

FCC Test Report

(PART 24)

Report No.: RF180125C14-11

FCC ID: B94HNQ10CZV

Test Model: HSN-Q10C

Received Date: Feb. 05, 2018

Test Date: Mar. 28, 2018 ~ May 21, 2018

Issued Date: Jun. 01, 2018

Applicant: HP Inc.

Address: 3390 East Harmony Road, Fort Collins, Colorado 80528, United States

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

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

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

Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,
R.O.C

**FCC Registration /
Designation Number:** 427177 / TW0011



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Release Control Record

Issue No.	Description	Date Issued
RF180125C14-11	Original Release	Jun. 01, 2018

1 Certificate of Conformity

Product: Notebook Computer

Brand: HP

Test Model: HSN-Q10C

Sample Status: Production Unit

Applicant: HP Inc.

Test Date: Mar. 28, 2018 ~ May 21, 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 : Evonne Liu, **Date:** Jun. 01, 2018
Evonne Liu / Specialist

Approved by : Dylan Chiou, **Date:** Jun. 01, 2018
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.
2.1046 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 24.238(b)	Occupied Bandwidth	Pass	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -30.13 dB at 168.78 MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Test Site And Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Jul. 05, 2017	Jul. 04, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
HORN Antenna ETS	3117	00034128	Dec. 14, 2017	Dec. 13, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 07, 2017	Jul. 06, 2018
Preamplifier Agilent	310N	187226	Jun. 23, 2017	Jun. 22, 2018
Preamplifier Agilent	83017A	MY39501357	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 23, 2017	Jun. 22, 2018
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jun. 28, 2017	Jun. 27, 2019
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 28, 2017	Dec. 27, 2018
Temperature & Humidity Chamber	GTH-120-40-CP-A R	MAA1306-019	Sep. 08, 2017	Sep. 07, 2018
DC Power Supply Topward	33010D	807748	Oct. 25, 2016	Oct. 24, 2018
Digital Multimeter Fluke	87-III	70360742	Jun. 30, 2017	Jun. 29, 2018

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HsinTien Chamber 1.
3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The IC Site Registration No. is IC7450I-1.

3 General Information

3.1 General Description of EUT

Product	Notebook Computer	
Brand	HP	
Test Model	HSN-Q10C	
Status of EUT	Production Unit	
Power Supply Rating	20 or 15 or 12 or 9 or 5 Vdc (Adapter)	
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	56.62 mW
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	50.04 mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	50.35 mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	50.70 mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	50.93 mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	51.17 mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	52.12 mW
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	107.65 mW
	LTE Band 25 (Channel Bandwidth: 3 MHz)	118.03 mW
	LTE Band 25 (Channel Bandwidth: 5 MHz)	129.72 mW
	LTE Band 25 (Channel Bandwidth: 10 MHz)	143.22 mW
	LTE Band 25 (Channel Bandwidth: 15 MHz)	156.68 mW
	LTE Band 25 (Channel Bandwidth: 20 MHz)	167.88 mW

Emission Designator	WCDMA	4M16F9W
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 2 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 2 (Channel Bandwidth: 5 MHz)	4M49W7D
	LTE Band 2 (Channel Bandwidth: 10 MHz)	8M96W7D
	LTE Band 2 (Channel Bandwidth: 15 MHz)	13M5G7D
	LTE Band 2 (Channel Bandwidth: 20 MHz)	18M0W7D
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 25 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 25 (Channel Bandwidth: 5 MHz)	4M49W7D
	LTE Band 25 (Channel Bandwidth: 10 MHz)	8M97W7D
	LTE Band 25 (Channel Bandwidth: 15 MHz)	13M5G7D
	LTE Band 25 (Channel Bandwidth: 20 MHz)	18M0W7D
	Antenna Type	Refer to Note as below
	Accessory Device	Refer to Note as below
	Data Cable Supplied	Refer to Note as below

Note:

1. The WWAN module (Brand: FOXCONN, Model: T77W676) was installed in the EUT.
2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	hp	TPN-LA12	I/P: 100-240 Vac, 50-60 Hz, 1.6 A O/P: 20 Vdc, 3.25 A, 15 Vdc, 4.33 A, 12 Vdc, 5 A, 9 Vdc, 3 A, 5 Vdc, 3 A

3. The antenna information is listed as below.

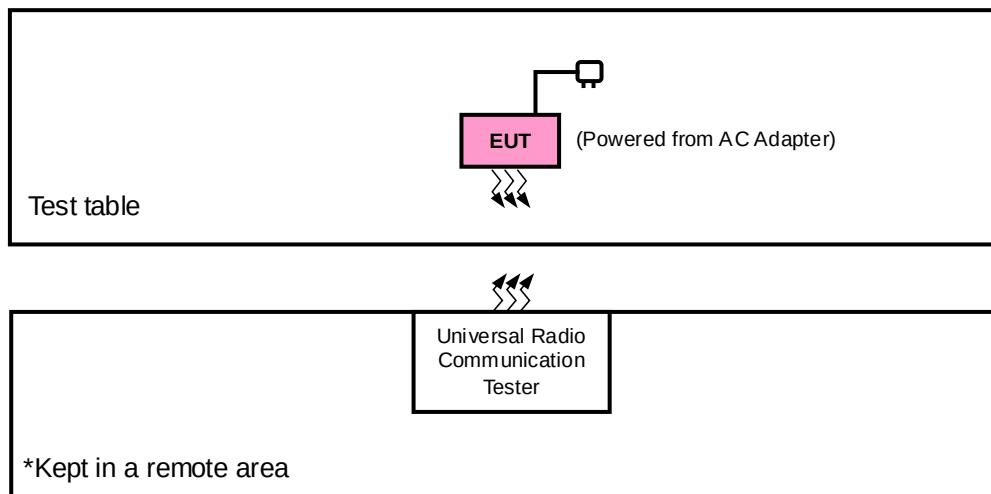
Ant. Type	Manuf.	Parts Number	Antenna Gain							
			LTE 2 / LTE 25 / WCDMA Band II	LTE 4 / LTE 66 / WCDMA Band IV	LTE 5 / LTE 26 / WCDMA Band V	LTE 7	LTE 12 / LTE 17	LTE 13	LTE 30	LTE 41
PIFA	INPAQ	Main Ant.: DQ6LB020017 (WA-P-LTE8LTE12LBLE-02-001) Aux Ant.: DQ6LB020017 (WA-P-LTE8LTE12LBLE-02-001)	-6.19	-5.79	-5.86	-4.9	-5.21	-4.32	-3.68	-4.9

Antenna Type	Vendor	Part Number	Antenna Gain (dBi)			
			Laptop PC Mode			
			WLAN 2.4GHz	WLAN 5.2GHz	WLAN 5.5GHz	WLAN 5.8GHz
PIFA	INPAQ	WLAN Main Antenna: DQ6LB020509 (WA-P-LBLE-02-059)	1.66	0.54	0.56	-0.21
		WLAN Aux Antenna: DQ6LB020509 (WA-P-LBLE-02-059)	Tablet PC Mode			
			WLAN 2.4GHz	WLAN 5.2GHz	WLAN 5.5GHz	WLAN 5.8GHz
			-0.36	3.36	2.21	3.08

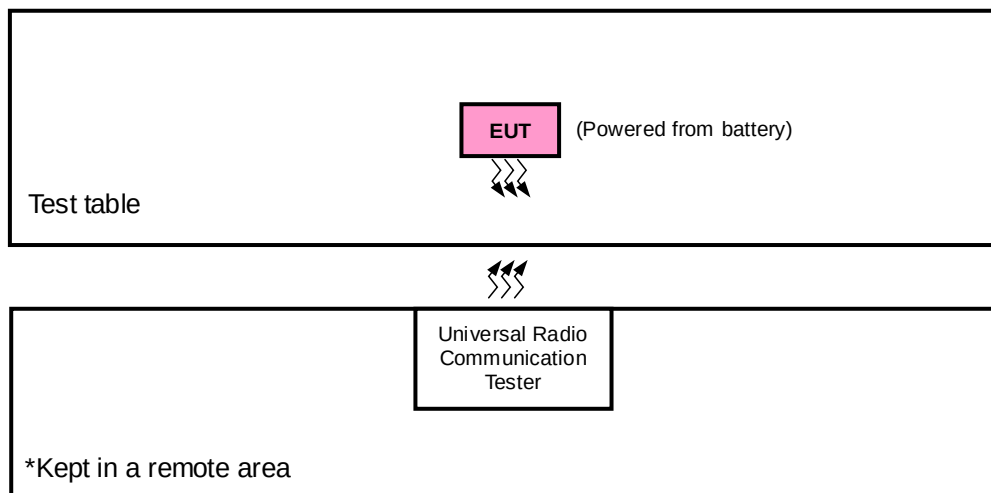
4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<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.

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

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	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 / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	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 / 0 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 / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset

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	QPSK	6 RB / 0 RB Offset
		18615 to 19185	18615	3 MHz	QPSK	1 RB / 5 RB Offset
			19185	3 MHz	QPSK	6 RB / 0 RB Offset
		18625 to 19175	18625	5 MHz	QPSK	1 RB / 0 RB Offset
			19175	5 MHz	QPSK	15 RB / 0 RB Offset
		18650 to 19150	18650	10 MHz	QPSK	1 RB / 14 RB Offset
			19150	10 MHz	QPSK	15 RB / 0 RB Offset
		18675 to 19125	18675	15 MHz	QPSK	1 RB / 0 RB Offset
			19125	15 MHz	QPSK	25 RB / 0 RB Offset
		18700 to 19100	18700	20 MHz	QPSK	1 RB / 24 RB Offset
			19100	20 MHz	QPSK	25 RB / 0 RB Offset
		18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
			18615, 18900, 19185	3 MHz	QPSK	50 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 49 RB Offset
			18650, 18900, 19150	10 MHz	QPSK	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK	1 RB / 0 RB Offset
			18700, 18900, 19100	20 MHz	QPSK	75 RB / 0 RB Offset
		18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 74 RB Offset
			18625, 18900, 19175	5 MHz	QPSK	75 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
			18700, 18900, 19100	20 MHz	QPSK	1 RB / 99 RB Offset
		18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	100 RB / 0 RB Offset
			18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
			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.

LTE Band 25

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	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 / 0 RB Offset
		26090 to 26640	26090, 26640	10 MHz	QPSK	1 RB / 0 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 / 7 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 24 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

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	26047 to 26683	26047	1.4 MHz	QPSK	1 RB / 0 RB Offset
			26683	1.4 MHz	QPSK	6 RB / 0 RB Offset
		26055 to 26675	26055	3 MHz	QPSK	1 RB / 5 RB Offset
			26675	3 MHz	QPSK	6 RB / 0 RB Offset
		26065 to 26665	26065	5 MHz	QPSK	1 RB / 0 RB Offset
			26665	5 MHz	QPSK	15 RB / 0 RB Offset
		26090 to 26640	26090	10 MHz	QPSK	1 RB / 0 RB Offset
			26640	10 MHz	QPSK	25 RB / 0 RB Offset
		26115 to 26615	26115	15 MHz	QPSK	1 RB / 24 RB Offset
			26615	15 MHz	QPSK	75 RB / 0 RB Offset
		26140 to 26590	26140	20 MHz	QPSK	1 RB / 74 RB Offset
			26590	20 MHz	QPSK	75 RB / 0 RB Offset
		26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
			26055, 26365, 26675	3 MHz	QPSK	100 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK	1 RB / 99 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK	100 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK	1 RB / 5 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK	1 RB / 7 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK	1 RB / 12 RB Offset
-	Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 24 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.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	26 deg. C, 58 % RH	6.54 Vdc	Karl Lee
Frequency Stability	26 deg. C, 58 % RH	6.54 Vdc	Wayne Lin
Occupied Bandwidth	26 deg. C, 58 % RH	6.54 Vdc	Wayne Lin
Band Edge	26 deg. C, 58 % RH	6.54 Vdc	Wayne Lin
Peak to Average Ratio	26 deg. C, 58 % RH	6.54 Vdc	Wayne Lin
Conducted Emission	26 deg. C, 58 % RH	6.54 Vdc	Wayne Lin
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

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 v02r02

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 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 from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$.

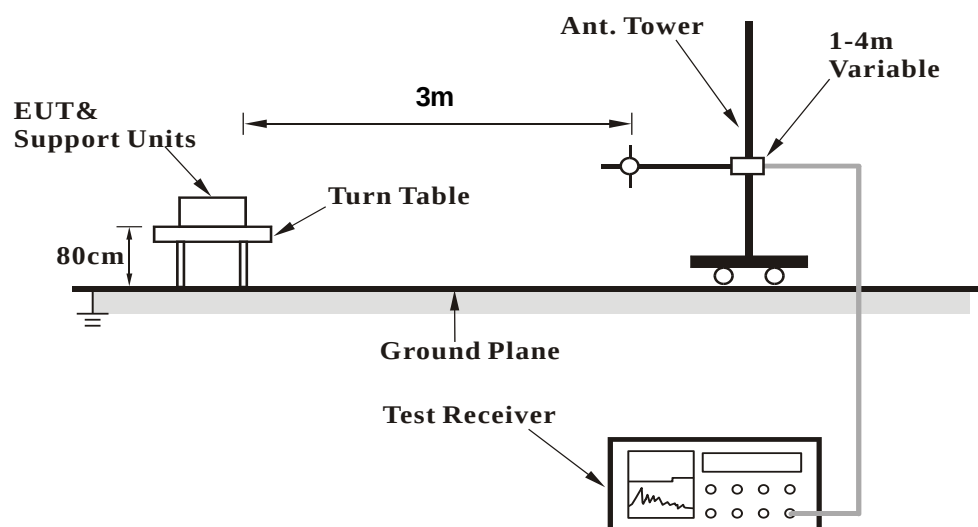
Conducted Power Measurement:

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.

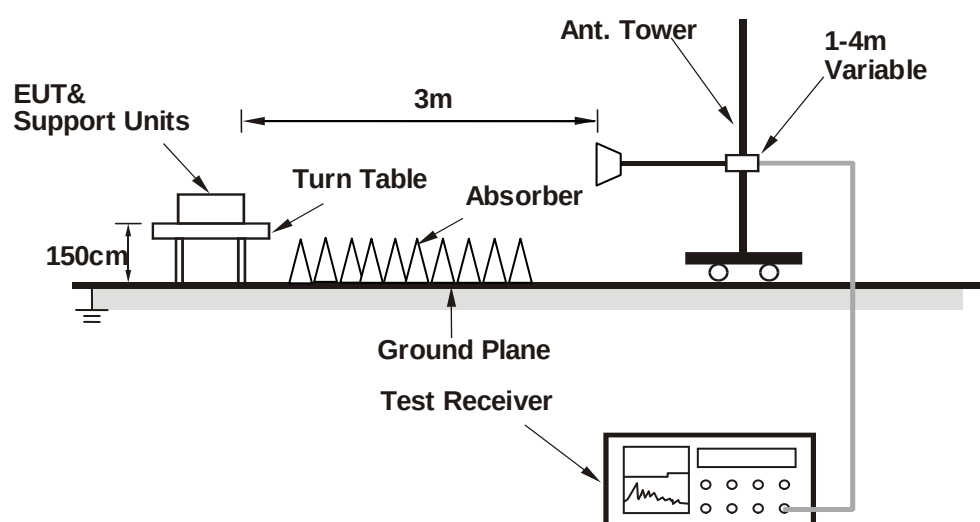
4.1.3 Test Setup

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).

4.1.4 Test Results

Band	WCDMA Band II			3GPP MPR (dB)
Channel	9262	9400	9538	
Frequency (MHz)	1852.4	1880.0	1907.6	
RMC 12.2K	23.56	23.60	23.59	-
HSDPA Subtest-1	22.55	22.59	22.58	0
HSDPA Subtest-2	22.61	22.65	22.64	0
HSDPA Subtest-3	22.06	22.10	22.09	0.5
HSDPA Subtest-4	22.04	22.08	22.07	0.5
HSUPA Subtest-1	22.59	22.63	22.62	0
HSUPA Subtest-2	20.59	20.63	20.62	2
HSUPA Subtest-3	21.57	21.61	21.60	1
HSUPA Subtest-4	20.59	20.63	20.62	2
HSUPA Subtest-5	22.56	22.60	22.59	0

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)		1850.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	23.59	23.59	23.46	0	15M	QPSK	1	0	23.53	23.53	23.39	0
		1	50	23.22	23.37	23.29	0			1	37	23.14	23.29	23.21	0
		1	99	23.38	23.64	23.45	0			1	74	23.30	23.58	23.38	0
		50	0	22.25	22.47	22.25	1			36	0	22.11	22.37	22.11	1
		50	25	22.28	22.31	22.23	1			36	19	22.15	22.20	22.09	1
		50	50	22.29	22.57	22.36	1			36	39	22.18	22.48	22.25	1
		100	0	22.21	22.51	22.28	1			75	0	22.06	22.42	22.16	1
		1	0	22.63	22.63	22.50	1		16QAM	1	0	22.57	22.57	22.42	1
	16QAM	1	50	22.23	22.39	22.30	1			1	37	22.12	22.29	22.19	1
		1	99	22.40	22.69	22.47	1			1	74	22.31	22.64	22.40	1
		50	0	21.23	21.47	21.23	2			36	0	21.06	21.34	21.06	2
		50	25	21.26	21.30	21.19	2			36	19	21.10	21.16	21.04	2
		50	50	21.28	21.58	21.35	2			36	39	21.14	21.47	21.22	2
		100	0	21.16	21.51	21.27	2			75	0	21.01	21.41	21.11	2
		1	0	21.65	21.65	21.50	1			1	0	21.65	21.65	21.50	1
10M	QPSK	1	0	23.48	23.48	23.34	0	5M	QPSK	1	0	23.42	23.42	23.26	0
		1	24	23.03	23.20	23.11	0			1	12	23.01	23.14	23.05	0
		1	49	23.24	23.54	23.31	0			1	24	23.15	23.48	23.23	0
		25	0	22.05	22.27	22.01	1			12	0	22.05	22.14	22.09	1
		25	12	22.01	22.08	22.03	1			12	6	22.04	22.15	22.08	1
		25	25	22.05	22.38	22.14	1			12	13	22.04	22.28	22.02	1
		50	0	22.03	22.31	22.03	1			25	0	22.03	22.20	22.01	1
		1	0	22.54	22.54	22.38	1		16QAM	1	0	22.65	22.45	22.27	1
	16QAM	1	24	22.05	22.25	22.15	1			1	12	22.16	22.14	22.05	1
		1	49	22.27	22.59	22.35	1			1	24	22.36	22.52	22.23	1
		25	0	21.08	21.24	21.06	2			12	0	21.03	21.12	21.05	2
		25	12	21.05	21.06	21.08	2			12	6	21.04	21.08	21.04	2
		25	25	21.03	21.39	21.12	2			12	13	21.07	21.26	21.07	2
		50	0	21.06	21.32	21.01	2			25	0	21.05	21.19	21.06	2
		1	0	21.65	21.65	21.50	1			1	0	21.65	21.65	21.50	1
3M	QPSK	1	0	23.38	23.38	23.22	0	1.4M	QPSK	1	0	23.23	23.25	23.11	0
		1	7	23.15	23.08	23.11	0			1	2	23.18	23.15	23.01	0
		1	14	23.10	23.44	23.20	0			1	5	23.15	23.34	23.06	0
		8	0	22.85	22.02	22.18	1			3	0	23.08	23.21	23.05	0
		8	3	22.74	22.09	22.15	1			3	1	23.09	23.18	23.02	0
		8	7	22.75	22.17	22.17	1			3	3	23.02	23.15	23.01	0
		15	0	22.72	22.08	22.09	1			6	0	22.84	23.09	23.05	1
		1	0	22.42	22.42	22.25	1		16QAM	1	0	22.37	22.37	22.19	1
	16QAM	1	7	22.22	22.07	22.09	1			1	2	22.18	22.02	22.05	1
		1	14	22.10	22.49	22.20	1			1	5	22.08	22.44	22.16	1
		8	0	22.09	21.05	22.15	2			3	0	22.09	22.15	22.11	1
		8	3	22.15	21.07	22.13	2			3	1	22.04	22.11	22.08	1
		8	7	22.11	21.19	22.16	2			3	3	22.06	22.05	22.05	1
		15	0	22.13	21.12	22.09	2			6	0	21.13	21.02	21.15	2
		1	0	21.65	21.65	21.50	1			1	0	21.65	21.65	21.50	1

LTE Band 25															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	23.13	23.23	23.17	0	15M	QPSK	1	0	23.10	23.20	23.14	0
		1	50	23.11	23.21	23.14	0			1	37	23.08	23.18	23.11	0
		1	99	23.11	23.15	23.15	0			1	74	23.08	23.12	23.12	0
		50	0	22.08	22.18	22.12	1			36	0	22.05	22.15	22.09	1
		50	25	22.01	22.11	22.05	1			36	19	22.06	22.08	22.02	1
		50	50	22.03	22.13	22.07	1			36	39	22.08	22.10	22.04	1
		100	0	22.07	22.17	22.11	1			75	0	22.04	22.14	22.08	1
		1	0	22.10	22.20	22.14	1			16QAM	1	0	22.13	22.23	22.17
	1	50	22.08	22.18	22.11	1	1		37		22.11	22.21	22.14	1	
	1	99	22.08	22.12	22.12	1	1		74		22.11	22.15	22.15	1	
	50	0	21.05	21.15	21.09	2	36		0		21.08	21.18	21.12	2	
	50	25	21.05	21.08	21.02	2	36		19		21.08	21.11	21.05	2	
	50	50	21.02	21.10	21.04	2	36		39		21.05	21.13	21.07	2	
	100	0	21.04	21.14	21.08	2	75		0	21.07	21.17	21.11	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		26090	26365	26640				Channel		26065	26365	26665	
		Frequency (MHz)		1855.0	1882.5	1910.0				Frequency (MHz)		1852.5	1882.5	1912.5	
10M	QPSK	1	0	23.14	23.14	23.18	0	5M	QPSK	1	0	23.12	23.12	23.16	0
		1	24	23.12	23.22	23.15	0			1	12	23.10	23.20	23.13	0
		1	49	23.12	23.16	23.16	0			1	24	23.10	23.14	23.14	0
		25	0	22.09	22.19	22.13	1			12	0	22.07	22.17	22.11	1
		25	12	22.10	22.12	22.06	1			12	6	22.08	22.10	22.04	1
		25	25	22.12	22.14	22.08	1			12	13	22.10	22.12	22.06	1
		50	0	22.08	22.18	22.12	1			25	0	22.06	22.16	22.10	1
		1	0	22.11	22.21	22.15	1			16QAM	1	0	22.07	22.17	22.11
	1	24	22.09	22.19	22.12	1	1		12		22.05	22.15	22.08	1	
	1	49	22.09	22.13	22.13	1	1		24		22.05	22.09	22.09	1	
	25	0	21.06	21.16	21.10	2	12		0		21.02	21.12	21.06	2	
	25	12	21.06	21.09	21.03	2	12		6		21.02	21.05	21.05	2	
	25	25	21.03	21.11	21.05	2	12		13		21.01	21.07	21.01	2	
	50	0	21.05	21.15	21.09	2	25		0	21.01	21.11	21.05	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		26055	26365	26675				Channel		26047	26365	26683	
		Frequency (MHz)		1851.5	1882.5	1913.5				Frequency (MHz)		1850.7	1882.5	1914.3	
3M	QPSK	1	0	23.19	23.19	23.08	0	1.4M	QPSK	1	0	23.21	23.21	23.10	0
		1	7	23.17	23.11	23.20	0			1	2	23.19	23.13	23.22	0
		1	14	23.17	23.21	23.21	0			1	5	23.19	23.11	23.15	0
		8	0	22.14	22.24	22.18	1			3	0	23.18	23.13	23.07	0
		8	3	22.15	22.17	22.11	1			3	1	23.16	23.05	23.19	0
		8	7	22.17	22.19	22.13	1			3	3	23.16	23.03	23.12	0
		15	0	22.13	22.23	22.17	1			6	0	22.15	22.25	22.19	1
		1	0	22.04	22.14	22.08	1			16QAM	1	0	22.02	22.12	22.06
	1	7	22.02	22.12	22.05	1	1		2		22.14	22.10	22.03	1	
	1	14	22.02	22.06	22.06	1	1		5		22.08	22.04	22.04	1	
	8	0	21.05	21.09	21.03	2	3		0		22.11	22.13	22.05	1	
	8	3	21.04	21.02	21.09	2	3		1		22.05	22.11	22.04	1	
	8	7	21.06	21.04	21.05	2	3		3		22.01	22.08	22.01	1	
	15	0	21.11	21.08	21.02	2	6		0	21.09	21.06	21.09	2		

EIRP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	9262	1852.4	-20.66	38.19	17.53	56.62	H
	9400	1880.0	-21.22	38.70	17.48	55.98	
	9538	1907.6	-21.87	39.35	17.48	55.98	
	9262	1852.4	-25.96	38.48	12.52	17.86	V
	9400	1880.0	-26.13	38.59	12.46	17.62	
	9538	1907.6	-26.40	38.87	12.47	17.66	

LTE Band 2							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18607	1850.7	-27.71	44.70	16.99	50.00	H
	18900	1880.0	-27.78	44.70	16.92	49.20	
	19193	1909.3	-27.58	44.57	16.99	50.04	
	18607	1850.7	-32.28	44.27	11.99	15.81	V
	18900	1880.0	-32.91	44.87	11.96	15.70	
	19193	1909.3	-32.63	44.61	11.98	15.79	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	18607	1850.7	-28.74	44.70	15.96	39.45	H
	18900	1880.0	-28.76	44.70	15.94	39.26	
	19193	1909.3	-28.60	44.57	15.97	39.56	
	18607	1850.7	-33.27	44.27	11.00	12.59	V
	18900	1880.0	-33.94	44.87	10.93	12.39	
	19193	1909.3	-33.66	44.61	10.95	12.45	

LTE Band 2							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18615	1851.5	-27.69	44.70	17.01	50.23	H
	18900	1880.0	-27.68	44.70	17.02	50.35	
	19185	1908.5	-27.56	44.57	17.01	50.27	
	18615	1851.5	-32.24	44.27	12.03	15.96	V
	18900	1880.0	-32.85	44.87	12.02	15.92	
	19185	1908.5	-32.66	44.61	11.95	15.68	
Channel Bandwidth: 3 MHz / 16QAM							
X	18615	1851.5	-28.61	44.70	16.09	40.64	H
	18900	1880.0	-28.72	44.70	15.98	39.63	
	19185	1908.5	-28.54	44.57	16.03	40.11	
	18615	1851.5	-33.21	44.27	11.06	12.76	V
	18900	1880.0	-33.86	44.87	11.01	12.62	
	19185	1908.5	-33.70	44.61	10.91	12.34	

LTE Band 2							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18625	1852.5	-27.65	44.70	17.05	50.70	H
	18900	1880.0	-27.68	44.70	17.02	50.35	
	19175	1907.5	-27.54	44.57	17.03	50.50	
	18625	1852.5	-32.22	44.27	12.05	16.03	V
	18900	1880.0	-32.85	44.87	12.02	15.92	
	19175	1907.5	-32.61	44.61	12.00	15.86	
Channel Bandwidth: 5 MHz / 16QAM							
X	18625	1852.5	-28.65	44.70	16.05	40.27	H
	18900	1880.0	-28.66	44.70	16.04	40.18	
	19175	1907.5	-28.54	44.57	16.03	40.11	
	18625	1852.5	-33.16	44.27	11.11	12.91	V
	18900	1880.0	-33.82	44.87	11.05	12.74	
	19175	1907.5	-33.53	44.61	11.08	12.83	

LTE Band 2							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18650	1855.0	-27.63	44.70	17.07	50.93	H
	18900	1880.0	-27.64	44.70	17.06	50.82	
	19150	1905.0	-27.55	44.57	17.02	50.38	
	18650	1855.0	-32.21	44.27	12.06	16.07	V
	18900	1880.0	-32.80	44.87	12.07	16.11	
	19150	1905.0	-32.59	44.61	12.02	15.93	
Channel Bandwidth: 10 MHz / 16QAM							
X	18650	1855.0	-28.64	44.70	16.06	40.36	H
	18900	1880.0	-28.65	44.70	16.05	40.27	
	19150	1905.0	-28.51	44.57	16.06	40.39	
	18650	1855.0	-33.20	44.27	11.07	12.79	V
	18900	1880.0	-33.83	44.87	11.04	12.71	
	19150	1905.0	-33.64	44.61	10.97	12.51	

LTE Band 2							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18675	1857.5	-27.61	44.70	17.09	51.17	H
	18900	1880.0	-27.64	44.70	17.06	50.82	
	19125	1902.5	-27.52	44.57	17.05	50.73	
	18675	1857.5	-32.14	44.27	12.13	16.33	V
	18900	1880.0	-32.83	44.87	12.04	16.00	
	19125	1902.5	-32.55	44.61	12.06	16.08	
Channel Bandwidth: 15 MHz / 16QAM							
X	18675	1857.5	-28.61	44.70	16.09	40.64	H
	18900	1880.0	-28.66	44.70	16.04	40.18	
	19125	1902.5	-28.53	44.57	16.04	40.21	
	18675	1857.5	-33.10	44.27	11.17	13.09	V
	18900	1880.0	-33.84	44.87	11.03	12.68	
	19125	1902.5	-33.52	44.61	11.09	12.86	

LTE Band 2							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18700	1860.0	-27.53	44.70	17.17	52.12	H
	18900	1880.0	-27.54	44.70	17.16	52.00	
	19100	1900.0	-27.46	44.57	17.11	51.44	
	18700	1860.0	-32.13	44.27	12.14	16.37	V
	18900	1880.0	-32.75	44.87	12.12	16.29	
	19100	1900.0	-32.55	44.61	12.06	16.08	
Channel Bandwidth: 20 MHz / 16QAM							
X	18700	1860.0	-28.51	44.70	16.19	41.59	H
	18900	1880.0	-28.53	44.70	16.17	41.40	
	19100	1900.0	-28.41	44.57	16.16	41.33	
	18700	1860.0	-33.11	44.27	11.16	13.06	V
	18900	1880.0	-33.70	44.87	11.17	13.09	
	19100	1900.0	-33.51	44.61	11.10	12.89	

LTE Band 25							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26047	1850.7	-20.25	36.57	16.32	42.85	H
	26365	1882.5	-21.14	37.22	16.08	40.55	
	26683	1914.3	-23.17	39.09	15.92	39.08	
	26047	1850.7	-17.33	37.65	20.32	107.65	V
	26365	1882.5	-17.42	37.58	20.16	103.75	
	26683	1914.3	-18.10	37.92	19.82	95.94	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	26047	1850.7	-21.24	36.57	15.33	34.12	H
	26365	1882.5	-22.13	37.22	15.09	32.28	
	26683	1914.3	-24.16	39.09	14.93	31.12	
	26047	1850.7	-18.32	37.65	19.33	85.70	V
	26365	1882.5	-18.41	37.58	19.17	82.60	
	26683	1914.3	-19.09	37.92	18.83	76.38	

LTE Band 25							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26055	1851.5	-19.85	36.57	16.72	46.99	H
	26365	1882.5	-20.74	37.22	16.48	44.46	
	26675	1913.5	-22.79	39.11	16.32	42.85	
	26055	1851.5	-16.93	37.65	20.72	118.03	V
	26365	1882.5	-17.02	37.58	20.56	113.76	
	26675	1913.5	-17.71	37.93	20.22	105.20	
Channel Bandwidth: 3 MHz / 16QAM							
X	26055	1851.5	-20.86	36.57	15.71	37.24	H
	26365	1882.5	-21.75	37.22	15.47	35.24	
	26675	1913.5	-23.80	39.11	15.31	33.96	
	26055	1851.5	-17.94	37.65	19.71	93.54	V
	26365	1882.5	-18.03	37.58	19.55	90.16	
	26675	1913.5	-18.72	37.93	19.21	83.37	

LTE Band 25							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26065	1852.5	-19.44	36.57	17.13	51.64	H
	26365	1882.5	-20.33	37.22	16.89	48.87	
	26665	1912.5	-21.38	38.11	16.73	47.10	
	26065	1852.5	-16.52	37.65	21.13	129.72	V
	26365	1882.5	-16.61	37.58	20.97	125.03	
	26665	1912.5	-17.33	37.96	20.63	115.61	
Channel Bandwidth: 5 MHz / 16QAM							
X	26065	1852.5	-20.46	36.57	16.11	40.83	H
	26365	1882.5	-21.35	37.22	15.87	38.64	
	26665	1912.5	-22.40	38.11	15.71	37.24	
	26065	1852.5	-17.54	37.65	20.11	102.57	V
	26365	1882.5	-17.63	37.58	19.95	98.86	
	26665	1912.5	-18.35	37.96	19.61	91.41	

LTE Band 25							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26090	1855.0	-19.01	36.57	17.56	57.02	H
	26365	1882.5	-19.90	37.22	17.32	53.95	
	26640	1910.0	-21.03	38.19	17.16	52.00	
	26090	1855.0	-16.09	37.65	21.56	143.22	V
	26365	1882.5	-16.18	37.58	21.40	138.04	
	26640	1910.0	-17.09	38.15	21.06	127.64	
Channel Bandwidth: 10 MHz / 16QAM							
X	26090	1855.0	-19.99	36.57	16.58	45.50	H
	26365	1882.5	-20.88	37.22	16.34	43.05	
	26640	1910.0	-22.01	38.19	16.18	41.50	
	26090	1855.0	-17.07	37.65	20.58	114.29	V
	26365	1882.5	-17.16	37.58	20.42	110.15	
	26640	1910.0	-18.07	38.15	20.08	101.86	

LTE Band 25							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26115	1857.5	-18.62	36.57	17.95	62.37	H
	26365	1882.5	-19.51	37.22	17.71	59.02	
	26615	1907.5	-20.68	38.23	17.55	56.89	
	26115	1857.5	-15.70	37.65	21.95	156.68	V
	26365	1882.5	-15.79	37.58	21.79	151.01	
	26615	1907.5	-16.77	38.22	21.45	139.64	
Channel Bandwidth: 15 MHz / 16QAM							
X	26115	1857.5	-19.61	36.57	16.96	49.66	H
	26365	1882.5	-20.50	37.22	16.72	46.99	
	26615	1907.5	-21.67	38.23	16.56	45.29	
	26115	1857.5	-16.69	37.65	20.96	124.74	V
	26365	1882.5	-16.78	37.58	20.80	120.23	
	26615	1907.5	-17.76	38.22	20.46	111.17	

LTE Band 25							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26140	1860.0	-18.32	36.57	18.25	66.83	H
	26365	1882.5	-19.21	37.22	18.01	63.24	
	26590	1905.0	-20.87	38.72	17.85	60.95	
	26140	1860.0	-15.40	37.65	22.25	167.88	V
	26365	1882.5	-15.49	37.58	22.09	161.81	
	26590	1905.0	-15.81	37.56	21.75	149.62	
Channel Bandwidth: 20 MHz / 16QAM							
X	26140	1860.0	-19.33	36.57	17.24	52.97	H
	26365	1882.5	-20.22	37.22	17.00	50.12	
	26590	1905.0	-21.88	38.72	16.84	48.31	
	26140	1860.0	-16.41	37.65	21.24	133.05	V
	26365	1882.5	-16.50	37.58	21.08	128.23	
	26590	1905.0	-16.82	37.56	20.74	118.58	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

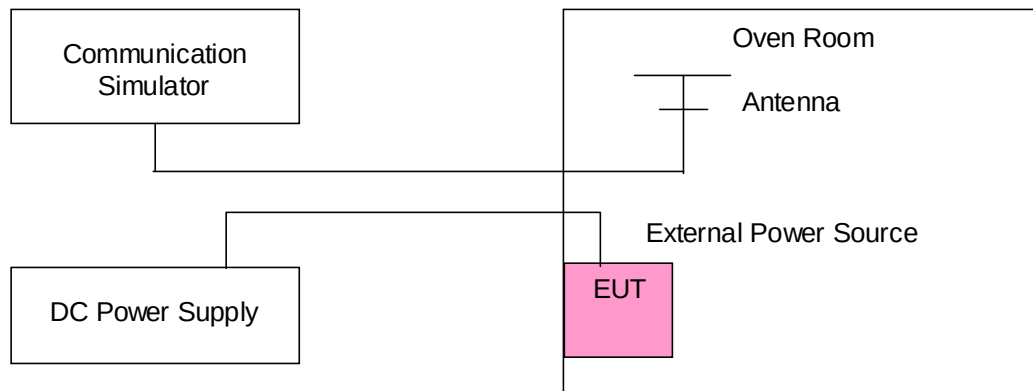
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 Test Procedure

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

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

4.2.3 Test Setup



4.2.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	WCDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1852.400004	0.002	1907.600002	0.001	2.5
6.54	1852.400002	0.001	1907.600003	0.001	2.5
8.85	1852.400002	0.001	1907.600004	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	WCDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1852.400001	0.001	1907.600002	0.001	2.5
-20	1852.400002	0.001	1907.600001	0.001	2.5
-10	1852.400002	0.001	1907.600003	0.002	2.5
0	1852.400003	0.002	1907.600003	0.002	2.5
10	1852.400002	0.001	1907.600001	0.001	2.5
20	1852.399998	-0.001	1907.599998	-0.001	2.5
30	1852.399998	-0.001	1907.599997	-0.002	2.5
40	1852.399996	-0.002	1907.599999	-0.001	2.5
50	1852.399999	-0.001	1907.599998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1850.700004	0.002	1909.300002	0.001	2.5
6.54	1850.700004	0.002	1909.300002	0.001	2.5
8.85	1850.700003	0.001	1909.300002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1850.700002	0.001	1909.300002	0.001	2.5
-20	1850.700004	0.002	1909.300001	0.001	2.5
-10	1850.700003	0.002	1909.300001	0.001	2.5
0	1850.700004	0.002	1909.300002	0.001	2.5
10	1850.700003	0.002	1909.300002	0.001	2.5
20	1850.699998	-0.001	1909.299998	-0.001	2.5
30	1850.699999	-0.001	1909.299997	-0.002	2.5
40	1850.699997	-0.002	1909.299996	-0.002	2.5
50	1850.699996	-0.002	1909.299997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1851.500003	0.001	1908.500003	0.002	2.5
6.54	1851.500002	0.001	1908.500002	0.001	2.5
8.85	1851.500003	0.001	1908.500002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1851.500003	0.002	1908.500001	0.001	2.5
-20	1851.500002	0.001	1908.500001	0.001	2.5
-10	1851.500004	0.002	1908.500002	0.001	2.5
0	1851.500002	0.001	1908.500002	0.001	2.5
10	1851.500003	0.001	1908.500003	0.002	2.5
20	1851.499998	-0.001	1908.499997	-0.002	2.5
30	1851.499998	-0.001	1908.499997	-0.002	2.5
40	1851.499998	-0.001	1908.499996	-0.002	2.5
50	1851.499997	-0.002	1908.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1852.500003	0.002	1907.500001	0.001	2.5
6.54	1852.500003	0.002	1907.500002	0.001	2.5
8.85	1852.500003	0.002	1907.500003	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1852.500003	0.002	1907.500002	0.001	2.5
-20	1852.500001	0.001	1907.500004	0.002	2.5
-10	1852.500004	0.002	1907.500002	0.001	2.5
0	1852.500004	0.002	1907.500001	0.001	2.5
10	1852.500004	0.002	1907.500002	0.001	2.5
20	1852.499996	-0.002	1907.499998	-0.001	2.5
30	1852.499997	-0.001	1907.499997	-0.001	2.5
40	1852.499999	-0.001	1907.499997	-0.002	2.5
50	1852.499999	-0.001	1907.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1855.000004	0.002	1905.000003	0.002	2.5
6.54	1855.000002	0.001	1905.000003	0.001	2.5
8.85	1855.000002	0.001	1905.000002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	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	2.5
-20	1855.000003	0.001	1905.000001	0.001	2.5
-10	1855.000004	0.002	1905.000002	0.001	2.5
0	1855.000002	0.001	1905.000003	0.001	2.5
10	1855.000004	0.002	1905.000002	0.001	2.5
20	1854.999997	-0.002	1904.999997	-0.002	2.5
30	1854.999998	-0.001	1904.999996	-0.002	2.5
40	1854.999996	-0.002	1904.999996	-0.002	2.5
50	1854.999997	-0.002	1904.999996	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1857.500002	0.001	1902.500003	0.002	2.5
6.54	1857.500001	0.001	1902.500001	0.001	2.5
8.85	1857.500003	0.001	1902.500003	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1857.500001	0.001	1902.500004	0.002	2.5
-20	1857.500002	0.001	1902.500004	0.002	2.5
-10	1857.500004	0.002	1902.500003	0.001	2.5
0	1857.500001	0.001	1902.500003	0.001	2.5
10	1857.500004	0.002	1902.500002	0.001	2.5
20	1857.499998	-0.001	1902.499998	-0.001	2.5
30	1857.499998	-0.001	1902.499998	-0.001	2.5
40	1857.499998	-0.001	1902.499998	-0.001	2.5
50	1857.499996	-0.002	1902.499999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1860.000002	0.001	1900.000002	0.001	2.5
6.54	1860.000003	0.002	1900.000001	0.001	2.5
8.85	1860.000002	0.001	1900.000002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1860.000002	0.001	1900.000002	0.001	2.5
-20	1860.000002	0.001	1900.000003	0.001	2.5
-10	1860.000002	0.001	1900.000002	0.001	2.5
0	1860.000002	0.001	1900.000002	0.001	2.5
10	1860.000002	0.001	1900.000003	0.001	2.5
20	1859.999998	-0.001	1899.999997	-0.002	2.5
30	1859.999997	-0.002	1899.999998	-0.001	2.5
40	1859.999999	-0.001	1899.999998	-0.001	2.5
50	1859.999997	-0.002	1899.999998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1850.700004	0.002	1914.300004	0.002	2.5
6.54	1850.700002	0.001	1914.300001	0.001	2.5
8.85	1850.700003	0.002	1914.300003	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1850.700002	0.001	1914.300002	0.001	2.5
-20	1850.700003	0.002	1914.300002	0.001	2.5
-10	1850.700003	0.002	1914.300002	0.001	2.5
0	1850.700002	0.001	1914.300002	0.001	2.5
10	1850.700001	0.001	1914.300004	0.002	2.5
20	1850.699998	-0.001	1914.299996	-0.002	2.5
30	1850.699998	-0.001	1914.299998	-0.001	2.5
40	1850.699996	-0.002	1914.299997	-0.002	2.5
50	1850.699997	-0.001	1914.299999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1851.500001	0.001	1913.500003	0.002	2.5
6.54	1851.500002	0.001	1913.500003	0.001	2.5
8.85	1851.500002	0.001	1913.500003	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1851.500004	0.002	1913.500004	0.002	2.5
-20	1851.500003	0.002	1913.500004	0.002	2.5
-10	1851.500002	0.001	1913.500003	0.002	2.5
0	1851.500003	0.002	1913.500003	0.001	2.5
10	1851.500002	0.001	1913.500003	0.001	2.5
20	1851.499998	-0.001	1913.499998	-0.001	2.5
30	1851.499997	-0.002	1913.499996	-0.002	2.5
40	1851.499996	-0.002	1913.499998	-0.001	2.5
50	1851.499999	-0.001	1913.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1852.500003	0.001	1912.500004	0.002	2.5
6.54	1852.500002	0.001	1912.500003	0.002	2.5
8.85	1852.500003	0.002	1912.500003	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1852.500002	0.001	1912.500002	0.001	2.5
-20	1852.500001	0.001	1912.500001	0.001	2.5
-10	1852.500003	0.002	1912.500002	0.001	2.5
0	1852.500001	0.001	1912.500001	0.001	2.5
10	1852.500003	0.001	1912.500003	0.002	2.5
20	1852.499996	-0.002	1912.499999	-0.001	2.5
30	1852.499996	-0.002	1912.499997	-0.002	2.5
40	1852.499998	-0.001	1912.499998	-0.001	2.5
50	1852.499996	-0.002	1912.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1855.000001	0.001	1910.000002	0.001	2.5
6.54	1855.000004	0.002	1910.000003	0.001	2.5
8.85	1855.000004	0.002	1910.000003	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1855.000004	0.002	1910.000004	0.002	2.5
-20	1855.000002	0.001	1910.000002	0.001	2.5
-10	1855.000004	0.002	1910.000004	0.002	2.5
0	1855.000002	0.001	1910.000002	0.001	2.5
10	1855.000002	0.001	1910.000002	0.001	2.5
20	1854.999998	-0.001	1909.999997	-0.002	2.5
30	1854.999996	-0.002	1909.999997	-0.002	2.5
40	1854.999996	-0.002	1909.999996	-0.002	2.5
50	1854.999998	-0.001	1909.999996	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1857.500001	0.001	1907.500001	0.001	2.5
6.54	1857.500003	0.002	1907.500003	0.002	2.5
8.85	1857.500003	0.001	1907.500004	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1857.500001	0.001	1907.500003	0.001	2.5
-20	1857.500002	0.001	1907.500003	0.002	2.5
-10	1857.500004	0.002	1907.500004	0.002	2.5
0	1857.500001	0.001	1907.500002	0.001	2.5
10	1857.500002	0.001	1907.500002	0.001	2.5
20	1857.499997	-0.001	1907.499998	-0.001	2.5
30	1857.499999	-0.001	1907.499998	-0.001	2.5
40	1857.499999	-0.001	1907.499997	-0.002	2.5
50	1857.499999	-0.001	1907.499998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
7.7	1860.000001	0.001	1905.000004	0.002	2.5
6.54	1860.000003	0.001	1905.000001	0.001	2.5
8.85	1860.000001	0.001	1905.000002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 6.54 Vdc to 8.85 Vdc.

Frequency Error vs. Temperature

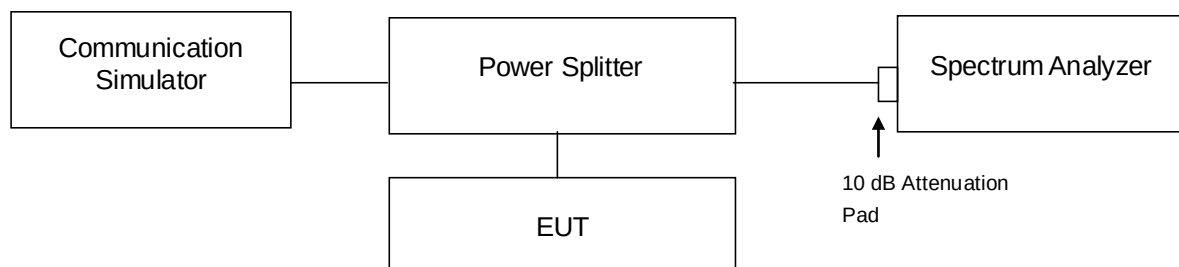
Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1860.000001	0.001	1905.000003	0.002	2.5
-20	1860.000001	0.001	1905.000001	0.001	2.5
-10	1860.000001	0.001	1905.000002	0.001	2.5
0	1860.000002	0.001	1905.000002	0.001	2.5
10	1860.000003	0.001	1905.000003	0.002	2.5
20	1859.999996	-0.002	1904.999998	-0.001	2.5
30	1859.999998	-0.001	1904.999997	-0.002	2.5
40	1859.999998	-0.001	1904.999997	-0.002	2.5
50	1859.999999	-0.001	1904.999997	-0.002	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

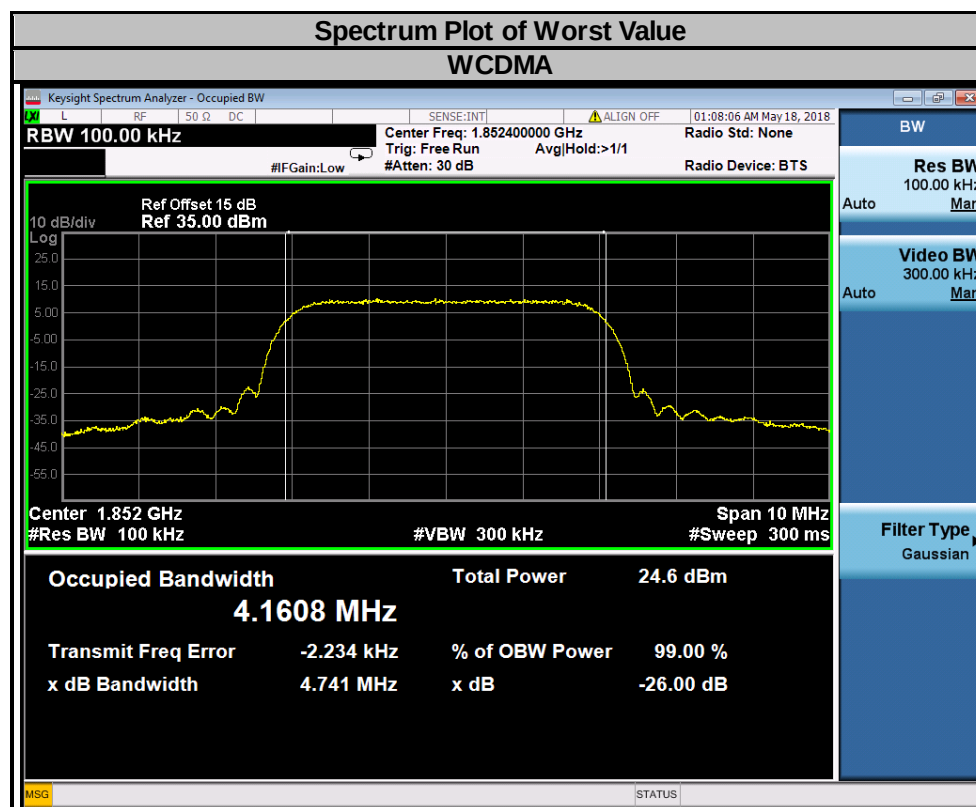
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.3.2 Test Setup

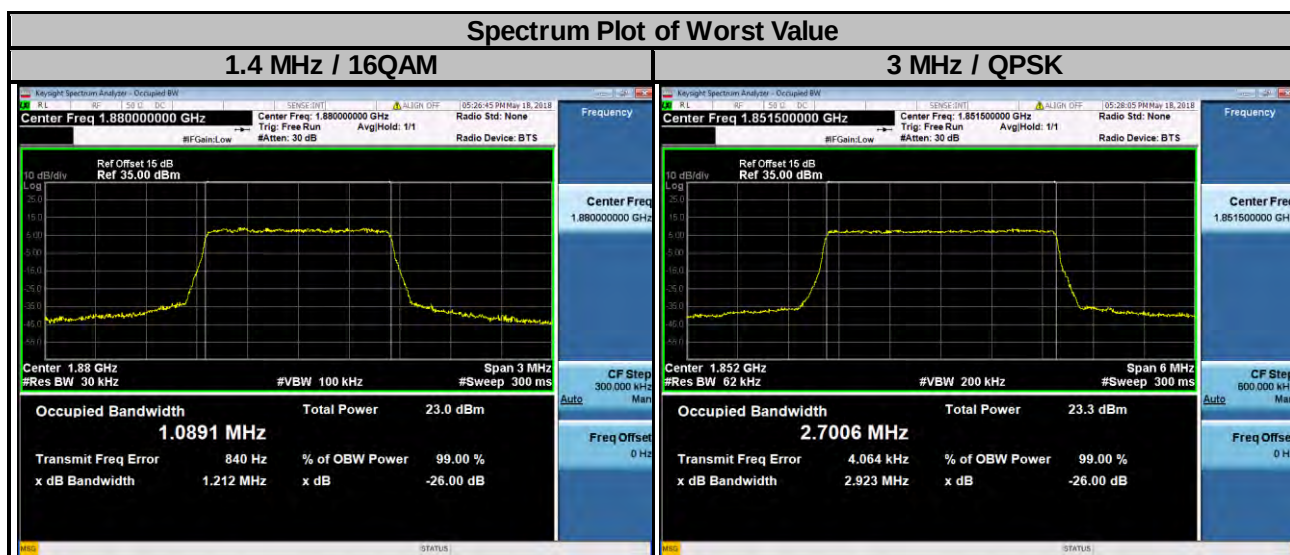


4.3.3 Test Result

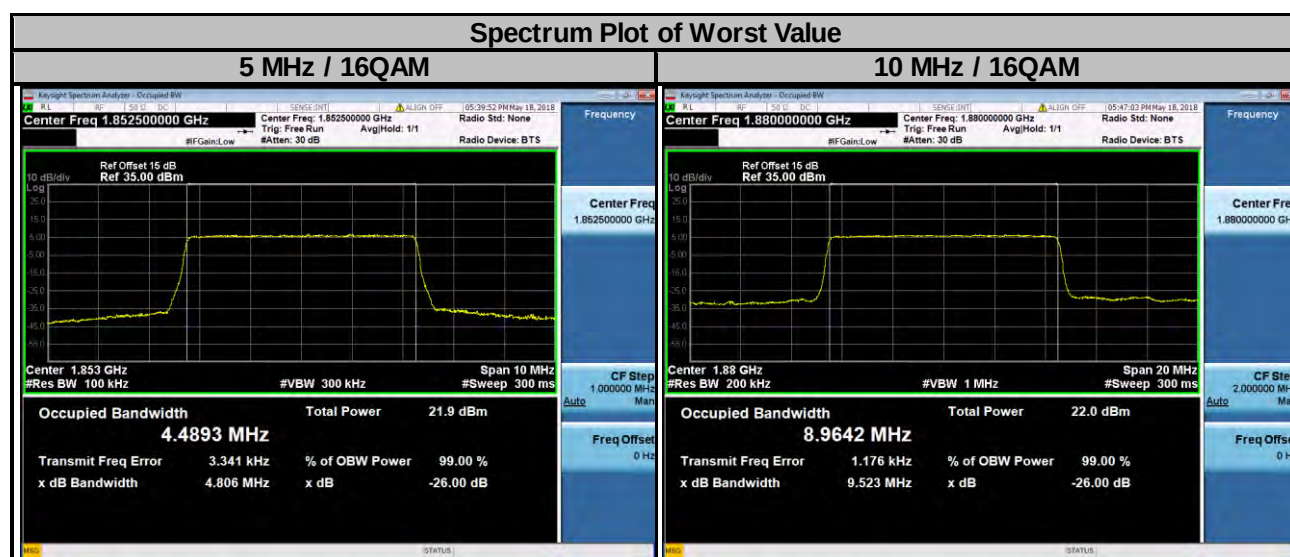
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
		WCDMA
9262	1852.4	4.1608
9400	1880.0	4.1580
9538	1907.6	4.1603



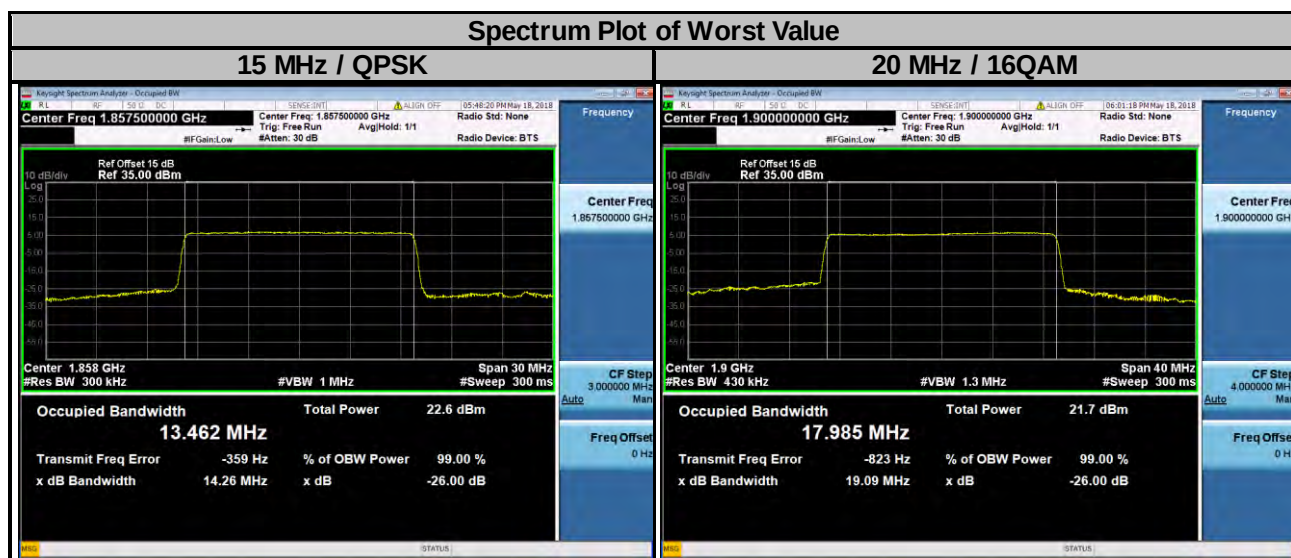
LTE Band 2							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	1.0864	1.0884	18615	1851.5	2.7006	2.6952
18900	1880.0	1.0867	1.0891	18900	1880.0	2.6995	2.6956
19193	1909.3	1.0865	1.0882	19185	1908.5	2.6998	2.6959



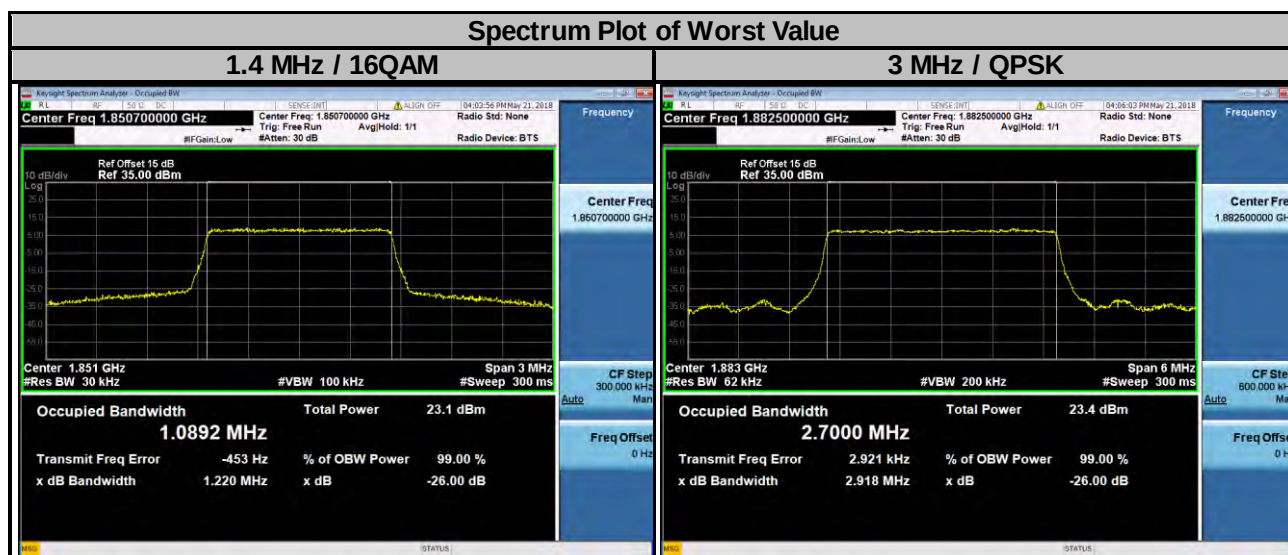
LTE Band 2							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.4865	4.4893	18650	1855.0	8.9605	8.9607
18900	1880.0	4.4882	4.4859	18900	1880.0	8.9623	8.9642
19175	1907.5	4.4862	4.4849	19150	1905.0	8.9532	8.9543



LTE Band 2							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.462	13.451	18700	1860.0	17.954	17.971
18900	1880.0	13.458	13.443	18900	1880.0	17.928	17.936
19125	1902.5	13.461	13.447	19100	1900.0	17.972	17.985



LTE Band 25							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	1.0878	1.0892	26055	1851.5	2.6991	2.6980
26365	1882.5	1.0862	1.0886	26365	1882.5	2.7000	2.6952
26683	1914.3	1.0873	1.0883	26675	1913.5	2.6998	2.6975

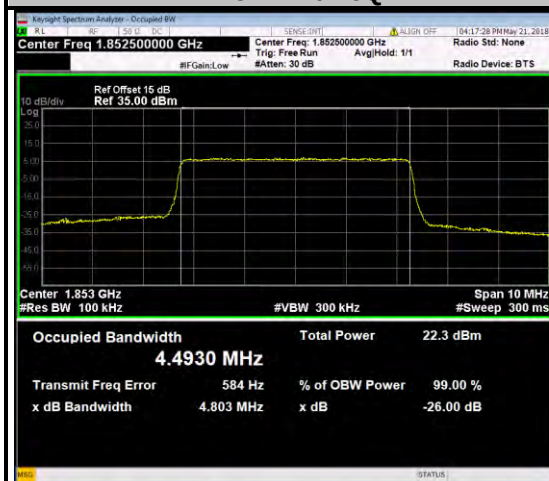


LTE Band 25

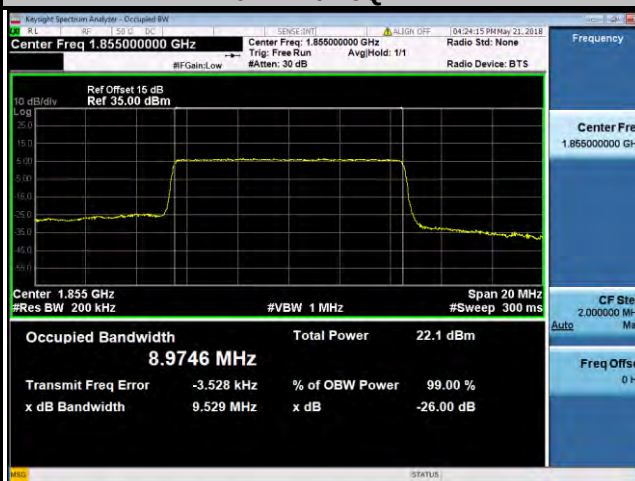
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.4887	4.4930	26090	1855.0	8.9691	8.9746
26365	1882.5	4.4872	4.8030	26365	1882.5	8.9631	8.9618
26665	1912.5	4.4909	4.4916	26640	1910.0	8.9643	8.9670

Spectrum Plot of Worst Value

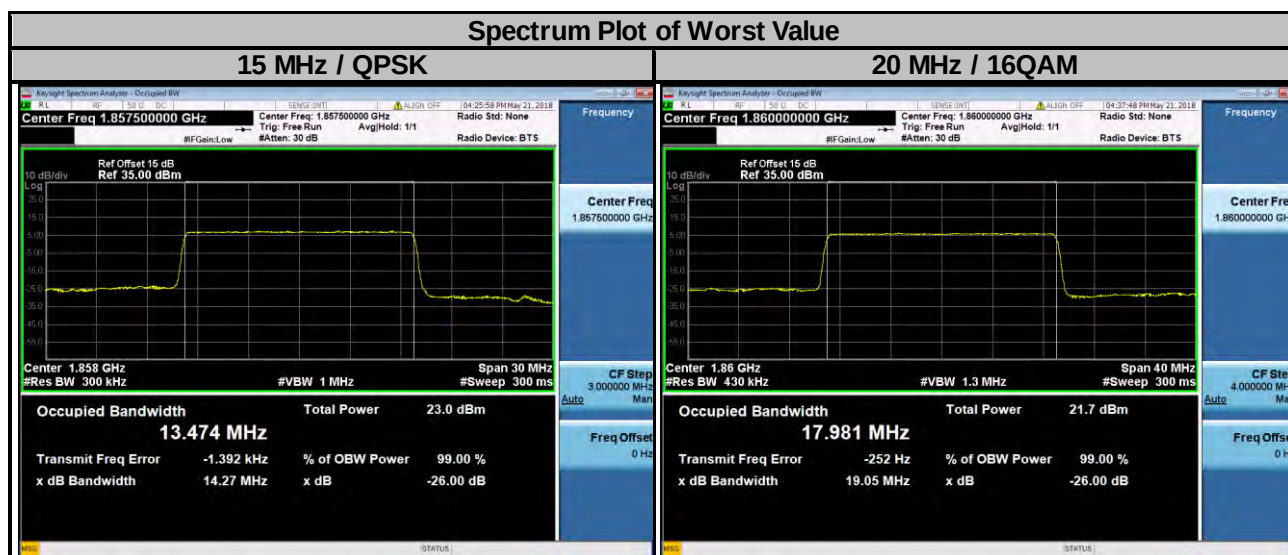
5 MHz / 16QAM



10 MHz / 16QAM



LTE BAND 25							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	13.474	13.464	26140	1860.0	17.960	17.981
26365	1882.5	13.470	13.459	26365	1882.5	17.946	17.968
26615	1907.5	13.452	13.436	26590	1905.0	17.930	17.945

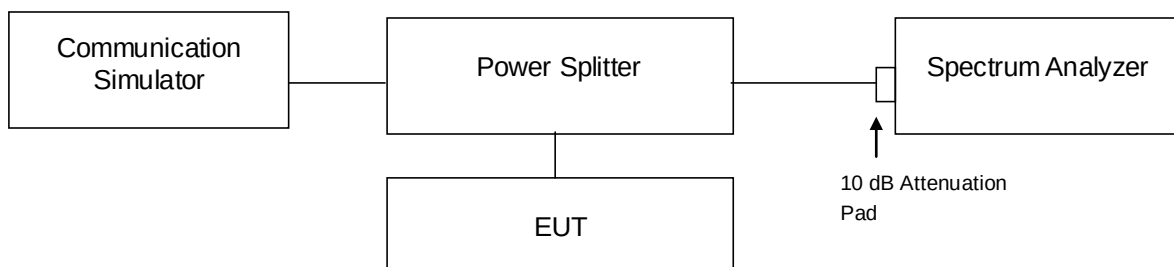


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

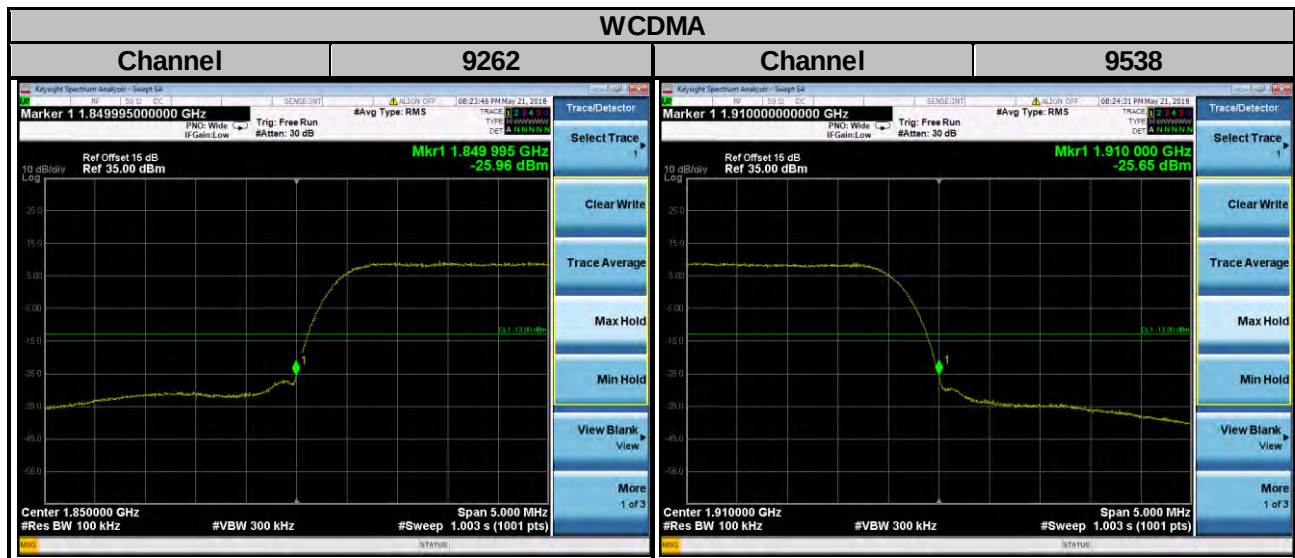
4.4.2 Test Setup

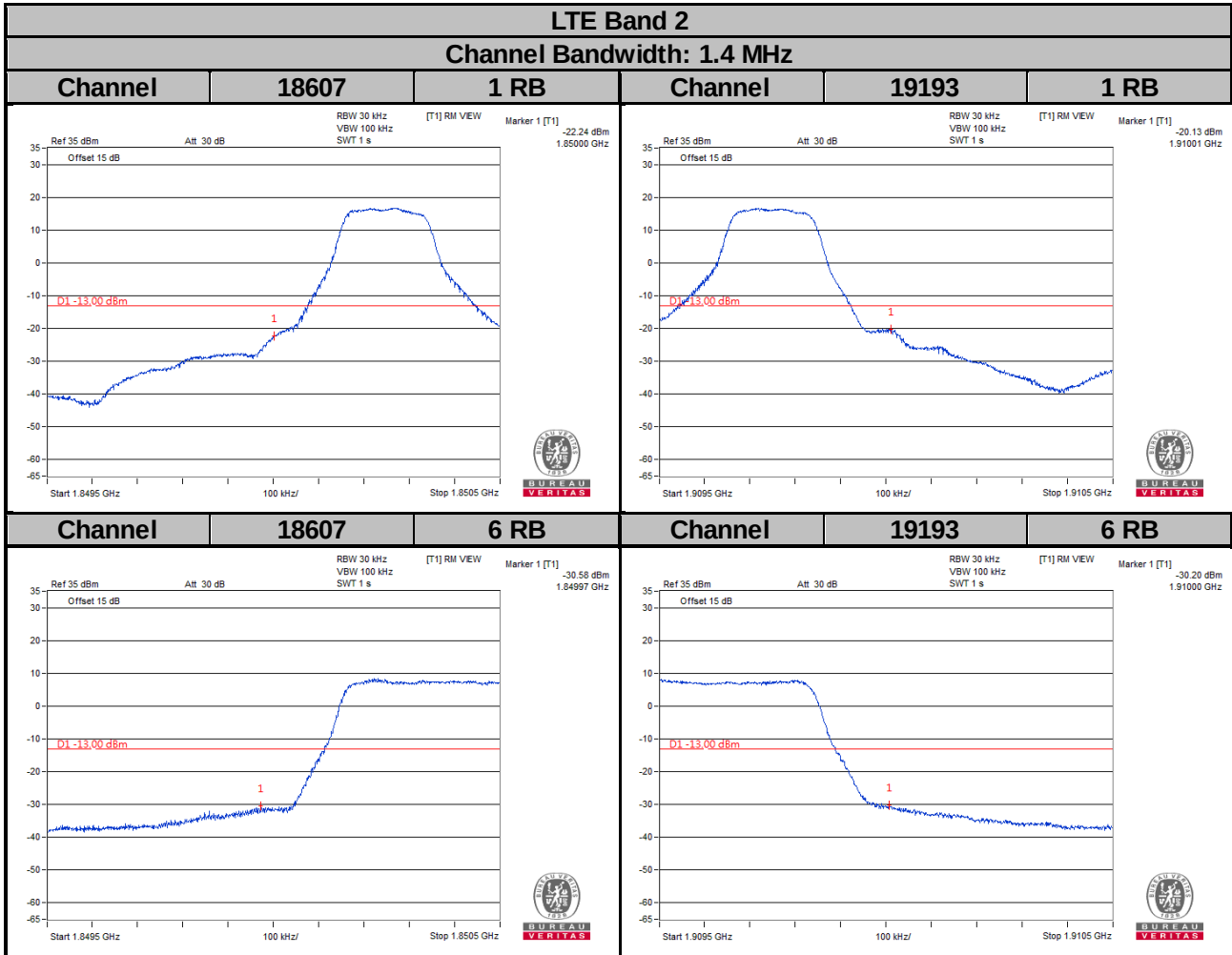


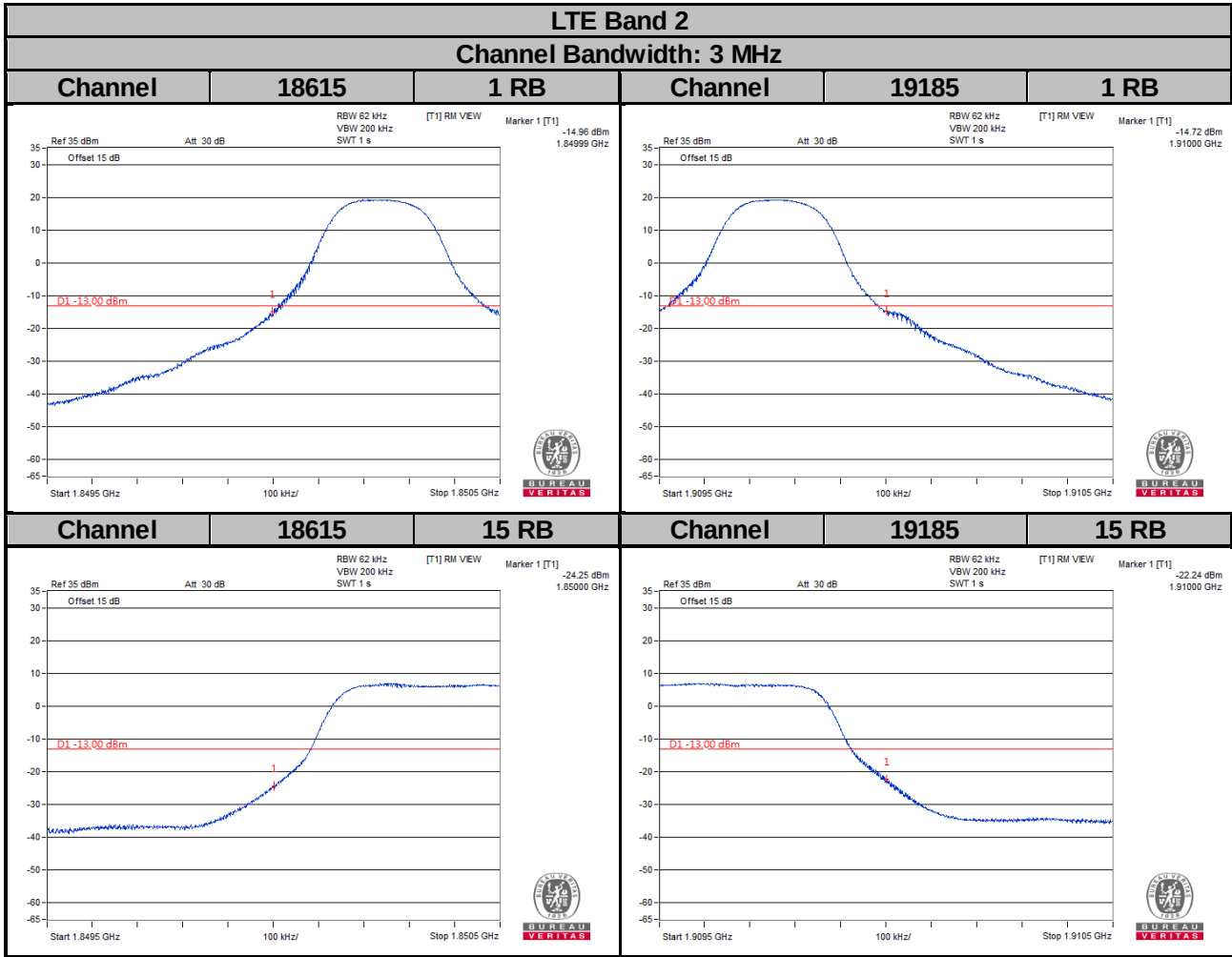
4.4.3 Test Procedures

- 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 30 kHz and VB of the spectrum is 100 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 62 kHz and VB of the spectrum is 200 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 100 kHz and VB of the spectrum is 300 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 200 kHz and VB of the spectrum is 1 MHz (LTE Bandwidth 10 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 300 kHz and VB of the spectrum is 1 MHz (LTE Bandwidth 15 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 300 kHz and VB of the spectrum is 1 MHz (LTE Bandwidth 20 MHz).
- Record the max trace plot into the test report.

4.4.4 Test Results

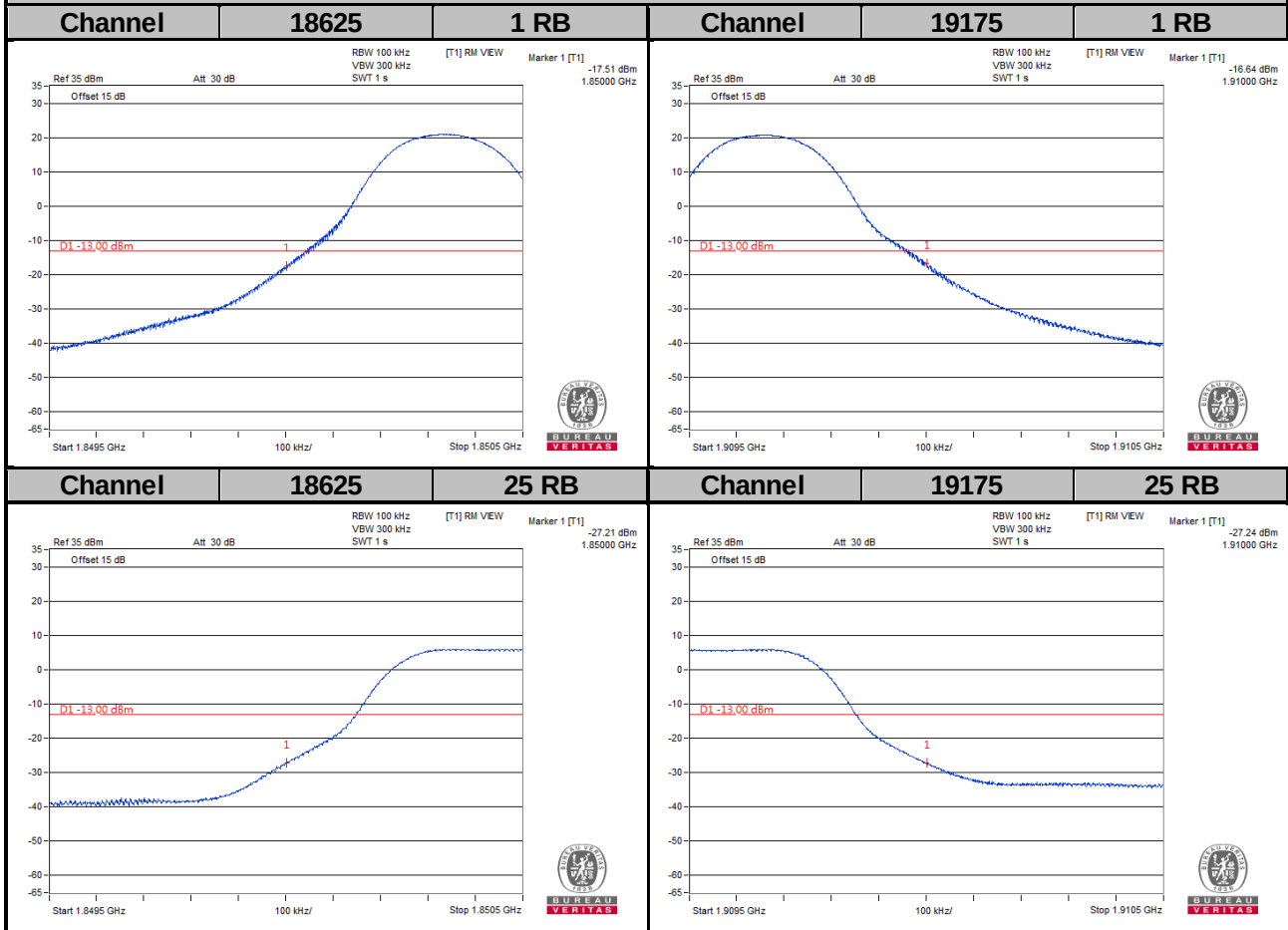


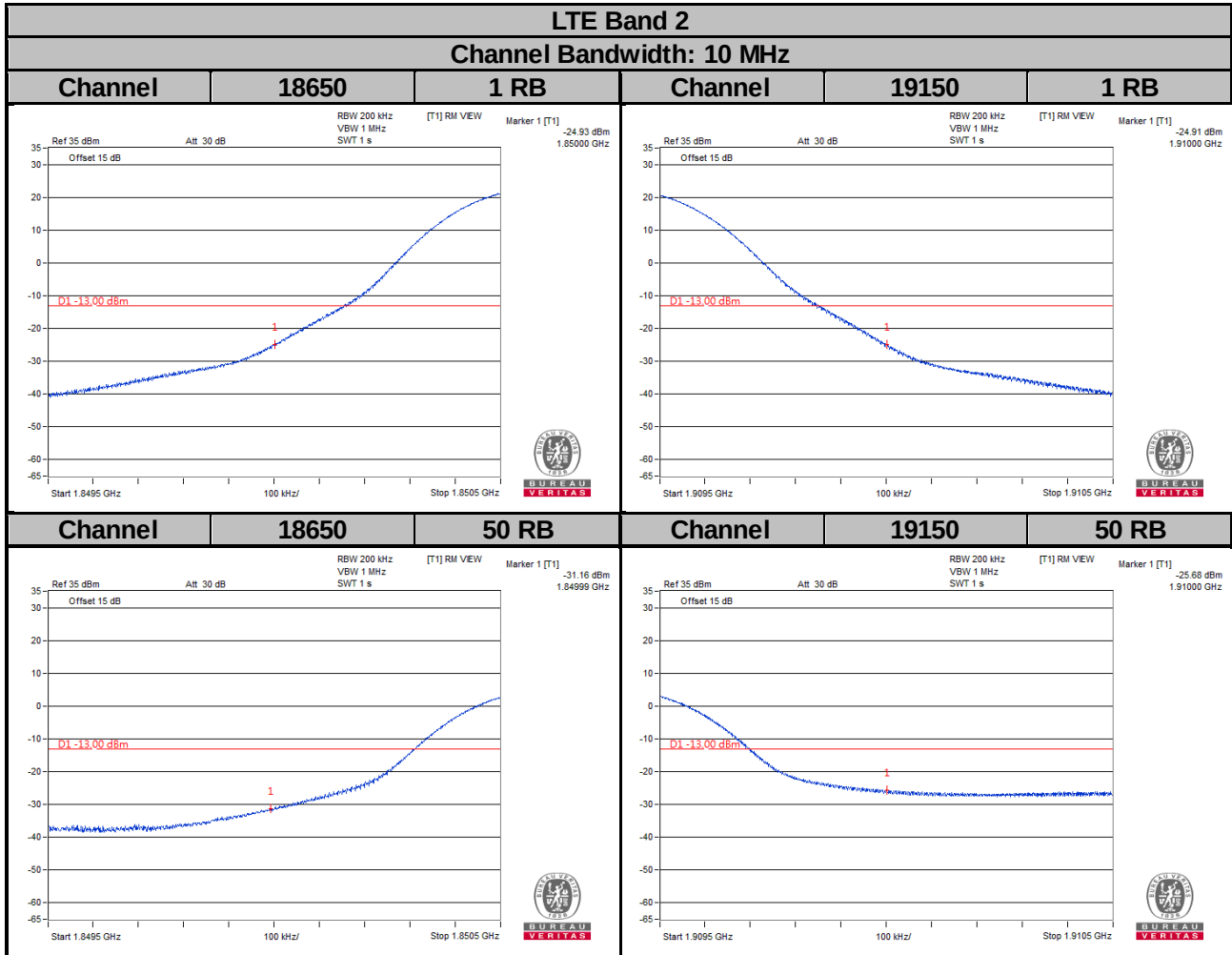


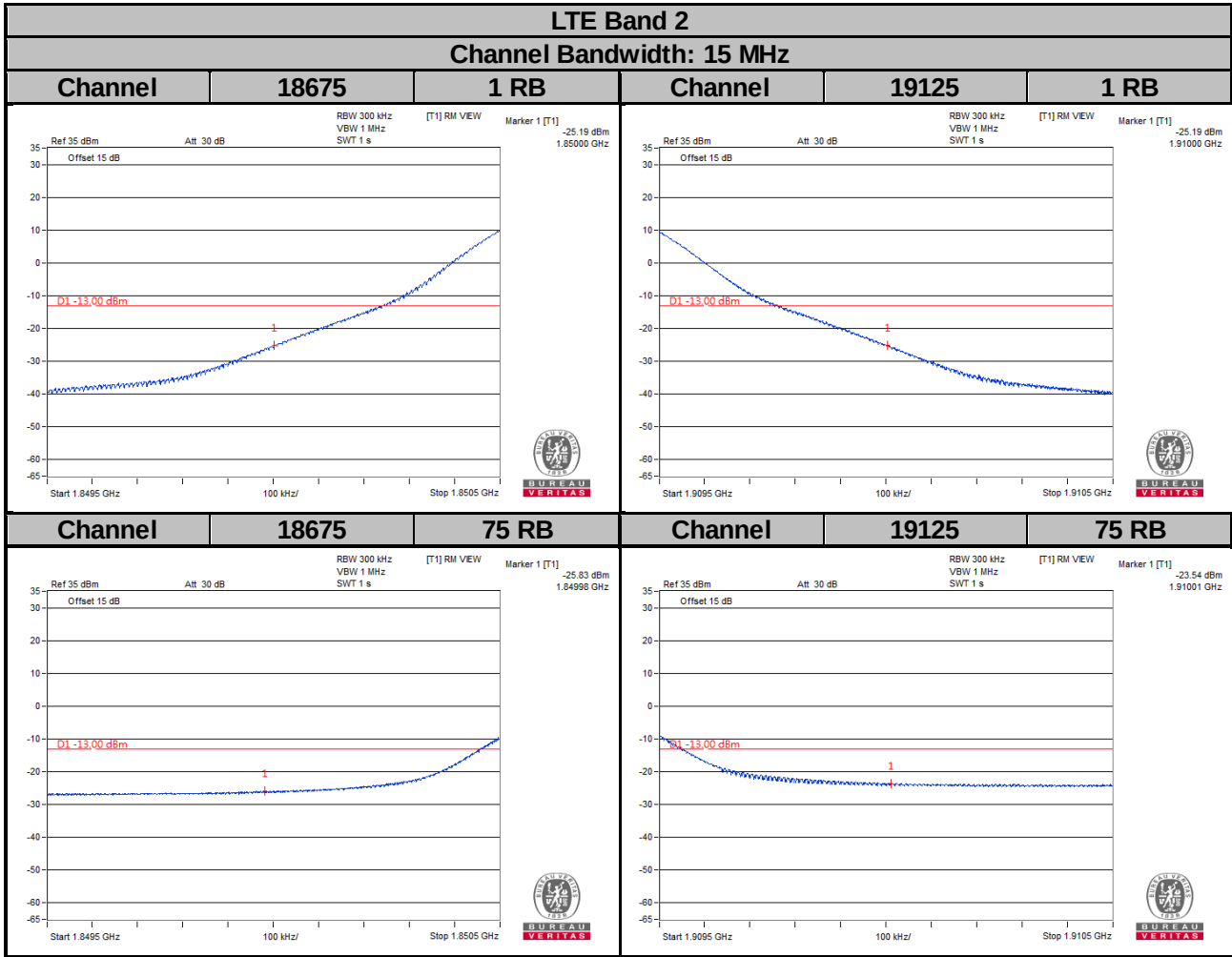


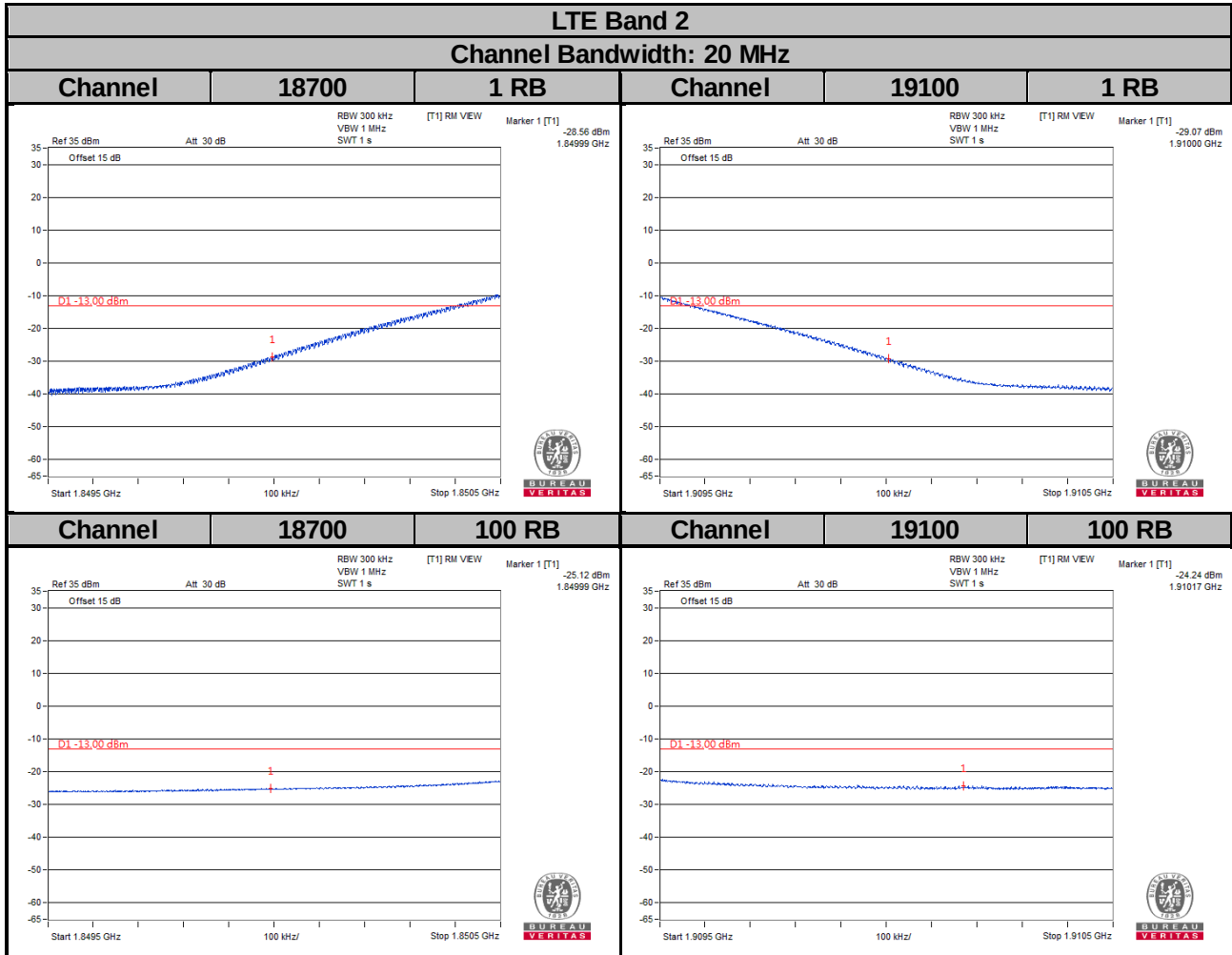
LTE Band 2

Channel Bandwidth: 5 MHz



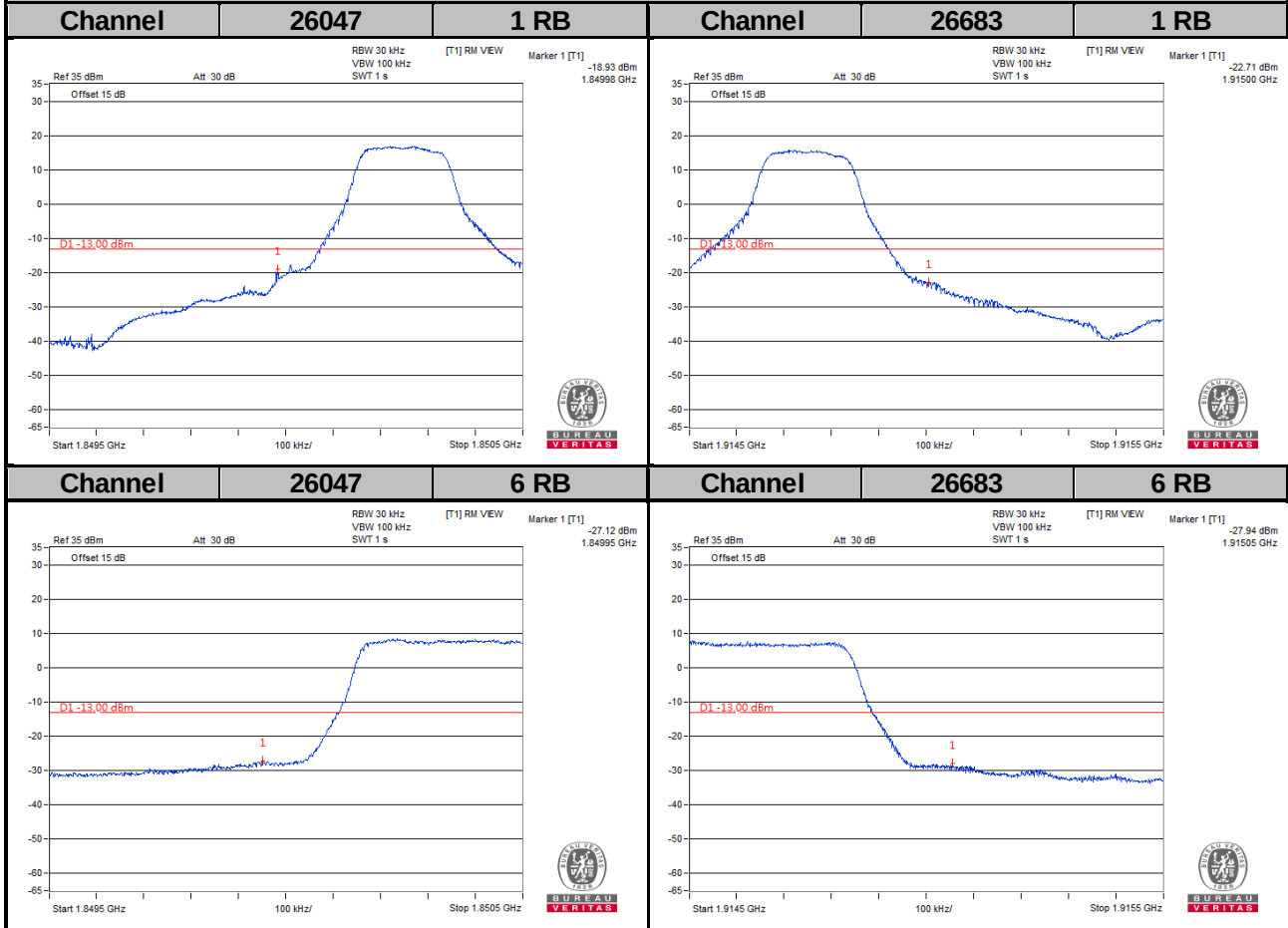






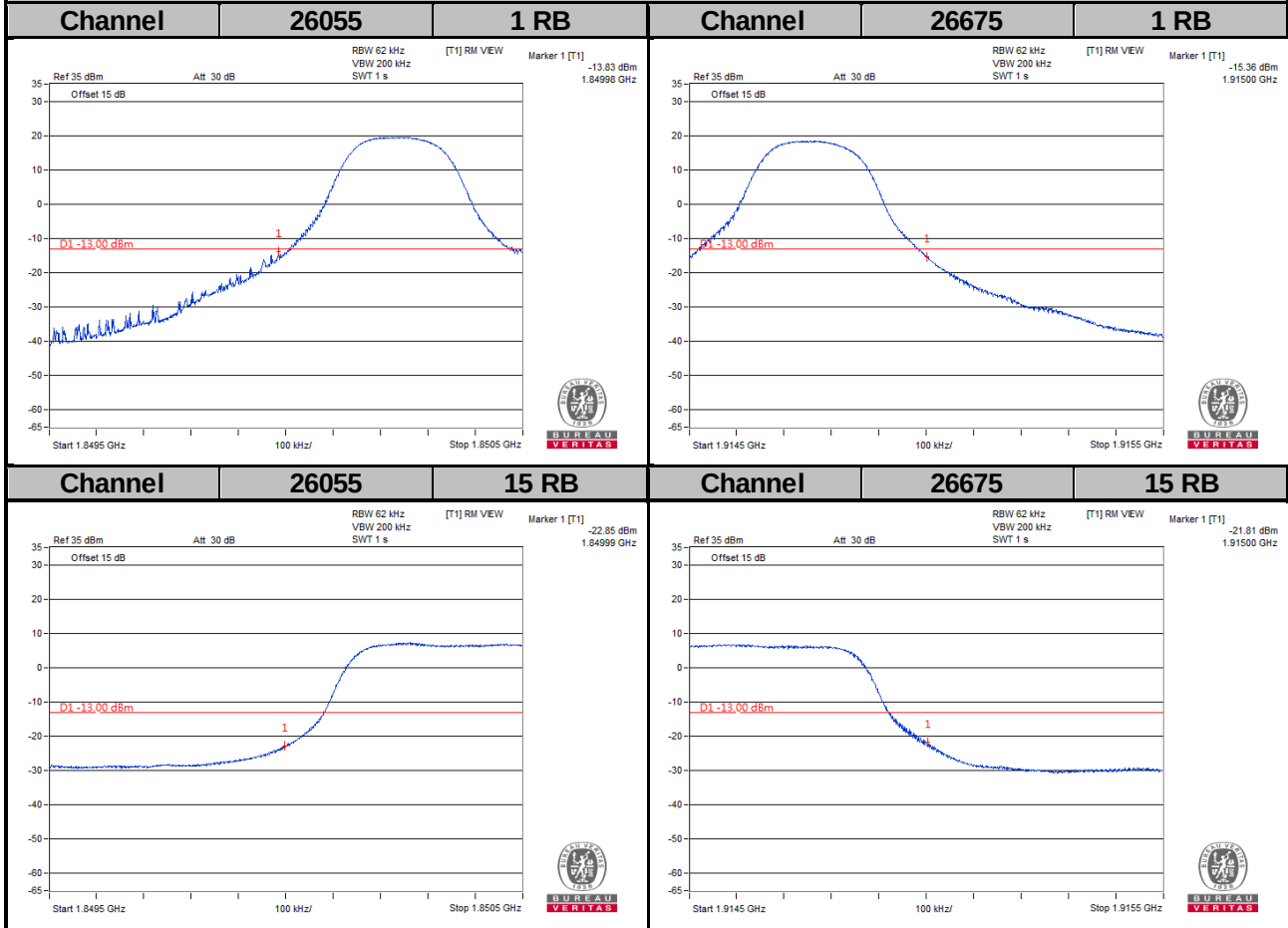
LTE Band 25

Channel Bandwidth: 1.4 MHz



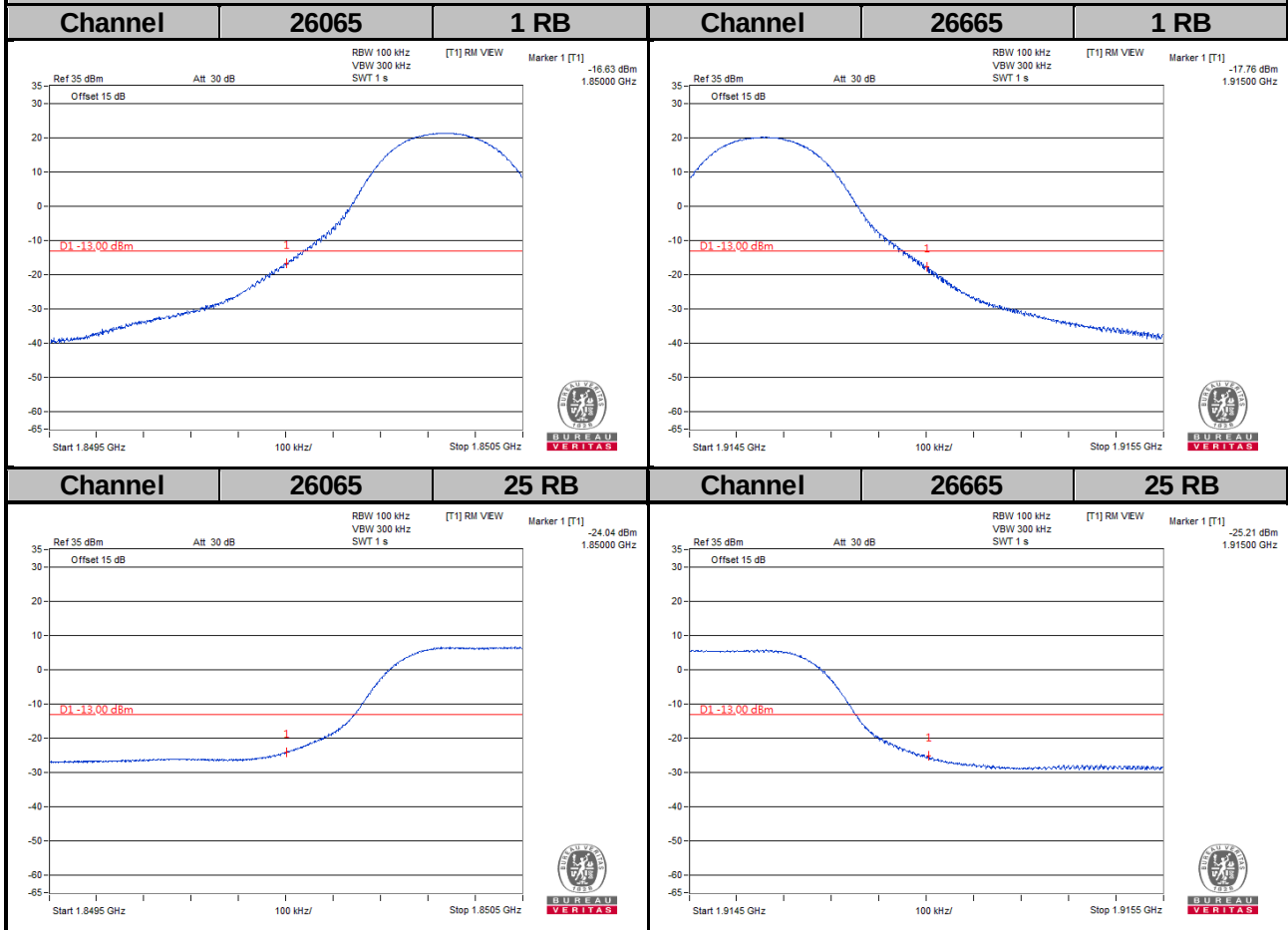
LTE Band 25

Channel Bandwidth: 3 MHz



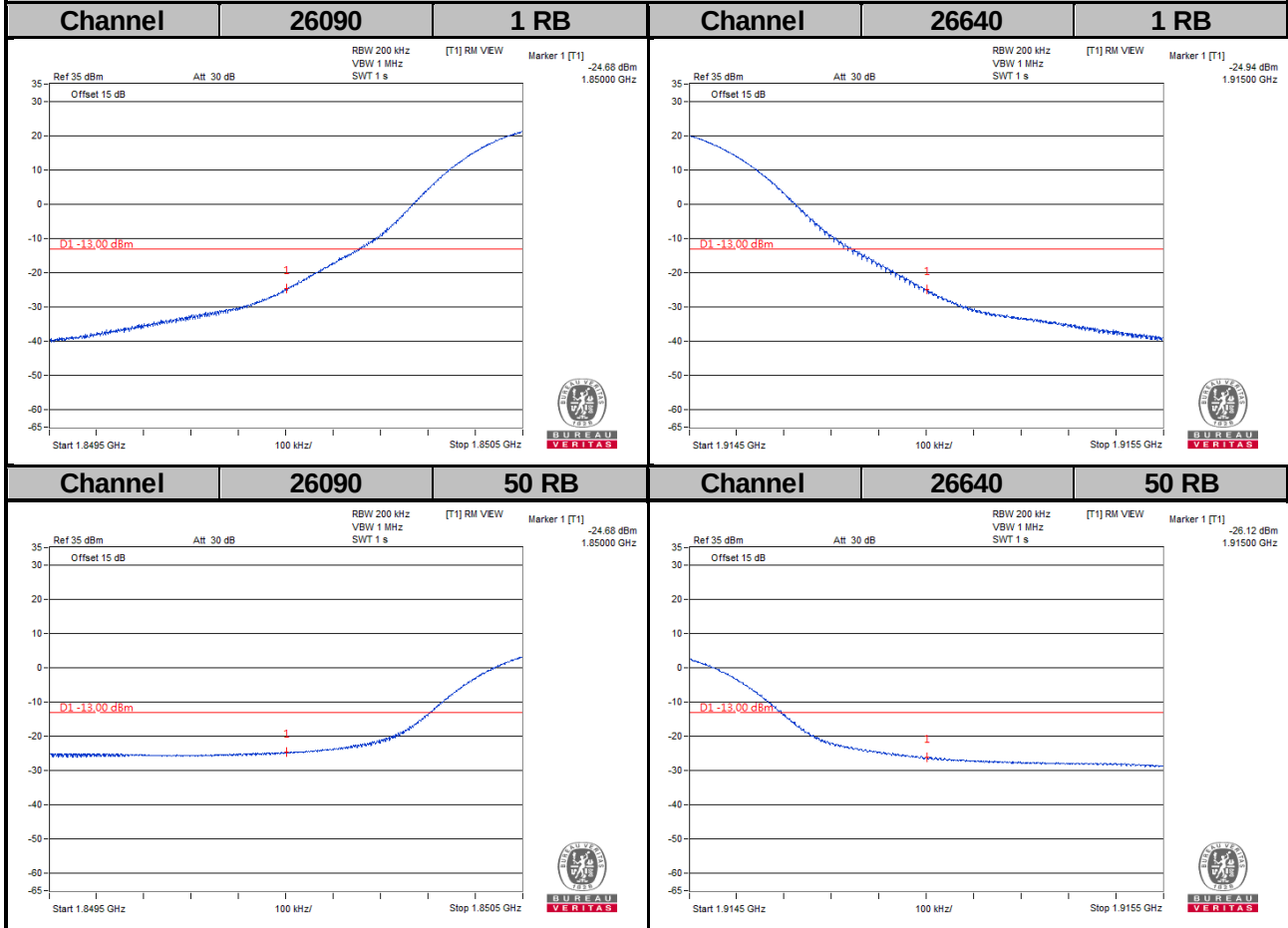
LTE Band 25

Channel Bandwidth: 5 MHz



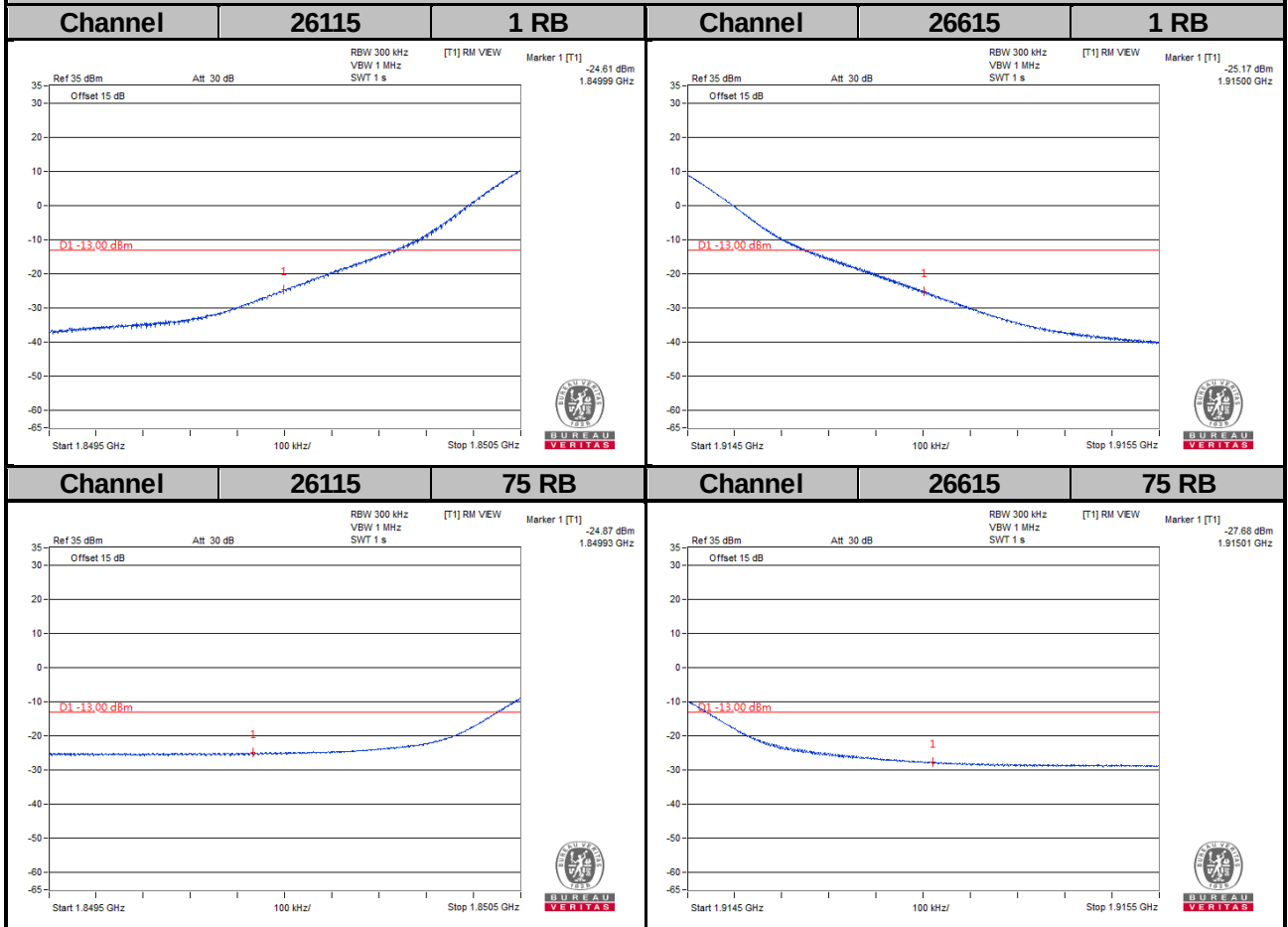
LTE Band 25

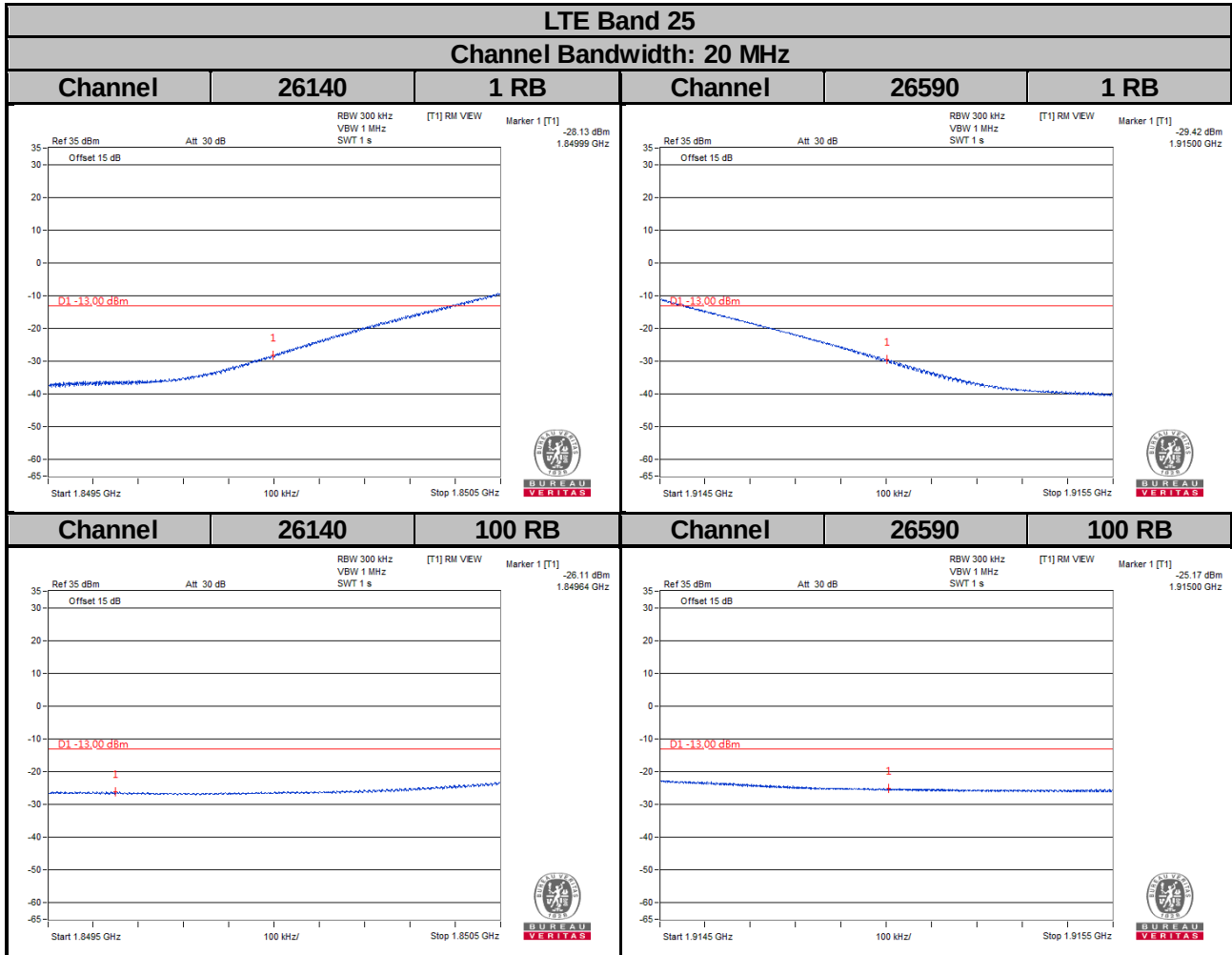
Channel Bandwidth: 10 MHz



LTE Band 25

Channel Bandwidth: 15 MHz



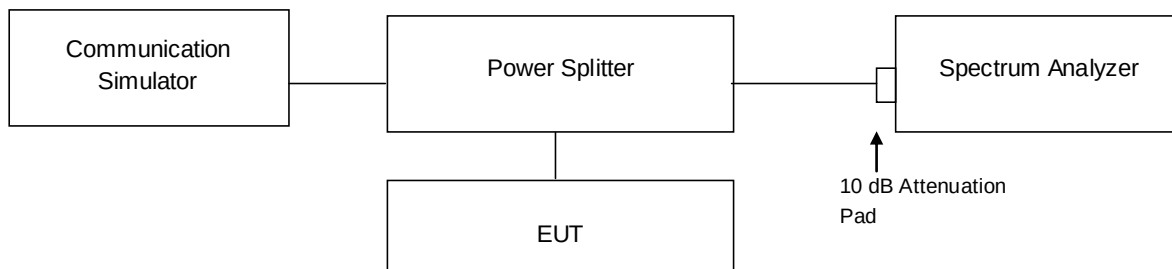


4.5 Peak to Average Ratio

4.5.1 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.

4.5.2 Test Setup

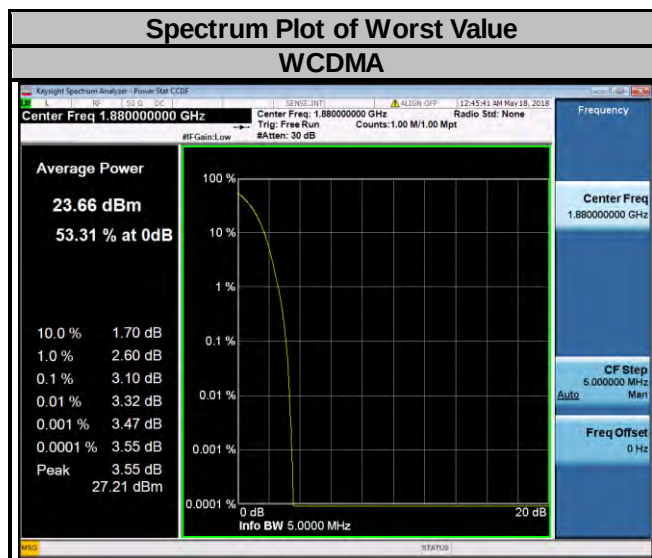


4.5.3 Test Procedures

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 %.

4.5.4 Test Results

Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		WCDMA
9262	1852.4	3.05
9400	1880.0	3.10
9538	1907.6	2.96

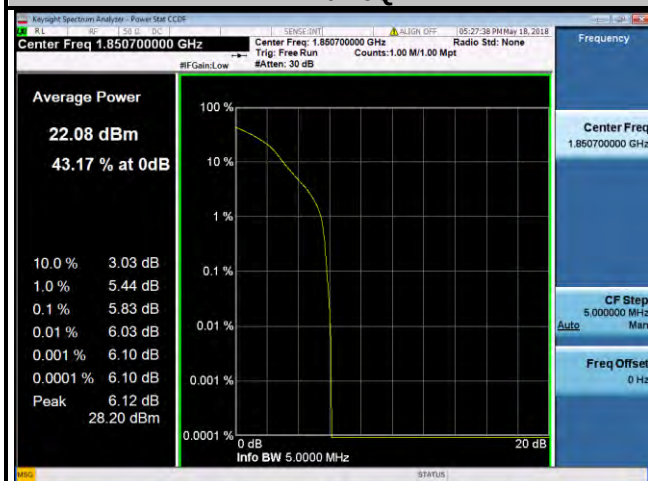


LTE Band 2

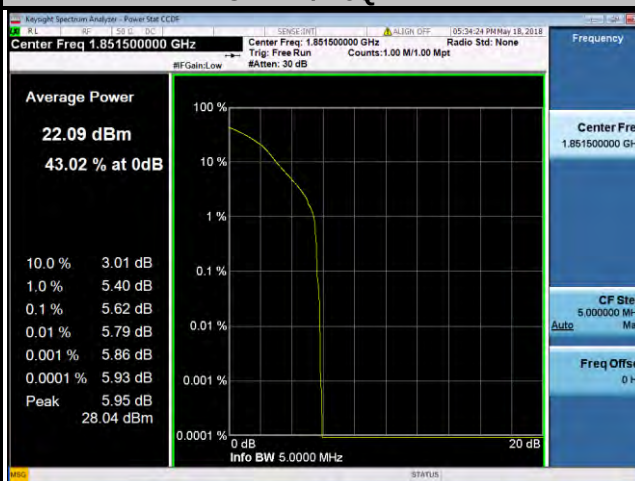
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	4.97	5.83	18615	1851.5	4.80	5.62
18900	1880.0	4.85	5.63	18900	1880.0	4.71	5.48
19193	1909.3	4.77	5.52	19185	1908.5	4.64	5.34

Spectrum Plot of Worst Value

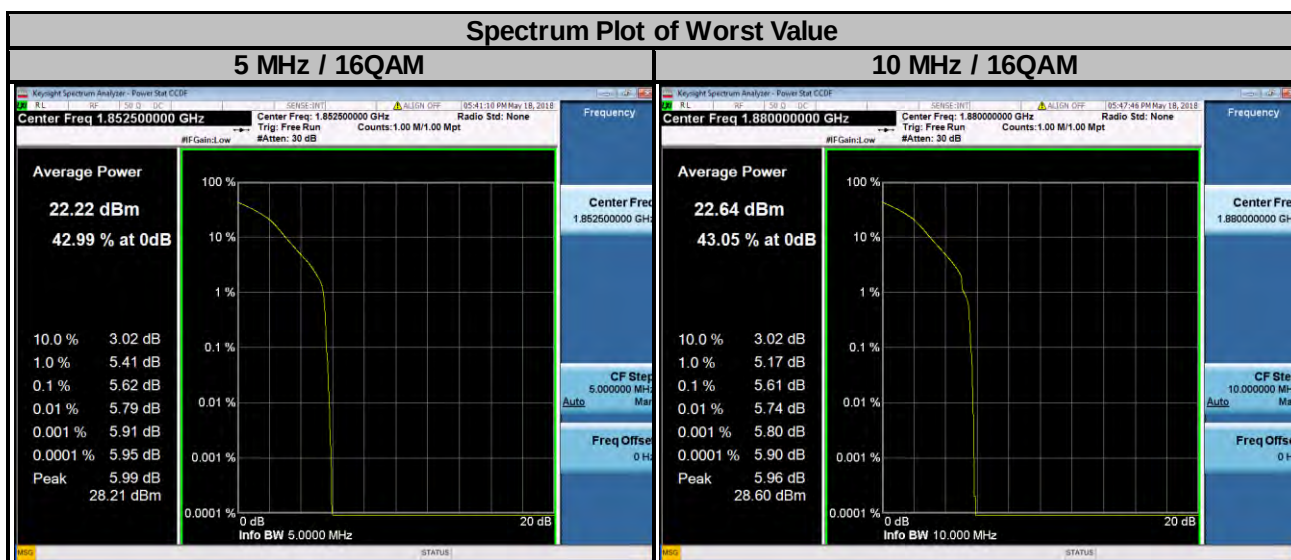
1.4 MHz / 16QAM



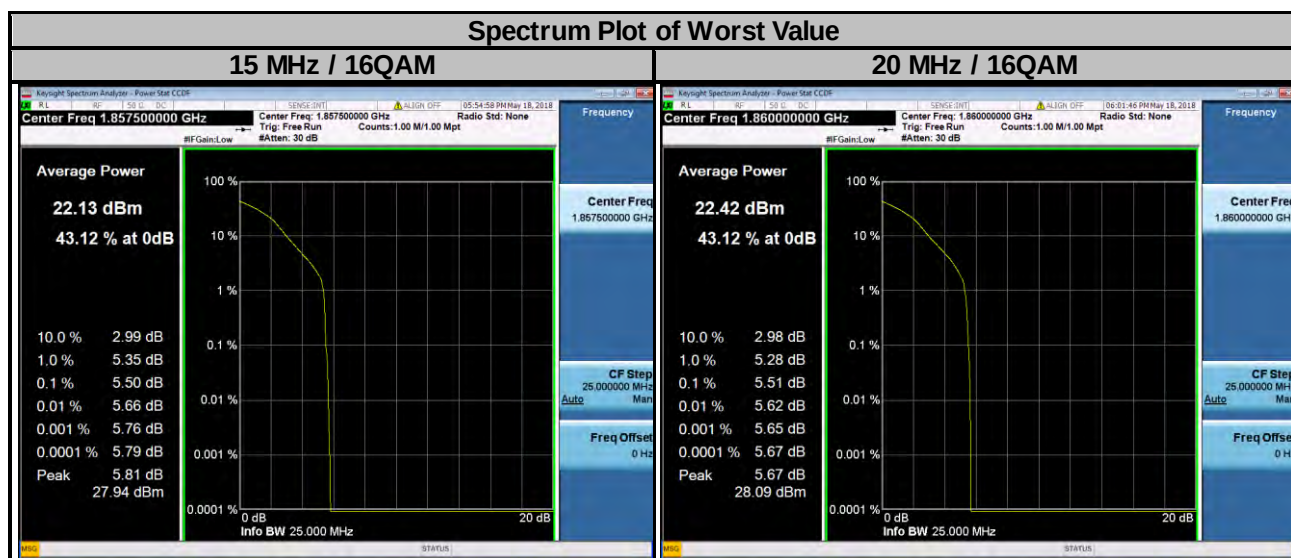
3 MHz / 16QAM



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	4.79	5.62	18650	1855.0	4.69	5.53
18900	1880.0	4.63	5.43	18900	1880.0	4.78	5.61
19175	1907.5	4.74	5.51	19150	1905.0	4.65	5.36



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	4.72	5.50	18700	1860.0	4.70	5.51
18900	1880.0	4.53	5.42	18900	1880.0	4.66	5.48
19125	1902.5	4.55	5.14	19100	1900.0	4.63	5.33

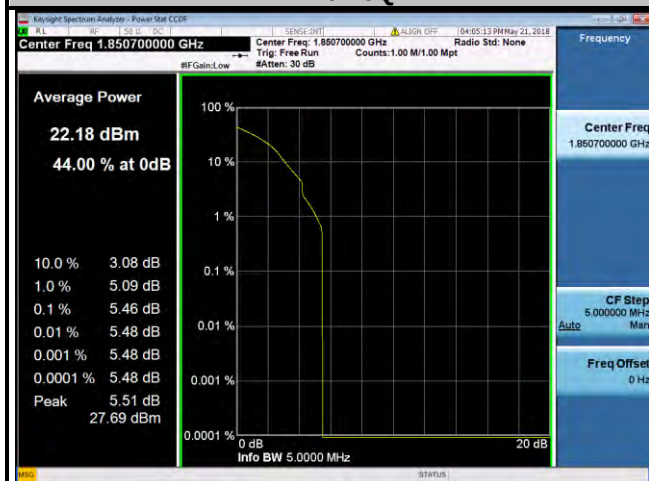


LTE Band 25

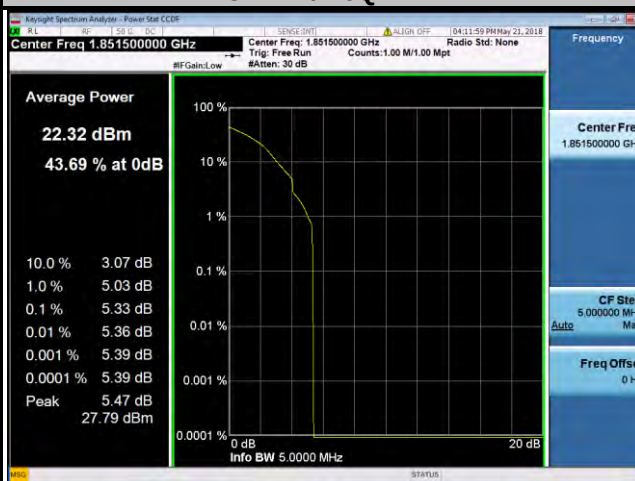
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	4.62	5.46	26055	1851.5	4.56	5.33
26365	1882.5	3.54	4.35	26365	1882.5	3.71	5.33
26683	1914.3	3.42	4.21	26675	1913.5	3.71	4.52

Spectrum Plot of Worst Value

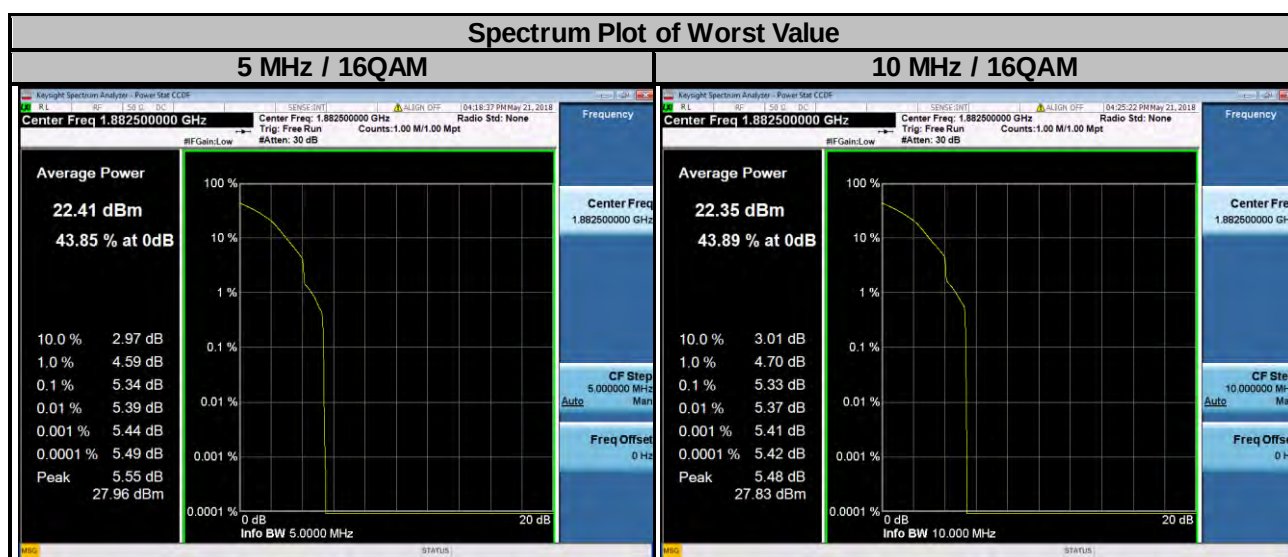
1.4 MHz / 16QAM



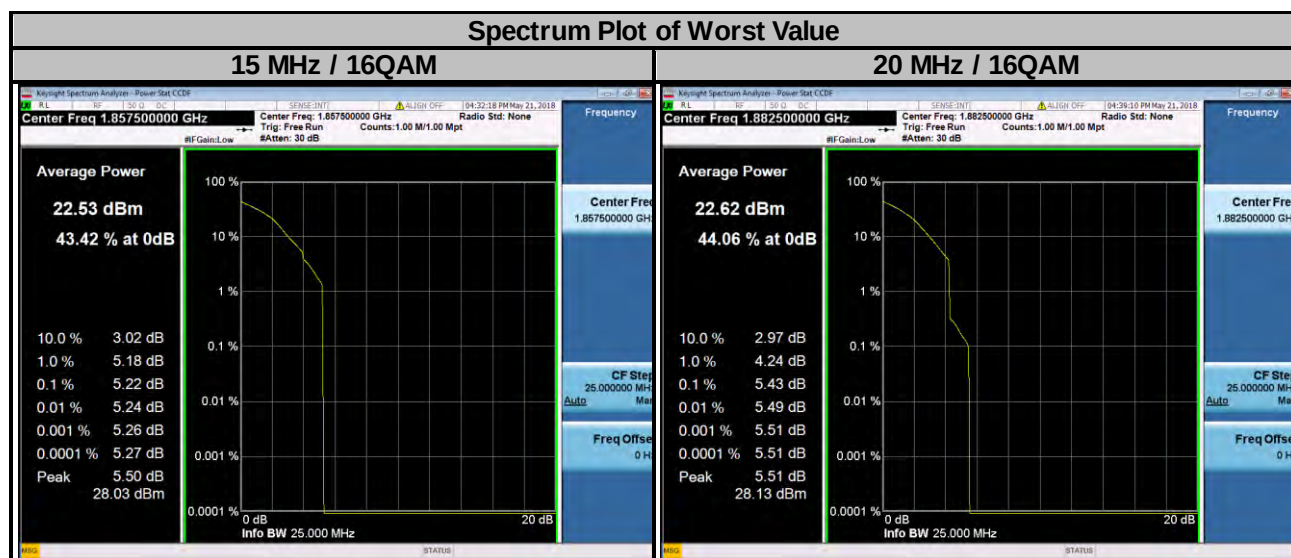
3 MHz / 16QAM



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	4.50	5.20	26090	1855.0	4.44	5.14
26365	1882.5	4.40	5.34	26365	1882.5	4.52	5.33
26665	1912.5	3.53	4.23	26640	1910.0	3.59	4.23



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	4.42	5.22	26140	1860.0	4.35	5.22
26365	1882.5	3.45	4.28	26365	1882.5	3.47	5.43
26615	1907.5	4.20	5.00	26590	1905.0	4.50	5.37

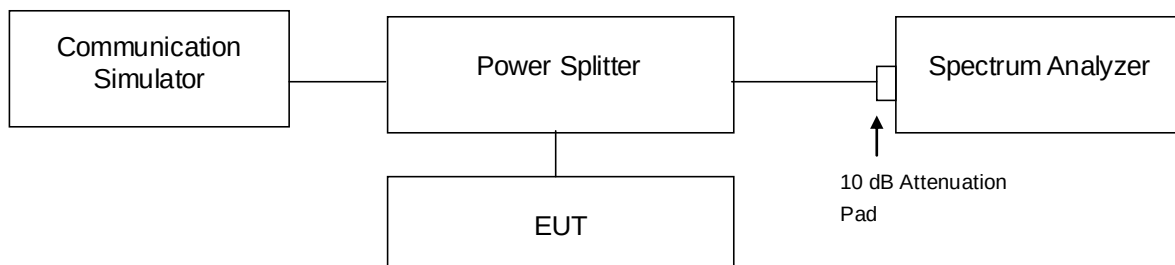


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

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

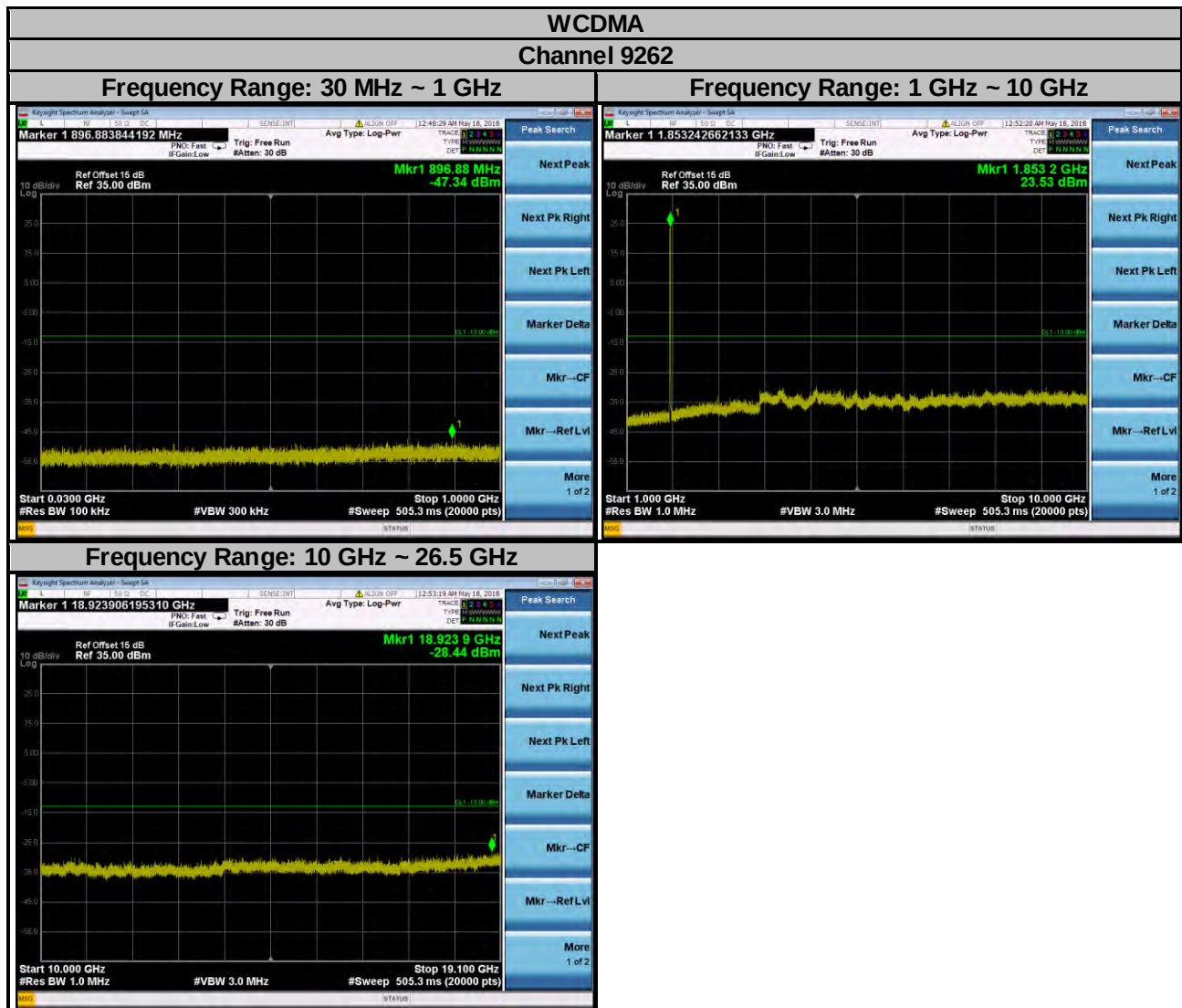
4.6.2 Test Setup



4.6.3 Test Procedure

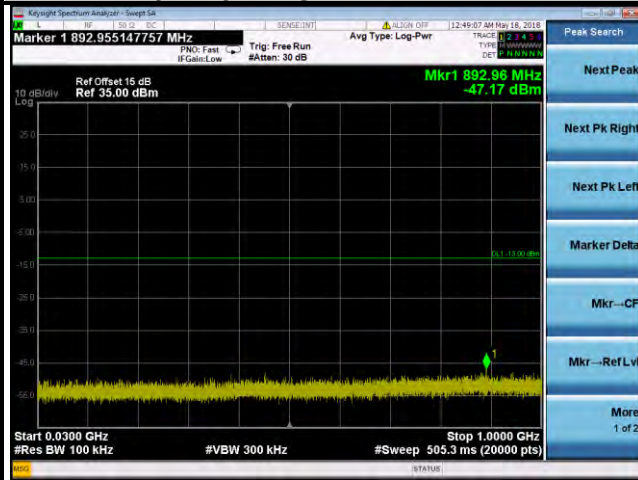
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 26.5 GHz. 20 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.

4.6.4 Test Results

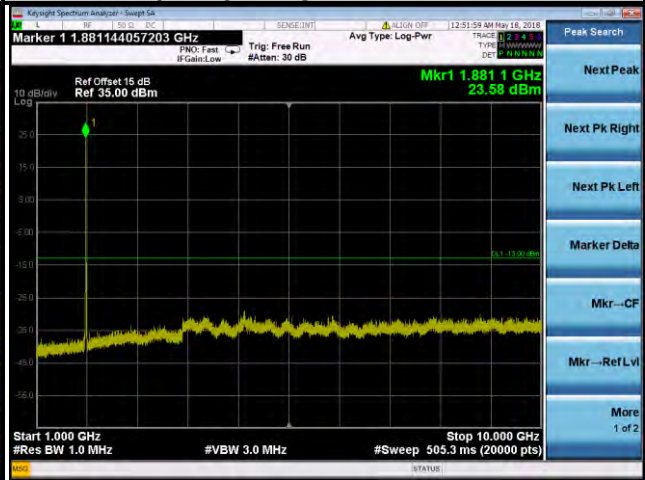


WCDMA Channel 9400

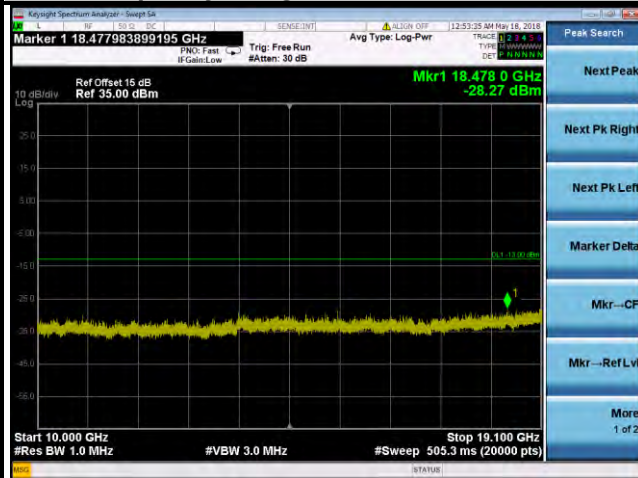
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

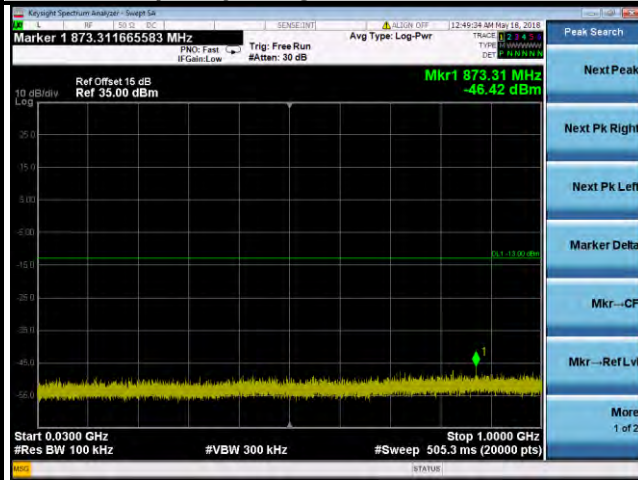


Frequency Range: 10 GHz ~ 26.5 GHz

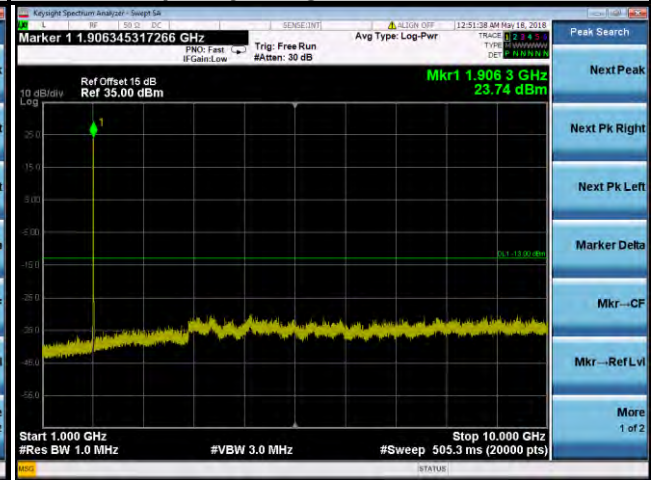


WCDMA Channel 9538

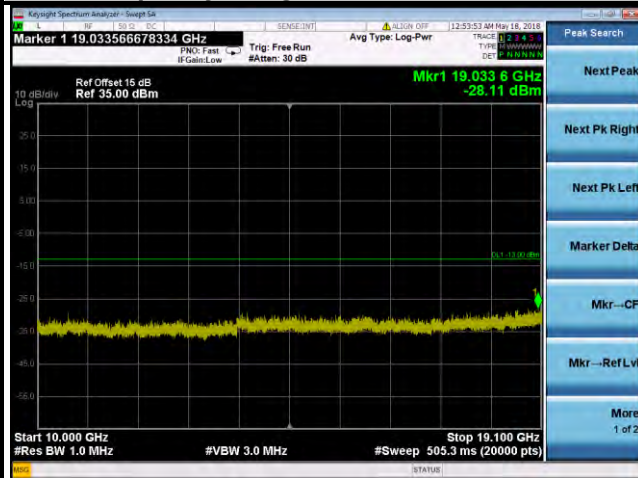
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 26.5 GHz

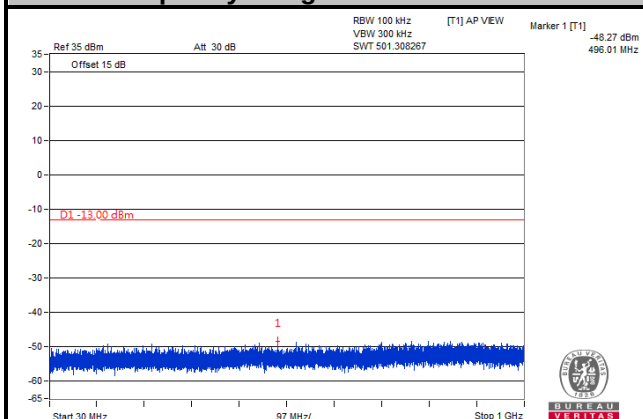


LTE Band 2

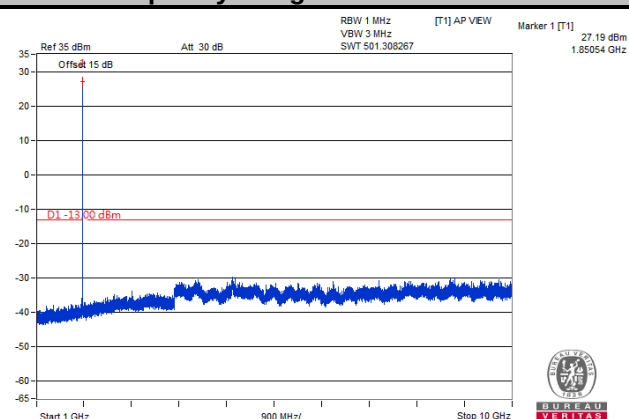
Channel Bandwidth: 1.4 MHz

Channel 18607

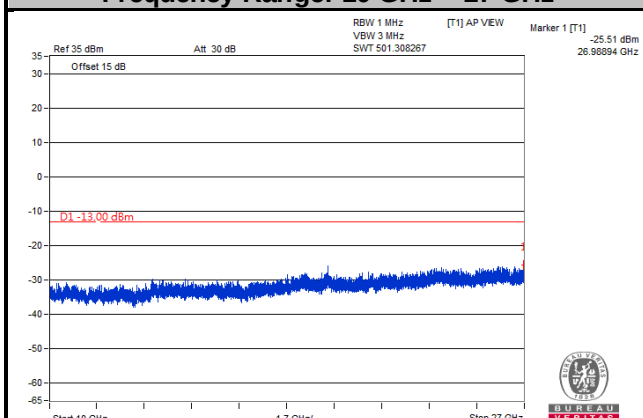
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

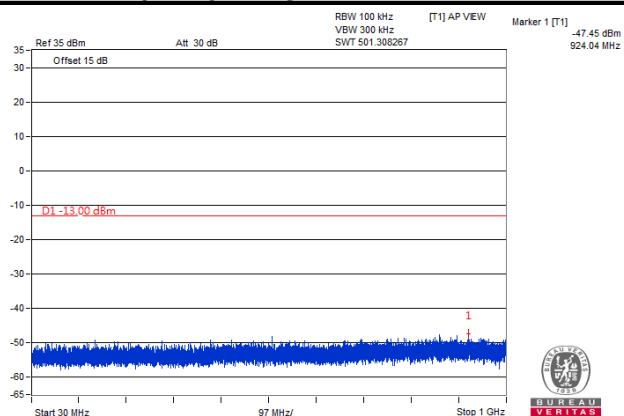


LTE Band 2

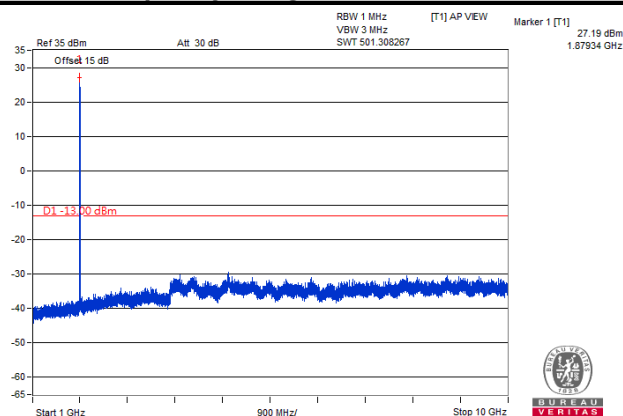
Channel Bandwidth: 1.4 MHz

Channel 18900

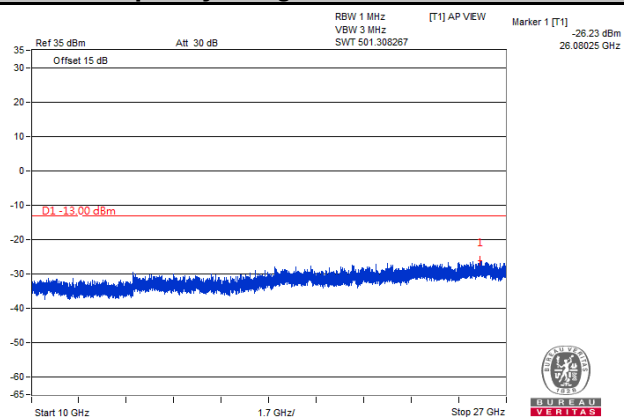
Frequency Range: 30 MHz ~ 1 GHz

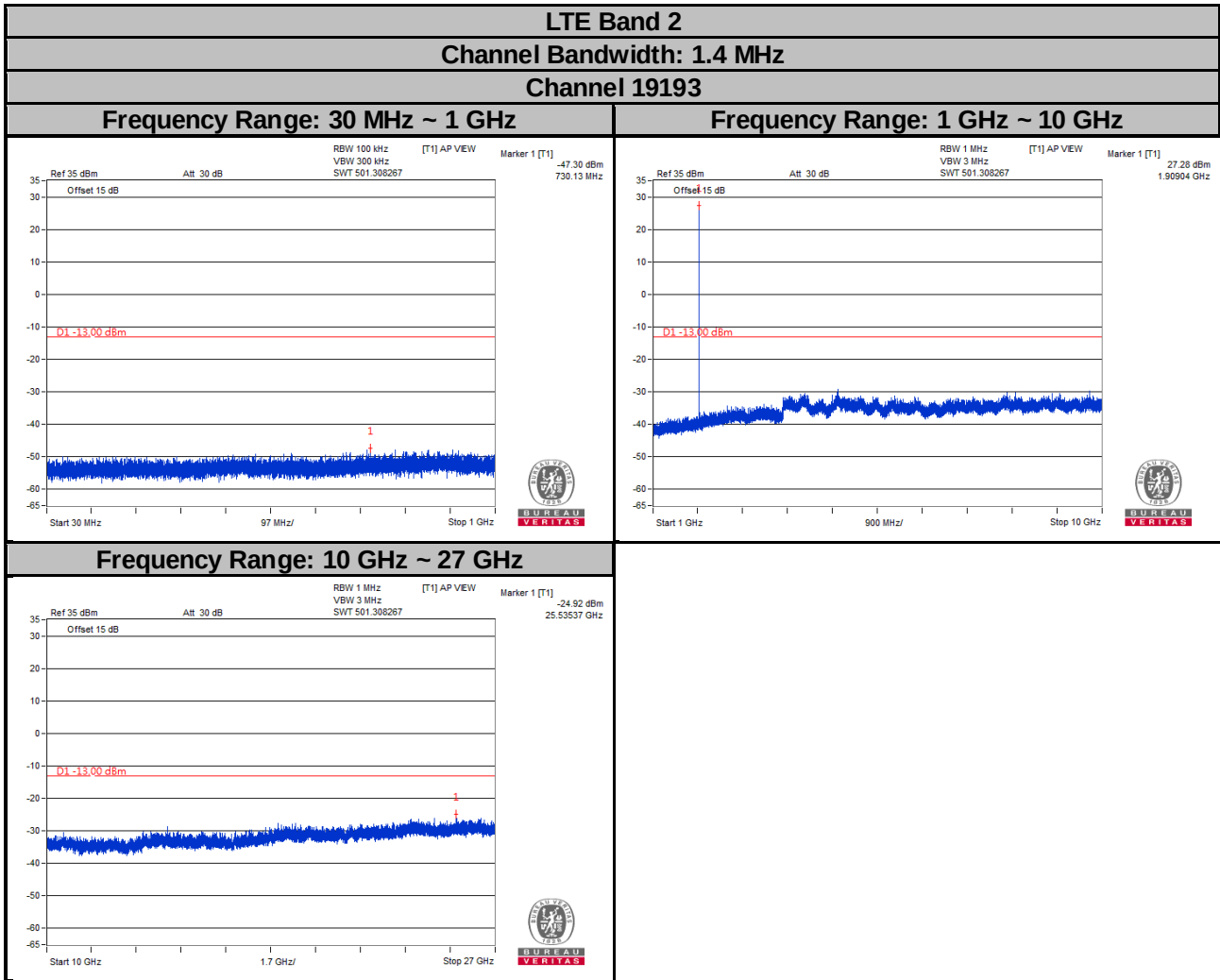


Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



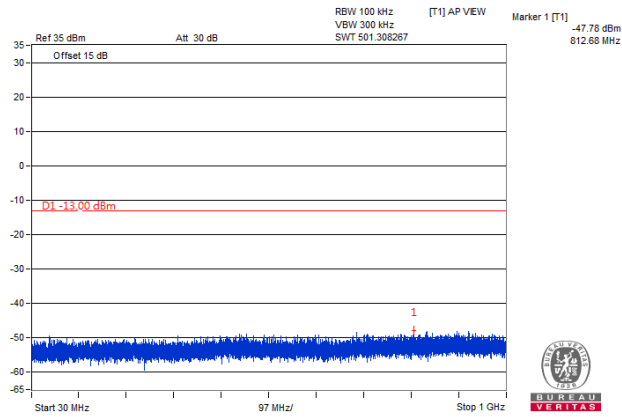


LTE Band 2

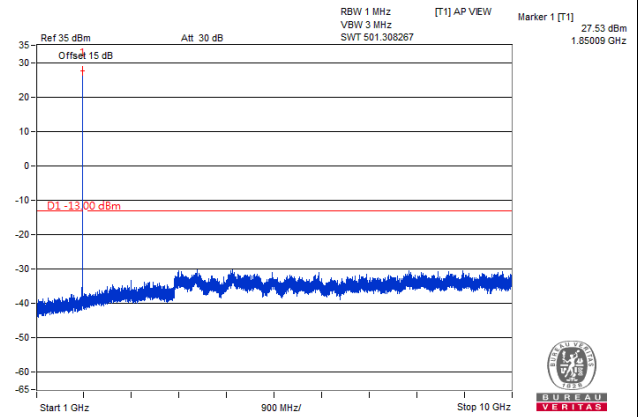
Channel Bandwidth: 3 MHz

Channel 18615

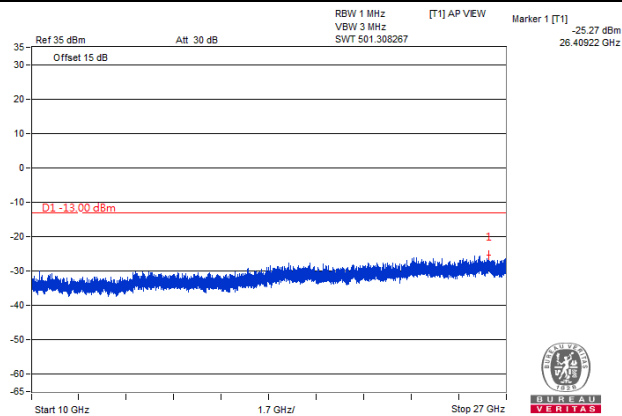
Frequency Range: 30 MHz ~ 1 GHz

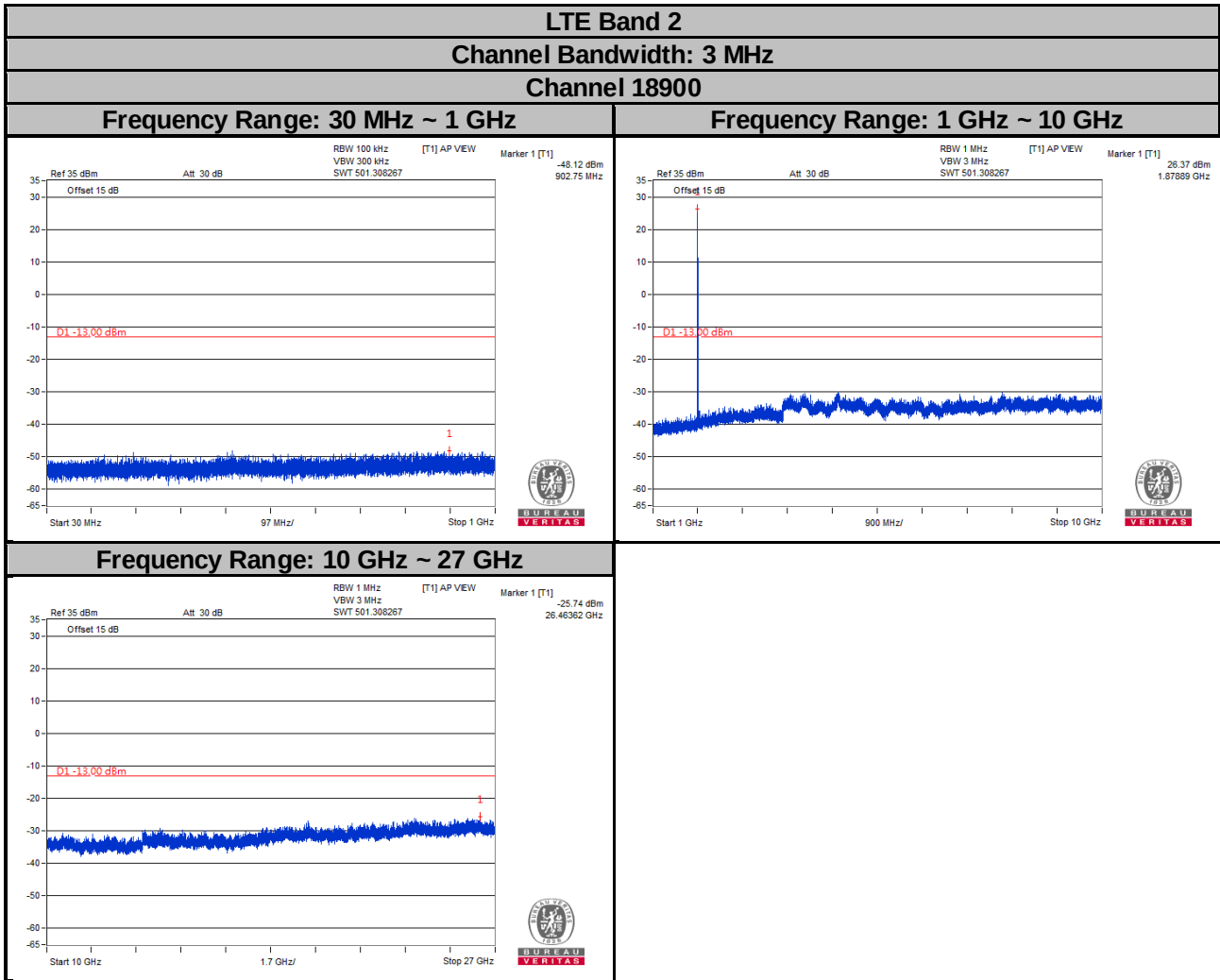


Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



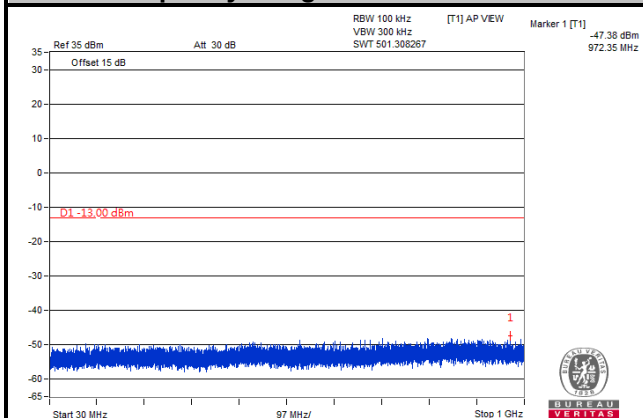


LTE Band 2

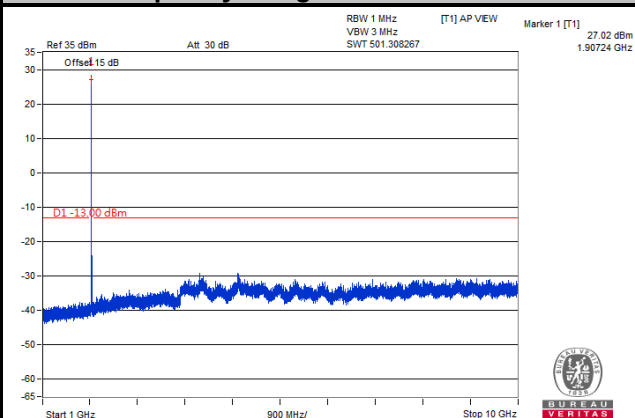
Channel Bandwidth: 3 MHz

Channel 19185

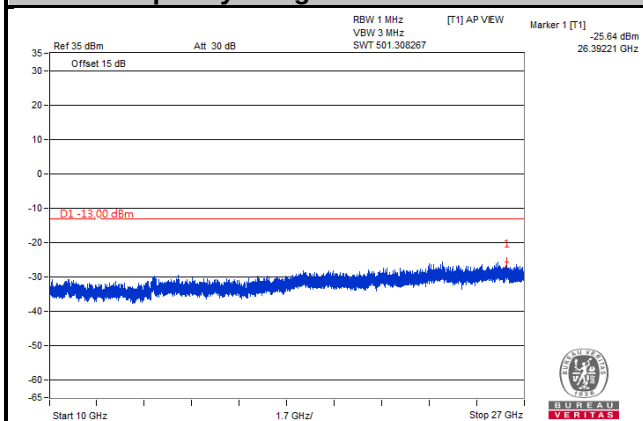
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

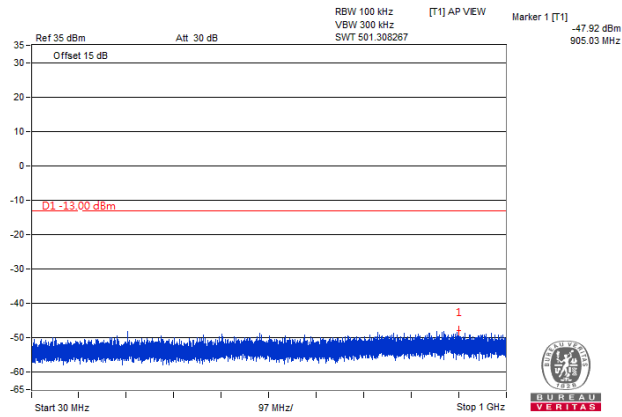


LTE Band 2

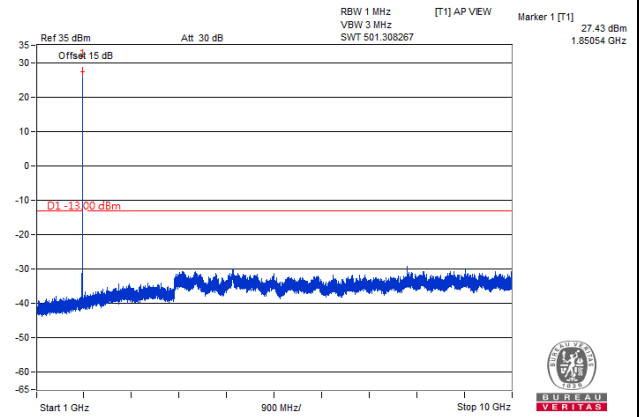
Channel Bandwidth: 5 MHz

Channel 18625

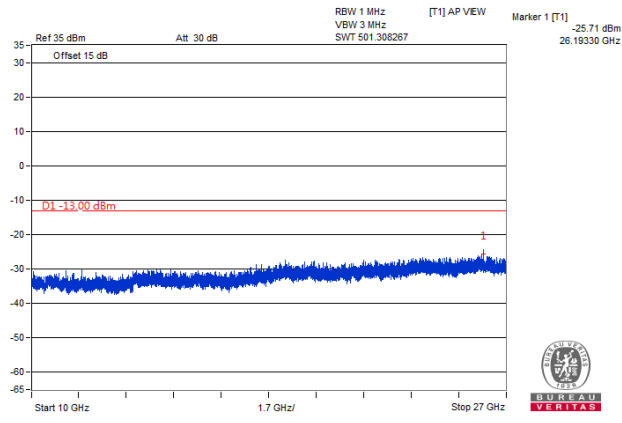
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

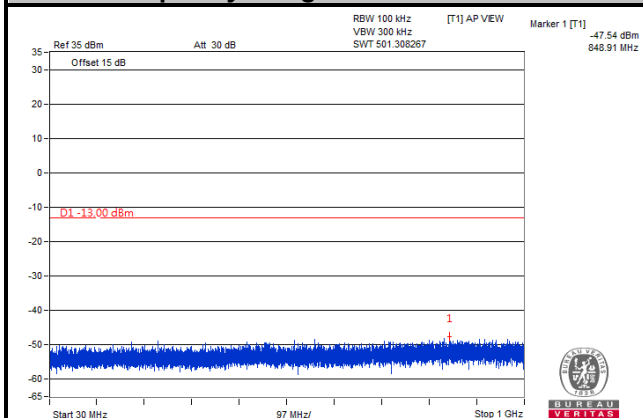


LTE Band 2

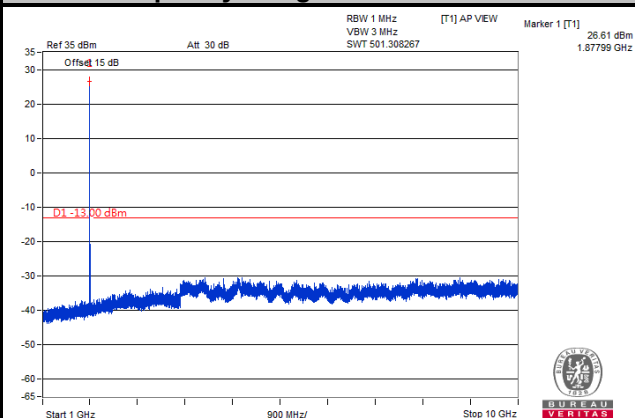
Channel Bandwidth: 5 MHz

Channel 18900

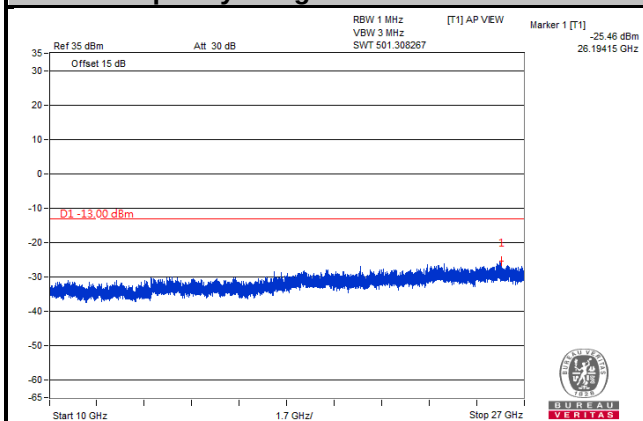
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

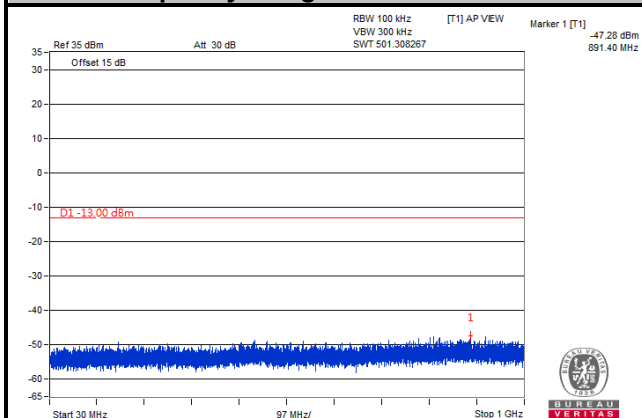


LTE Band 2

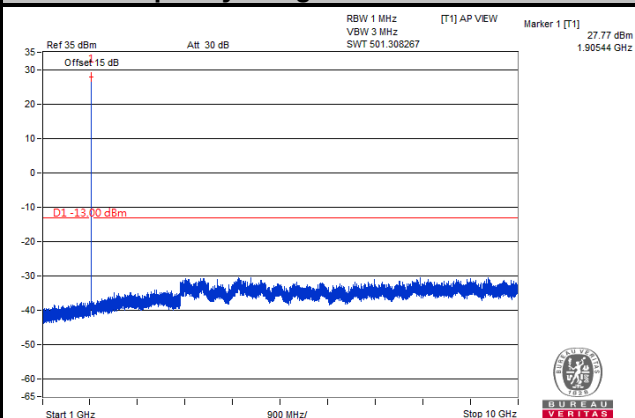
Channel Bandwidth: 5 MHz

Channel 19175

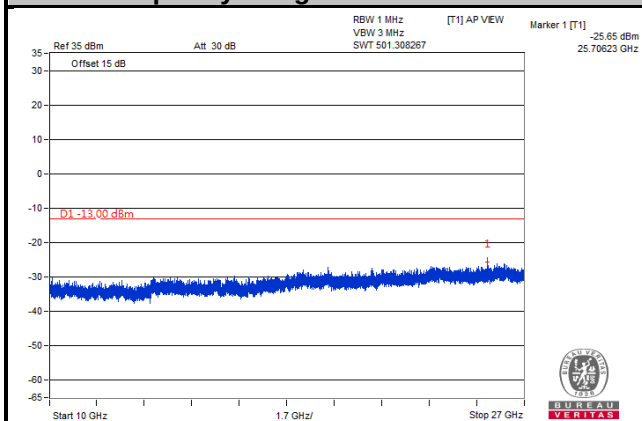
Frequency Range: 30 MHz ~ 1 GHz

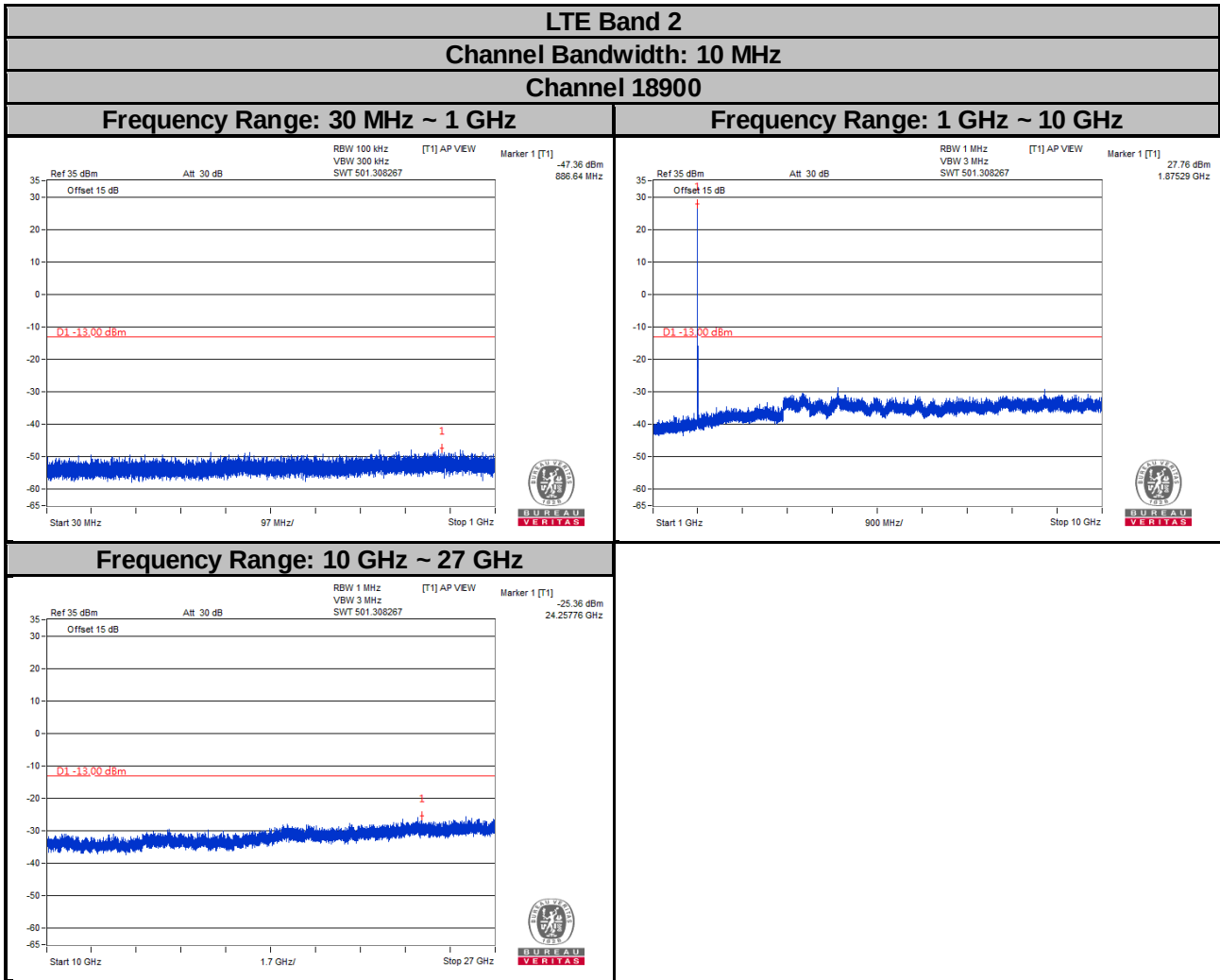


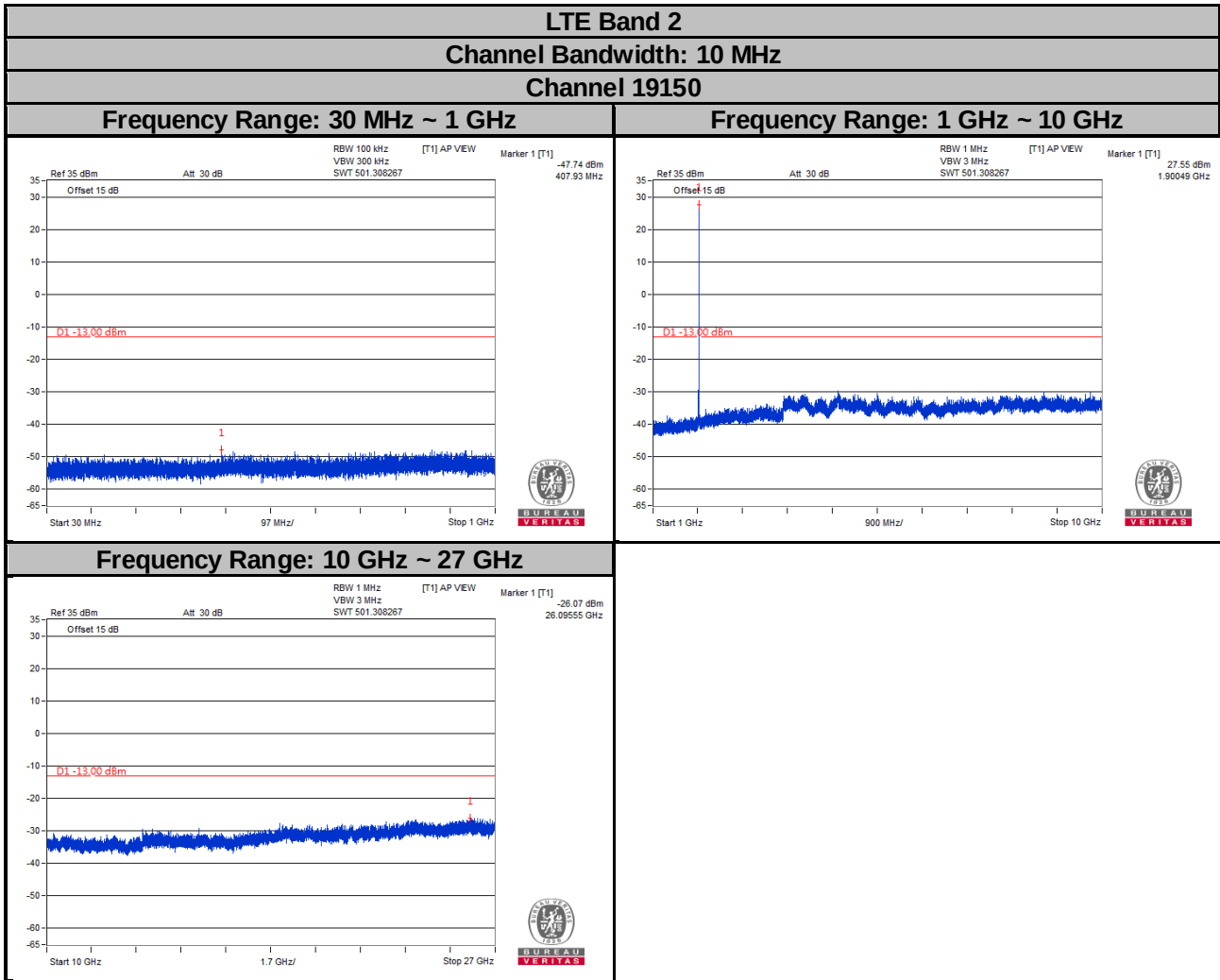
Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz





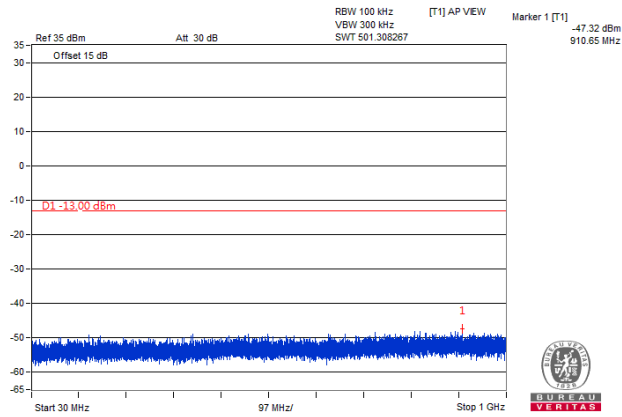


LTE Band 2

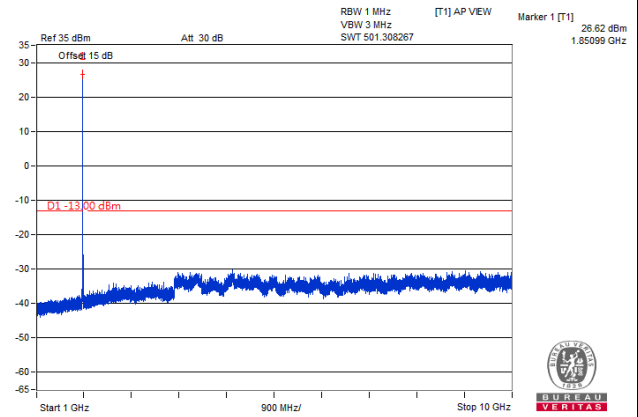
Channel Bandwidth: 15 MHz

Channel 18675

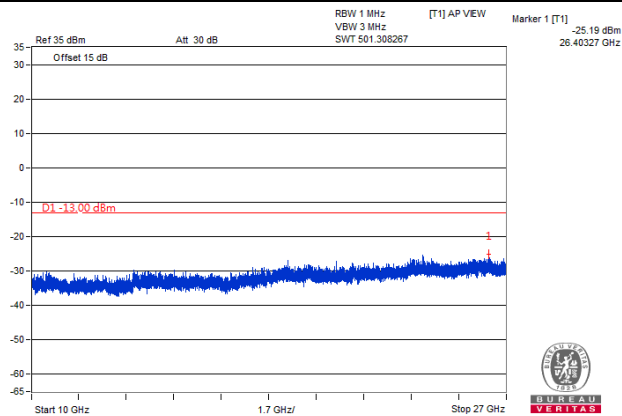
Frequency Range: 30 MHz ~ 1 GHz

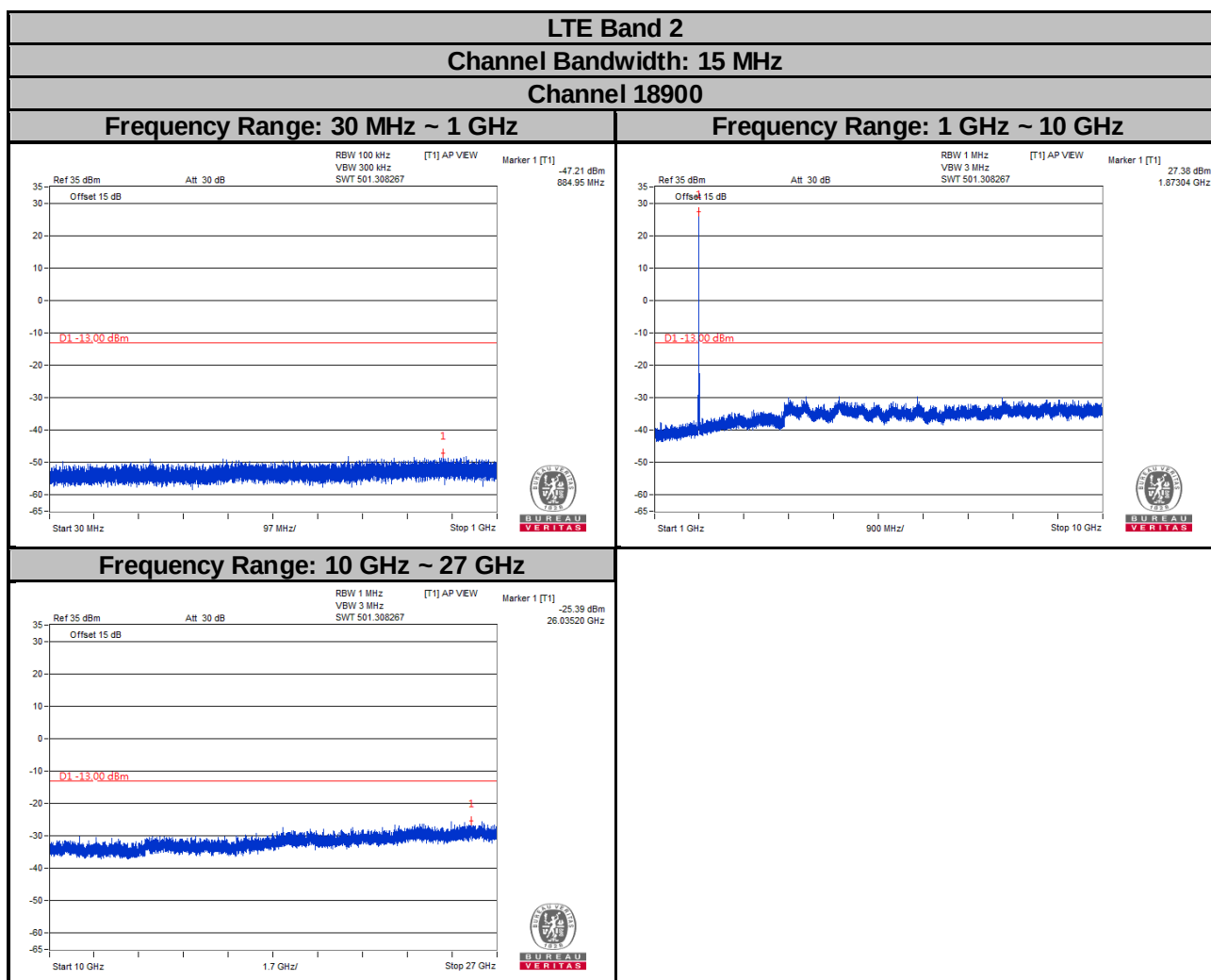


Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



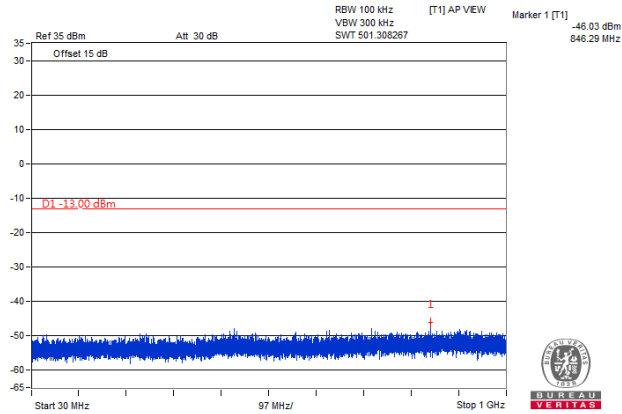


LTE Band 2

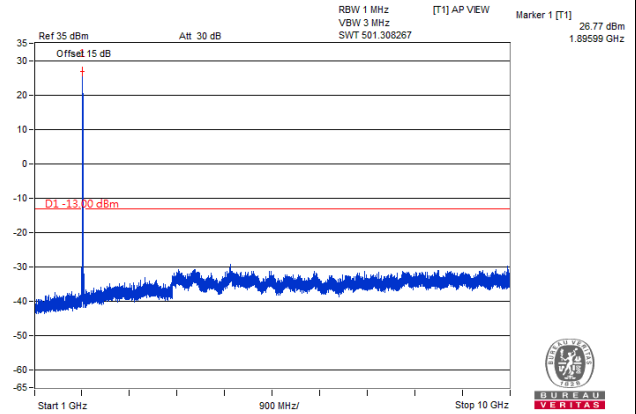
Channel Bandwidth: 15 MHz

Channel 19125

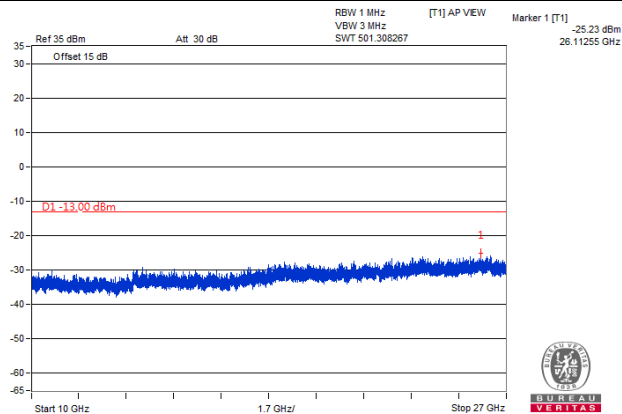
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

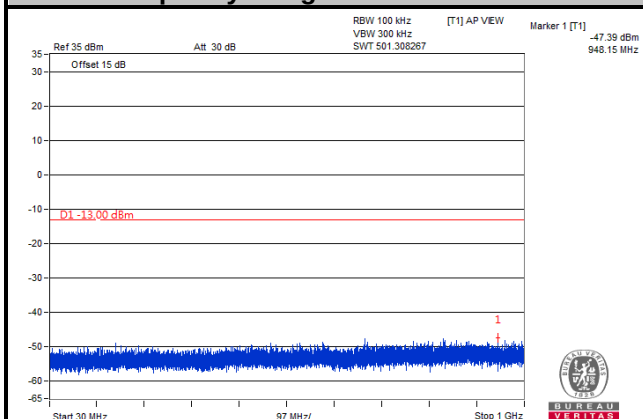


LTE Band 2

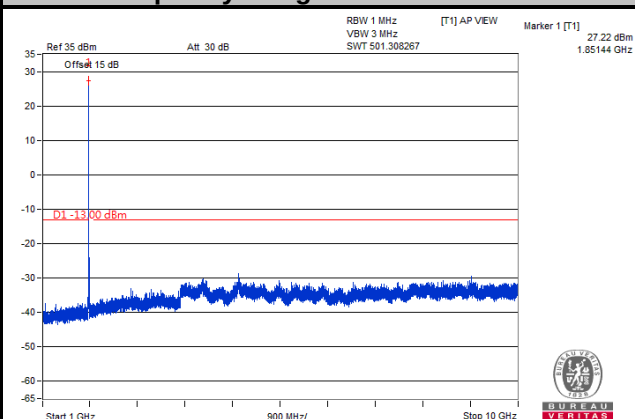
Channel Bandwidth: 20 MHz

Channel 18700

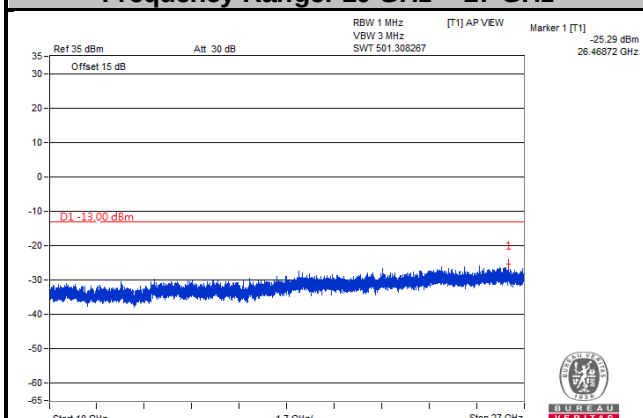
Frequency Range: 30 MHz ~ 1 GHz

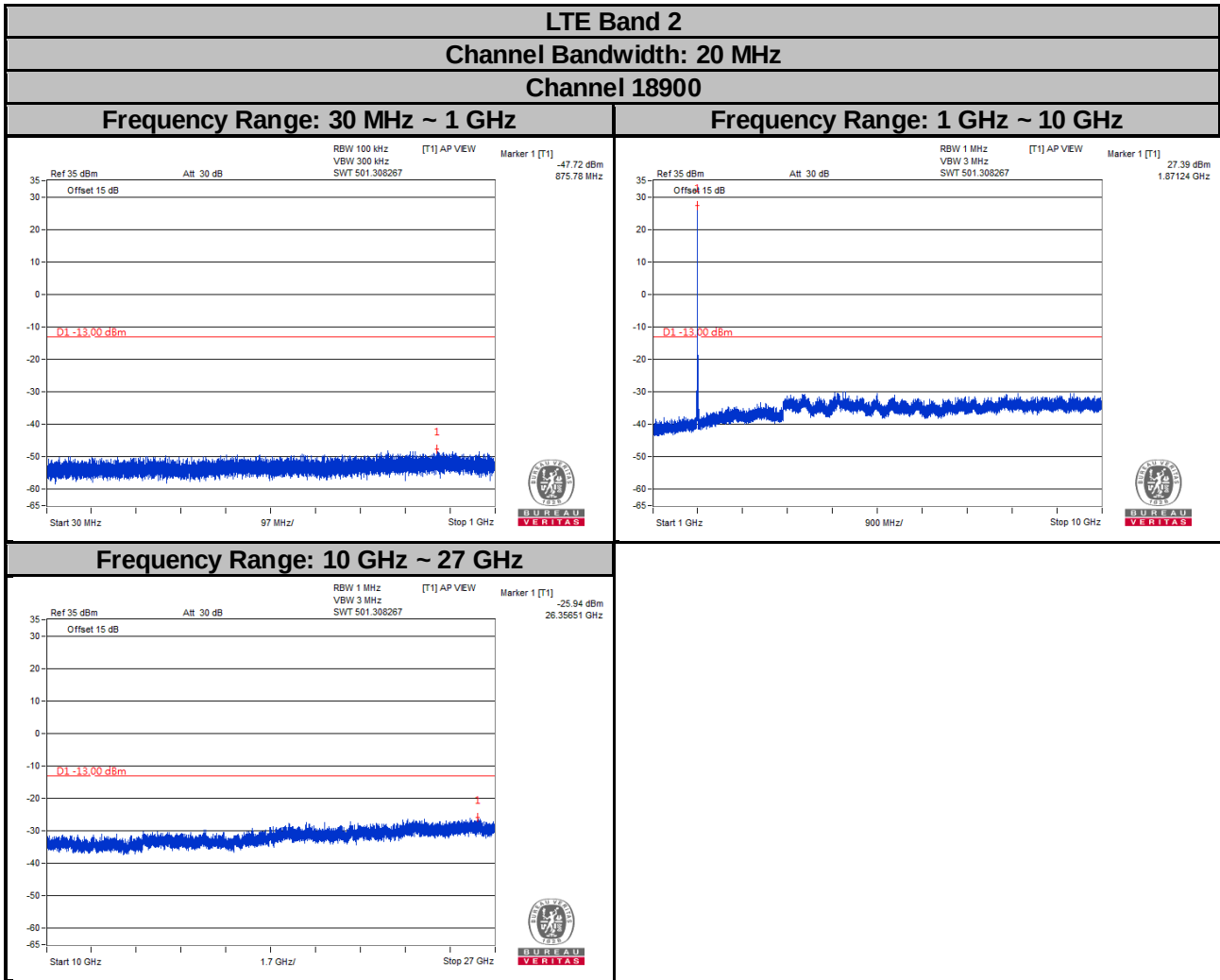


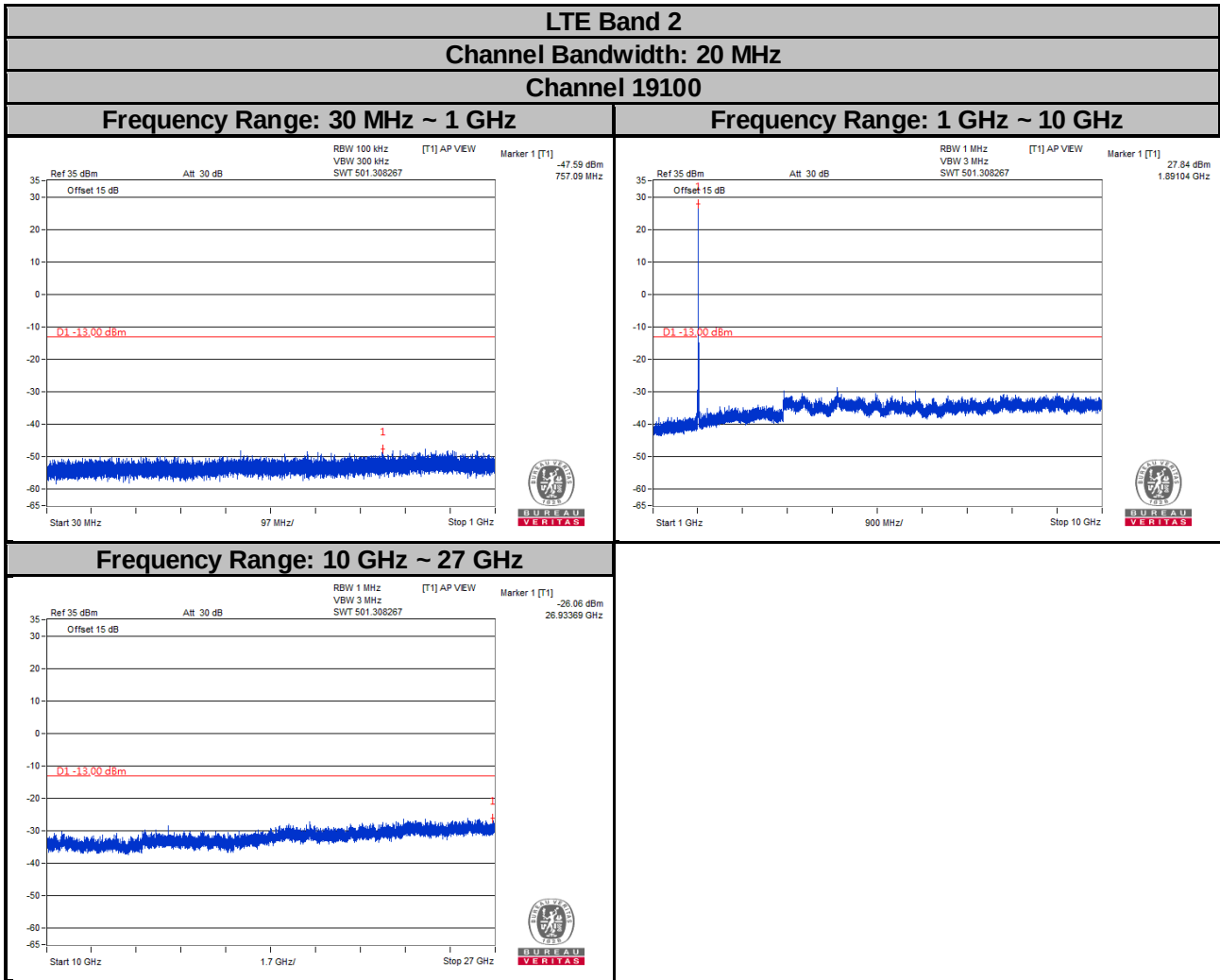
Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz





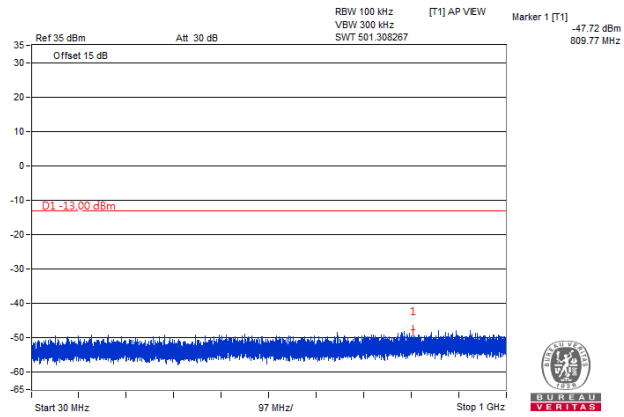


LTE Band 25

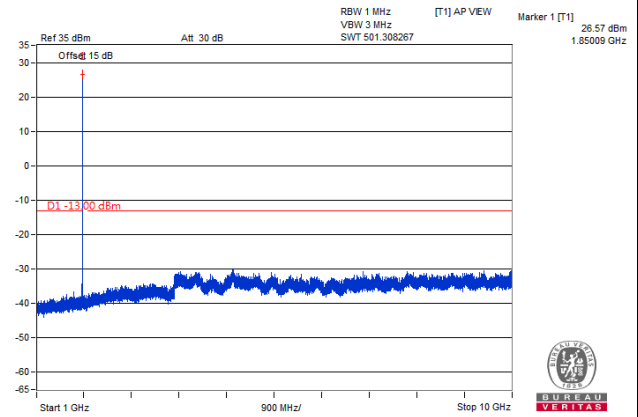
Channel Bandwidth: 1.4 MHz

Channel 26047

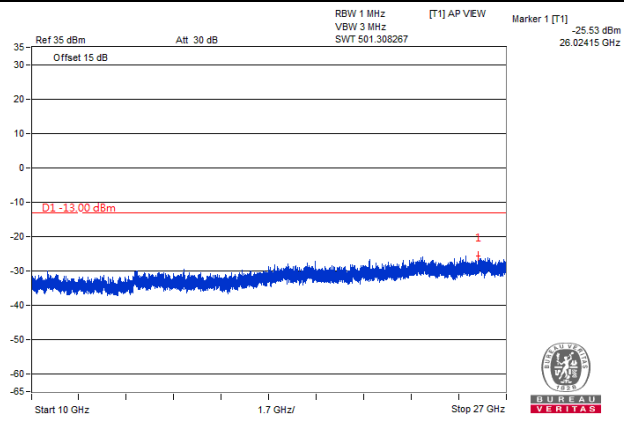
Frequency Range: 30 MHz ~ 1 GHz

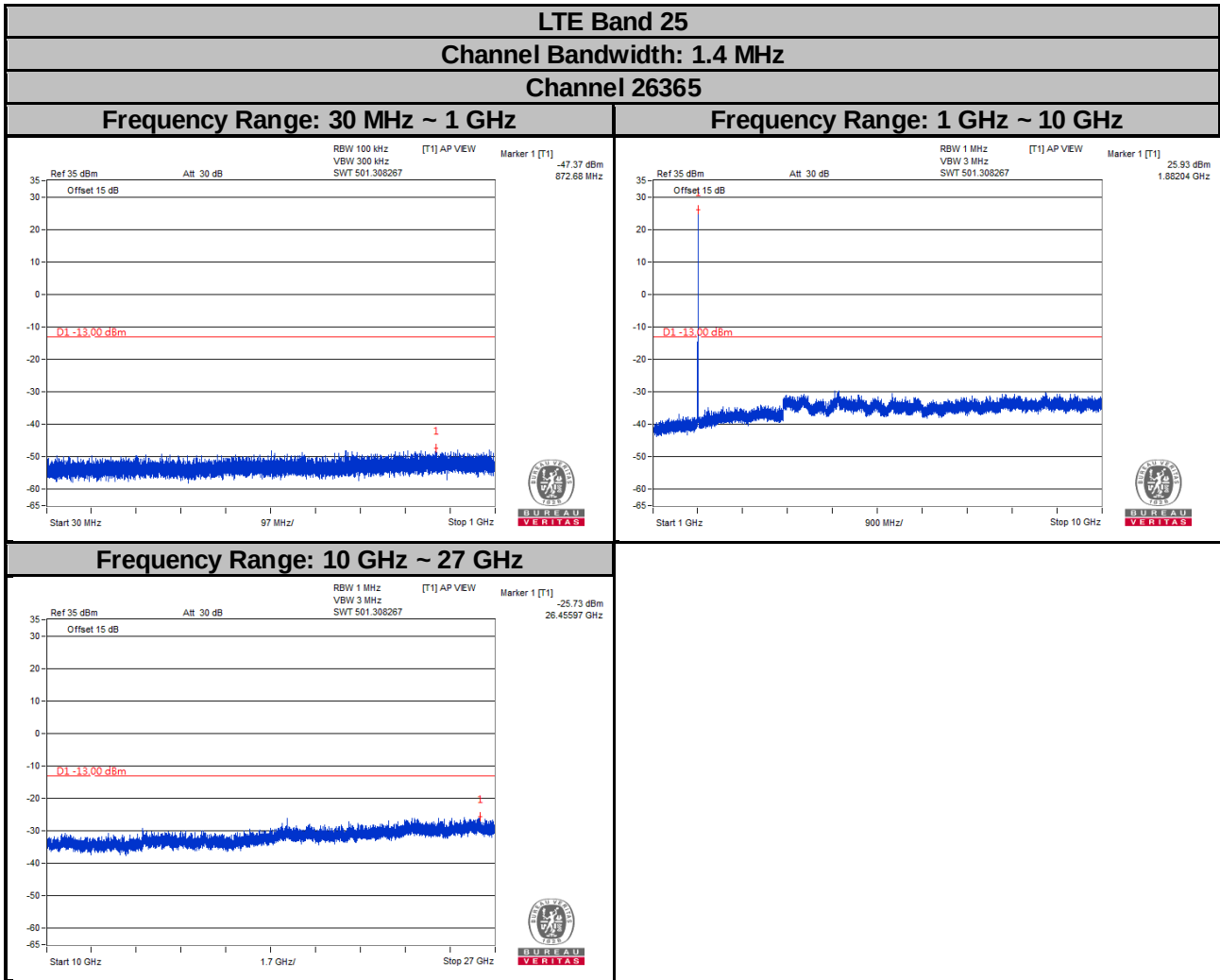


Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



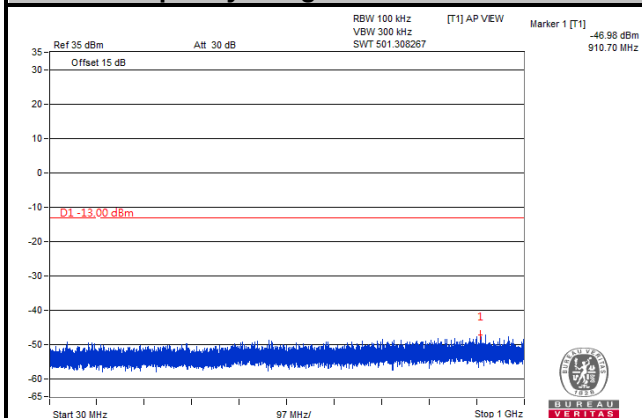


LTE Band 25

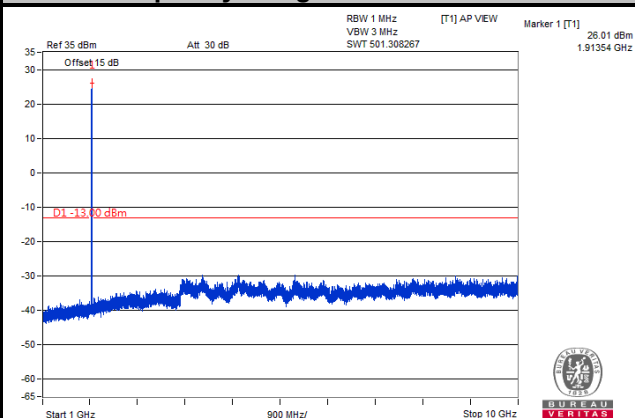
Channel Bandwidth: 1.4 MHz

Channel 26683

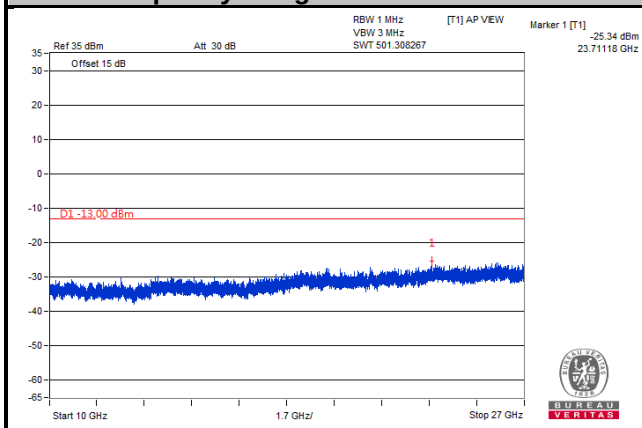
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

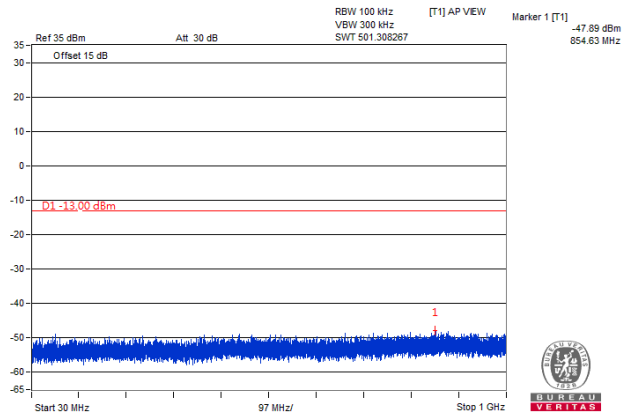


LTE Band 25

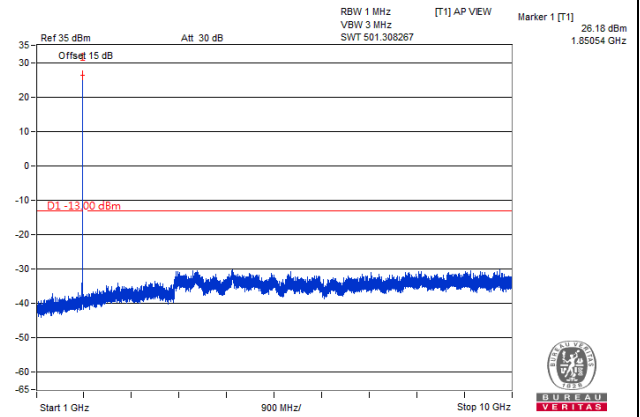
Channel Bandwidth: 3 MHz

Channel 26055

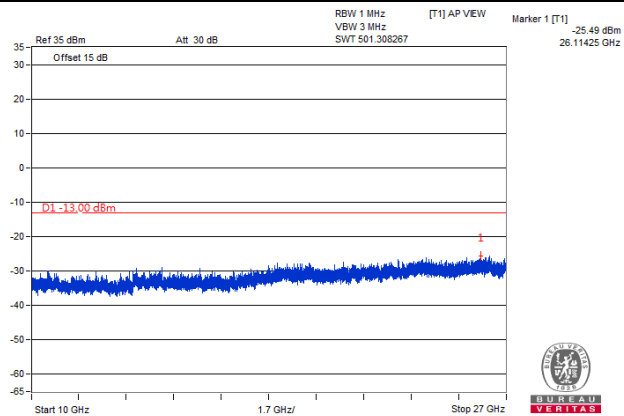
Frequency Range: 30 MHz ~ 1 GHz

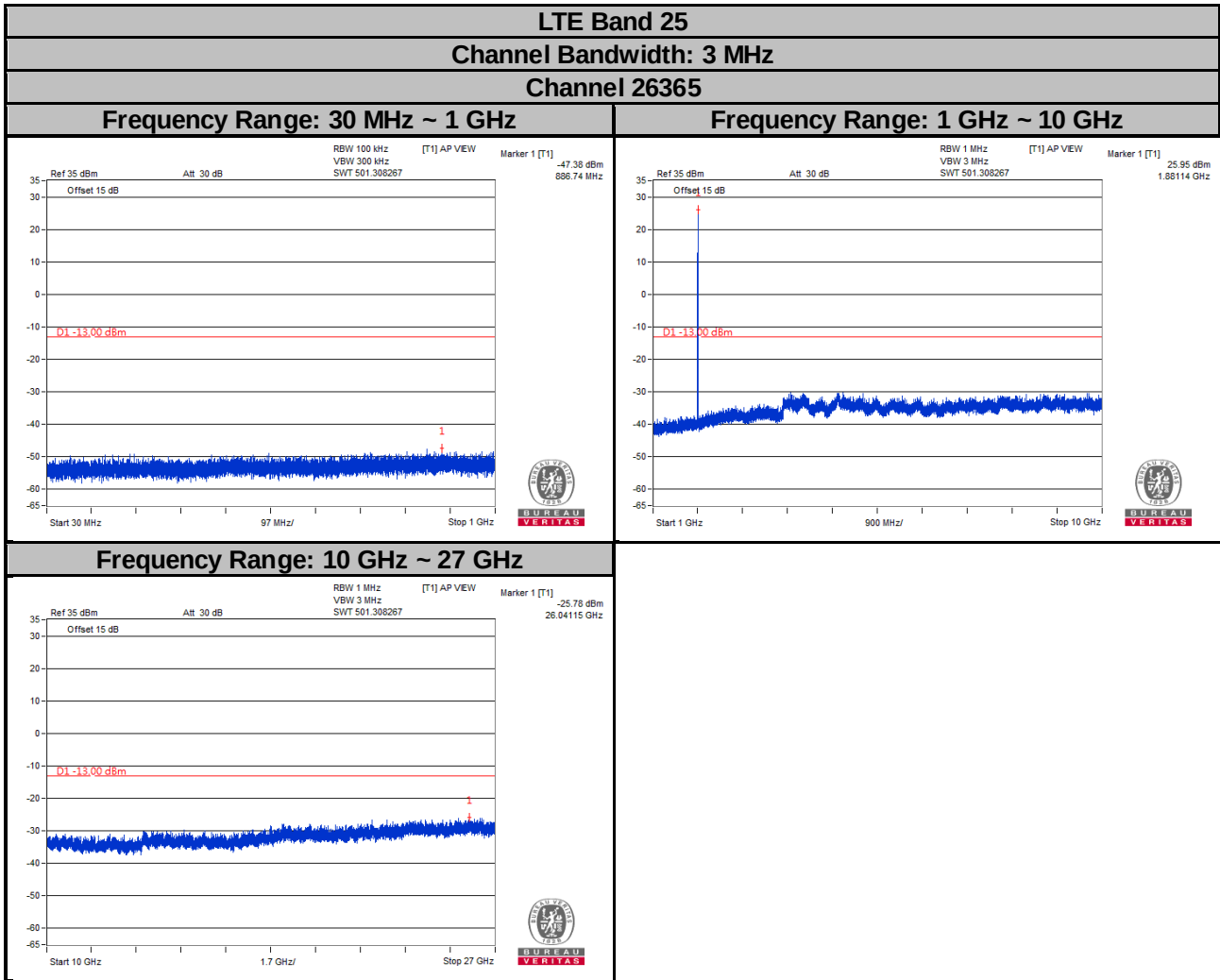


Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



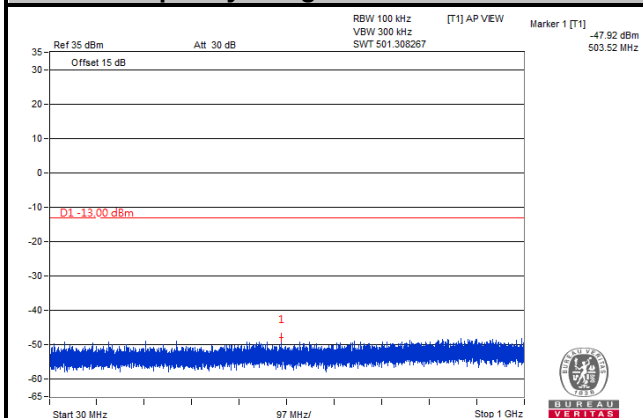


LTE Band 25

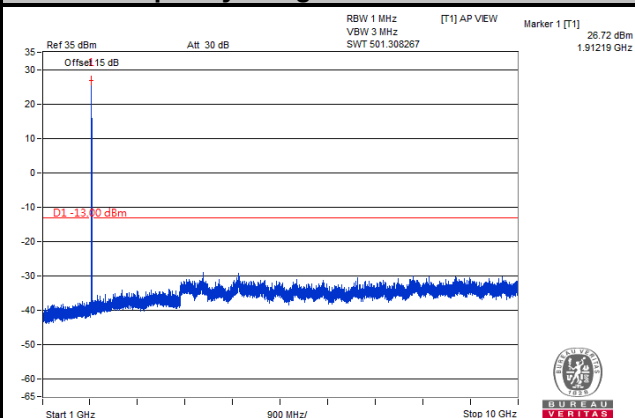
Channel Bandwidth: 3 MHz

Channel 26675

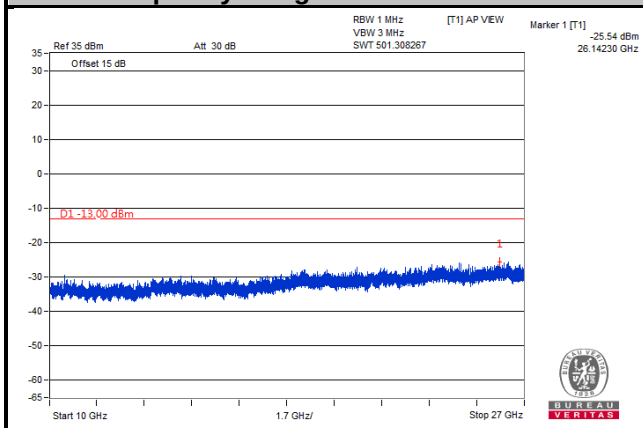
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

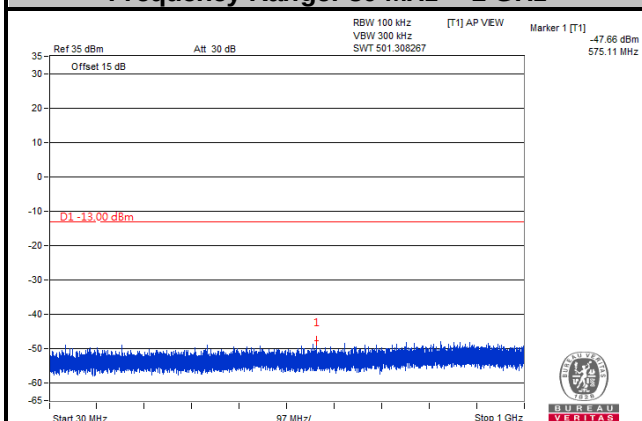


LTE Band 25

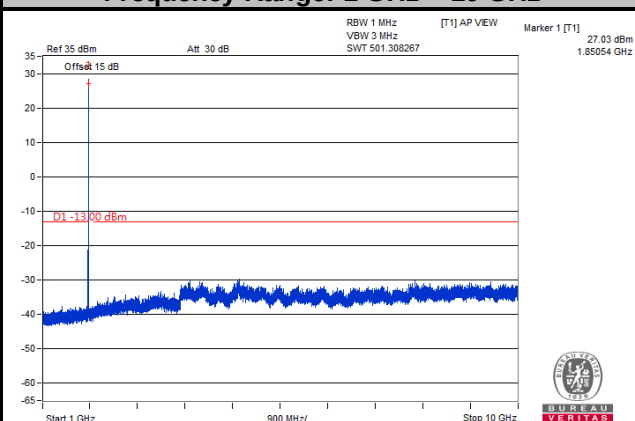
Channel Bandwidth: 5 MHz

Channel 26065

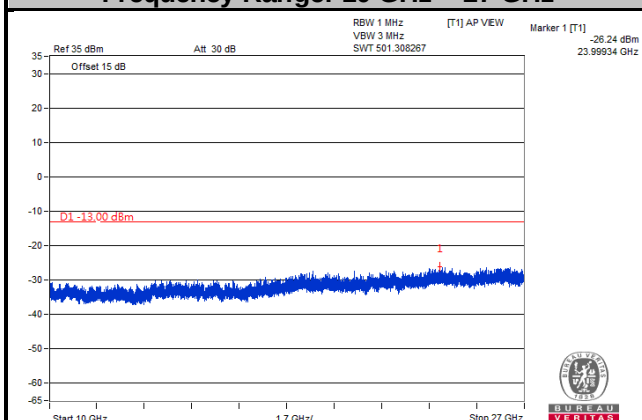
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

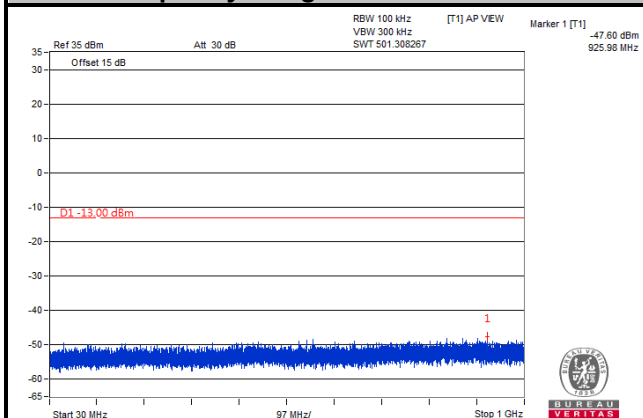


LTE Band 25

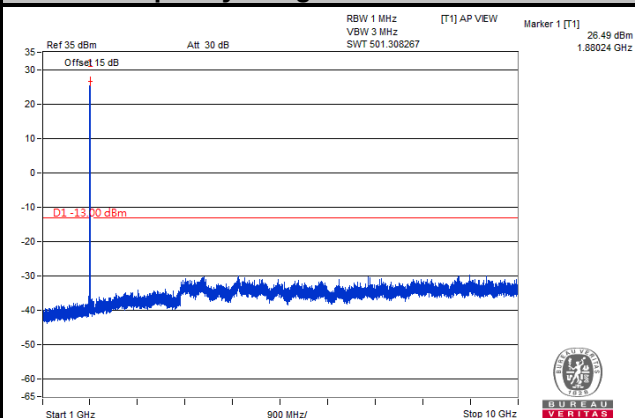
Channel Bandwidth: 5 MHz

Channel 26365

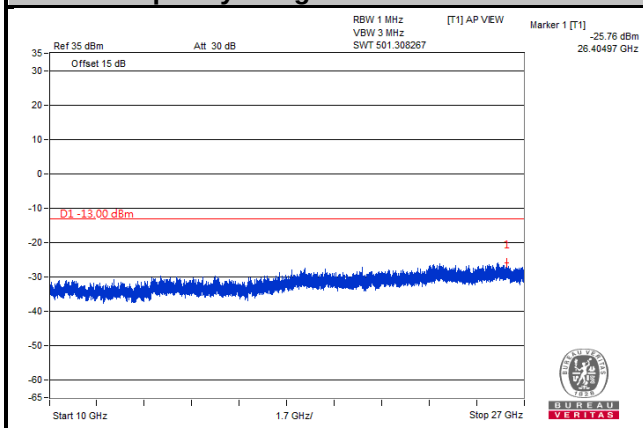
Frequency Range: 30 MHz ~ 1 GHz

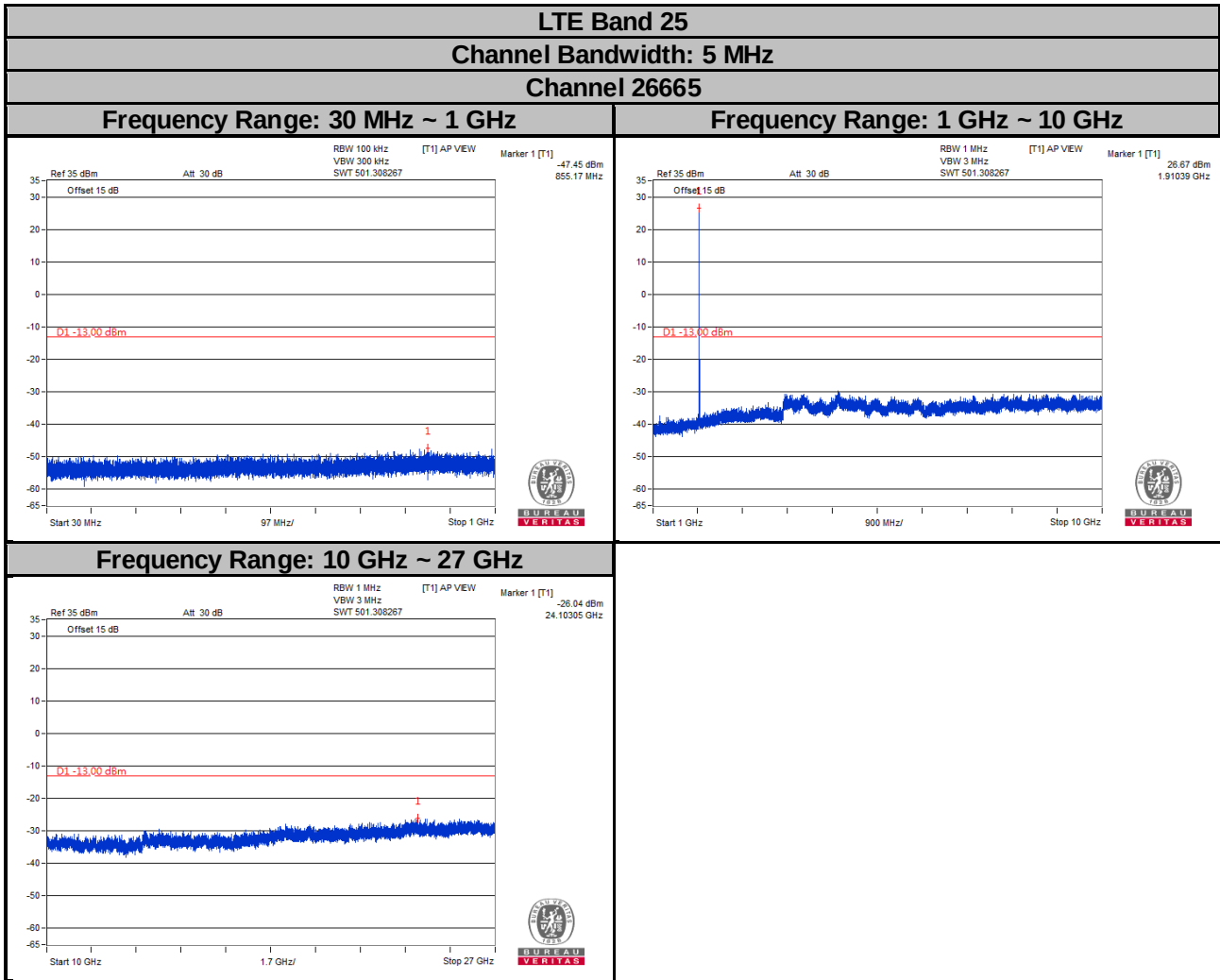


Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz





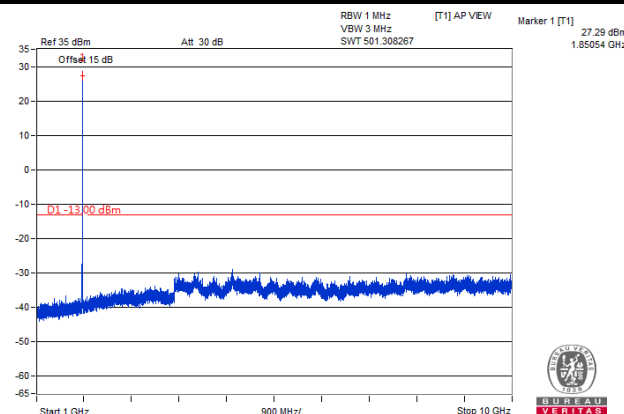
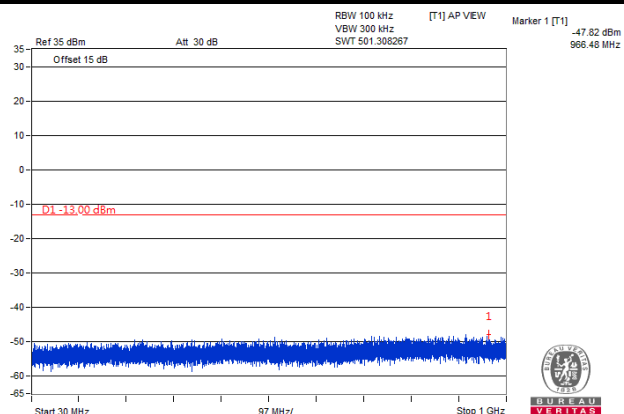
LTE Band 25

Channel Bandwidth: 10 MHz

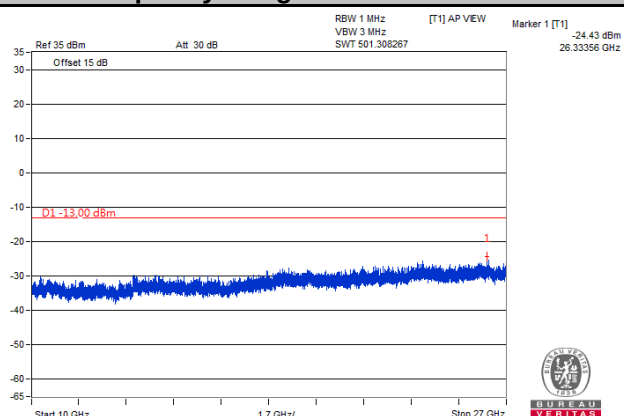
Channel 26090

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

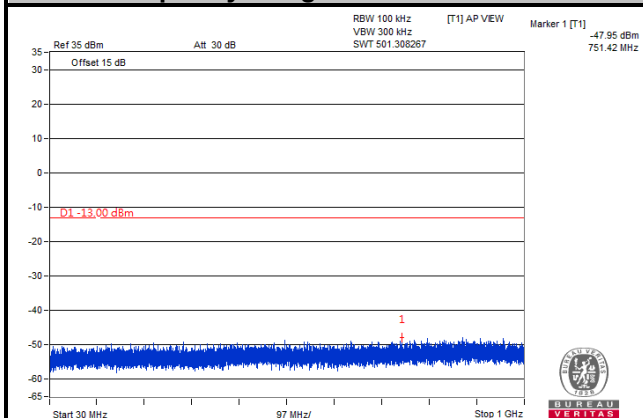


LTE Band 25

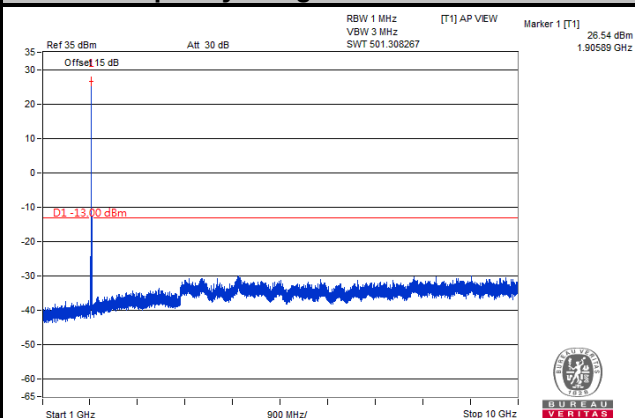
Channel Bandwidth: 10 MHz

Channel 26640

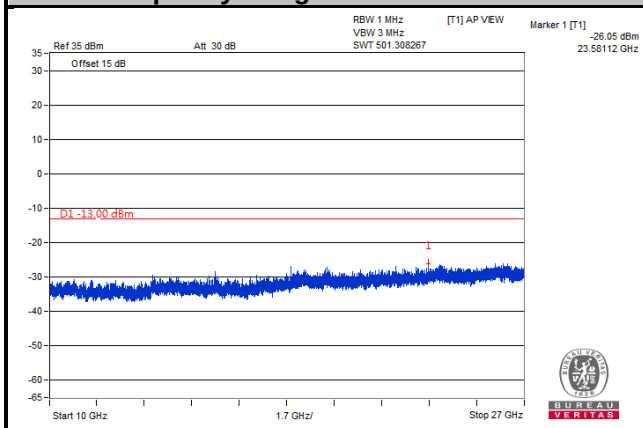
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



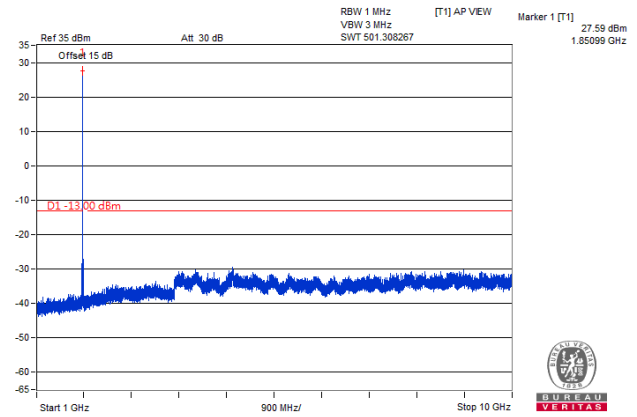
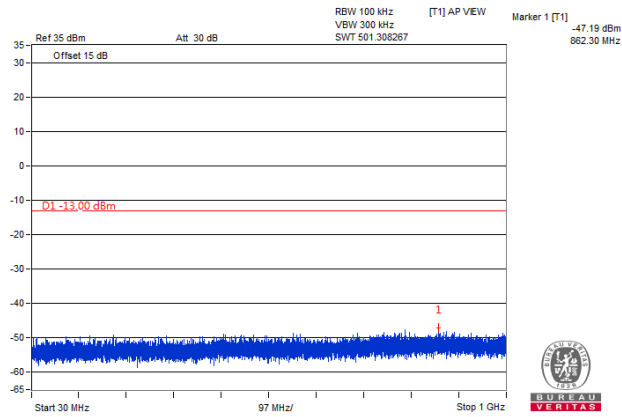
LTE Band 25

Channel Bandwidth: 15 MHz

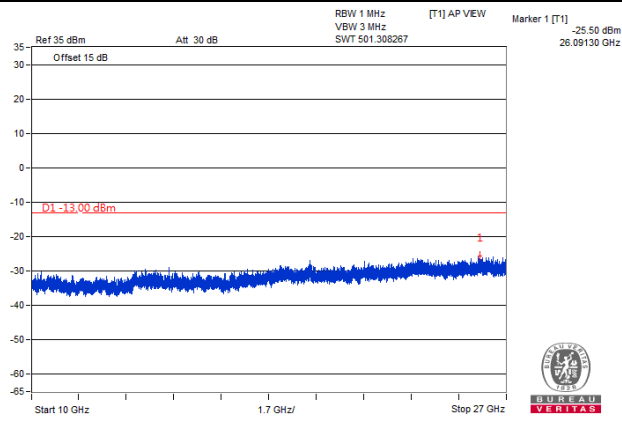
Channel 26115

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



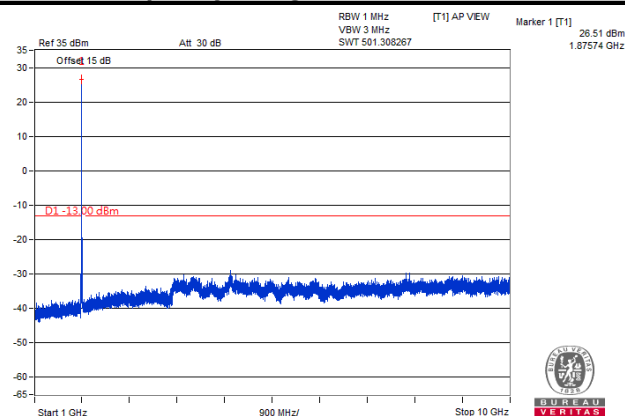
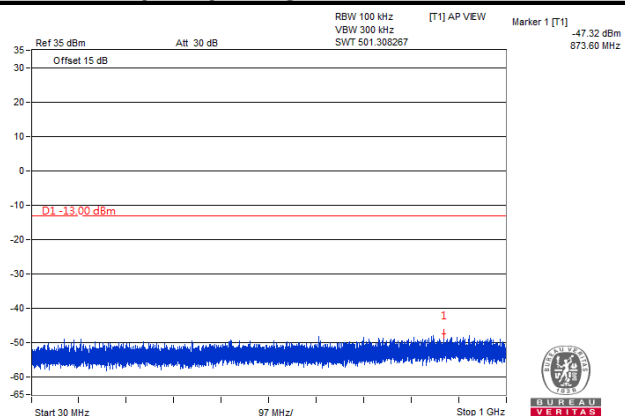
LTE Band 25

Channel Bandwidth: 15 MHz

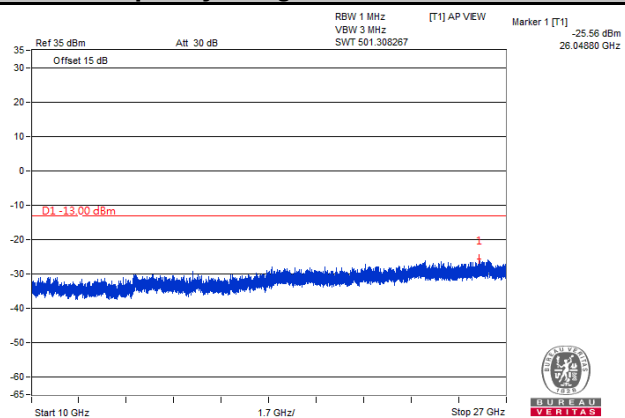
Channel 26365

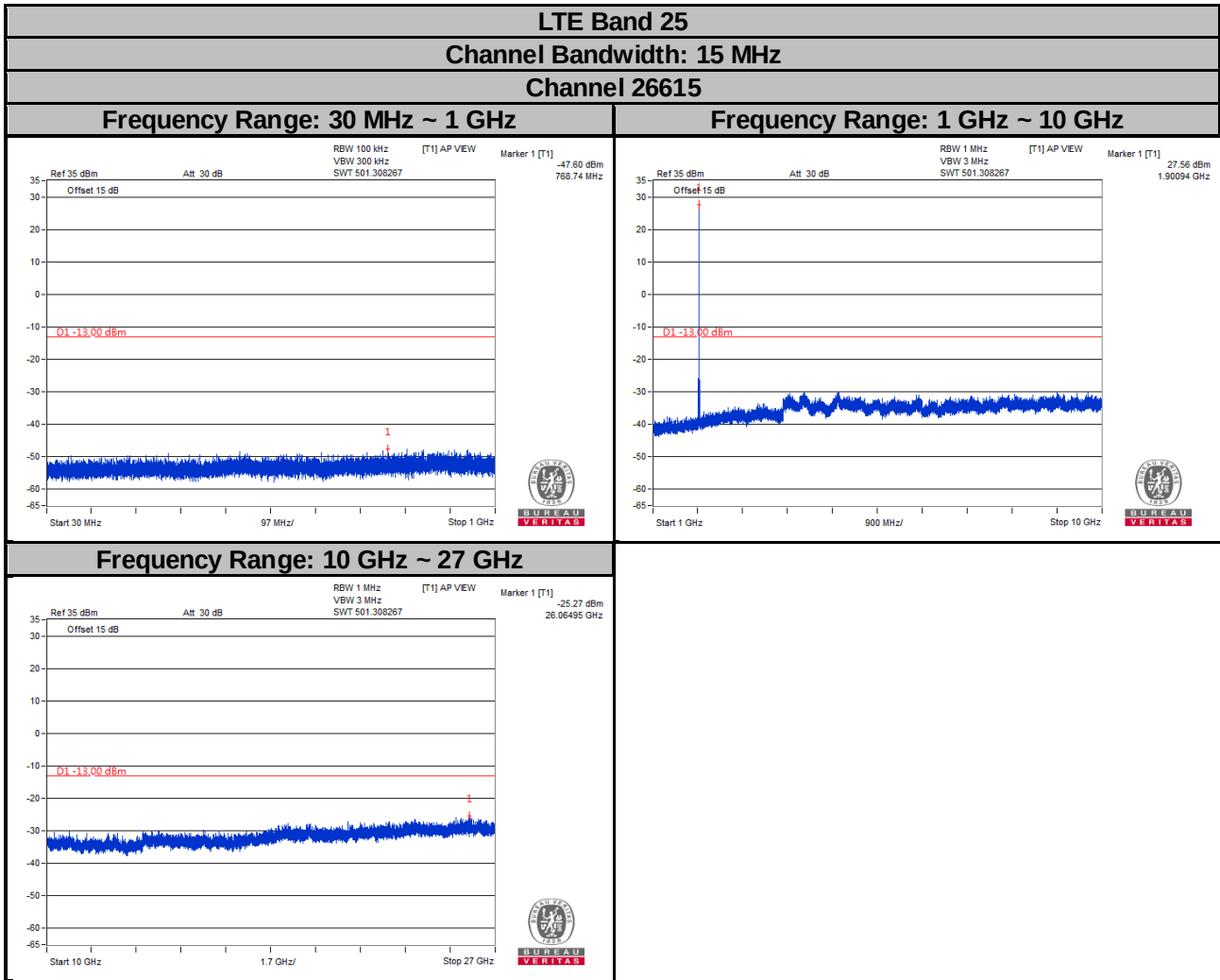
Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



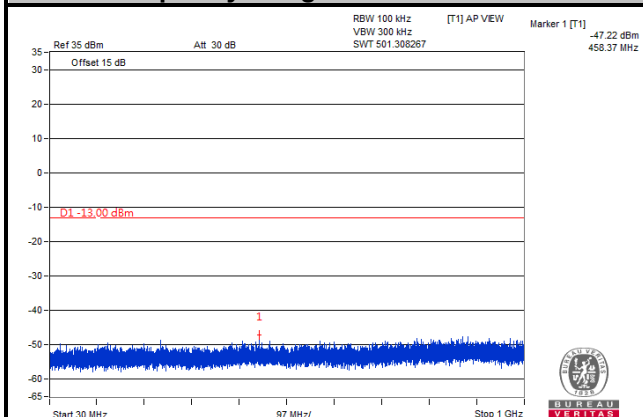


LTE Band 25

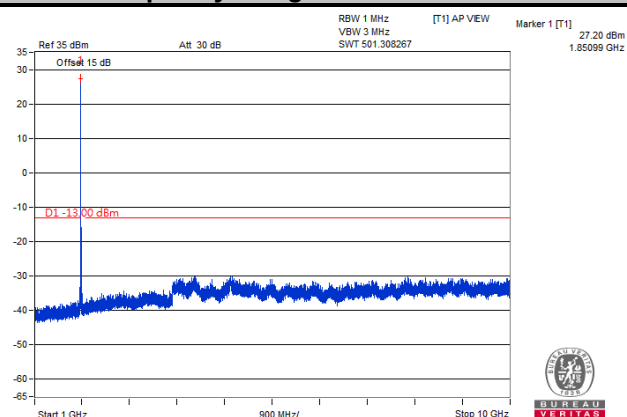
Channel Bandwidth: 20 MHz

Channel 26140

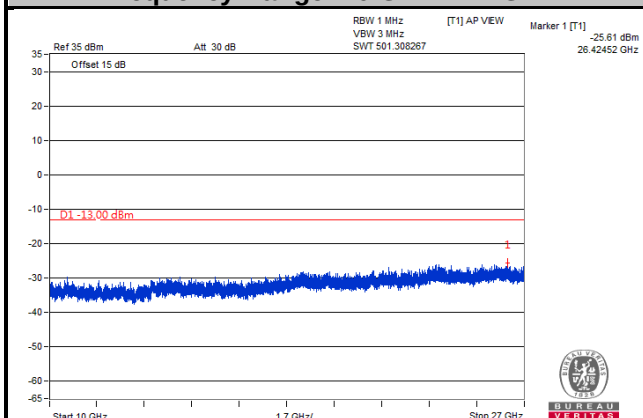
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

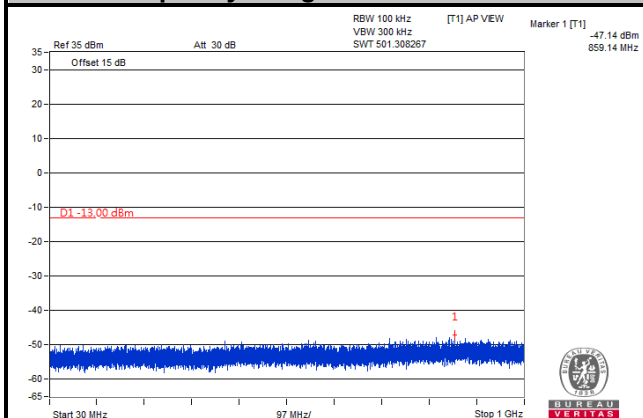


LTE Band 25

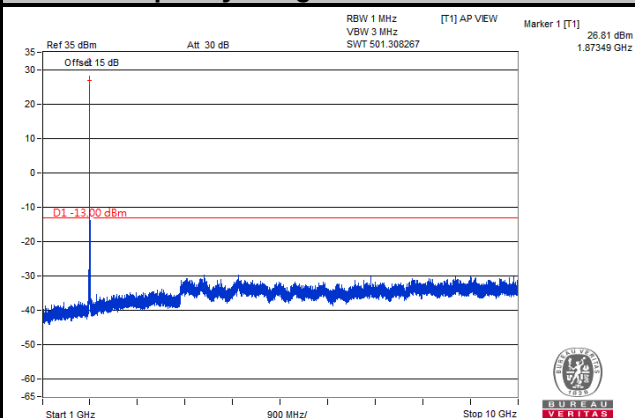
Channel Bandwidth: 20 MHz

Channel 26365

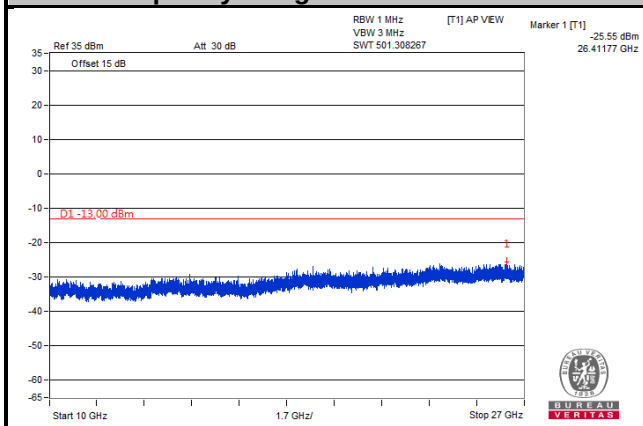
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

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

4.7.2 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$.

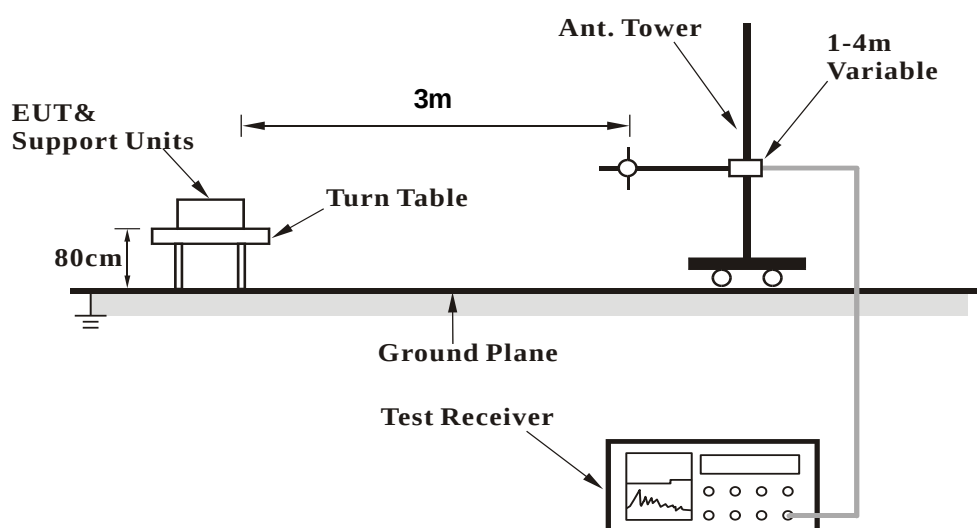
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.7.3 Deviation from Test Standard

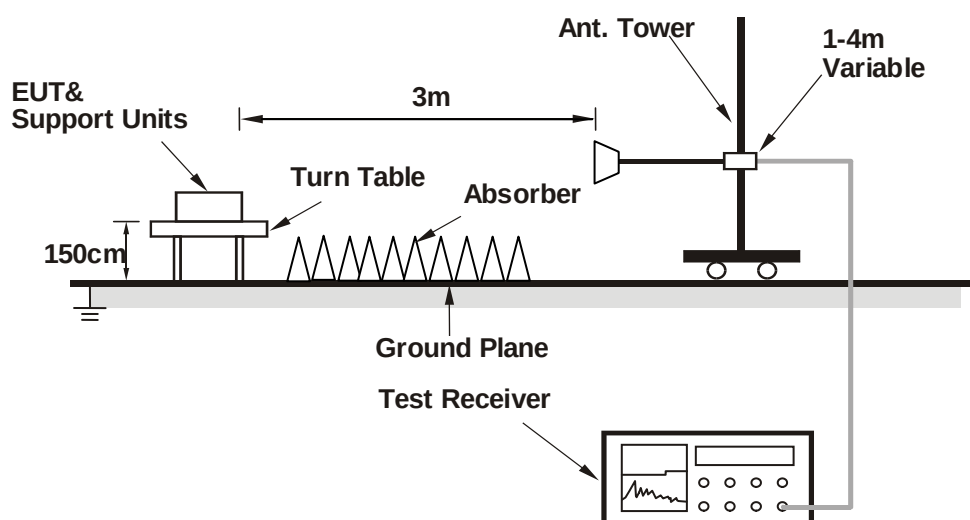
No deviation.

4.7.4 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).

4.7.5 Test Results

WCDMA:

Low Channel

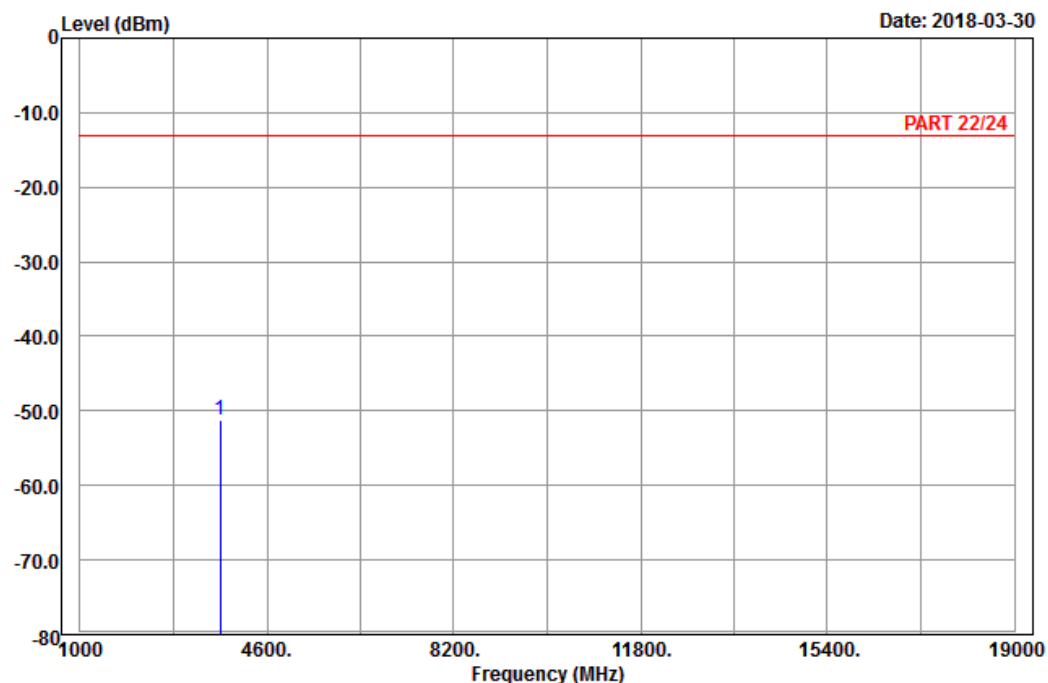


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 9

Date: 2018-03-30



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Bnad II_Link_CH9262
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-51.23	-67.11	-13.00	-38.23	15.88	Peak

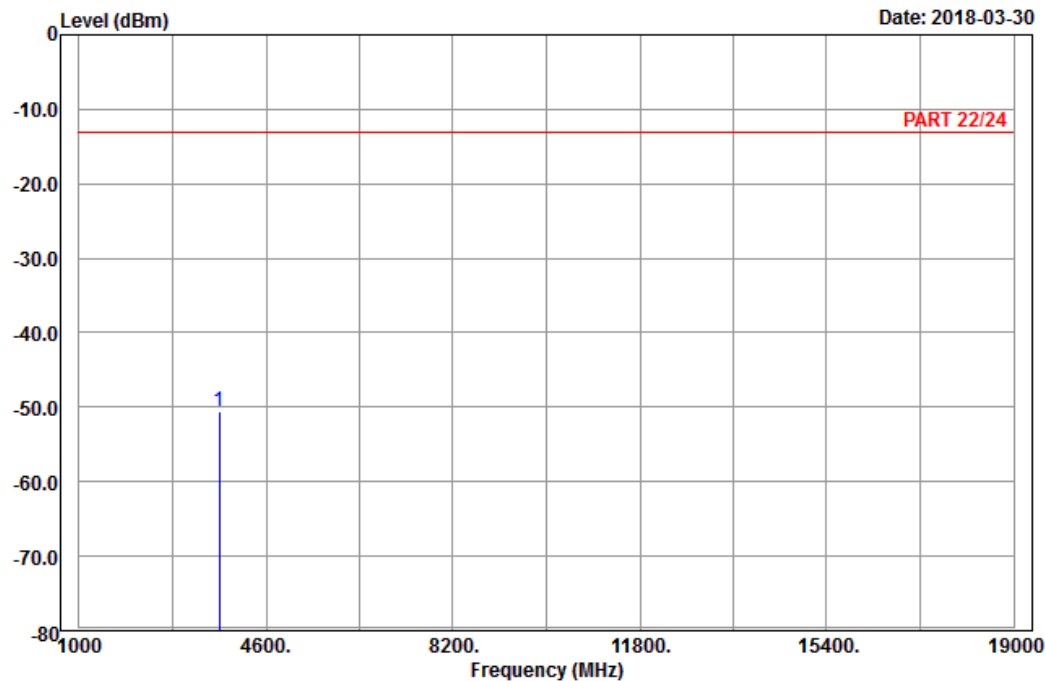


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-30



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : Bnad II_Link_CH9262
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-50.52	-66.40	-13.00	-37.52	15.88	Peak

Middle Channel

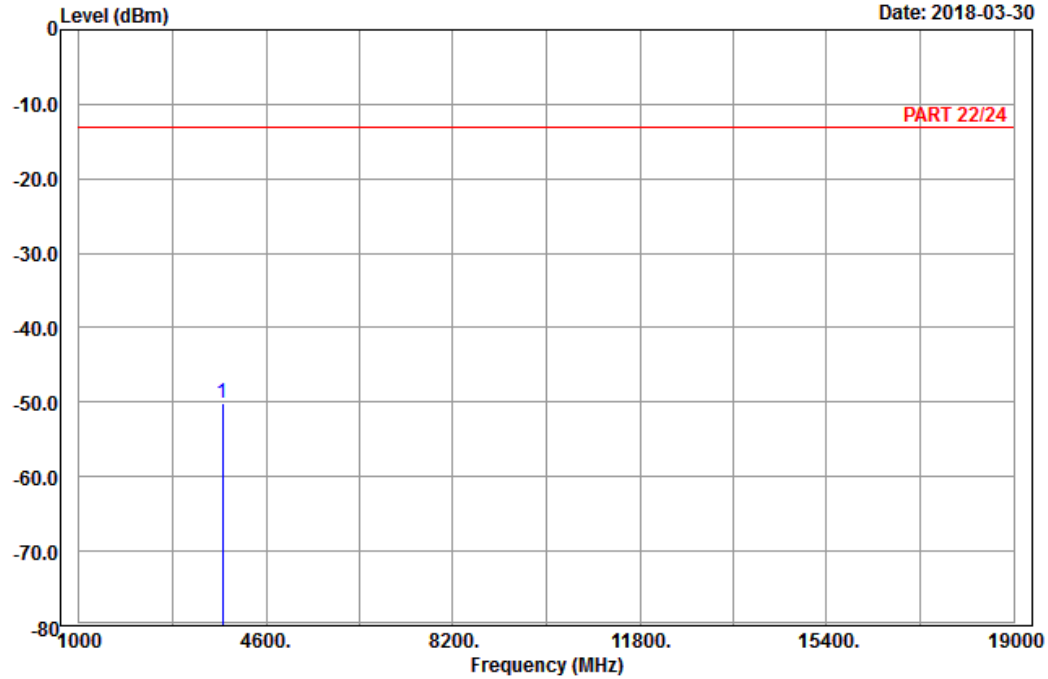


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-30



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Bnad II_Link_CH9400
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.15	-66.29	-13.00	-37.15	16.14	Peak

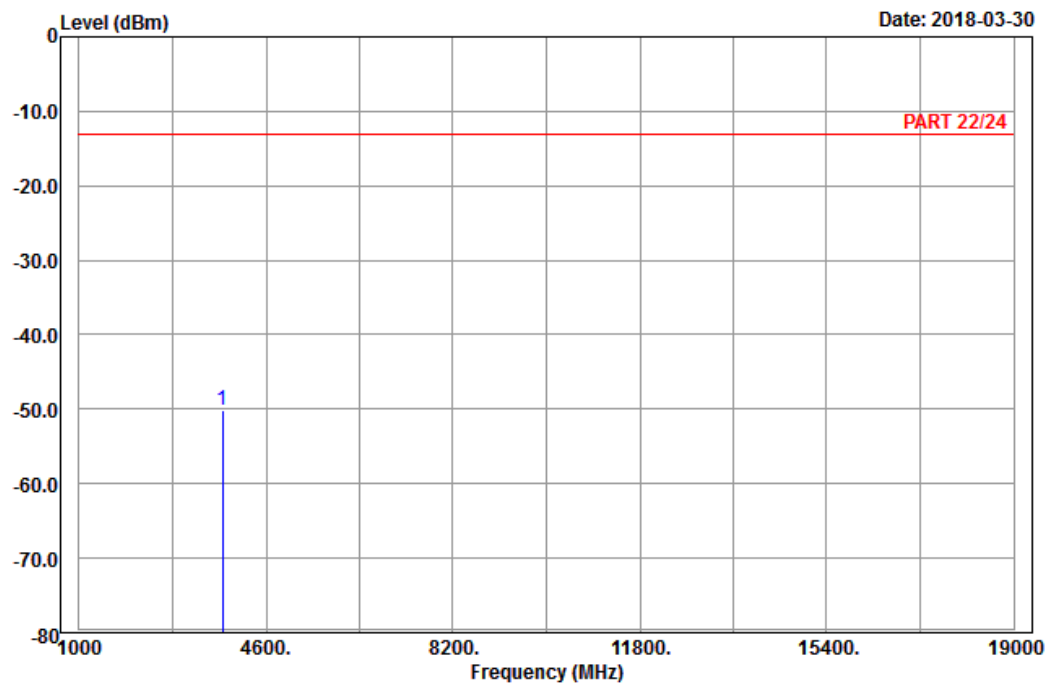


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-30



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : Bnad II_Link_CH9400
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.24	-66.38	-13.00	-37.24	16.14	Peak

High Channel

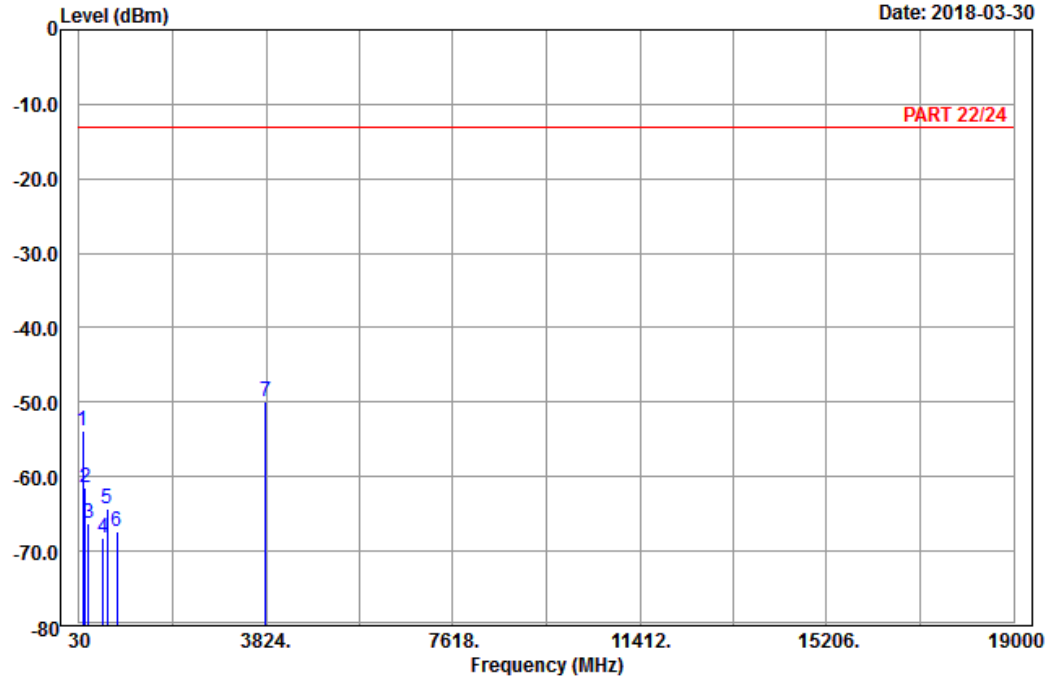


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2018-03-30



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Bnad II_Link_CH9538
Tested by: Karl Lee

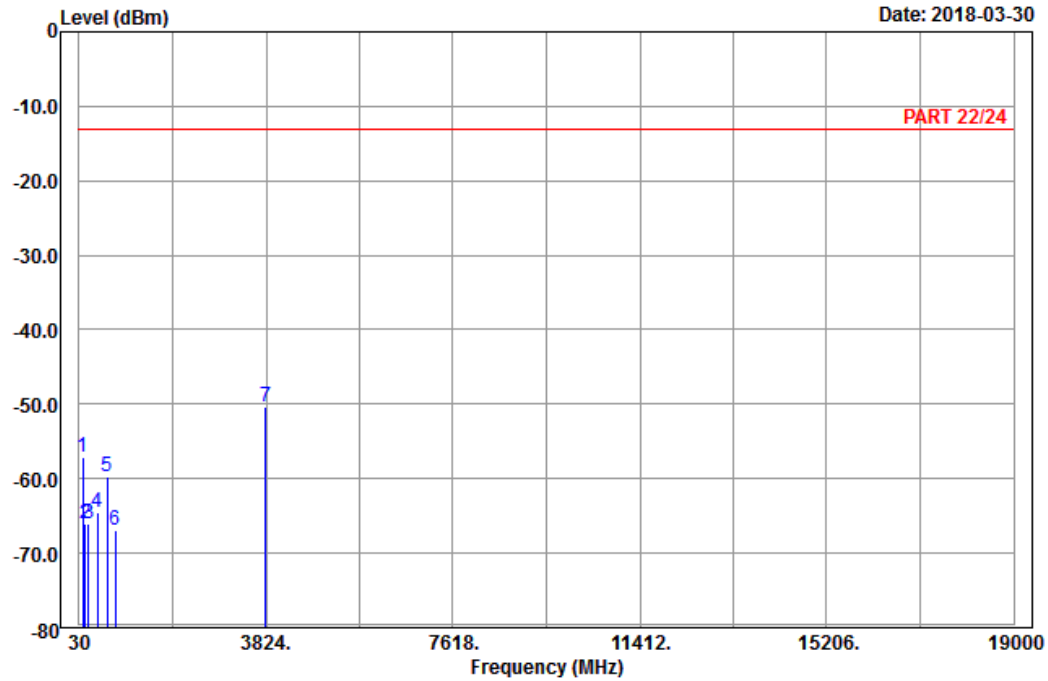
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	105.87	-53.74	-44.32	-13.00	-40.74	-9.42	Peak
2	158.52	-61.53	-53.81	-13.00	-48.53	-7.72	Peak
3	224.13	-66.31	-60.45	-13.00	-53.31	-5.86	Peak
4	509.30	-68.18	-63.54	-13.00	-55.18	-4.64	Peak
5	607.30	-64.23	-64.58	-13.00	-51.23	0.35	Peak
6	797.00	-67.35	-69.17	-13.00	-54.35	1.82	Peak
7 pp	3815.20	-50.00	-66.41	-13.00	-37.00	16.41	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Bnad II_Link_CH9538
 Tested by: Karl Lee

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	105.33	-57.17	-47.75	-13.00	-44.17	-9.42	Peak
2	150.42	-65.96	-58.01	-13.00	-52.96	-7.95	Peak
3	214.68	-66.14	-60.15	-13.00	-53.14	-5.99	Peak
4	396.60	-64.59	-61.69	-13.00	-51.59	-2.90	Peak
5	603.80	-59.67	-60.05	-13.00	-46.67	0.38	Peak
6	768.30	-67.02	-66.92	-13.00	-54.02	-0.10	Peak
7 pp	3815.20	-50.40	-66.81	-13.00	-37.40	16.41	Peak

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

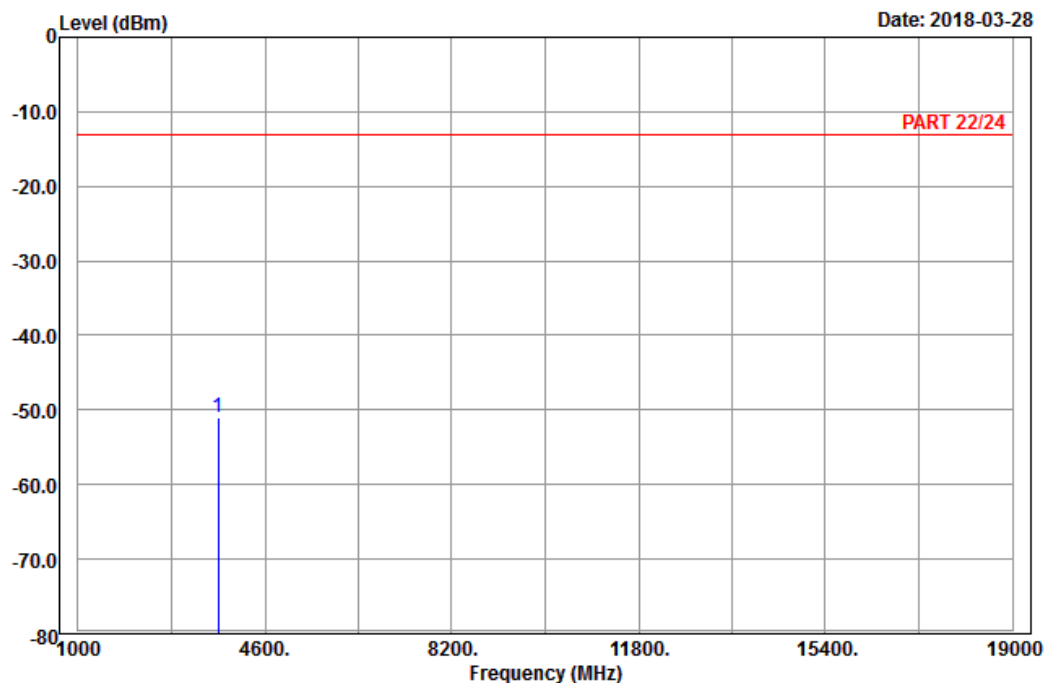


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18607
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-51.01	-66.89	-13.00	-38.01	15.88	Peak

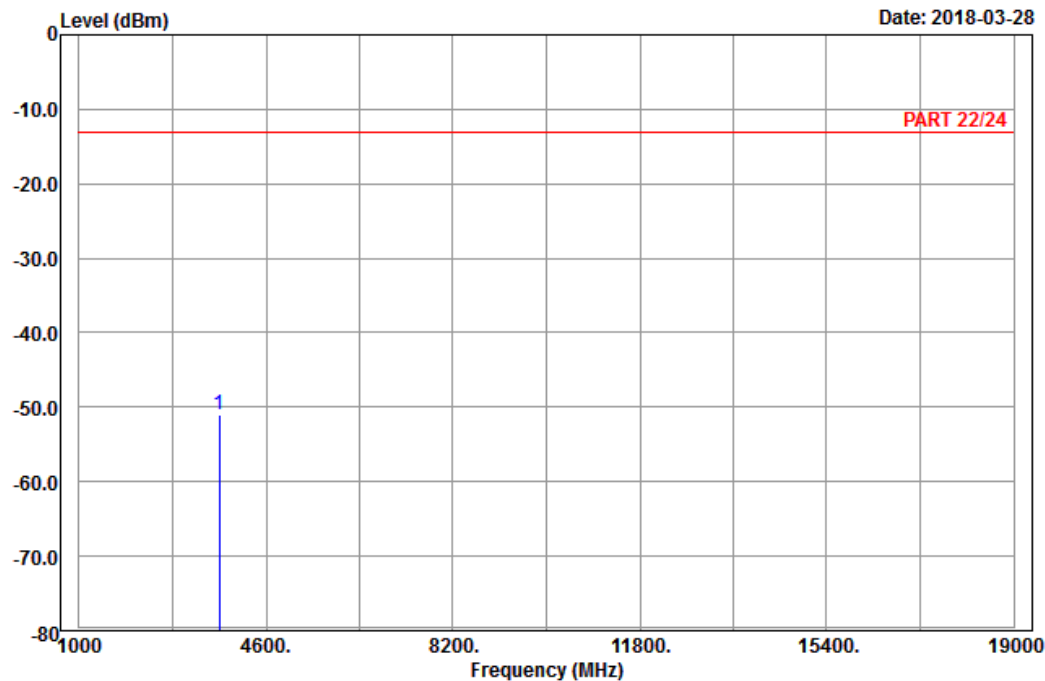


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18607
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-51.06	-66.94	-13.00	-38.06	15.88	Peak

Middle Channel

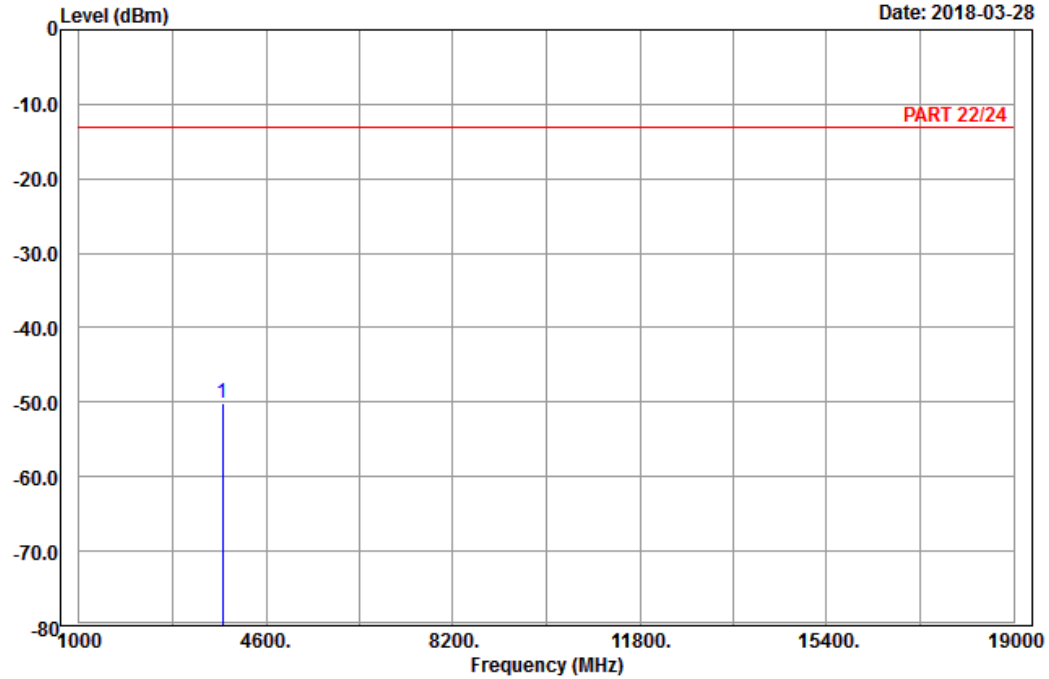


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.23	-66.37	-13.00	-37.23	16.14	Peak

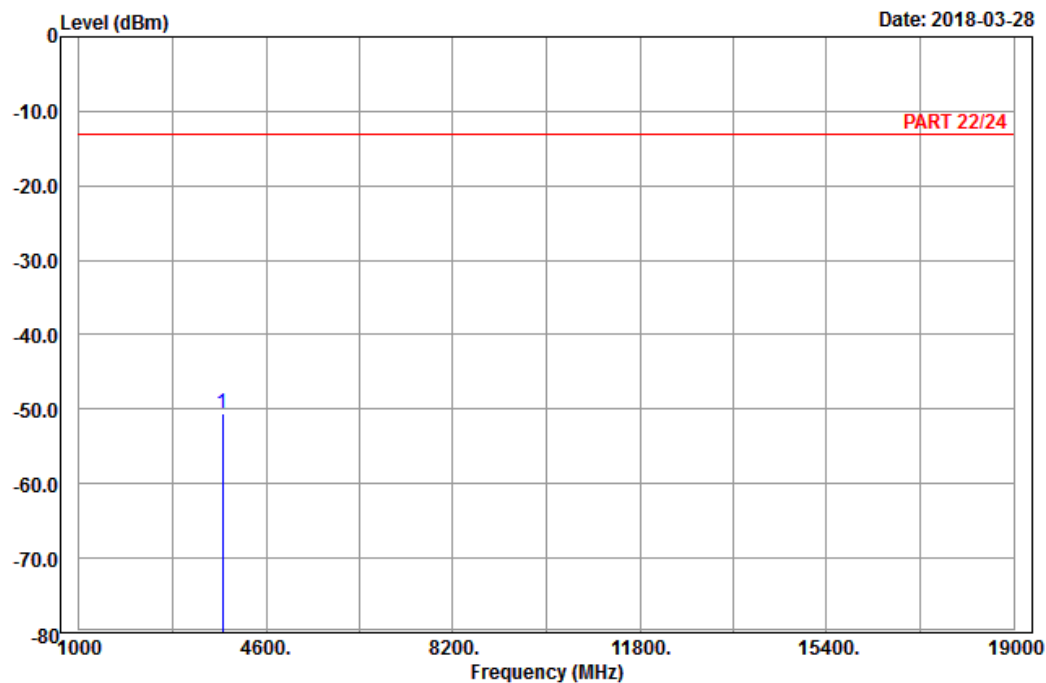


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.67	-66.81	-13.00	-37.67	16.14	Peak

High Channel

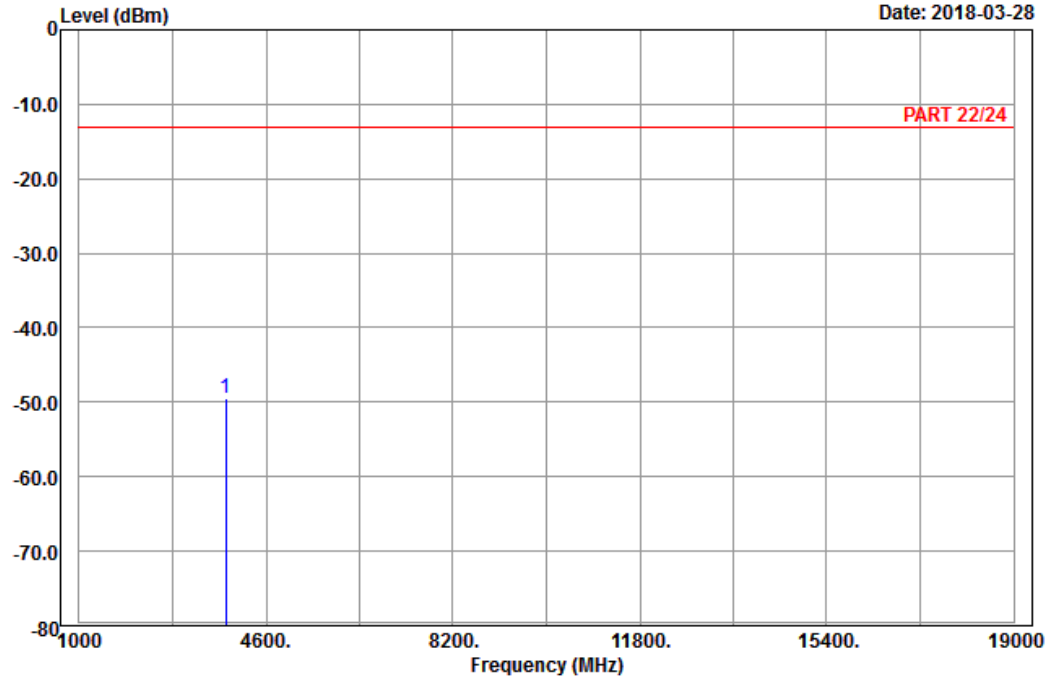


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH19193
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3818.60	-49.57	-66.07	-13.00	-36.57	16.50	Peak

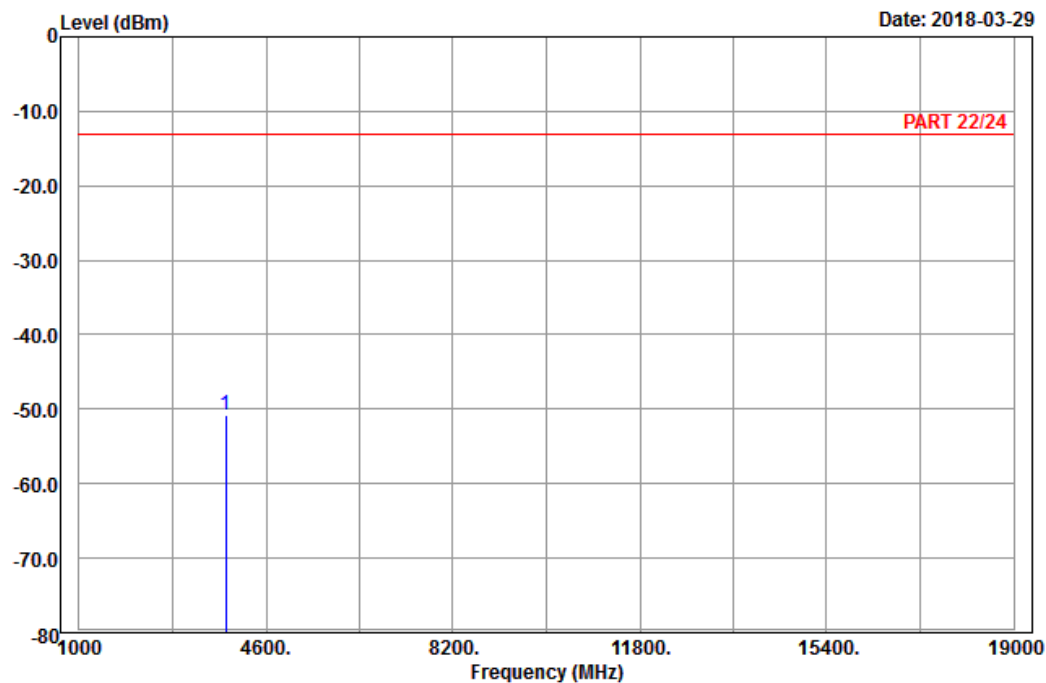


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-29



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH19193
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3818.60	-50.90	-67.40	-13.00	-37.90	16.50	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

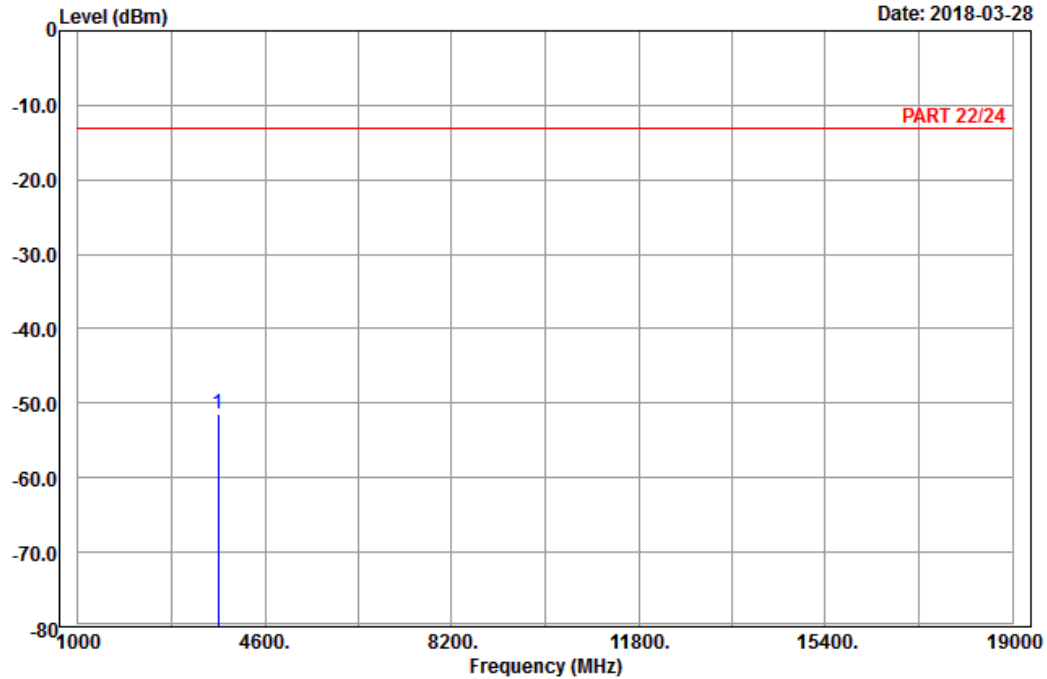


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18625
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-51.54	-67.42	-13.00	-38.54	15.88	Peak

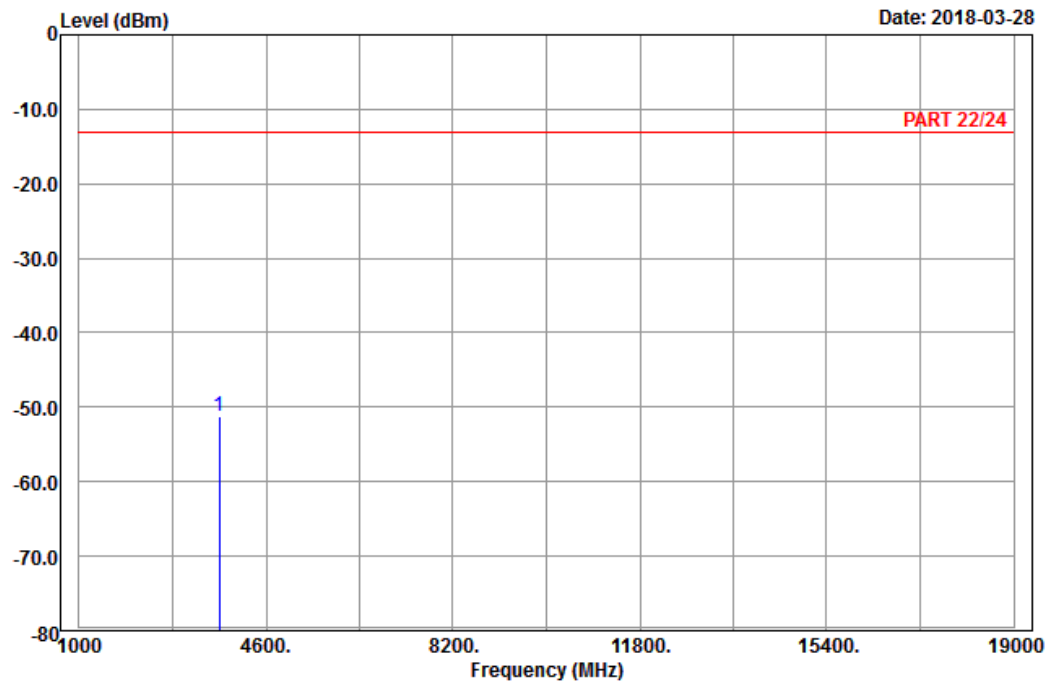


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18625
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-51.26	-67.14	-13.00	-38.26	15.88	Peak

Middle Channel

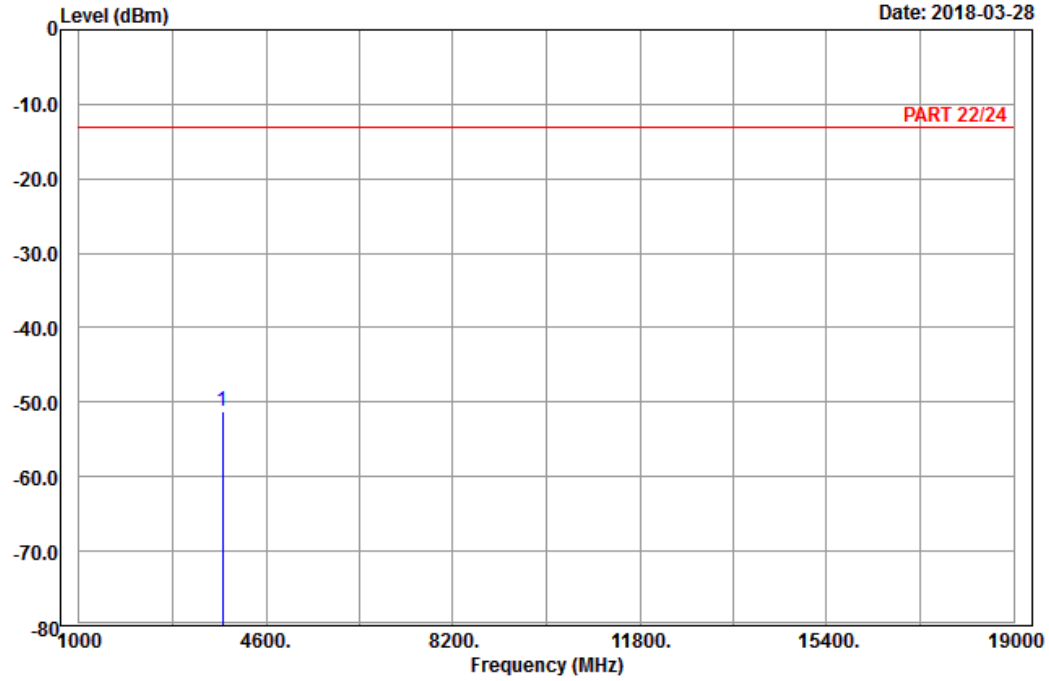


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-51.17	-67.31	-13.00	-38.17	16.14	Peak

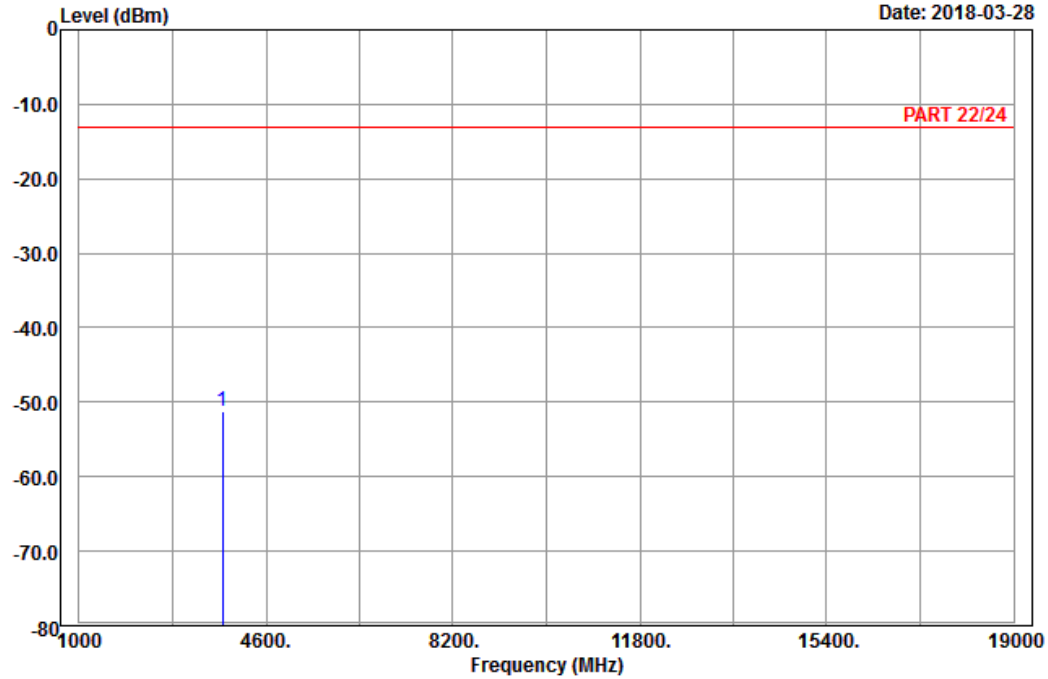


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-51.31	-67.45	-13.00	-38.31	16.14	Peak

High Channel

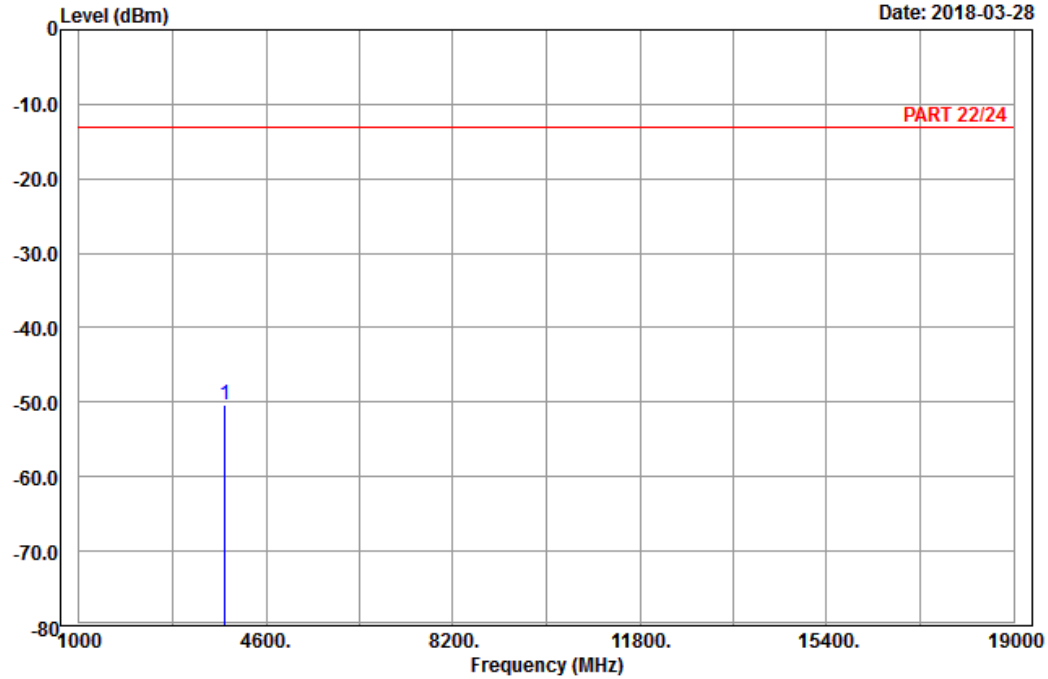


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.00	-50.36	-66.77	-13.00	-37.36	16.41	Peak

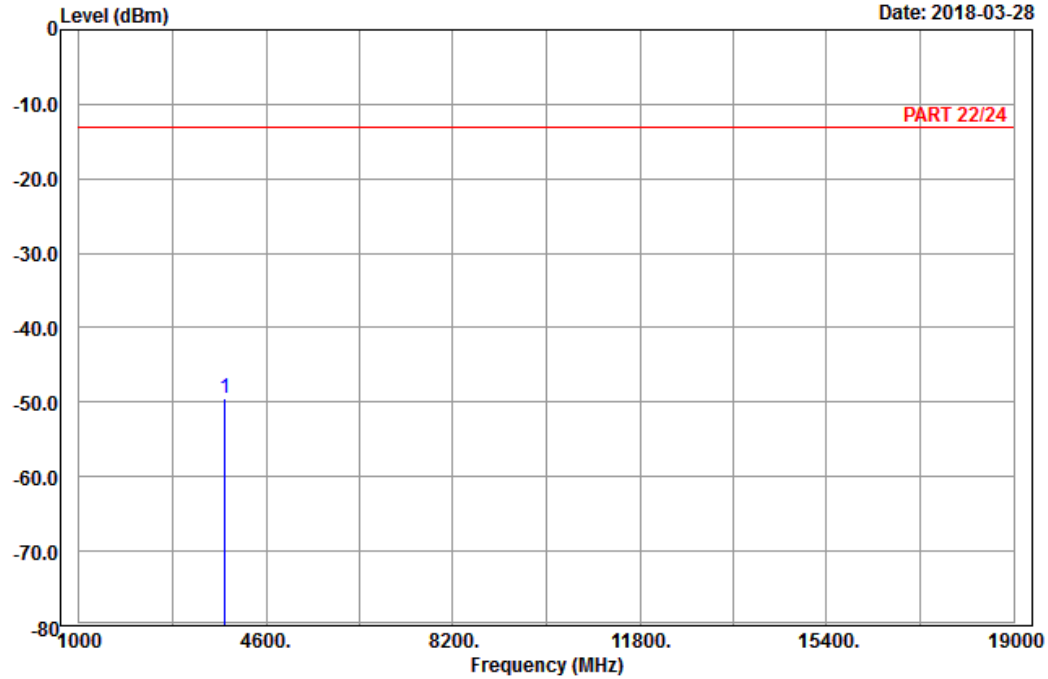


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.00	-49.43	-65.84	-13.00	-36.43	16.41	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

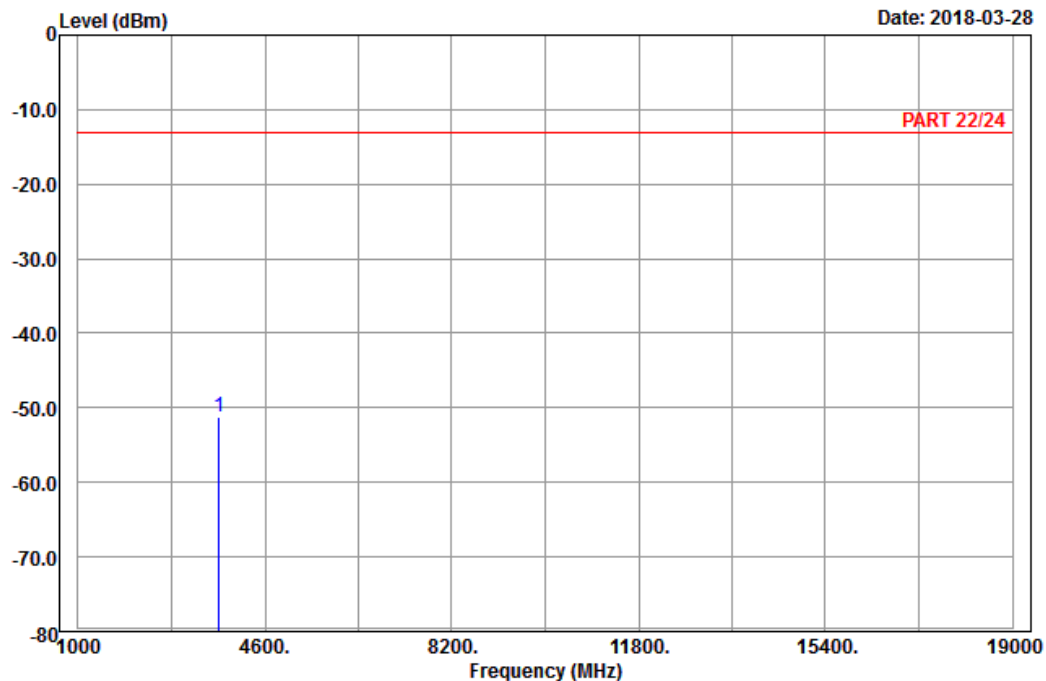


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18700
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-51.18	-67.15	-13.00	-38.18	15.97	Peak

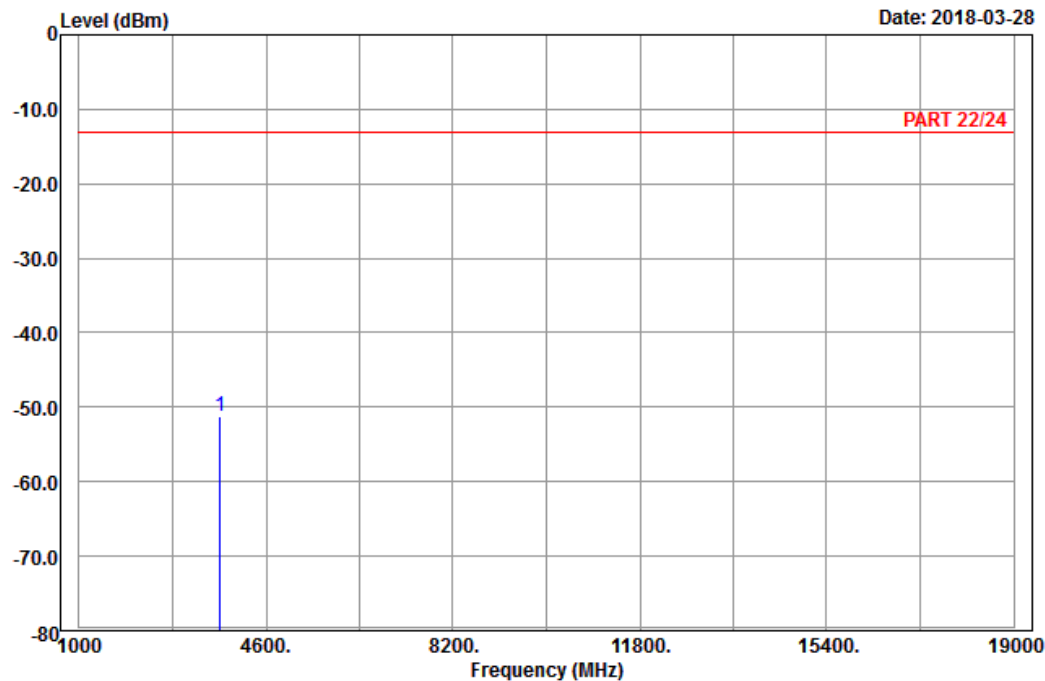


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18700
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-51.17	-67.14	-13.00	-38.17	15.97	Peak

Middle Channel

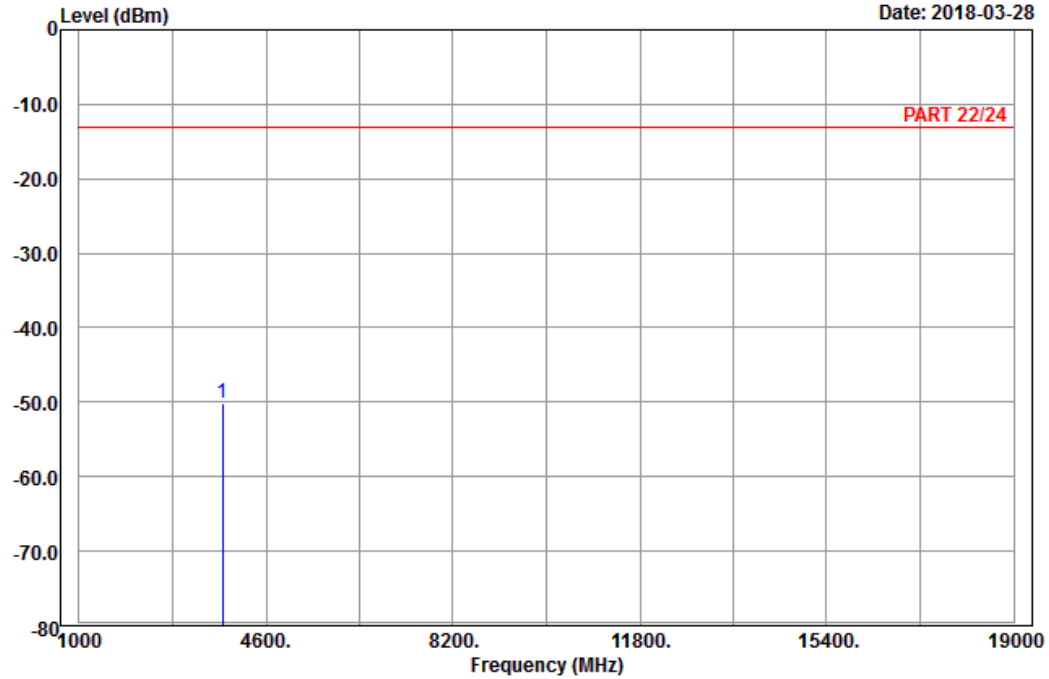


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.11	-66.25	-13.00	-37.11	16.14	Peak

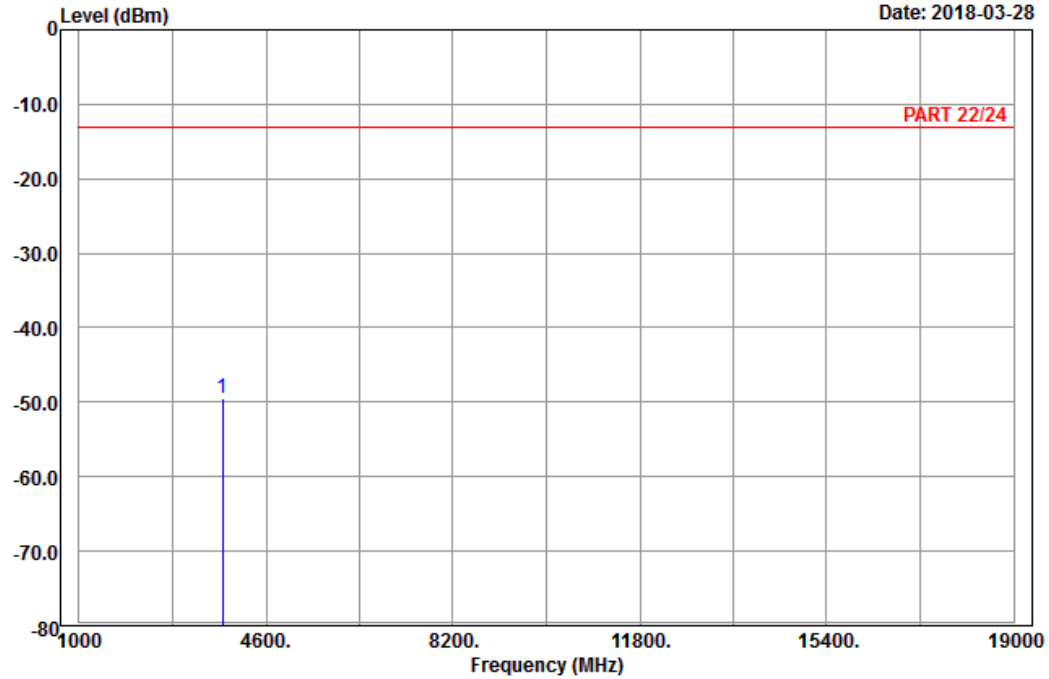


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-49.39	-65.53	-13.00	-36.39	16.14	Peak

High Channel

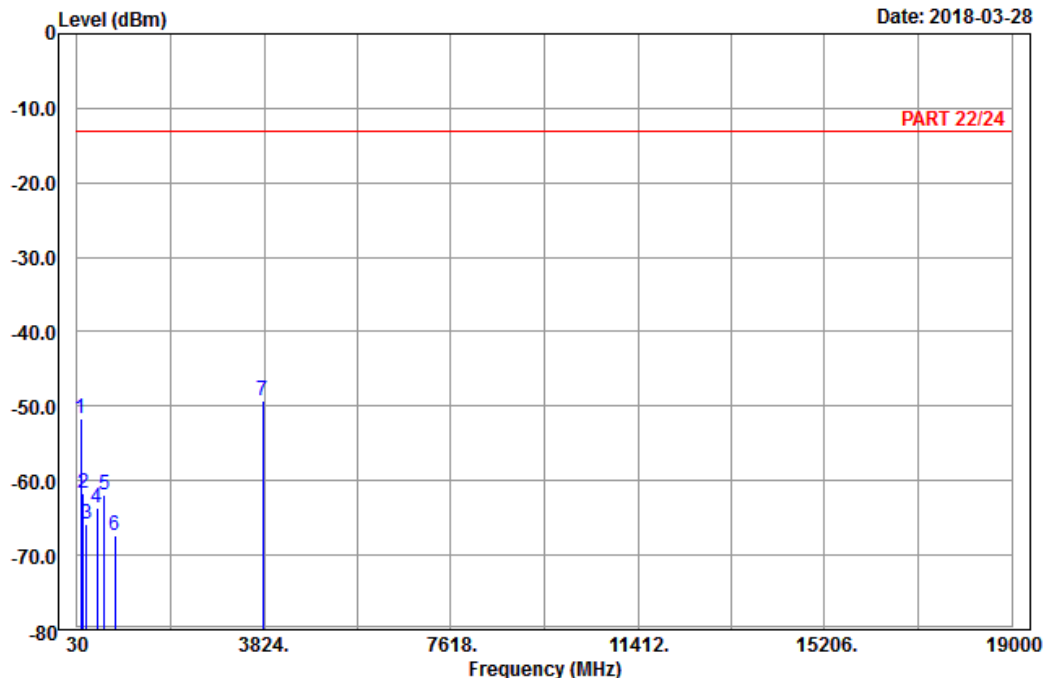


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH19100
Tested by: Karl Lee

			Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	105.87	-51.60	-42.18	-13.00	-38.60	-9.42	Peak
2	157.98	-61.64	-53.92	-13.00	-48.64	-7.72	Peak
3	219.00	-65.82	-59.90	-13.00	-52.82	-5.92	Peak
4	430.90	-63.64	-60.22	-13.00	-50.64	-3.42	Peak
5	588.40	-61.99	-61.94	-13.00	-48.99	-0.05	Peak
6	797.00	-67.42	-69.24	-13.00	-54.42	1.82	Peak
7 pp	3800.00	-49.17	-65.58	-13.00	-36.17	16.41	Peak

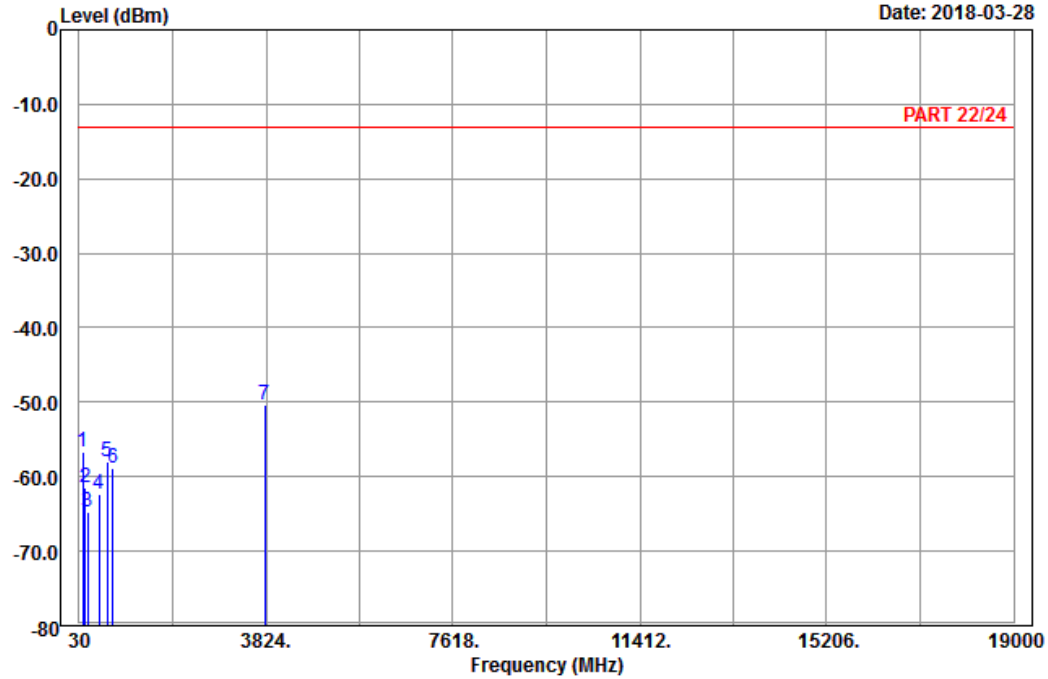


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2018-03-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH19100
Tested by: Karl Lee

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	106.95	-56.57	-47.27	-13.00	-43.57	-9.30	Peak
2	152.31	-61.47	-53.58	-13.00	-48.47	-7.89	Peak
3	195.51	-64.74	-58.74	-13.00	-51.74	-6.00	Peak
4	433.00	-62.31	-58.85	-13.00	-49.31	-3.46	Peak
5	594.70	-57.98	-58.17	-13.00	-44.98	0.19	Peak
6	710.90	-58.82	-58.24	-13.00	-45.82	-0.58	Peak
7 pp	3800.00	-50.42	-66.83	-13.00	-37.42	16.41	Peak

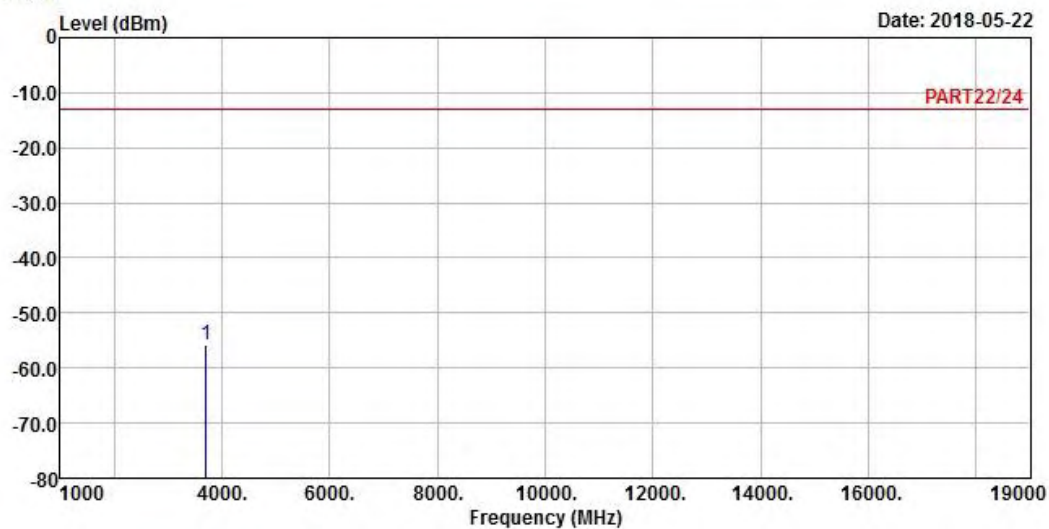
LTE Band 25
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 25 QPSK_5M Link_L-CH
Tested by: Jisyong Wang

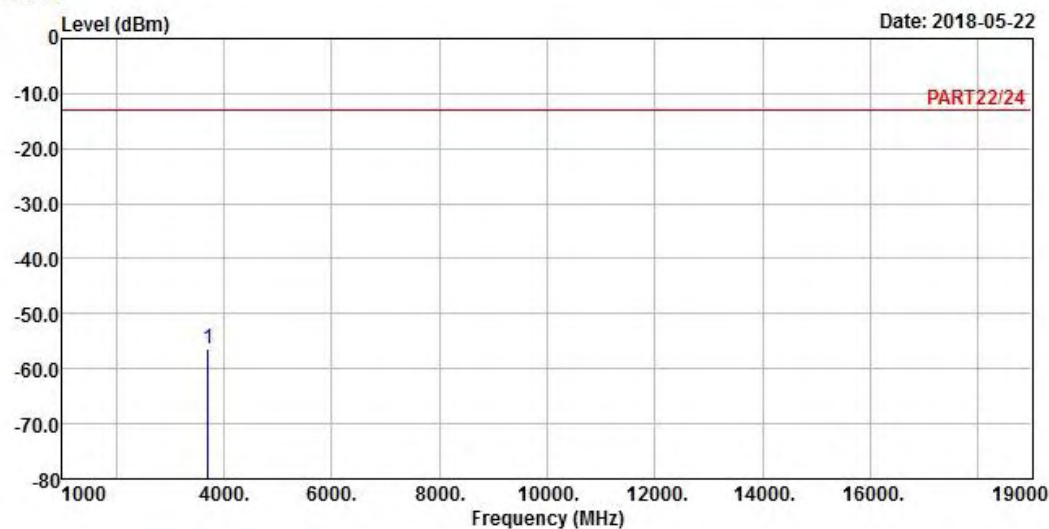
Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.76	-47.59	-13.00	-42.76	-8.17	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_5M Link_L-CH

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-56.50	-48.33	-13.00	-43.50	-8.17	Peak

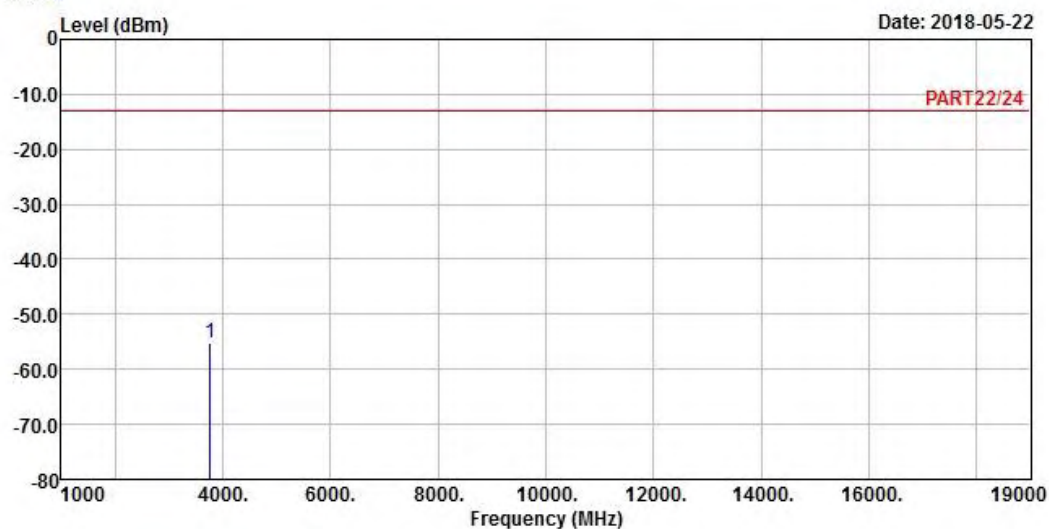
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 25 QPSK_5M Link_M-CH

Tested by: Jisyong Wang

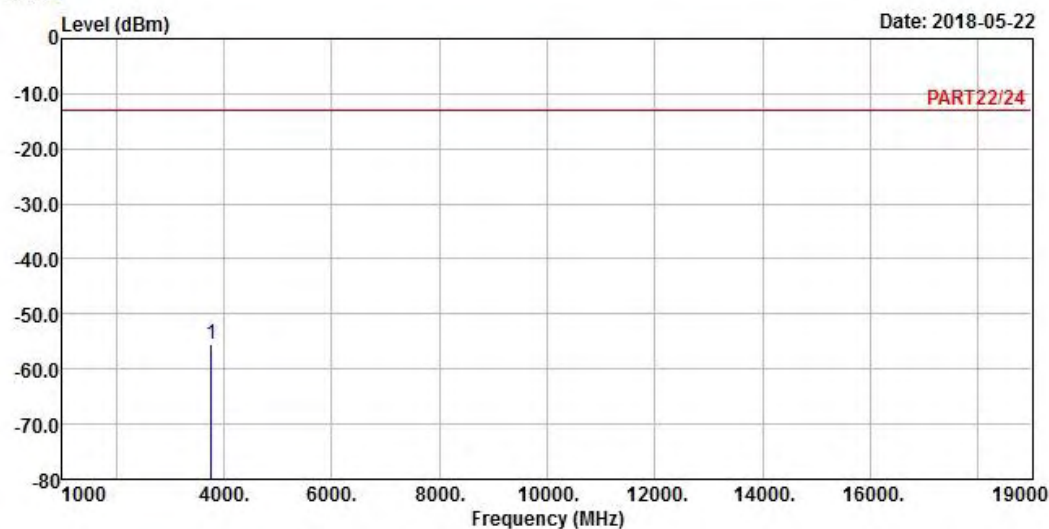
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-55.19	-47.22	-13.00	-42.19	-7.97	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_5M Link_M-CH

Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-55.42	-47.45	-13.00	-42.42	-7.97	Peak

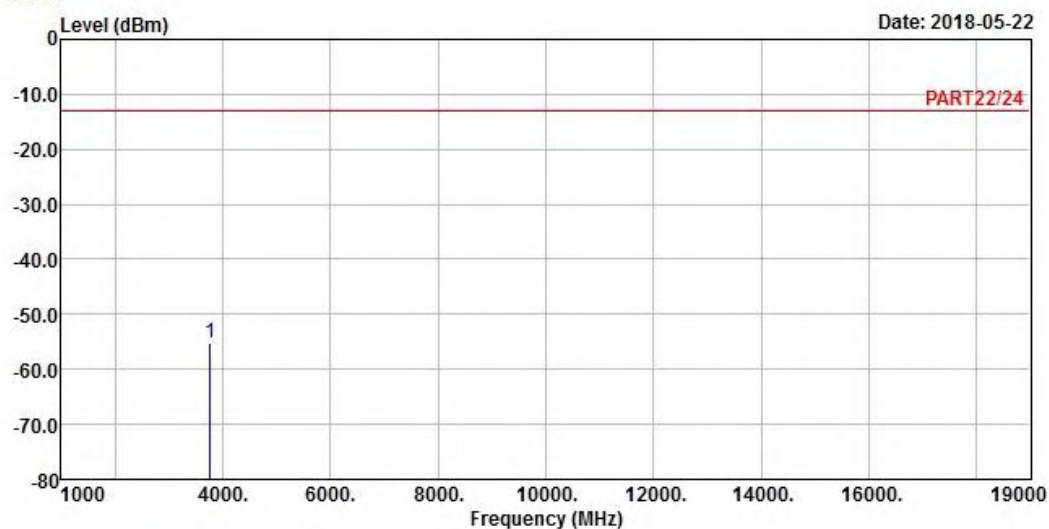
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 25 QPSK_5M Link_M-CH
Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-55.19	-47.22	-13.00	-42.19	-7.97	Peak

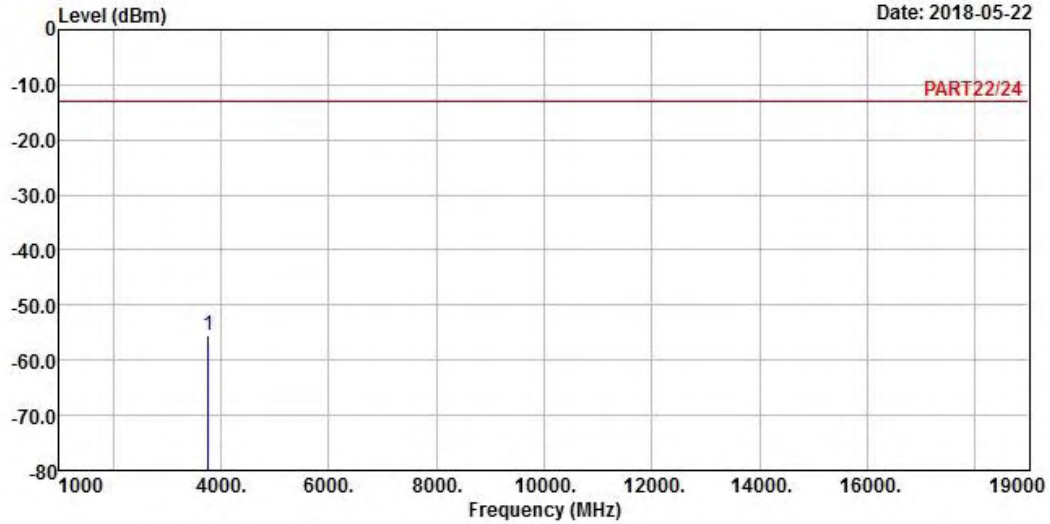


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2018-05-22



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_5M Link_M-CH

Tested by: Jisyong Wang

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

1 pp 3765.00 -55.42 -47.45 -13.00 -42.42 -7.97 Peak

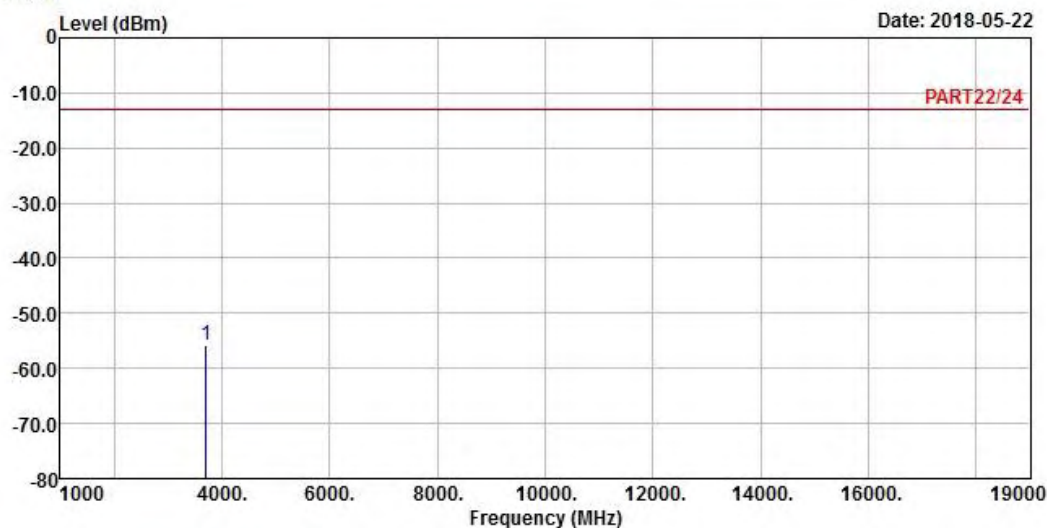
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 25 QPSK_5M Link_L-CH
Tested by: Jisyong Wang

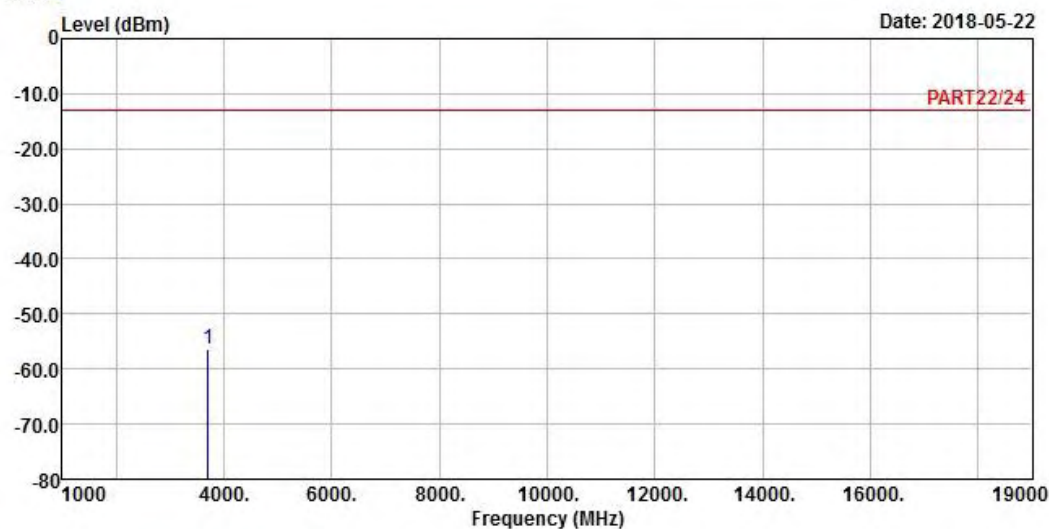
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.76	-47.59	-13.00	-42.76	-8.17	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_5M Link_L-CH

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-56.50	-48.33	-13.00	-43.50	-8.17	Peak

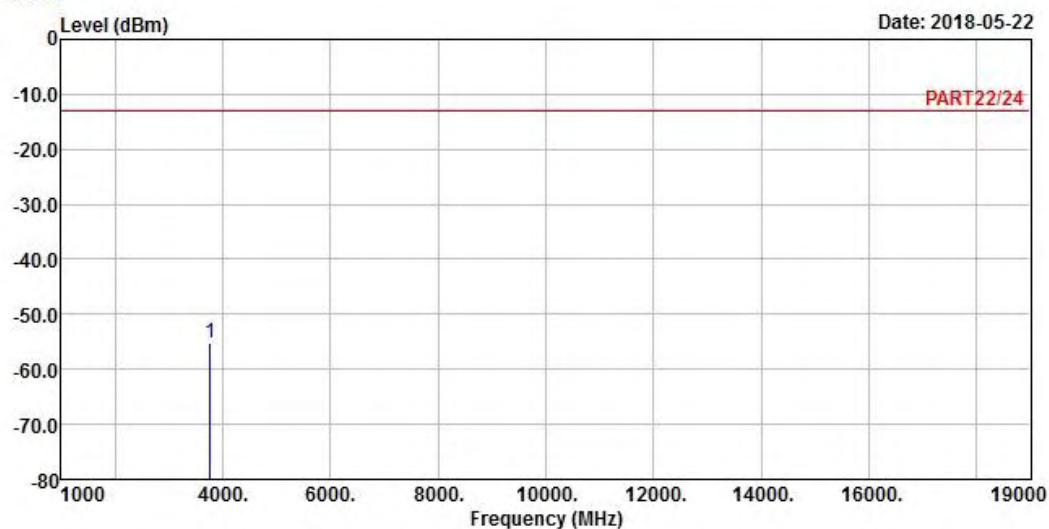
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 25 QPSK_5M Link_M-CH

Tested by: Jisyong Wang

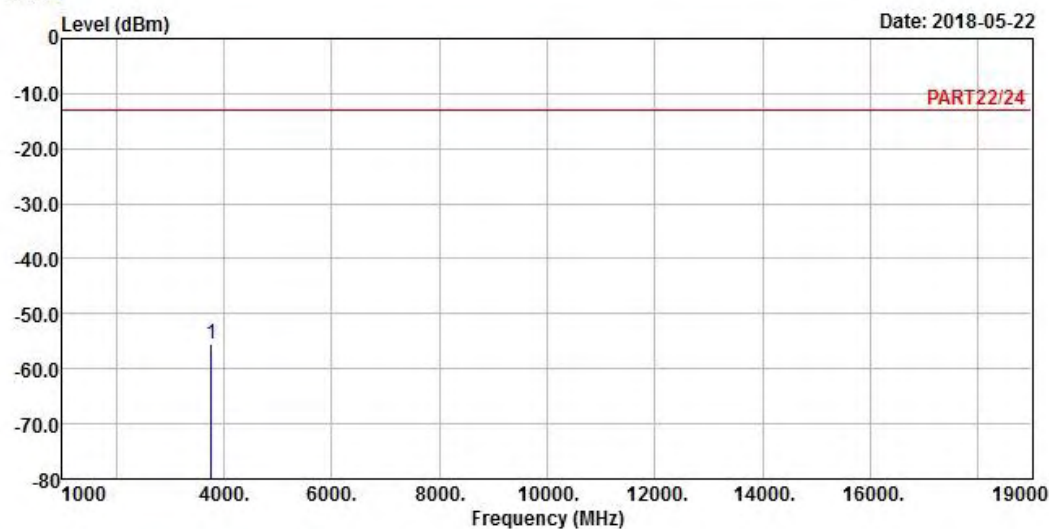
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-55.19	-47.22	-13.00	-42.19	-7.97	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_5M Link_M-CH

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-55.42	-47.45	-13.00	-42.42	-7.97	Peak

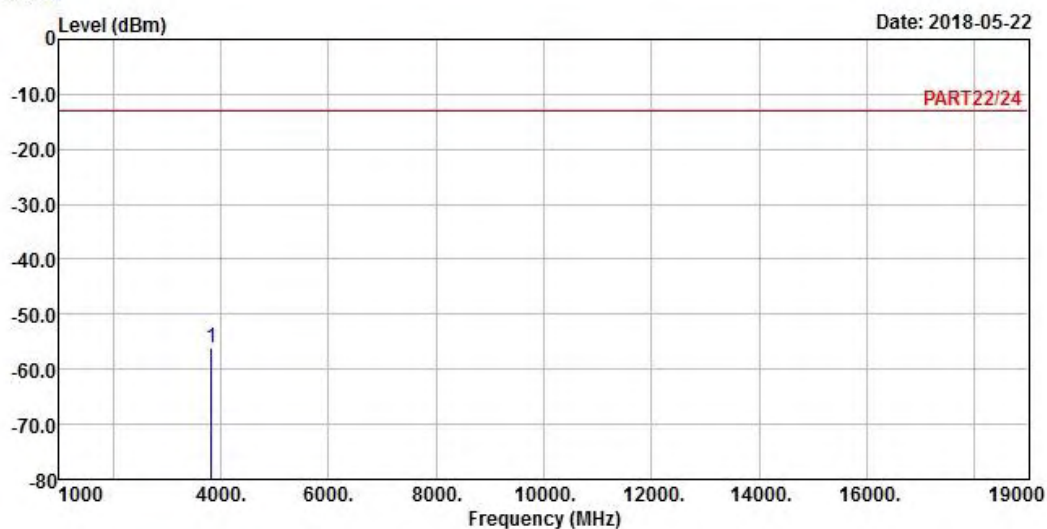
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 25 QPSK_5M Link_H-CH
Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3825.00	-56.15	-48.47	-13.00	-43.15	-7.68	Peak

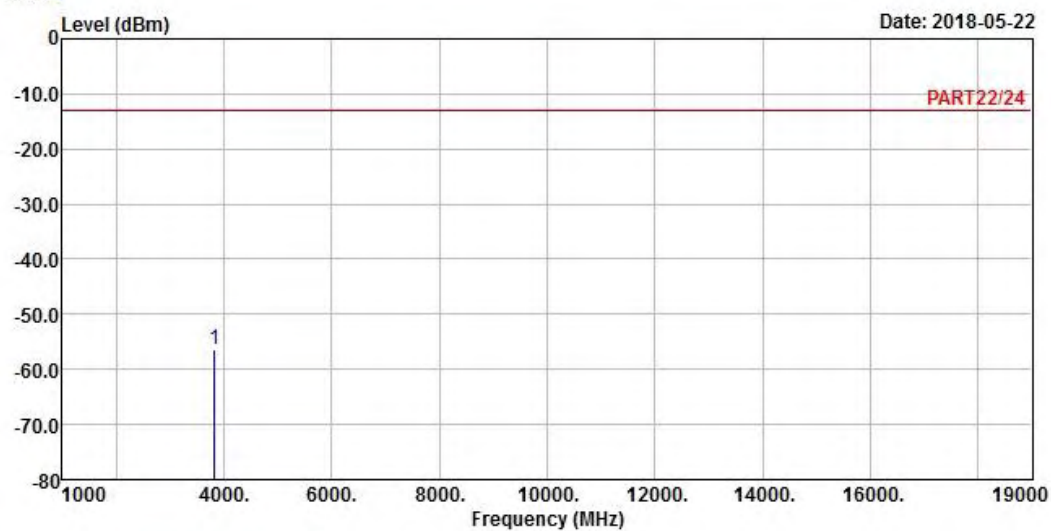


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2018-05-22



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_5M Link_H-CH

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over		Factor	Remark
		Level	Line	Limit	Limit		
MHz	dBm	dBm	dBm	dB	dB	dB	
1 pp 3825.00	-56.39	-48.71	-13.00	-43.39	-7.68		Peak

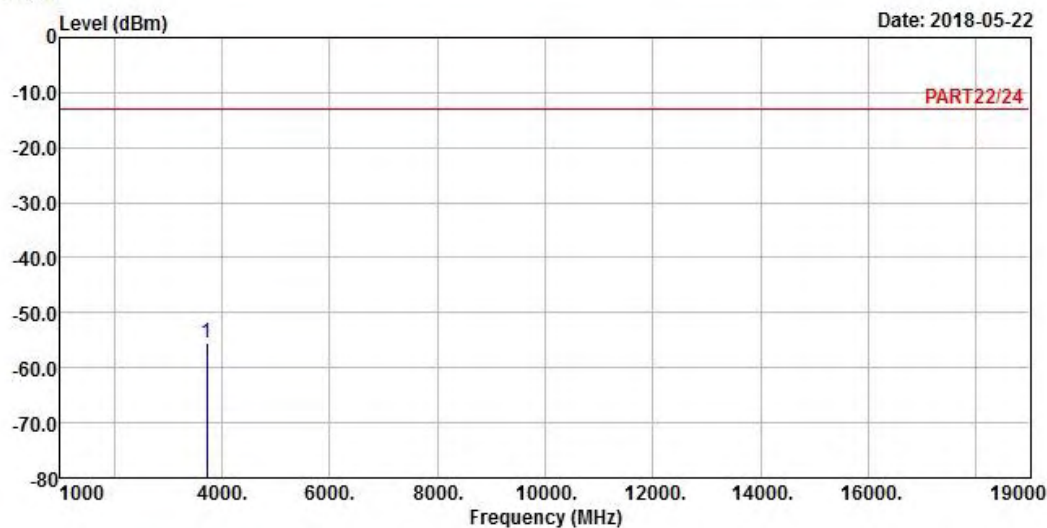
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 25 QPSK_20M Link_L-CH
Tested by: Jisyong Wang

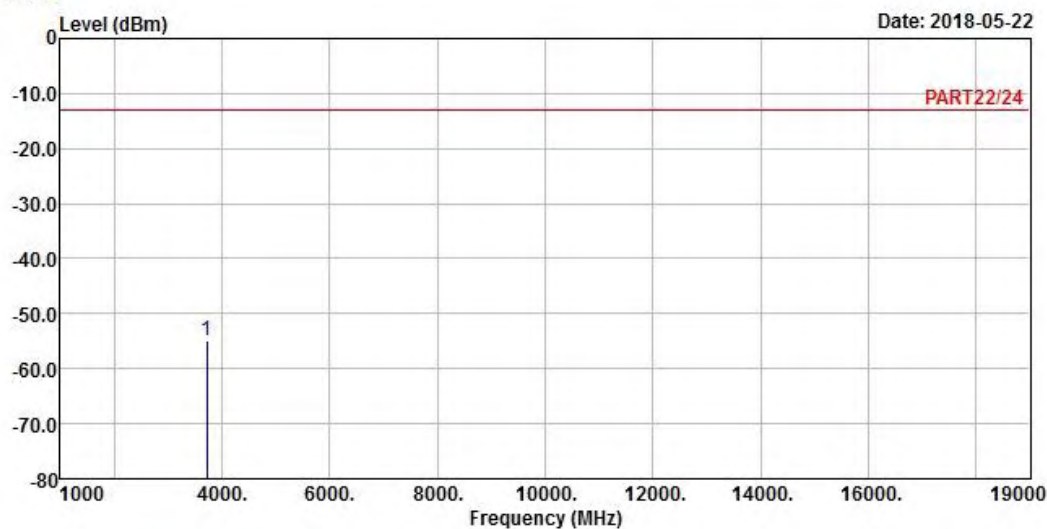
			Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1 pp 3720.00	-55.46	-47.33	-13.00	-42.46	-8.13	Peak	



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_20M Link_L-CH

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-54.91	-46.78	-13.00	-41.91	-8.13	Peak

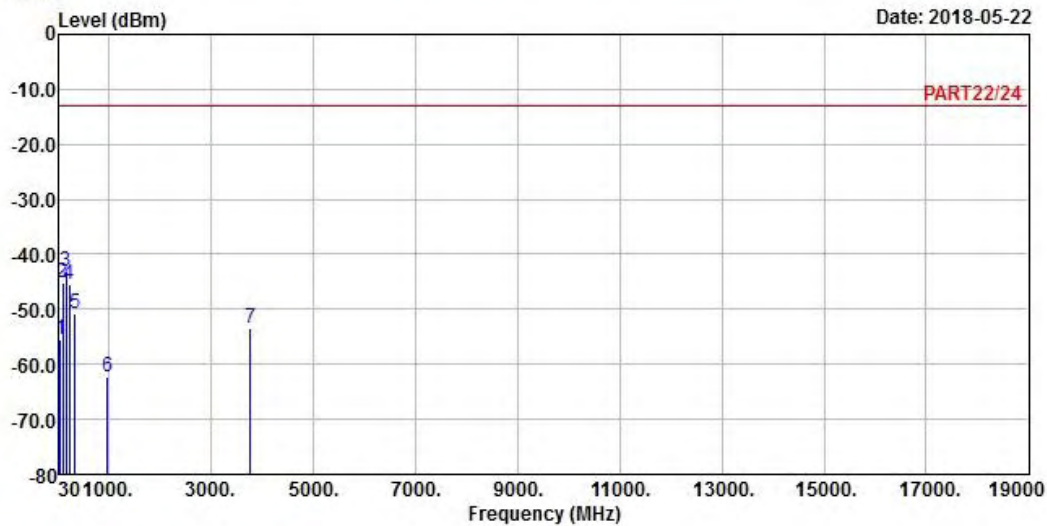
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 1
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 25 QPSK_20M Link_M-CH
 Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.77	-55.58	-54.11	-13.00	-42.58	-1.47	Peak
2	102.63	-45.15	-34.66	-13.00	-32.15	-10.49	Peak
3 pp	168.78	-43.13	-37.67	-13.00	-30.13	-5.46	Peak
4	221.16	-45.44	-38.28	-13.00	-32.44	-7.16	Peak
5	329.40	-50.82	-44.27	-13.00	-37.82	-6.55	Peak
6	972.00	-62.33	-64.92	-13.00	-49.33	2.59	Peak
7	3765.00	-53.49	-45.52	-13.00	-40.49	-7.97	Peak

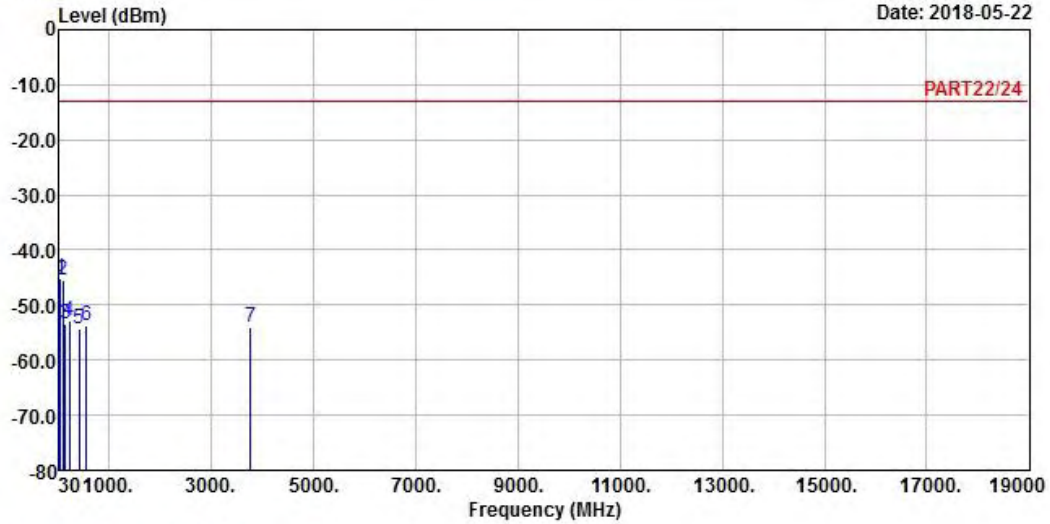


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2018-05-22



Site : 966 Chamber 1
Condition: PART22/24 VERTICAL
Remak : LTE Band 25 QPSK_20M Link_M-CH
Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.50	-45.29	-43.82	-13.00	-32.29	-1.47	Peak
2	102.36	-45.56	-35.07	-13.00	-32.56	-10.49	Peak
3	147.45	-53.38	-45.51	-13.00	-40.38	-7.87	Peak
4	220.89	-52.89	-45.73	-13.00	-39.89	-7.16	Peak
5	411.30	-54.27	-48.41	-13.00	-41.27	-5.86	Peak
6	566.00	-53.79	-51.63	-13.00	-40.79	-2.16	Peak
7	3765.00	-53.97	-46.00	-13.00	-40.97	-7.97	Peak

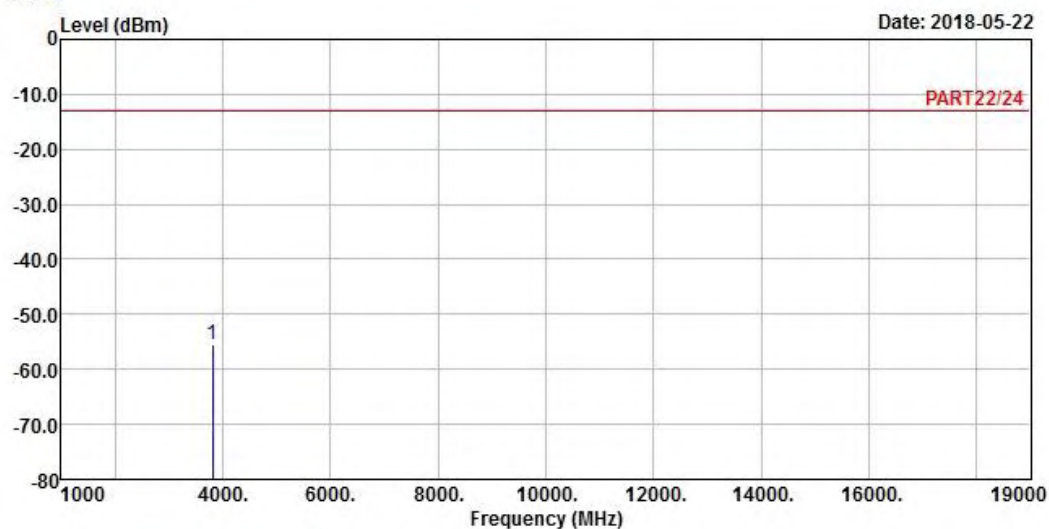
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 1
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 25 QPSK_20M Link_H-CH
Tested by: Jisyong Wang

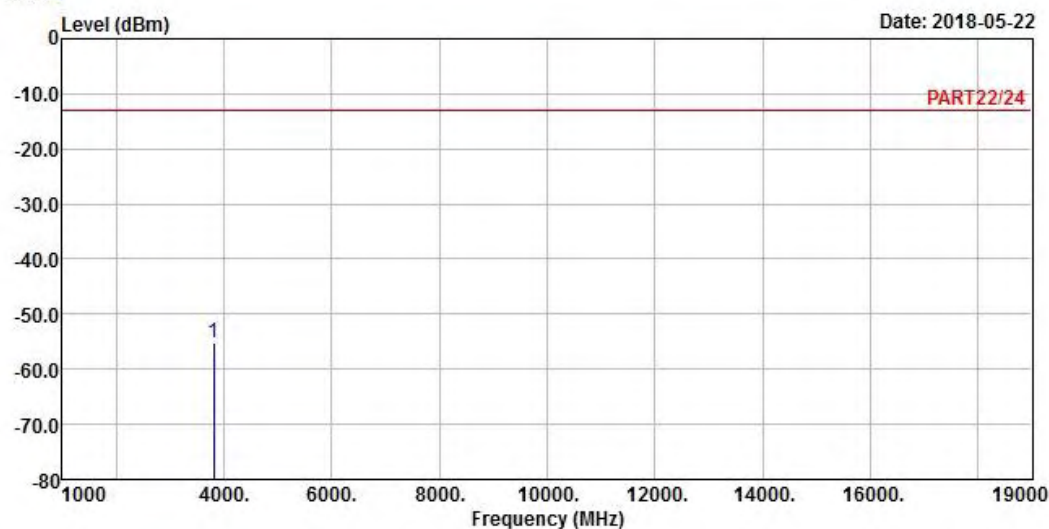
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3810.00	-55.46	-47.68	-13.00	-42.46	-7.78	Peak



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 1

Condition: PART22/24 VERTICAL

Remak : LTE Band 25 QPSK_20M Link_H-CH

Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3810.00	-55.13	-47.35	-13.00	-42.13	-7.78	Peak

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

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Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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