



RF TEST REPORT

Applicant Honor Device Co., Ltd.
FCC ID 2AYGCTFY-LX3
Product Smart Phone
Model TFY-LX3
Report No. R2201A0036-R4V1
Issue Date February 9, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2020)/ FCC CFR 47 Part 90S (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	January 29, 2022
Rev.1	Update information in Page 6 and Page 7.	February 9, 2022
Note: This revised report (Report No. R2201A0036-R4V1) supersedes and replaces the previously issued report (Report No. R2201A0036-R4). Please discard or destroy the previously issued report and dispose of it accordingly.		



Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046/90.635(b)	PASS
2	Occupied Bandwidth	2.1049/ 90.209	PASS
3	Emission Masks	2.1051 / 90.691	PASS
4	Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 90.213	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 90.691	PASS
7	Radiates Spurious Emission	2.1053 /90.691	PASS
Date of Testing: January 13, 2022 ~ January 27, 2022			
Date of Sample Received: January 10, 2022			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			



1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

2.2. General Information

EUT Description			
Model		TFY-LX3	
SN		A7NX011C22000163	
Hardware Version		HL6TFYM	
Software Version		4.2.0.35(C900E14R1P1)	
Power Supply		Battery / AC adapter	
Antenna Type		Internal Antenna	
Antenna Gain	Band	Main Atenna	Sencond Atenna
	LTE Band 26	-3.78 dBi	NA
Test Mode(s)		LTE Band 26;	
Test Modulation		QPSK, 16QAM	
LTE Category		4	
Maximum E.R.P.		LTE Band 26:	18.71dBm
Rated Power Supply Voltage		3.87V	
Operating Voltage		Minimum: 3.60V Maximum: 4.45V	
Operating Temperature		Lowest: 0℃ Highest: +35℃	
Testing Temperature		Lowest: 0℃ Highest: +35℃	
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	LTE Band 26	814 ~ 824	859 ~ 869
EUT Accessory			
Accessory	Model	Manufacture	No.
Adapter	HW-100225E00	Honor Device Co., Ltd. (Manufacturer:Huntkey)	1
	HW-100225U00	Honor Device Co., Ltd. (Manufacturer:Huntkey)	2
	HW-100225B00	Honor Device Co., Ltd. (Manufacturer:Huntkey)	3
	HN-100225E00	Honor Device Co., Ltd. (Manufacturer: Salcomp)	4
	HN-100225U00	Honor Device Co., Ltd. (Manufacturer: Salcomp)	5



Battery	HB416492EFW	Honor Device Co., Ltd. (Manufacturer: Sunwoda Electronic Co.,LTD)	1
	HB416492EFW	Honor Device Co., Ltd. (Manufacturer:NVT)	2
Earphone	MEND1532B528A11	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.	1
	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.	2
	EPAB542-2WH05-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	3
USB Cable	RY0002	NingBo Broad Telecommunication Co., Ltd.	1
	AU2-CRO013HF	Freeport Resources Enterprises Corp.	2
	2120-00001-0	MING JI ELECTRONICS CO., LTD.	3
	L125UC007-CS-H	LUXSHARE PRECISION INDUSTRY CO., LTD.	4
	CUDU01B-HC451-EH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	5

Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.

2. There are more than one Adapter, Battery, Earphone and USB Cable, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 1, Battery 2, Earphone 1 and USB Cable 3) will be recorded in this report.



3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR 47 Part 90S (2020)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2020)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (for Z axis, horizontal polarization for LTE Band (Main Antenna), vertical polarization for LTE Band (Second Antenna) and the worst case was recorded.

All mode and data rates and positions were investigated.

The following testing in LTE is set based on the maximum RF Output Power.

Test modes are chosen as the worst case configuration below for LTE Band 26

Test items	Bandwidth (MHz)				Modulation		RB			Test Channel		
	1.4	3	5	10	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Radiated Power	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	O	O	O	O	O	O	-	-	O	O	O	O
Emission Mask	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	O	O	O	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.											

5. Test Case Results

5.1. RF Power Output and Effective Radiated Power

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

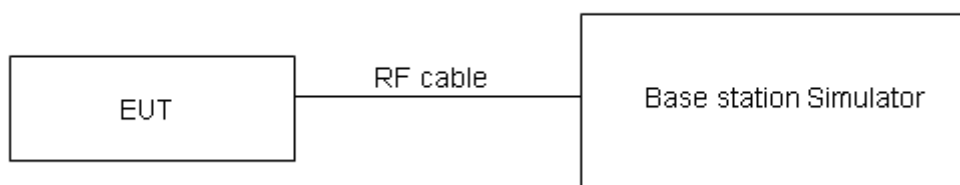
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$$

where: dBd refers to gain relative to an ideal dipole.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

Test Setup



Limits

Part 90.635 (b) the maximum output power of the transmitter for mobile stations is 100 watts.

Rule Part 90.635(b) specifies that "The maximum output power of the transmitter for mobile stations is 100 watts".

Limit	$\leq 100 \text{ W}$ (50 dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4 \text{ dB}$ for RF power output, $k = 2$, $U = 1.19 \text{ dB}$ for ERP.

**Test Results**

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
LTE Band26	1.4	26697	1	#0	QPSK	24.32	18.39
LTE Band26	1.4	26697	1	#Mid	QPSK	24.42	18.49
LTE Band26	1.4	26697	1	#Max	QPSK	24.27	18.34
LTE Band26	1.4	26697	3	#0	QPSK	24.38	18.45
LTE Band26	1.4	26697	3	#Mid	QPSK	24.40	18.47
LTE Band26	1.4	26697	3	#Max	QPSK	24.38	18.45
LTE Band26	1.4	26697	6	#0	QPSK	23.57	17.64
LTE Band26	1.4	26697	1	#0	QAM16	23.46	17.53
LTE Band26	1.4	26697	1	#Mid	QAM16	23.52	17.59
LTE Band26	1.4	26697	1	#Max	QAM16	23.42	17.49
LTE Band26	1.4	26697	3	#0	QAM16	23.78	17.85
LTE Band26	1.4	26697	3	#Mid	QAM16	23.74	17.81
LTE Band26	1.4	26697	3	#Max	QAM16	23.75	17.82
LTE Band26	1.4	26697	6	#0	QAM16	22.57	16.64
LTE Band26	1.4	26740	1	#0	QPSK	24.21	18.28
LTE Band26	1.4	26740	1	#Mid	QPSK	24.45	18.52
LTE Band26	1.4	26740	1	#Max	QPSK	24.31	18.38
LTE Band26	1.4	26740	3	#0	QPSK	24.32	18.39
LTE Band26	1.4	26740	3	#Mid	QPSK	24.42	18.49
LTE Band26	1.4	26740	3	#Max	QPSK	24.37	18.44
LTE Band26	1.4	26740	6	#0	QPSK	23.58	17.65
LTE Band26	1.4	26740	1	#0	QAM16	23.60	17.67
LTE Band26	1.4	26740	1	#Mid	QAM16	23.64	17.71
LTE Band26	1.4	26740	1	#Max	QAM16	23.63	17.70
LTE Band26	1.4	26740	3	#0	QAM16	23.58	17.65
LTE Band26	1.4	26740	3	#Mid	QAM16	23.56	17.63
LTE Band26	1.4	26740	3	#Max	QAM16	23.56	17.63
LTE Band26	1.4	26740	6	#0	QAM16	22.51	16.58
LTE Band26	1.4	26783	1	#0	QPSK	24.41	18.48
LTE Band26	1.4	26783	1	#Mid	QPSK	24.64	18.71
LTE Band26	1.4	26783	1	#Max	QPSK	24.39	18.46
LTE Band26	1.4	26783	3	#0	QPSK	24.44	18.51
LTE Band26	1.4	26783	3	#Mid	QPSK	24.45	18.52
LTE Band26	1.4	26783	3	#Max	QPSK	24.44	18.51
LTE Band26	1.4	26783	6	#0	QPSK	23.65	17.72
LTE Band26	1.4	26783	1	#0	QAM16	23.40	17.47
LTE Band26	1.4	26783	1	#Mid	QAM16	23.49	17.56
LTE Band26	1.4	26783	1	#Max	QAM16	23.42	17.49
LTE Band26	1.4	26783	3	#0	QAM16	23.60	17.67



LTE Band26	1.4	26783	3	#Mid	QAM16	23.63	17.70
LTE Band26	1.4	26783	3	#Max	QAM16	23.59	17.66
LTE Band26	1.4	26783	6	#0	QAM16	22.65	16.72
LTE Band26	3	26705	1	#0	QPSK	24.41	18.48
LTE Band26	3	26705	1	#Mid	QPSK	24.42	18.49
LTE Band26	3	26705	1	#Max	QPSK	24.33	18.40
LTE Band26	3	26705	8	#0	QPSK	23.66	17.73
LTE Band26	3	26705	8	#Mid	QPSK	23.63	17.70
LTE Band26	3	26705	8	#Max	QPSK	23.59	17.66
LTE Band26	3	26705	15	#0	QPSK	23.70	17.77
LTE Band26	3	26705	1	#0	QAM16	23.82	17.89
LTE Band26	3	26705	1	#Mid	QAM16	23.89	17.96
LTE Band26	3	26705	1	#Max	QAM16	23.77	17.84
LTE Band26	3	26705	8	#0	QAM16	22.62	16.69
LTE Band26	3	26705	8	#Mid	QAM16	22.60	16.67
LTE Band26	3	26705	8	#Max	QAM16	22.51	16.58
LTE Band26	3	26705	15	#0	QAM16	22.63	16.70
LTE Band26	3	26740	1	#0	QPSK	24.39	18.46
LTE Band26	3	26740	1	#Mid	QPSK	24.42	18.49
LTE Band26	3	26740	1	#Max	QPSK	24.36	18.43
LTE Band26	3	26740	8	#0	QPSK	23.60	17.67
LTE Band26	3	26740	8	#Mid	QPSK	23.60	17.67
LTE Band26	3	26740	8	#Max	QPSK	23.62	17.69
LTE Band26	3	26740	15	#0	QPSK	23.60	17.67
LTE Band26	3	26740	1	#0	QAM16	23.74	17.81
LTE Band26	3	26740	1	#Mid	QAM16	23.64	17.71
LTE Band26	3	26740	1	#Max	QAM16	23.68	17.75
LTE Band26	3	26740	8	#0	QAM16	22.59	16.66
LTE Band26	3	26740	8	#Mid	QAM16	22.60	16.67
LTE Band26	3	26740	8	#Max	QAM16	22.61	16.68
LTE Band26	3	26740	15	#0	QAM16	22.51	16.58
LTE Band26	3	26775	1	#0	QPSK	24.22	18.29
LTE Band26	3	26775	1	#Mid	QPSK	24.51	18.58
LTE Band26	3	26775	1	#Max	QPSK	24.31	18.38
LTE Band26	3	26775	8	#0	QPSK	23.60	17.67
LTE Band26	3	26775	8	#Mid	QPSK	23.60	17.67
LTE Band26	3	26775	8	#Max	QPSK	23.60	17.67
LTE Band26	3	26775	15	#0	QPSK	23.60	17.67
LTE Band26	3	26775	1	#0	QAM16	23.31	17.38
LTE Band26	3	26775	1	#Mid	QAM16	23.34	17.41
LTE Band26	3	26775	1	#Max	QAM16	23.34	17.41
LTE Band26	3	26775	8	#0	QAM16	22.54	16.61
LTE Band26	3	26775	8	#Mid	QAM16	22.54	16.61



LTE Band26	3	26775	8	#Max	QAM16	22.60	16.67
LTE Band26	3	26775	15	#0	QAM16	22.60	16.67
LTE Band26	5	26715	1	#0	QPSK	24.45	18.52
LTE Band26	5	26715	1	#Mid	QPSK	24.39	18.46
LTE Band26	5	26715	1	#Max	QPSK	24.36	18.43
LTE Band26	5	26715	12	#0	QPSK	23.70	17.77
LTE Band26	5	26715	12	#Mid	QPSK	23.66	17.73
LTE Band26	5	26715	12	#Max	QPSK	23.69	17.76
LTE Band26	5	26715	25	#0	QPSK	23.65	17.72
LTE Band26	5	26715	1	#0	QAM16	24.03	18.10
LTE Band26	5	26715	1	#Mid	QAM16	24.01	18.08
LTE Band26	5	26715	1	#Max	QAM16	23.97	18.04
LTE Band26	5	26715	12	#0	QAM16	22.64	16.71
LTE Band26	5	26715	12	#Mid	QAM16	22.65	16.72
LTE Band26	5	26715	12	#Max	QAM16	22.66	16.73
LTE Band26	5	26715	25	#0	QAM16	22.61	16.68
LTE Band26	5	26740	1	#0	QPSK	24.45	18.52
LTE Band26	5	26740	1	#Mid	QPSK	24.47	18.54
LTE Band26	5	26740	1	#Max	QPSK	24.37	18.44
LTE Band26	5	26740	12	#0	QPSK	23.76	17.83
LTE Band26	5	26740	12	#Mid	QPSK	23.76	17.83
LTE Band26	5	26740	12	#Max	QPSK	23.67	17.74
LTE Band26	5	26740	25	#0	QPSK	23.65	17.72
LTE Band26	5	26740	1	#0	QAM16	23.76	17.83
LTE Band26	5	26740	1	#Mid	QAM16	23.74	17.81
LTE Band26	5	26740	1	#Max	QAM16	23.64	17.71
LTE Band26	5	26740	12	#0	QAM16	22.66	16.73
LTE Band26	5	26740	12	#Mid	QAM16	22.65	16.72
LTE Band26	5	26740	12	#Max	QAM16	22.65	16.72
LTE Band26	5	26740	25	#0	QAM16	22.63	16.70
LTE Band26	5	26765	1	#0	QPSK	24.37	18.44
LTE Band26	5	26765	1	#Mid	QPSK	24.30	18.37
LTE Band26	5	26765	1	#Max	QPSK	24.38	18.45
LTE Band26	5	26765	12	#0	QPSK	23.71	17.78
LTE Band26	5	26765	12	#Mid	QPSK	23.72	17.79
LTE Band26	5	26765	12	#Max	QPSK	23.61	17.68
LTE Band26	5	26765	25	#0	QPSK	23.58	17.65
LTE Band26	5	26765	1	#0	QAM16	23.79	17.86
LTE Band26	5	26765	1	#Mid	QAM16	23.75	17.82
LTE Band26	5	26765	1	#Max	QAM16	23.72	17.79
LTE Band26	5	26765	12	#0	QAM16	22.67	16.74
LTE Band26	5	26765	12	#Mid	QAM16	22.69	16.76
LTE Band26	5	26765	12	#Max	QAM16	22.64	16.71



LTE Band26	5	26765	25	#0	QAM16	22.59	16.66
LTE Band26	10	26740	1	#0	QPSK	24.48	18.55
LTE Band26	10	26740	1	#Mid	QPSK	24.28	18.35
LTE Band26	10	26740	1	#Max	QPSK	24.46	18.53
LTE Band26	10	26740	25	#0	QPSK	23.64	17.71
LTE Band26	10	26740	25	#Mid	QPSK	23.64	17.71
LTE Band26	10	26740	25	#Max	QPSK	23.55	17.62
LTE Band26	10	26740	50	#0	QPSK	23.58	17.65
LTE Band26	10	26740	1	#0	QAM16	23.91	17.98
LTE Band26	10	26740	1	#Mid	QAM16	23.79	17.86
LTE Band26	10	26740	1	#Max	QAM16	23.95	18.02
LTE Band26	10	26740	25	#0	QAM16	22.64	16.71
LTE Band26	10	26740	25	#Mid	QAM16	22.66	16.73
LTE Band26	10	26740	25	#Max	QAM16	22.61	16.68
LTE Band26	10	26740	50	#0	QAM16	22.59	16.66

5.2. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

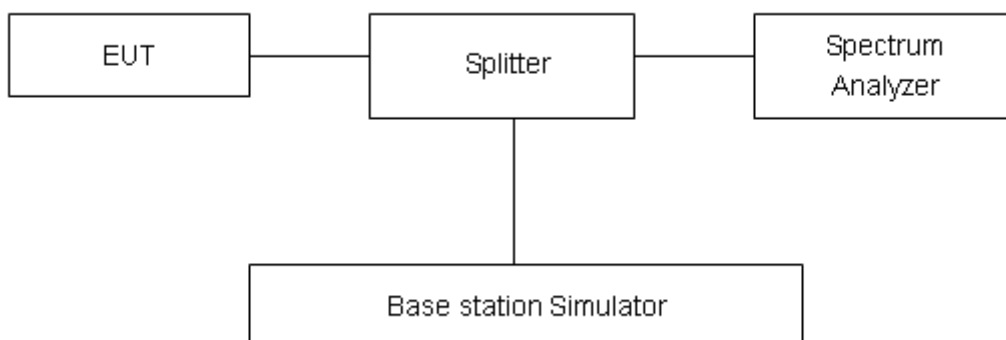
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%$ EBW, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Part 90.209 (a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where part 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 624\text{Hz}$.



Test Result

LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
1	QPSK	1.4	26697	814.7	0.267	0.405
			26740	819	0.264	0.398
			26783	823.3	0.271	0.421
		3	26705	815.5	0.331	0.489
			26740	819	0.339	0.492
			26775	822.5	0.341	0.456
		5	26715	816.5	0.472	0.671
			26740	819	0.471	0.658
			26765	821.5	0.486	0.686
		10	26740	819	0.685	0.964
	16QAM	1.4	26697	814.7	0.259	0.389
			26740	819	0.270	0.398
			26783	823.3	0.271	0.383
		3	26705	815.5	0.317	0.456
			26740	819	0.333	0.468
			26775	822.5	0.332	0.475
		5	26715	816.5	0.476	0.643
			26740	819	0.472	0.679
			26765	821.5	0.475	0.660
		10	26740	819	0.670	0.942
100%	QPSK	1.4	26697	814.7	1.099	1.284
			26740	819	1.097	1.282
			26783	823.3	1.097	1.298
		3	26705	815.5	2.709	2.981
			26740	819	2.698	3.023
			26775	822.5	2.714	2.991
		5	26715	816.5	4.526	4.962
			26740	819	4.525	4.955
			26765	821.5	4.517	4.938
		10	26740	819	8.972	9.937

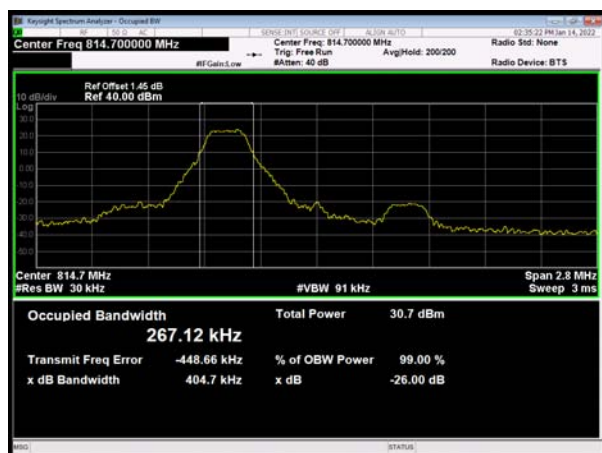


	16QAM	1.4	26697	814.7	1.099	1.291
			26740	819	1.103	1.296
			26783	823.3	1.093	1.287
		3	26705	815.5	2.692	2.988
			26740	819	2.689	2.994
			26775	822.5	2.694	3.012
		5	26715	816.5	4.516	4.940
			26740	819	4.513	5.055
			26765	821.5	4.524	5.061
		10	26740	819	8.981	9.778

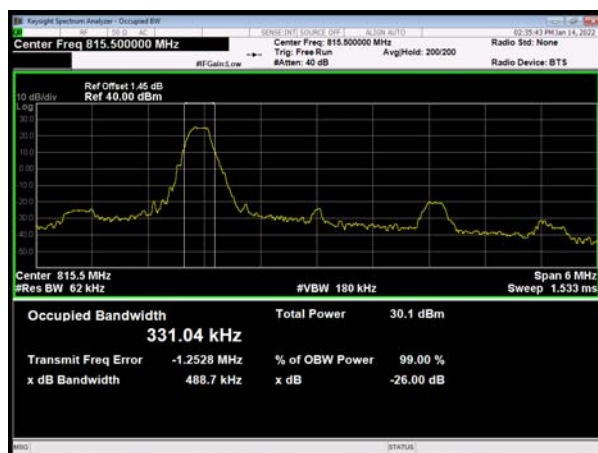


1 RB

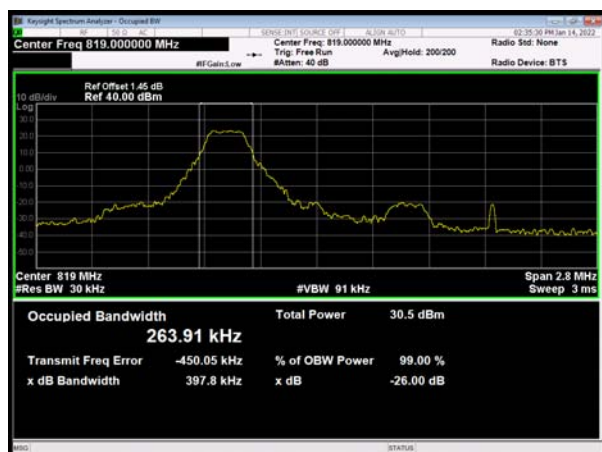
LTE Band 26 QPSK 1.4MHz CH Low



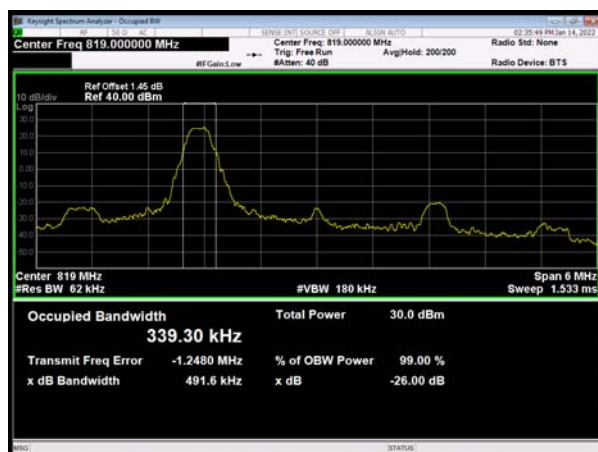
LTE Band 26 QPSK 3MHz CH Low



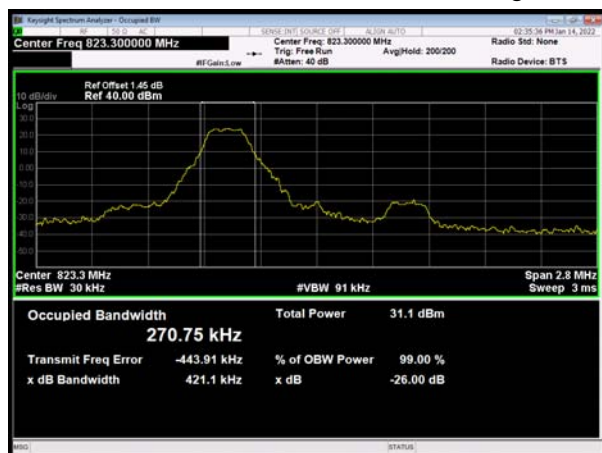
LTE Band 26 QPSK 1.4MHz CH Middle



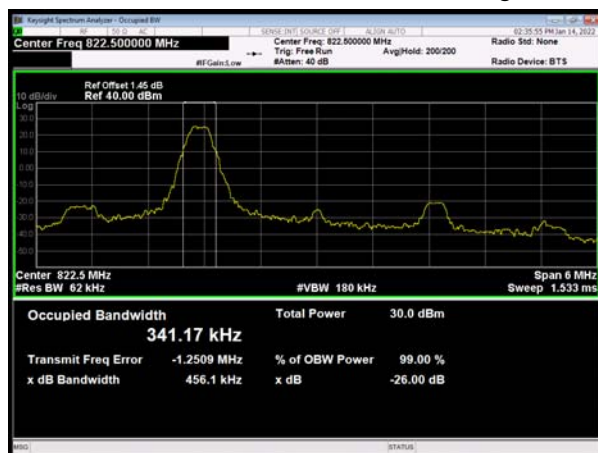
LTE Band 26 QPSK 3MHz CH Middle



LTE Band 26 QPSK 1.4MHz CH High

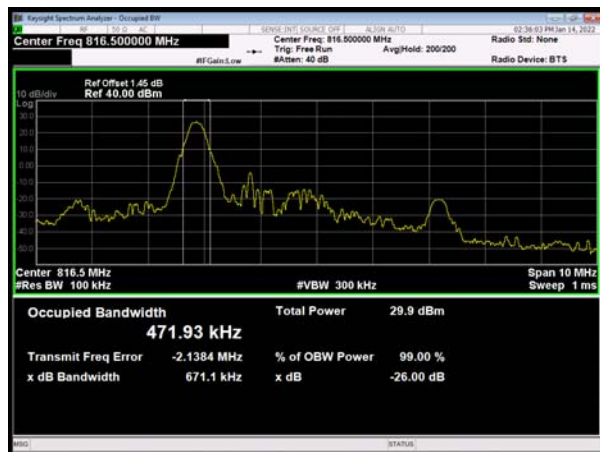


LTE Band 26 QPSK 3MHz CH High

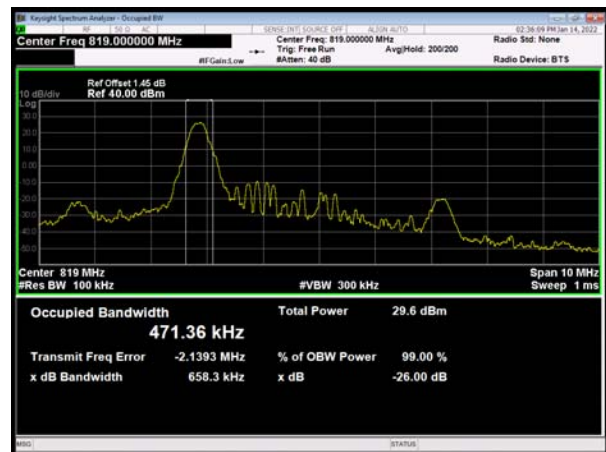




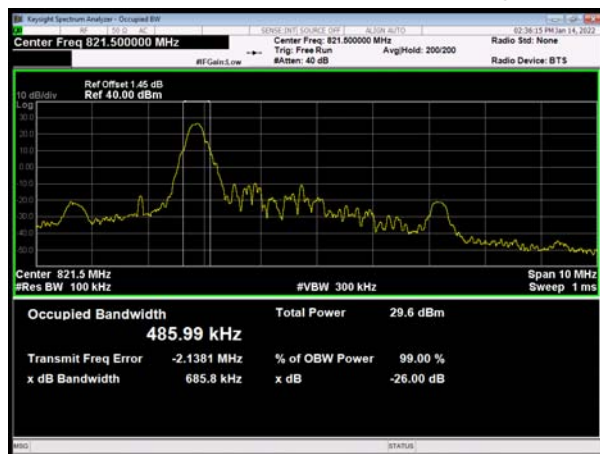
LTE Band 26 QPSK 5MHz CH Low



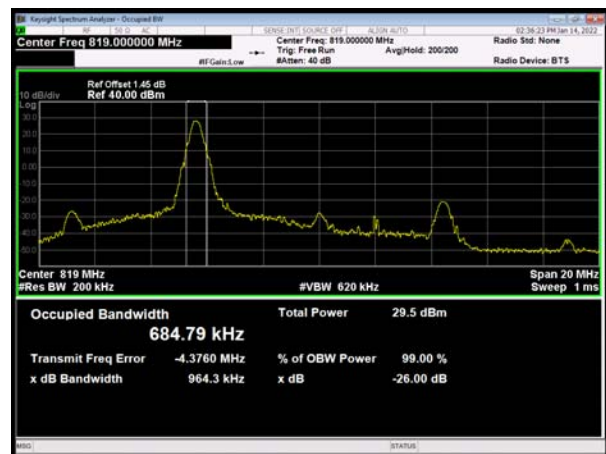
LTE Band 26 QPSK 5MHz CH Middle



LTE Band 26 QPSK 5MHz CH High



LTE Band 26 QPSK 10MHz CH Middle

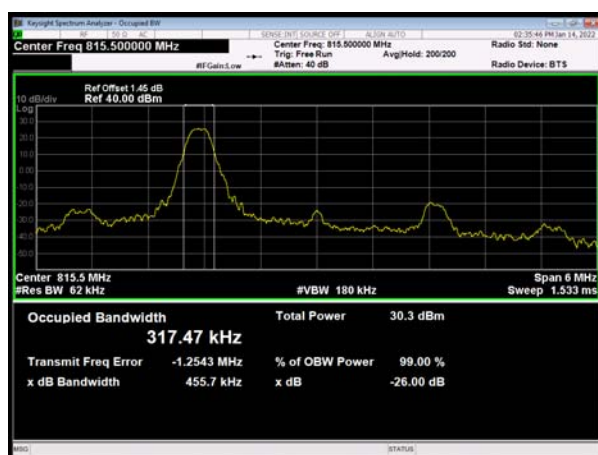




LTE Band 26 16QAM 1.4MHz CH Low



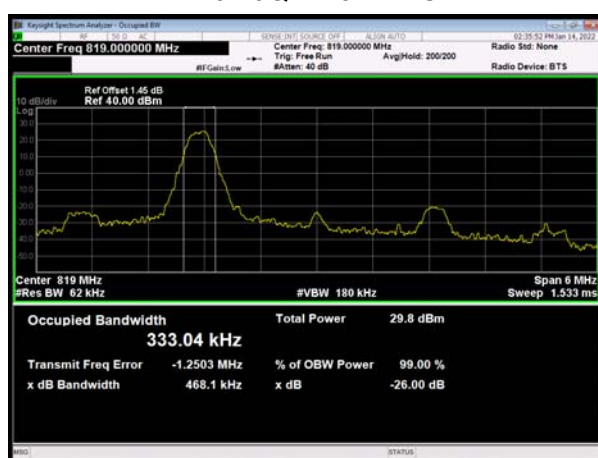
LTE Band 26 16QAM 3MHz CH Low



LTE Band 26 16QAM 1.4MHz CH Middle



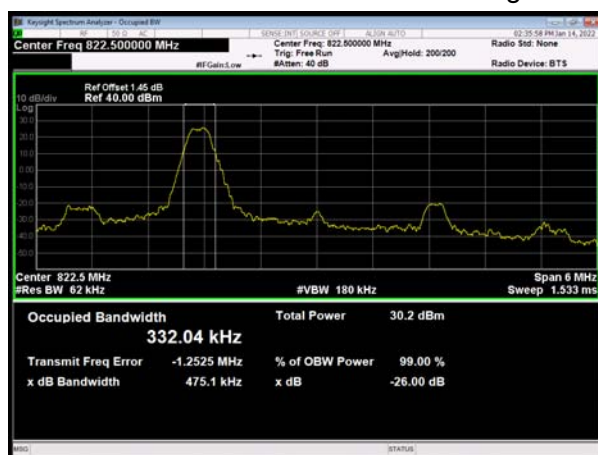
LTE Band 26 16QAM 3MHz CH Middle



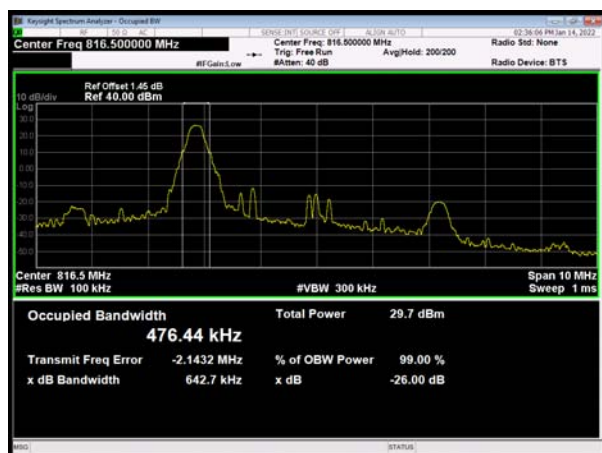
LTE Band 26 16QAM 1.4MHz CH High



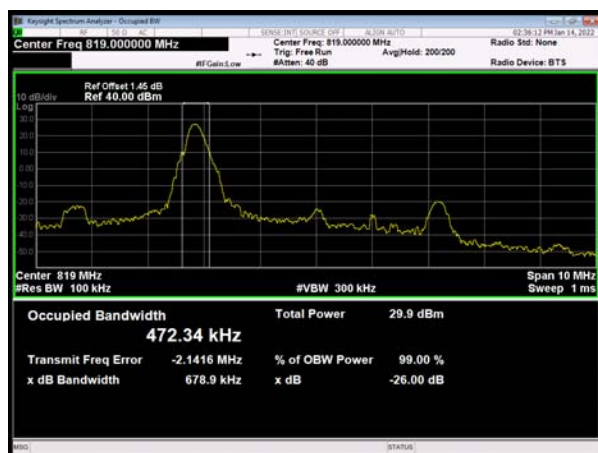
LTE Band 26 16QAM 3MHz CH High



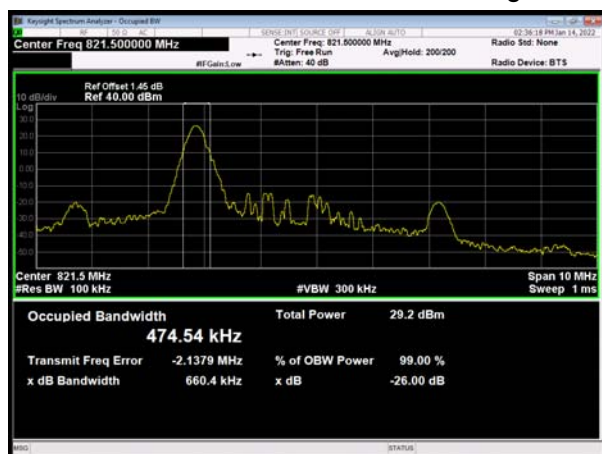
LTE Band 26 16QAM 5MHz CH Low



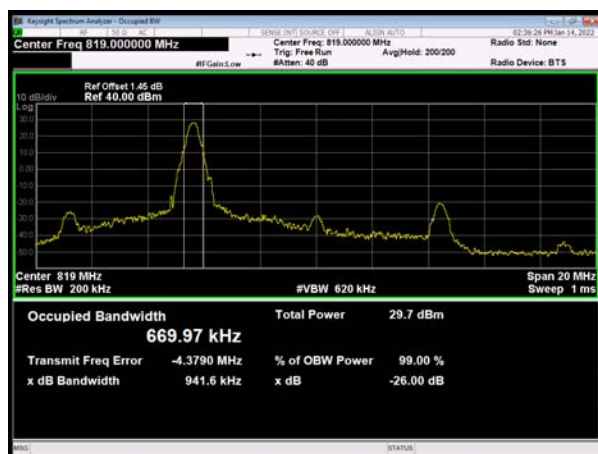
LTE Band 26 16QAM 5MHz CH Middle



LTE Band 26 16QAM 5MHz CH High



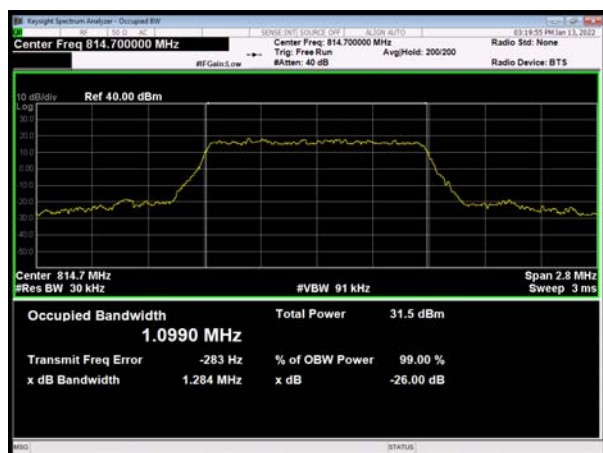
LTE Band 26 16QAM 10MHz CH Middle



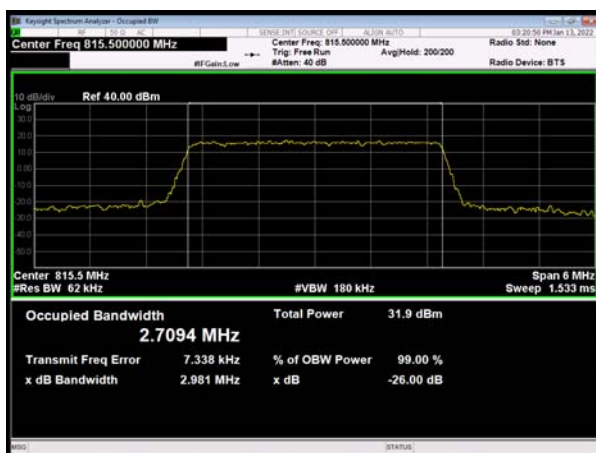


100% RB

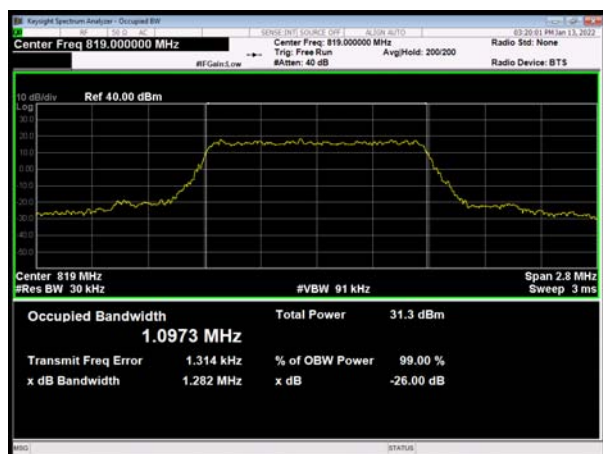
LTE Band 26 QPSK 1.4MHz CH Low



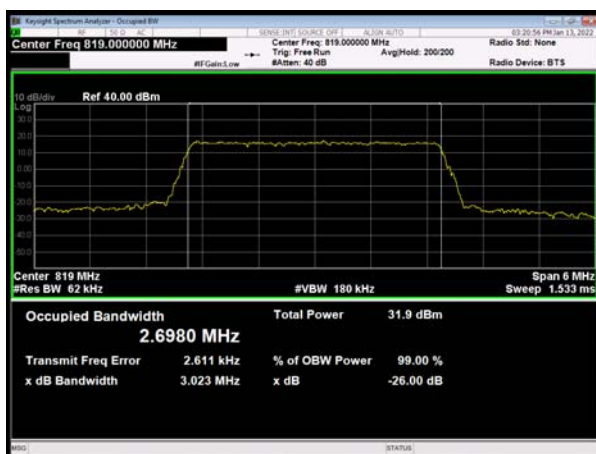
LTE Band 26 QPSK 3MHz CH Low



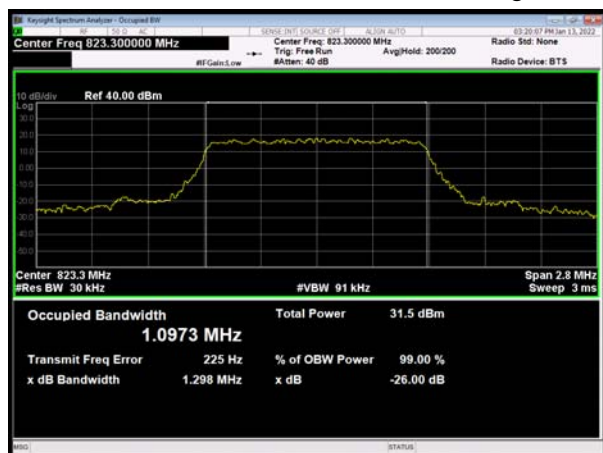
LTE Band 26 QPSK 1.4MHz CH Middle



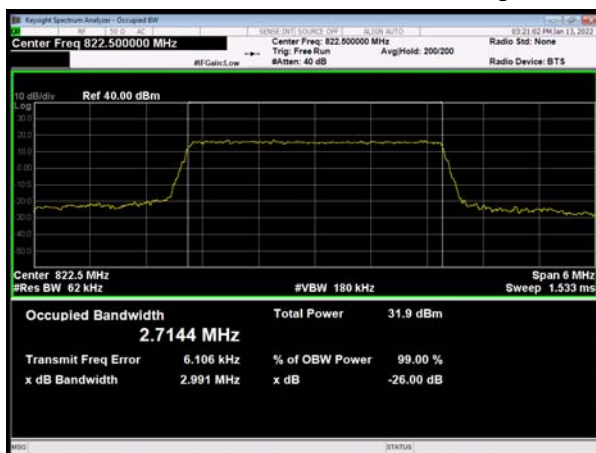
LTE Band 26 QPSK 3MHz CH Middle



LTE Band 26 QPSK 1.4MHz CH High

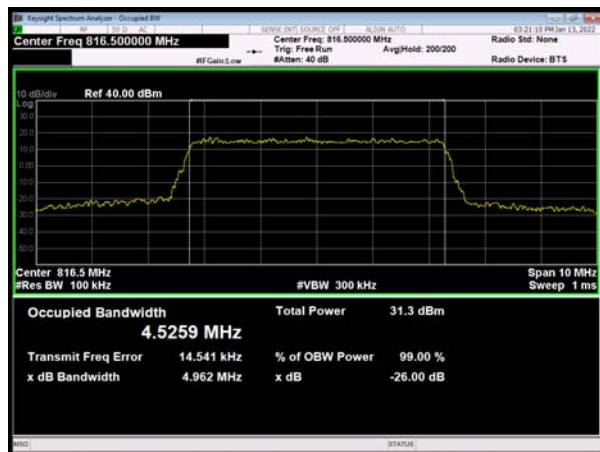


LTE Band 26 QPSK 3MHz CH High





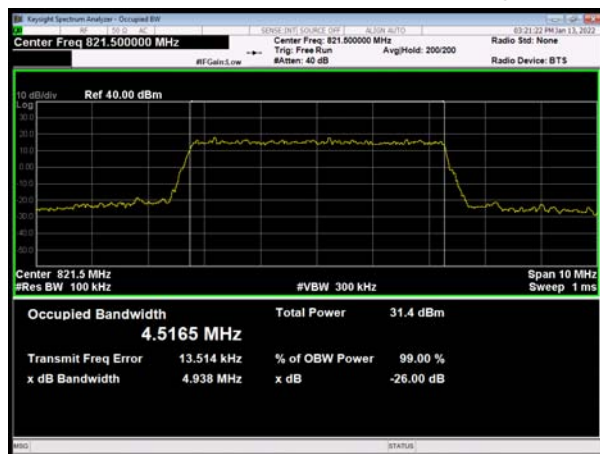
LTE Band 26 QPSK 5MHz CH Low



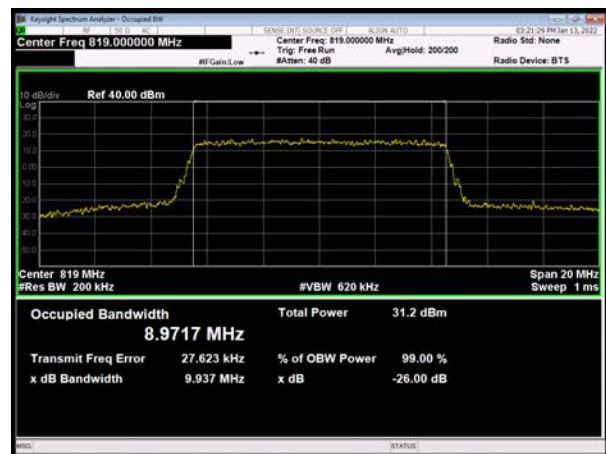
LTE Band 26 QPSK 5MHz CH Middle



LTE Band 26 QPSK 5MHz CH High



LTE Band 26 QPSK 10MHz CH Middle

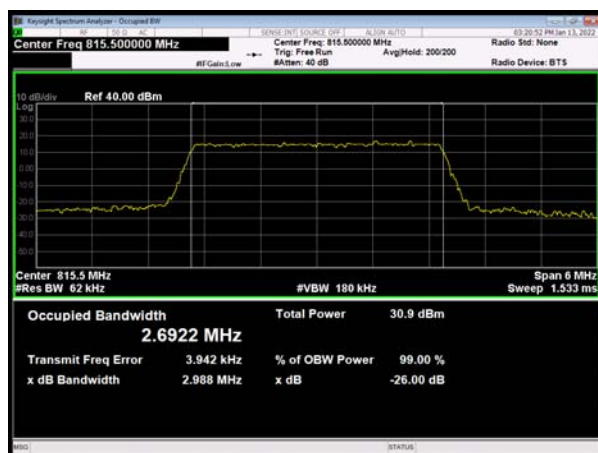




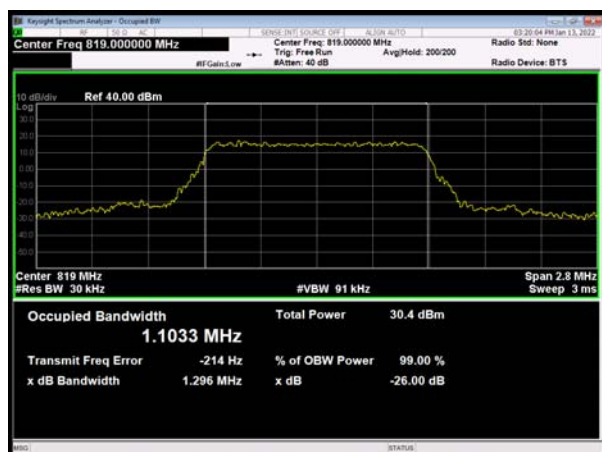
LTE Band 26 16QAM 1.4MHz CH Low



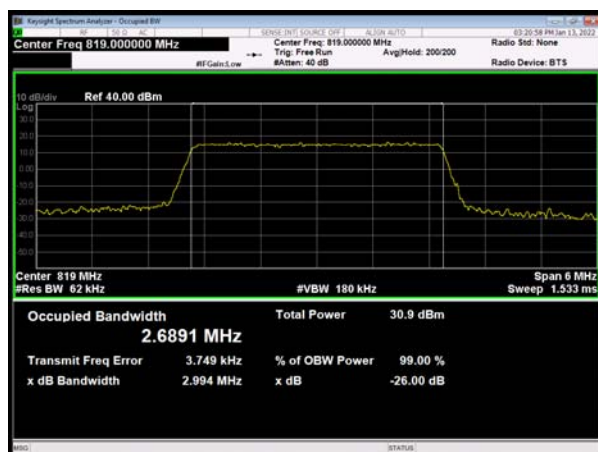
LTE Band 26 16QAM 3MHz CH Low



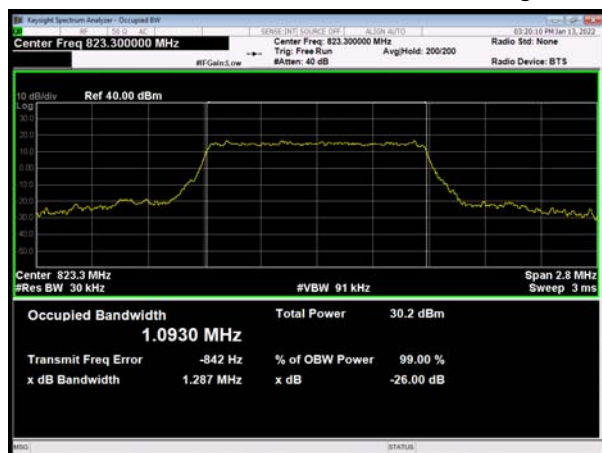
LTE Band 26 16QAM 1.4MHz CH Middle



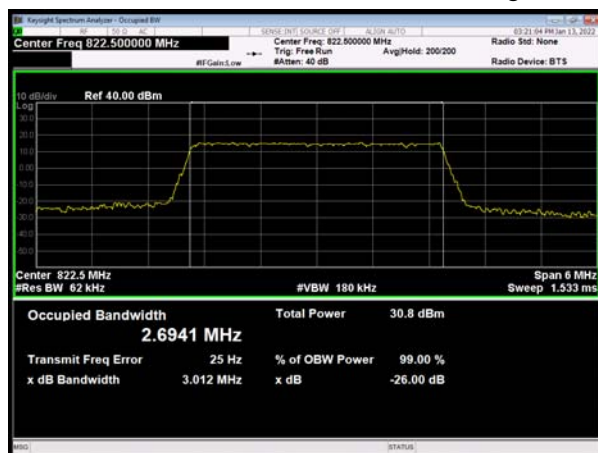
LTE Band 26 16QAM 3MHz CH Middle



LTE Band 26 16QAM 1.4MHz CH High

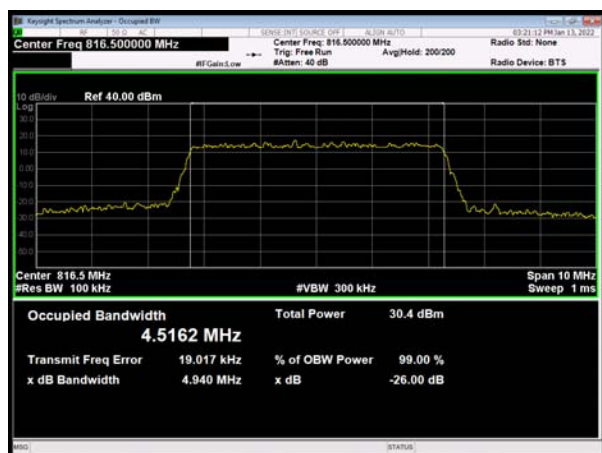


LTE Band 26 16QAM 3MHz CH High

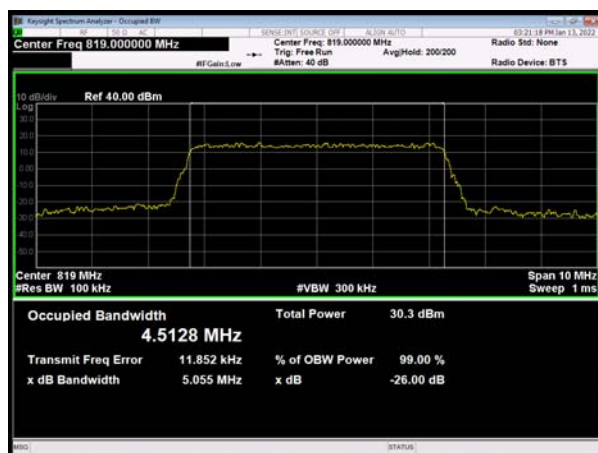




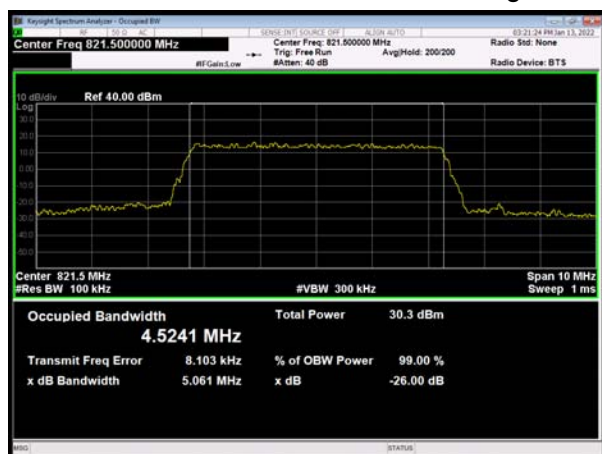
LTE Band 26 16QAM 5MHz CH Low



LTE Band 26 16QAM 5MHz CH Middle



LTE Band 26 16QAM 5MHz CH High



LTE Band 26 16QAM 10MHz CH Middle



5.3. Emission Mask

Ambient condition

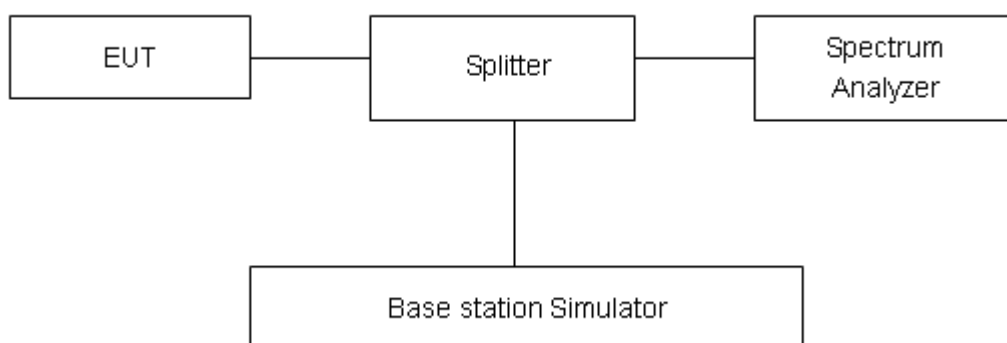
Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used. For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 90.691(a) specifies that “ For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684\text{dB}$.



Test Result:

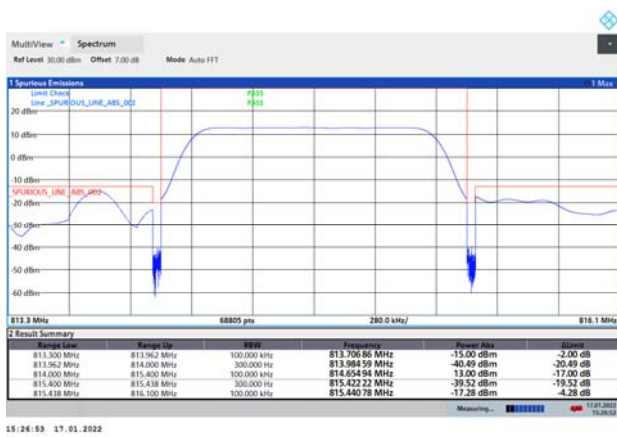
LTE Band 26 QPSK 1.4MHz CH-Low 1RB



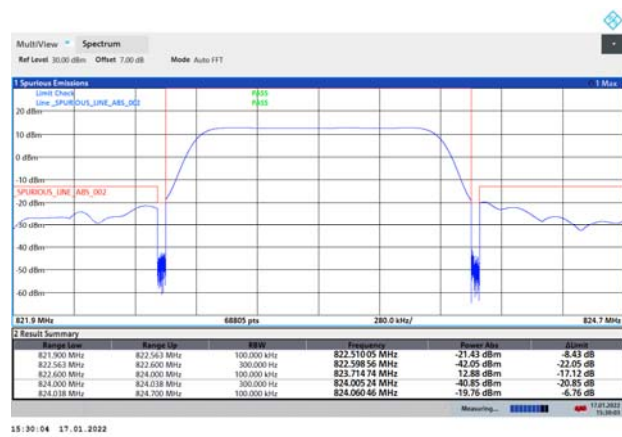
LTE Band 26 QPSK 1.4MHz CH-High 1RB



LTE Band 26 QPSK 1.4MHz CH-Low 100%RB



LTE Band 26 QPSK 1.4MHz CH-High 100%RB



LTE Band 26 QPSK 3MHz CH-Low 1RB

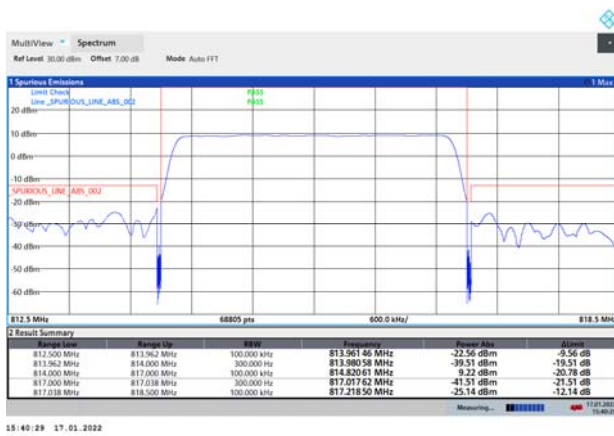


LTE Band 26 QPSK 3MHz CH-High 1RB

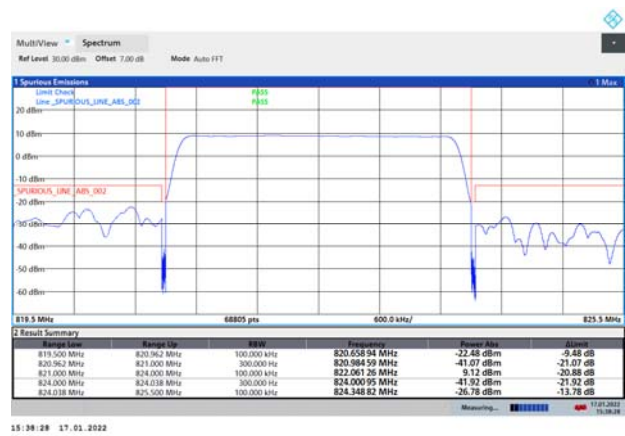




LTE Band 26 QPSK 3MHz CH-Low 100%RB



LTE Band 26 QPSK 3MHz CH-High 100%RB



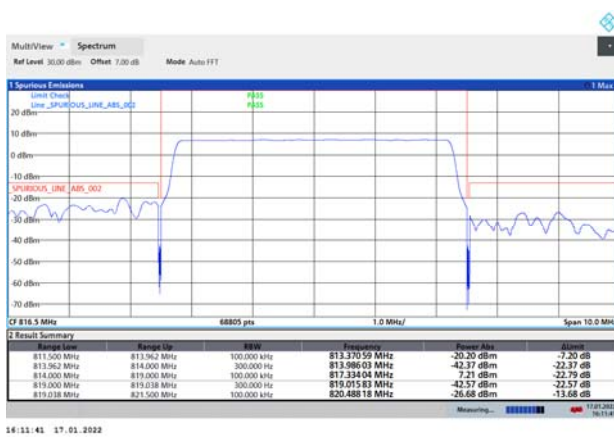
LTE Band 26 QPSK 5MHz CH-Low 1RB



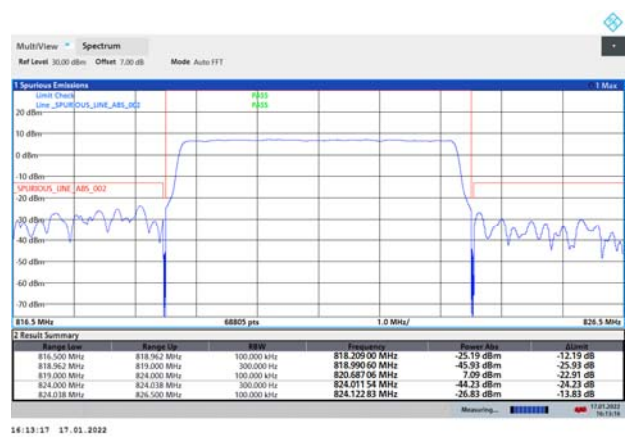
LTE Band 26 QPSK 5MHz CH-High 1RB



LTE Band 26 QPSK 5MHz CH-Low 100%RB

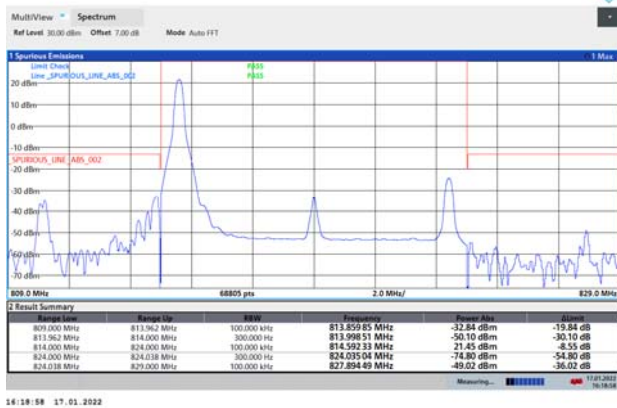


LTE Band 26 QPSK 5MHz CH-High 100%RB

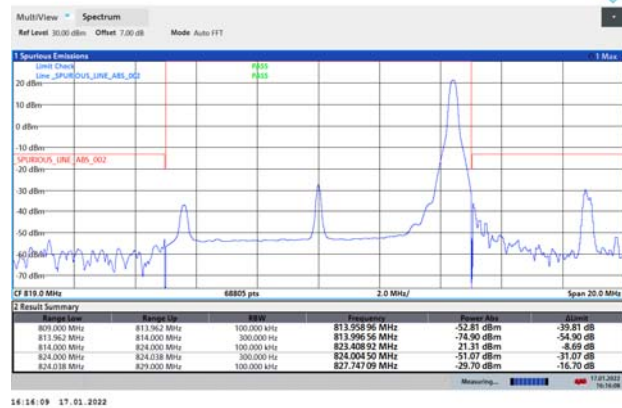




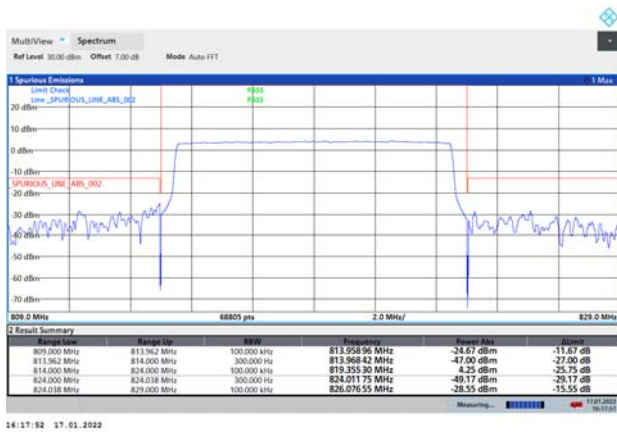
LTE Band 26 QPSK 10MHz CH-Low 1RB



LTE Band 26 QPSK 10MHz CH-High 1RB



LTE Band 26 QPSK 10MHz CH-Middle100%RB





LTE Band 26 16QAM 1.4MHz CH-Low 1RB



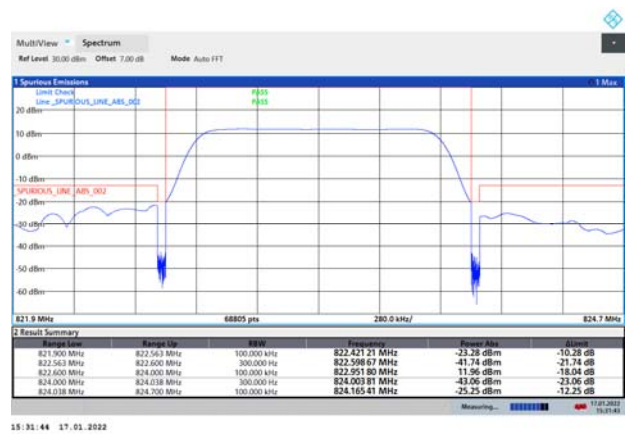
LTE Band 26 16QAM 1.4MHz CH-High 1RB



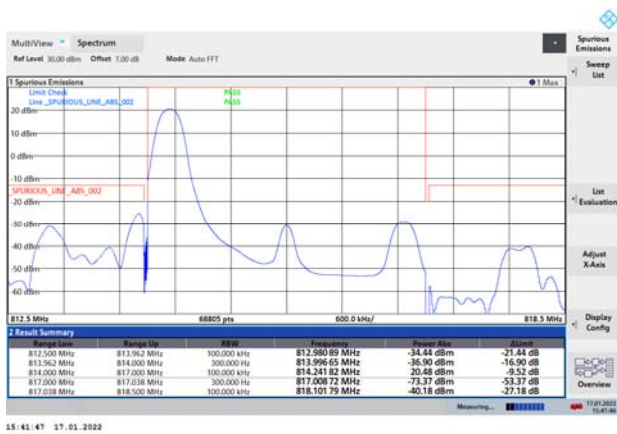
LTE Band 26 16QAM 1.4MHz CH-Low 100%RB



LTE Band 26 16QAM 1.4MHz CH-High 100%RB



LTE Band 26 16QAM 3MHz CH-Low 1RB

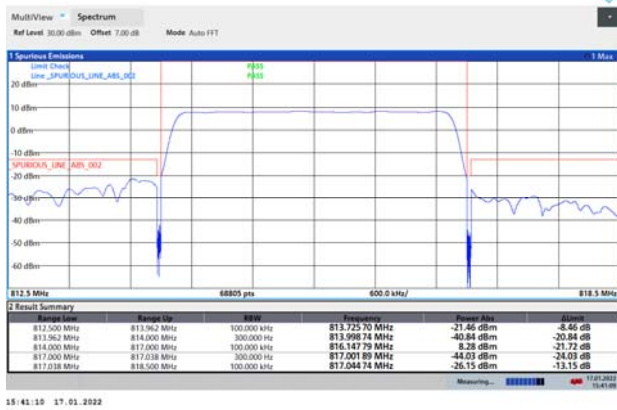


LTE Band 26 16QAM 3MHz CH-High 1RB





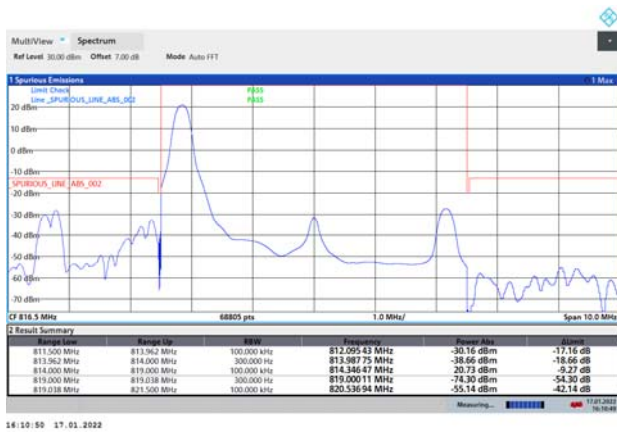
LTE Band 26 16QAM 3MHz CH-Low 100%RB



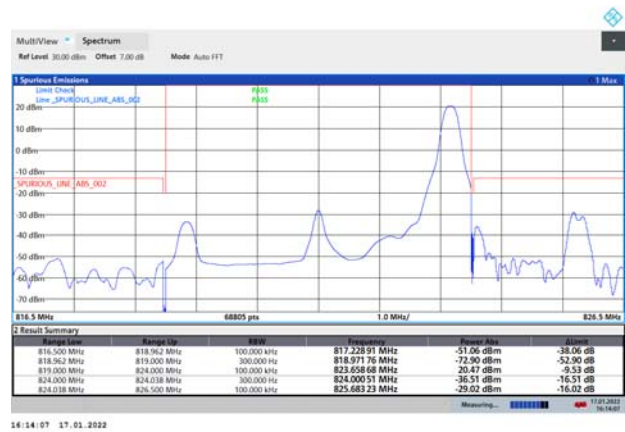
LTE Band 26 16QAM 3MHz CH-High 100%RB



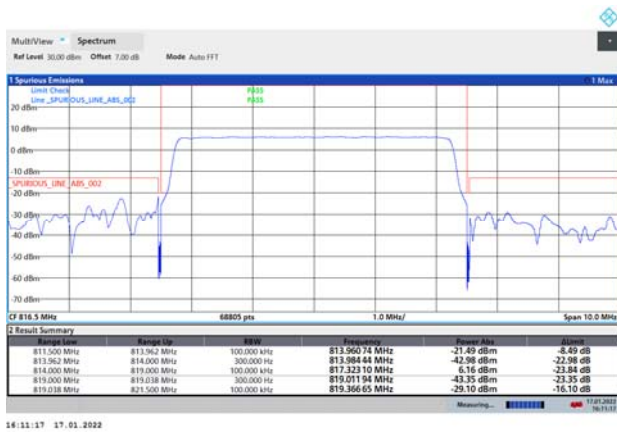
LTE Band 26 16QAM 5MHz CH-Low 1RB



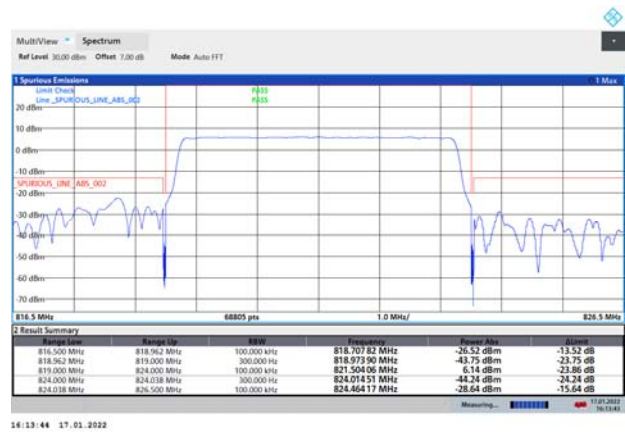
LTE Band 26 16QAM 5MHz CH-High 1RB



LTE Band 26 16QAM 5MHz CH-Low 100%RB



LTE Band 26 16QAM 5MHz CH-High 100%RB

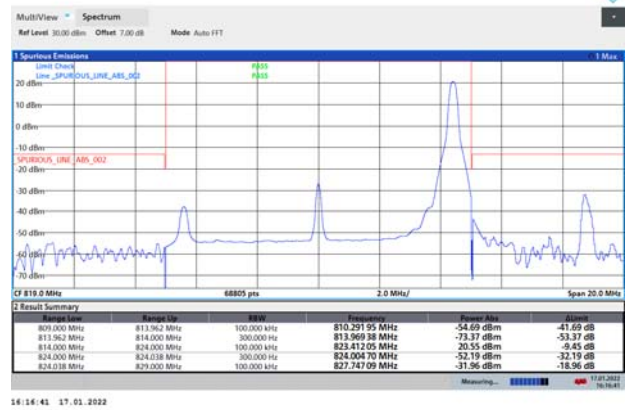
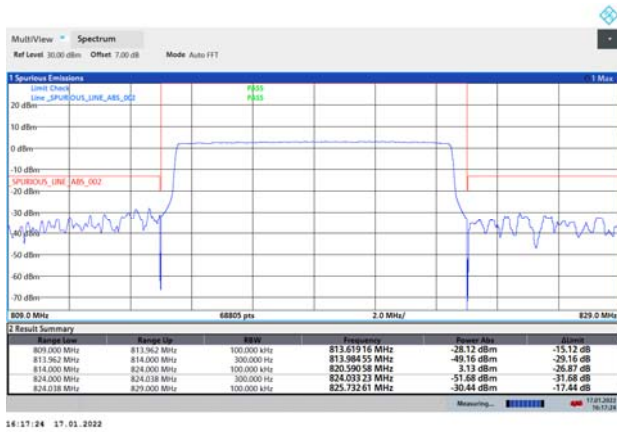




LTE Band 26 16QAM 10MHz CH-Low 1RB



LTE Band 26 16QAM 10MHz CH-High 1RB

LTE Band 26 16QAM 10MHz CH-Middle
100%RB

5.4. Peak-to-Average Power Ratio (PAPR)

Ambient condition

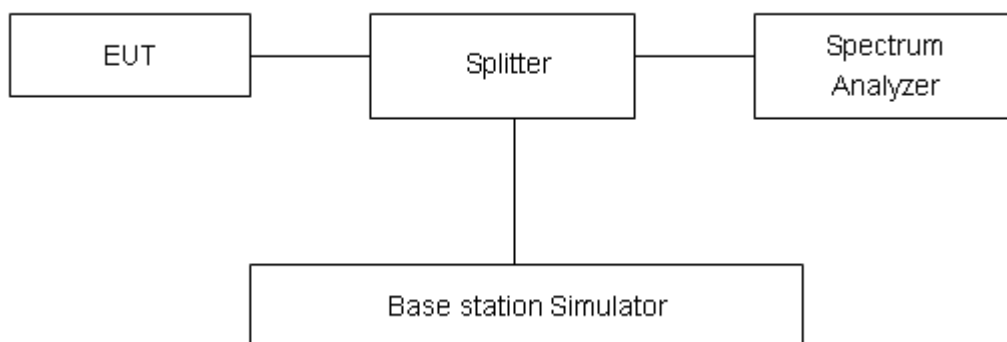
Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$PAPR (dB) = PPk (dBm) - PAvg (dBm)$.

Test Setup



Limits

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 in 24.232(d).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

**Test Results**

LTE Band 26								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	26697	814.7	28.53	23.34	5.19	≤13	PASS
		26740	819	28.73	23.35	5.38	≤13	PASS
		26783	823.3	28.84	23.42	5.42	≤13	PASS
	3	26705	815.5	28.74	23.43	5.31	≤13	PASS
		26740	819	28.69	23.36	5.33	≤13	PASS
		26775	822.5	28.81	23.32	5.49	≤13	PASS
	5	26715	816.5	28.61	23.28	5.33	≤13	PASS
		26740	819	28.83	23.42	5.41	≤13	PASS
		26765	821.5	28.71	23.36	5.35	≤13	PASS
	10	26740	819	28.56	23.35	5.21	≤13	PASS
16QAM	1.4	26697	814.7	28.38	22.30	6.08	≤13	PASS
		26740	819	28.52	22.33	6.19	≤13	PASS
		26783	823.3	28.65	22.48	6.17	≤13	PASS
	3	26705	815.5	28.56	22.42	6.14	≤13	PASS
		26740	819	28.54	22.34	6.20	≤13	PASS
		26775	822.5	28.56	22.36	6.20	≤13	PASS
	5	26715	816.5	28.45	22.38	6.07	≤13	PASS
		26740	819	28.52	22.40	6.12	≤13	PASS
		26765	821.5	28.49	22.33	6.16	≤13	PASS
	10	26740	819	28.35	22.32	6.03	≤13	PASS

5.5. Frequency Stability

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from 0°C to +35°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from 0°C to +35°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

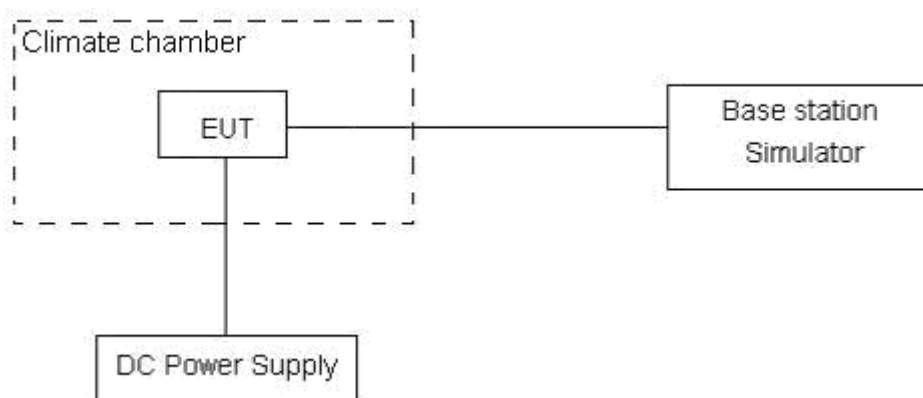
2. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.60 V and 4.45 V, with a nominal voltage of 3.87V.

Test setup



Limits

According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Minimum Frequency Stability

[Parts per million (ppm)]

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
814 ~ 824	1.5	2.5	2.5

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01\text{ppm}$.



Test Result

LTE Band 26						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	1.56	9.57	0.00191	0.01168	PASS
Extreme (35℃)		2.72	14.05	0.00332	0.01715	PASS
Extreme (30℃)		2.98	11.89	0.00364	0.01452	PASS
Extreme (20℃)		9.96	13.69	0.01217	0.01672	PASS
Extreme (10℃)		12.03	2.17	0.01468	0.00265	PASS
Extreme (0℃)		1.11	10.85	0.00135	0.01324	PASS
25℃	LV	10.82	17.84	0.01321	0.02178	PASS
	HV	16.82	17.38	0.02054	0.02123	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	15.54	1.93	0.01897	0.00236	PASS
Extreme (35℃)		5.67	4.24	0.00692	0.00518	PASS
Extreme (30℃)		12.07	7.62	0.01474	0.00930	PASS
Extreme (20℃)		1.95	7.41	0.00238	0.00904	PASS
Extreme (10℃)		6.89	10.94	0.00841	0.01335	PASS
Extreme (0℃)		8.02	2.16	0.00979	0.00263	PASS
25℃	LV	14.81	4.39	0.01809	0.00537	PASS
	HV	9.24	6.31	0.01128	0.00770	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	5.28	11.48	0.00645	0.01402	PASS
Extreme (35℃)		7.92	13.30	0.00968	0.01624	PASS
Extreme (30℃)		13.08	3.85	0.01597	0.00470	PASS
Extreme (20℃)		11.88	15.29	0.01450	0.01867	PASS
Extreme (10℃)		1.15	7.33	0.00140	0.00895	PASS
Extreme (0℃)		12.73	5.98	0.01555	0.00730	PASS
25℃	LV	17.01	16.60	0.02076	0.02027	PASS
	HV	5.00	6.34	0.00610	0.00774	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	



Normal (25℃)	Normal	15.21	3.98	0.01857	0.00486	PASS
Extreme (35℃)		13.73	9.88	0.01676	0.01207	PASS
Extreme (30℃)		9.53	17.82	0.01164	0.02175	PASS
Extreme (20℃)		17.31	11.07	0.02114	0.01351	PASS
Extreme (10℃)		17.94	14.03	0.02190	0.01713	PASS
Extreme (0℃)		16.76	4.95	0.02046	0.00604	PASS
25℃	LV	7.56	5.11	0.00923	0.00624	PASS
	HV	6.36	11.10	0.00777	0.01356	PASS

5.6. Spurious Emissions at Antenna Terminals

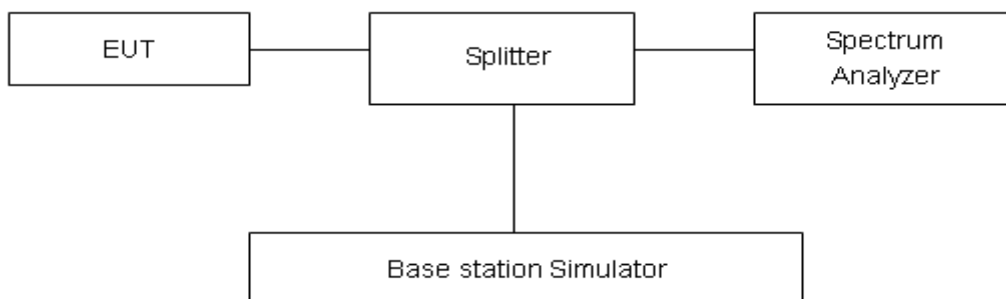
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, RBW is set to 1 kHz (0.009MHz~ 0.15 MHz), RBW is set to 10 kHz (0.15 MHz~ 30 MHz) RBW is set to 100 kHz (30MHz~1000 MHz) RBW is set to 1000 kHz (above 1000MHz) Sweep is set to ATUO.

Test setup



Limits

Rule Part 90.691 specifies that “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.”

Limit	-13 dBm
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Measurement Uncertainty

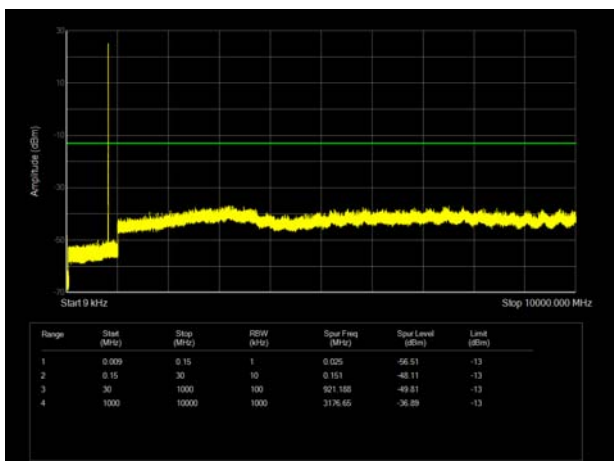
The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-10GHz	1.407 dB

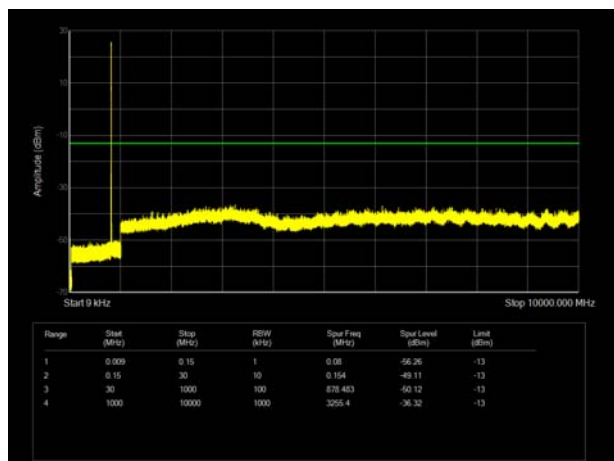
Test Result

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.
The signal beyond the limit is carrier.

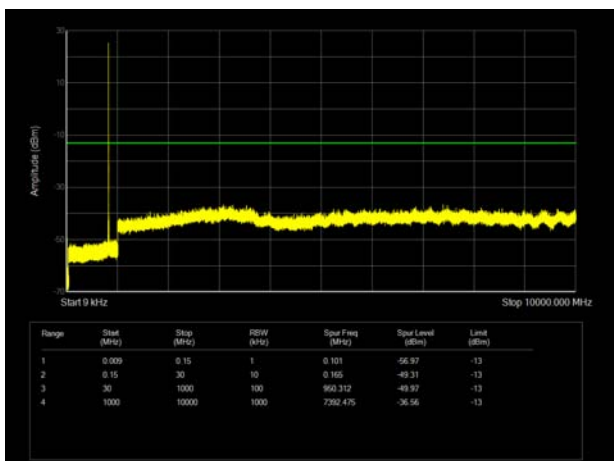
LTE Band 26 1.4MHz CH-Low 9kHz~10GHz



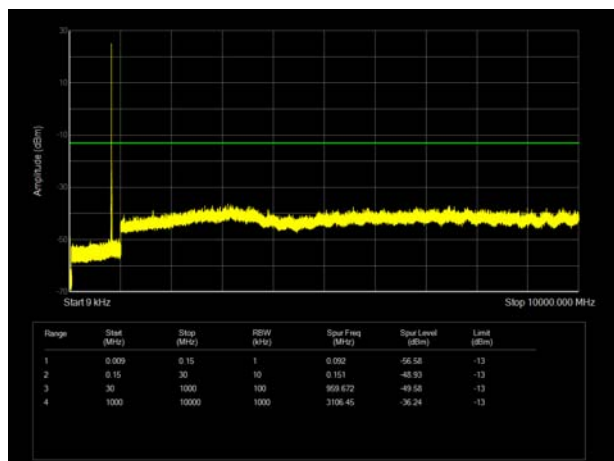
LTE Band 26 3MHz CH-Low 9kHz~10GHz



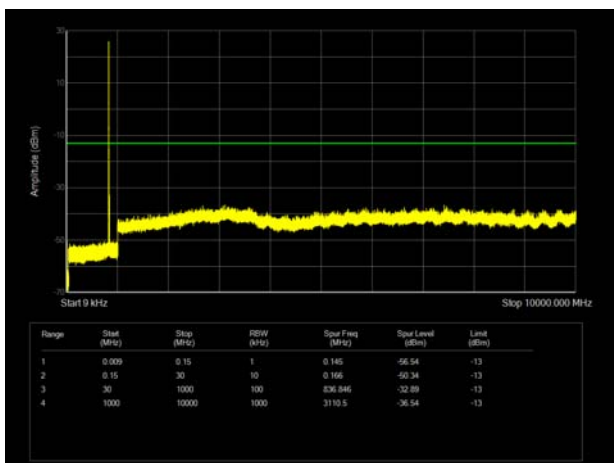
LTE Band 26 1.4MHz CH-Middle 9kHz~10GHz



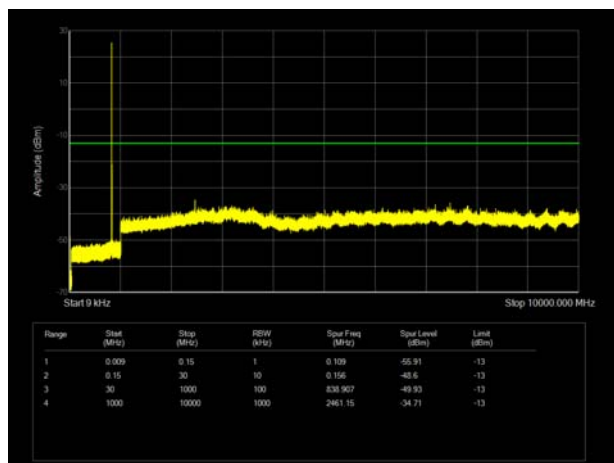
LTE Band 26 3MHz CH-Middle 9kHz~10GHz



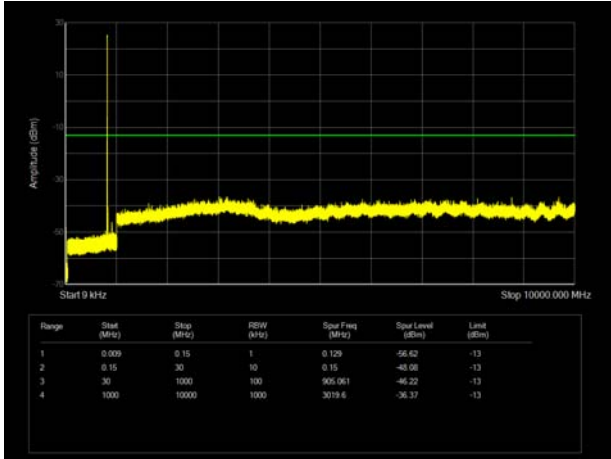
LTE Band 26 1.4MHz CH-High 9kHz~10GHz



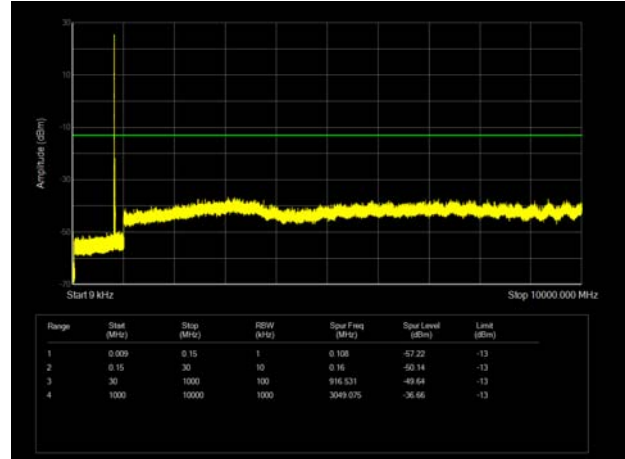
LTE Band 26 3MHz CH-High 9kHz~10GHz



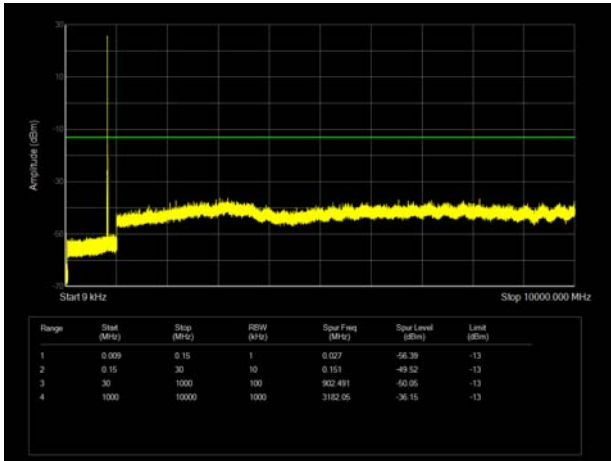
LTE Band 26 5MHz CH-Low 9kHz~10GHz



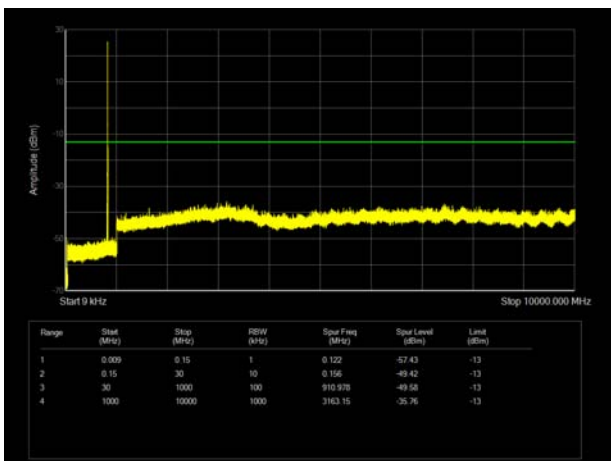
LTE Band 26 10MHz CH- Middle 9kHz~10GHz



LTE Band 26 5MHz CH-Middle 9kHz~10GHz



LTE Band 26 5MHz CH-High 9kHz~10GHz



5.7. Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz,VBW=300kHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

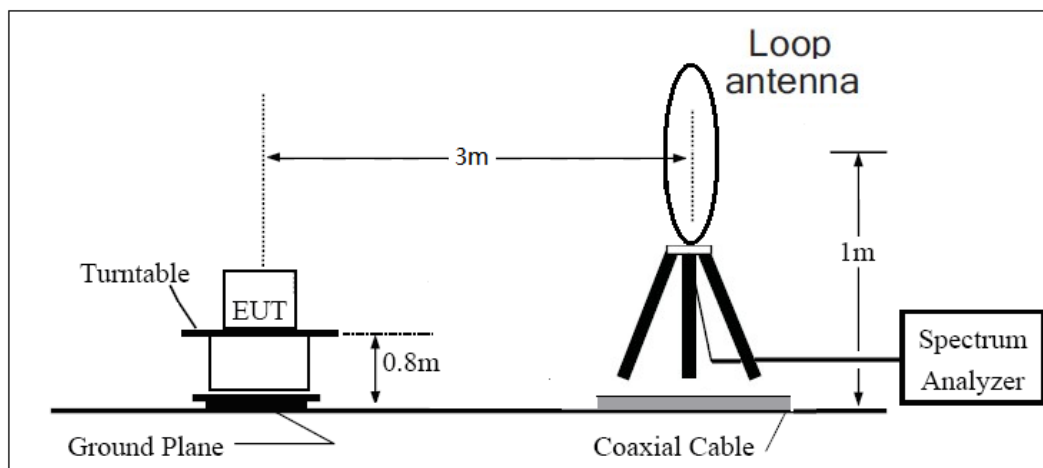
The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

= EIRP-2.15dBi.

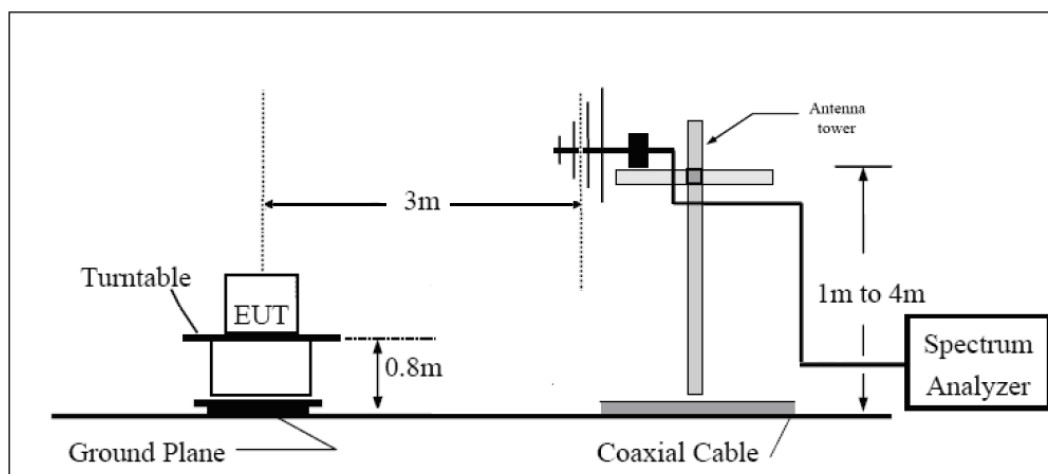
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

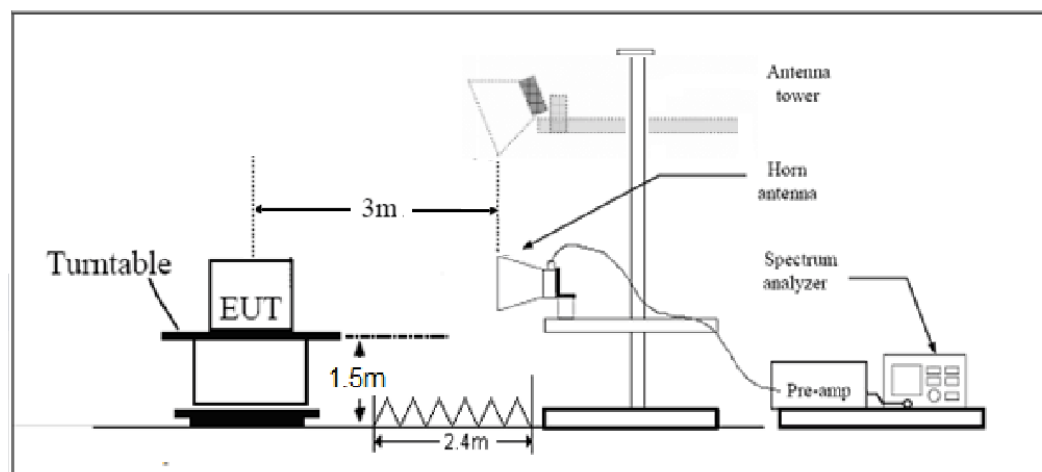
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Limits

Rule Part 90.691 specifies that “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.”

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

Test Result

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 26 1.4MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1636.88	-63.83	1.70	8.70	Horizontal	-58.98	-13.00	45.98	225
3	2455.50	-65.18	2.30	12.00	Horizontal	-57.63	-13.00	44.63	45
4	3346.00	-66.87	2.20	13.10	Horizontal	-58.12	-13.00	45.12	45
5	4182.50	-62.87	3.00	12.50	Horizontal	-55.52	-13.00	42.52	90
6	5019.00	-60.42	3.10	12.50	Horizontal	-53.17	-13.00	40.17	270
7	5855.50	-59.14	3.40	12.50	Horizontal	-52.19	-13.00	39.19	225
8	6692.00	-60.20	3.80	11.50	Horizontal	-54.65	-13.00	41.65	315
9	7528.50	-55.10	4.20	12.20	Horizontal	-49.25	-13.00	36.25	315
10	8365.00	-56.37	4.30	12.30	Horizontal	-50.52	-13.00	37.52	90
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Horizontal position.									

LTE Band 26 5MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1633.69	-63.19	1.70	8.70	Horizontal	-58.34	-13.00	45.34	180
3	2450.63	-67.05	2.30	12.00	Horizontal	-59.50	-13.00	46.50	90
4	3276.00	-65.51	2.20	13.10	Horizontal	-56.76	-13.00	43.76	315
5	4095.00	-62.54	3.00	12.50	Horizontal	-55.19	-13.00	42.19	225
6	4914.00	-60.30	3.10	12.50	Horizontal	-53.05	-13.00	40.05	225
7	5733.00	-59.17	3.40	12.50	Horizontal	-52.22	-13.00	39.22	180
8	6552.00	-59.04	3.80	11.50	Horizontal	-53.49	-13.00	40.49	180
9	7371.00	-56.27	4.20	12.20	Horizontal	-50.42	-13.00	37.42	180
10	8190.00	-54.40	4.30	12.30	Horizontal	-48.55	-13.00	35.55	180
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Horizontal position.									

LTE Band 26 10MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1629.38	-62.36	1.70	8.70	Horizontal	-57.51	-13.00	44.51	90
3	2443.88	-64.83	2.30	12.00	Horizontal	-57.28	-13.00	44.28	225
4	3276.00	-64.99	2.20	13.10	Horizontal	-56.24	-13.00	43.24	45
5	4095.00	-63.53	3.00	12.50	Horizontal	-56.18	-13.00	43.18	180
6	4914.00	-60.50	3.10	12.50	Horizontal	-53.25	-13.00	40.25	180
7	5733.00	-60.80	3.40	12.50	Horizontal	-53.85	-13.00	40.85	315
8	6552.00	-58.64	3.80	11.50	Horizontal	-53.09	-13.00	40.09	0
9	7371.00	-55.98	4.20	12.20	Horizontal	-50.13	-13.00	37.13	45
10	8190.00	-55.61	4.30	12.30	Horizontal	-49.76	-13.00	36.76	315

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2.The worst emission was found in the antenna is Horizontal position.



6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113645	2021-05-15	2022-05-14
Climate Chamber	Weiss	VT4002	58226119450010	2021-05-15	2022-05-14
Spectrum Analyzer	Keysight	N9020A	MY52330084	2021-05-15	2022-05-14
Universal Radio Communication Tester	Key sight	E5515C	GB44400275	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV3030	101411	2021-12-12	2022-12-12
Signal Analyzer	R&S	FSV30	100815	2021-12-12	2022-12-11
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01439	2021-06-30	2024-06-29
Horn Antenna	Schwarzbeck	BBHA 9120D	01799	2019-09-21	2022-09-20
Software	R&S	EMC32	9.26.0	/	/

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.