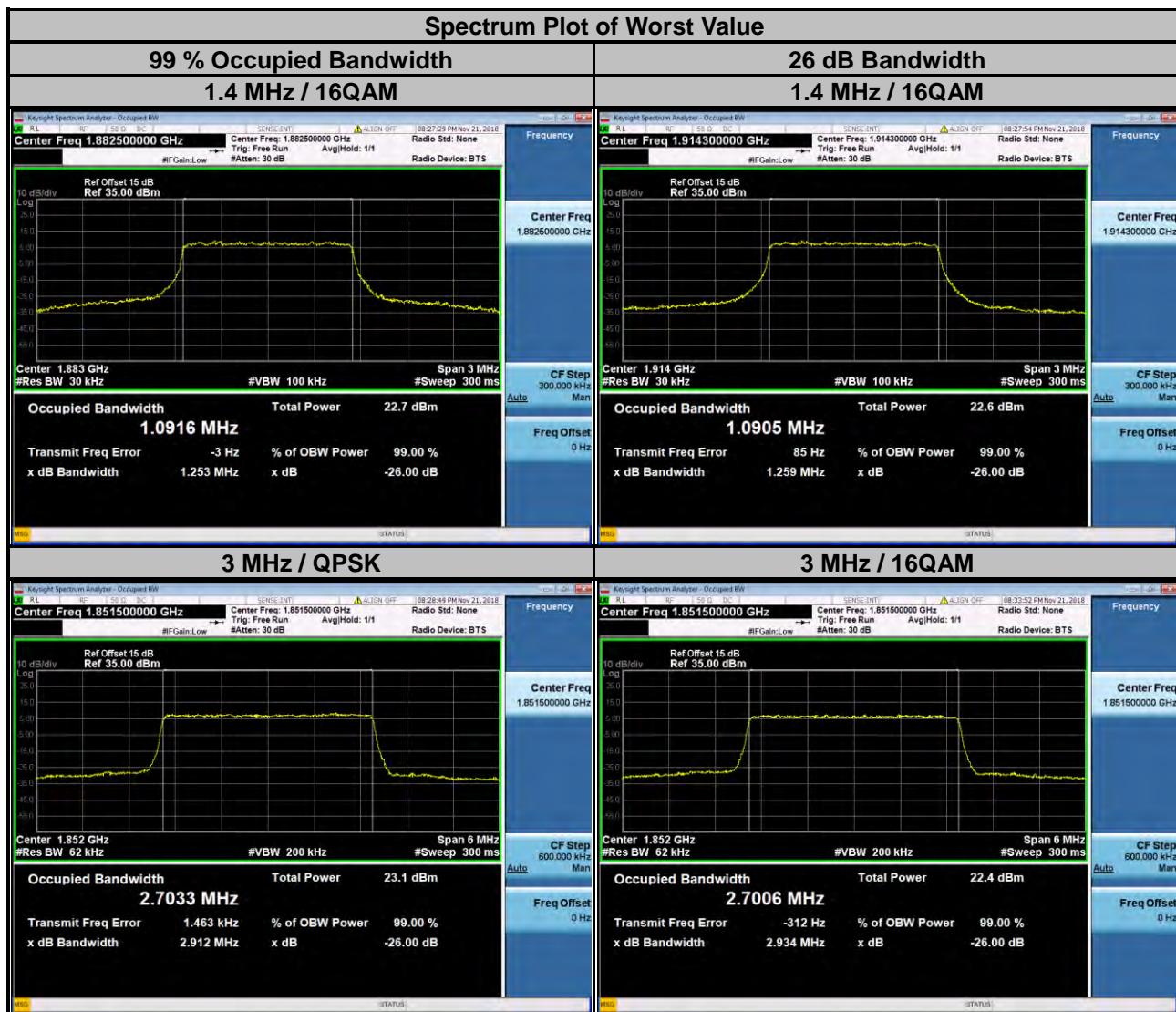
LTE Band 2					
Channel Bandwidth: 5 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18625	1852.5	4.4952	4.4972	4.839	4.824
18900	1880.0	4.4982	4.4971	4.837	4.834
19175	1907.5	4.4965	4.5031	4.814	4.833
Channel Bandwidth: 10 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18650	1855.0	8.9720	8.9771	9.506	9.513
18900	1880.0	8.9659	8.9723	9.520	9.535
19150	1905.0	8.9697	8.9763	9.503	9.514



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	13.469	13.477	14.24	14.24
18900	1880.0	13.471	13.466	14.23	14.24
19125	1902.5	13.428	13.430	14.22	14.21
Channel Bandwidth: 20 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18700	1860.0	17.960	17.964	19.00	19.02
18900	1880.0	17.967	17.979	19.03	19.02
19100	1900.0	17.873	17.874	18.99	18.99



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	1.0883	1.0900	1.250	1.258
26365	1882.5	1.0888	1.0916	1.258	1.253
26683	1914.3	1.0879	1.0905	1.255	1.259
Channel Bandwidth: 3 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26055	1851.5	2.7033	2.7006	2.912	2.934
26365	1882.5	2.7028	2.6986	2.931	2.932
26675	1913.5	2.6978	2.6947	2.909	2.927



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	4.4940	4.4986	4.826	4.837
26365	1882.5	4.4945	4.4974	4.820	4.837
26665	1912.5	4.4870	4.4890	4.806	4.811
Channel Bandwidth: 10 MHz					
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26090	1855.0	8.9716	8.9750	9.508	9.531
26365	1882.5	8.9706	8.9760	9.525	9.541
26640	1910.0	8.9737	8.9825	9.509	9.518



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	13.473	13.473	14.25	14.24
26365	1882.5	13.485	13.482	14.25	14.25
26615	1907.5	13.500	13.500	14.25	14.25

Channel Bandwidth: 20 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
26140	1860.0	17.953	17.964	19.03	19.01
26365	1882.5	17.989	17.996	19.06	19.06
26590	1905.0	17.972	17.977	19.02	19.03

Spectrum Plot of Worst Value

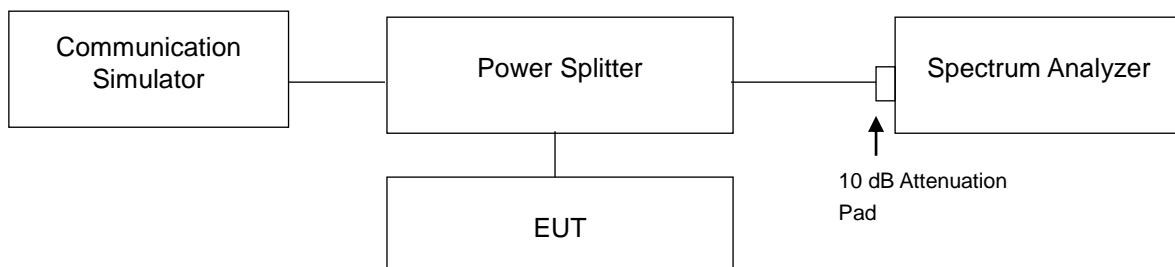


4.5 Band Edge Measurement

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.

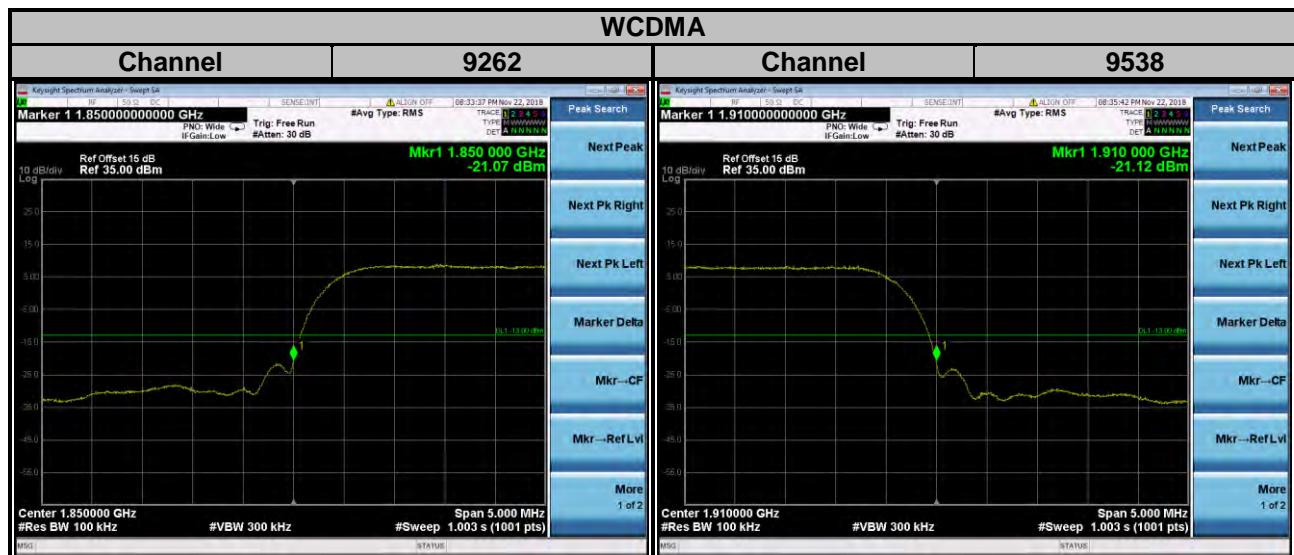
4.5.2 Test Setup

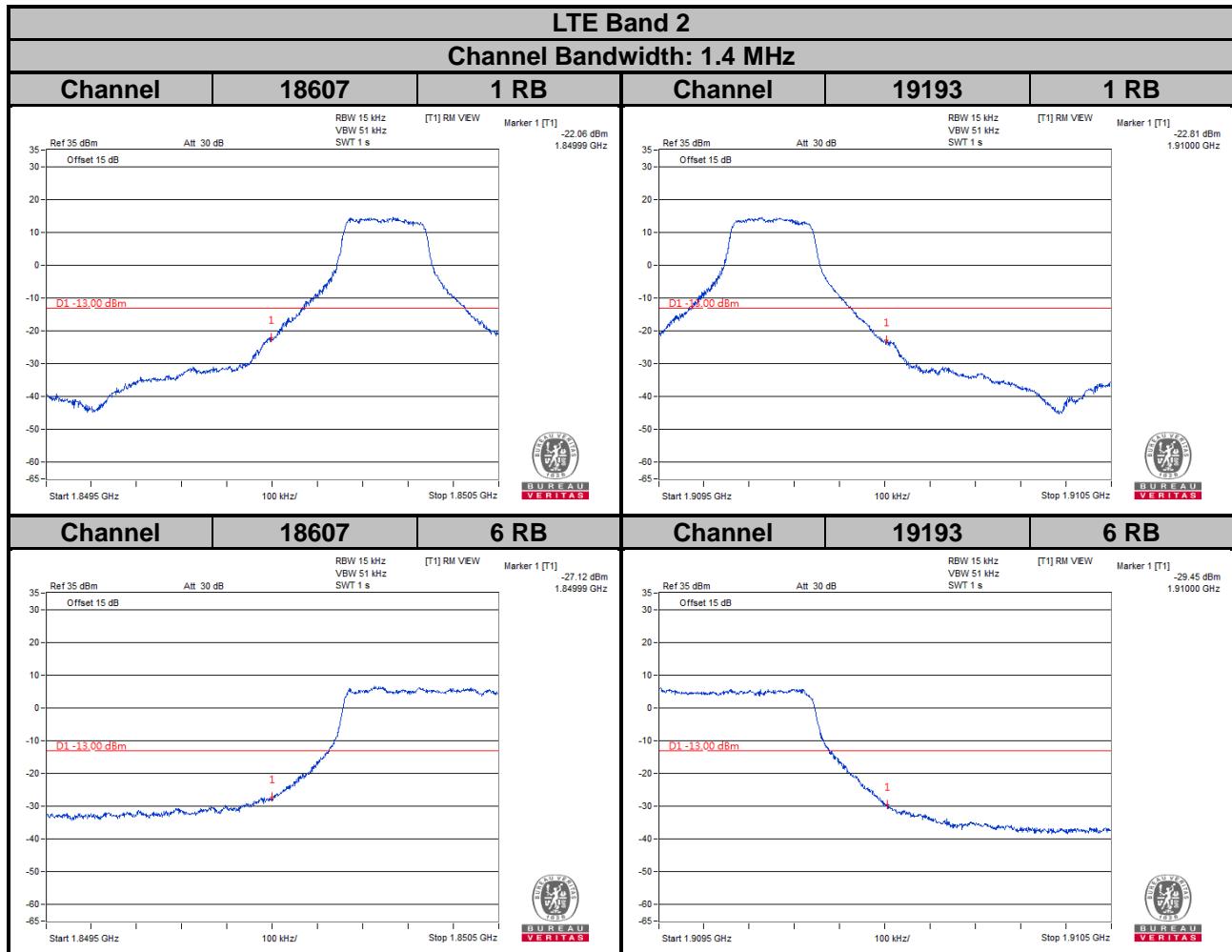


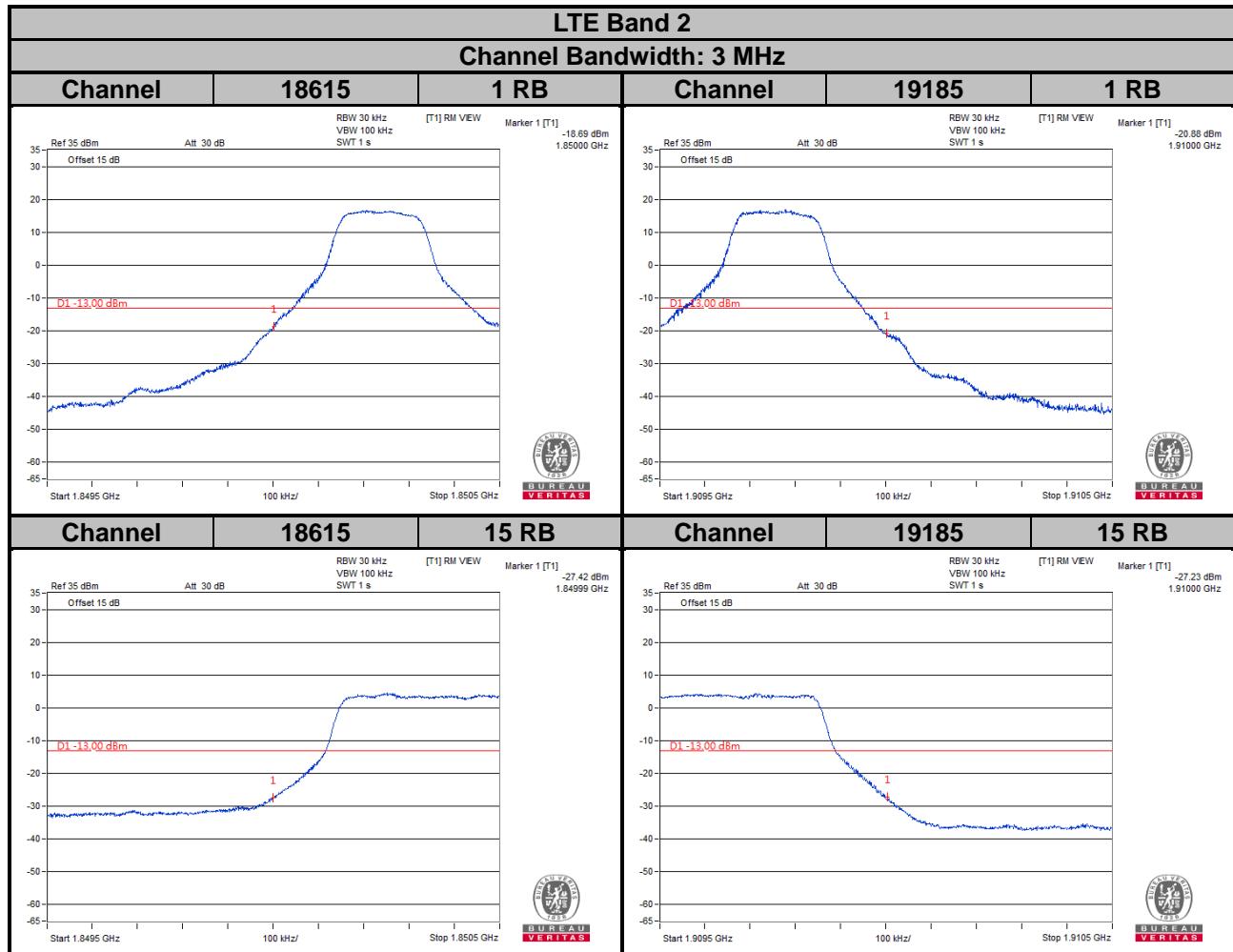
4.5.3 Test Procedures

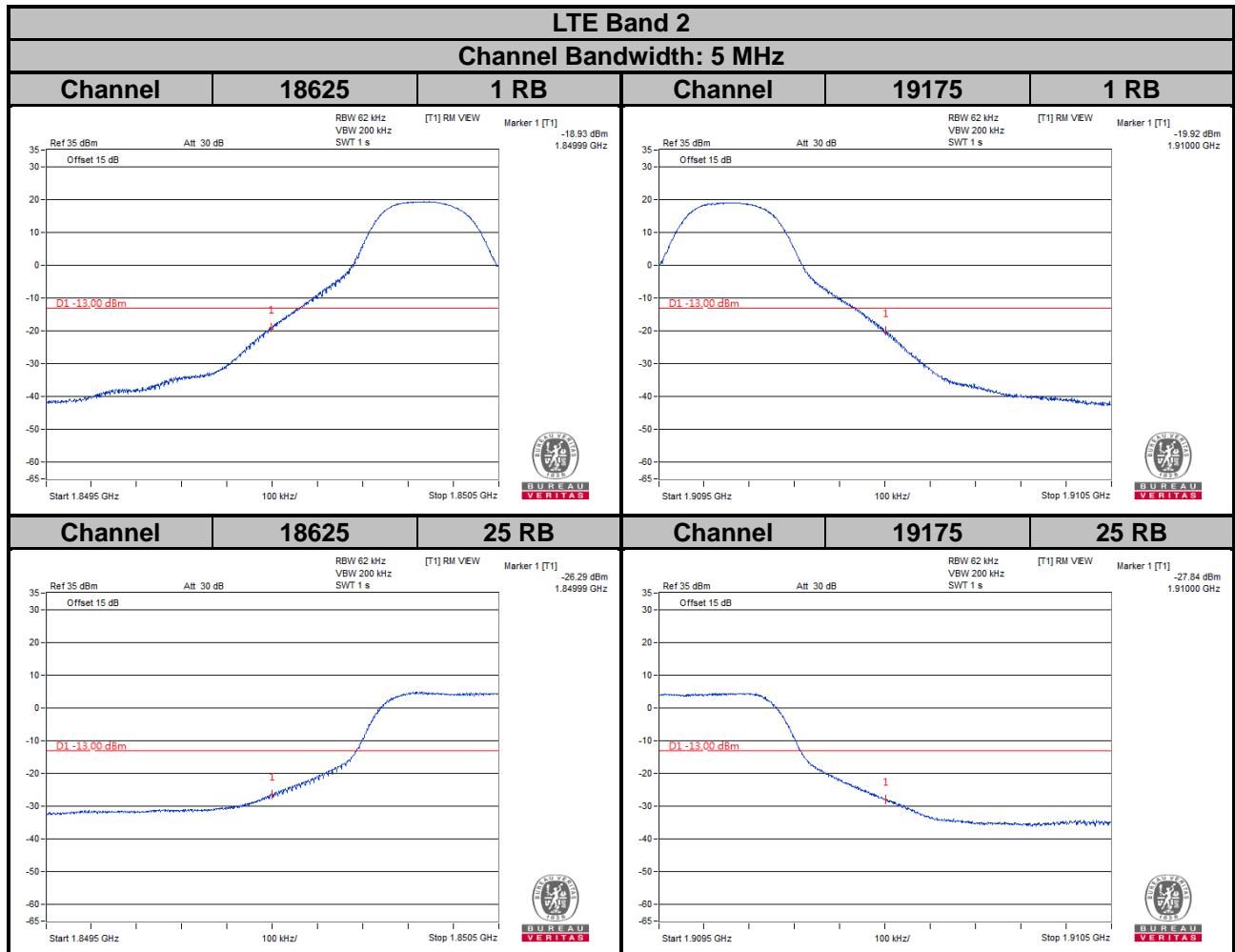
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (WCDMA).
- The center frequency of spectrum is the band edge frequency and span is 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 62 kHz and VB of the spectrum is 200 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.

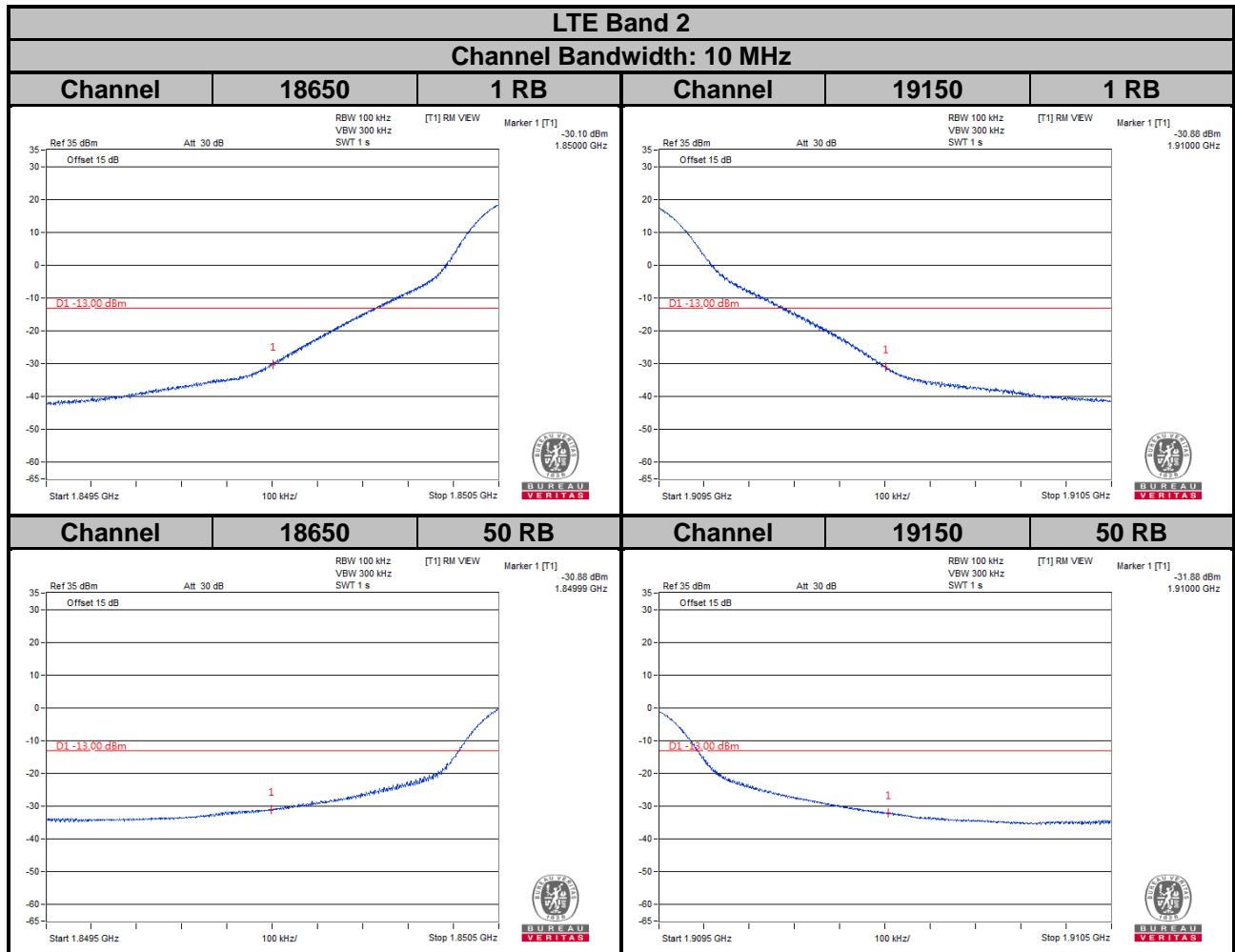
4.5.4 Test Results

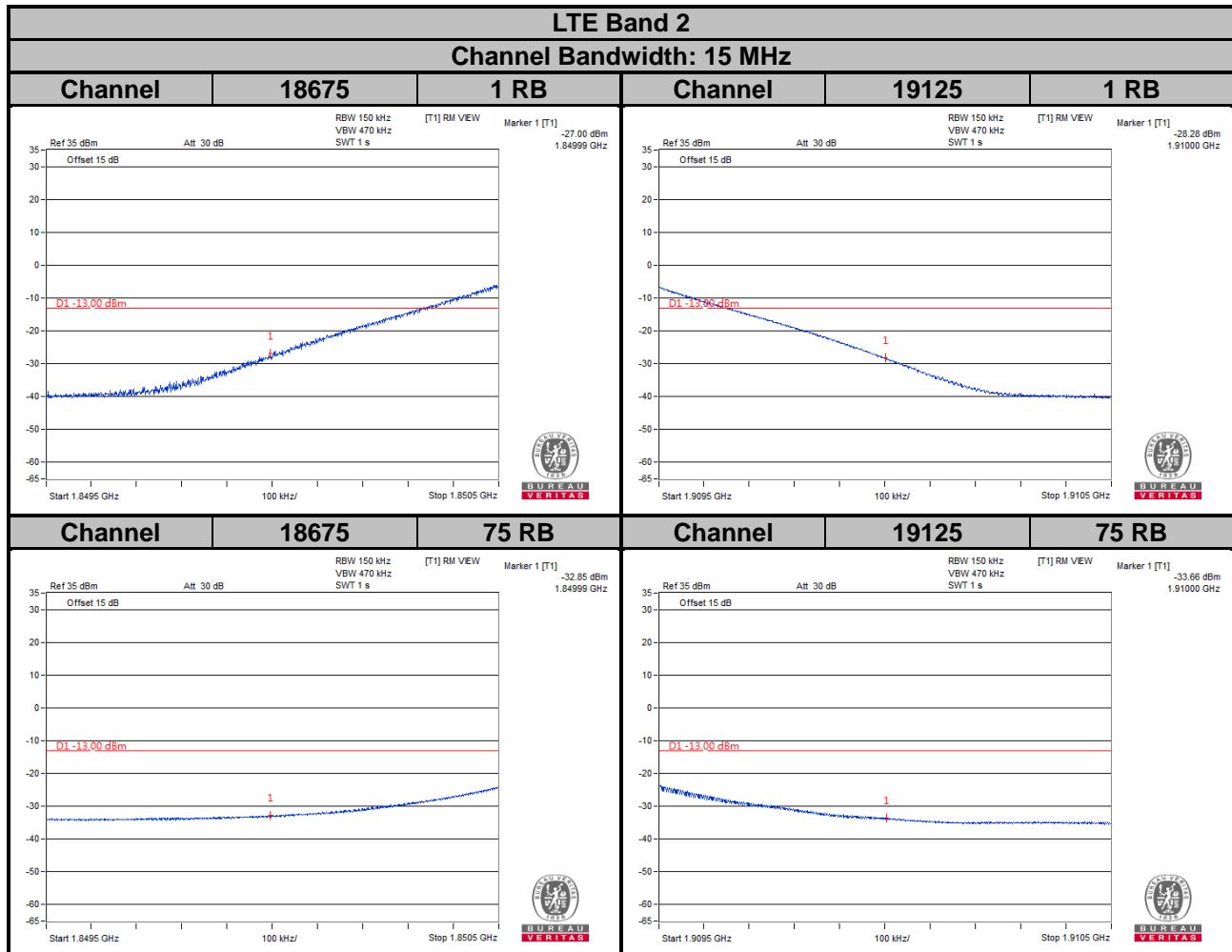


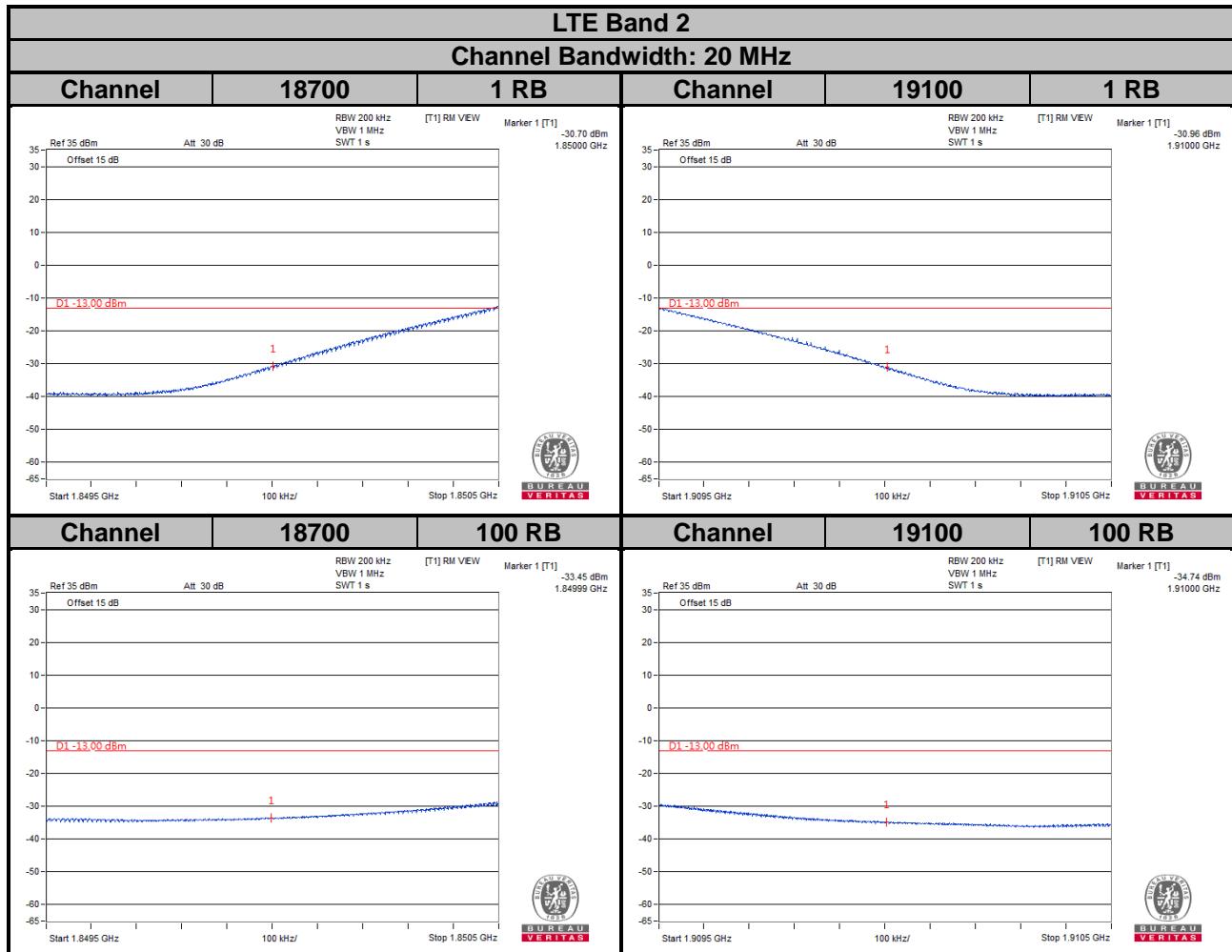


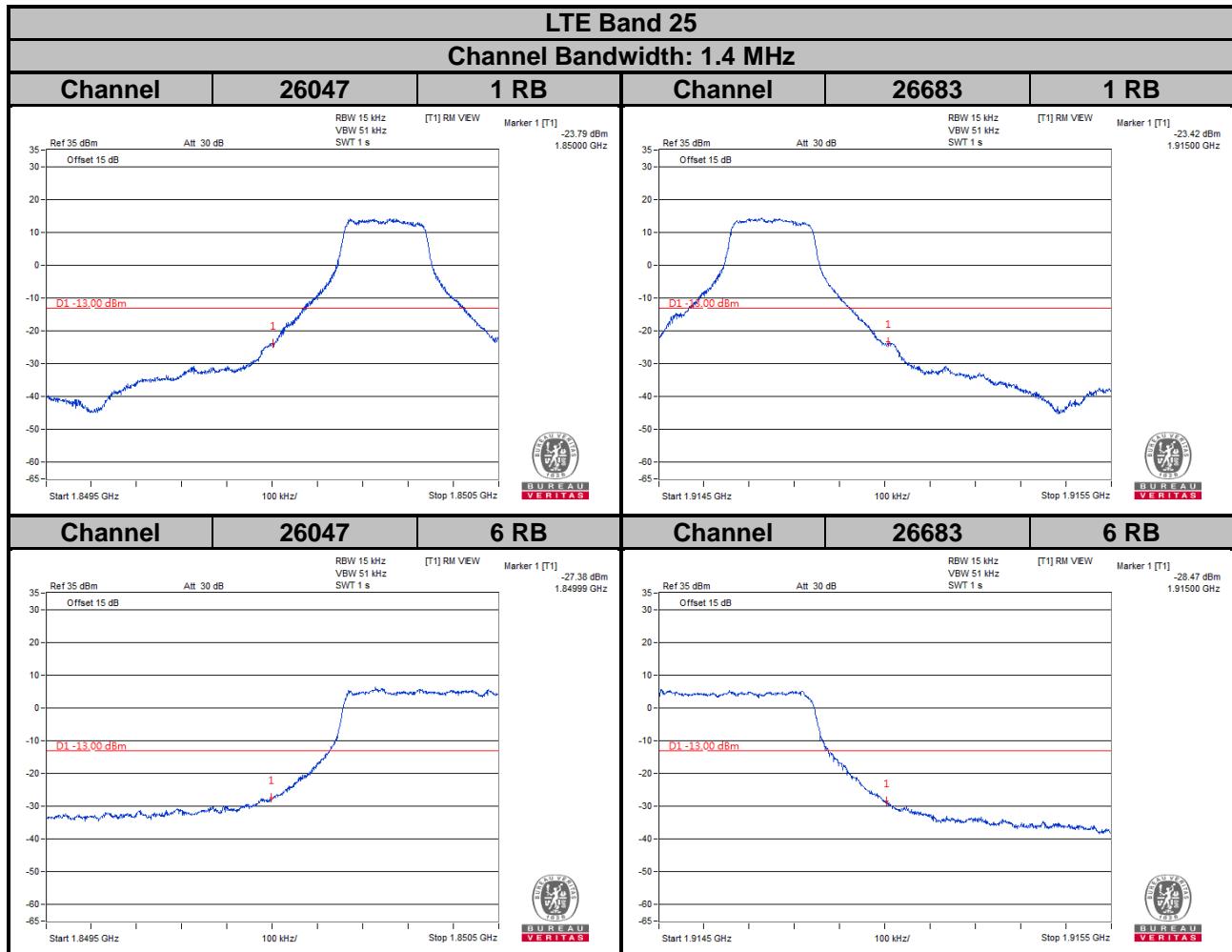


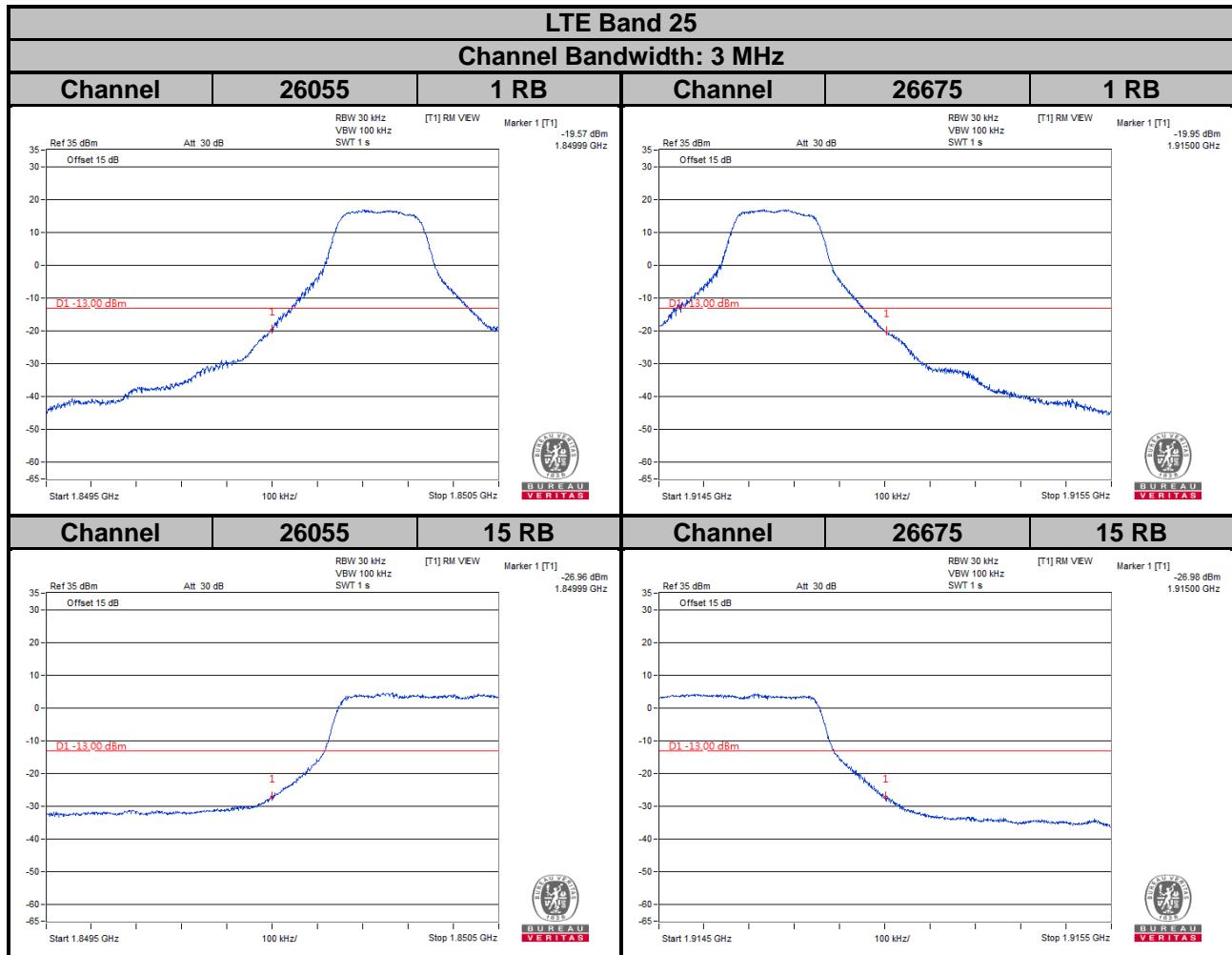


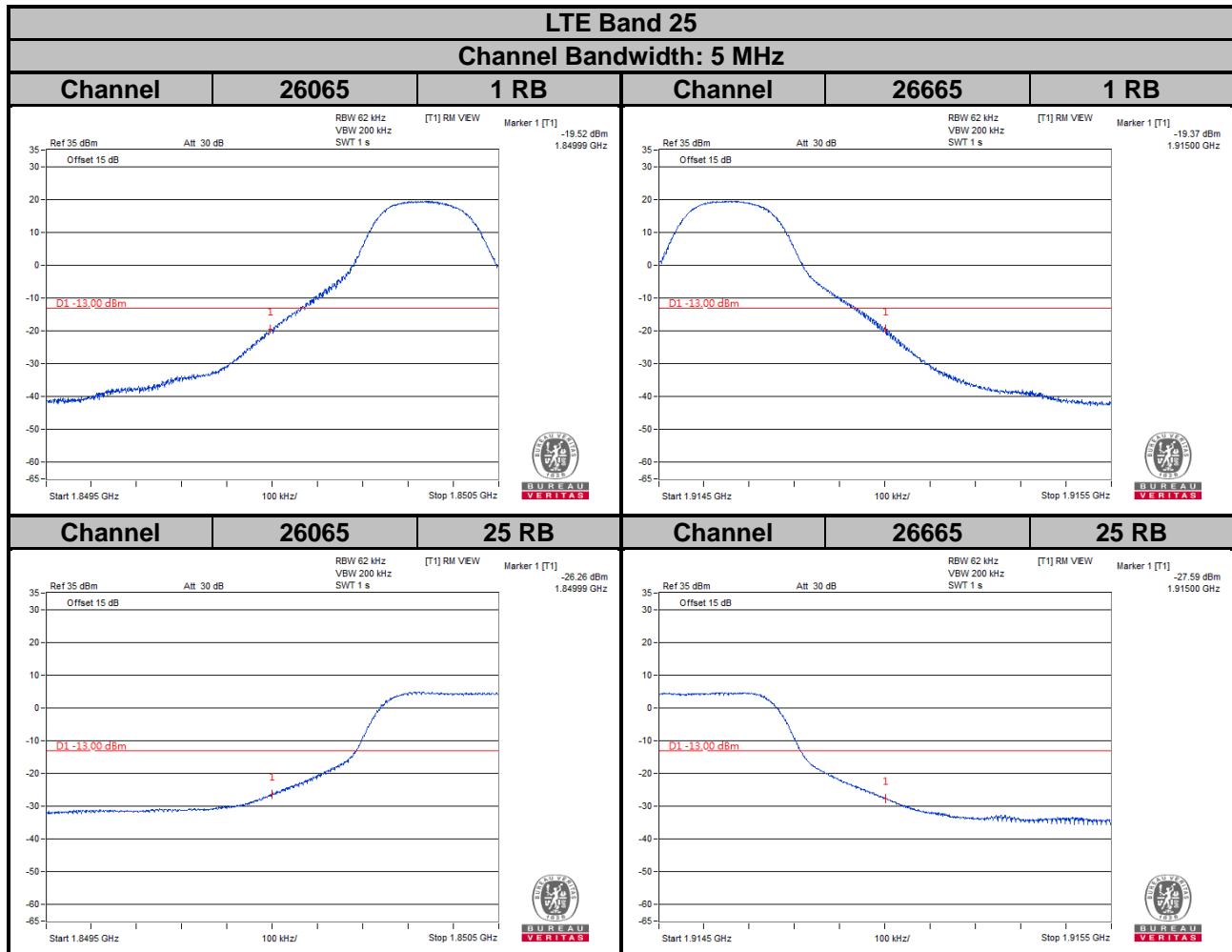


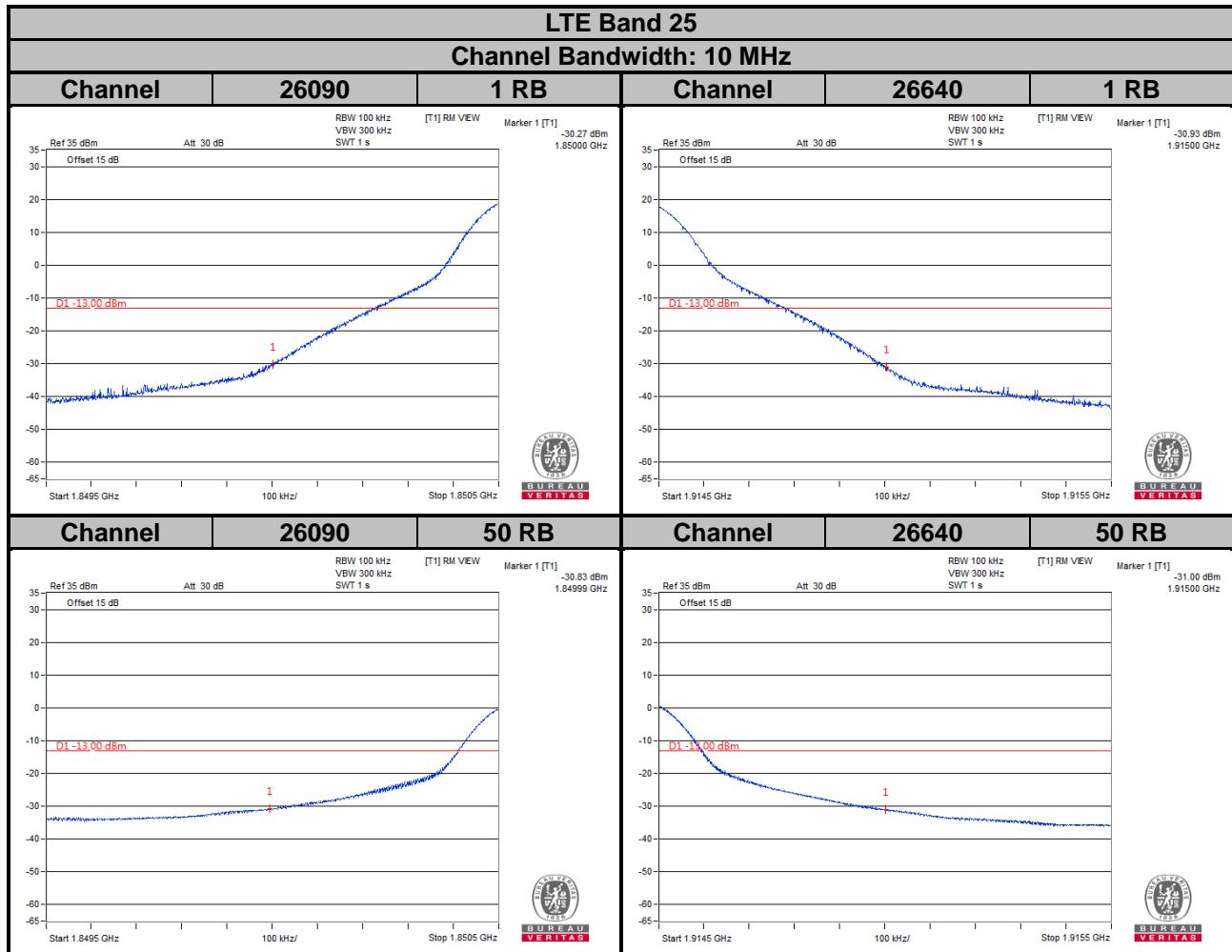


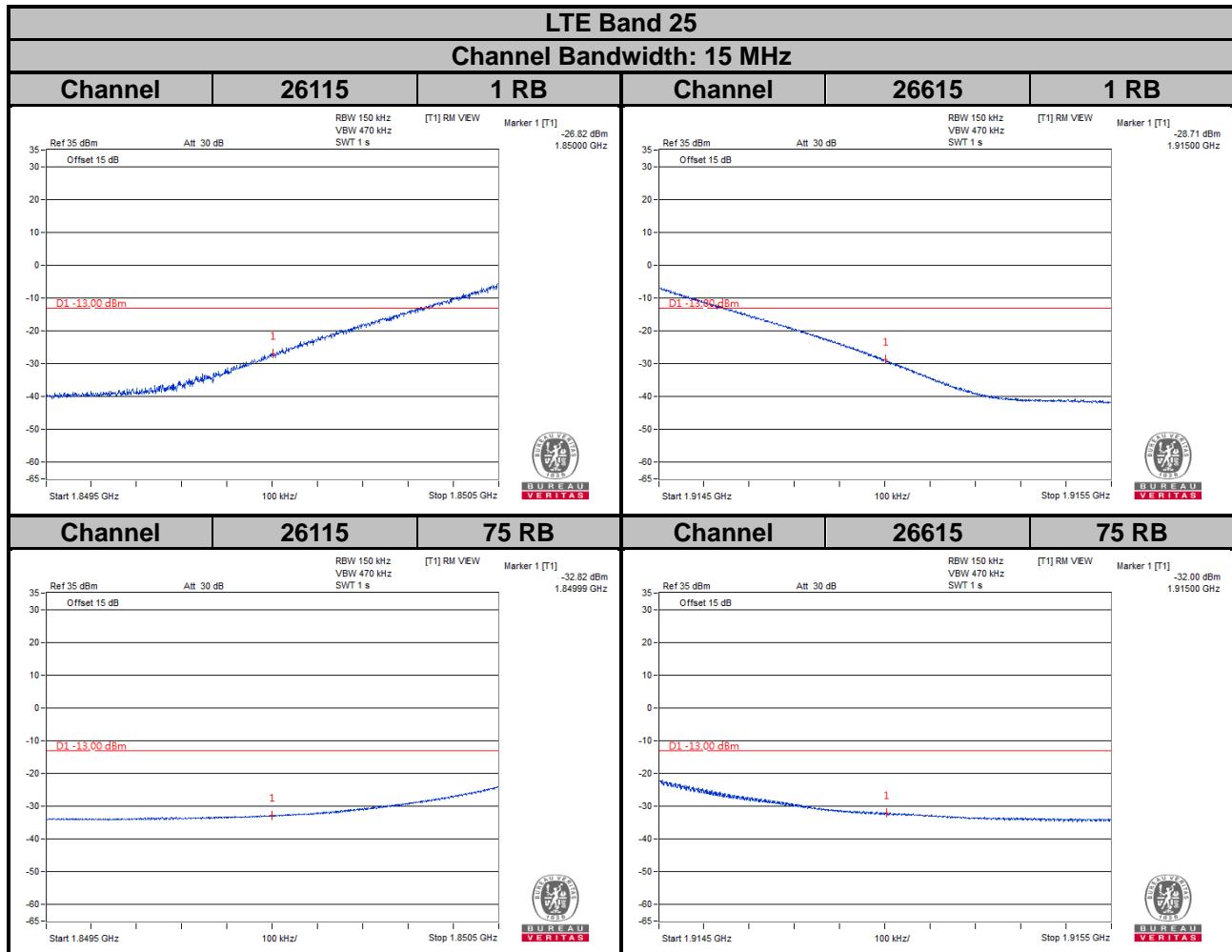


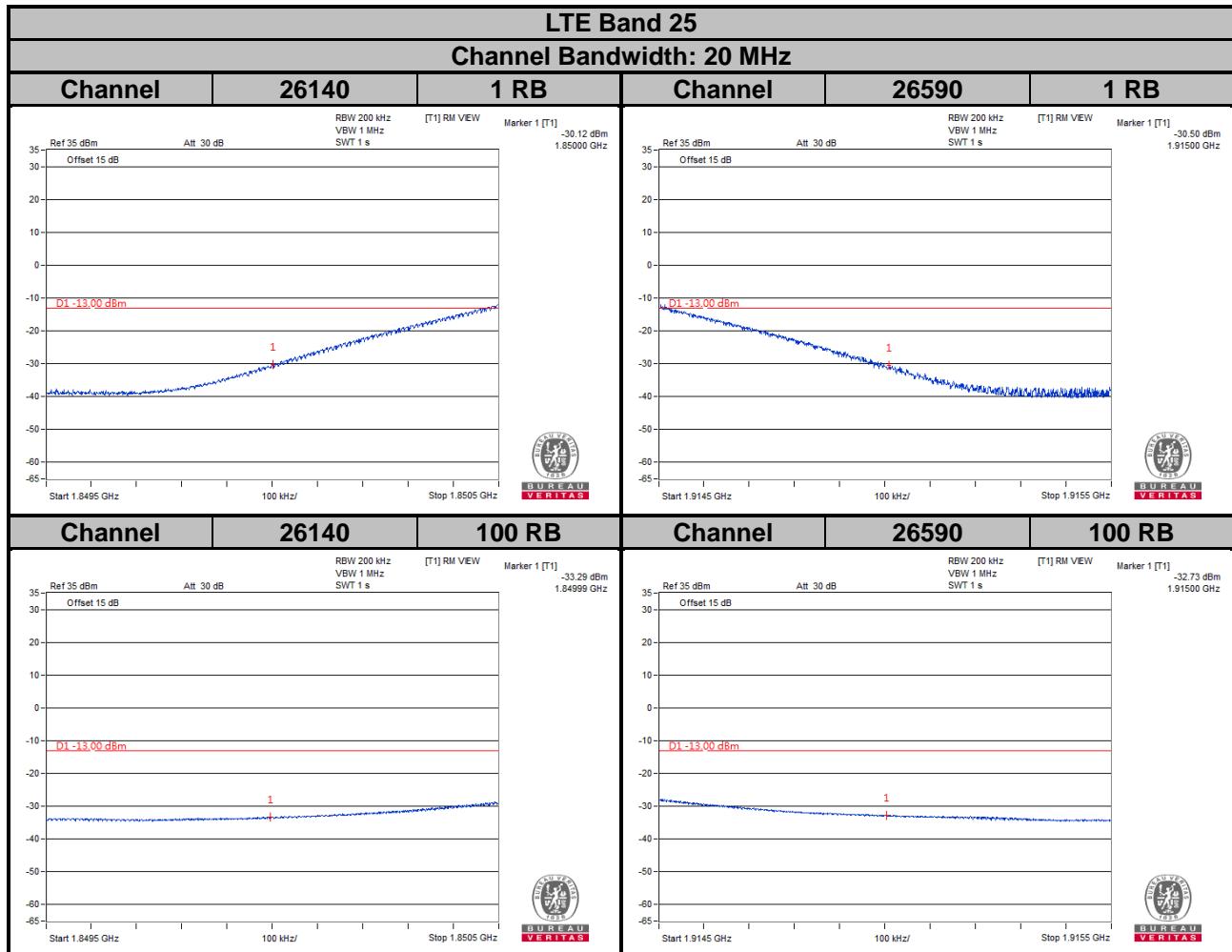










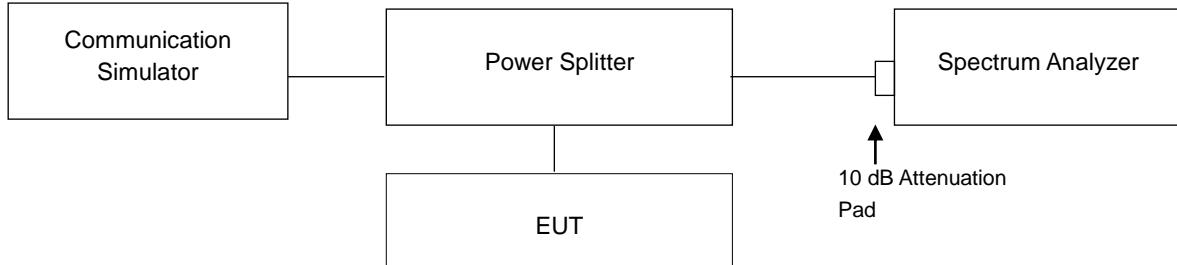


4.6 Peak to Average Ratio

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

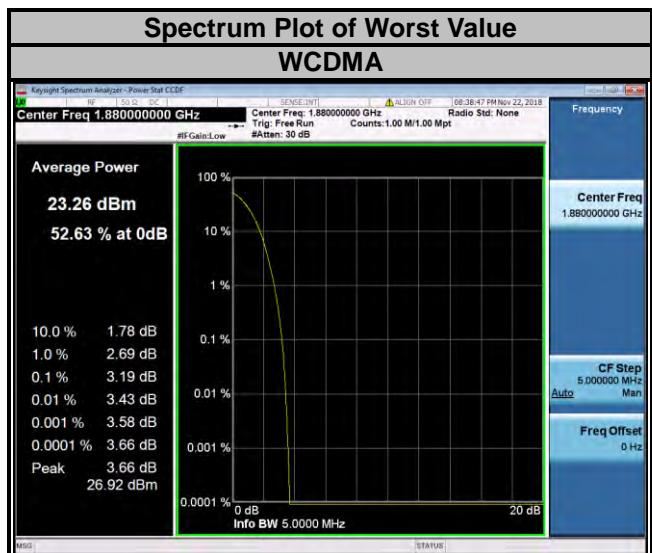


4.6.3 Test Procedures

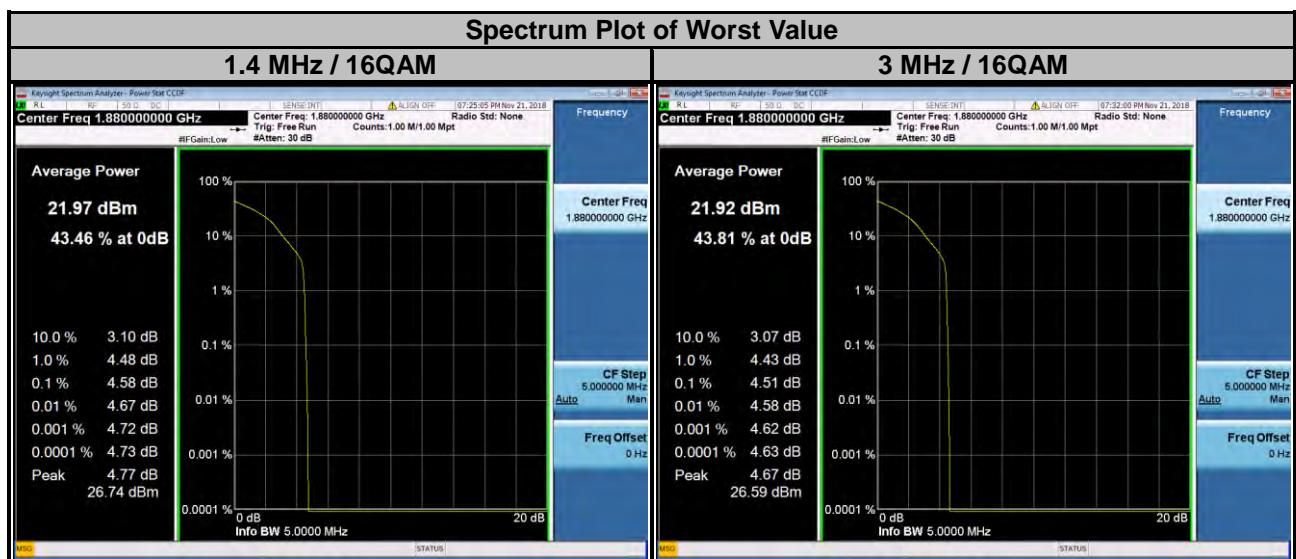
1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

4.6.4 Test Results

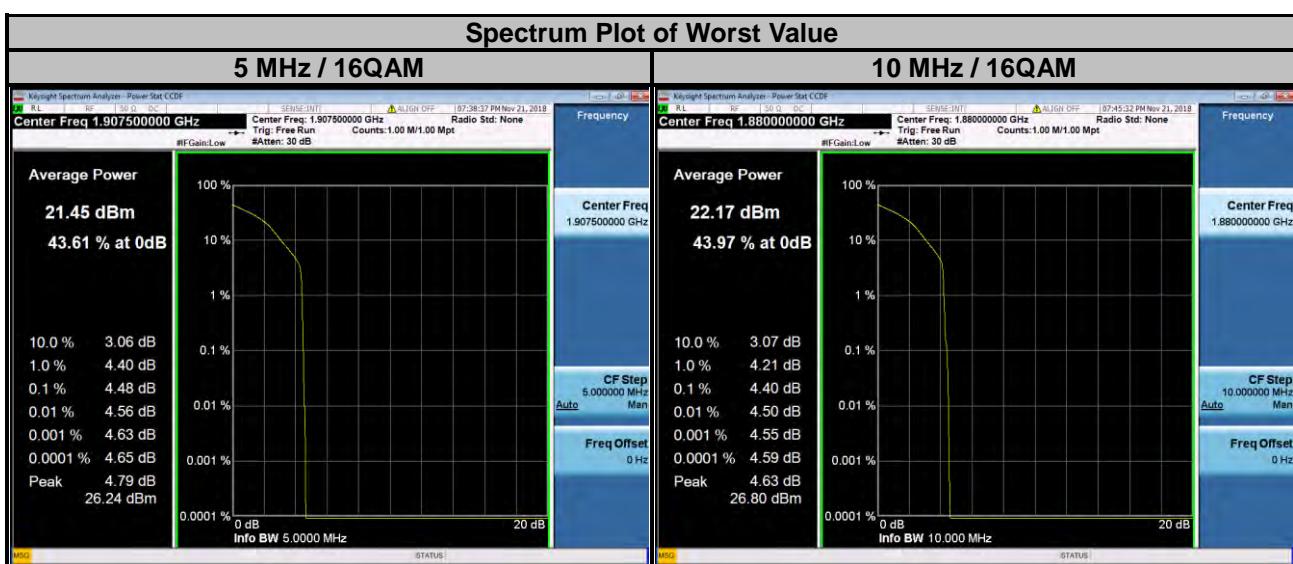
Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		WCDMA
9262	1852.4	3.16
9400	1880.0	3.19
9538	1907.6	3.13



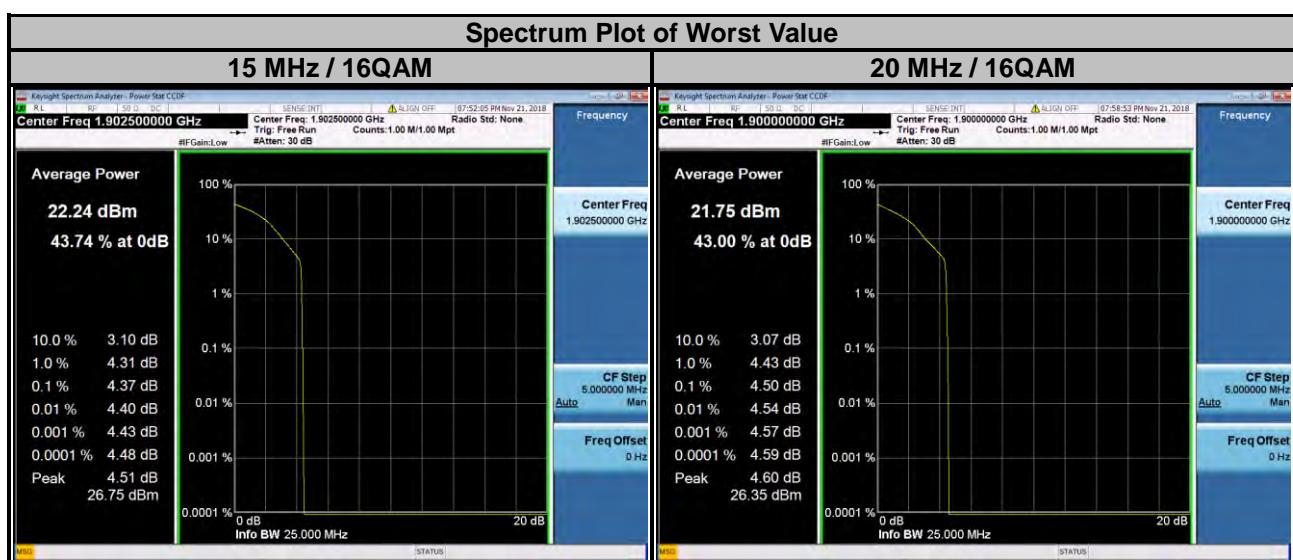
LTE Band 2							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	3.73	4.56	18615	1851.5	3.71	4.46
18900	1880.0	3.69	4.58	18900	1880.0	3.71	4.51
19193	1909.3	4.00	4.53	19185	1908.5	3.95	4.40



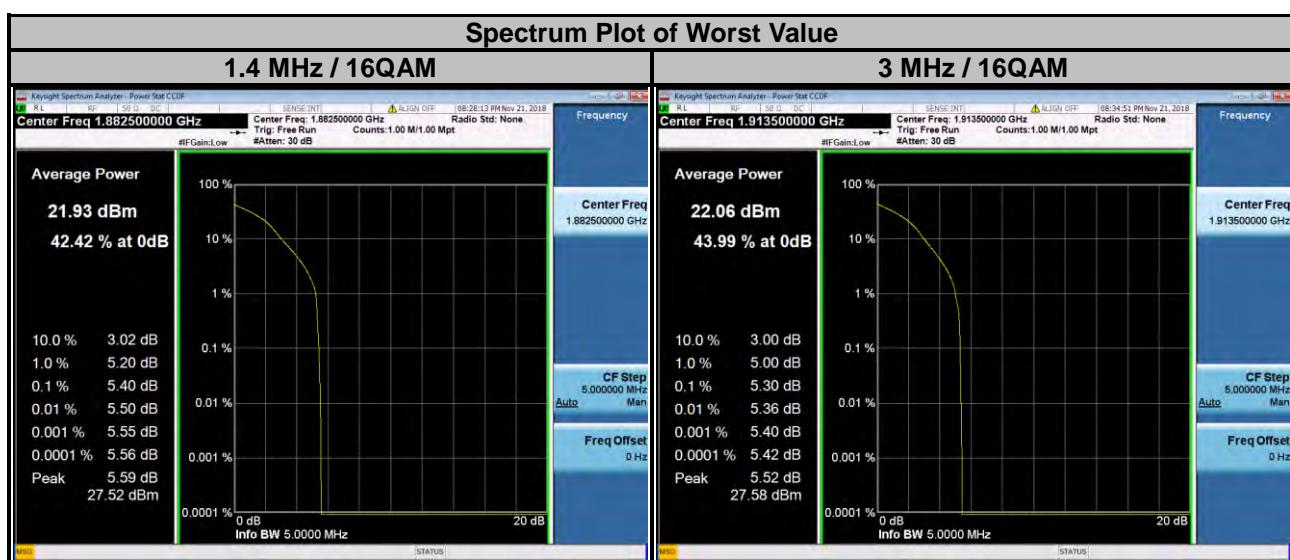
LTE Band 2							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	3.64	4.41	18650	1855.0	3.59	4.37
18900	1880.0	3.67	4.31	18900	1880.0	3.54	4.40
19175	1907.5	3.65	4.48	19150	1905.0	3.56	4.36



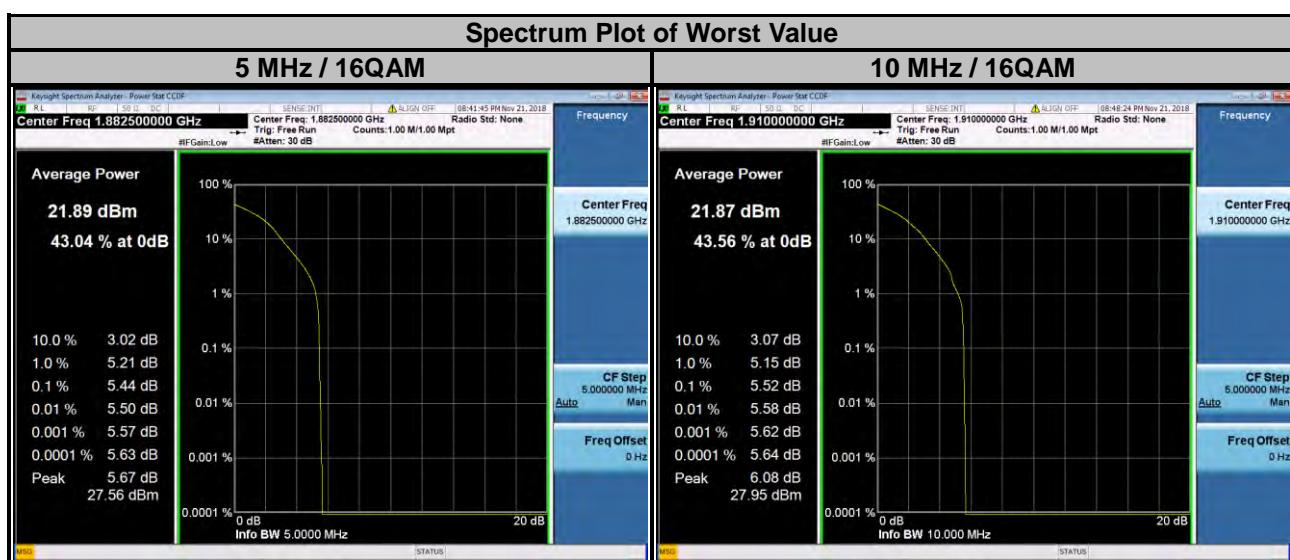
LTE Band 2							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	3.85	4.30	18700	1860.0	3.53	4.19
18900	1880.0	3.41	4.22	18900	1880.0	3.47	4.33
19125	1902.5	3.61	4.37	19100	1900.0	3.97	4.50



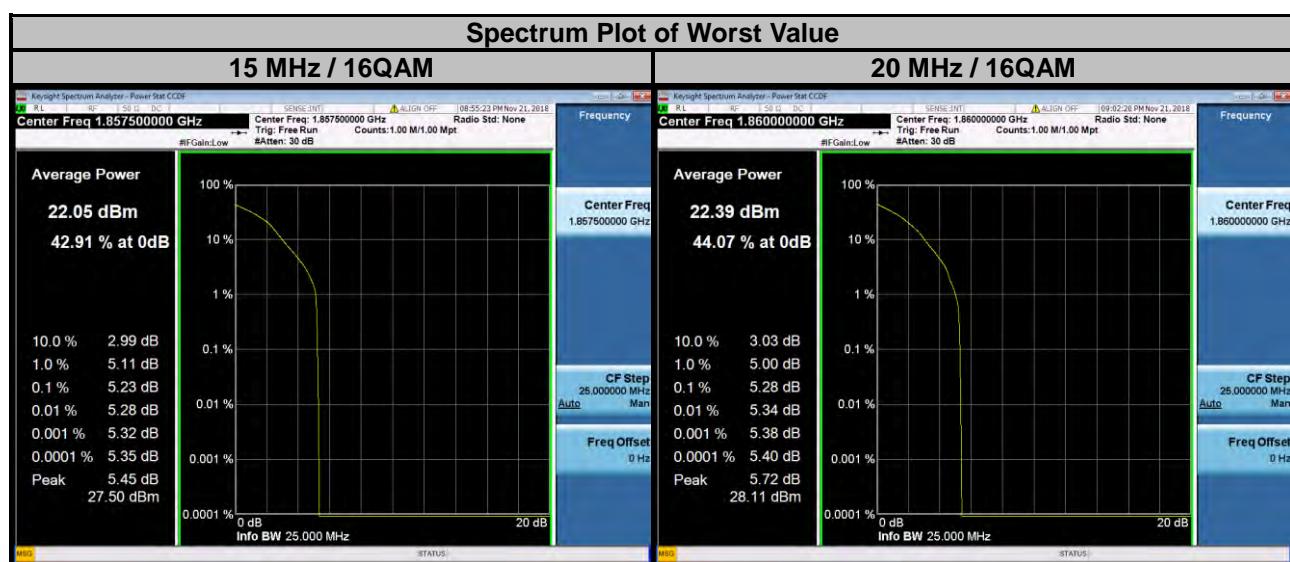
LTE Band 25							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	4.49	5.35	26055	1851.5	4.34	5.15
26365	1882.5	4.61	5.40	26365	1882.5	4.52	5.17
26683	1914.3	3.92	4.89	26675	1913.5	4.34	5.30



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	4.35	5.10	26090	1855.0	4.42	4.87
26365	1882.5	4.49	5.44	26365	1882.5	4.29	4.86
26665	1912.5	4.51	5.38	26640	1910.0	4.32	5.52



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	4.43	5.23	26140	1860.0	4.45	5.28
26365	1882.5	4.15	4.84	26365	1882.5	4.30	5.15
26615	1907.5	4.28	4.95	26590	1905.0	4.48	5.10

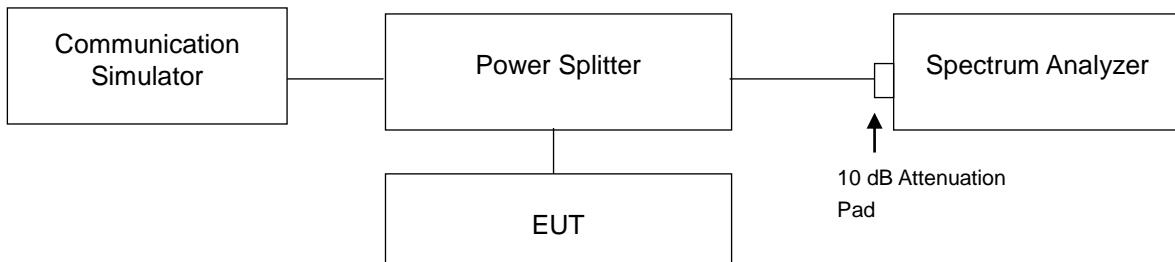


4.7 Conducted Spurious Emissions

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.

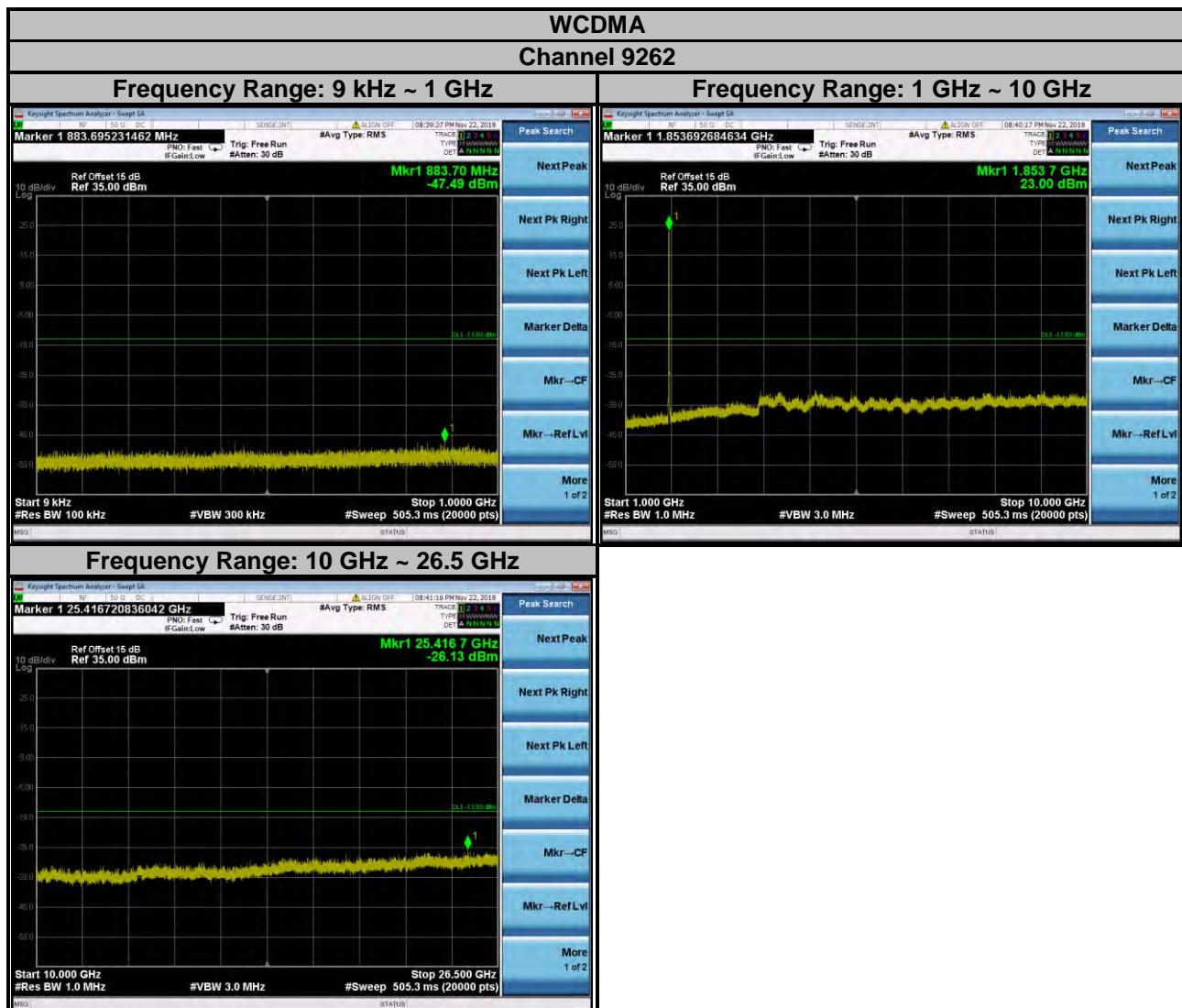
4.7.2 Test Setup



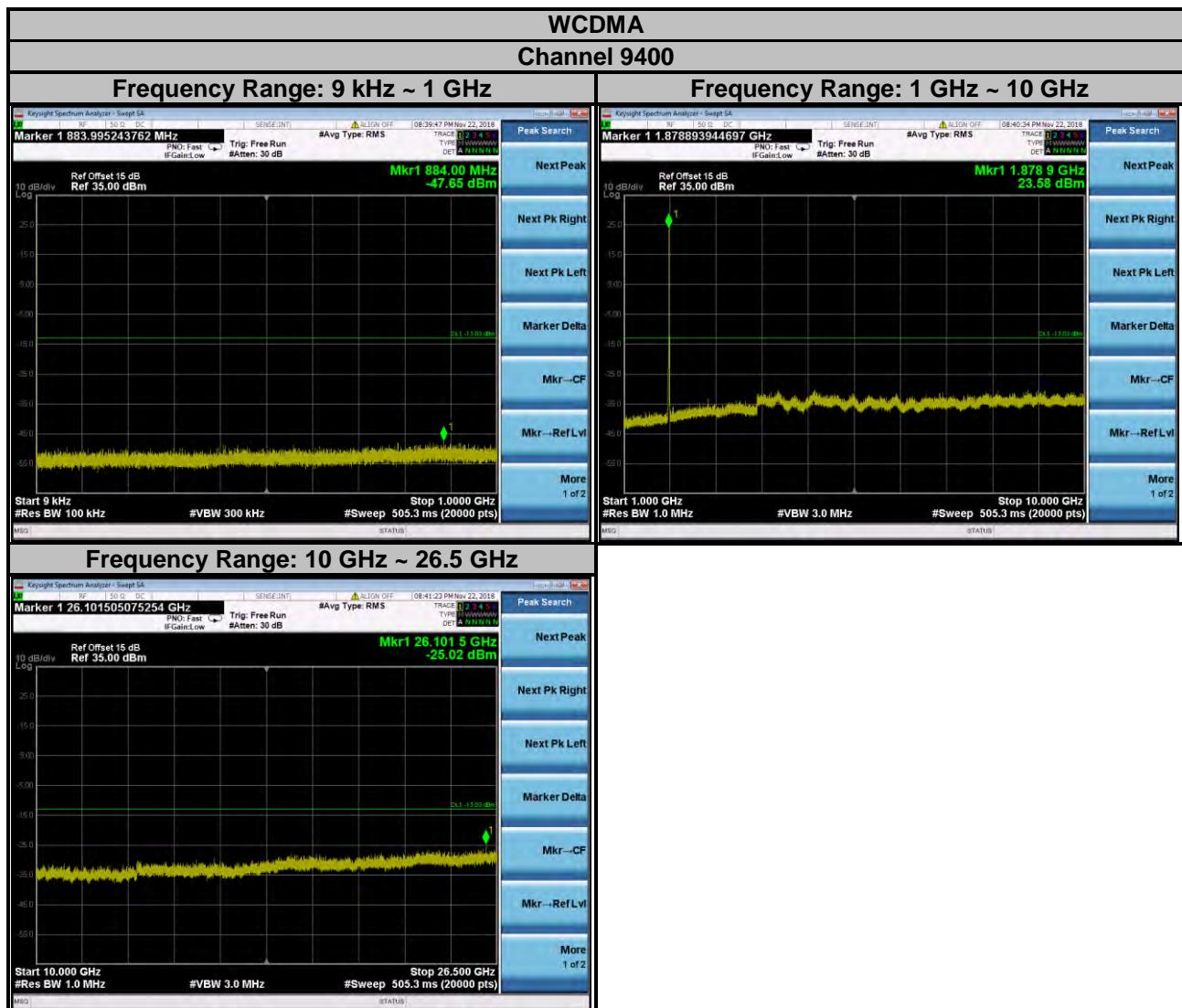
4.7.3 Test Procedure

- 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 = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.
- Measuring frequency range is from 1 GHz to 26.5 GHz / 27 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.
- Spectrum RBW settings are referenced to ANSI 63.2-1996 section 8.2.2 and ANSI 63.26 section 5.7.2.

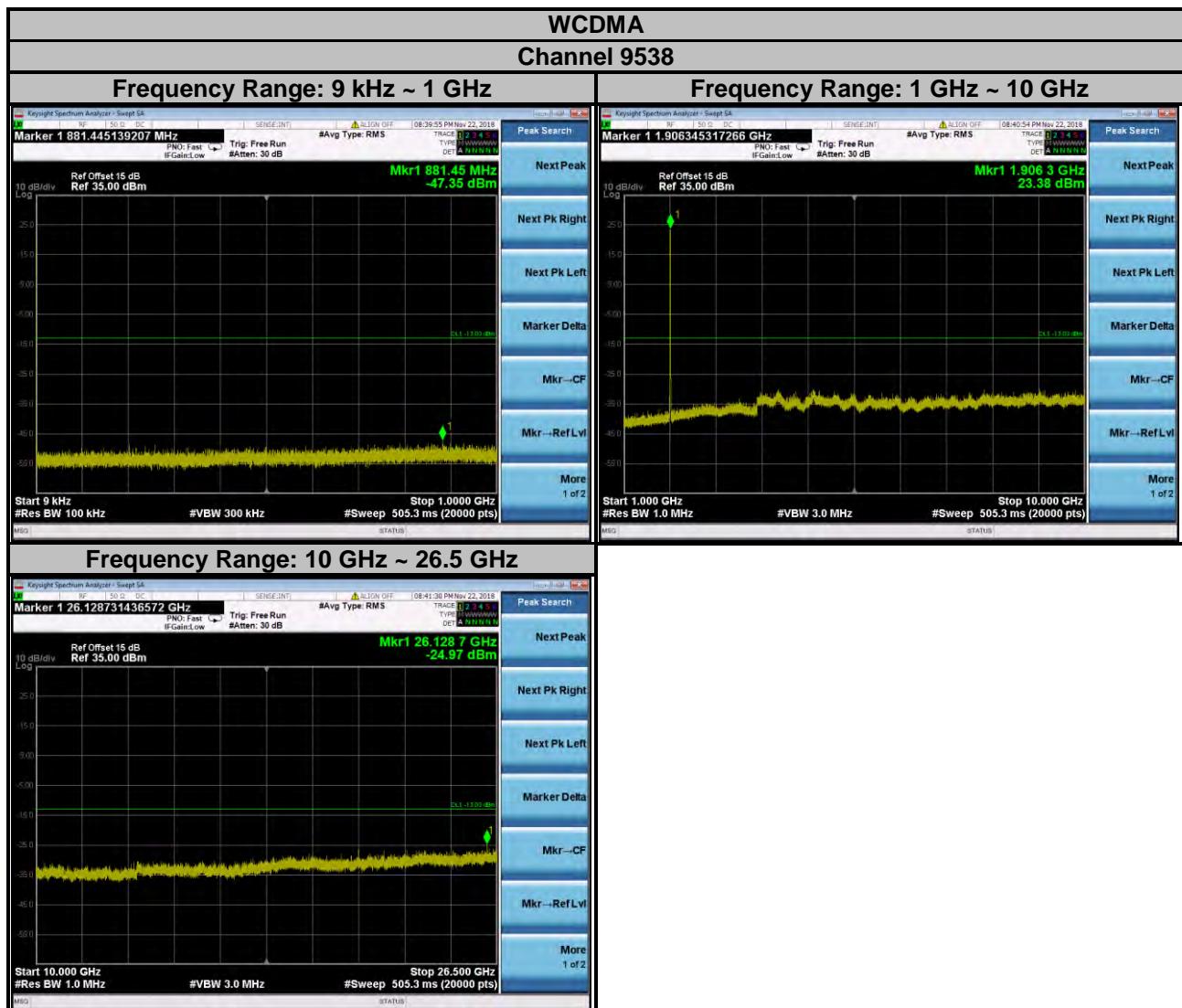
4.7.4 Test Results



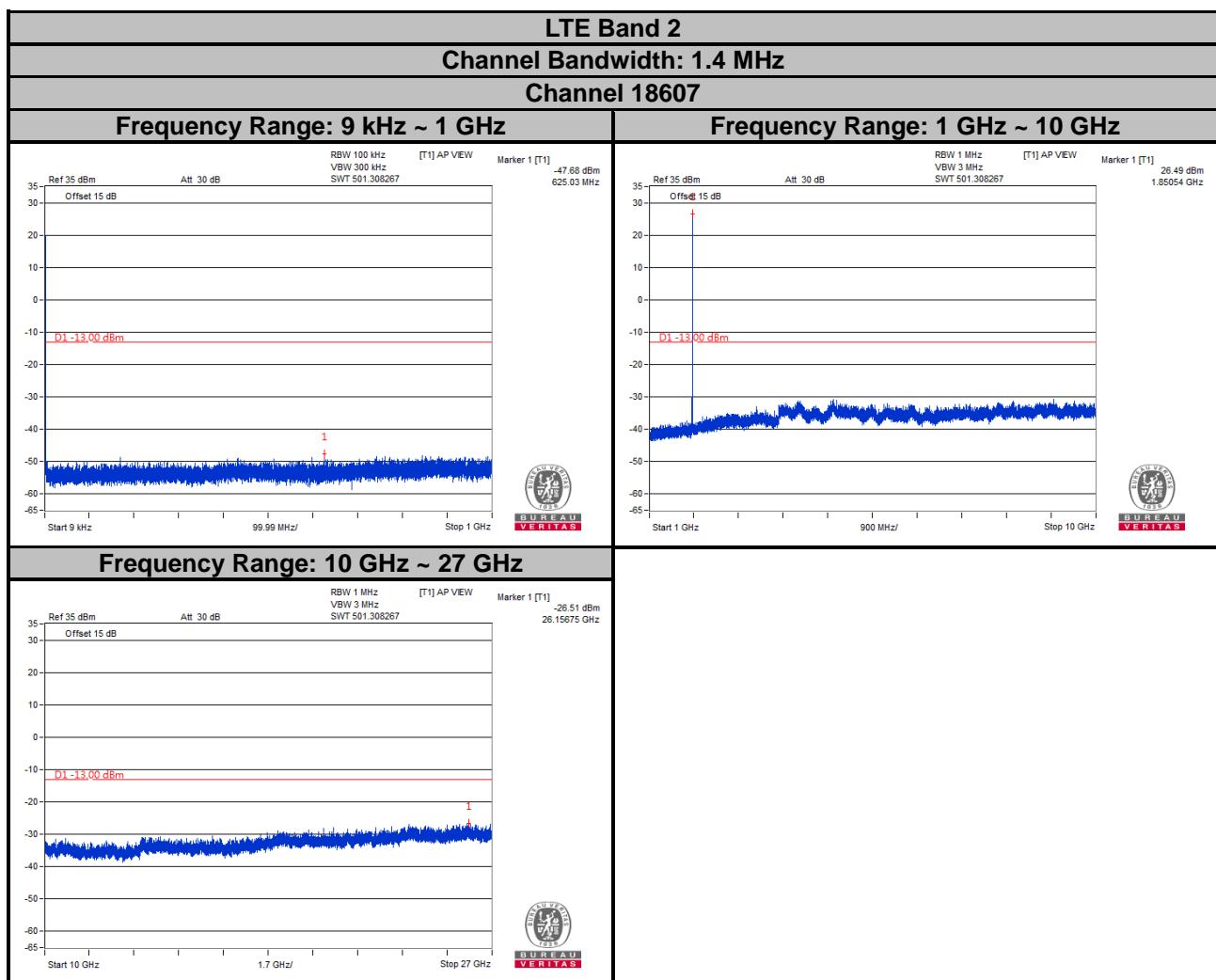
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



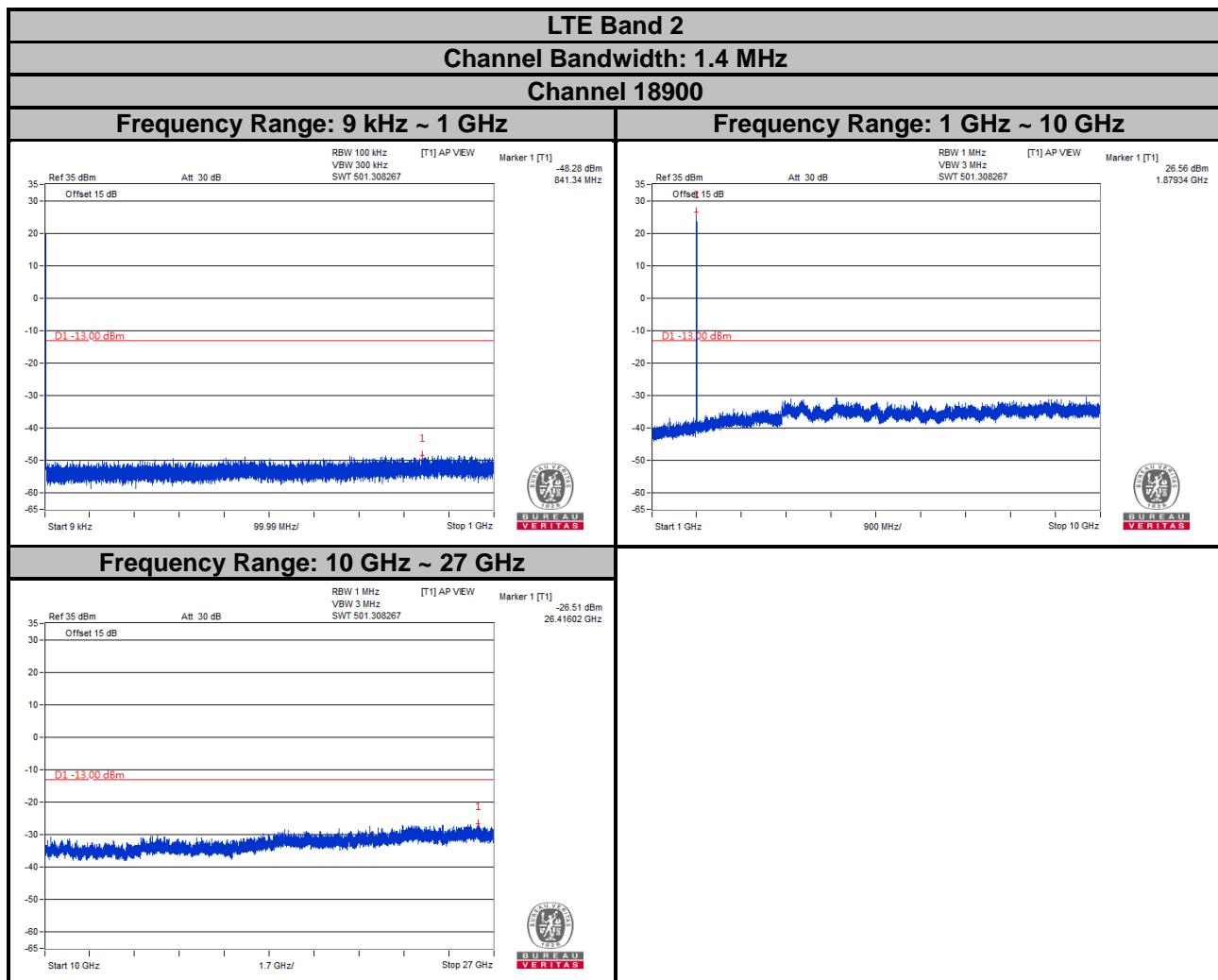
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



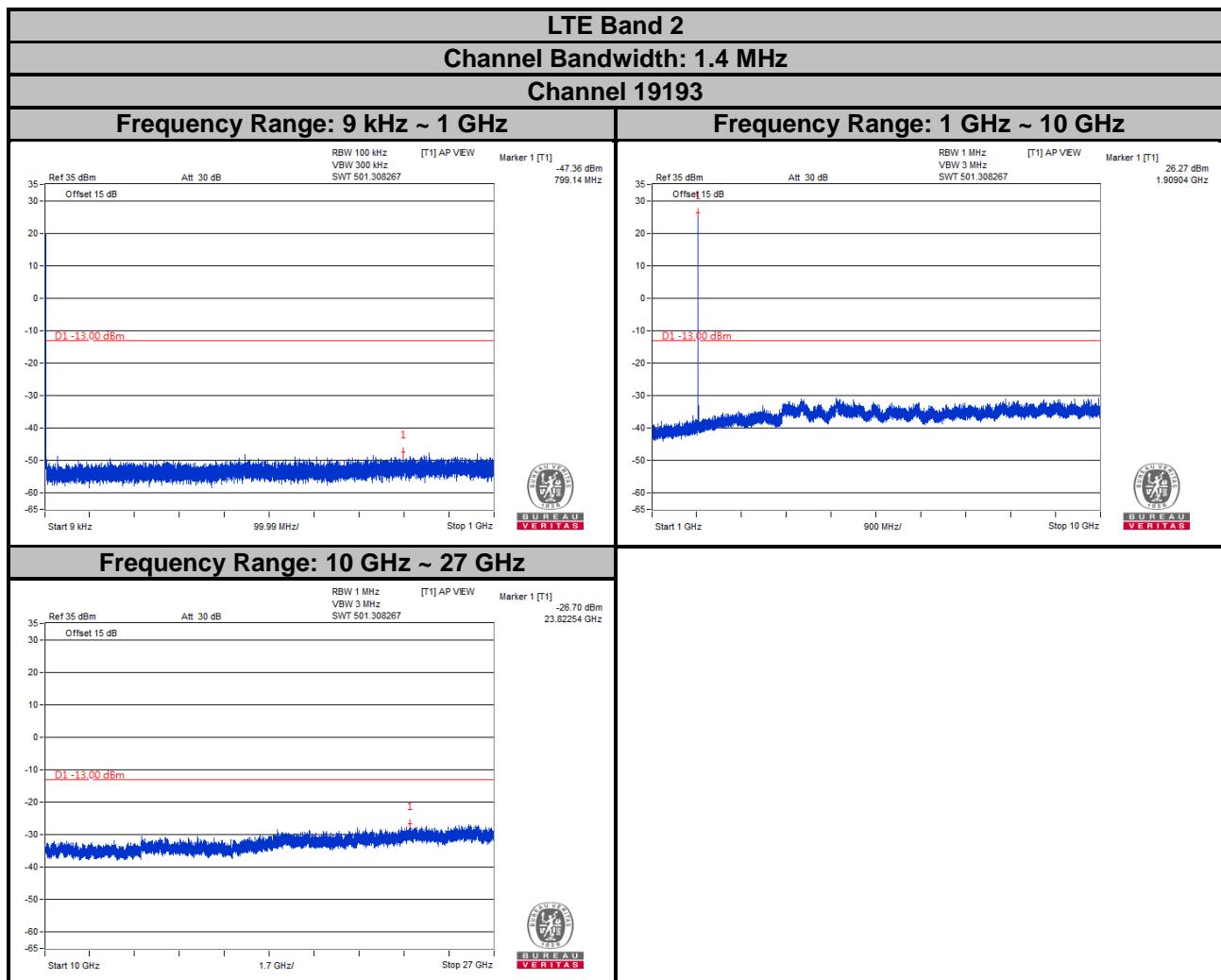
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



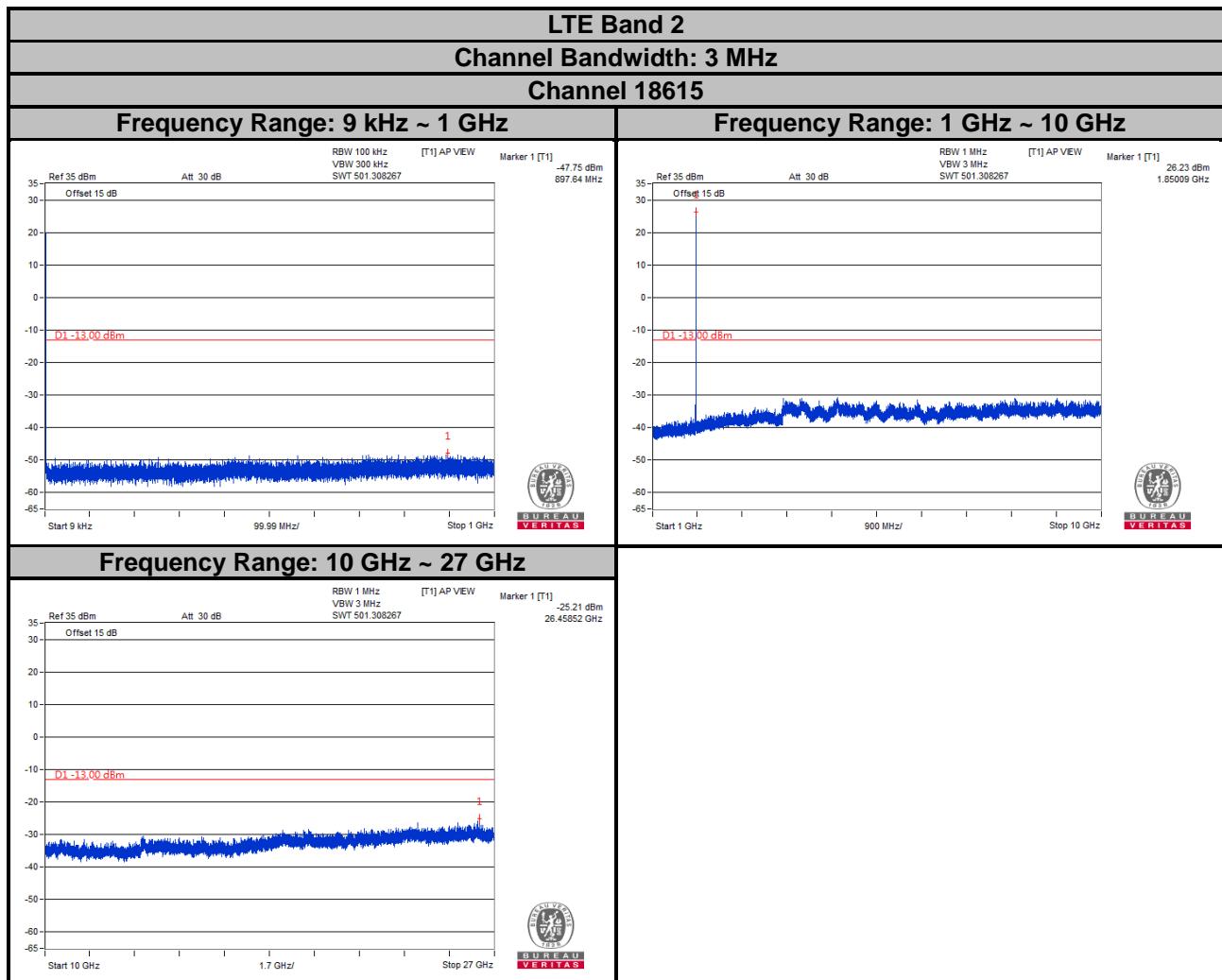
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



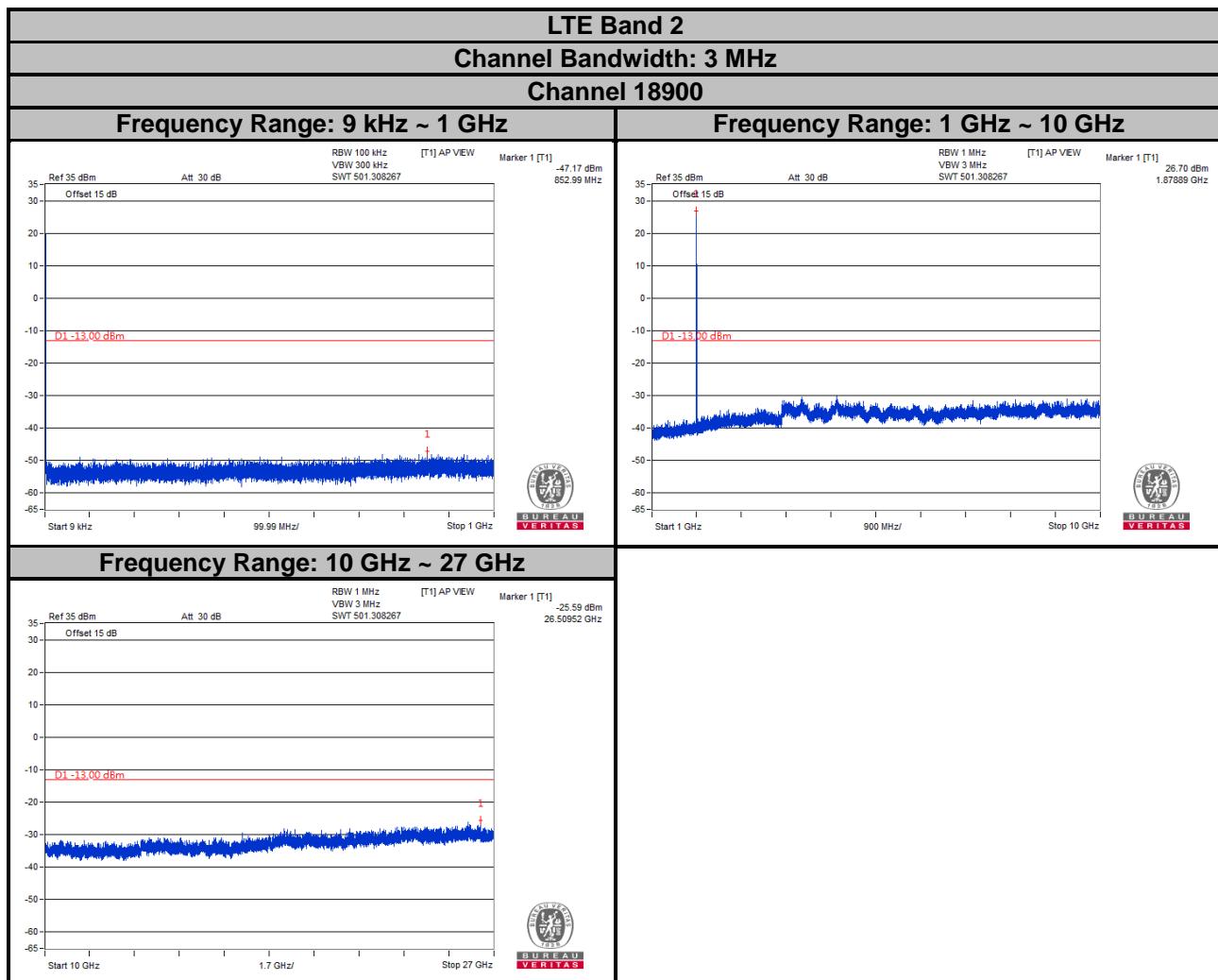
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



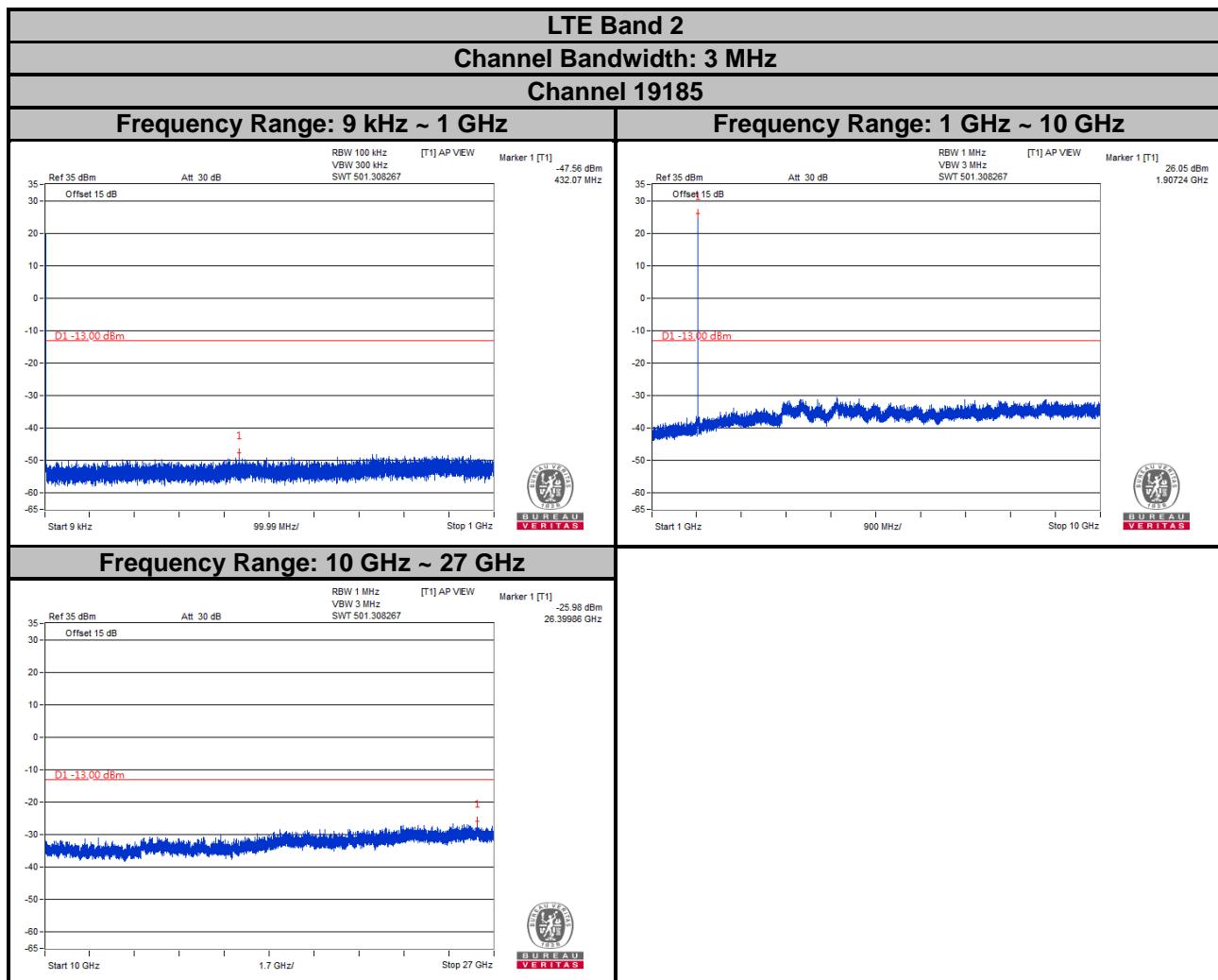
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



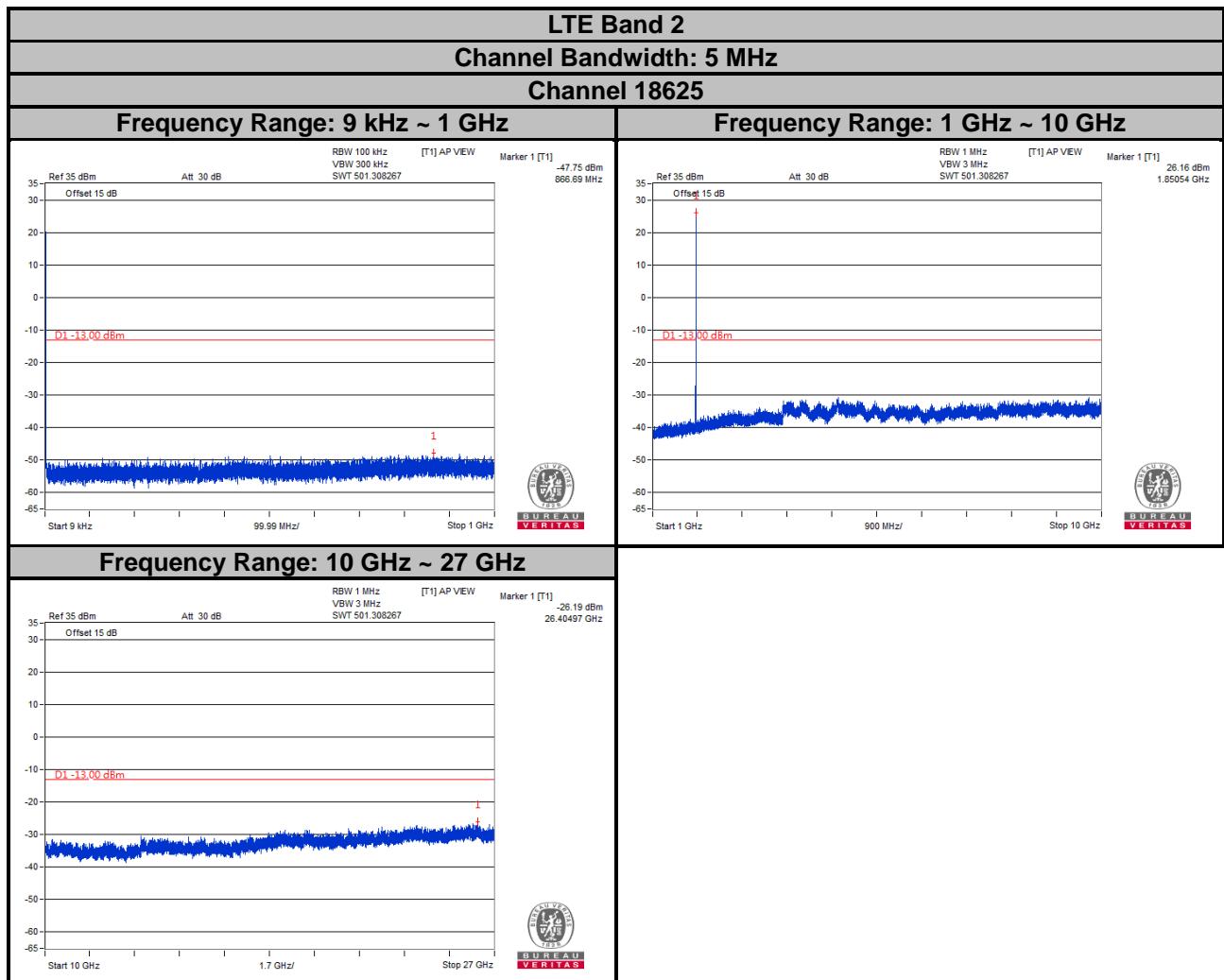
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



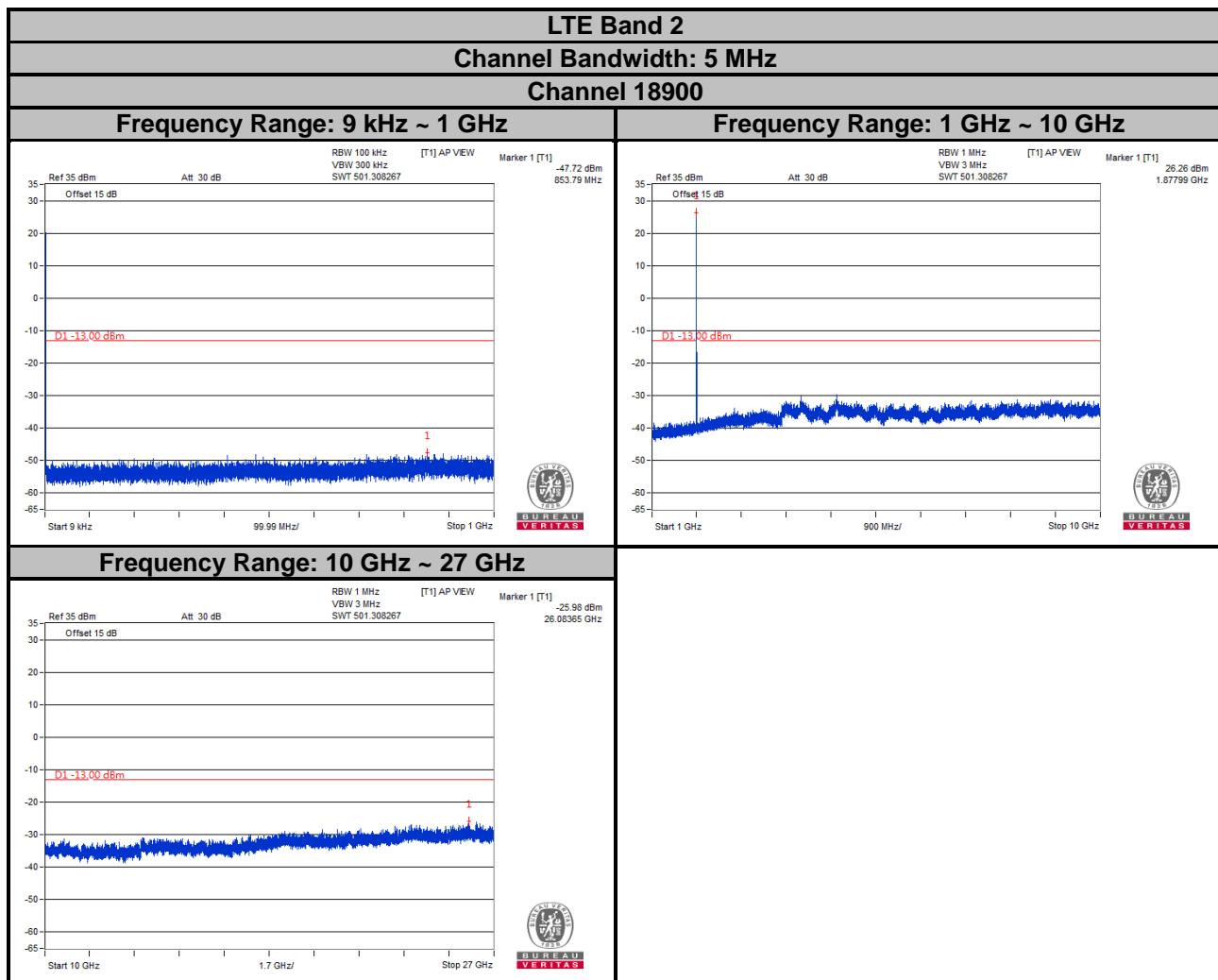
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



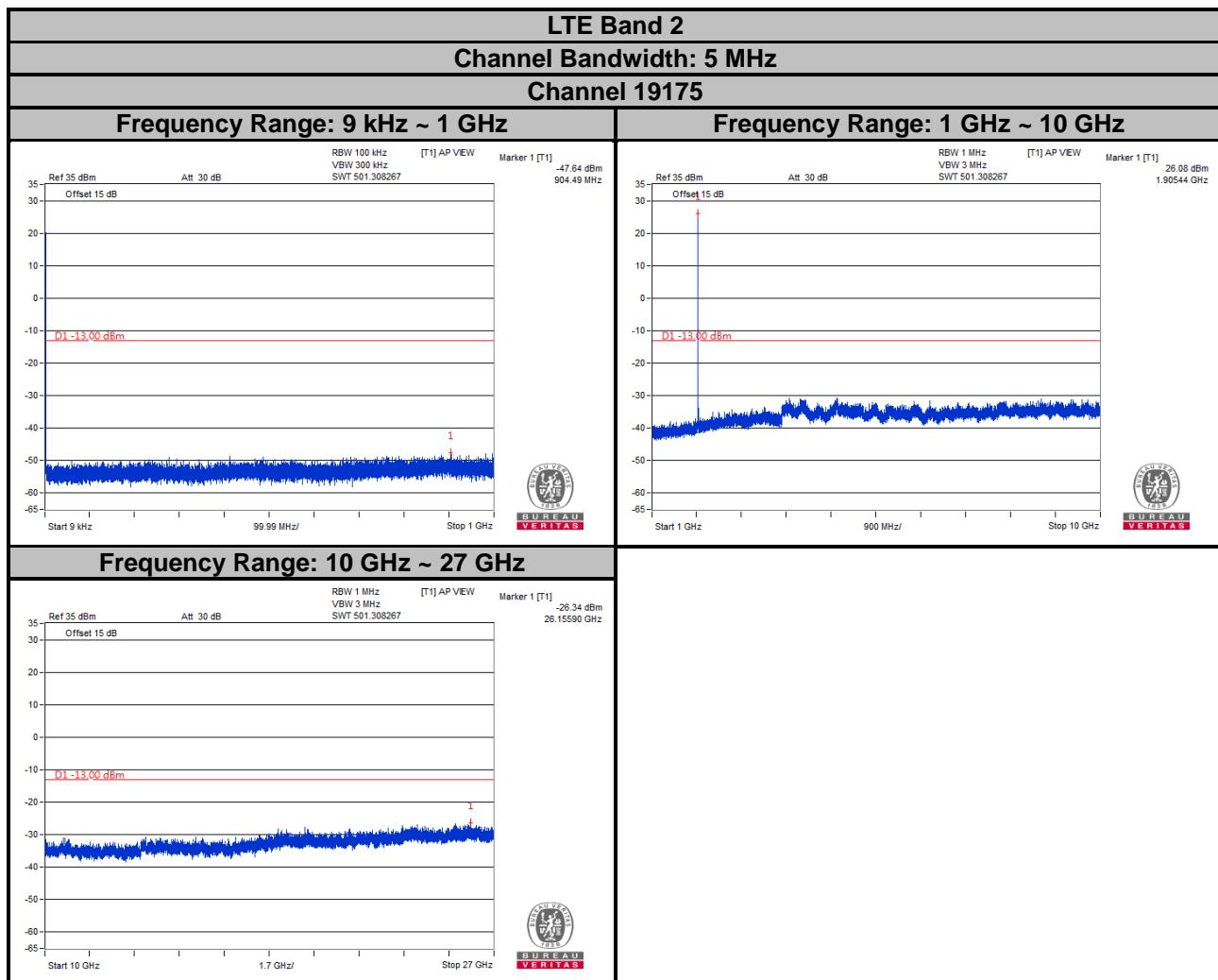
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



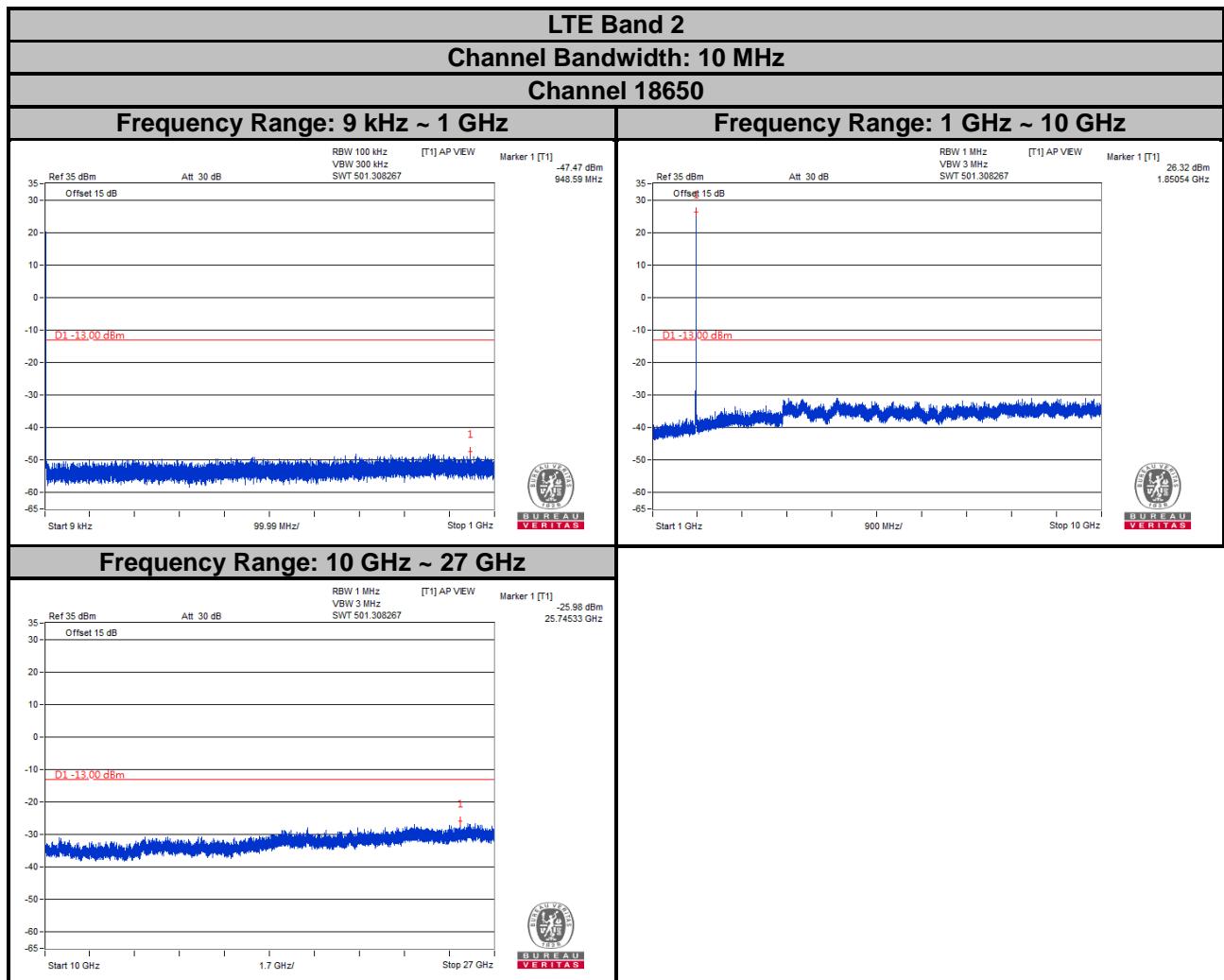
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



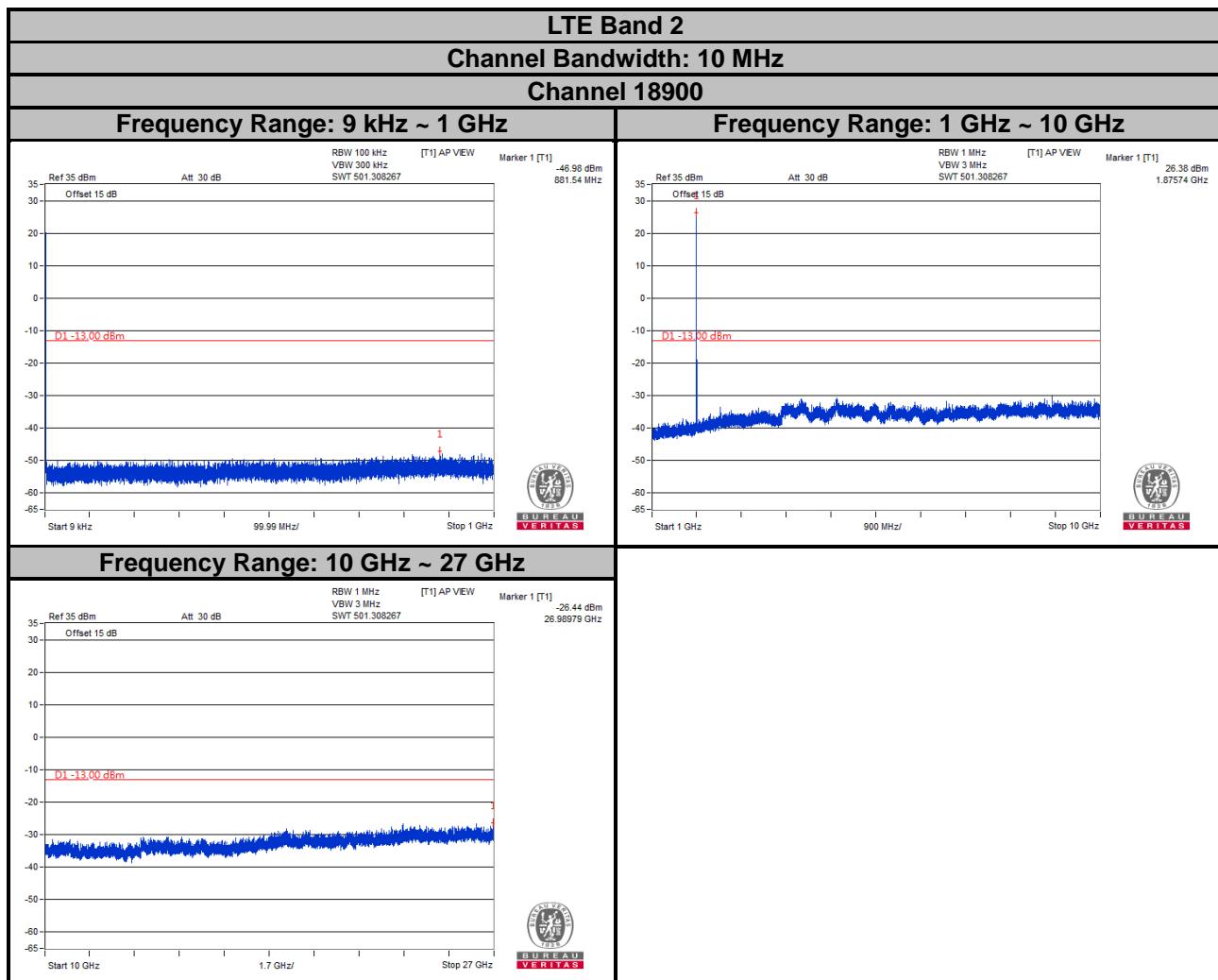
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



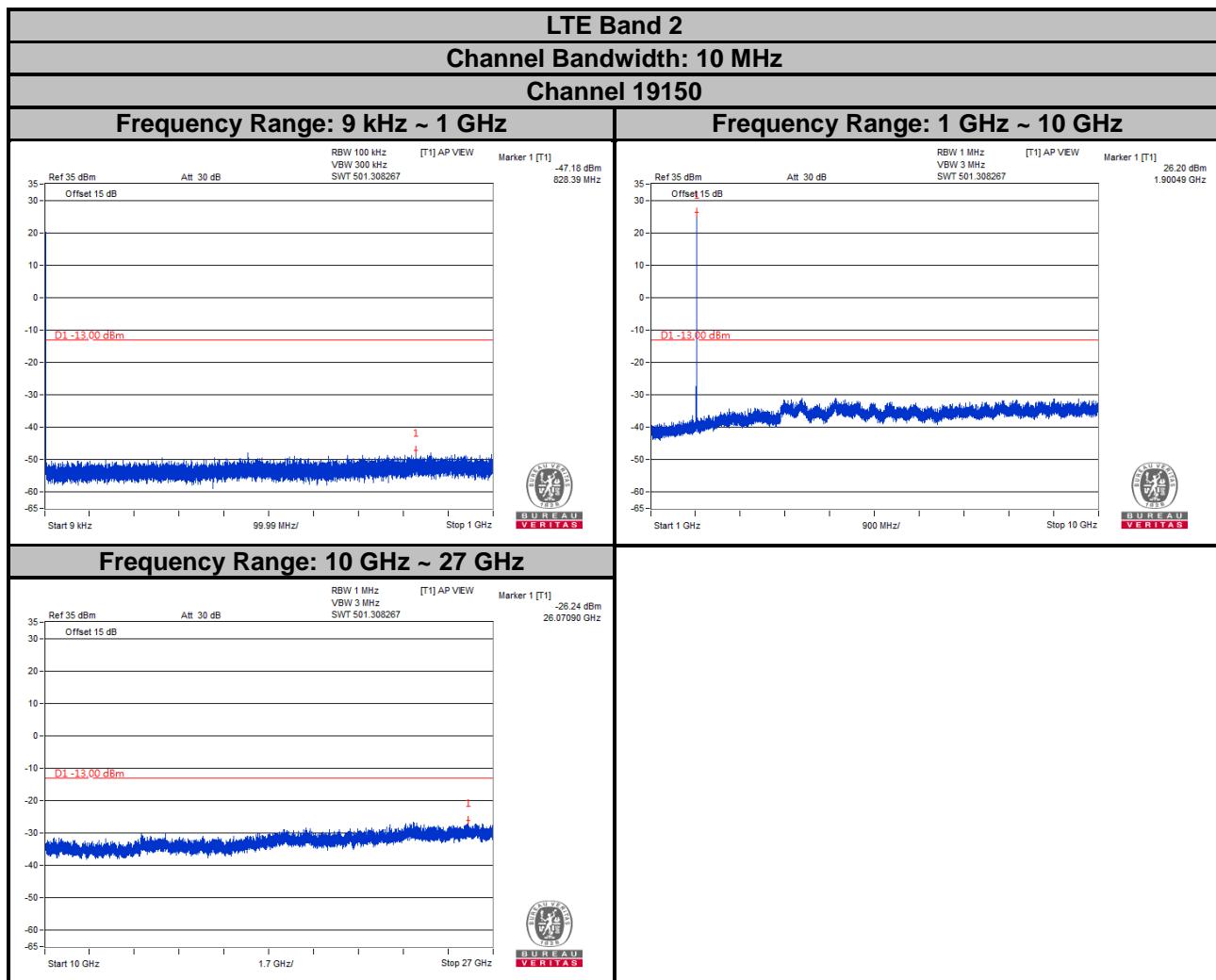
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



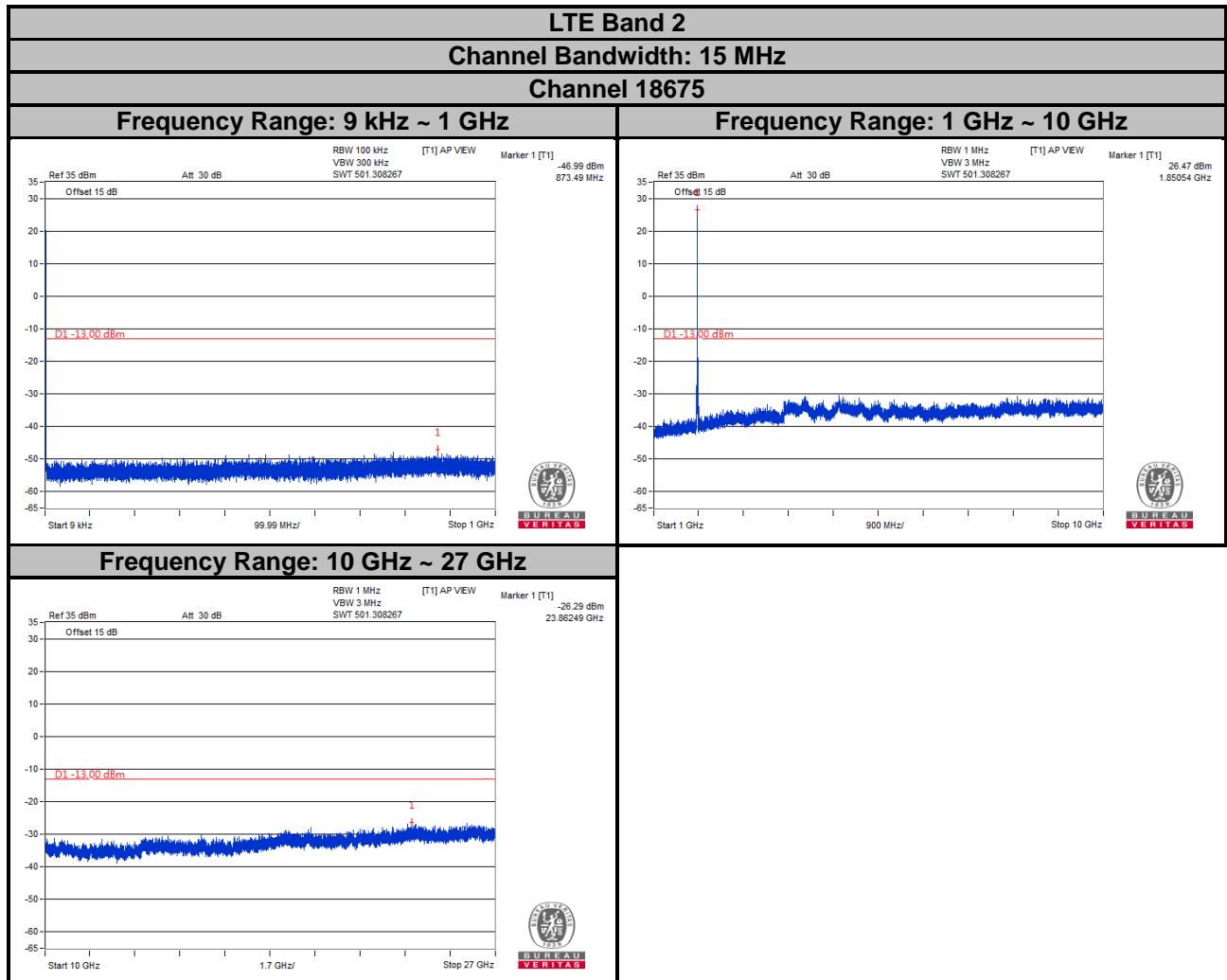
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



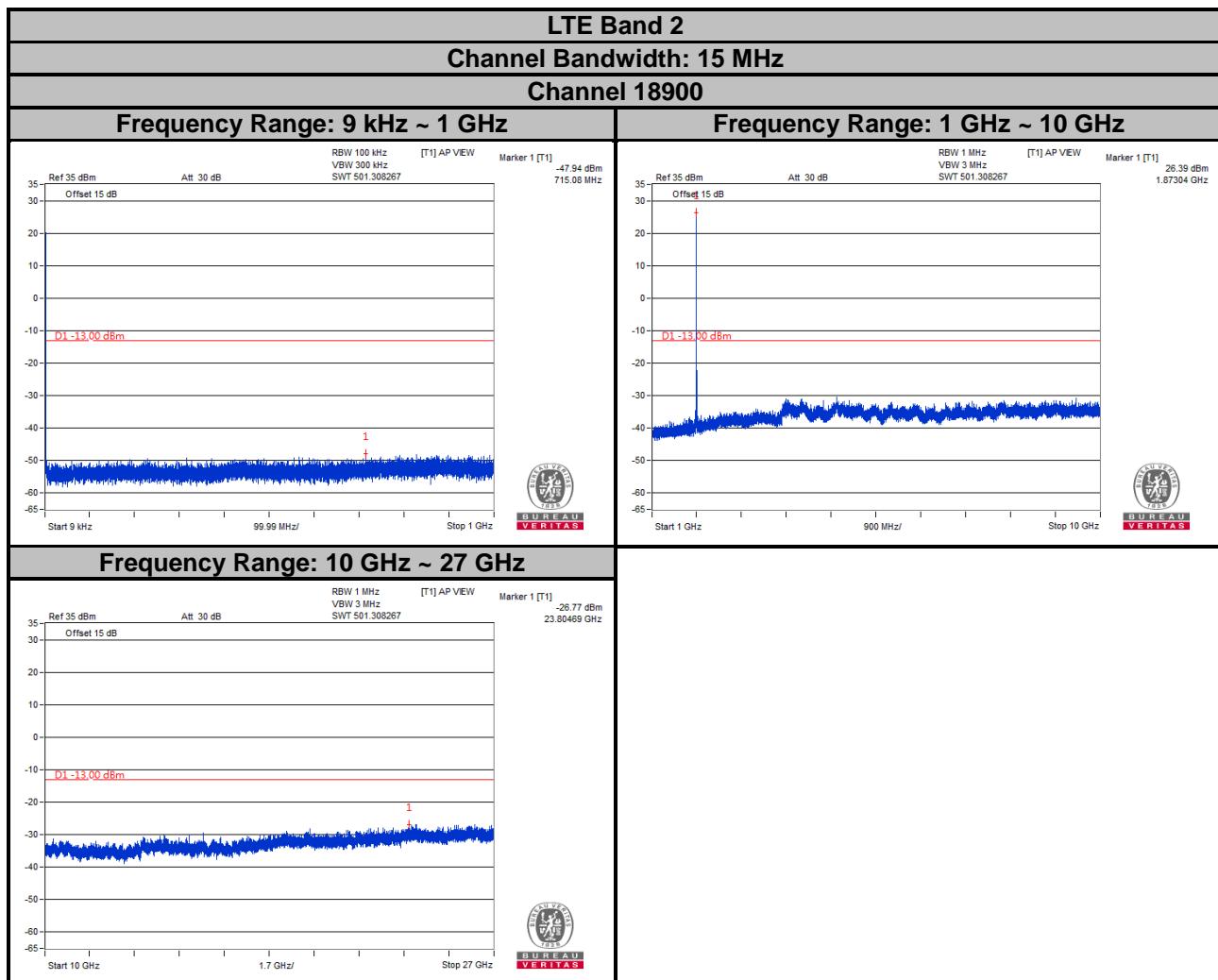
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



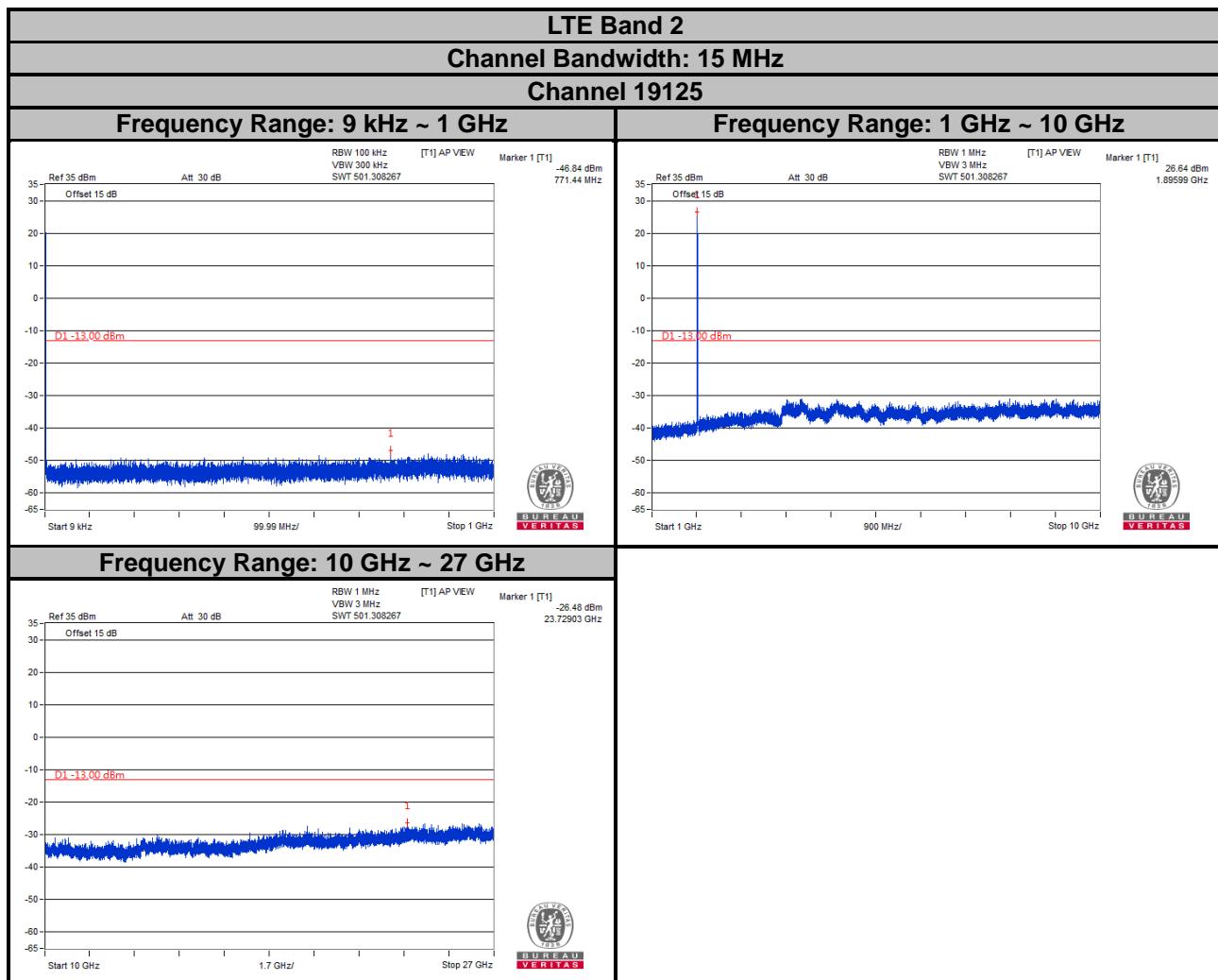
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



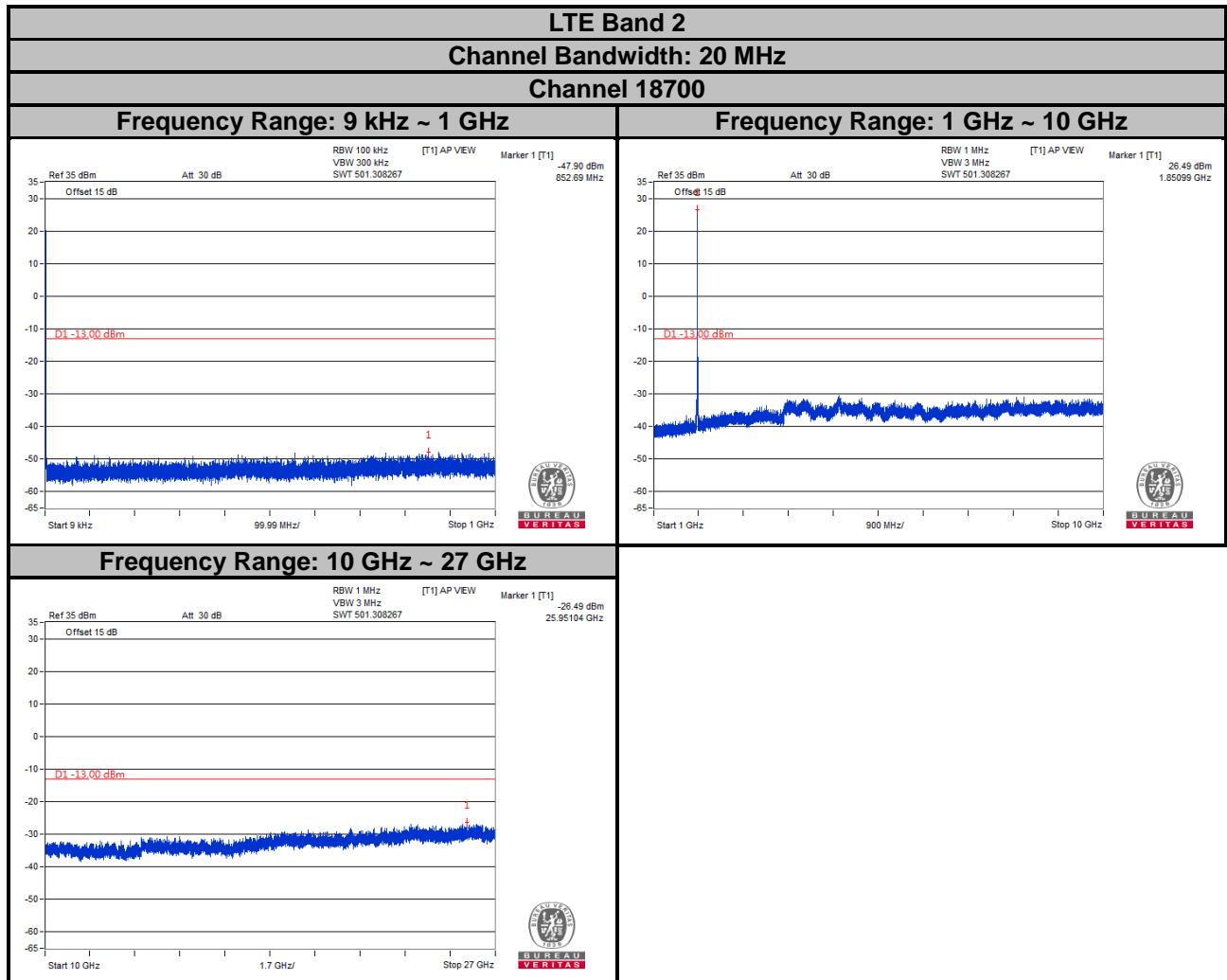
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



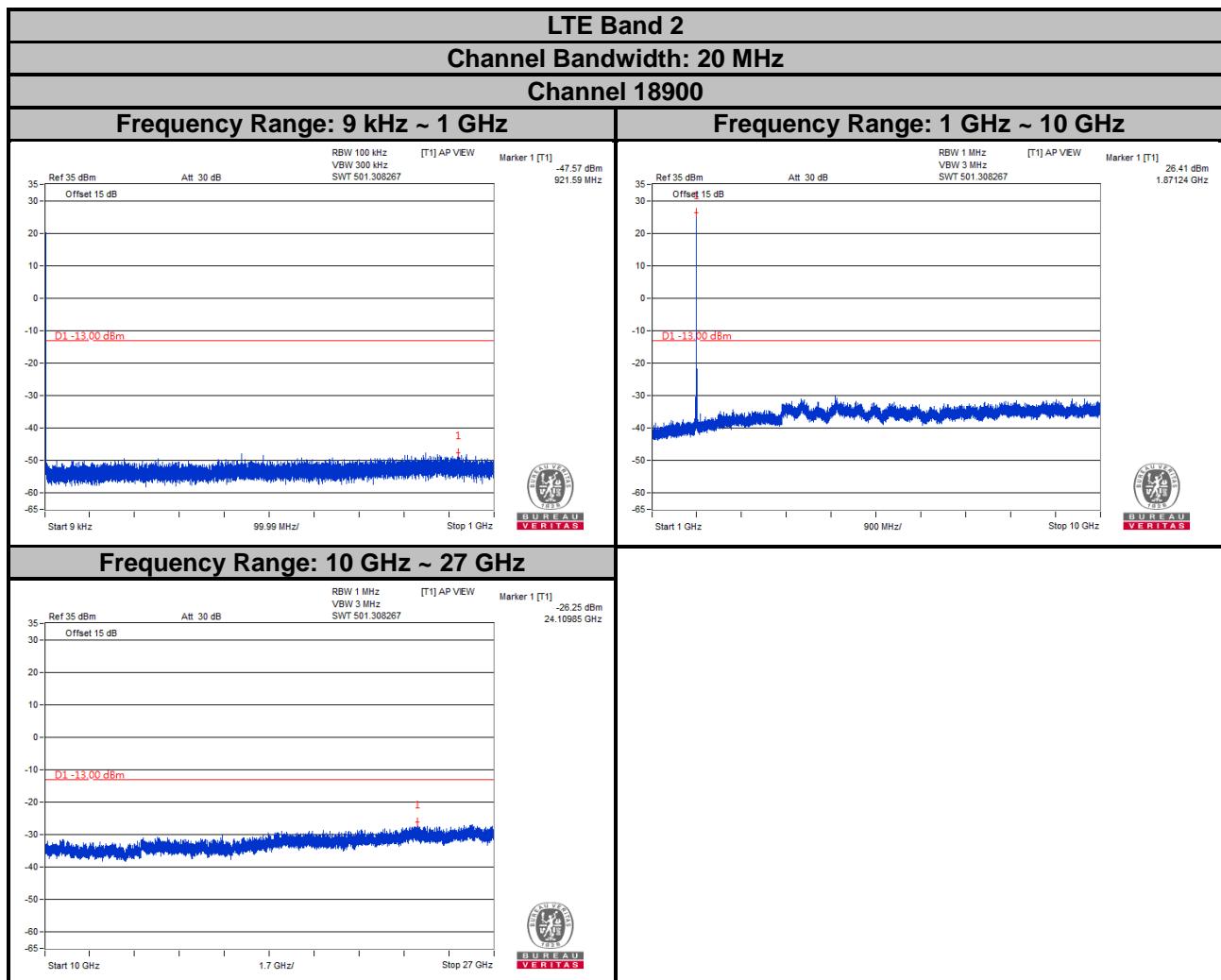
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



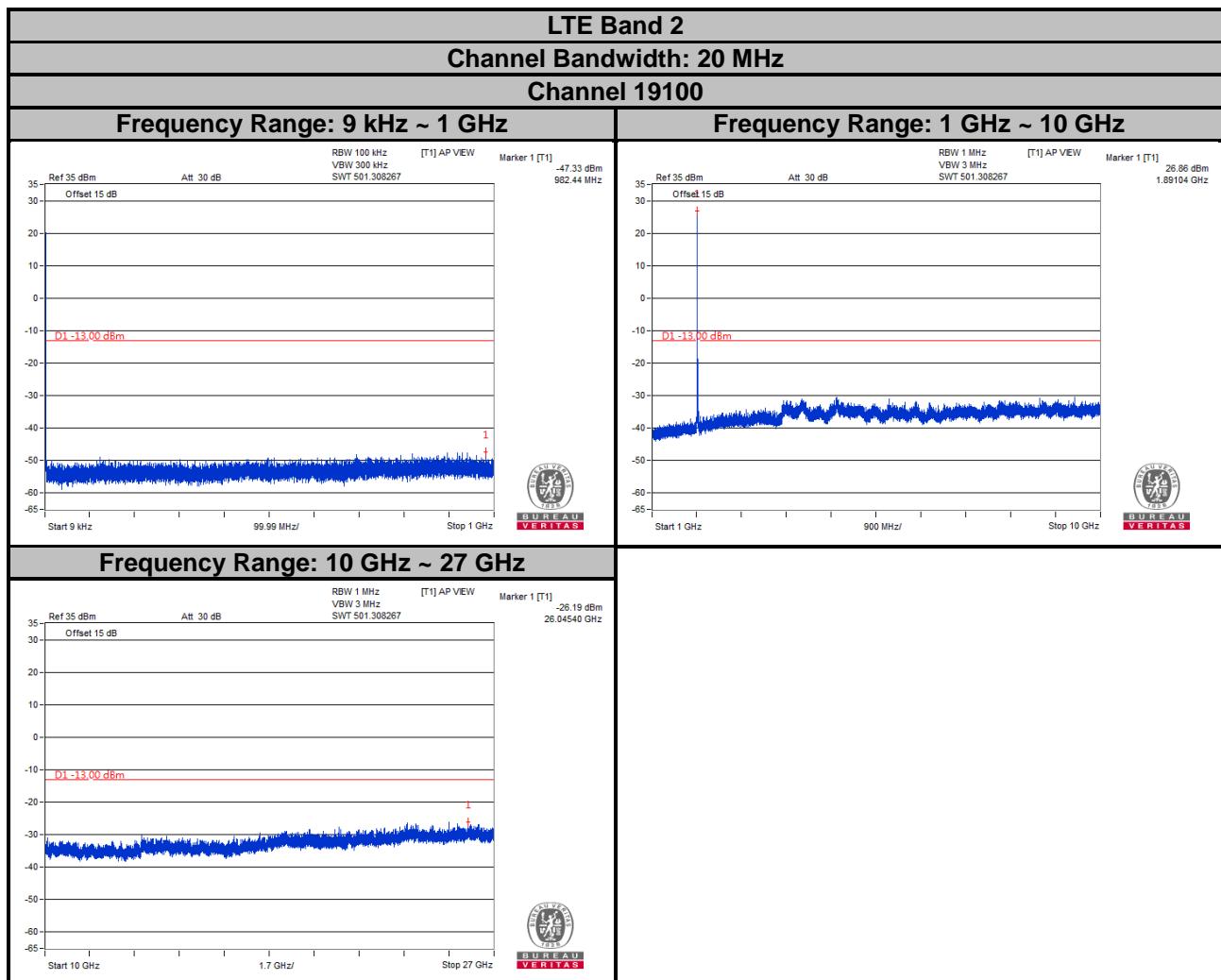
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



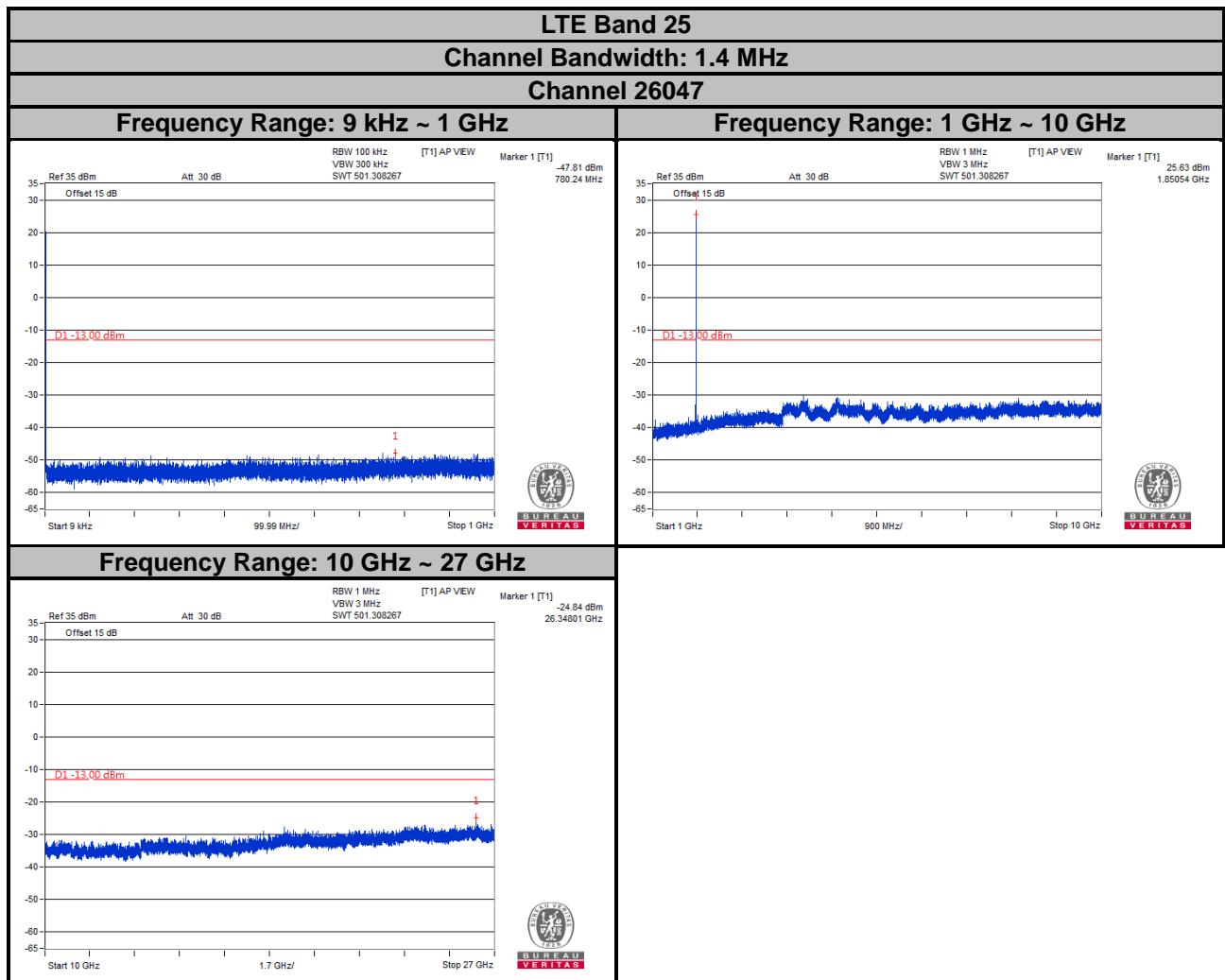
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



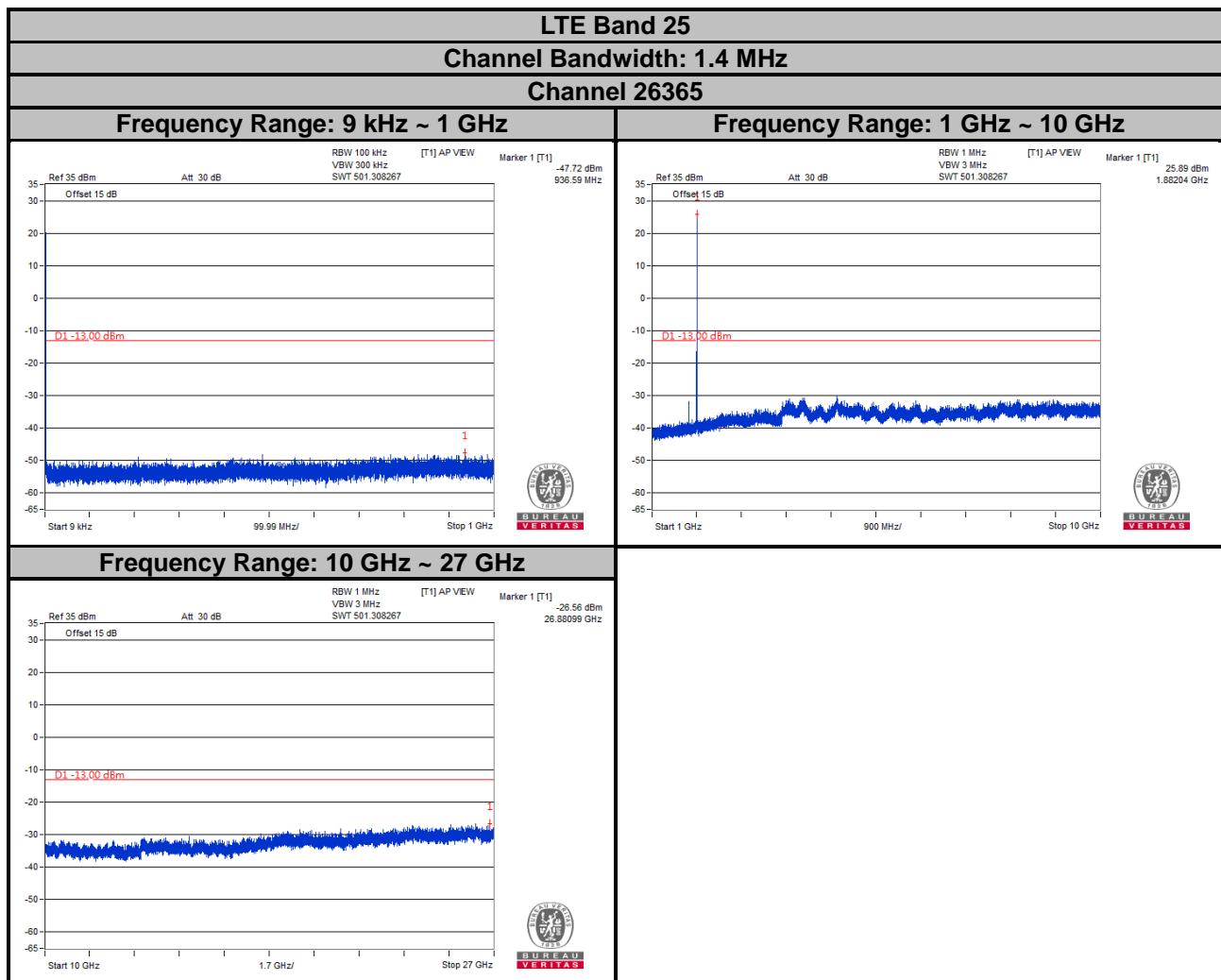
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



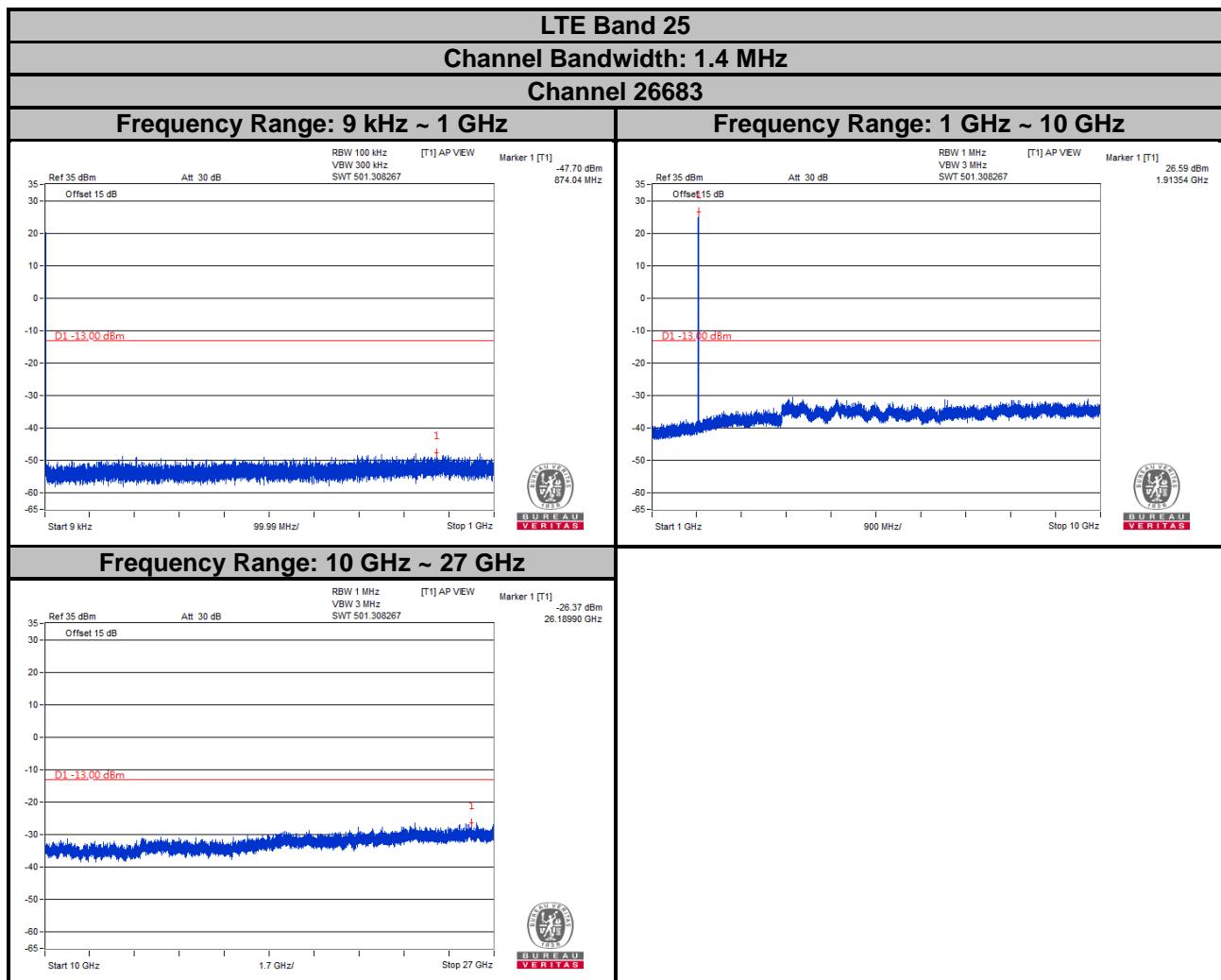
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



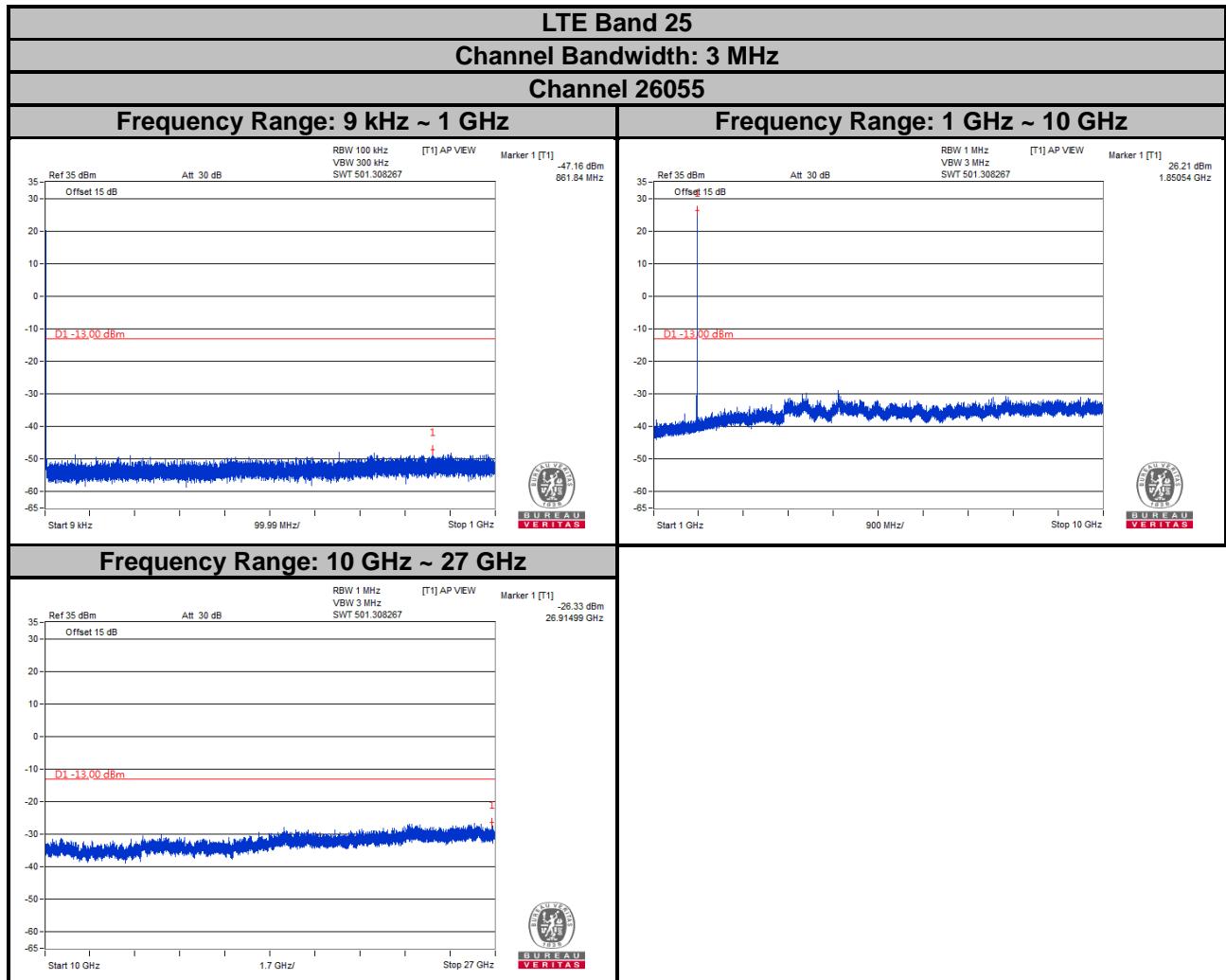
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



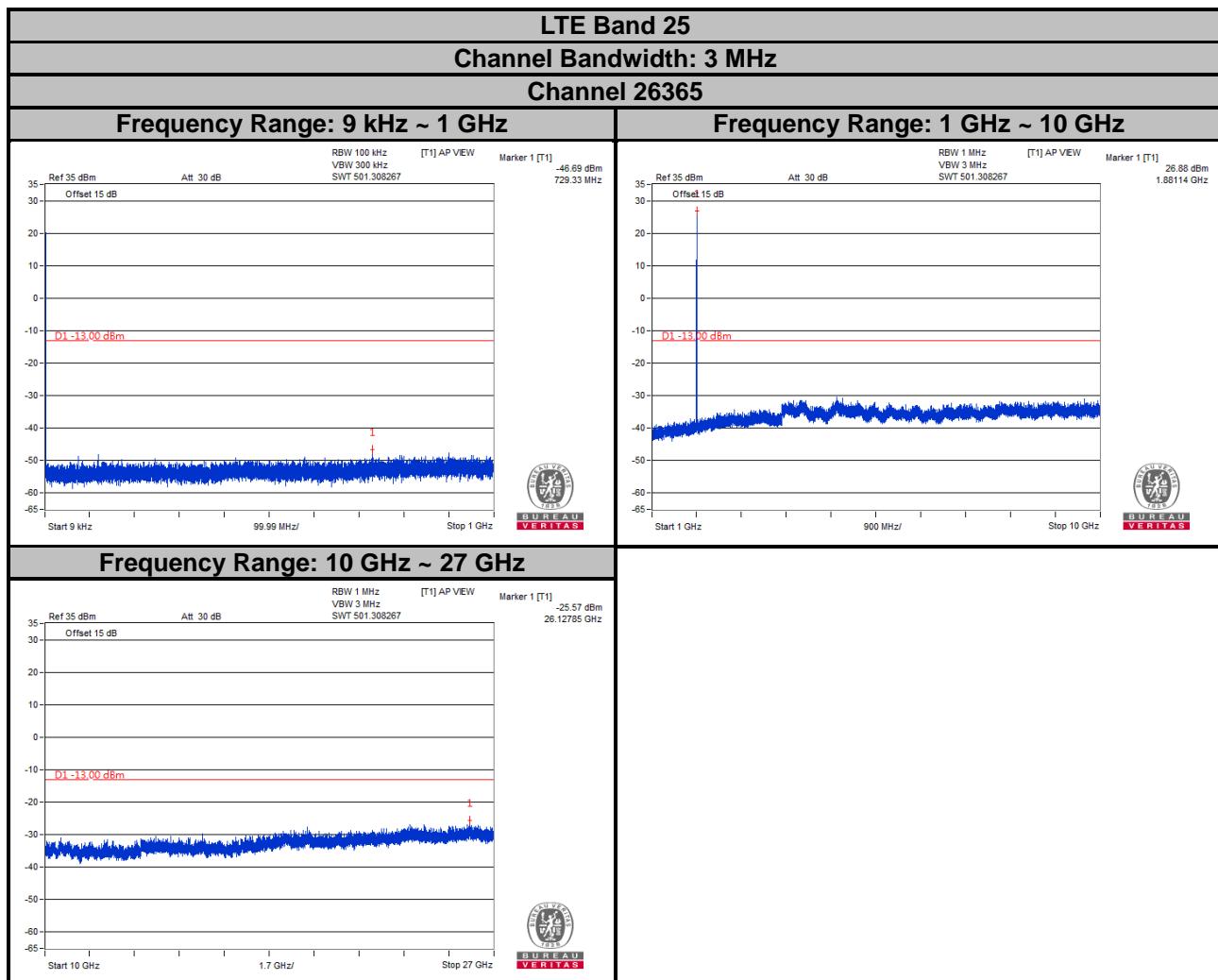
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



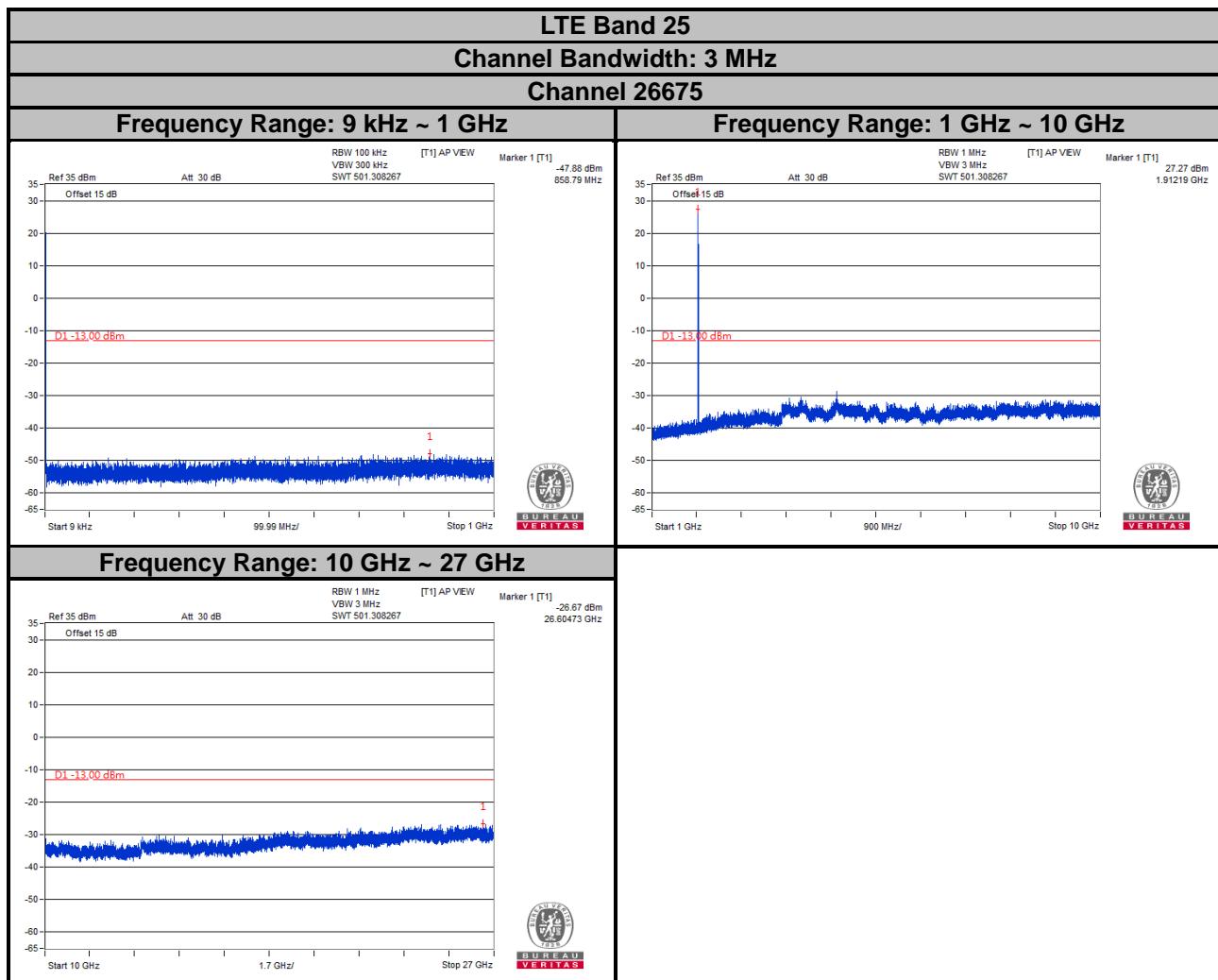
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



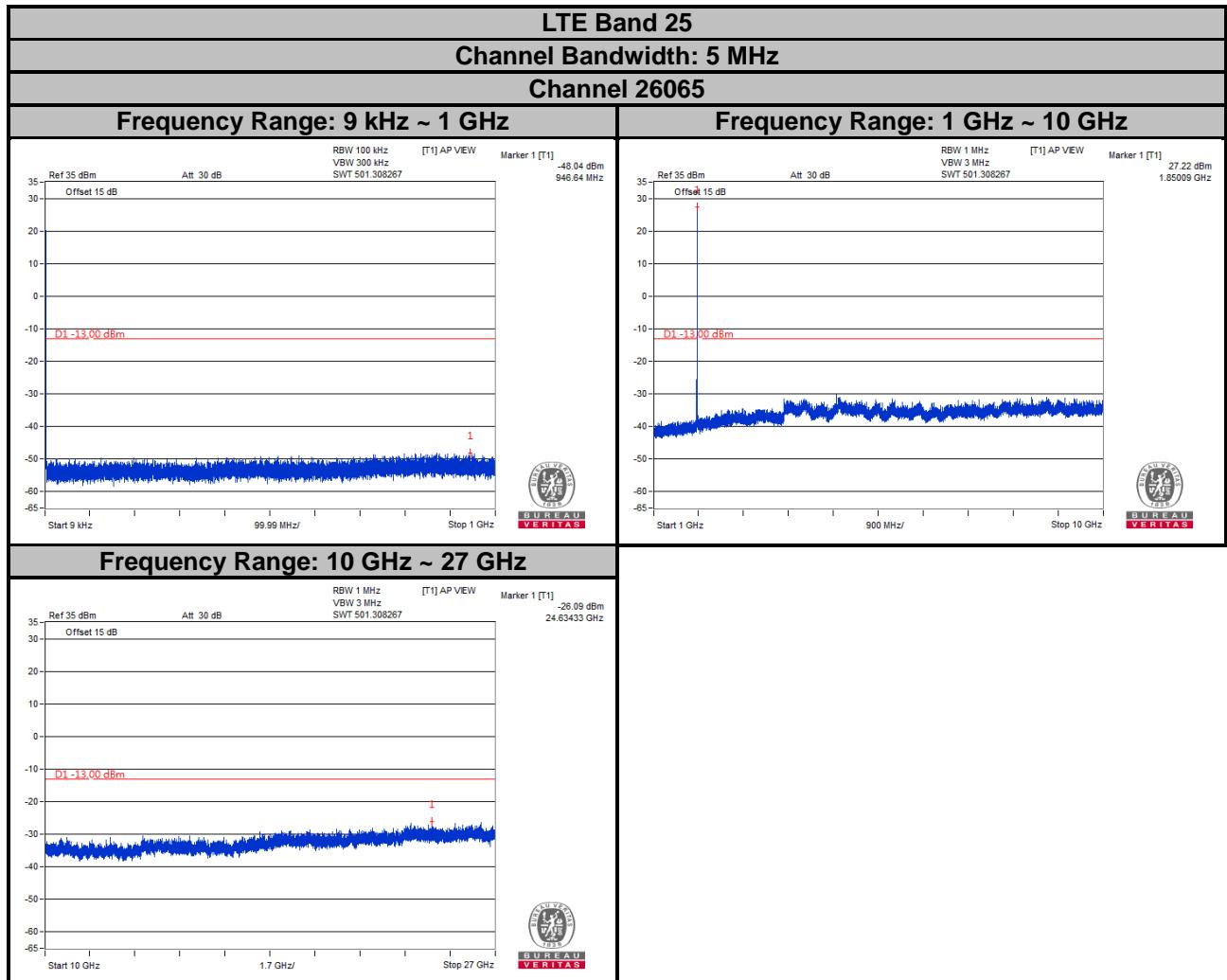
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



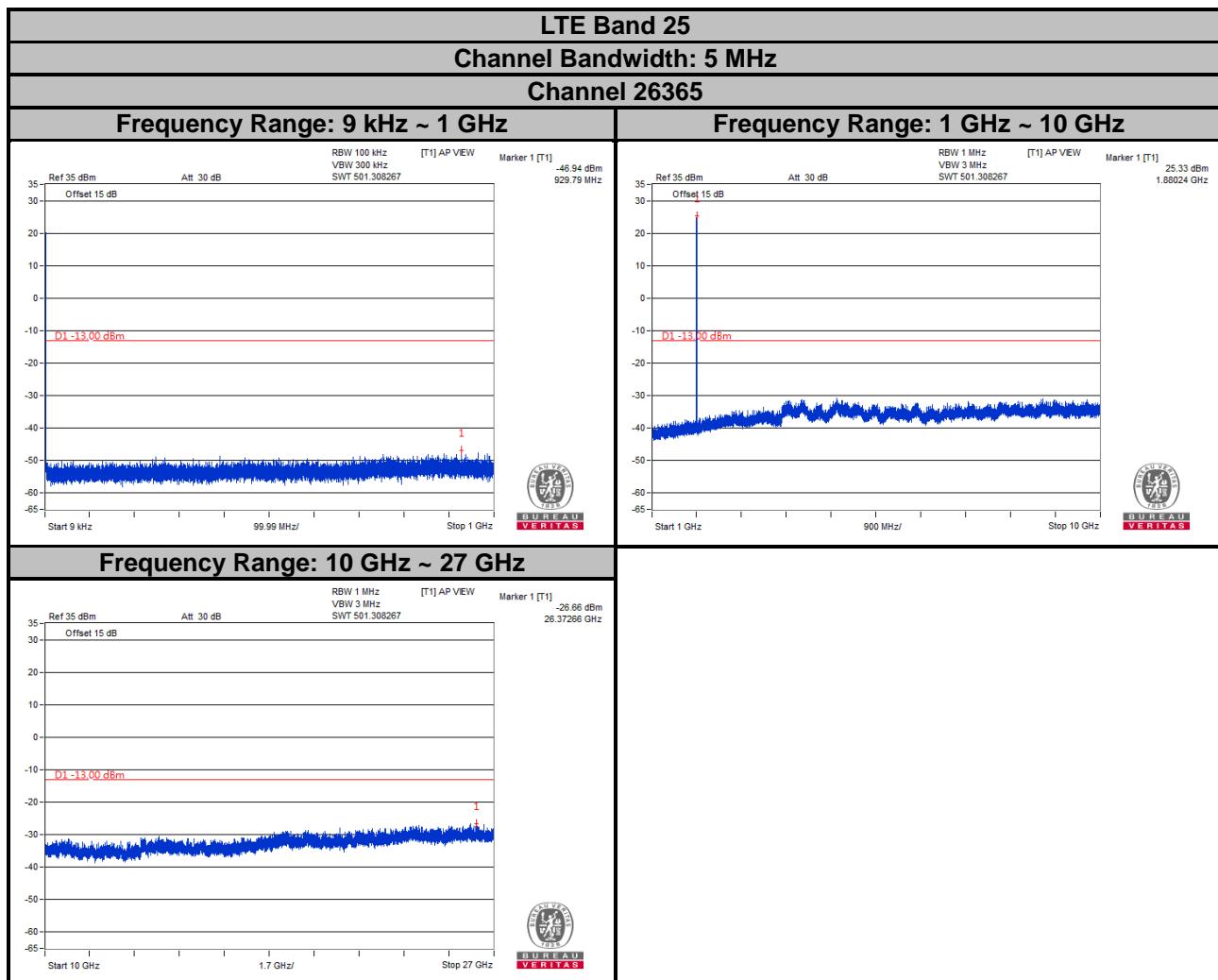
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



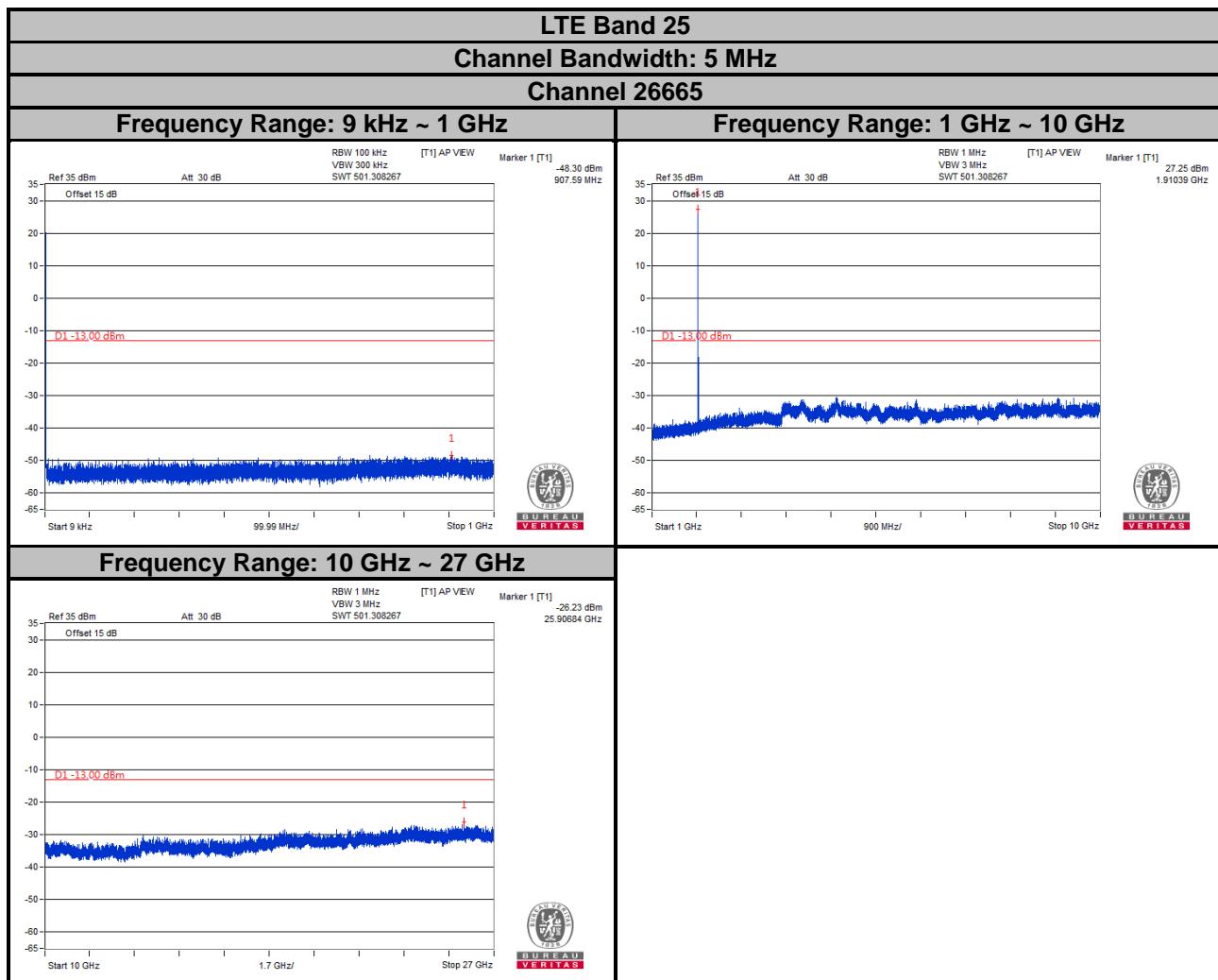
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



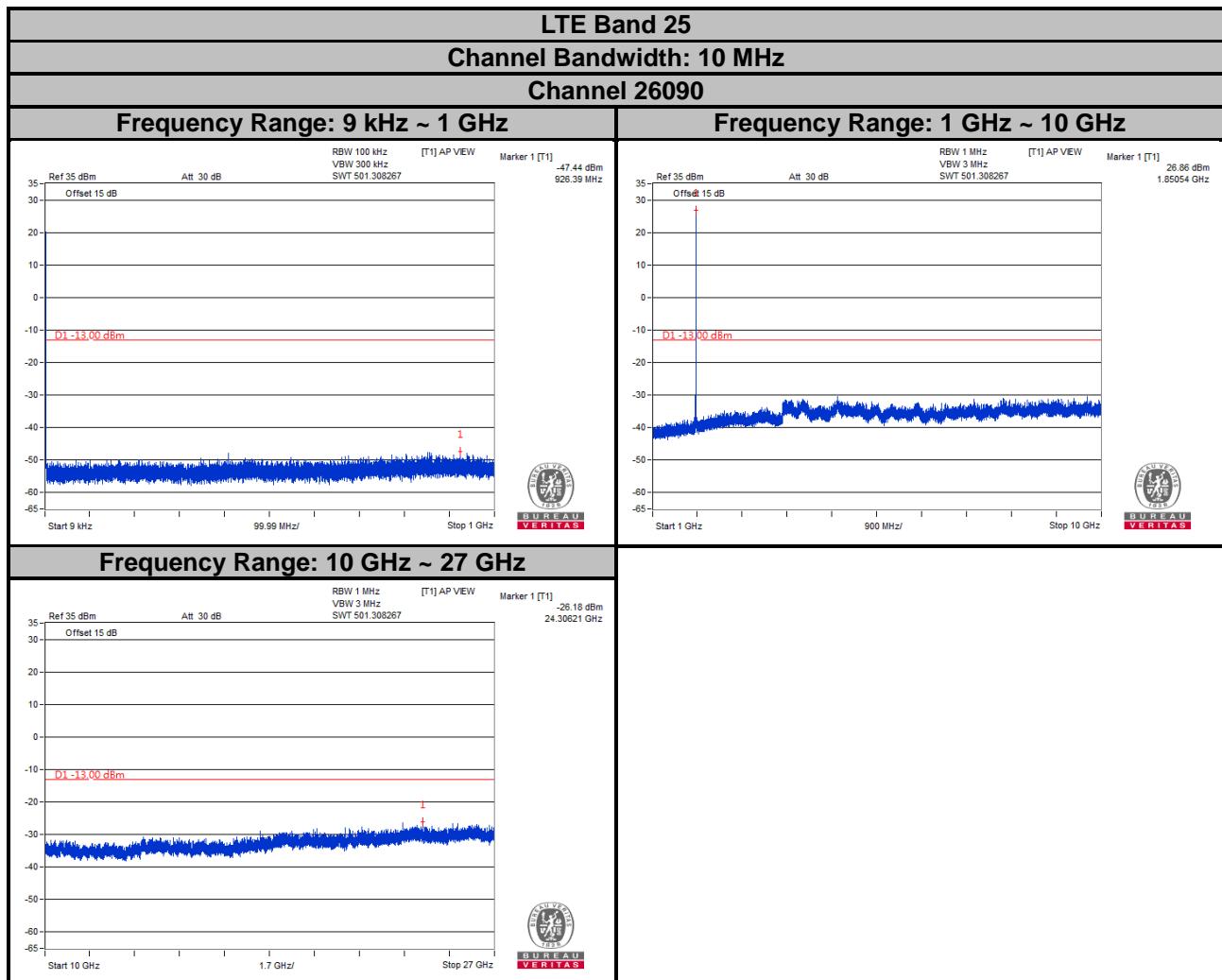
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



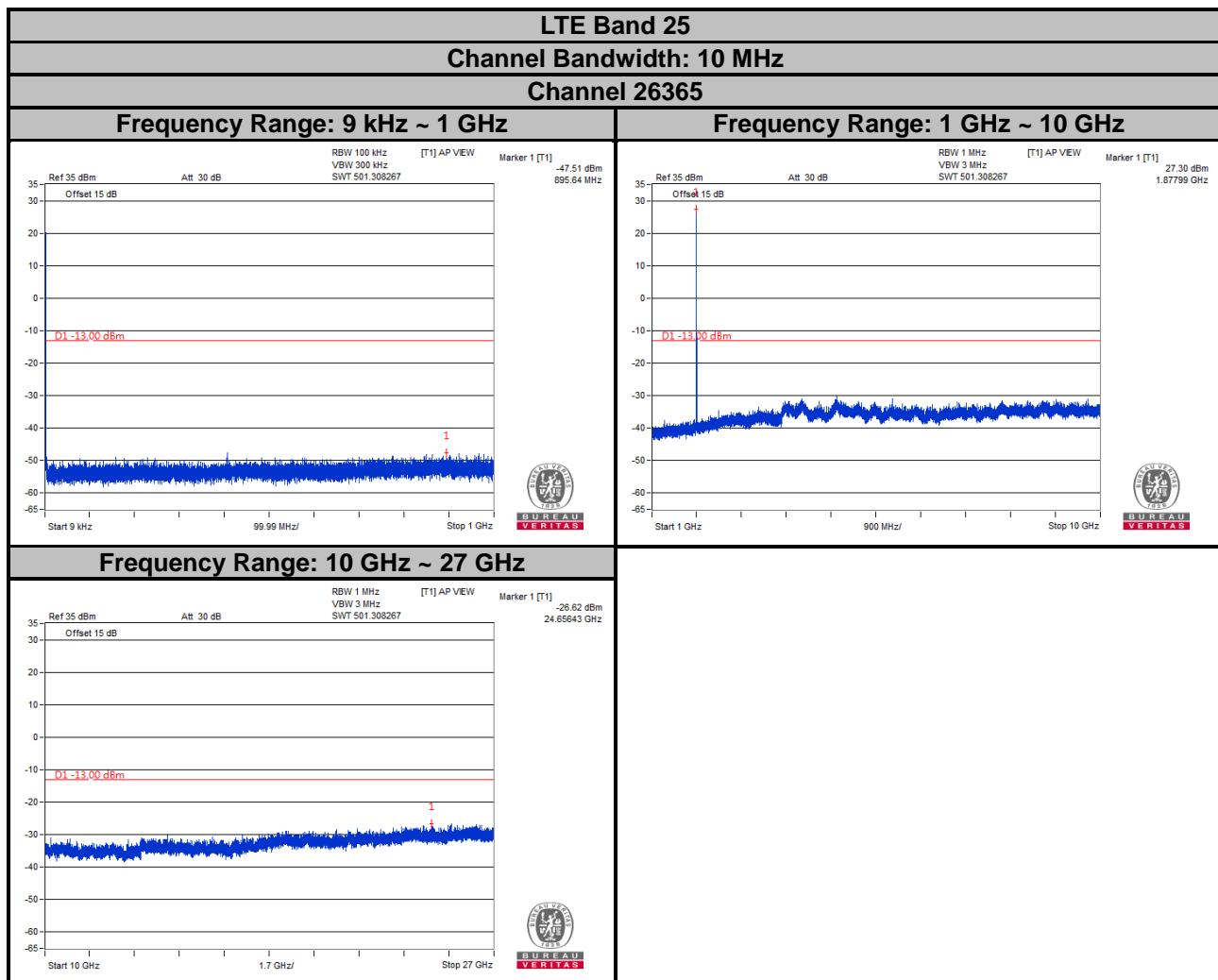
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



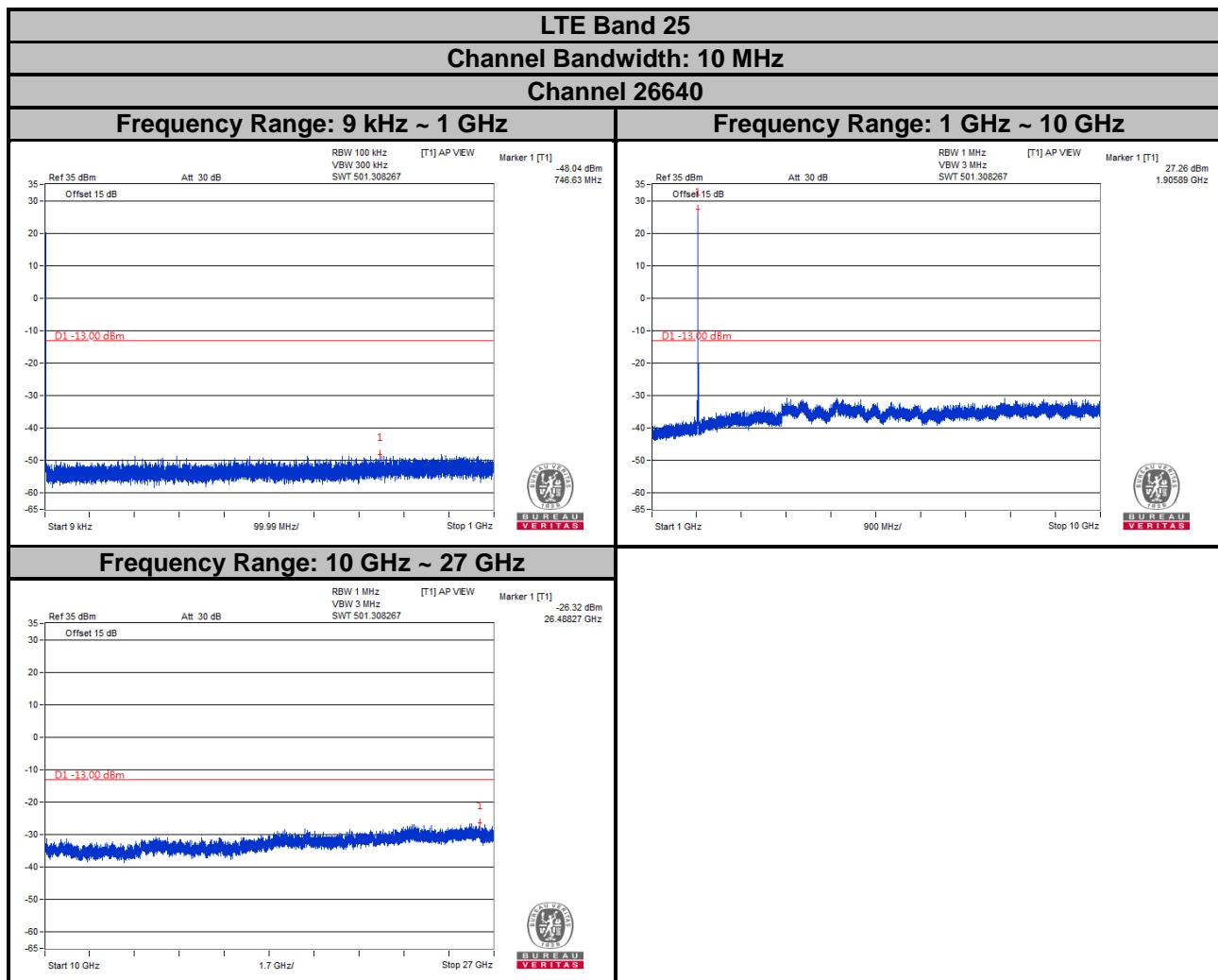
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



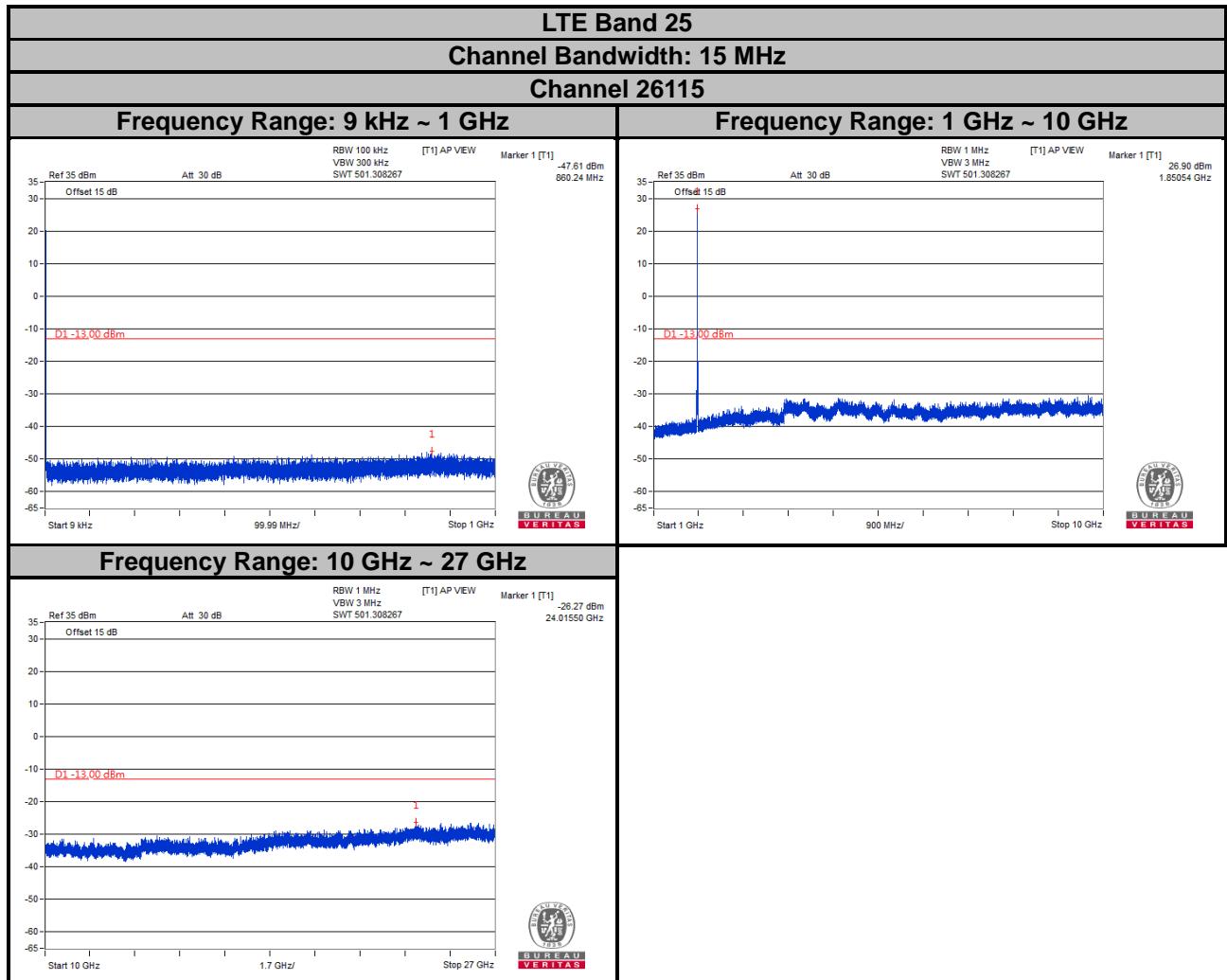
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



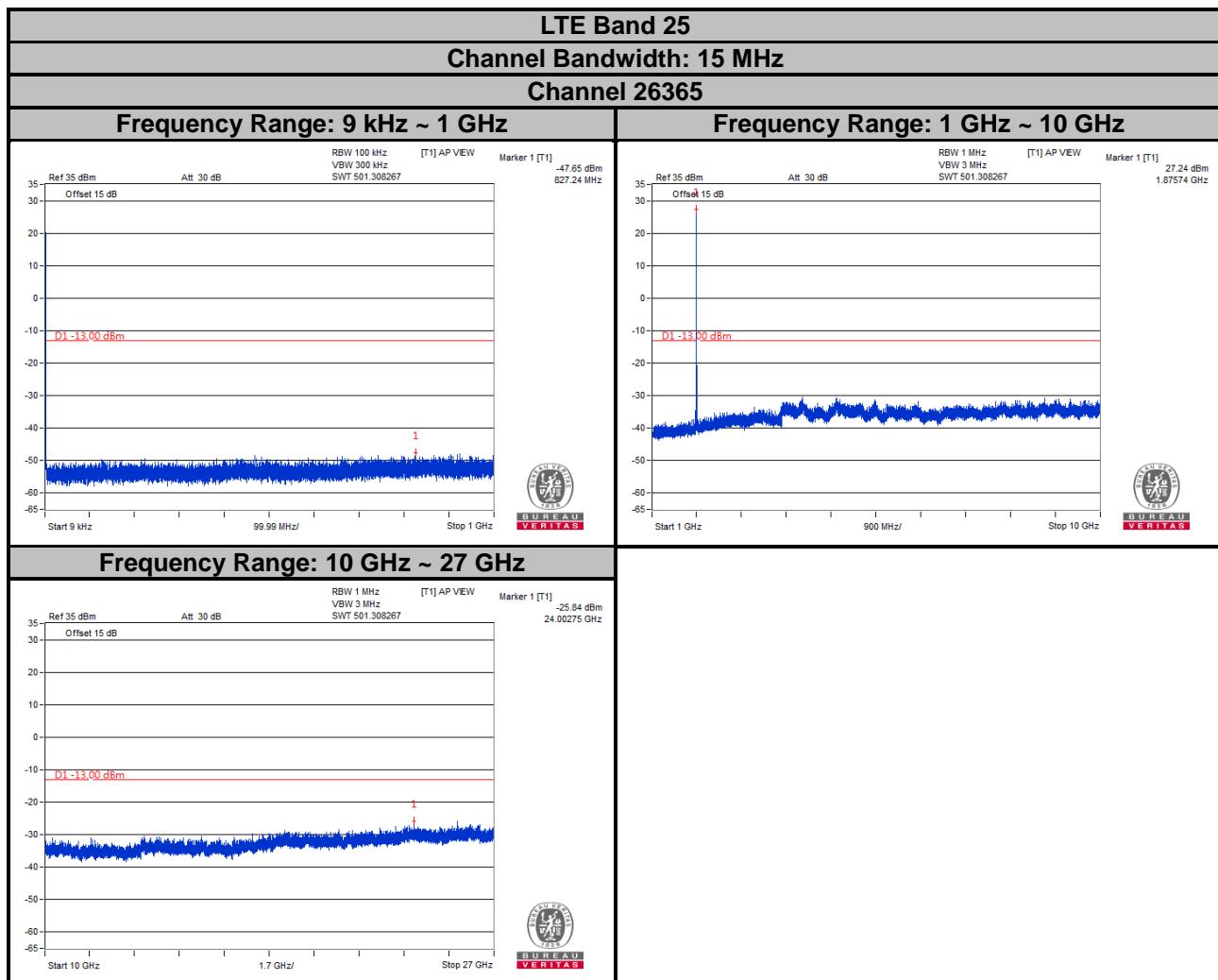
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



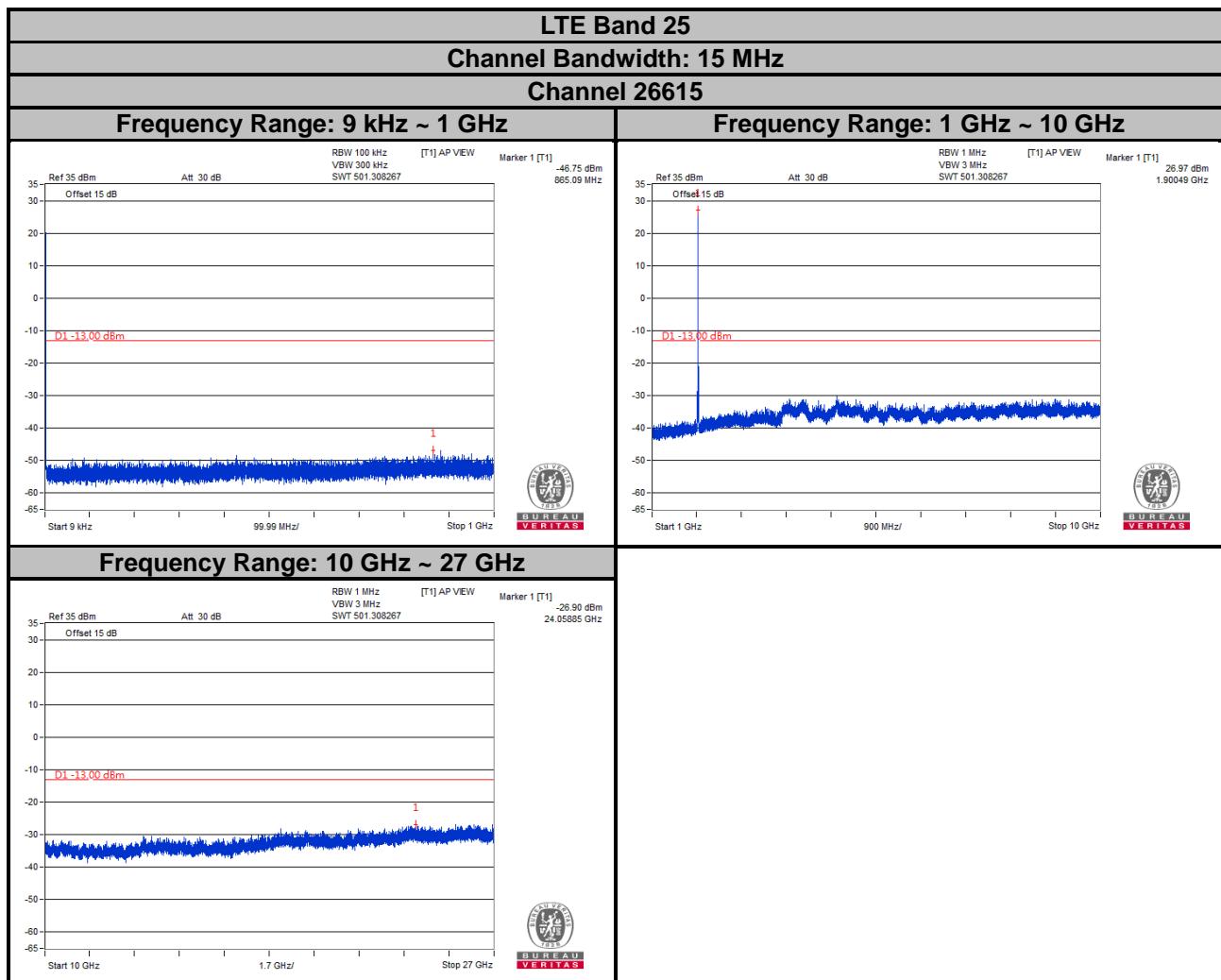
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



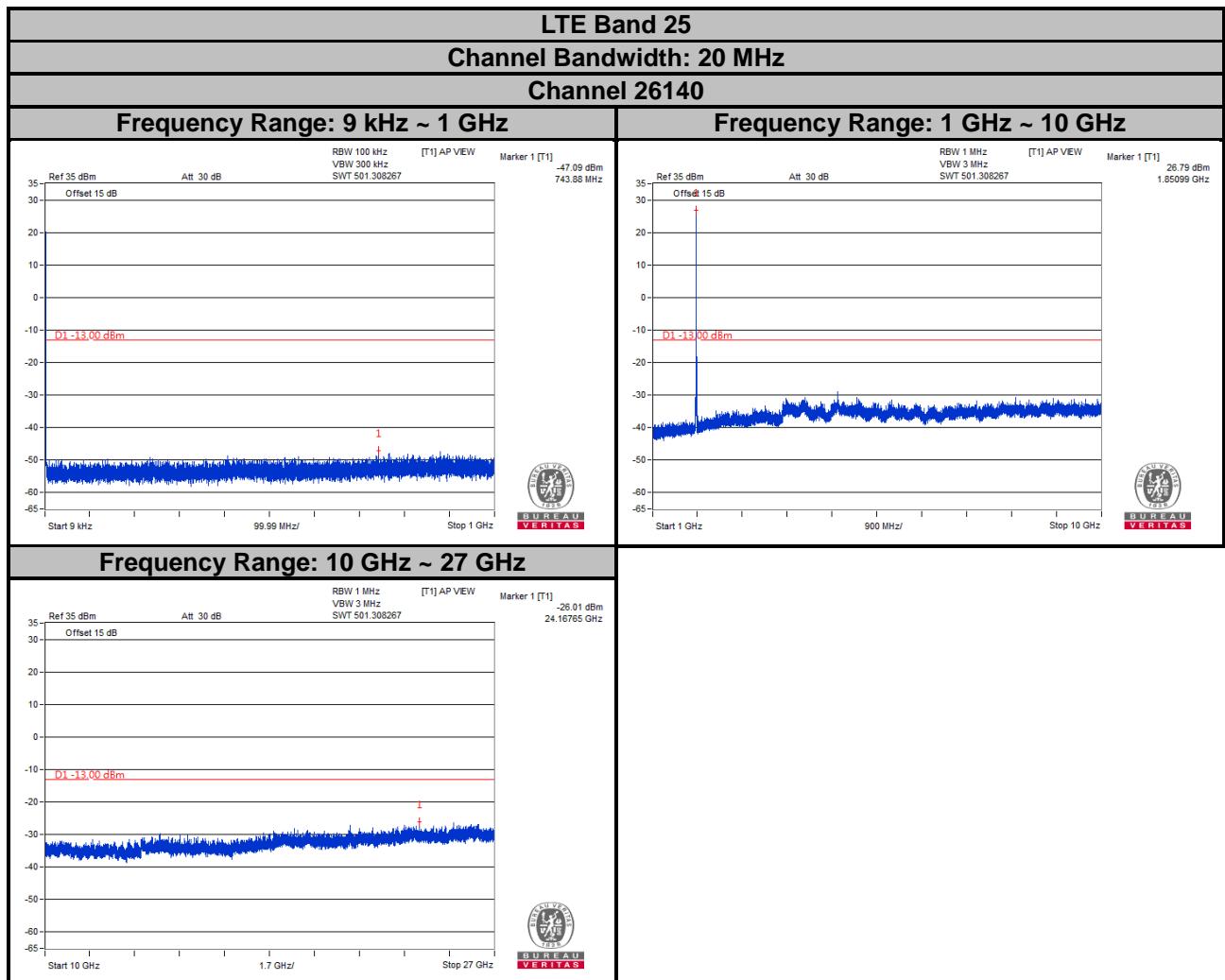
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



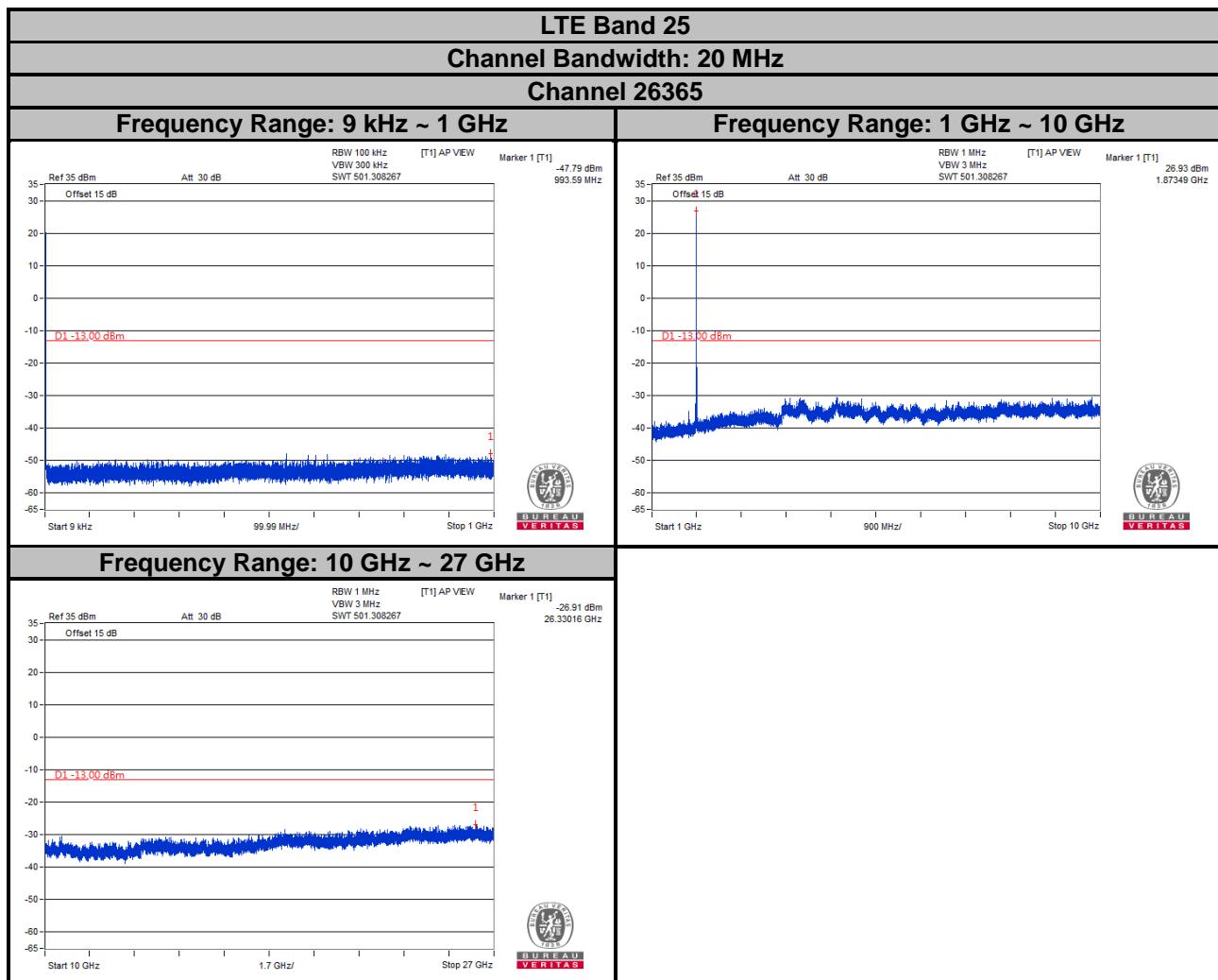
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



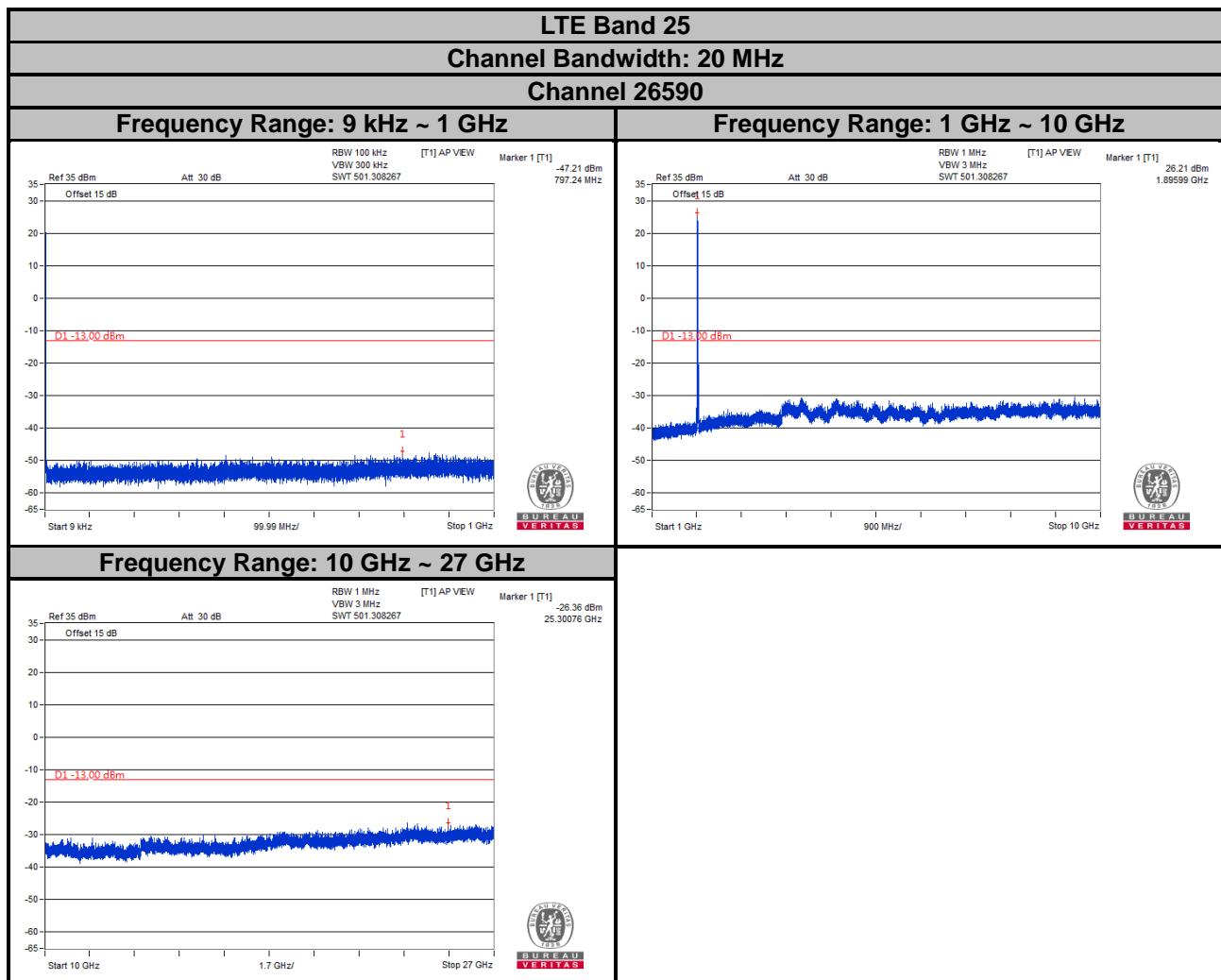
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



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.



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. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

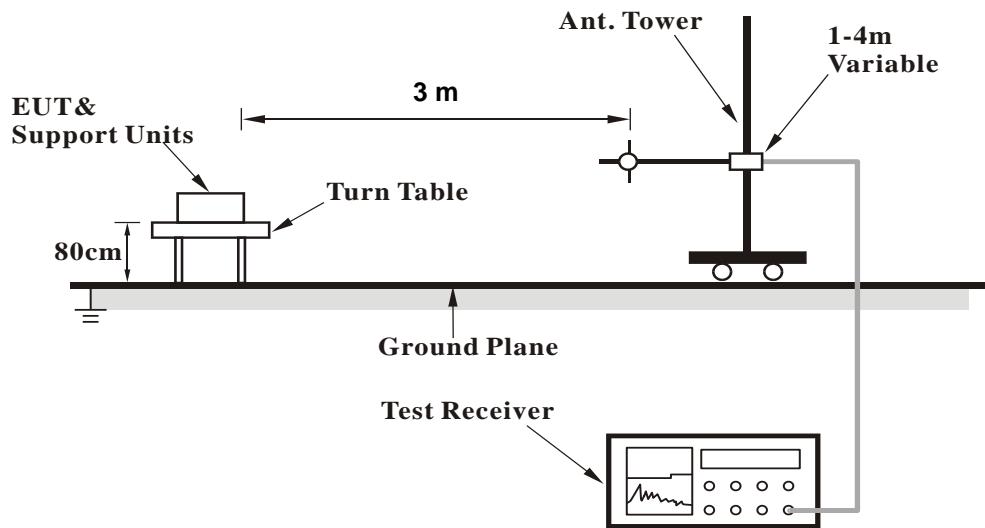
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.8.3 Deviation from Test Standard

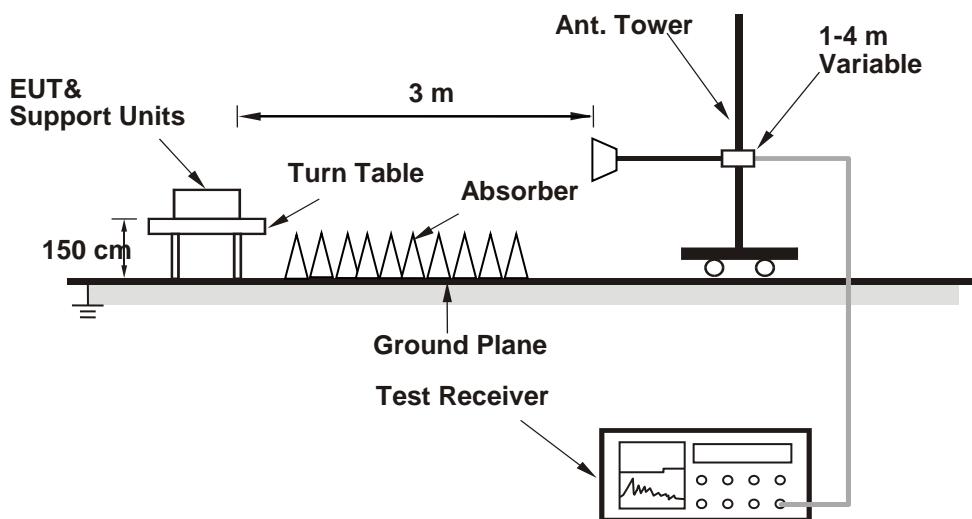
No deviation.

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:

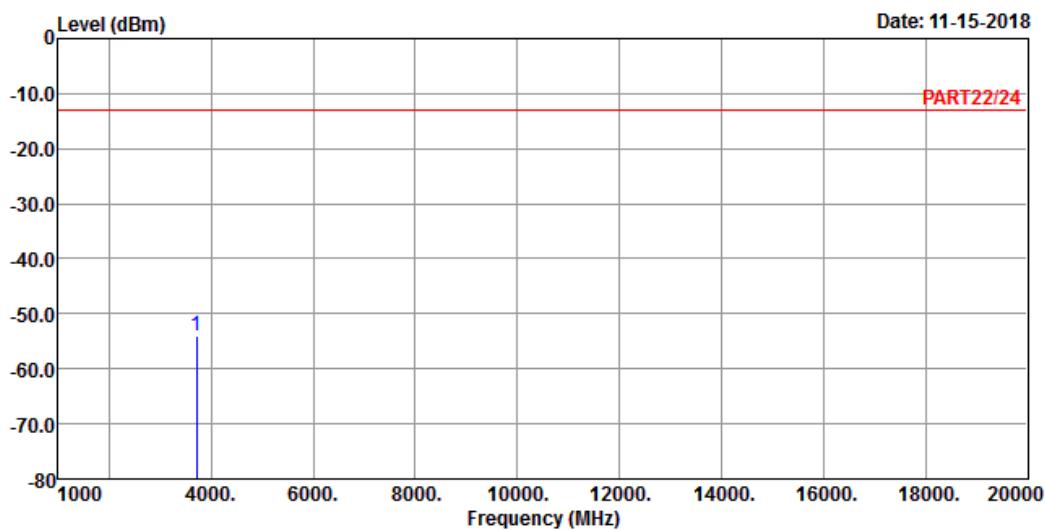
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remark : WCDMA Band 2 Link_L-CH

Tested by: Thomas Wei

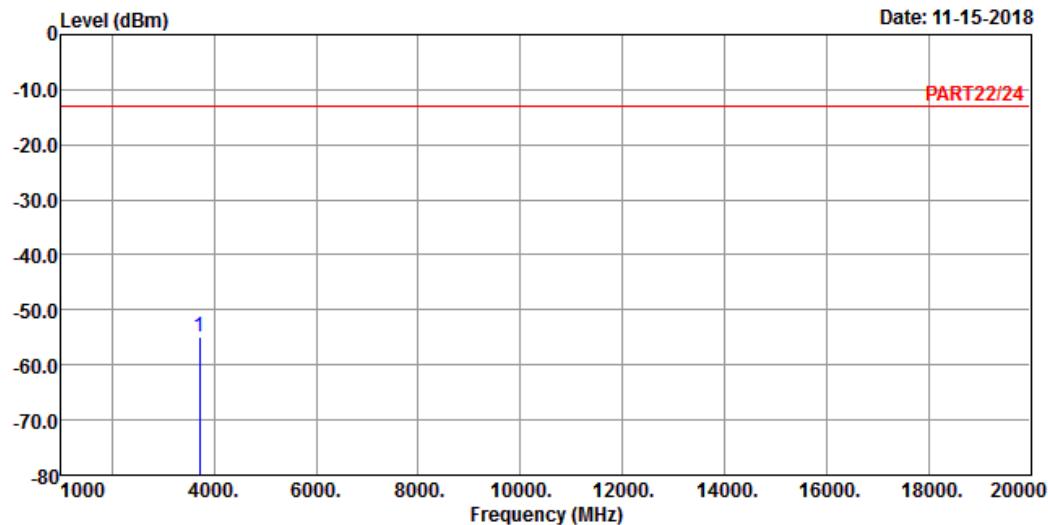
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm		
1 pp	3704.80	-53.90	-46.97	-13.00	-40.90	-6.93 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remark : WCDMA Band 2 Link_L-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3704.80	-55.01	-48.08	-13.00	-42.01	-6.93 Peak

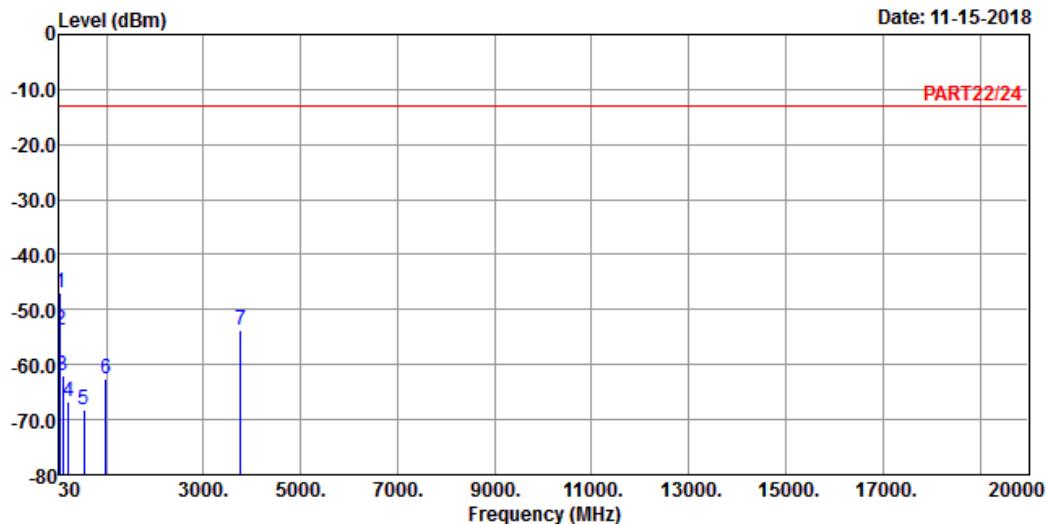
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remark : WCDMA Band 2 Link_M-CH

Tested by: Thomas Wei

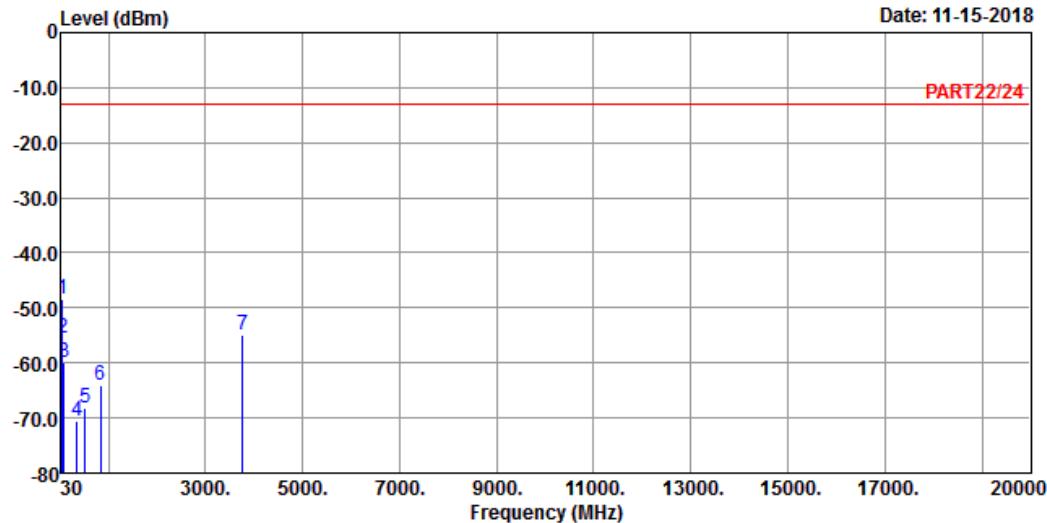
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
	MHz	dBm	dBm	dBm	dB	
1 pp	43.58	-46.92	-45.45	-13.00	-33.92	-1.47 Peak
2	51.34	-53.59	-48.31	-13.00	-40.59	-5.28 Peak
3	99.84	-61.91	-51.35	-13.00	-48.91	-10.56 Peak
4	216.24	-66.83	-59.47	-13.00	-53.83	-7.36 Peak
5	535.37	-68.09	-64.72	-13.00	-55.09	-3.37 Peak
6	988.36	-62.45	-65.62	-13.00	-49.45	3.17 Peak
7	3760.00	-53.60	-46.95	-13.00	-40.60	-6.65 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remark : WCDMA Band 2 Link_M-CH

Tested by: Thomas Wei

Freq	Read Level	Limit Level	Over			Remark
			Line	Limit	Factor	
MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.58	-48.46	-46.99	-13.00	-35.46	-1.47 Peak
2	51.34	-55.51	-50.23	-13.00	-42.51	-5.28 Peak
3	77.53	-60.04	-49.84	-13.00	-47.04	-10.20 Peak
4	352.04	-70.53	-64.30	-13.00	-57.53	-6.23 Peak
5	527.61	-68.28	-64.64	-13.00	-55.28	-3.64 Peak
6	838.01	-64.03	-64.43	-13.00	-51.03	0.40 Peak
7	3760.00	-54.95	-48.30	-13.00	-41.95	-6.65 Peak

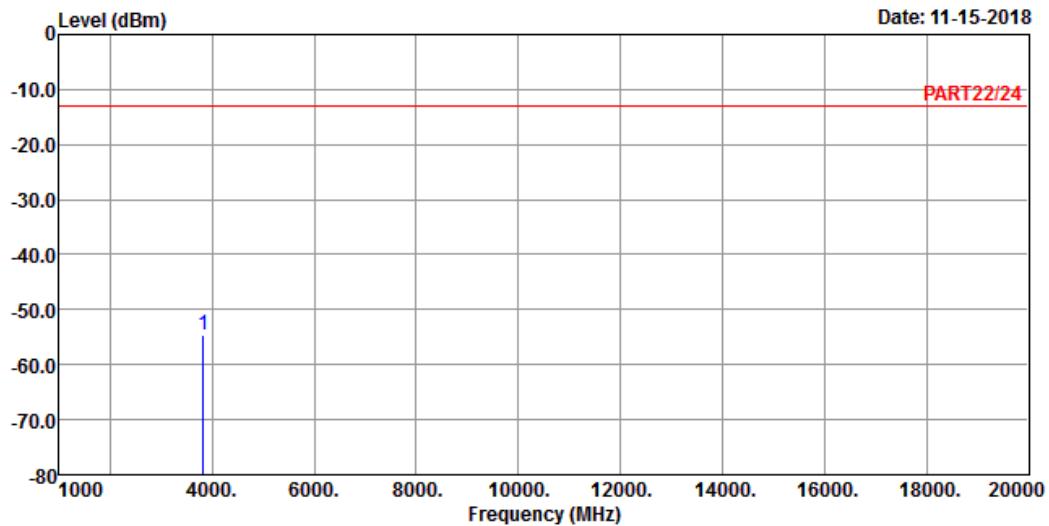
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remark : WCDMA Band 2 Link_H-CH

Tested by: Thomas Wei

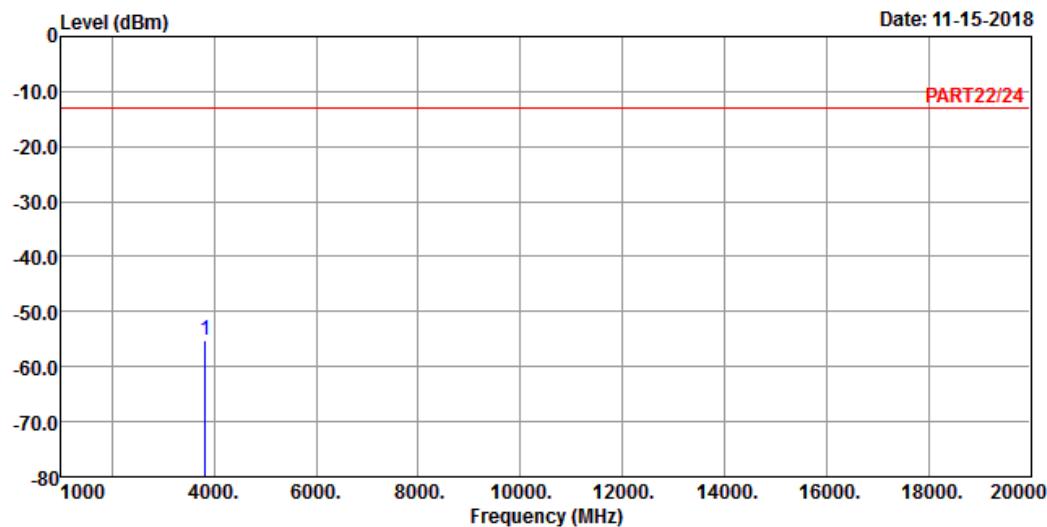
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
	MHz	dBm	dBm	dBm	dB	
1 pp	3815.20	-54.58	-48.18	-13.00	-41.58	-6.40 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remark : WCDMA Band 2 Link_H-CH

Tested by: Thomas Wei

Freq	Level	Read Level	Read	Limit	Over	Remark
			Line	dBm	dB	
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3815.20	-55.33	-48.93	-13.00	-42.33	-6.40 Peak

LTE Band 2

Channel Bandwidth: 1.4 MHz / QPSK

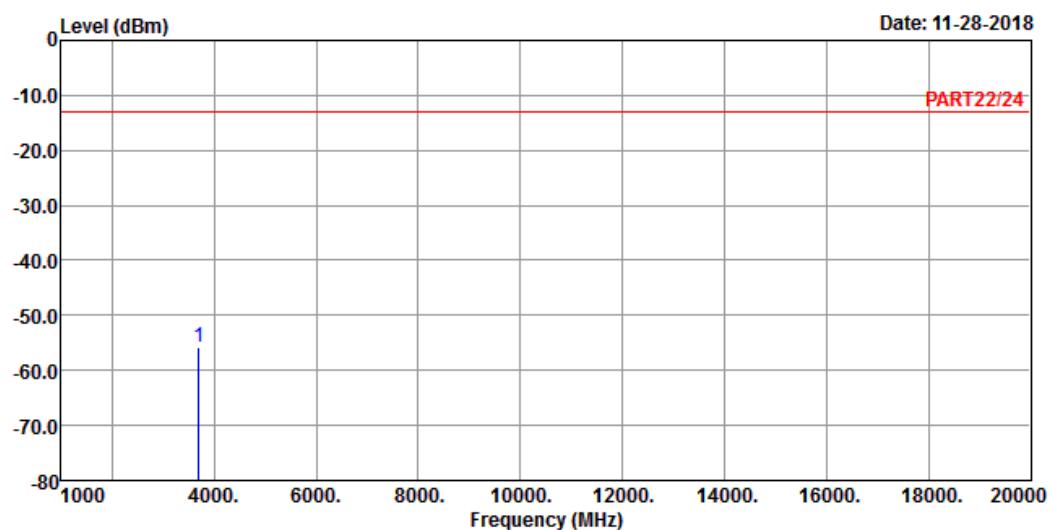
Low Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 2_QPSK_1.4M_L-CH

Tested by: Thomas Wei

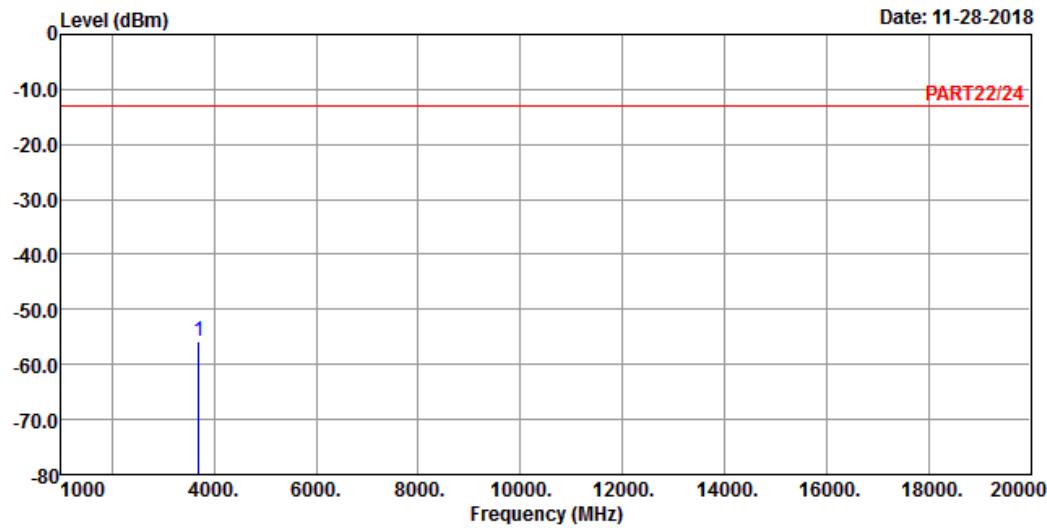
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm	dBm	dB
1 pp	3701.40	-55.85	-48.92	-13.00	-42.85	-6.93 Peak



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_1.4M_L-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp 3701.40	-55.69	-48.76	-13.00	-42.69	-6.93	Peak

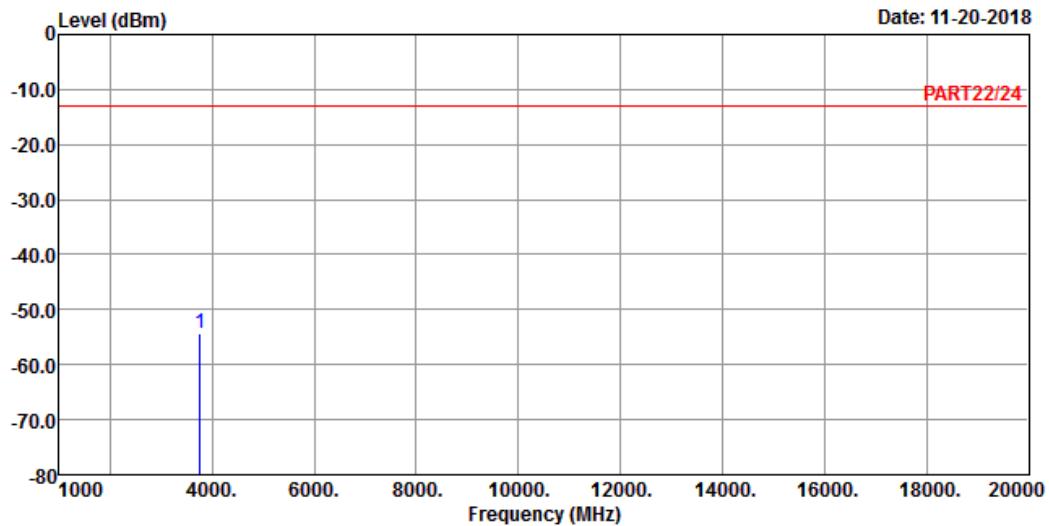
Middle Channel



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: Thomas Wei

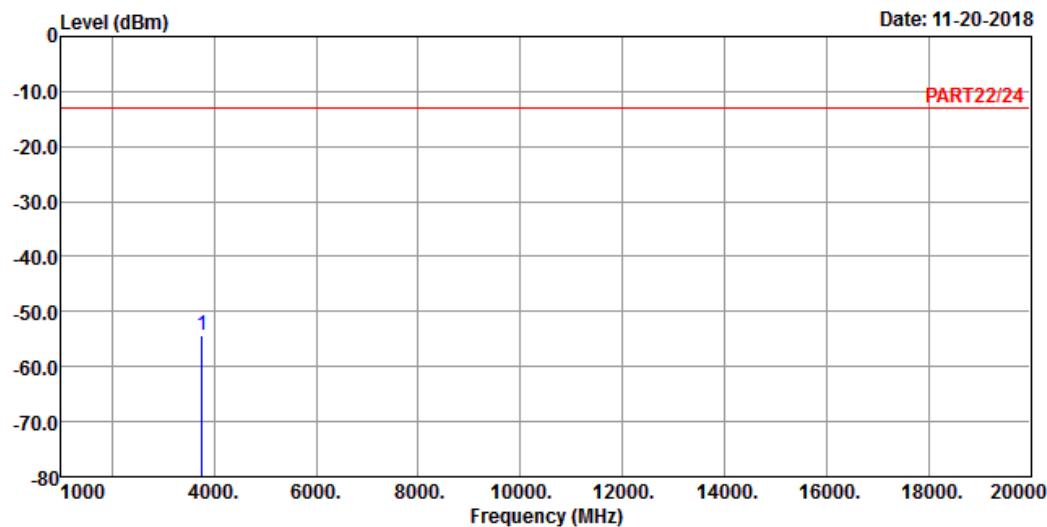
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm		
1 pp	3760.00	-54.29	-47.64	-13.00	-41.29	-6.65 Peak



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_1.4M Link_M-CH.

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp	3760.00	-54.43	-47.78	-13.00	-41.43	-6.65 Peak

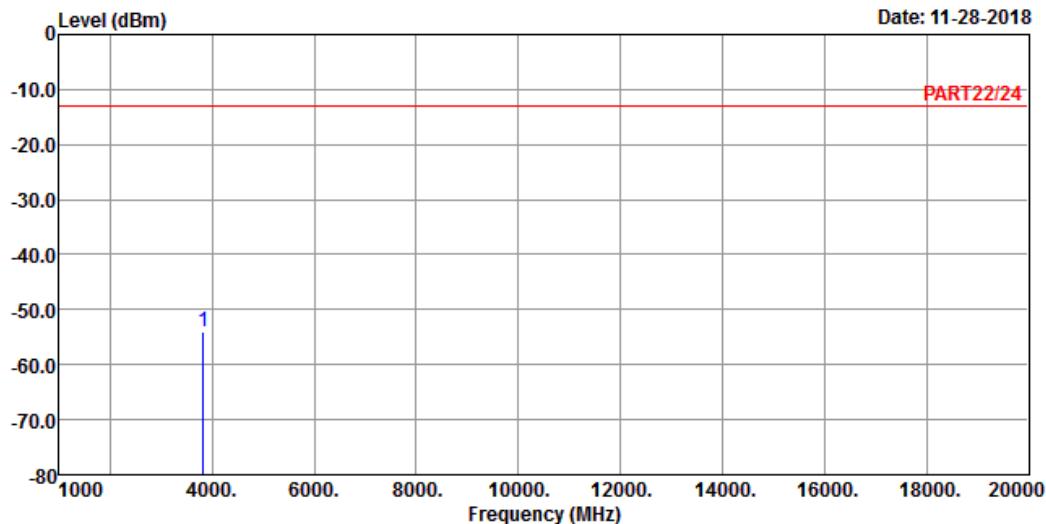
High Channel



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: Thomas Wei

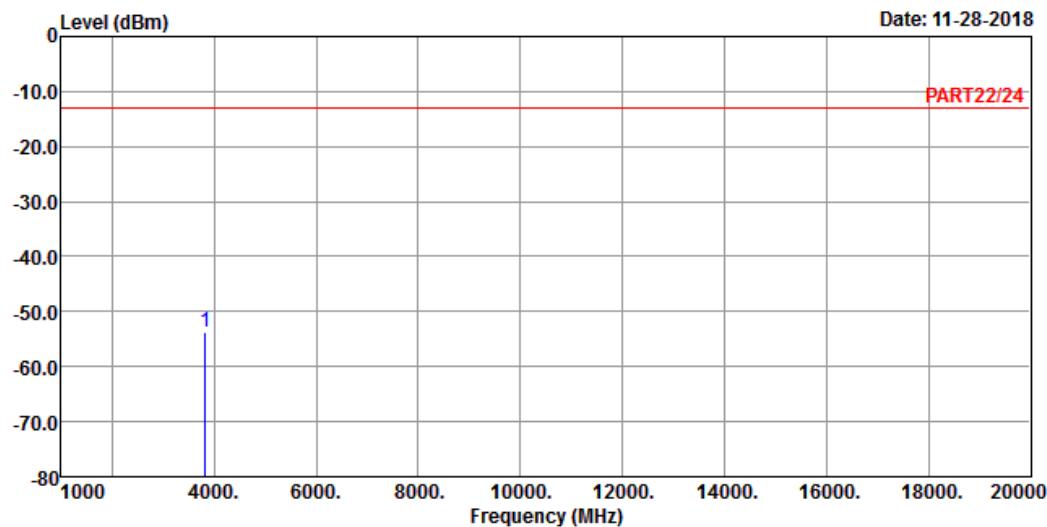
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
	MHz	dBm	dBm	dBm	dB	
1 pp	3818.60	-54.14	-47.74	-13.00	-41.14	-6.40 Peak



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_1.4M Link_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp	3818.60	-53.68	-47.28	-13.00	-40.68	-6.40 Peak

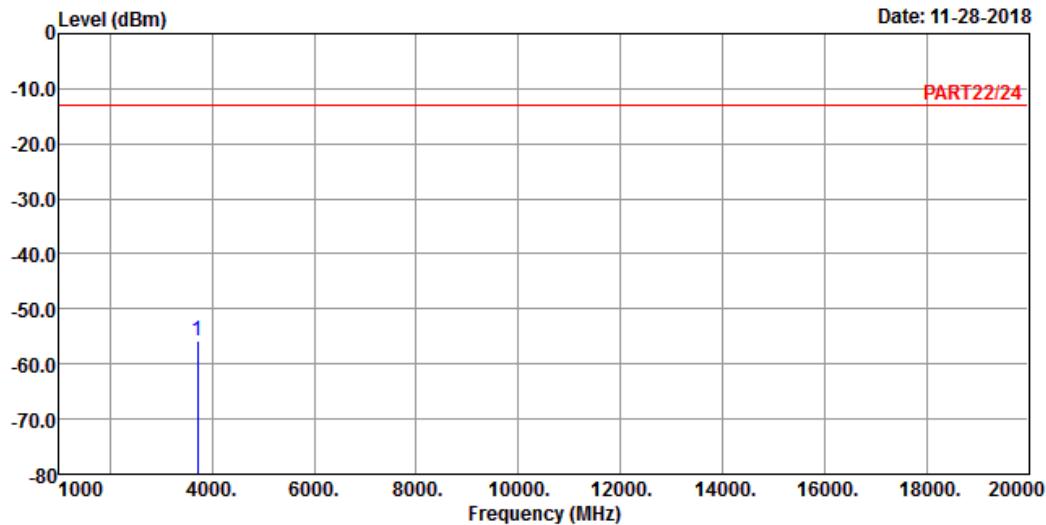
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 2 QPSK_5M Link_L-CH

Tested by: Thomas Wei

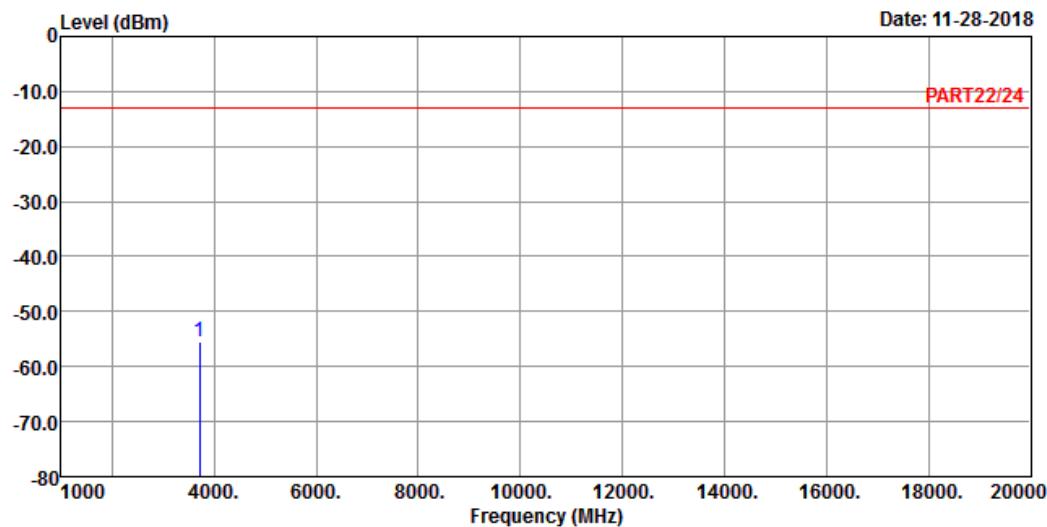
Freq	Read Level	Limit Level	Over Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3705.00	-55.85	-48.92	-13.00	-42.85	-6.93 Peak



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_5M Link_L-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Remark
		Line	dBm	dB	
MHz	dBm	dBm	dB	dB	
1 pp	3705.00	-55.63	-48.70	-13.00	-42.63 -6.93 Peak

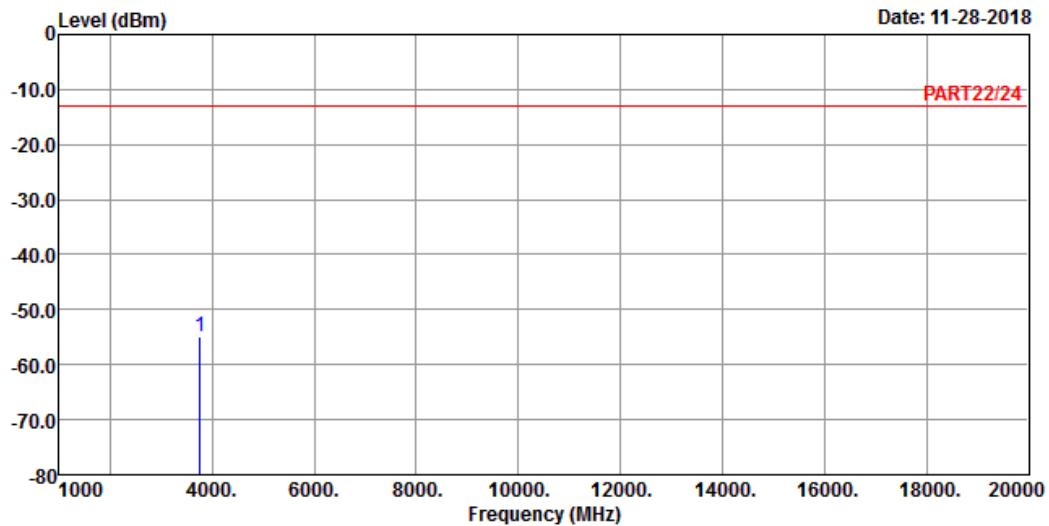
Middle Channel



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: Thomas Wei

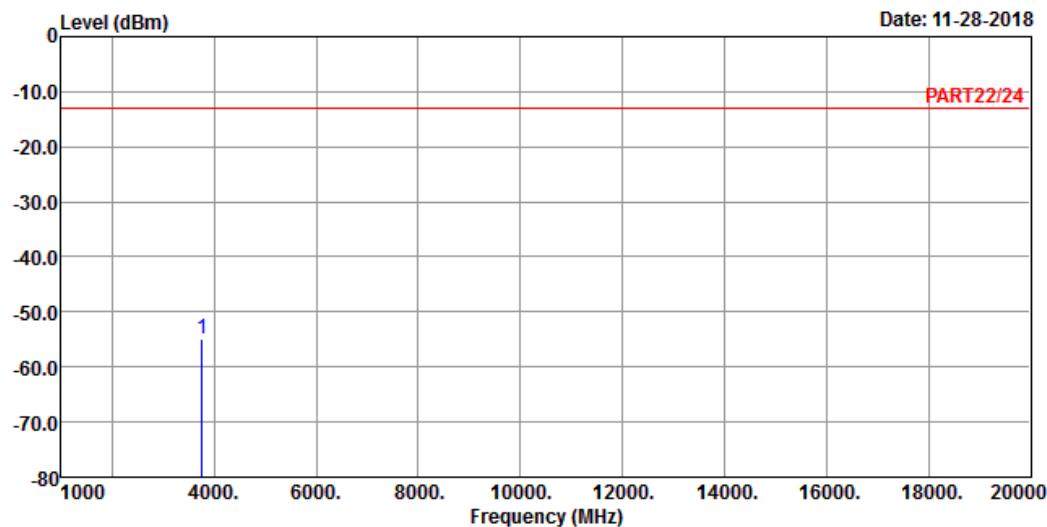
Freq	Level	Read	Limit	Over	Factor	Remark
		Line	Limit	Factor		
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3760.00	-54.98	-48.33	-13.00	-41.98	-6.65 Peak



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_5M Link_M-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3760.00	-55.01	-48.36	-13.00	-42.01	-6.65 Peak

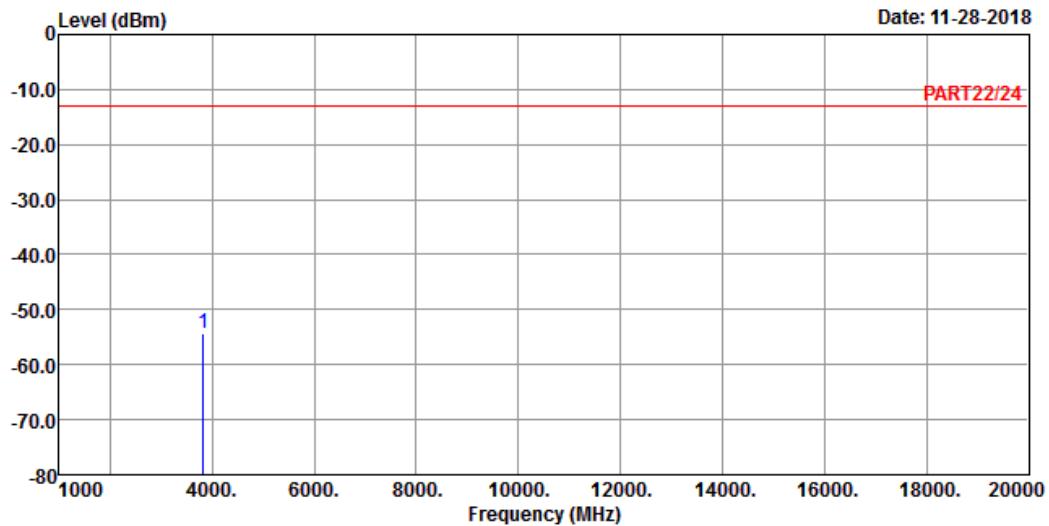
High Channel



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: Thomas Wei

	Read	Limit	Over
Freq	Level	Level	Line

Freq	Level	Level	Line	Limit	Factor	Remark
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MHz	dBm	dBm	dBm	dB	dB	
-----	-----	-----	-----	----	----	--

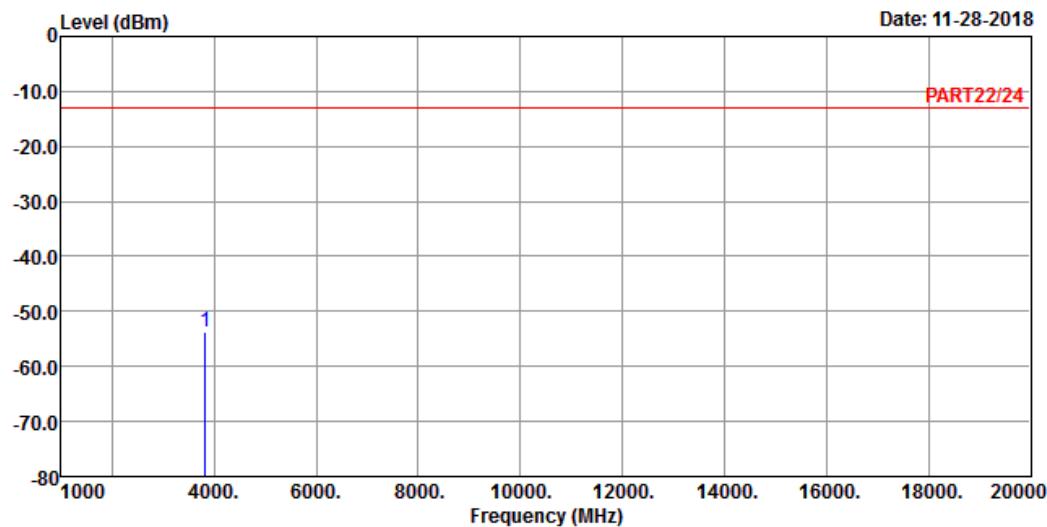
1 pp	3815.00	-54.25	-47.85	-13.00	-41.25	-6.40 Peak
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 2 QPSK_5M Link_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp	3815.00	-53.75	-47.35	-13.00	-40.75	-6.40 Peak



Channel Bandwidth: 20 MHz / QPSK

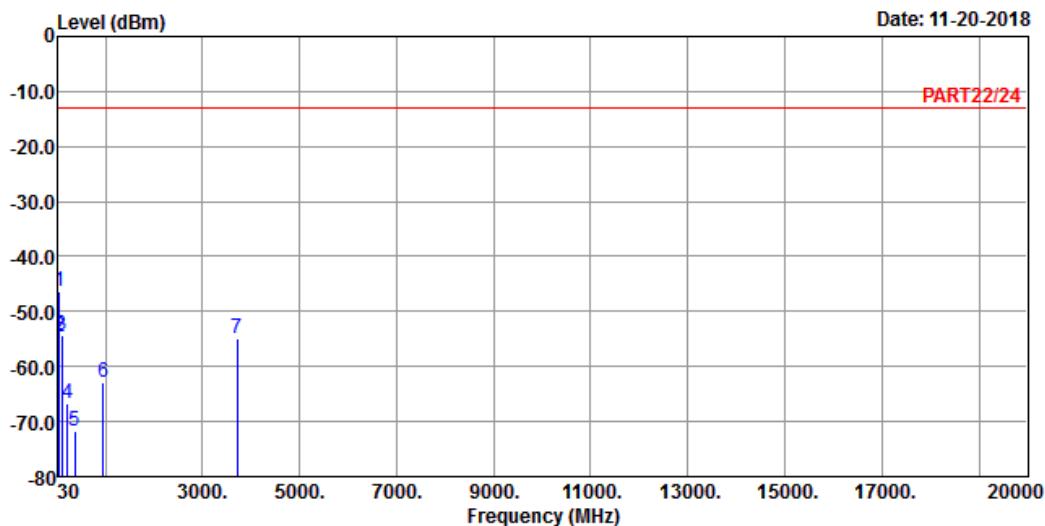
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 2 QPSK 20M Link L-CH

Tested by: Thomas Wei

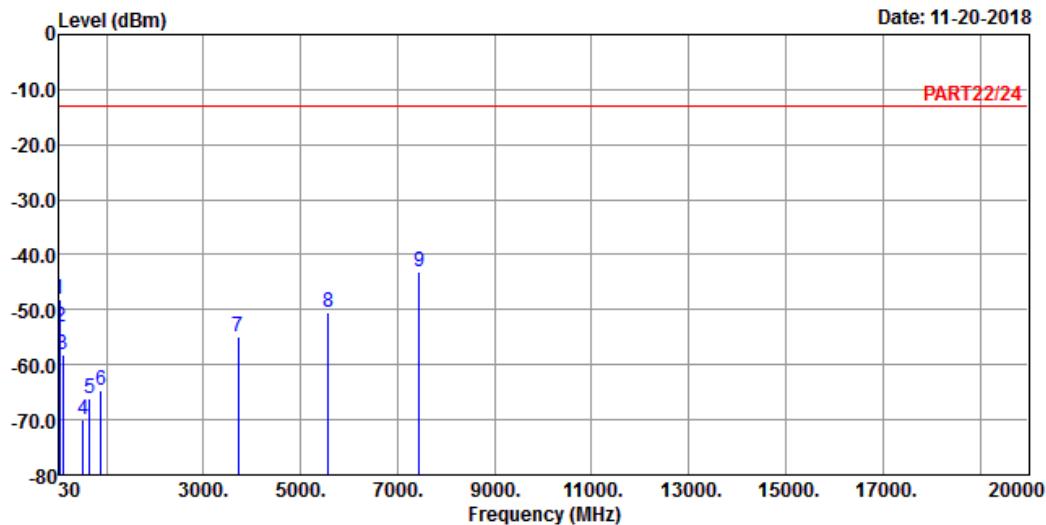
	Freq	Level	Read Level	Limit Line	Over Limit	Over Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
p	44.55	-46.42	-44.43	-13.00	-33.42	-1.99	Peak
	51.34	-54.64	-49.36	-13.00	-41.64	-5.28	Peak
	99.84	-54.41	-43.85	-13.00	-41.41	-10.56	Peak
	217.21	-66.62	-59.30	-13.00	-53.62	-7.32	Peak
	361.74	-71.86	-65.69	-13.00	-58.86	-6.17	Peak
	959.26	-62.89	-65.03	-13.00	-49.89	2.14	Peak
	3720.00	-55.03	-48.21	-13.00	-42.03	-6.82	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 2 QPSK_20M Link_L-CH

Tested by: Thomas Wei

Freq	Read	Limit	Over	Factor	Remark
	Level	Level	Line		
	MHz	dBm	dBm	dB	dB
1	40.67	-48.12	-48.24	-13.00	-35.12 0.12 Peak
2	52.31	-53.15	-47.61	-13.00	-40.15 -5.54 Peak
3	96.93	-58.02	-47.29	-13.00	-45.02 -10.73 Peak
4	512.09	-69.85	-65.65	-13.00	-56.85 -4.20 Peak
5	647.89	-66.16	-65.28	-13.00	-53.16 -0.88 Peak
6	886.51	-64.73	-65.23	-13.00	-51.73 0.50 Peak
7	3720.00	-55.03	-48.21	-13.00	-42.03 -6.82 Peak
8	5580.00	-50.38	-48.46	-13.00	-37.38 -1.92 Peak
9 pp	7440.00	-43.00	-47.15	-13.00	-30.00 4.15 Peak

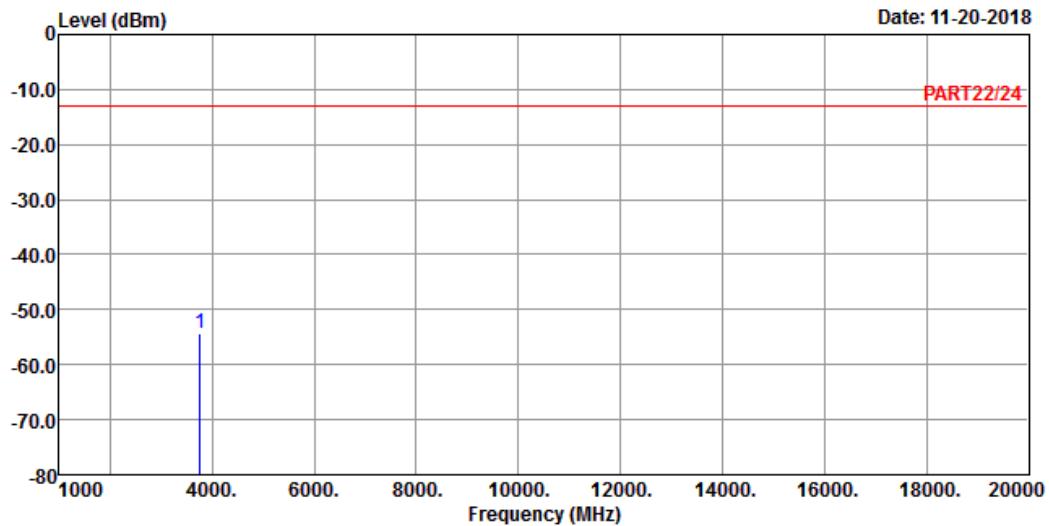
Middle Channel



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: Thomas Wei

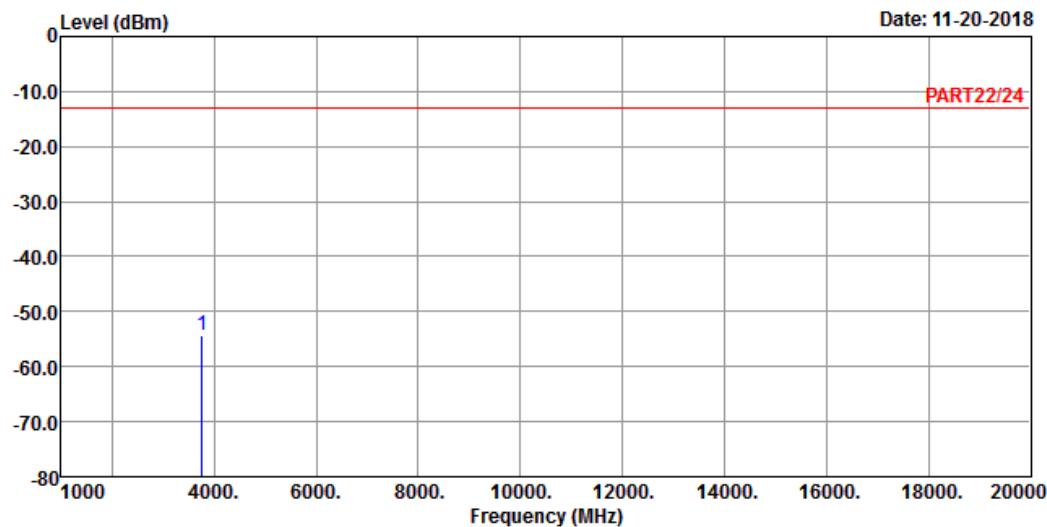
Freq	Read	Limit	Over		
	Level	Line	Limit Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB
1 pp	3760.00	-54.29	-47.64	-13.00	-41.29
				-6.65	Peak



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_M-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB	Peak	
1 pp	3760.00	-54.43	-47.78	-13.00	-41.43	-6.65 Peak

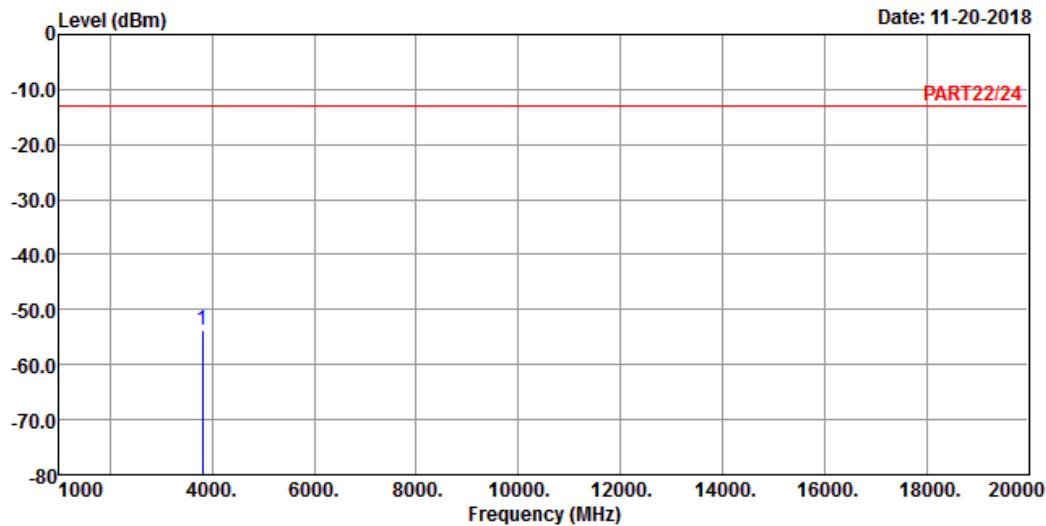
High Channel



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: Thomas Wei

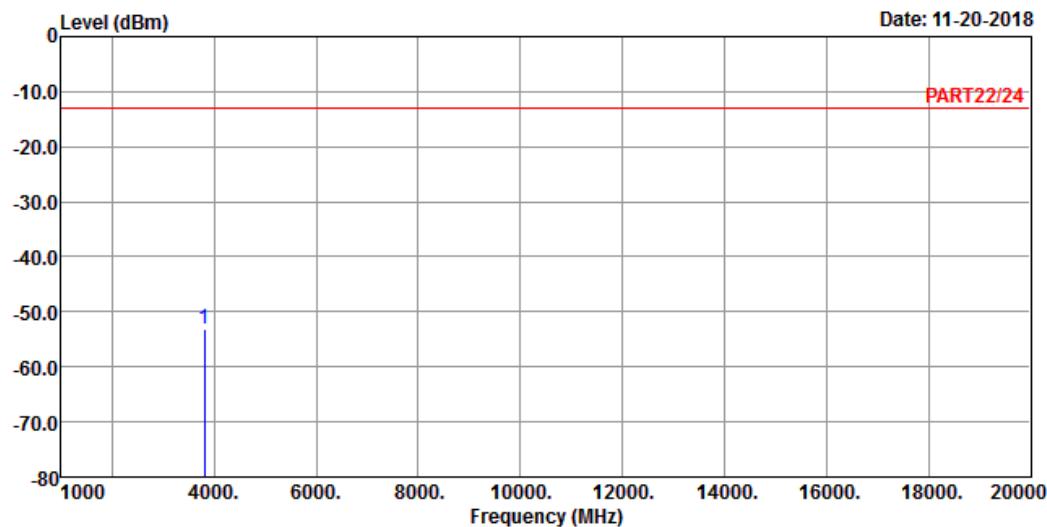
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
	MHz	dBm	dBm	dBm	dB	
1 pp	3800.00	-53.70	-47.27	-13.00	-40.70	-6.43 Peak



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: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
1 pp	3800.00	-53.13	-46.70	-13.00	-40.13	-6.43 Peak

LTE Band 25

Channel Bandwidth: 1.4 MHz / QPSK

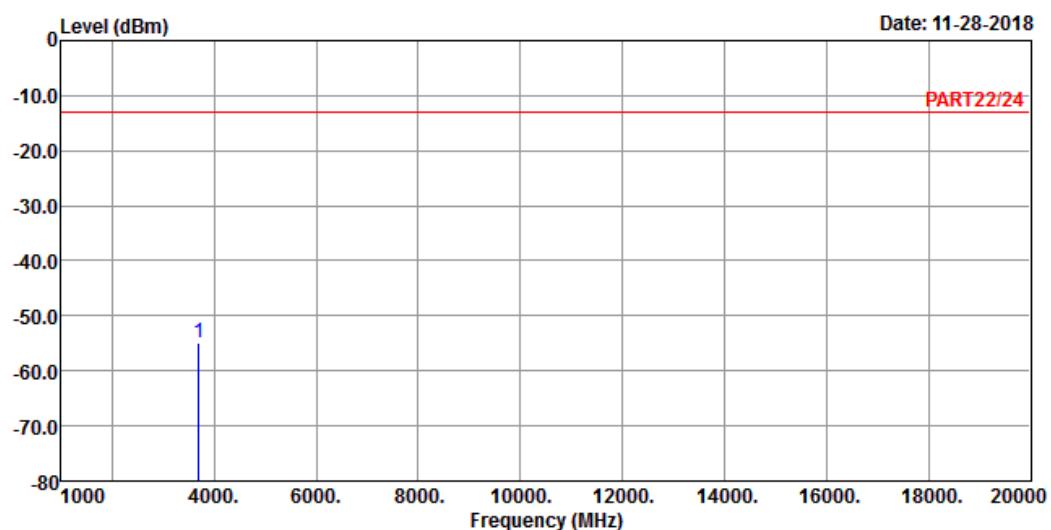
Low Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 25 QPSK_1.4M Link_L-CH

Tested by: Thomas Wei

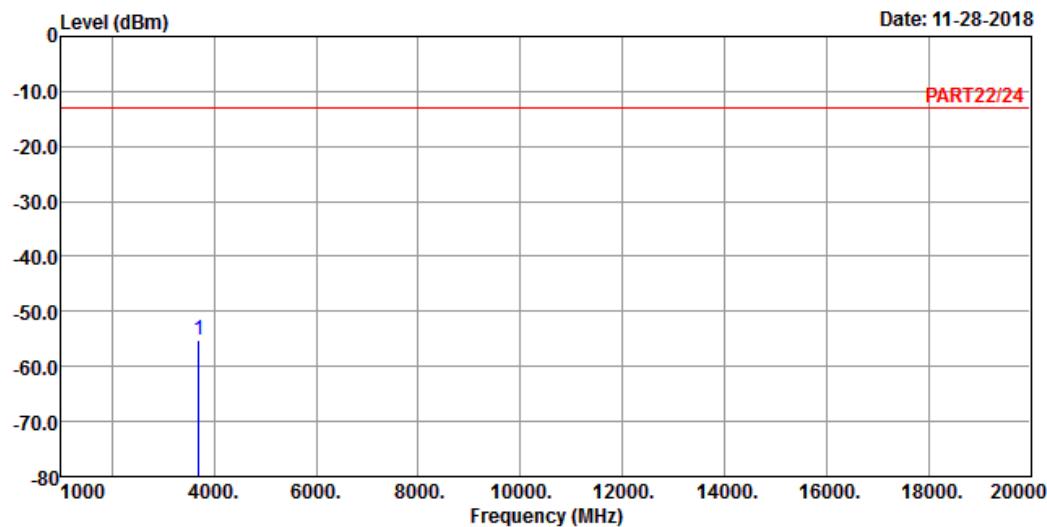
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB
1 pp	3701.40	-54.89	-47.96	-13.00	-41.89	-6.93 Peak



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_1.4M Link_L-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Remark
		Line	dBm	dB	
MHz	dBm	dBm	dB	dB	
1 pp 3701.40	-55.25	-48.32	-13.00	-42.25	-6.93 Peak

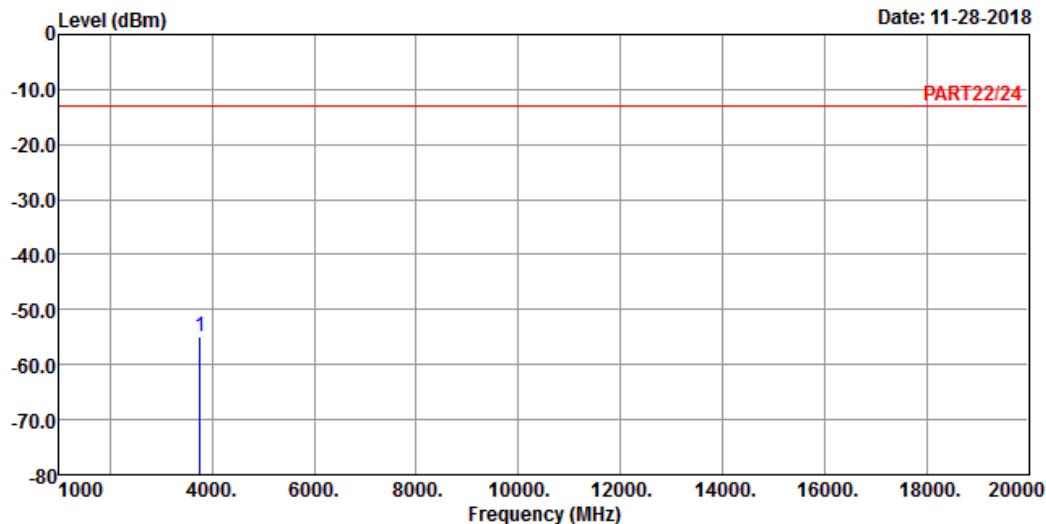
Middle Channel



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: Thomas Wei

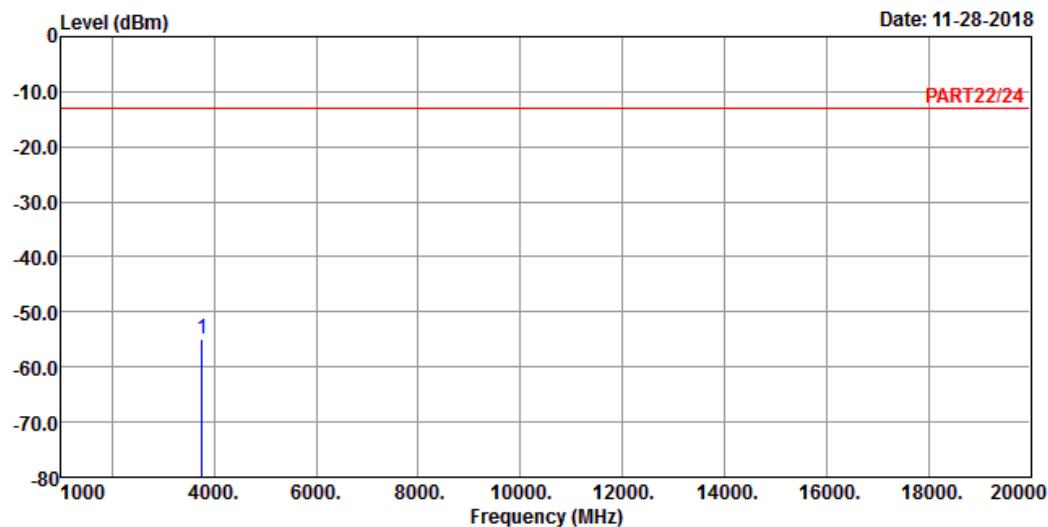
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm	dBm	dB
1 pp	3765.00	-54.99	-48.39	-13.00	-41.99	-6.60 Peak



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_1.4M Link_M-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3765.00	-54.89	-48.29	-13.00	-41.89	-6.60 Peak

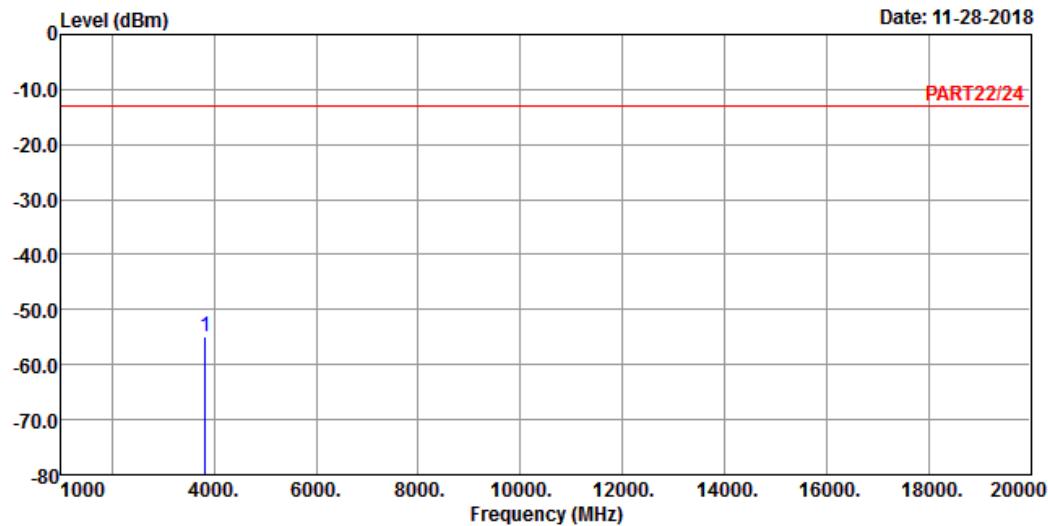
High Channel



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: Thomas Wei

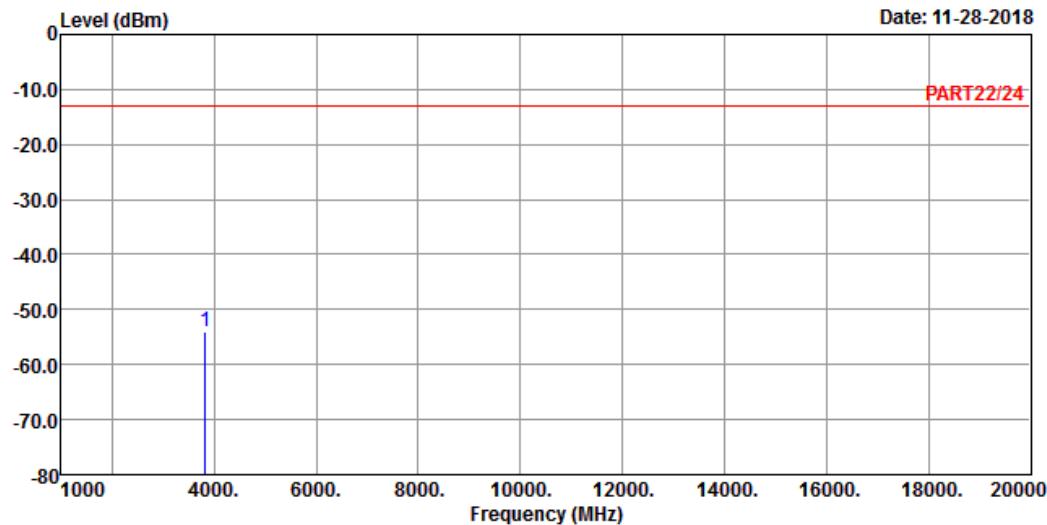
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm		
1 pp	3828.60	-54.85	-48.48	-13.00	-41.85	-6.37 Peak



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_1.4M Link_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp	3828.60	-53.96	-47.59	-13.00	-40.96	-6.37 Peak

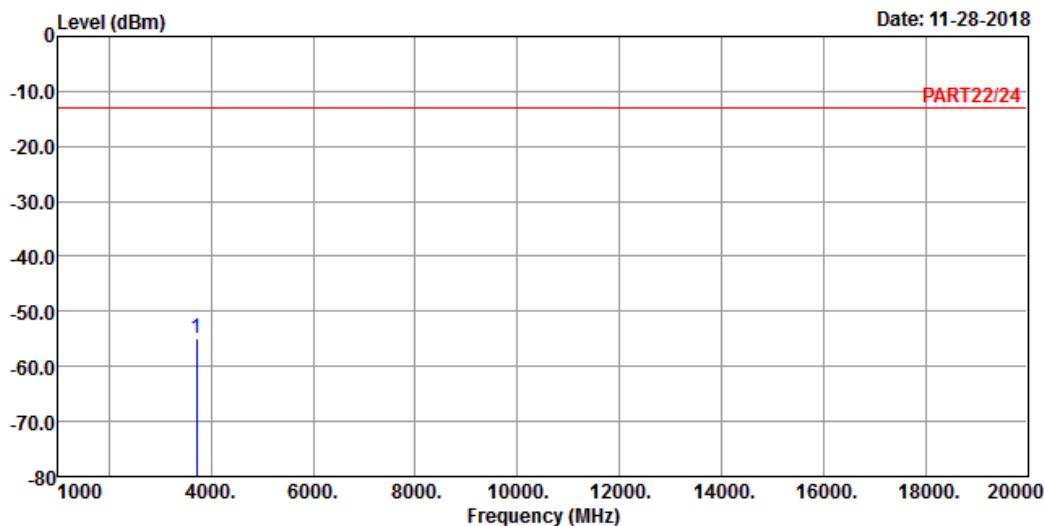
Channel Bandwidth: 5 MHz / QPSK
Low Channel



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: Thomas Wei

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

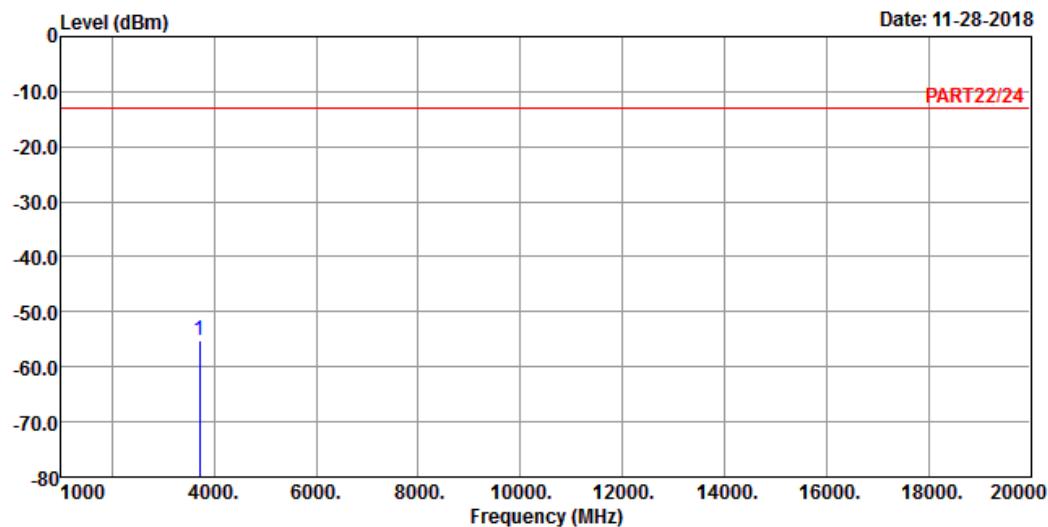
1 pp 3705.00 -54.78 -47.85 -13.00 -41.78 -6.93 Peak



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: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm	Line	Limit
1 pp	3705.00	-55.23	-48.30	-13.00	-42.23	-6.93 Peak

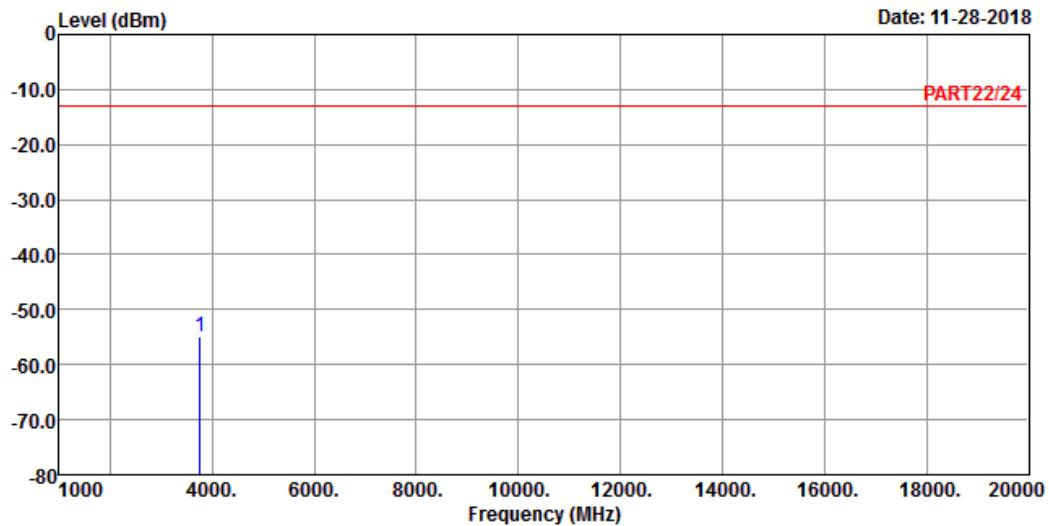
Middle Channel



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: Thomas Wei

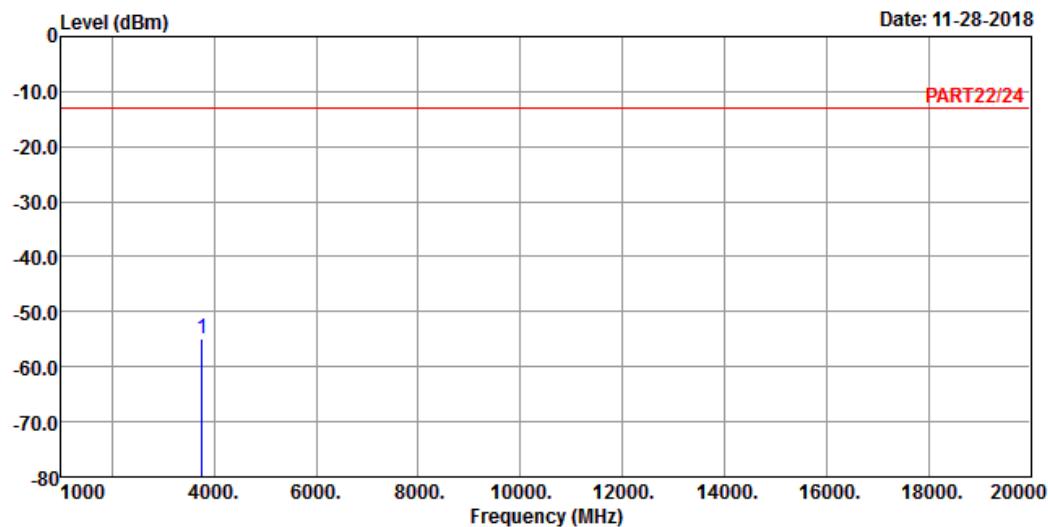
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm		
1 pp	3765.00	-54.99	-48.39	-13.00	-41.99	-6.60 Peak



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: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
1 pp	3765.00	-54.87	-48.27	-13.00	-41.87	-6.60 Peak

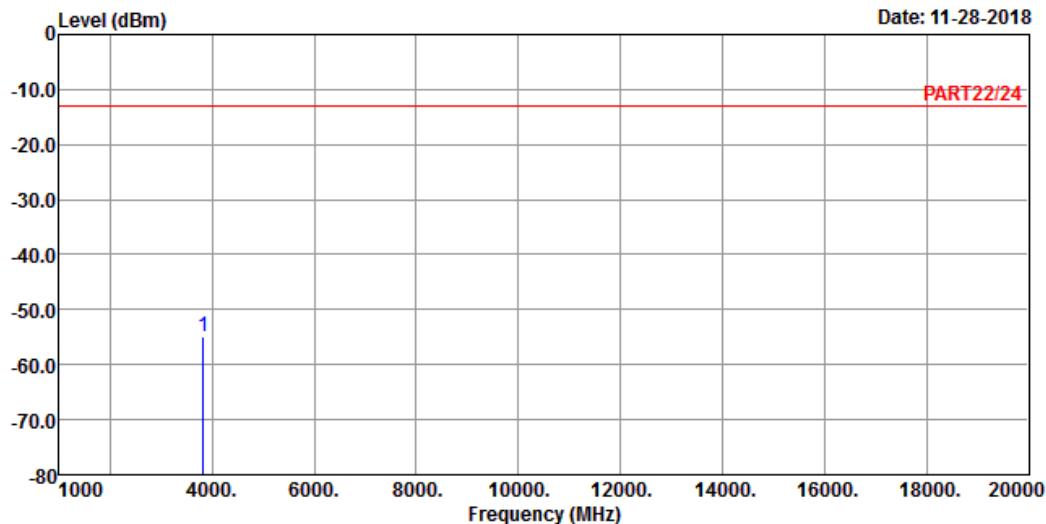
High Channel



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: Thomas Wei

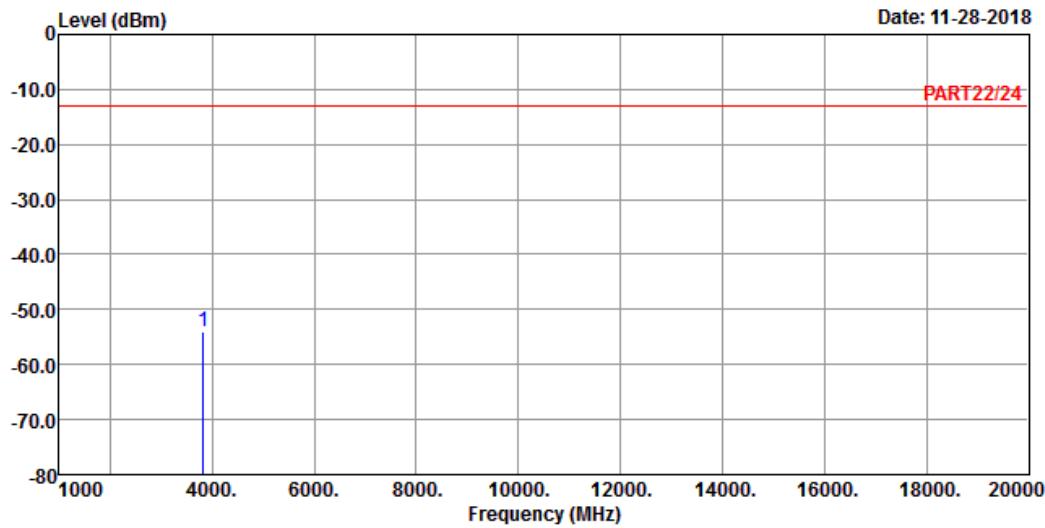
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3825.00	-54.99	-48.62	-13.00	-41.99	-6.37 Peak



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_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp	3825.00	-53.89	-47.52	-13.00	-40.89	-6.37 Peak

Channel Bandwidth: 20 MHz / QPSK

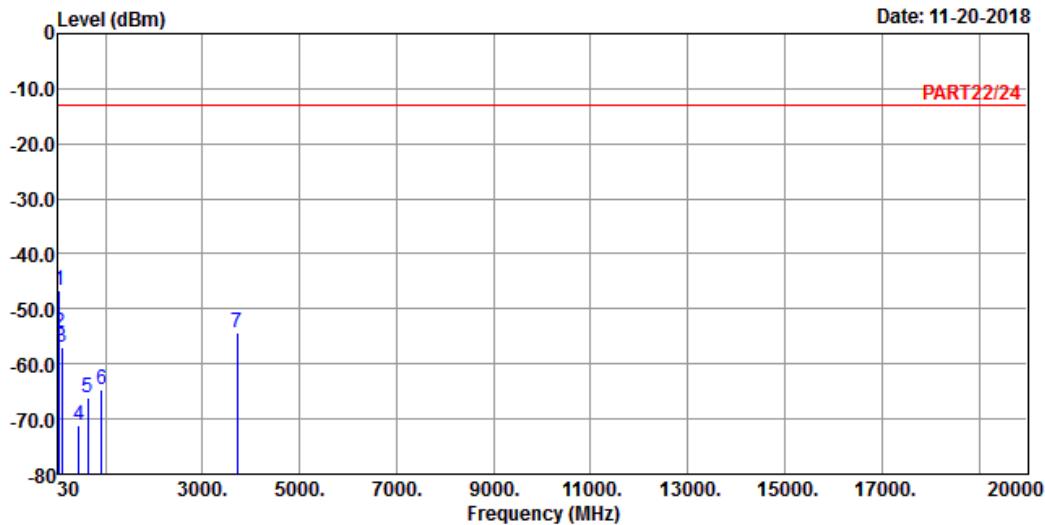
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 25 QPSK_20M Link_L-CH

Tested by: Thomas Wei

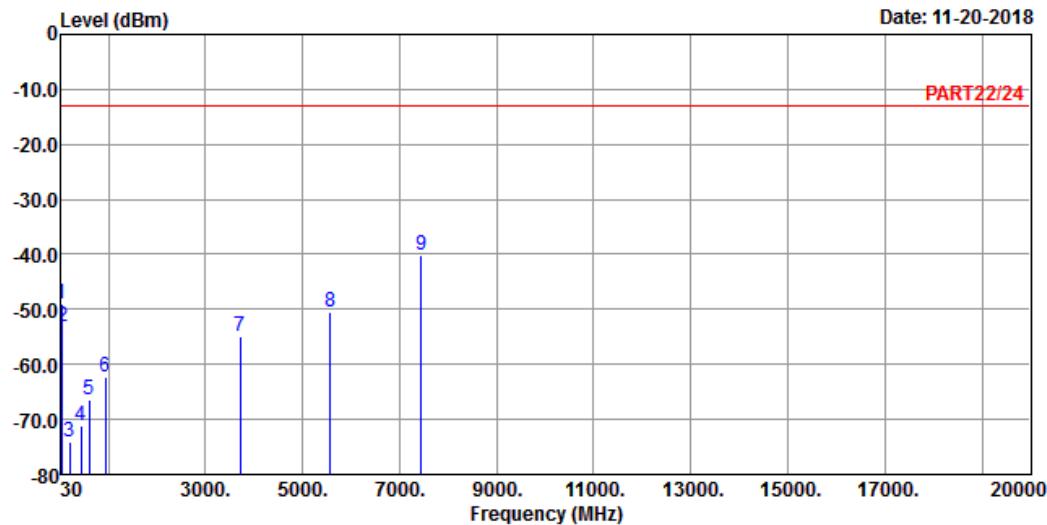
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark
	MHz	dBm	dBm	dBm	dB	
1 pp	43.58	-46.62	-45.15	-13.00	-33.62	-1.47 Peak
2	53.28	-54.20	-48.39	-13.00	-41.20	-5.81 Peak
3	102.75	-57.00	-46.51	-13.00	-44.00	-10.49 Peak
4	457.77	-71.28	-65.87	-13.00	-58.28	-5.41 Peak
5	636.25	-66.11	-65.26	-13.00	-53.11	-0.85 Peak
6	917.55	-64.75	-65.75	-13.00	-51.75	1.00 Peak
7	3720.00	-54.42	-47.60	-13.00	-41.42	-6.82 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_20M Link_L-CH

Tested by: Thomas Wei

Freq	Read	Limit	Over			
	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-48.94	-48.53	-13.00	-35.94	-0.41 Peak
2	52.31	-53.15	-47.61	-13.00	-40.15	-5.54 Peak
3	200.72	-74.13	-66.15	-13.00	-61.13	-7.98 Peak
4	436.43	-71.18	-65.52	-13.00	-58.18	-5.66 Peak
5	605.21	-66.44	-65.67	-13.00	-53.44	-0.77 Peak
6	936.95	-62.21	-63.70	-13.00	-49.21	1.49 Peak
7	3720.00	-54.92	-48.10	-13.00	-41.92	-6.82 Peak
8	5580.00	-50.46	-48.54	-13.00	-37.46	-1.92 Peak
9 pp	7440.00	-40.29	-44.44	-13.00	-27.29	4.15 Peak

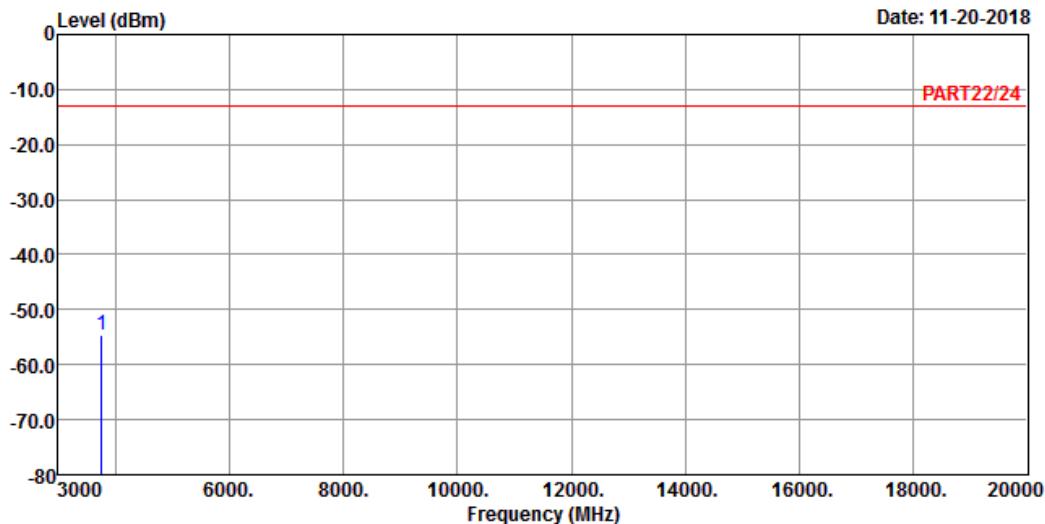
Middle Channel



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: Thomas Wei

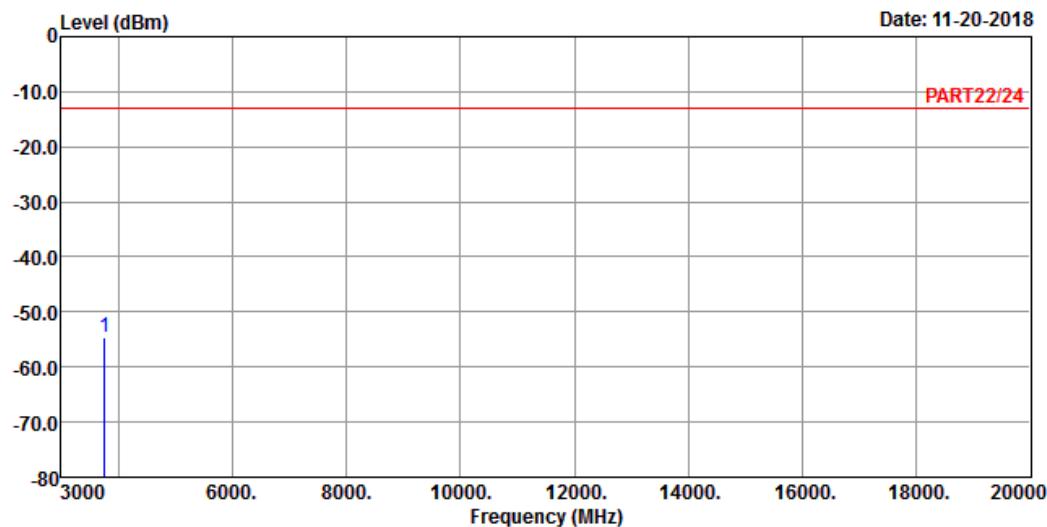
	Freq	Read Level	Limit Level	Over Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3765.00	-54.65	-48.05	-13.00	-41.65	-6.60	Peak



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: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp	3765.00	-54.66	-48.06	-13.00	-41.66	-6.60 Peak

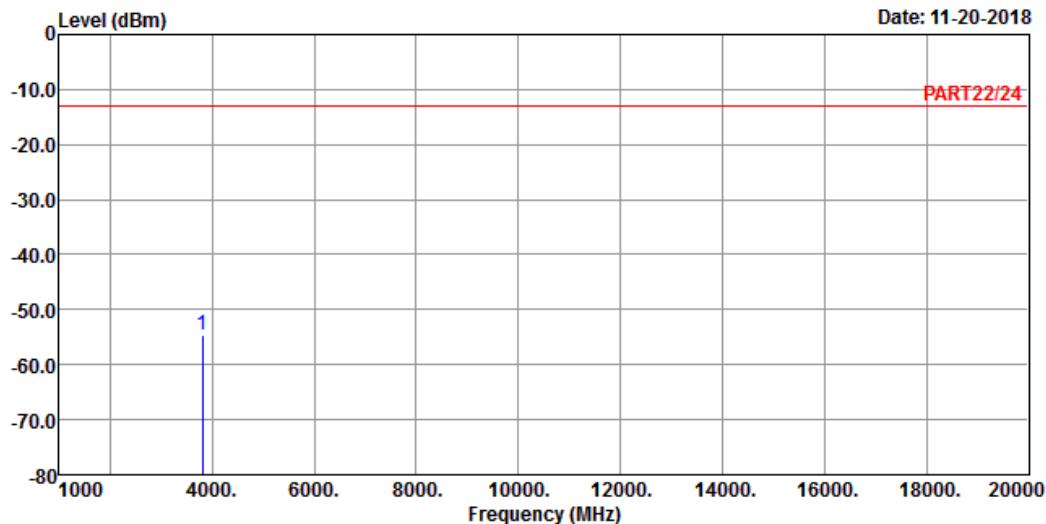
High Channel



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_20M Link_H-CH

Tested by: Thomas Wei

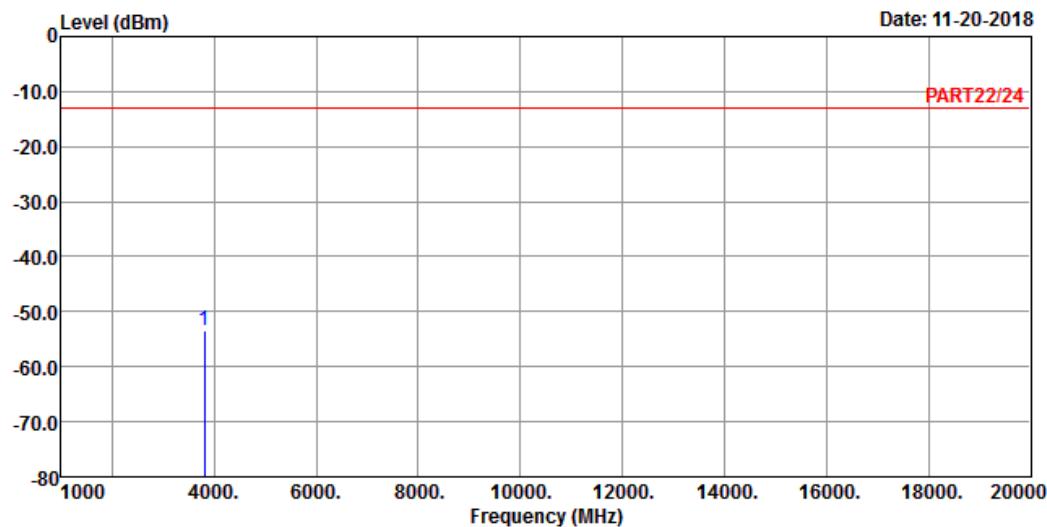
Freq	Level	Read	Limit	Over	Factor	Remark
		MHz	dBm	dBm		
1 pp	3810.00	-54.63	-48.23	-13.00	-41.63	-6.40 Peak



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_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Line	dBm	dB		
MHz	dBm	dBm	dB	dB		
1 pp	3810.00	-53.37	-46.97	-13.00	-40.37	-6.40 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

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

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