

FCC Test Report (Part 24: LTE Band 25)

Report No.: RF181129D01-1

FCC ID: P27-SRE4105T

Test Model: SRE4105T-B41

Series Model: SRE4105Txxxxxx
(1st x should be "blank" or "-", the rest x should be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose.)

Received Date: Nov. 29, 2018

Test Date: Dec. 27, 2018 ~ Jan. 21, 2019

Issued Date: Jan. 23, 2019

Applicant: Sercomm Corp.

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

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**FCC Registration /
Designation Number:** 198487 / TW2021



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Release Control Record

Issue No.	Description	Date Issued
RF181129D01-1	Original release	Jan. 23, 2019

1 Certificate of Conformity

Product: SOHO Magic Box

Brand: Sprint

Test Model: SRE4105T-B41

Series Model: SRE4105Txxxxxx
(1st x should be "blank" or "-", the rest x should be 0 to 9, A to Z, a to z,
"blank" or "-", for marketing purpose.)

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: Dec. 27, 2018 ~ Jan. 21, 2019

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 : Annie Chang, **Date:** Jan. 23, 2019
Annie Chang / Senior Specialist

Approved by : Rex Lai, **Date:** Jan. 23, 2019
Rex Lai / Associate Technical Manager

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective radiated power	Pass	Meet the requirement of limit.
2.1046 24.232(d)	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1047	Modulation characteristics	PASS	Meet the requirement
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 -24.12dB at 3765.73MHz.

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.38 dB
	30MHz ~ 1000MHz	5.54 dB
Radiated Emissions above 1 GHz	Above 1GHz	5.48 dB

2.2 Test Site and Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 21, 2018	Feb. 20, 2019
HP Preamplifier	8449B	3008A01201	Feb. 22, 2018	Feb. 21, 2019
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 21, 2018	Feb. 20, 2019
Agilent TEST RECEIVER	N9038A	MY51210129	Feb. 6, 2018	Feb. 5, 2019
Schwarzbeck Antenna	VULB 9168	139	Nov. 26, 2018	Nov. 25, 2019
Schwarzbeck Antenna	VHBA 9123	480	May 19, 2017	May 18, 2019
Schwarzbeck Horn Antenna	BBHA-9170	212	Nov. 25, 2018	Nov. 24, 2019
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Nov. 25, 2018	Nov. 24, 2019
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF102	Cable-CH6-01	Aug. 13, 2018	Aug. 12, 2019
SUHNER RF cable With 3/4dB PAD	SF102	Cable-CH8-3.6m	Aug. 13, 2018	Aug. 12, 2019
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 4, 2018	Jun. 3, 2019
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Aug. 3, 2018	Aug. 2, 2019
Loop Antenna EMCI	LPA600	270	Aug. 11, 2017	Aug. 10, 2019
EMCO Horn Antenna	3115	00028257	Nov. 25, 2018	Nov. 24, 2019
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 27, 2018	Sep. 26, 2019
Anritsu Power Sensor	MA2411B	0738404	Apr. 26, 2018	Apr. 25, 2019
Anritsu Power Meter	ML2495A	0842014	Apr. 26, 2018	Apr. 25, 2019
Anritsu Radio Communication Analyzer	MT8820C	6201300638	Jun. 27, 2018	Jun. 8, 2019

- 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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Chamber No. 6.
4. The Industry Canada Reference No. IC 7450E-6.

3 General Information

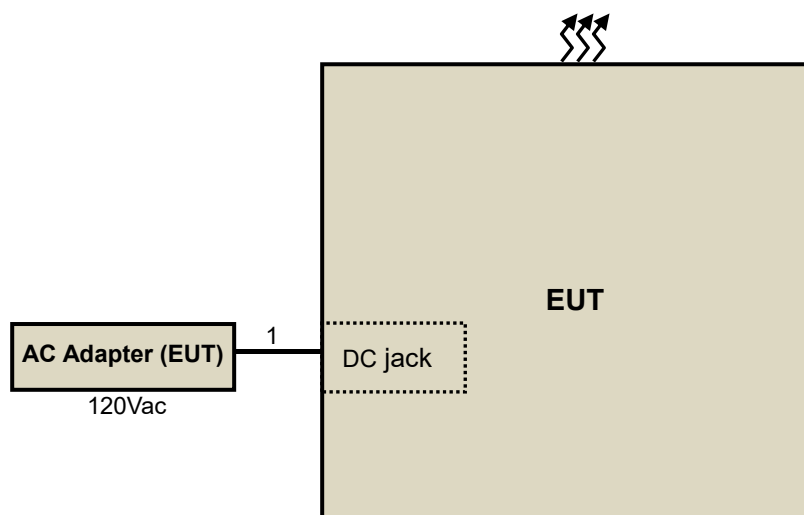
3.1 General Description of EUT

Product	SOHO Magic Box
Brand	Sprint
Test Model	SRE4105T-B41
Series Model	SRE4105Txxxxxx (1st x should be "blank" or "-", the rest x should be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose.)
Model Difference	For marketing purpose
Sample Status	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	QPSK, 16QAM, 64QAM
Operating Frequency	LTE Band 25 (Channel Bandwidth 5MHz): 1852.5 ~1912.5MHz LTE Band 25 (Channel Bandwidth 10MHz): 1855 ~ 1910MHz
Max. EIRP Power	LTE Band 25 (Channel Bandwidth 5MHz): 901.571mW (29.55dBm) LTE Band 25 (Channel Bandwidth 10MHz): 937.562mW (29.72Bm)
Antenna Type	Ant. 2: Dipole antenna with 5.16dBi gain Ant. 8: Dipole antenna with 5.69dBi gain
Antenna Connector	I-PEX
Accessory Device	Refer to user's manual
Data Cable Supplied	N/A

Note: The EUT uses following adapter.

Brand	APD
Model	WA-30P12FU
AC Input Power	100-240V, 50-60Hz, 0.9A
DC Output Power	12V, 2.5A
Power Line	Non-shielded DC cable (2.0m)

3.2 Configuration of System under Test



3.2.1 Description of Support Units

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC cable	1	2.0	N	0	Supplied by client

Note: The core(s) is(are) originally attached to the cable(s).

3.3 Test Mode Applicability and Tested Channel Detail

Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
EIRP	26065 to 26665	26065(1852.5MHz), 26365(1882.5MHz), 26665(1912.5MHz)	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
	26090 to 26640	26090(1855MHz), 26365(1882.5MHz), 26640(1910MHz)	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
Modulation characteristics	26065 to 26665	26065(1852.5MHz)	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
Frequency Stability	26065 to 26665	26065(1852.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
Occupied Bandwidth	26065 to 26665	26065(1852.5MHz), 26365(1882.5MHz), 26665(1912.5MHz)	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
	26090 to 26640	26090(1855MHz), 26365(1882.5MHz), 26640(1910 MHz)	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
Band Edge	26065 to 26665	26065(1852.5MHz), 26665(1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset
	26090 to 26640	26090(1855MHz), 26640(1910MHz)	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset
Peak to Average Ratio	26065 to 26665	26065(1852.5MHz), 26365(1882.5MHz), 26665(1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090(1855MHz), 26365(1882.5MHz), 26640(1910MHz)	10MHz	QPSK	1 RB / 0 RB Offset
Conducted Emission	26065 to 26665	26065(1852.5MHz), 26365(1882.5MHz), 26665(1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090(1855MHz), 26365(1882.5MHz), 26640(1910MHz)	10MHz	QPSK	1 RB / 0 RB Offset
Radiated Emission Below 1GHz	26065 to 26665	26065(1852.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26640(1910MHz)	10MHz	QPSK	1 RB / 0 RB Offset
Radiated Emission Above 1GHz	26065 to 26665	26065(1852.5MHz), 26365(1882.5MHz), 26665(1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090(1855MHz), 26365(1882.5MHz), 26640(1910MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note: The conducted output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than other mode. Therefore, only EIRP, Modulation characteristics and occupied bandwidth items had been tested under QPSK, 16QAM and 64QAM modes, the other test items were performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25deg. C, 74%RH	120Vac, 60Hz	Dalen Dai
Modulation characteristics	25deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
Frequency Stability	25deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
Occupied Bandwidth	25deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
Band Edge	25deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
Peak To Average Ratio	25deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
Conducted Emission	25deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
Radiated Emission	18deg. C, 78%RH	120Vac, 60Hz	Starlitaly Wu

3.4 EUT Operating Conditions

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

3.5 General Description of Applied Standards

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

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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:

- All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10MHz for LTE mode.
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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
- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

Where:

$$\text{ERP/EIRP} = P_{\text{Meas}} + G_T - L_C$$

P_{Meas} : Measure transmitter output power.

G_T : Gain of the transmitting antenna.

L_C : signal attenuation in the connecting cable between the transmitter and antenna.

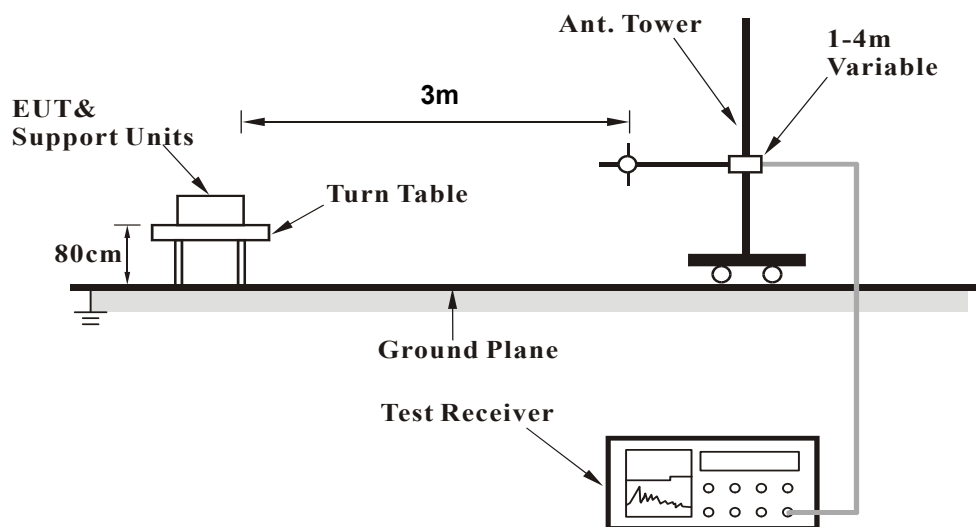
Conducted Power Measurement:

The EUT was set up for the maximum power with 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.

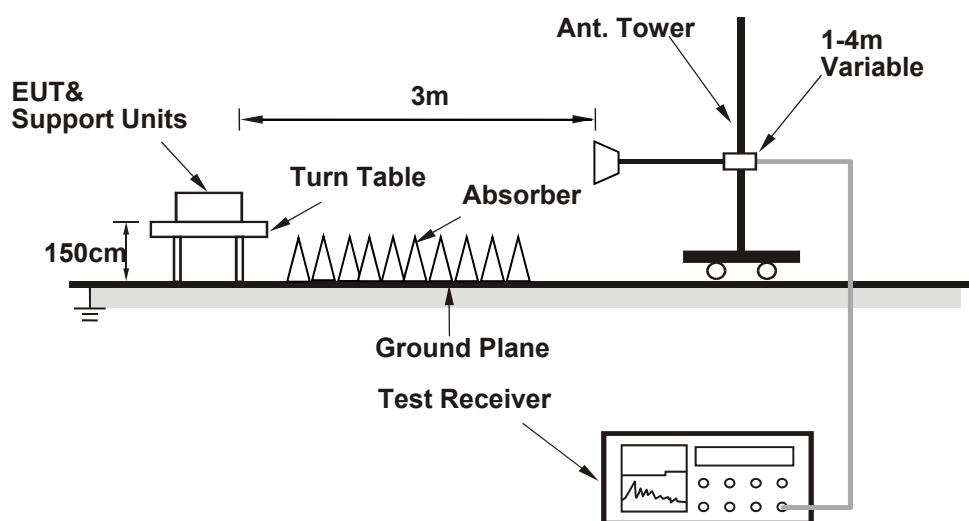
4.1.3 Test Setup

EIRP / ERP Measurement:

For Radiated Emission below or equal 1GHz



For Radiated Emission above 1GHz



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

Conducted Power Measurement:



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

4.1.4 Test Results

Conducted Output Power (dBm)

LTE Band 25												
BW	MCS Index	RB Size	RB Offset	Low			Mid			High		
		Channel		26065			26365			26665		
		Frequency (MHz)		1852.5			1882.5			1912.5		
		Antenna Part		Chain 0	Chain 1	Total	Chain 0	Chain 1	Total	Chain 0	Chain 1	Total
5M	QPSK	1	0	19.63	19.62	22.64	19.69	19.64	22.68	19.55	19.64	22.61
		1	12	19.58	19.58	22.59	19.60	19.68	22.65	19.56	19.55	22.57
		1	24	19.58	19.66	22.63	19.61	19.63	22.63	19.56	19.61	22.60
		12	0	19.46	19.50	22.49	19.46	19.52	22.50	19.60	19.59	22.61
		12	6	19.54	19.49	22.53	19.52	19.55	22.55	19.51	19.54	22.54
		12	13	19.52	19.53	22.54	19.57	19.60	22.60	19.49	19.59	22.55
		25	0	19.59	19.58	22.60	19.68	19.64	22.67	19.54	19.60	22.58
	16QAM	1	0	19.46	19.43	22.46	19.47	19.53	22.51	19.44	19.46	22.46
		1	12	19.44	19.46	22.46	19.47	19.50	22.50	19.37	19.43	22.41
		1	24	19.38	19.47	22.44	19.41	19.46	22.45	19.39	19.44	22.43
		12	0	19.31	19.36	22.35	19.38	19.36	22.38	19.35	19.43	22.40
		12	6	19.36	19.35	22.37	19.40	19.42	22.42	19.37	19.38	22.39
		12	13	19.27	19.35	22.32	19.37	19.40	22.40	19.42	19.41	22.43
		25	0	19.36	19.45	22.42	19.46	19.51	22.50	19.39	19.45	22.43
	64QAM	1	0	19.37	19.42	22.41	19.39	19.45	22.43	19.37	19.45	22.42
		1	12	19.32	19.40	22.37	19.35	19.42	22.40	19.35	19.32	22.35
		1	24	19.36	19.38	22.38	19.41	19.43	22.43	19.33	19.36	22.36
		12	0	19.18	19.25	22.23	19.28	19.34	22.32	19.31	19.43	22.38
		12	6	19.26	19.27	22.28	19.29	19.31	22.31	19.27	19.32	22.31
		12	13	19.19	19.26	22.24	19.31	19.32	22.33	19.29	19.38	22.35
		25	0	19.38	19.39	22.40	19.39	19.41	22.41	19.34	19.43	22.40

LTE Band 25												
BW	MCS Index	RB Size	RB Offset	Low			Mid			High		
		Channel		26090			26365			26640		
		Frequency (MHz)		1855.0			1882.5			1910.0		
		Antenna Part		Chain 0	Chain 1	Total	Chain 0	Chain 1	Total	Chain 0	Chain 1	Total
10M	QPSK	1	0	19.55	19.62	22.60	19.60	19.62	22.62	19.53	19.54	22.55
		1	24	19.55	19.53	22.55	19.55	19.59	22.58	19.46	19.54	22.51
		1	49	19.54	19.58	22.57	19.60	19.55	22.59	19.49	19.54	22.53
		25	0	19.48	19.54	22.52	19.51	19.58	22.56	19.45	19.51	22.49
		25	12	19.46	19.53	22.51	19.48	19.51	22.51	19.49	19.47	22.49
		25	25	19.47	19.52	22.51	19.53	19.54	22.55	19.47	19.51	22.50
		50	0	19.48	19.55	22.53	19.53	19.63	22.59	19.45	19.54	22.51
	16QAM	1	0	19.37	19.45	22.42	19.46	19.50	22.49	19.36	19.38	22.38
		1	24	19.38	19.35	22.38	19.38	19.40	22.40	19.29	19.38	22.35
		1	49	19.34	19.45	22.41	19.36	19.54	22.46	19.31	19.39	22.36
		25	0	19.36	19.42	22.40	19.35	19.40	22.39	19.28	19.36	22.33
		25	12	19.31	19.39	22.36	19.37	19.43	22.41	19.33	19.36	22.36
		25	25	19.37	19.42	22.41	19.38	19.39	22.40	19.34	19.36	22.36
		50	0	19.44	19.48	22.47	19.44	19.45	22.46	19.32	19.35	22.35
	64QAM	1	0	19.41	19.44	22.44	19.34	19.41	22.39	19.29	19.37	22.34
		1	24	19.29	19.33	22.32	19.29	19.38	22.35	19.24	19.31	22.29
		1	49	19.39	19.39	22.40	19.36	19.38	22.38	19.32	19.31	22.33
		25	0	19.27	19.34	22.32	19.28	19.35	22.33	19.21	19.29	22.26
		25	12	19.28	19.32	22.31	19.30	19.35	22.34	19.26	19.29	22.29
		25	25	19.38	19.37	22.39	19.33	19.36	22.36	19.27	19.31	22.30
		50	0	19.40	19.41	22.42	19.34	19.36	22.36	19.28	19.29	22.30

EIRP Power (dBm)

Modulation Type: QPSK

LTE Band 25, Channel Bandwidth: 5MHz

MODE		TX channel 26065					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	27.47	-8.76	38.31	29.55	33.00	-3.45

MODE		TX channel 26365					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	26.51	-9.17	38.48	29.31	33.00	-3.69

MODE		TX channel 26665					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1912.50	26.05	-9.43	38.67	29.24	33.00	-3.76

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth: 10MHz

MODE		TX channel 26090					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	27.28	-8.90	38.32	29.42	33.00	-3.58

MODE		TX channel 26365					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	26.39	-9.29	38.48	29.19	33.00	-3.81

MODE		TX channel 26640					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1910.00	26.52	-8.93	38.65	29.72	33.00	-3.28

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 16QAM

LTE Band 25, Channel Bandwidth: 5MHz

MODE		TX channel 26065					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	27.36	-8.87	38.31	29.44	33.00	-3.56

MODE		TX channel 26365					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	26.39	-9.29	38.48	29.19	33.00	-3.81

MODE		TX channel 26665					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1912.50	25.93	-9.55	38.67	29.12	33.00	-3.88

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth: 10MHz

MODE		TX channel 26090					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	27.16	-9.02	38.32	29.30	33.00	-3.70

MODE		TX channel 26365					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	26.25	-9.43	38.48	29.05	33.00	-3.95

MODE		TX channel 26640					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1910.00	26.41	-9.04	38.65	29.61	33.00	-3.39

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 64QAM

LTE Band 25, Channel Bandwidth: 5MHz

MODE		TX channel 26065					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	27.28	-8.95	38.31	29.36	33.00	-3.64

MODE		TX channel 26365					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	26.15	-9.53	38.48	28.95	33.00	-4.05

MODE		TX channel 26665					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1912.50	25.65	-9.83	38.67	28.84	33.00	-4.16

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth: 10MHz

MODE		TX channel 26090					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	27.10	-9.08	38.32	29.24	33.00	-3.76

MODE		TX channel 26365					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	26.18	-9.50	38.48	28.98	33.00	-4.02

MODE		TX channel 26640					
Test Distance: 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1910.00	26.29	-9.16	38.65	29.49	33.00	-3.51

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

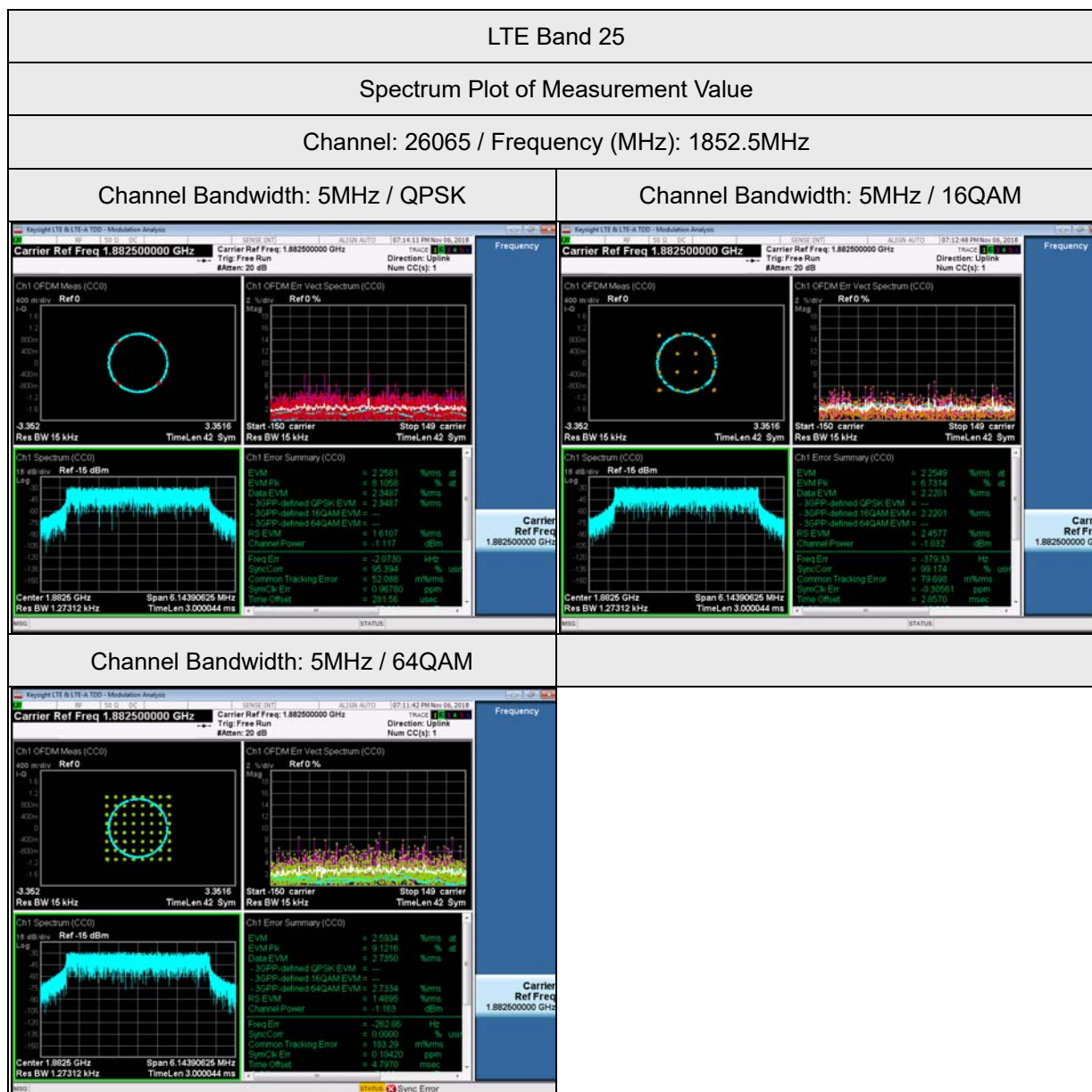
4.2.2 Test Procedure

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

4.2.3 Test Setup



4.2.4 Test Results



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

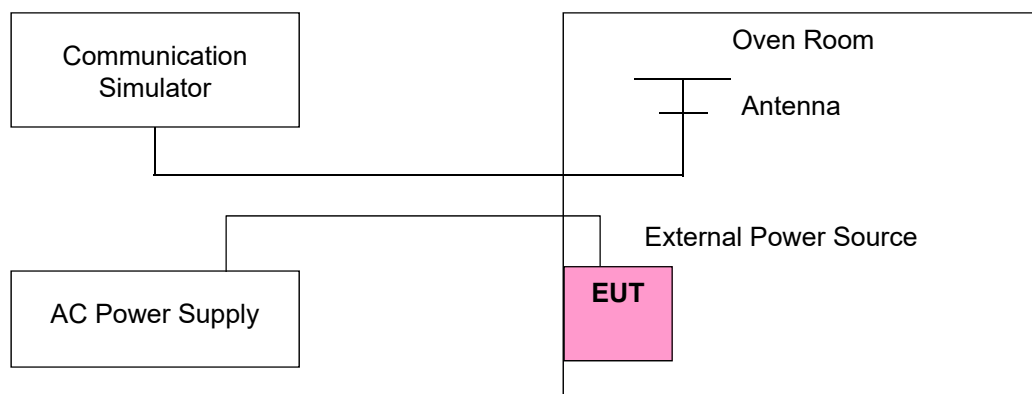
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.3.2 Test Procedure

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

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

4.3.3 Test Setup



4.3.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (ppm)	Limit (ppm)
102	0.0233731740	2.5
120	0.0276228422	2.5
138	0.0207171319	2.5

Note: The applicant defined the normal working voltage is from 102Vac to 138Vac.

Frequency Error vs. Temperature.

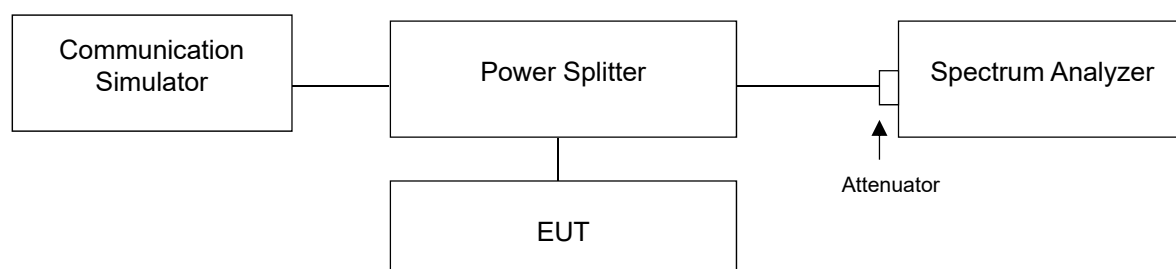
Temp. (°C)	Frequency Error (ppm)	Limit (ppm)
75	0.0217795487	2.5
70	0.0191235063	2.5
60	0.0169986722	2.5
50	0.0223107570	2.5
40	0.0244355911	2.5
30	0.0164674636	2.5
20	0.0239043827	2.5
10	0.0159362550	2.5
0	0.0180610890	2.5
-10	0.0175298810	2.5
-20	0.0185922976	2.5
-30	0.0154050468	2.5

4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

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

4.4.2 Test Setup

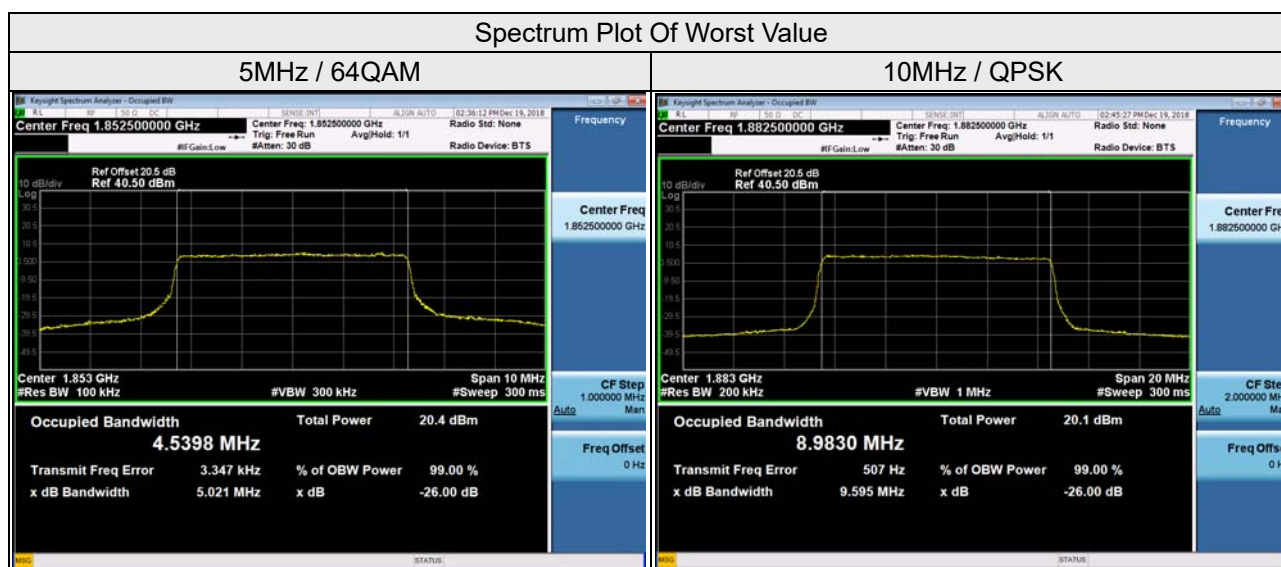


4.4.3 Test Result

Occupied Bandwidth

LTE Band 25, Channel Bandwidth 5MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)					
		QPSK		16QAM		64QAM	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
26065	1852.5	4.4985	4.4978	4.4951	4.4966	4.4968	4.5398
26365	1882.5	4.4998	4.4994	4.4948	4.4989	4.4966	4.4968
26665	1912.5	4.4895	4.4879	4.4867	4.4881	4.4880	4.4887

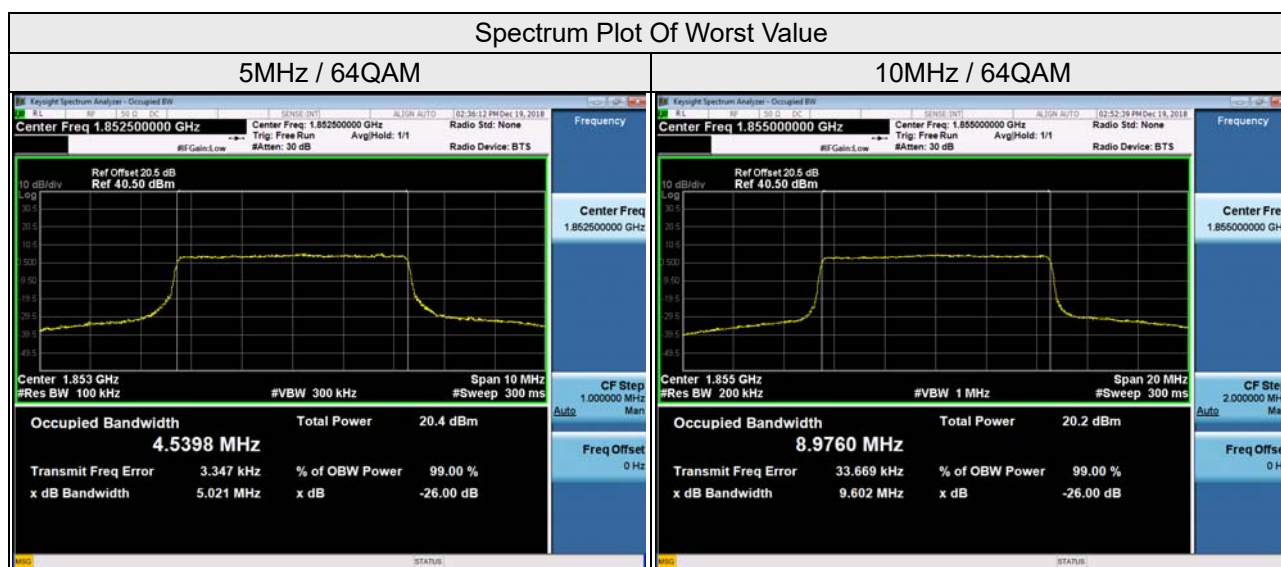
LTE Band 25, Channel Bandwidth 10MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)					
		QPSK		16QAM		64QAM	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
26090	1855.0	8.9672	8.9670	8.9685	8.9716	8.9759	8.9760
26365	1882.5	8.9830	8.9675	8.9709	8.9720	8.9719	8.9738
26640	1910.0	8.9078	8.9039	8.9080	8.9172	8.9141	8.9136



26dB Bandwidth

LTE Band 25, Channel Bandwidth 5MHz							
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)					
		QPSK		16QAM		64QAM	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
26065	1852.5	5.003	5.002	4.952	4.982	4.973	5.021
26365	1882.5	4.968	4.976	4.985	4.971	4.940	4.931
26665	1912.5	4.929	4.922	4.909	4.914	4.941	4.895

LTE Band 25, Channel Bandwidth 10MHz							
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)					
		QPSK		16QAM		64QAM	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
26090	1855.0	9.572	9.536	9.553	9.543	9.588	9.602
26365	1882.5	9.595	9.522	9.534	9.537	9.580	9.547
26640	1910.0	9.480	9.484	9.499	9.484	9.523	9.505

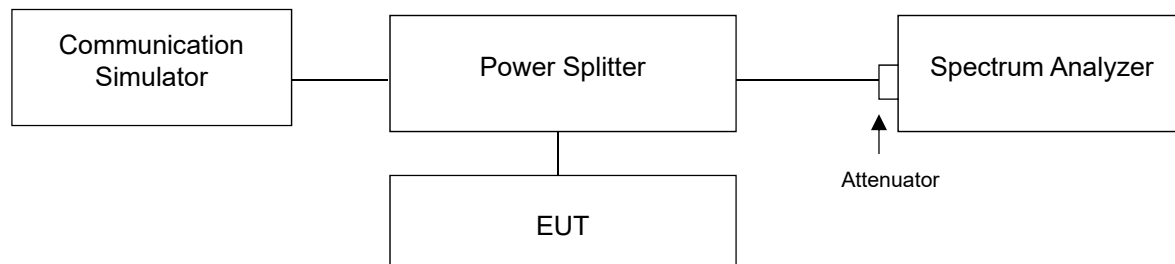


4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

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

4.5.2 Test Setup



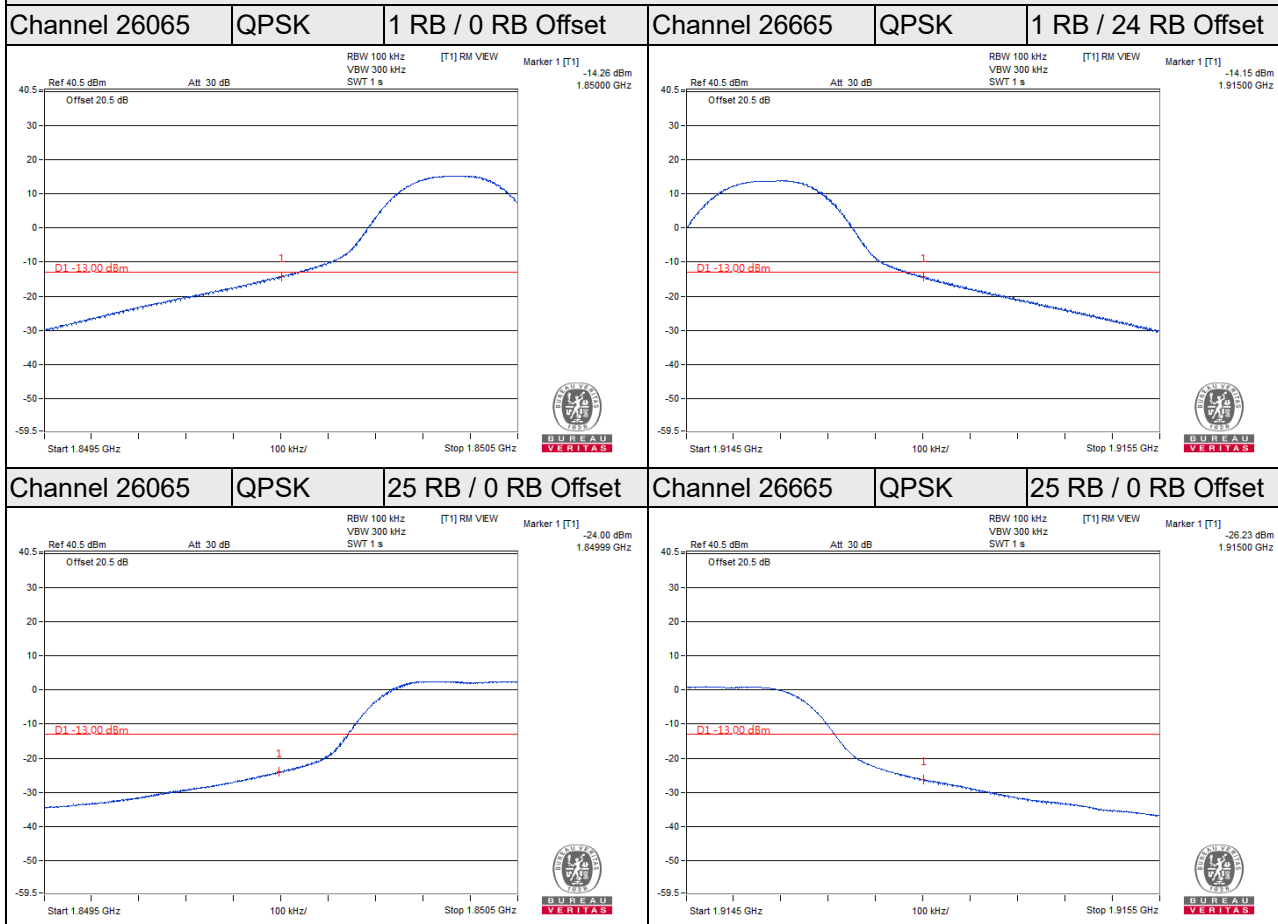
4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1.5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 5MHz).
- The center frequency of spectrum is the band edge frequency and span is 1.5MHz. RB of the spectrum is 200kHz and VB of the spectrum is 620kHz (LTE Channel Bandwidth 10MHz).

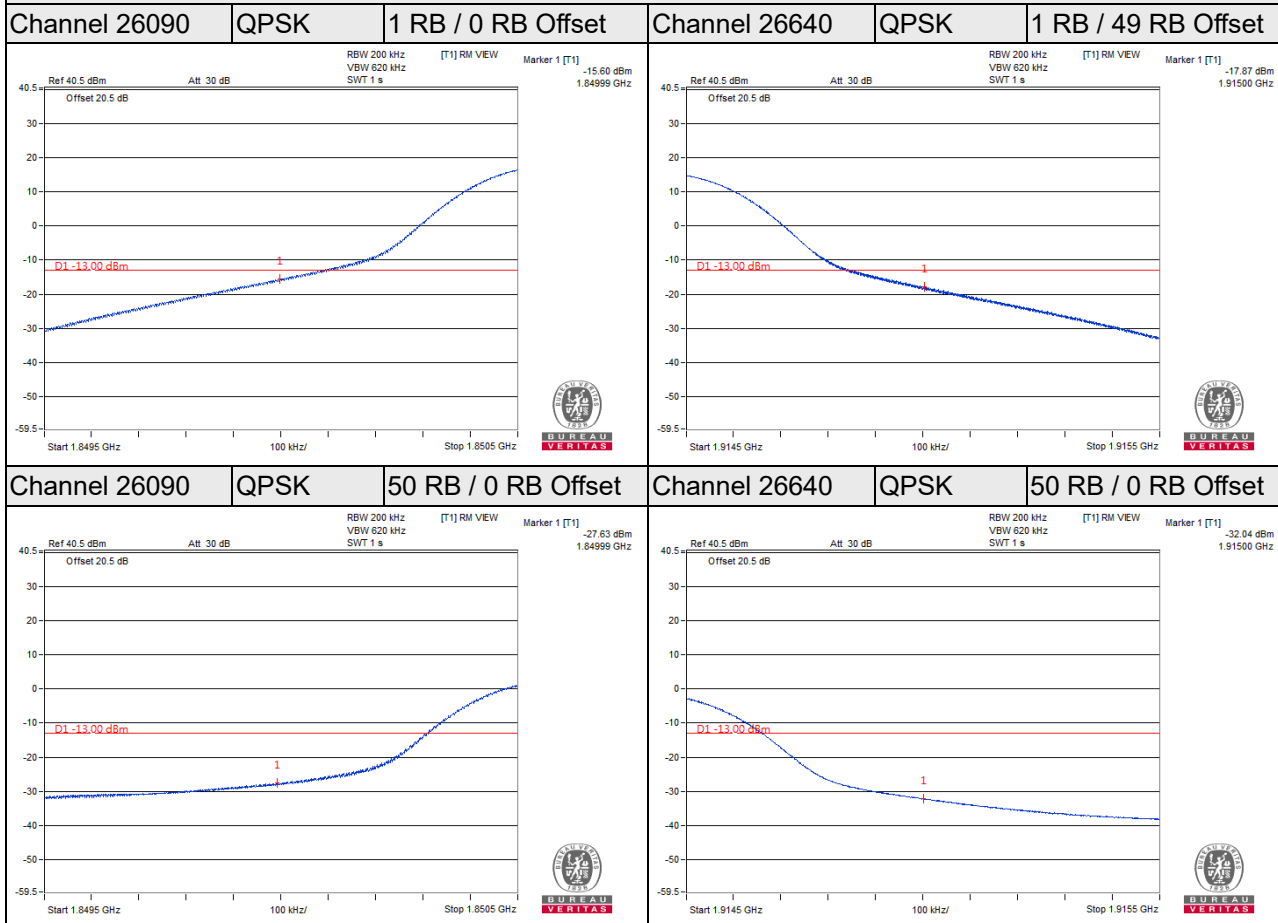
4.5.4 Test Results

Chain 0

LTE Band 25, Channel Bandwidth 5MHz

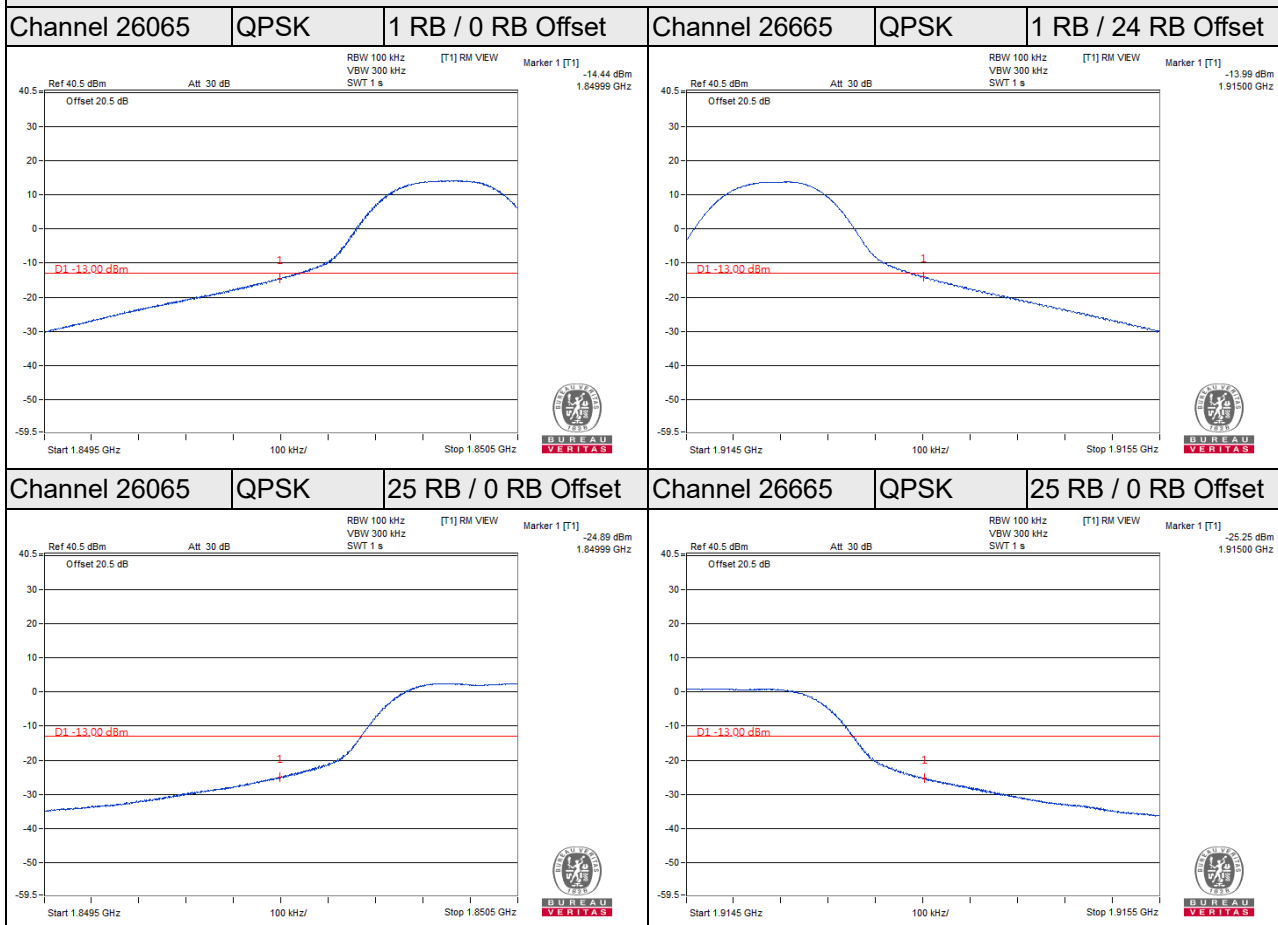


LTE Band 25, Channel Bandwidth 10MHz

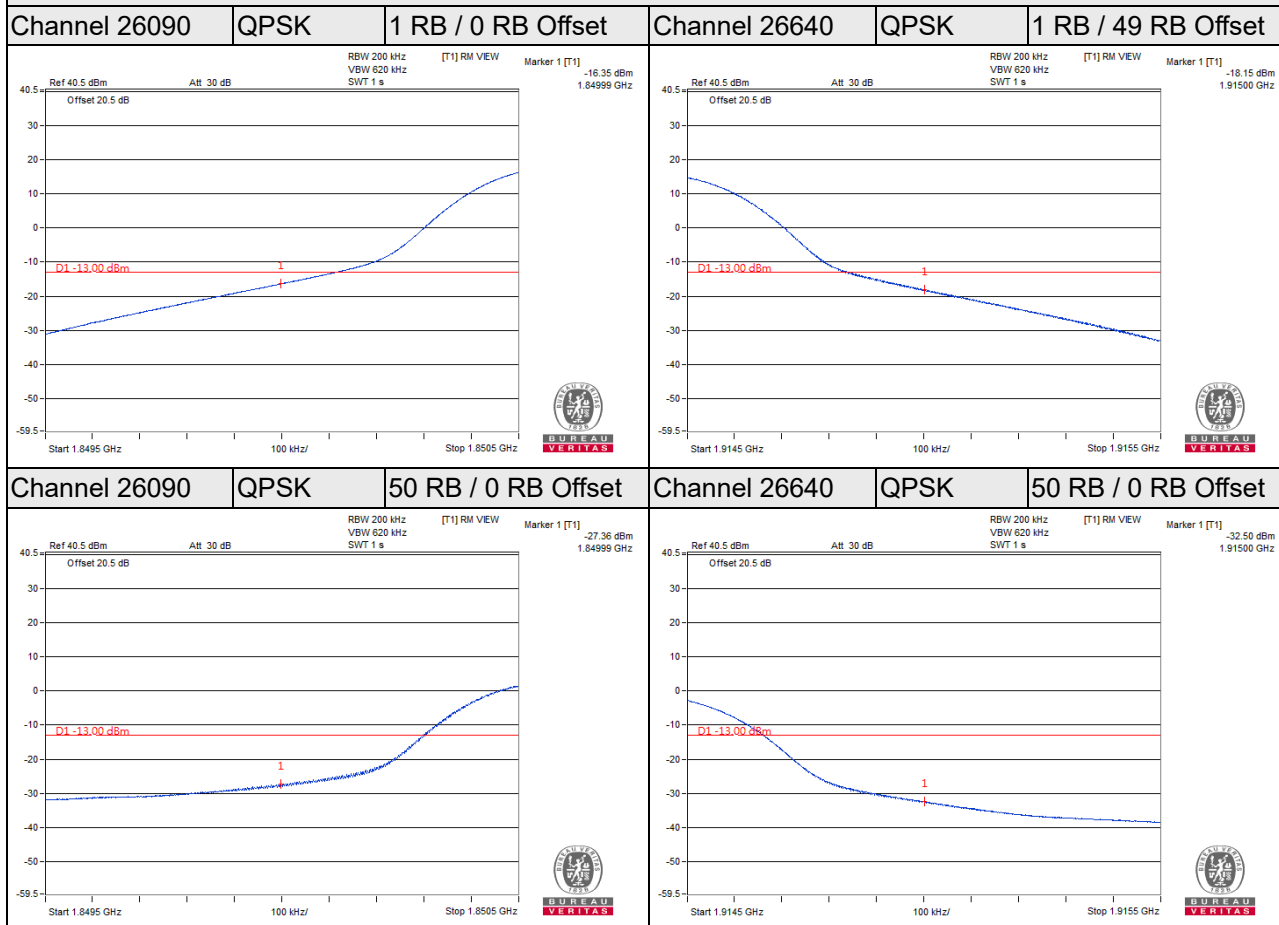


Chain 1

LTE Band 25, Channel Bandwidth 5MHz



LTE Band 25, Channel Bandwidth 10MHz

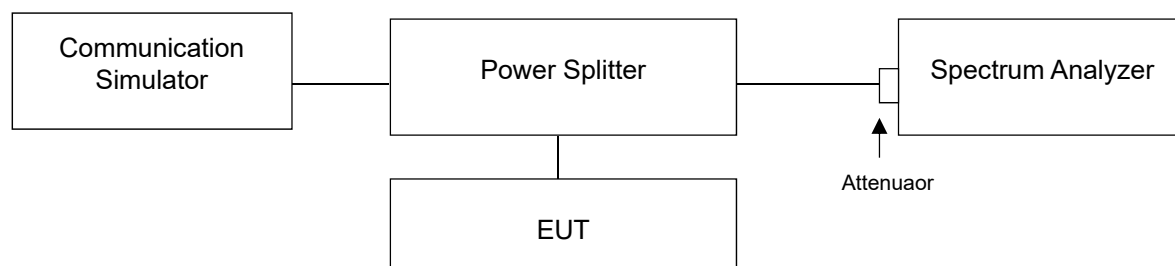


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.6.2 Test Setup



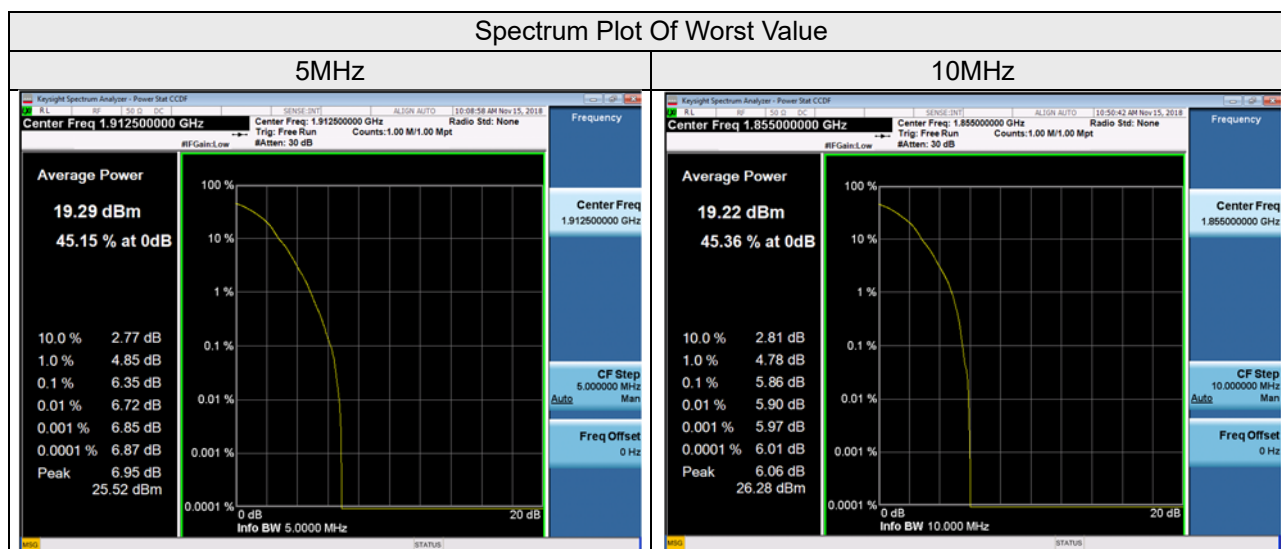
4.6.3 Test Procedures

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

4.6.4 Test Results

LTE Band 25, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	
		Chain0	Chain1
26065	1852.5	6.13	6.07
26365	1882.5	6.12	6.14
26665	1912.5	6.35	6.24

LTE Band 25, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	
		Chain0	Chain1
26090	1855.0	5.53	5.52
26365	1882.5	5.53	5.54
26640	1910.0	4.94	4.89

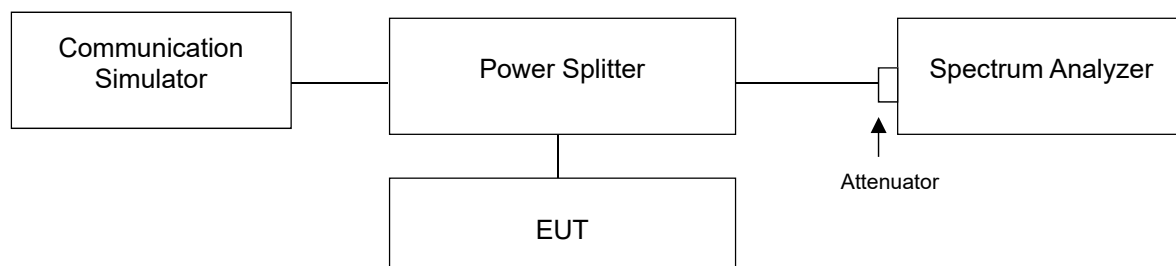


4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

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

4.7.2 Test Setup



4.7.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz to 26.5GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

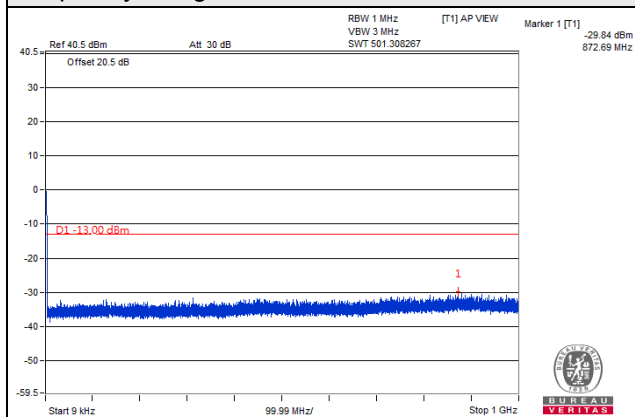
4.7.4 Test Results

Chian 0

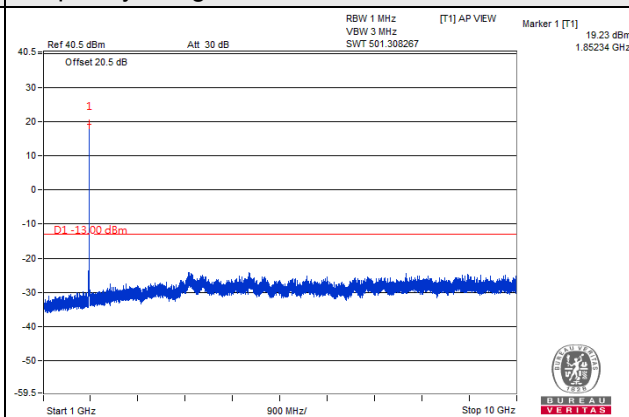
LTE Band 25, Channel Bandwidth 5MHz

Channel 26065 (1852.5MHz)

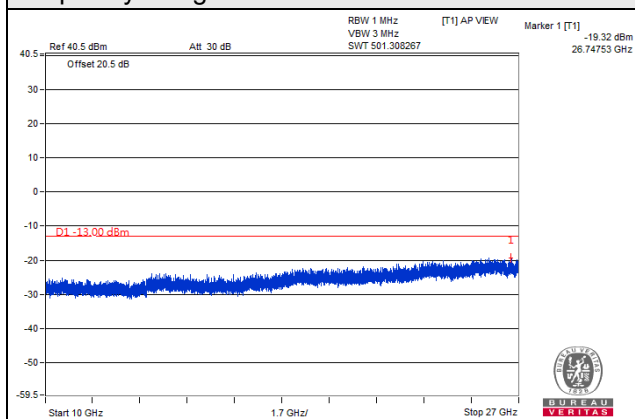
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



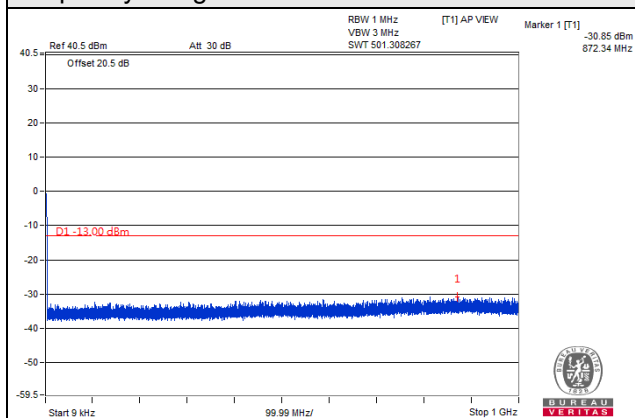
Frequency Range : 10GHz~26.5GHz



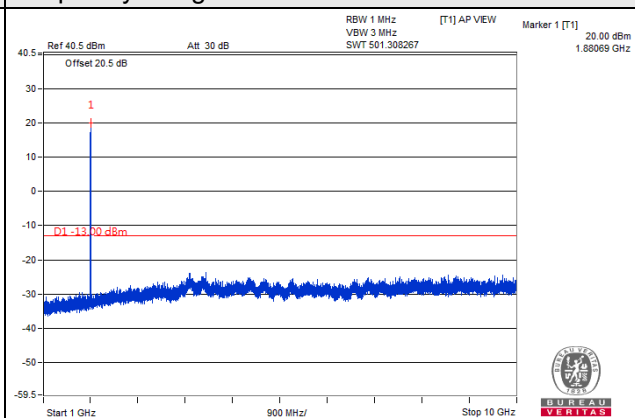
LTE Band 25, Channel Bandwidth 5MHz

Channel 26365 (1882.5MHz)

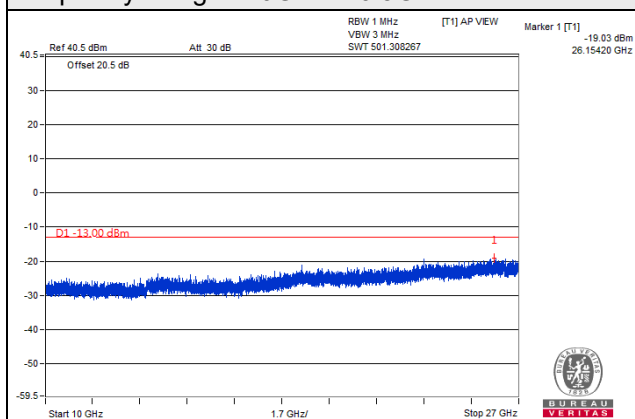
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



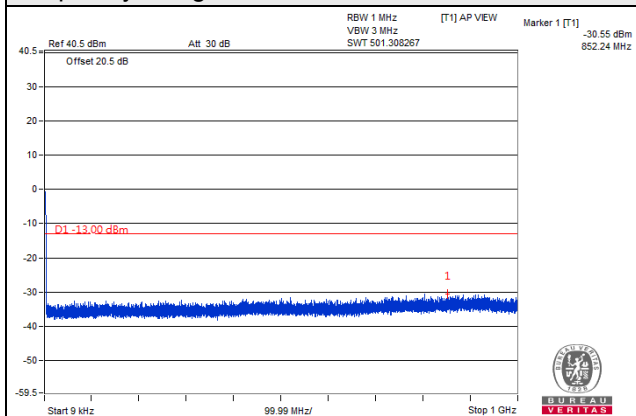
Frequency Range : 10GHz~26.5GHz



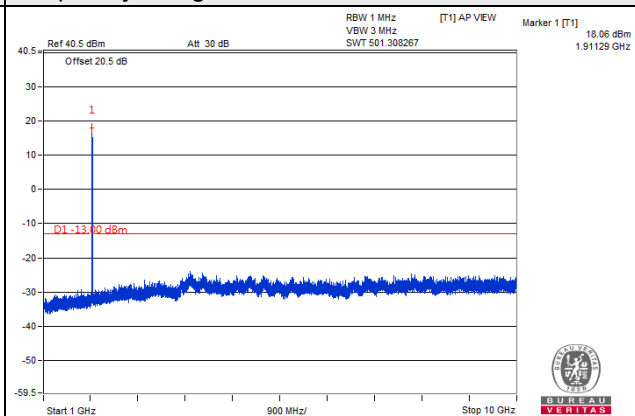
LTE Band 25, Channel Bandwidth 5MHz

Channel 26665 (1912.5MHz)

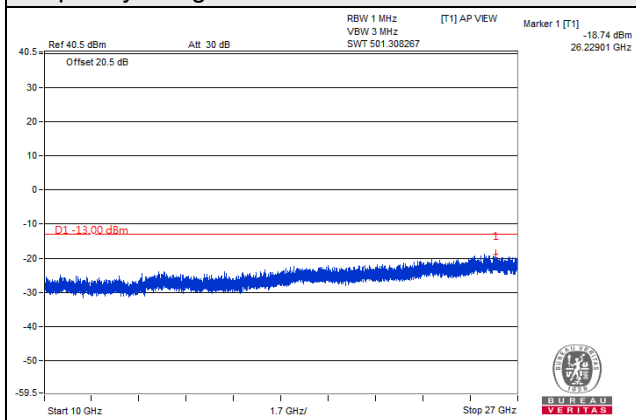
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



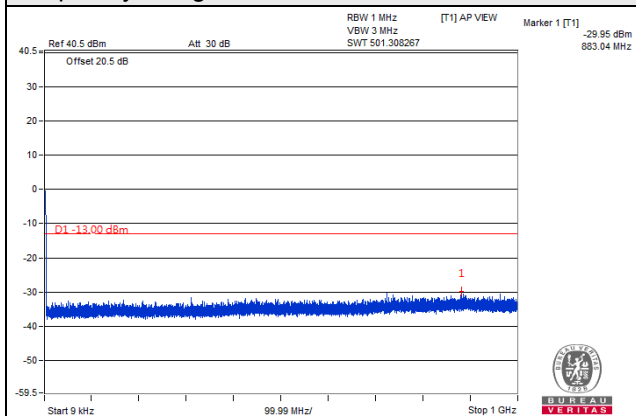
Frequency Range : 10GHz~26.5GHz



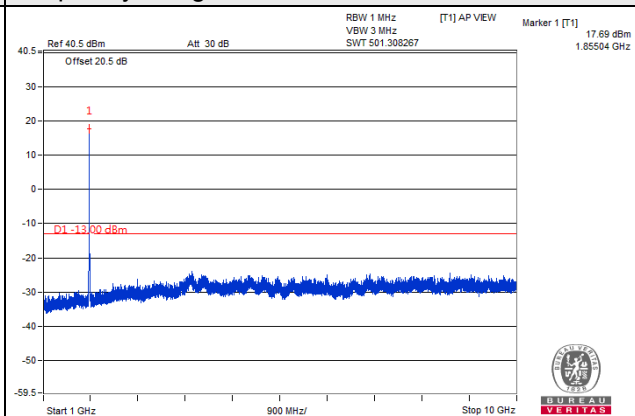
LTE Band 25, Channel Bandwidth 10MHz

Channel 26090 (1855MHz)

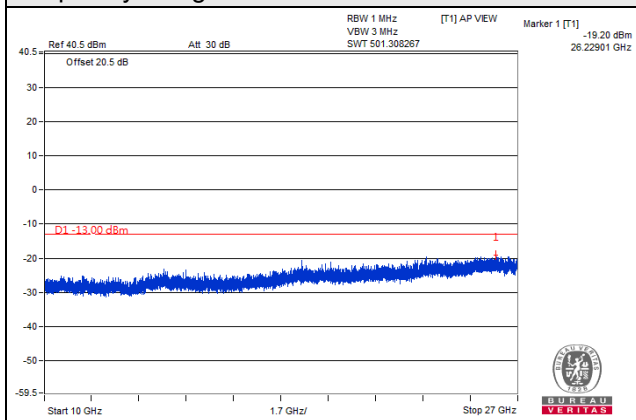
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



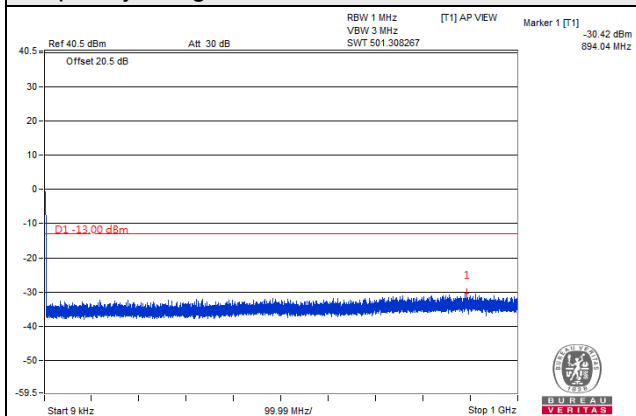
Frequency Range : 10GHz~26.5GHz



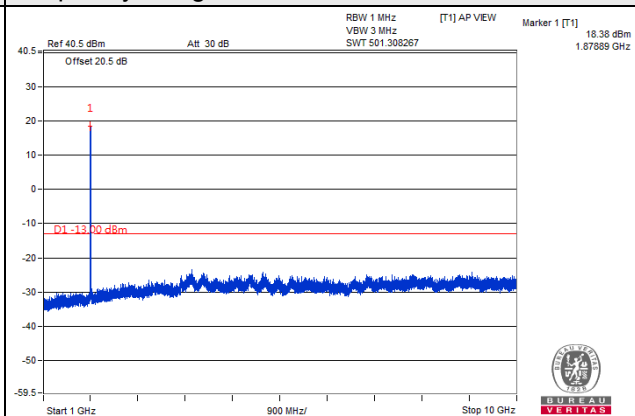
LTE Band 25, Channel Bandwidth 10MHz

Channel 26365 (1882.5MHz)

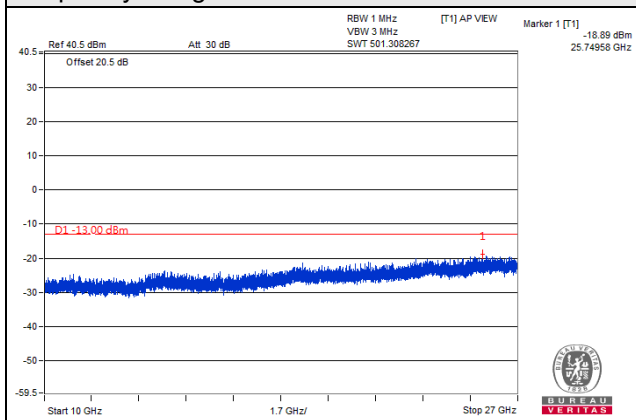
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



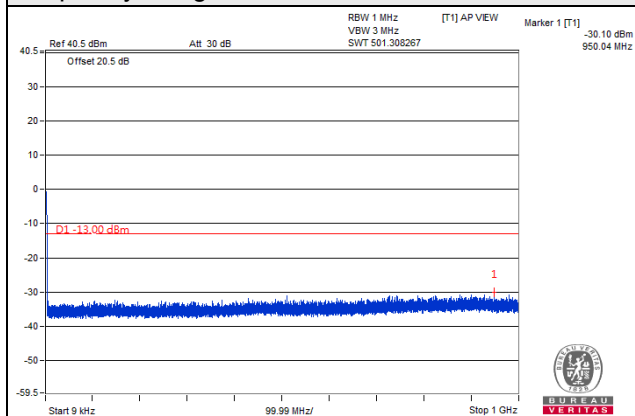
Frequency Range : 10GHz~26.5GHz



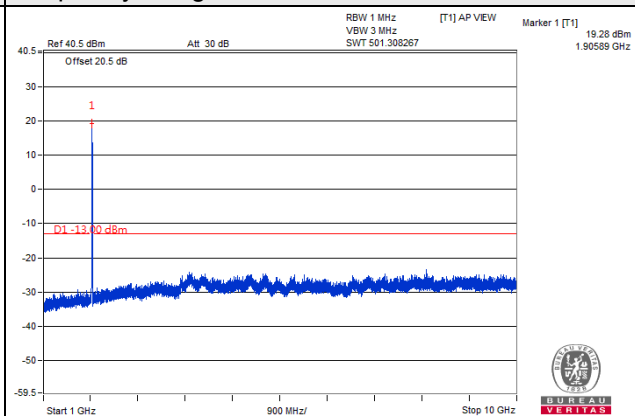
LTE Band 25, Channel Bandwidth 10MHz

Channel 26640 (1910MHz)

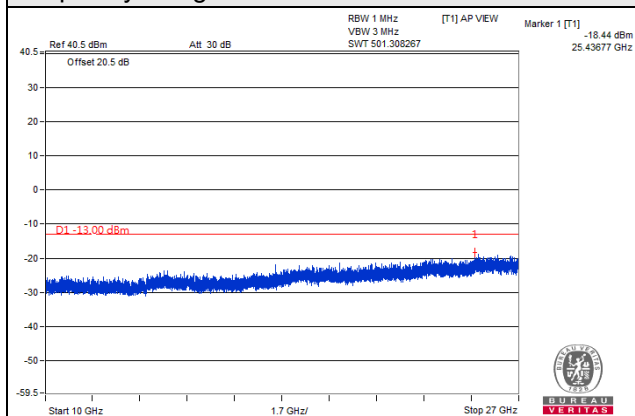
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~26.5GHz

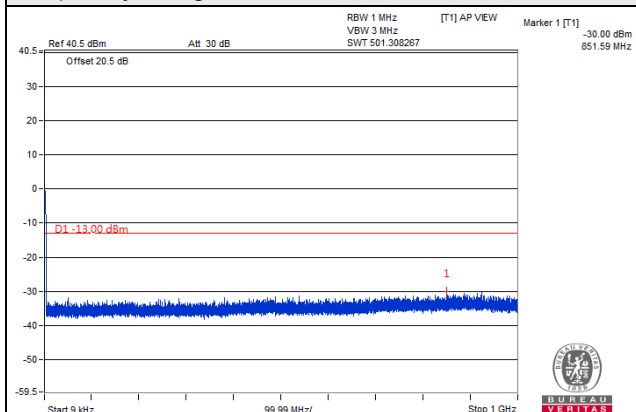


Chian 1

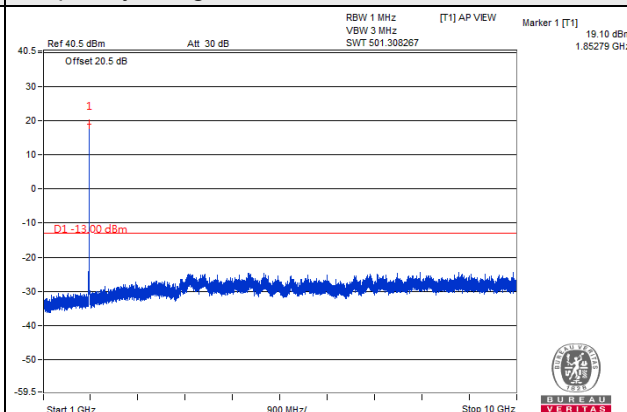
LTE Band 25, Channel Bandwidth 5MHz

Channel 26065 (1852.5MHz)

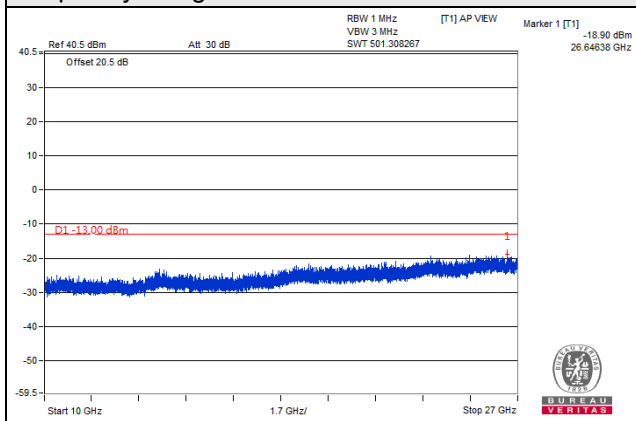
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



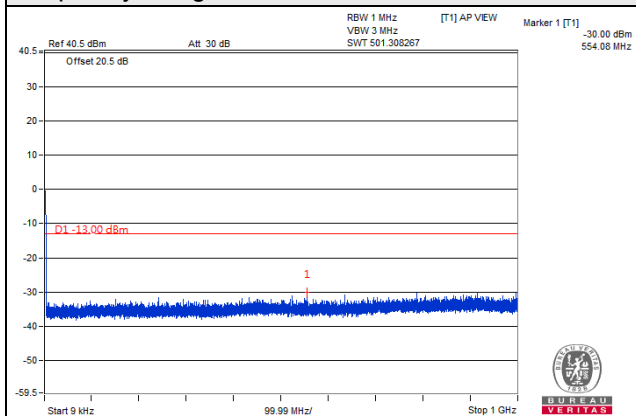
Frequency Range : 10GHz~26.5GHz



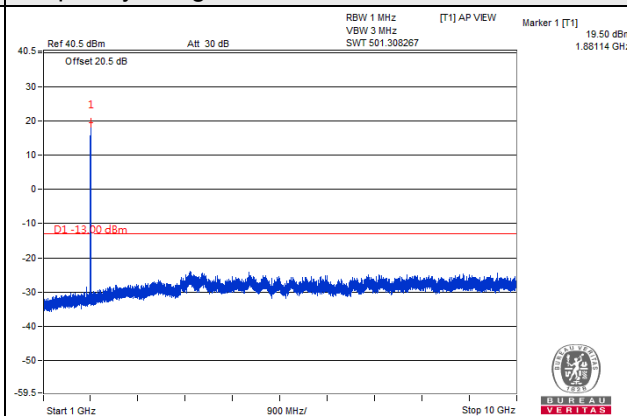
LTE Band 25, Channel Bandwidth 5MHz

Channel 26365 (1882.5MHz)

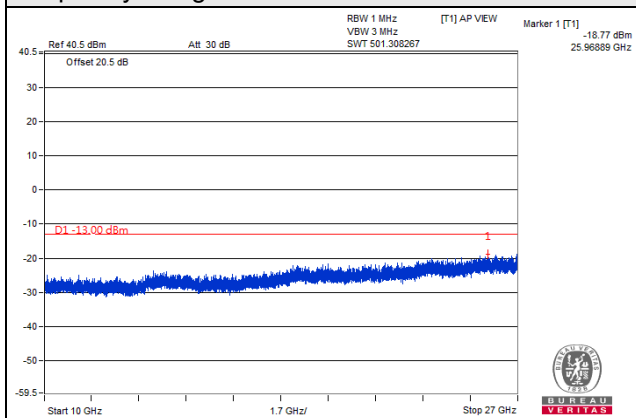
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



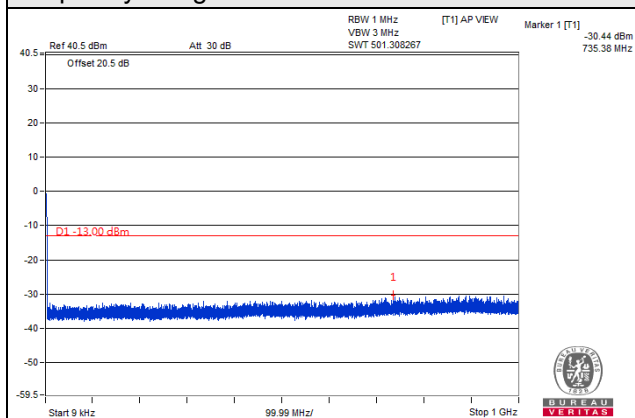
Frequency Range : 10GHz~26.5GHz



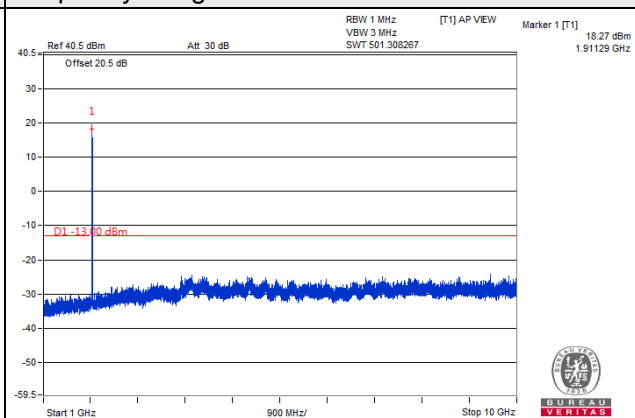
LTE Band 25, Channel Bandwidth 5MHz

Channel 26665 (1912.5MHz)

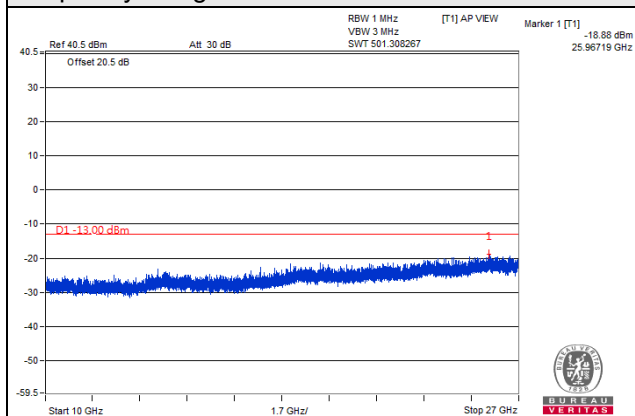
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



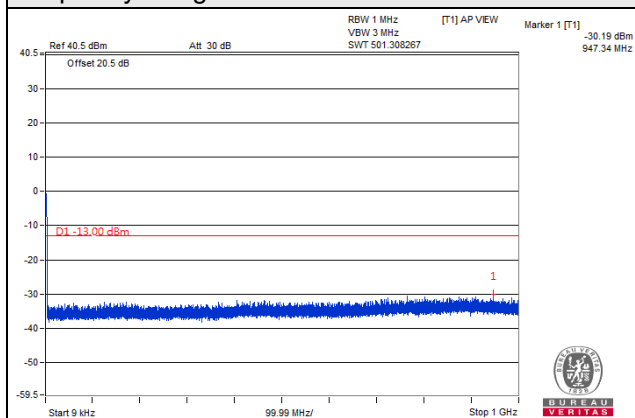
Frequency Range : 10GHz~26.5GHz



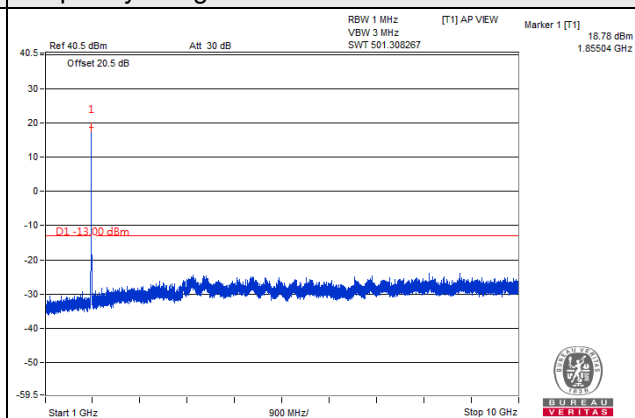
LTE Band 25, Channel Bandwidth 10MHz

Channel 26090 (1855MHz)

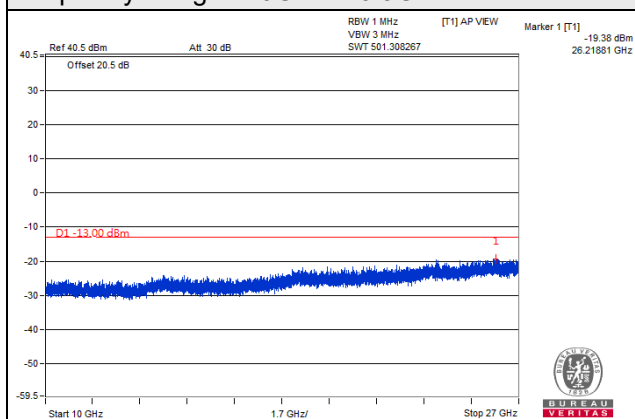
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



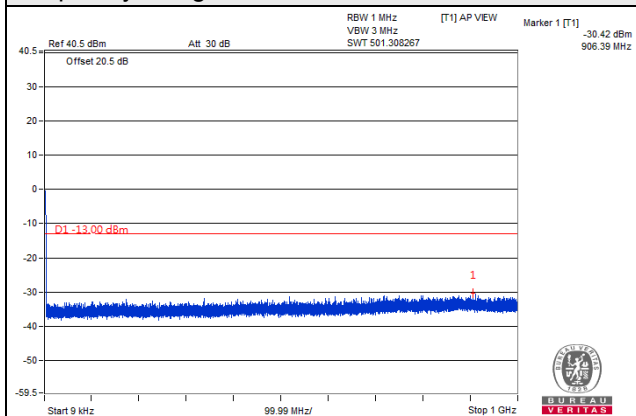
Frequency Range : 10GHz~26.5GHz



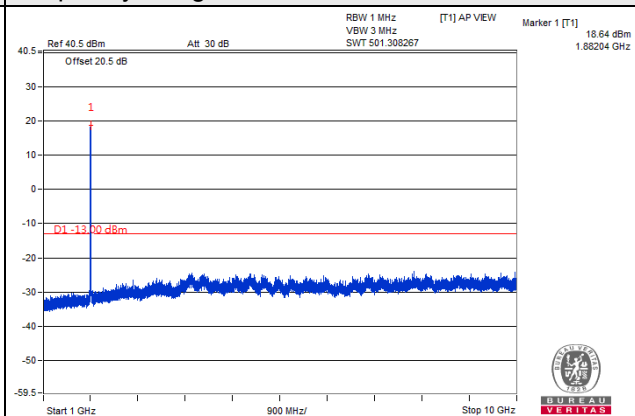
LTE Band 25, Channel Bandwidth 10MHz

Channel 26365 (1882.5MHz)

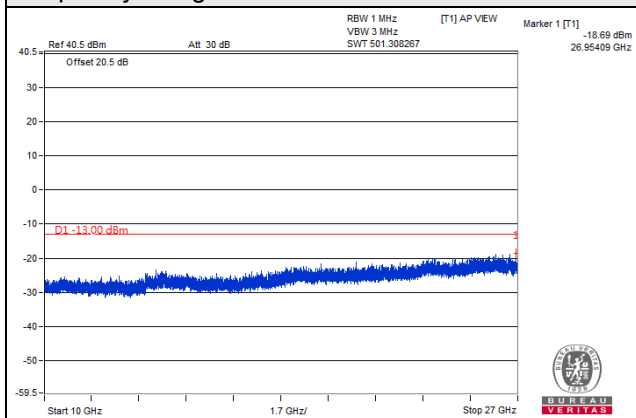
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



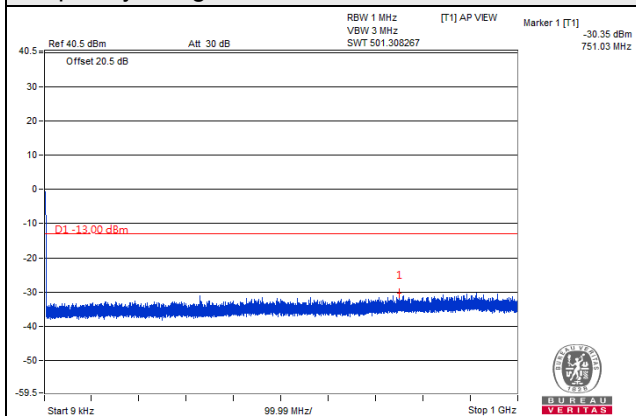
Frequency Range : 10GHz~26.5GHz



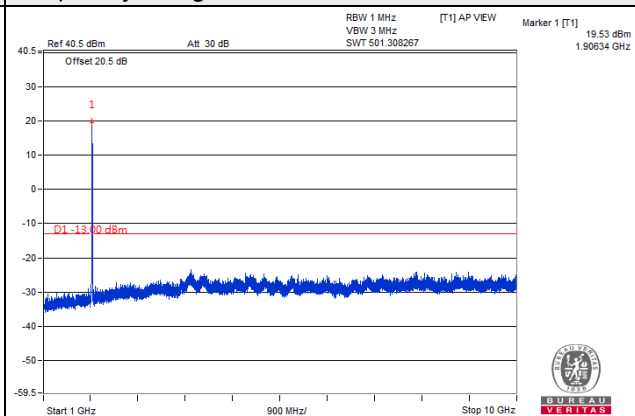
LTE Band 25, Channel Bandwidth 10MHz

Channel 26640 (1910MHz)

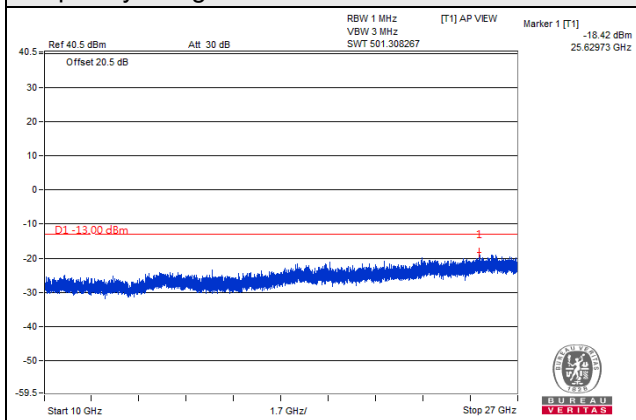
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~26.5GHz



4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

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

4.8.2 Test Procedure

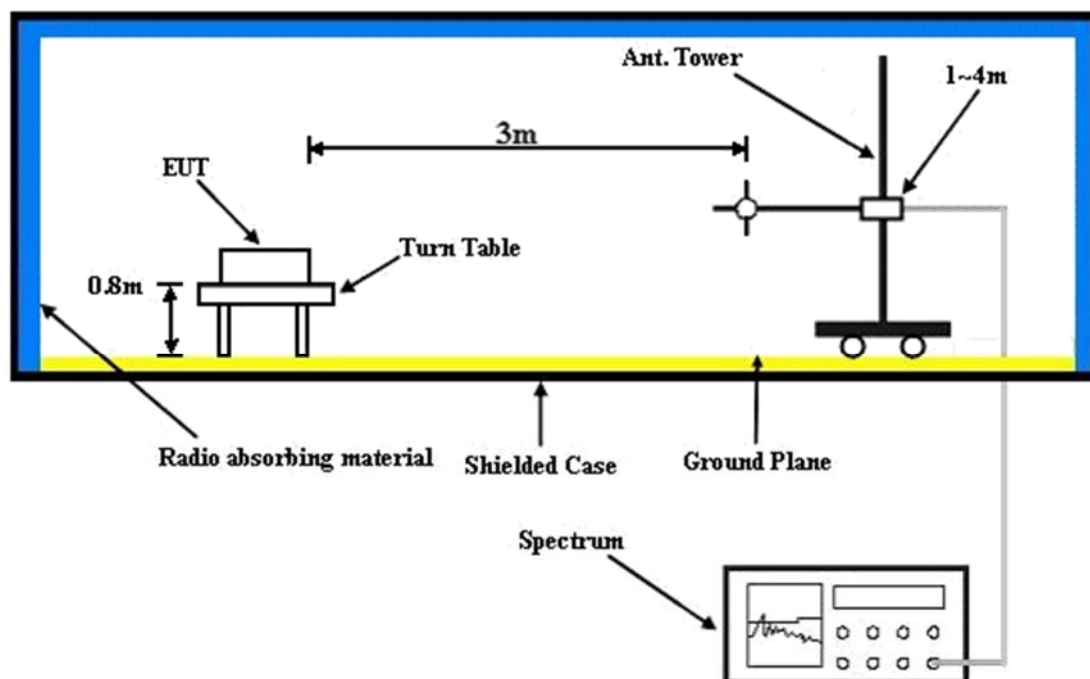
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

4.8.3 Deviation from Test Standard

No deviation.

4.8.4 Test Setup



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

4.8.5 Test Results

Below 1GHz

LTE Band 25, Channel Bandwidth: 5MHz

Mode	TX channel 26065 (1852.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	39.22	-56.04	-64.04	5.08	-58.96	-13.00	-45.96
2	76.68	-67.98	-83.05	7.33	-75.72	-13.00	-62.72
3	119.97	-63.58	-78.49	10.40	-68.09	-13.00	-55.09
4	143.97	-72.25	-86.90	11.74	-75.16	-13.00	-62.16
5	398.96	-86.06	-104.04	16.20	-87.84	-13.00	-74.84
6	692.75	-83.47	-96.05	16.20	-79.85	-13.00	-66.85

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	39.94	-61.78	-66.04	5.10	-60.94	-13.00	-47.94
2	48.19	-62.15	-68.06	5.39	-62.67	-13.00	-49.67
3	107.96	-75.51	-89.20	9.34	-79.86	-13.00	-66.86
4	119.97	-75.10	-89.86	10.40	-79.46	-13.00	-66.46
5	155.98	-78.32	-92.08	12.04	-80.04	-13.00	-67.04
6	654.20	-85.65	-99.83	16.20	-83.63	-13.00	-70.63

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25, Channel Bandwidth: 10MHz

Mode	TX channel 26640 (1910.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.06	-59.06	-65.34	5.10	-60.24	-13.00	-47.24
2	76.80	-68.00	-83.10	7.34	-75.76	-13.00	-62.76
3	119.97	-63.98	-78.89	10.40	-68.49	-13.00	-55.49
4	143.97	-71.91	-86.56	11.74	-74.82	-13.00	-61.82
5	360.04	-84.30	-103.13	16.20	-86.93	-13.00	-73.93
6	500.94	-86.07	-102.33	16.20	-86.13	-13.00	-73.13
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	39.94	-62.49	-66.75	5.10	-61.65	-13.00	-48.65
2	49.76	-67.45	-73.74	5.49	-68.25	-13.00	-55.25
3	108.08	-77.14	-90.80	9.35	-81.45	-13.00	-68.45
4	155.98	-81.22	-94.98	12.04	-82.94	-13.00	-69.94
5	199.99	-78.73	-102.45	16.20	-86.25	-13.00	-73.25
6	465.89	-84.45	-101.88	16.20	-85.68	-13.00	-72.68

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Above 1GHz

LTE Band 25, Channel Bandwidth: 5MHz

Mode	TX channel 26065 (1852.5MHz)	Frequency Range	Above 1000MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705.48	-45.66	-58.46	16.20	-42.26	-13.00	-29.26
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705.57	-45.24	-57.64	16.20	-41.44	-13.00	-28.44

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	Above 1000MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.22	-42.29	-54.72	16.20	-38.52	-13.00	-25.52
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.73	-41.33	-53.32	16.20	-37.12	-13.00	-24.12

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26665 (1912.5MHz)	Frequency Range	Above 1000MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3825.18	-44.60	-56.89	16.20	-40.69	-13.00	-27.69
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3825.55	-43.88	-55.70	16.20	-39.50	-13.00	-26.50

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25, Channel Bandwidth: 10MHz

Mode	TX channel 26090 (1855.0MHz)	Frequency Range	Above 1000MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.06	-43.41	-56.18	16.20	-39.98	-13.00	-26.98
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.31	-42.73	-55.10	16.20	-38.90	-13.00	-25.90

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	Above 1000MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.01	-54.13	-66.56	16.20	-50.36	-13.00	-37.36
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.20	-53.34	-65.33	16.20	-49.13	-13.00	-36.13

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26640 (1910.0MHz)	Frequency Range	Above 1000MHz
Environmental Conditions	18deg. C, 78%RH	Input Power	120Vac, 60Hz
Tested By	StarItaly Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3820.54	-52.89	-65.16	16.20	-48.96	-13.00	-35.96
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3820.93	-52.35	-64.15	16.20	-47.95	-13.00	-34.95

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

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

Appendix – Information of the Testing Laboratories

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

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

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