



FCC Test Report Part 24 Subpart E

Report Reference No.: HK2501150317-6E

FCC ID.: 2BLWP-PH970G

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Date of issue: Feb. 26, 2025

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Applicant's name : Shenzhen Zecre Technology CO.,Ltd

Address : RM 501 BLDG B AREA C SHANGXUE INDUSTRIAL PARK, XINXUE
COMMUNITY, BANTIAN, LONGGANG, SHENZHEN, China

Test specification :

Standard : FCC CFR Title 47 Part 2, Part 24E

TRF Originator: Shenzhen HUAKE Testing Technology Co., Ltd.

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Test item description : Trail Camera

Trade Mark : N/A

Manufacturer : Shenzhen Zecre Technology CO.,Ltd

Model/Type reference: ph970G

Series Models : N/A

Modulation Type : QPSK, 16QAM

Rating : DC5V From Type-C or DC3.7V From Battery

Hardware version : V2.0

Software version: V2.0

Result: **PASS**

**TEST REPORT**

Test Report No. :	HK2501150317-6E	Feb. 26, 2025
		Date of issue

Equipment under Test : Trail Camera

Model /Type : ph970G

Series Models : N/A

Applicant : **Shenzhen Zecre Technology CO.,Ltd**

Address : RM 501 BLDG B AREA C SHANGXUE INDUSTRIAL
PARK, XINXUE COMMUNITY, BANTIAN, LONGGANG,
SHENZHEN, China

Manufacturer : **Shenzhen Zecre Technology CO.,Ltd**

Address : RM 501 BLDG B AREA C SHANGXUE INDUSTRIAL
PARK, XINXUE COMMUNITY, BANTIAN, LONGGANG,
SHENZHEN, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Feb. 26, 2025	Jason Zhou



1 Test Standards

The tests were performed according to following standards:

[FCC Part 24](#): PUBLIC MOBILE SERVICES

[TIA/EIA 603 D June 2010](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[47 CFR FCC Part 15 Subpart B](#): - Unintentional Radiators

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[KDB 971168 D01 v03r01](#): Measurement Guidance For Certification Of Licensed Digital Transmitters

[ANSI C63.4:2014](#): Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz



2 Summary

2.1 General Remarks

Date of receipt of test sample	:	Jan. 15, 2025
Testing commenced on	:	Jan. 15, 2025
Testing concluded on	:	Feb. 26, 2025

2.2 Product Description

The **Advanced Electronic Solutions Global Ltd.**'s Model:ph970G or the "EUT" as referred to in this report; more general information as follows,for more details, refer to the user's manual of the EUT.

Name of EUT	Trail Camera
Model/Type reference:	ph970G
Series Models:	N/A
Model Difference:	N/A
Power supply:	DC5V From Type-C or DC3.7V From Battery
Modulation Type	QPSK,16QAM
Antenna Type	External Antenna
Antenna Gain	1.71dBi
Operation Frequency Band	LTE Band 25
Operation frequency	LTE Band 25: 1850 to 1915MHz
LTE Release	R8
Extreme temp. Tolerance	-30°C to +70°C
Extreme vol. Limits	4.25VDC to5.75VDC (nominal: 5.0VDC)
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

2.3 Equipment under Test

Power supply system utilised

Power supply voltage	:	☐ 120V/ 60 Hz	☐ 115V/60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC5V From Type-C or DC3.7V From Battery

2.4 Short description of the Equipment under Test (EUT)

2.4.1 GeneralDescription

This is a Trail Camera.

For more details, refer to the user's manual of the EUT



2.5 Normal Accessory setting

Fully charged battery was used during the test.

2.6 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○ Power Cable	Length (m) :	/
	Shield :	/
	Detachable :	/
○ Multimeter	Manufacturer :	/
	Model No. :	/

2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2BLWP-PH970G** filing to comply with FCC Part 24, Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

2.9 General Test Conditions/Configurations

2.10.1 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	4.25V
	VN	5.0V
	VH	5.75V

NOTE: VL=lower extreme test voltage VN=nominal voltage
VH=upper extreme test voltage TN=normal temperature



3 Test Environment

3.1 Information of The Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.
FCC Designation Number is CN1229.
Canada IC CAB identifier is CN0045.
CNAS Registration Number is L9589.

3.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.3 Test Description

PCSBand (1850-1915MHz pairedwith 1930-1995MHz)

Test Item	FCCRuleNo.	Requirements	Verdict
Effective(Isotropic)RadiatedOutputPower	Part§2.1046, Part§24.232	EIRP ≤ 2W	Pass
Peak-AverageRatio	Part§2.1046, Part§24.232	FCC:Limit≤13dB	Pass
Bandwidth	Part§2.1049	OBW: Nolimit. EBW: Nolimit.	Pass
BandEdgesCompliance	Part§2.1051, Part§24.238	≤ -13dBm/1%*EBW, In1MHzbandsimmediatelyoutsideandadjacentto Thefrequency block.	Pass
SpuriousEmissionatAntennaTerminals	Part§2.1051, Part§24.238	≤-13dBm/1MHz, from9kHzto10thharmonicsbut outsideauthorized Operatingfrequency ranges.	Pass
Field Strengthof Spurious Radiation	Part§2.1053, Part§24.238	≤ -13dBm/1MHz.	Pass
Frequency Stability	Part§2.1055, Part§24.235	FCC:withinauthorizedfrequency block.	Pass

NOTE 1:For the verdict,the“N/A”denotes“not applicable”,the“N/T”denotes “nottested”.

Remark:

1. The measurement uncertainty is not included in the test result.



3.4 Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	2025/02/19
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	2025/02/19
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	2025/02/19
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2024/02/20	2025/02/19
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	2025/02/19
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	2025/02/19
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	2025/02/19
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	2025/02/19
9	6dB Attenuator	Pasternack	6db	HKE-184	2024/02/20	2025/02/19
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	2025/02/19
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2024/02/20	2025/02/19
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	2025/02/19
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	2025/02/19
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	2025/02/19
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	2025/06/09
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	2025/06/09
22	RF Test Software	Tonscend	JS1120 Version 3.1.46	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/



Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	2026/02/18
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	2026/02/18
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	2026/02/18
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2025/02/19	2026/02/18
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	2026/02/18
6	Preamplifier	EMCI	EMC051845S	HKE-006	2025/02/19	2026/02/18
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	2026/02/18
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	2026/02/18
9	6dB Attenuator	Pasternack	6db	HKE-184	2025/02/19	2026/02/18
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	2026/02/18
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2025/02/19	2026/02/18
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	2026/02/18
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	2026/02/18
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	2026/02/18
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	2025/06/09
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	2025/06/09
22	RF Test Software	Tonscend	JS1120 Version 3.1.46	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/



4 Test Conditions and Results

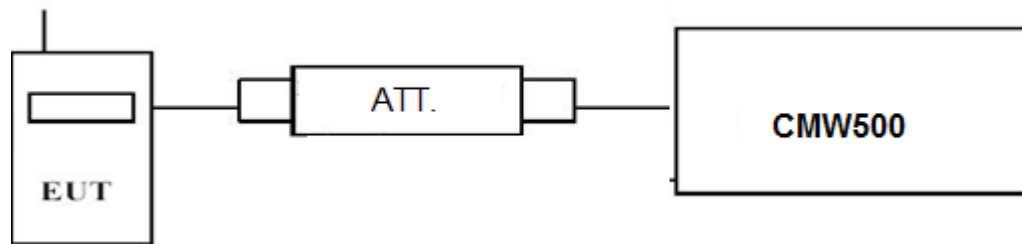
4.1 Output Power

4.1.1 Conducted Output Power

TEST APPLICABLE

During the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

TEST CONFIGURATION



TEST PROCEDURE

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a CMW500 by an Att.
- EUT Communicate with CMW500 then selects a channel for testing.
- Add a correction factor to the display CMW500, and then test.

TEST RESULTS

Remark:

- We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25;

LTE Band 25				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Burst Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1850.7	1 RB low	22.89	21.94
		1 RB high	22.87	22.09
		50% RB mid	22.71	21.79
		100% RB	22.84	21.70
	1882.5	1 RB low	22.92	21.67
		1 RB high	22.98	21.78
		50% RB mid	21.93	21.09
		100% RB	22.57	21.63
	1914.3	1 RB low	22.88	22.02
		1 RB high	22.80	21.73
		50% RB mid	22.87	21.57
		100% RB	22.86	21.55
3 MHz	1851.5	1 RB low	22.81	21.87
		1 RB high	22.96	21.96
		50% RB mid	22.94	22.00
		100% RB	21.99	21.08
	1882.5	1 RB low	22.01	21.15
		1 RB high	21.92	21.33
		50% RB mid	22.01	21.08



	1913.5	100% RB	22.87	21.78
		1 RB low	22.69	21.69
		1 RB high	22.80	21.86
		50% RB mid	21.89	21.00
		100% RB	21.91	21.01
5 MHz	1852.5	1 RB low	23.06	22.02
		1 RB high	23.21	22.00
		50% RB mid	23.04	21.99
		100% RB	22.96	21.03
	1882.5	1 RB low	21.98	21.04
		1 RB high	21.97	21.13
		50% RB mid	21.95	21.13
		100% RB	22.69	21.80
	1912.5	1 RB low	22.78	21.94
		1 RB high	22.86	21.84
		50% RB mid	21.91	20.78
		100% RB	21.83	21.00
10 MHz	1855.0	1 RB low	22.81	21.94
		1 RB high	23.22	22.22
		50% RB mid	22.61	21.77
		100% RB	22.05	/
	1882.5	1 RB low	22.05	21.02
		1 RB high	22.00	20.87
		50% RB mid	22.01	20.47
		100% RB	22.57	/
	1910	1 RB low	22.91	21.37
		1 RB high	22.83	20.97
		50% RB mid	21.83	20.64
		100% RB	21.84	/
15 MHz	1857.5	1 RB low	23.06	21.77
		1 RB high	23.05	20.71
		50% RB mid	22.67	20.38
		100% RB	22.00	/
	1882.5	1 RB low	22.00	20.64
		1 RB high	21.99	20.41
		50% RB mid	21.98	20.38
		100% RB	22.85	20.33
	1907.5	1 RB low	22.90	/
		1 RB high	23.05	21.34
		50% RB mid	22.00	20.39
		100% RB	22.00	/
20 MHz	1860.0	1 RB low	23.04	21.54
		1 RB high	23.43	21.95
		50% RB mid	23.18	/
		100% RB	22.18	/
	1882.5	1 RB low	22.22	20.83
		1 RB high	22.22	21.19
		50% RB mid	22.23	/
		100% RB	23.18	/
	1905	1 RB low	23.45	21.87
		1 RB high	22.66	20.89
		50% RB mid	22.18	/
		100% RB	22.14	/

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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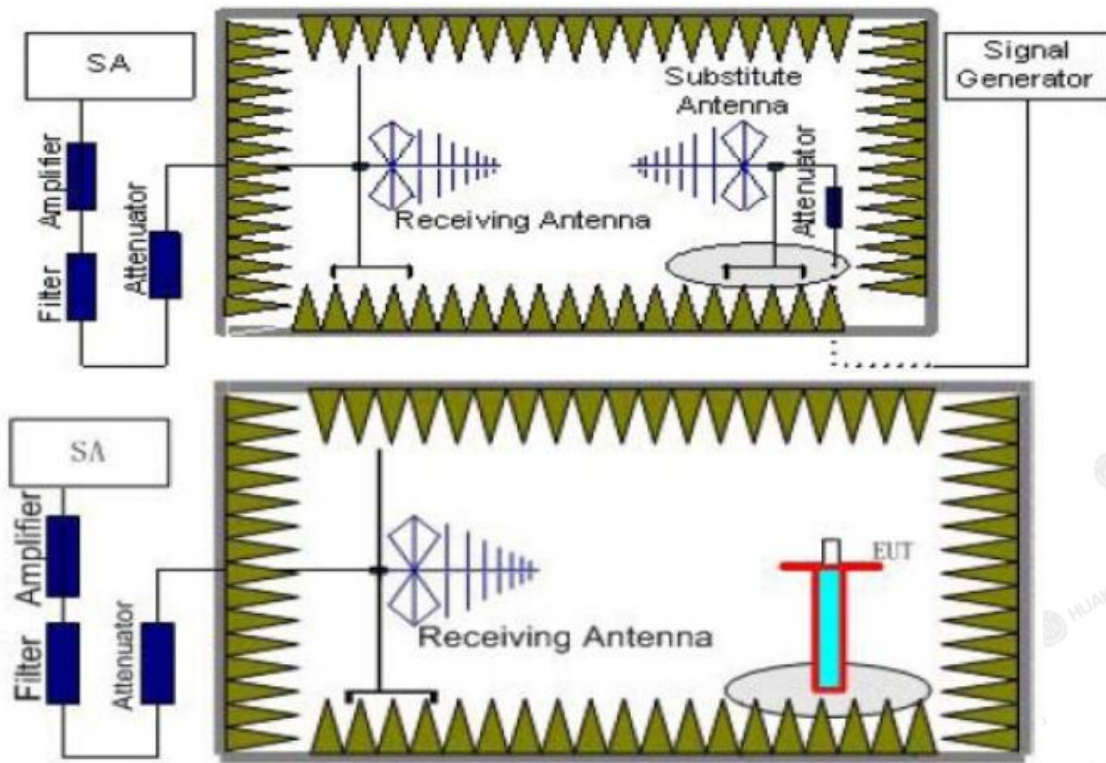
4.1.2. Radiated Output Power

LIMIT

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p.

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide 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.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
4. 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 (P_{Mea}) 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 (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.



5. 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 (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{\text{Mea}} - P_{\text{Ag}} - P_{\text{cl}} + G_a$$

We used SMF100A microwave signal generator which signal level can up to 33dBm, so we not used power Amplifier for substitution test; The measurement results are amend as described below:

$$\text{Power(EIRP)} = P_{\text{Mea}} - P_{\text{cl}} + G_a$$

6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
7. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

TEST RESULTS

Radiated Measurement:

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case for each Channel Bandwidth of LTE Band 25.
2. $\text{EIRP} = P_{\text{Mea}}(\text{dBm}) - P_{\text{cl}}(\text{dB}) + P_{\text{Ag}}(\text{dB}) + G_a(\text{dBi})$
3. We measured both Horizontal and Vertical direction, recorded worst case direction.

LTE Band 25_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-21.39	3.41	10.24	33.60	19.04	33.01	13.97	V
1882.5	-19.37	3.49	10.24	33.60	20.98	33.01	12.03	V
1914.3	-19.72	3.55	10.23	33.60	20.56	33.01	12.45	V

LTE Band 25_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-20.23	3.41	10.24	33.60	20.20	33.01	12.81	V
1882.5	-18.89	3.49	10.24	33.60	21.46	33.01	11.55	V
1913.5	-20.1	3.55	10.23	33.60	20.18	33.01	12.83	V

LTE Band 25_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-20.04	3.41	10.24	33.60	20.39	33.01	12.62	V
1882.5	-20.52	3.49	10.24	33.60	19.83	33.01	13.18	V
1912.5	-19.88	3.55	10.23	33.60	20.40	33.01	12.61	V

LTE Band 25_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-20.75	3.41	10.24	33.60	19.68	33.01	13.33	V
1882.5	-18.48	3.49	10.24	33.60	21.87	33.01	11.14	V
1910	-19.92	3.55	10.23	33.60	20.36	33.01	12.65	V

*LTE Band 25_Channel Bandwidth 15MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-20.32	3.41	10.24	33.60	20.11	33.01	12.9	V
1882.5	-18.32	3.49	10.24	33.60	22.03	33.01	10.98	V
1907.5	-19.89	3.55	10.23	33.60	20.39	33.01	12.62	V

LTE Band 25_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.0	-20.22	3.41	10.24	33.60	20.21	33.01	12.8	V
1882.5	-17.96	3.49	10.24	33.60	22.39	33.01	10.62	V
1905	-19.86	3.55	10.23	33.60	20.42	33.01	12.59	V

LTE Band 25_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-19.73	3.41	10.24	33.60	20.70	33.01	12.31	V
1882.5	-18.75	3.49	10.24	33.60	21.60	33.01	11.41	V
1914.3	-19.11	3.55	10.23	33.60	21.17	33.01	11.84	V

LTE Band 25_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-21.5	3.41	10.24	33.60	18.93	33.01	14.08	V
1882.5	-19.62	3.49	10.24	33.60	20.73	33.01	12.28	V
1913.5	-18.53	3.55	10.23	33.60	21.75	33.01	11.26	V

LTE Band 25_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-21.66	3.41	10.24	33.60	18.77	33.01	14.24	V
1882.5	-18.64	3.49	10.24	33.60	21.71	33.01	11.3	V
1912.5	-19.55	3.55	10.23	33.60	20.73	33.01	12.28	V

LTE Band 25_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-20.97	3.41	10.24	33.60	19.46	33.01	13.55	V
1882.5	-18.58	3.49	10.24	33.60	21.77	33.01	11.24	V
1910	-19.42	3.55	10.23	33.60	20.86	33.01	12.15	V

**LTE Band 25 Channel Bandwidth 15MHz 16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-20.17	3.41	10.24	33.60	20.26	33.01	12.75	V
1882.5	-19.49	3.49	10.24	33.60	20.86	33.01	12.15	V
1907.5	-20.3	3.55	10.23	33.60	19.98	33.01	13.03	V

LTE Band 25 Channel Bandwidth 20MHz 16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.0	-20.43	3.41	10.24	33.60	20.00	33.01	13.01	V
1882.5	-17.44	3.49	10.24	33.60	22.91	33.01	10.1	V
1905	-19.49	3.55	10.23	33.60	20.79	33.01	12.22	V

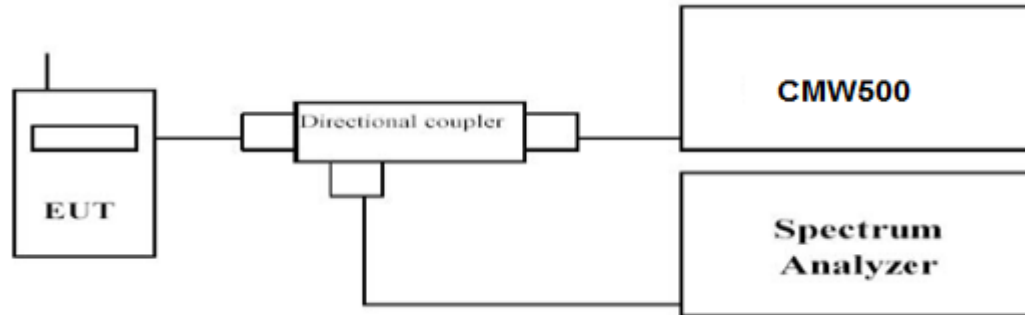


4.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms,
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case for each Channel Bandwidth of LTE Band 25.

LTE Band 25				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR(dB)	
			QPSK	16QAM
1.4 MHz	1850.7	1RB#0	4.84	5.94
	1882.5		5.31	6.20
	1914.3		4.86	5.97
3 MHz	1851.5	1RB#0	4.82	5.74
	1882.5		5.39	6.23
	1913.5		4.89	5.79
5 MHz	1852.5	1RB#0	4.82	5.76
	1882.5		5.36	6.17
	1912.5		4.89	5.81
10 MHz	1855.0	1RB#0	4.75	5.69
	1882.5		5.30	5.78
	1910		4.85	5.57
15 MHz	1857.5	1RB#0	4.74	5.68
	1882.5		5.42	5.75
	1907.5		4.90	5.69
20 MHz	1860.0	1RB#0	4.75	5.62
	1882.5		5.25	5.88
	1905		4.85	5.66

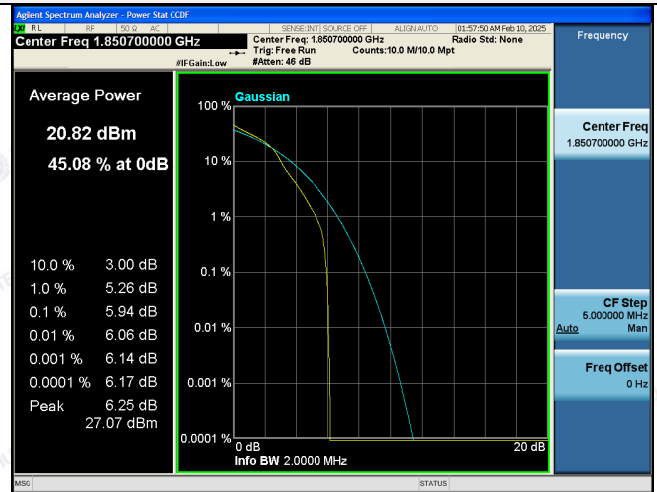
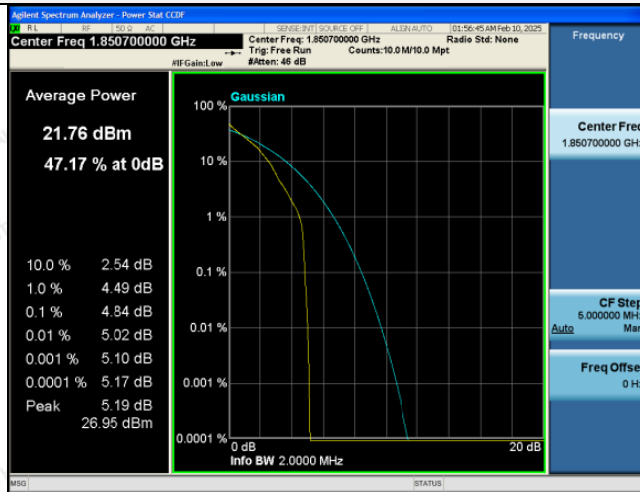


LTE Band 25 – 1.4 MHz Channel Bandwidth PAPR

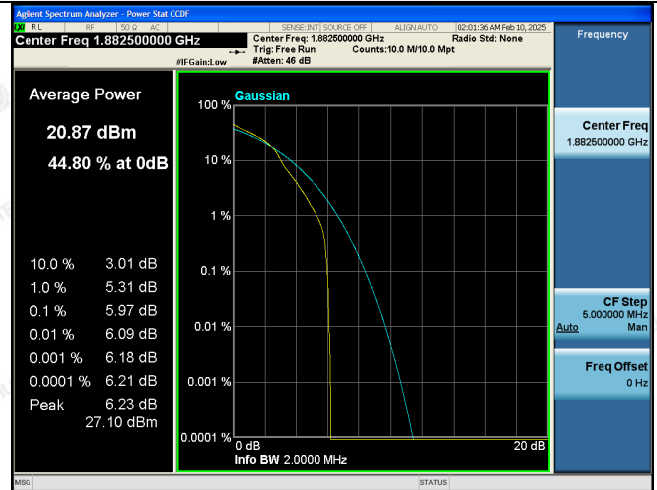
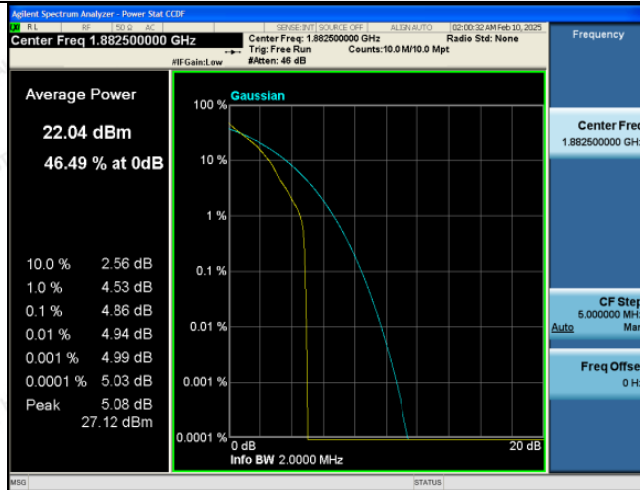
QPSK

16QAM

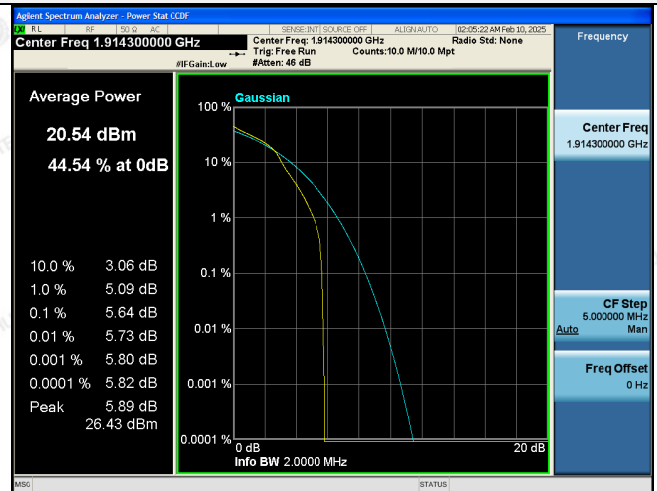
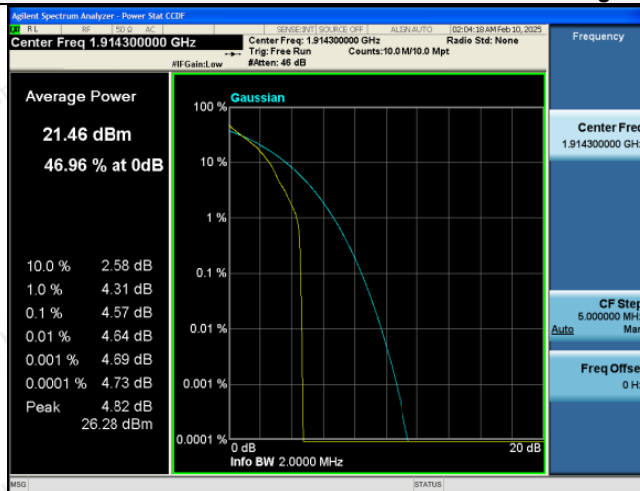
Low Channel



Middle Channel



High Channel



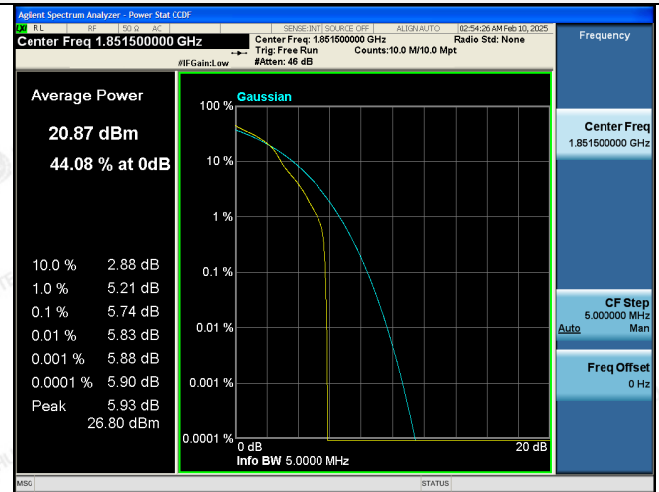
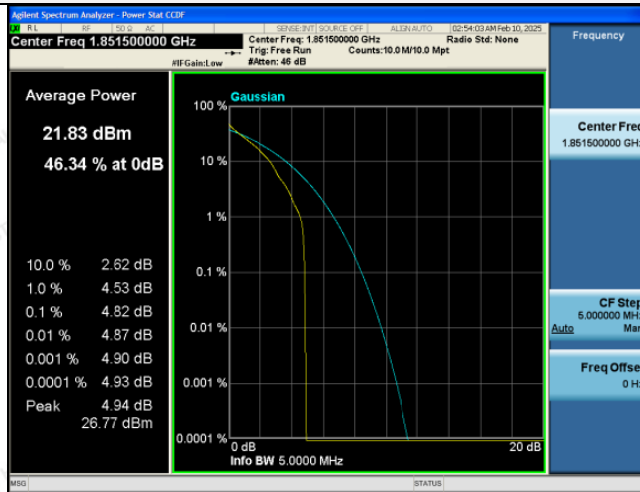


LTE Band 25-3MHz Channel BandwidthPAPR

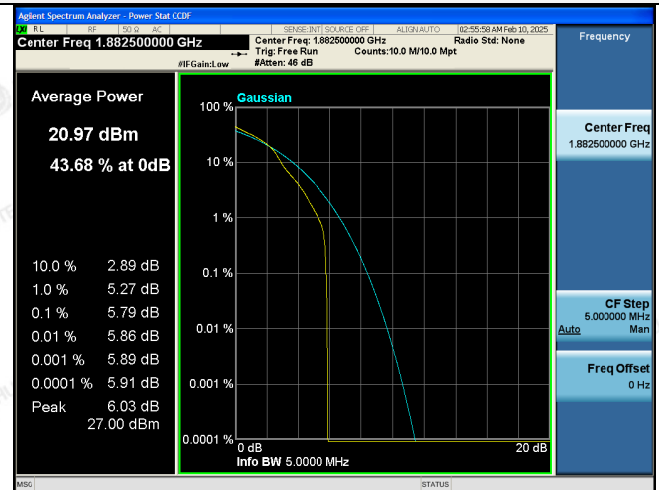
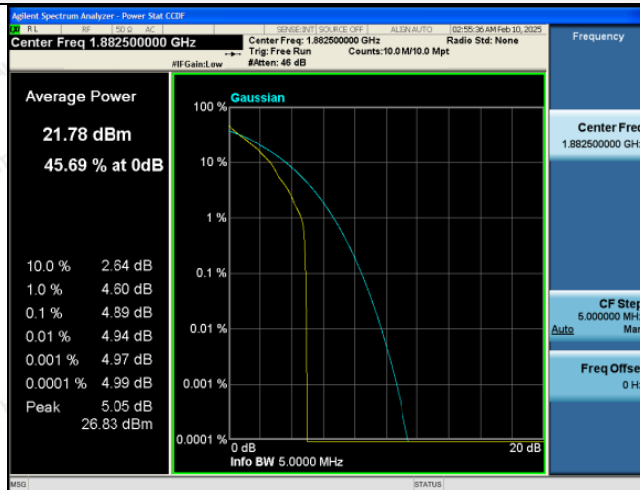
QPSK

16QAM

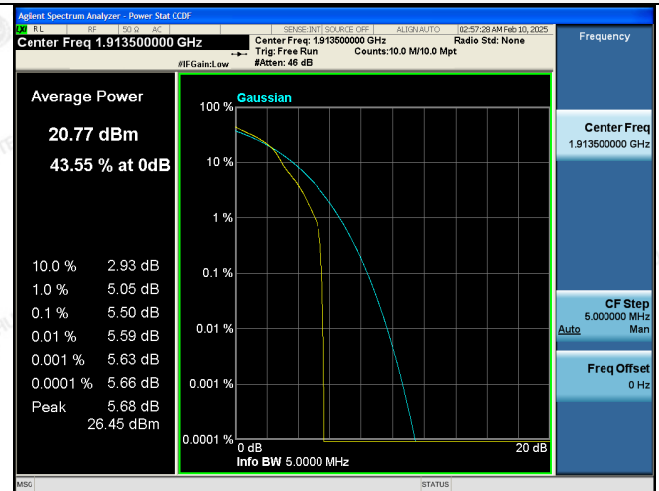
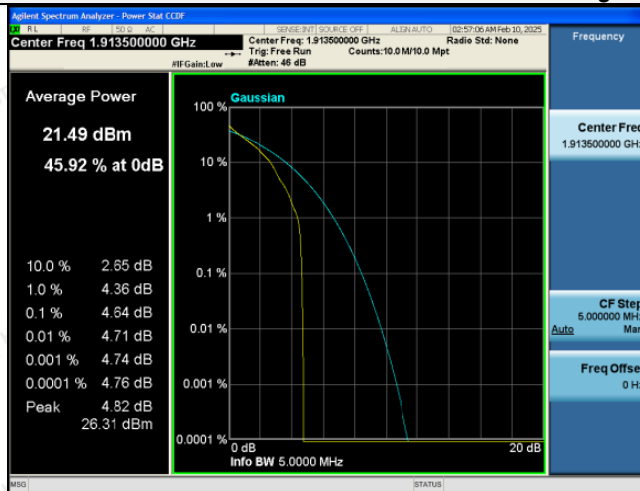
Low Channel



Middle Channel



High Channel



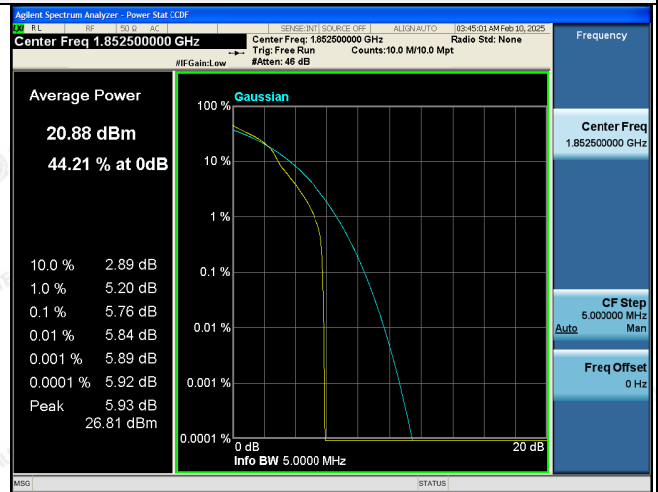
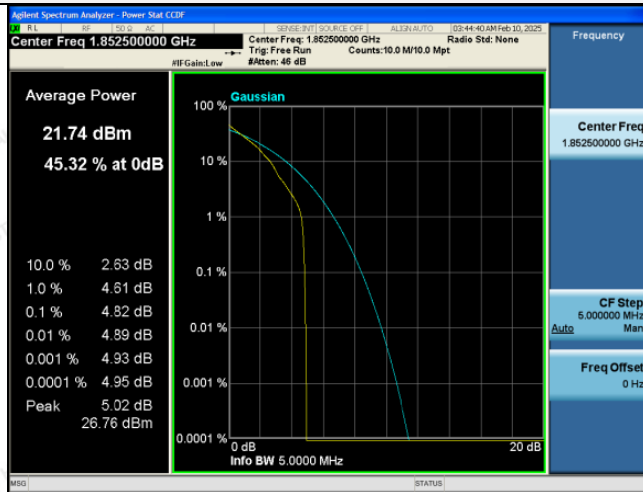


LTE Band 25-5MHz Channel BandwidthPAPR

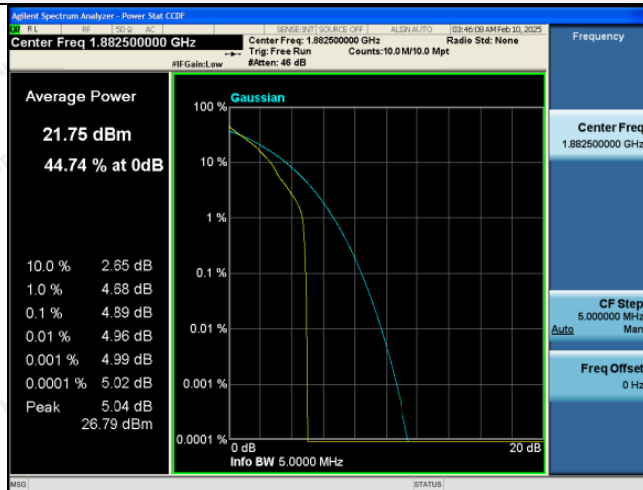
QPSK

16QAM

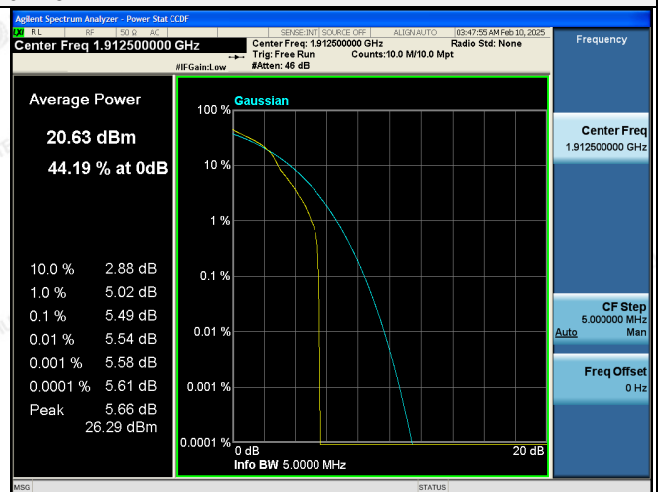
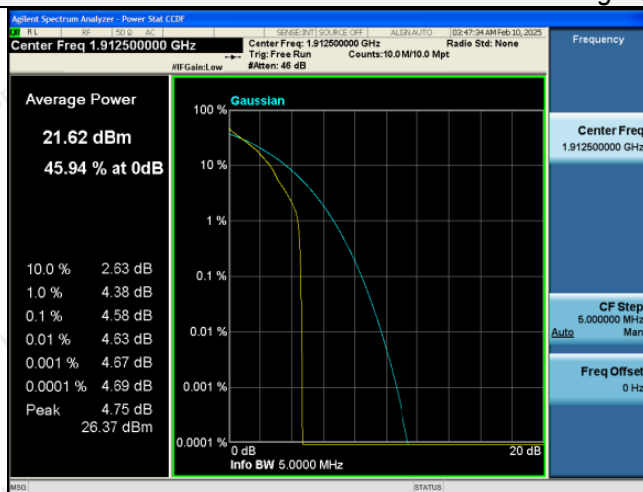
Low Channel



Middle Channel



High Channel



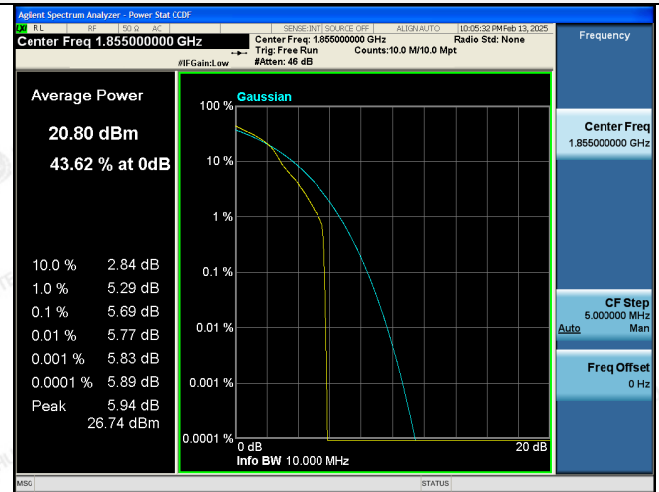
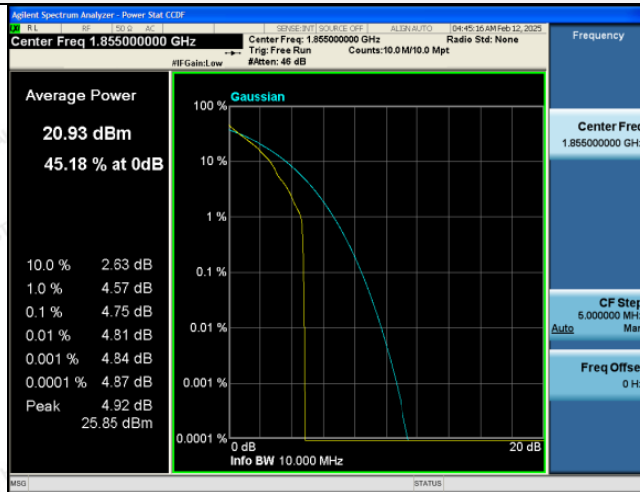


LTE Band 25-10MHz Channel Bandwidth PAPR

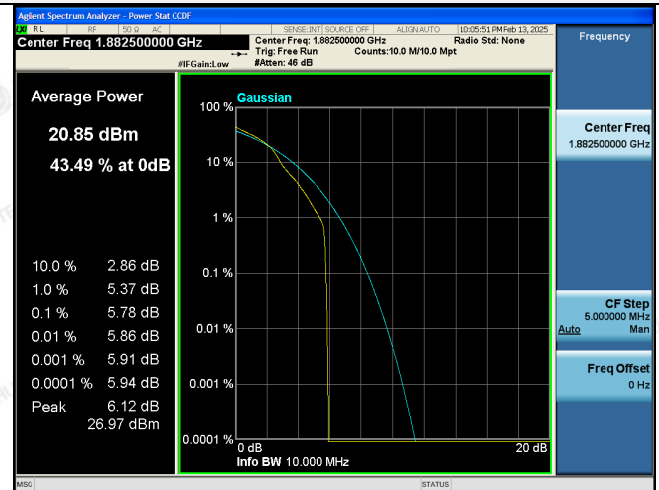
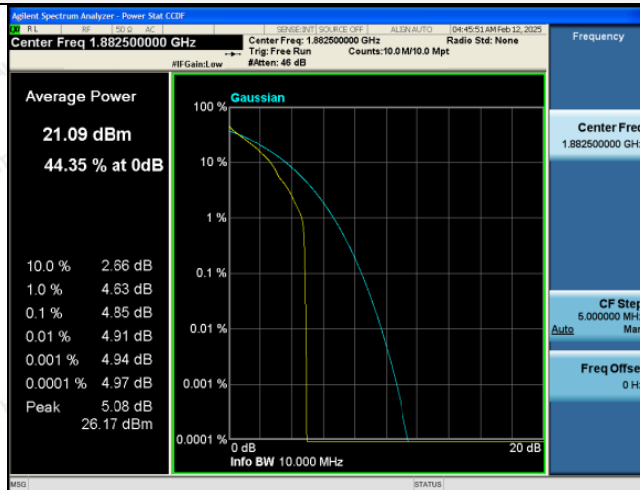
QPSK

16QAM

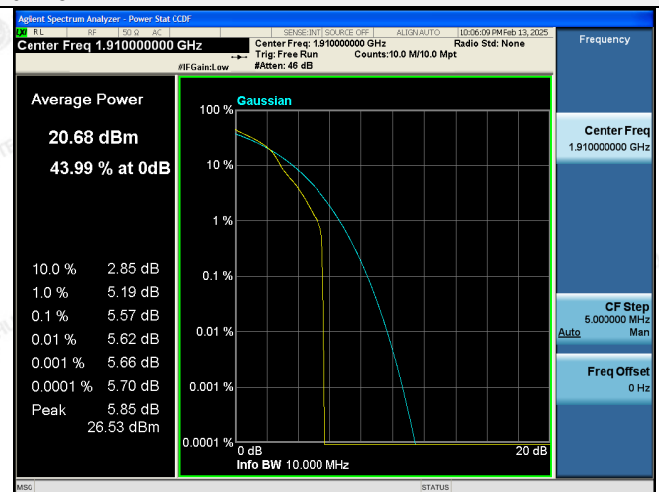
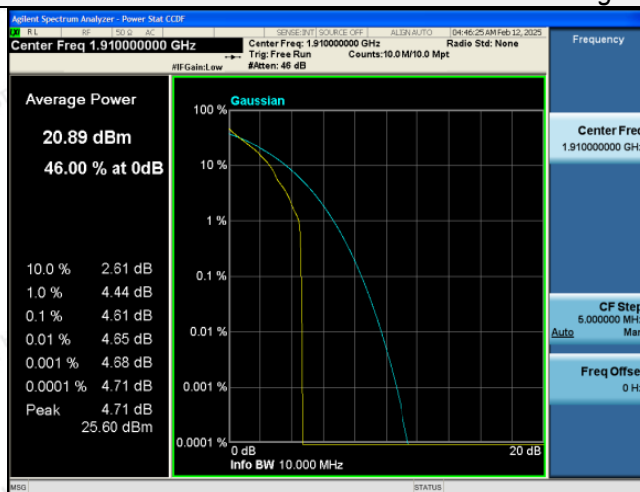
Low Channel



Middle Channel



High Channel



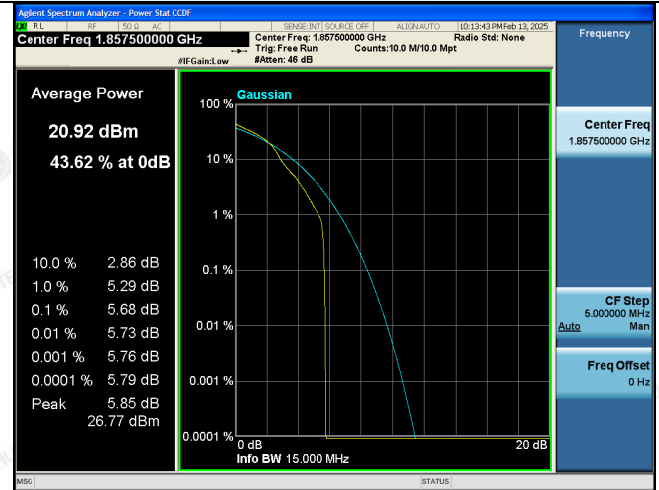
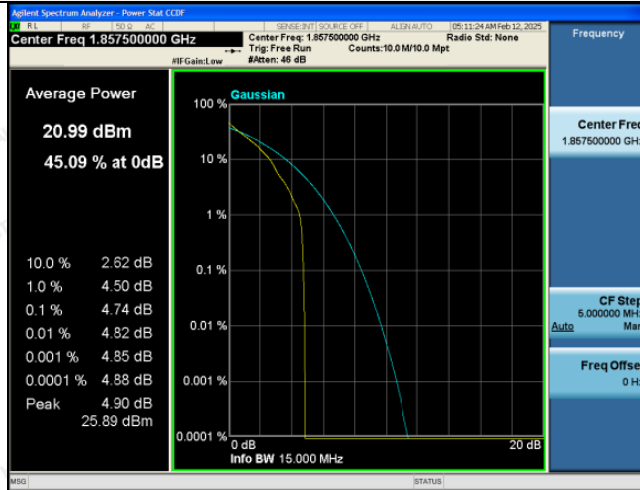


LTE Band 25- 15 MHz Channel BandwidthPAPR

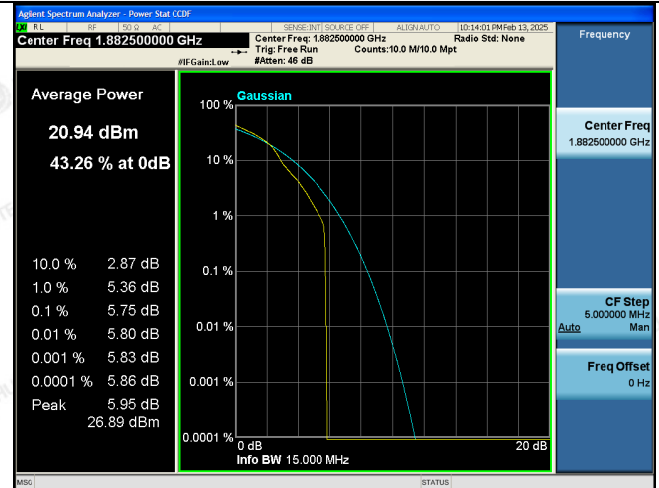
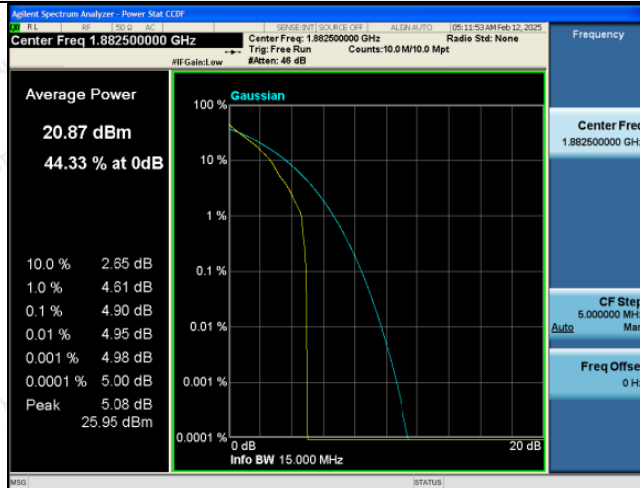
QPSK

16QAM

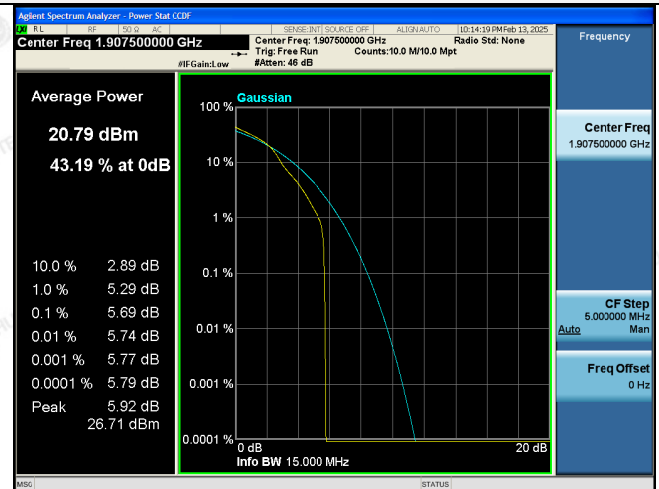
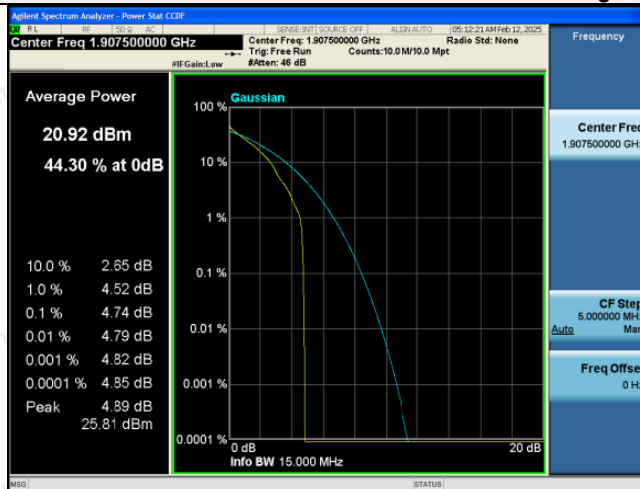
Low Channel



Middle Channel



High Channel



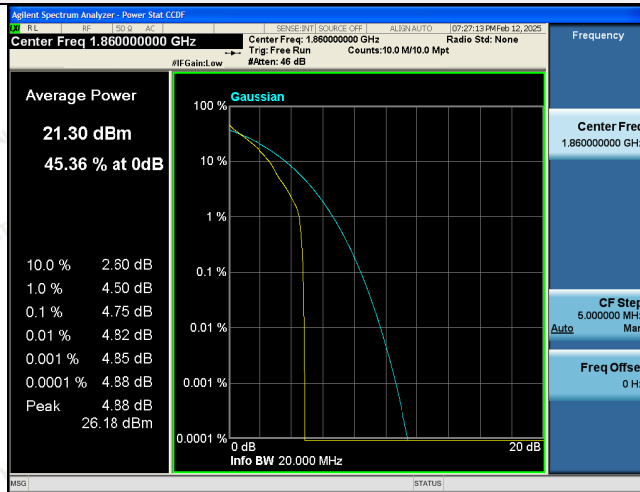


LTE Band 25-20MHz Channel Bandwidth PAPR

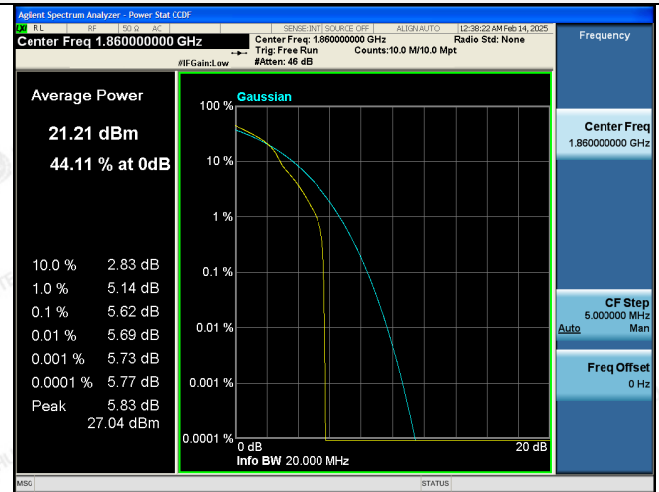
QPSK

16QAM

Low Channel

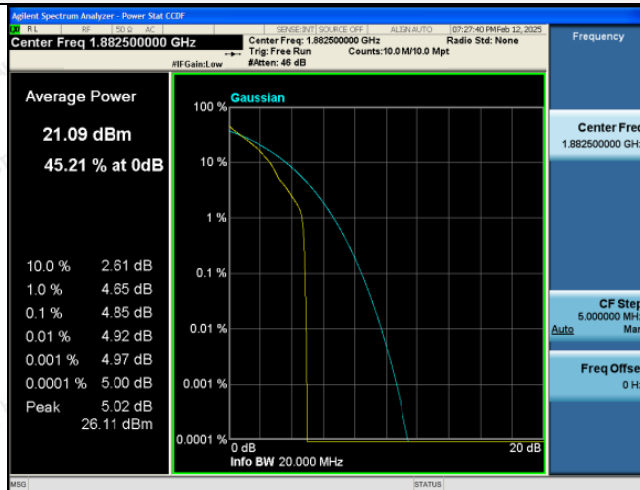


1RB#0

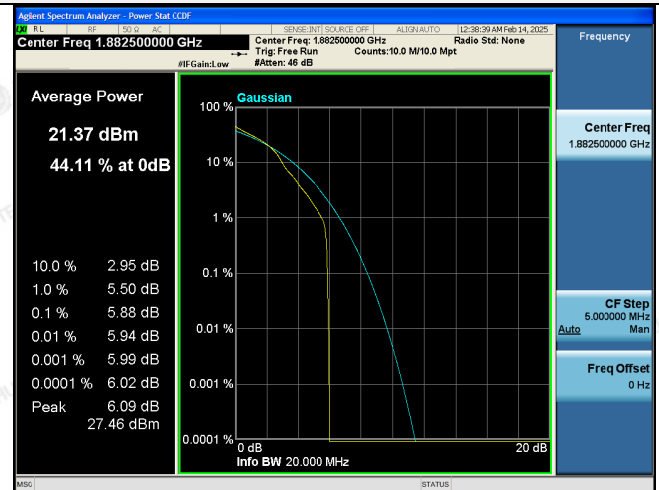


1RB#0

Middle Channel

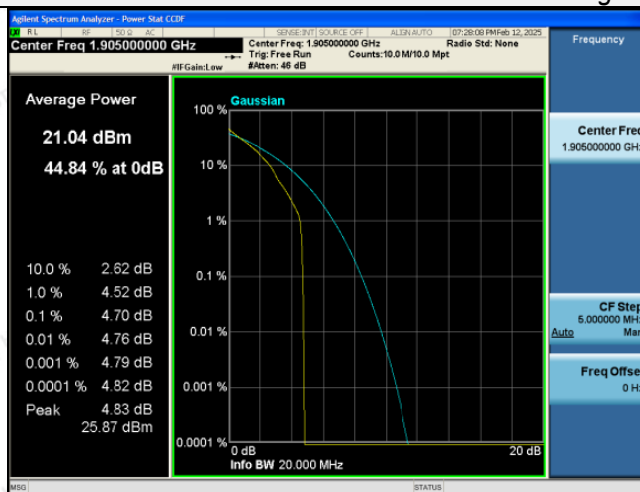


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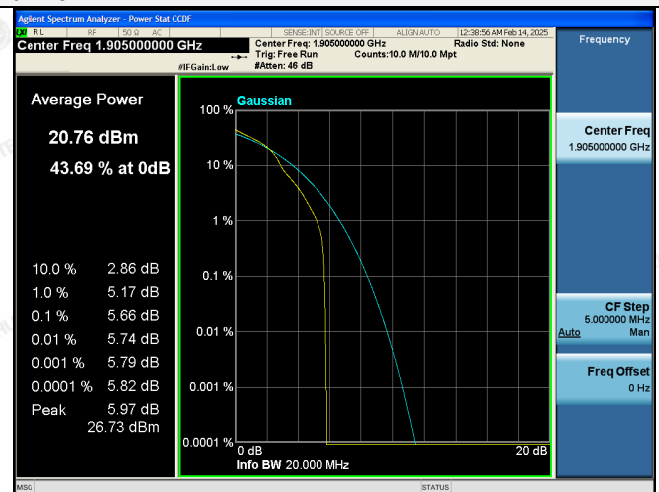


1RB#0

High Channel



1RB#0



1RB#0

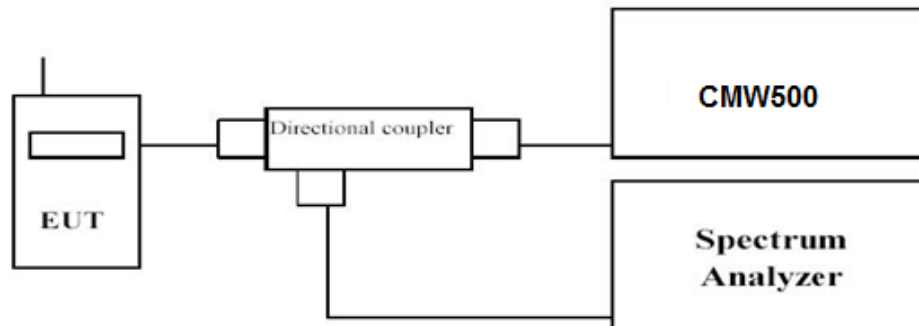


4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW ≥ 3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case for each Channel Bandwidth of LTE Band 25.

LTE Band 25						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	6RB#0	1850.7	1.295	1.303	1.0934	1.1006
		1882.5	1.298	1.308	1.0954	1.0985
		1914.3	1.288	1.296	1.0968	1.0996
3 MHz	15RB#0	1851.5	2.965	2.967	2.6967	2.6935
		1882.5	2.975	2.968	2.7027	2.6987
		1913.5	2.969	2.951	2.7020	2.6937
5 MHz	25RB#0	1852.5	5.030	4.994	4.5121	4.5052
		1882.5	5.043	4.990	4.5143	4.5111
		1912.5	5.027	4.994	4.5154	4.5109
10 MHz	50RB#0	1855.0	9.891		8.9713	
		1882.5	9.919		8.9848	
		1910	9.898		8.9647	
15 MHz	75RB#0	1857.5	14.72		13.458	
		1882.5	14.83		13.447	
		1907.5	14.71		13.416	
20 MHz	100RB#0	1860.0	19.51		17.895	
		1882.5	19.54		17.904	
		1905	19.37		17.846	

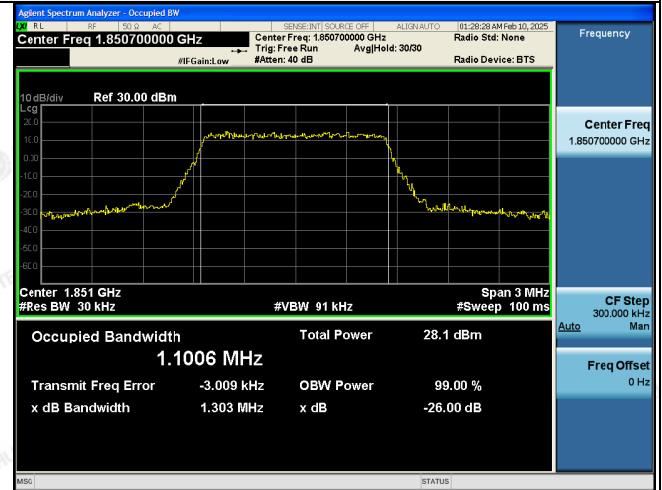
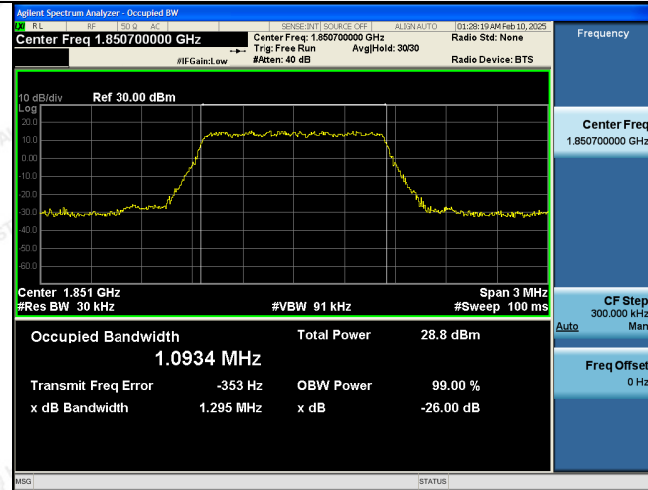


LTE Band 25 – 1.4 MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

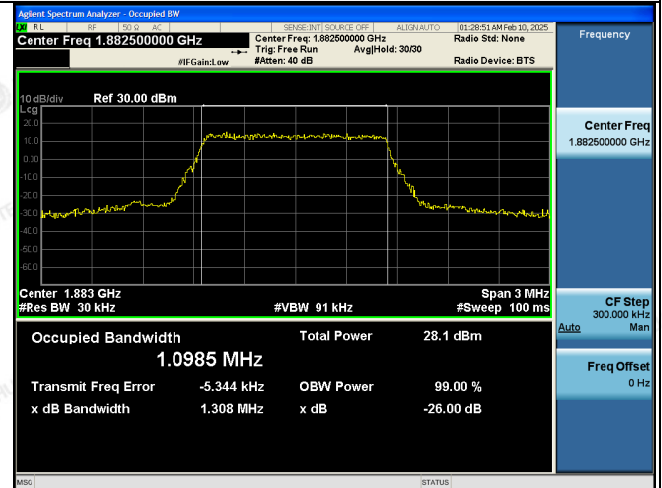
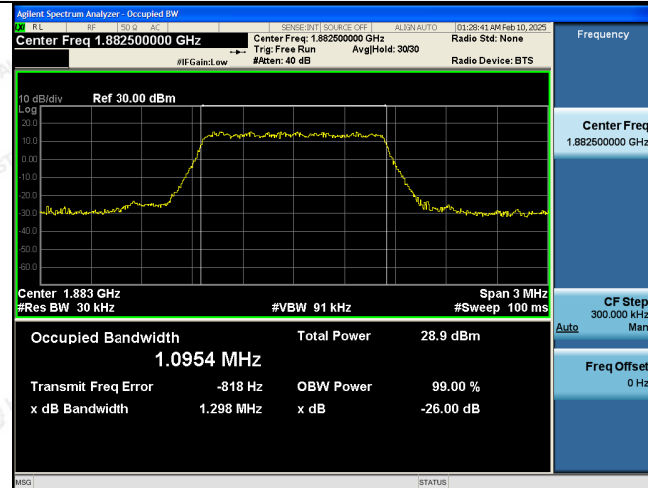
Low Channel



6RB#0

6RB#0

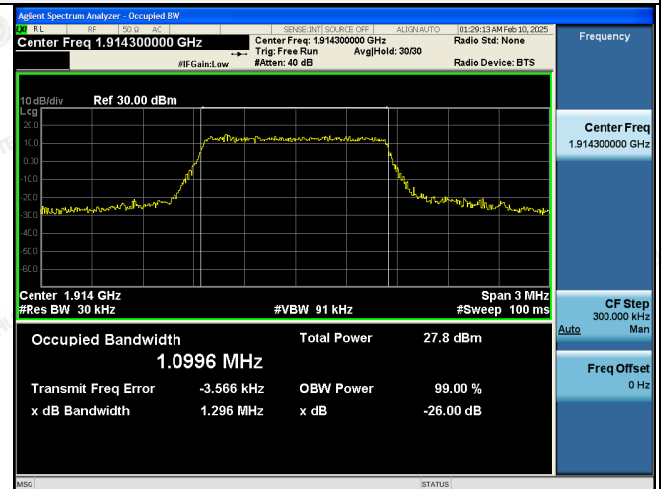
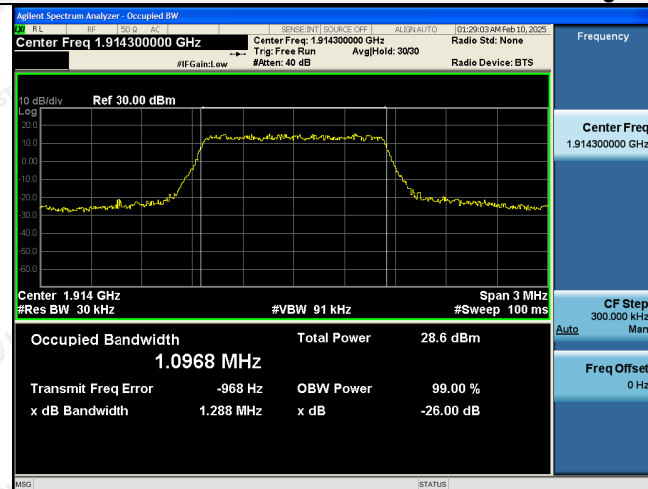
Middle Channel



6RB#0

6RB#0

High Channel



6RB#0

6RB#0

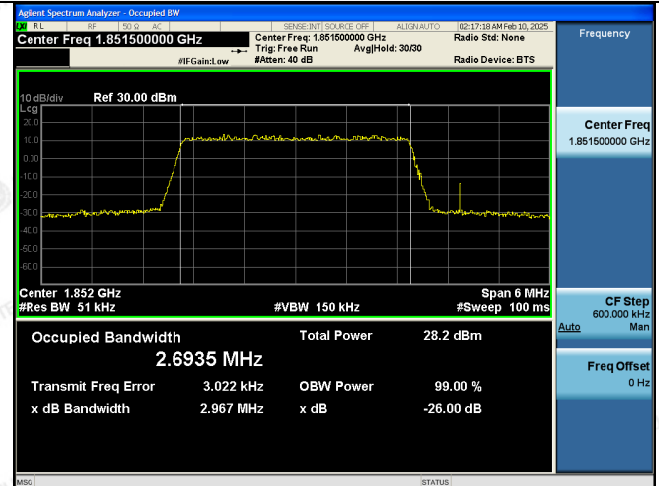
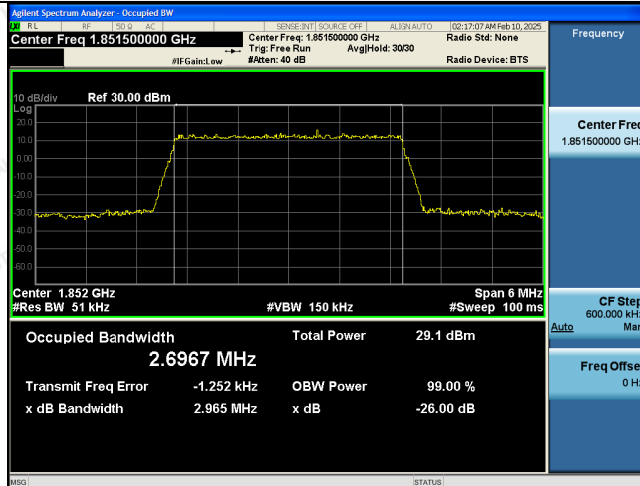


LTE Band 25-3MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

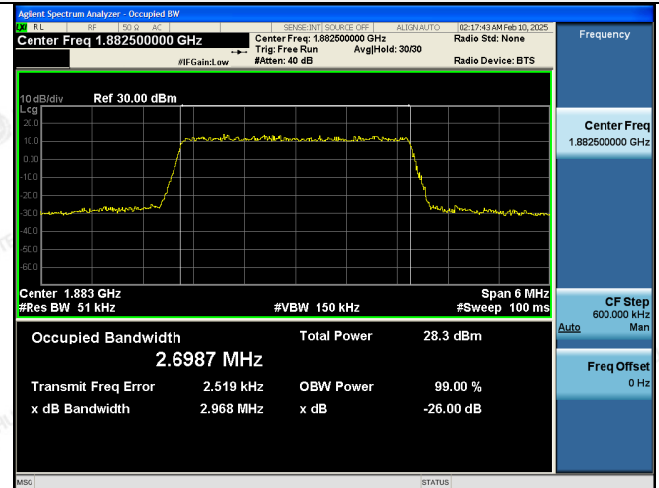
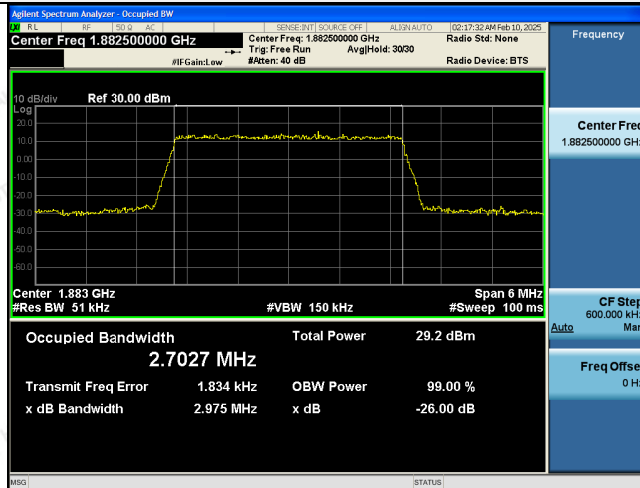
Low Channel



15RB#0

15RB#0

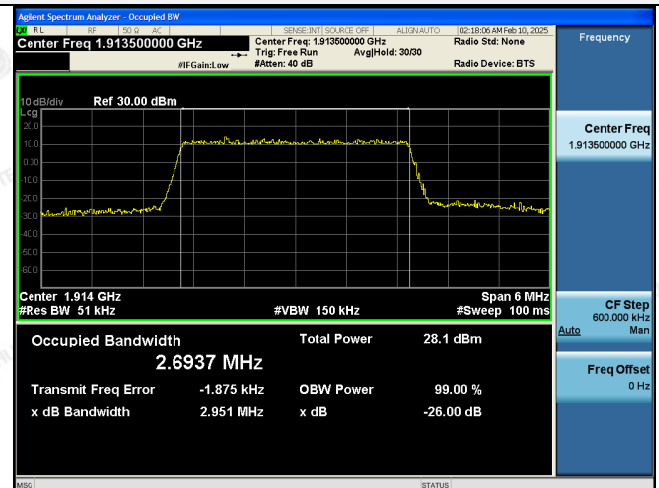
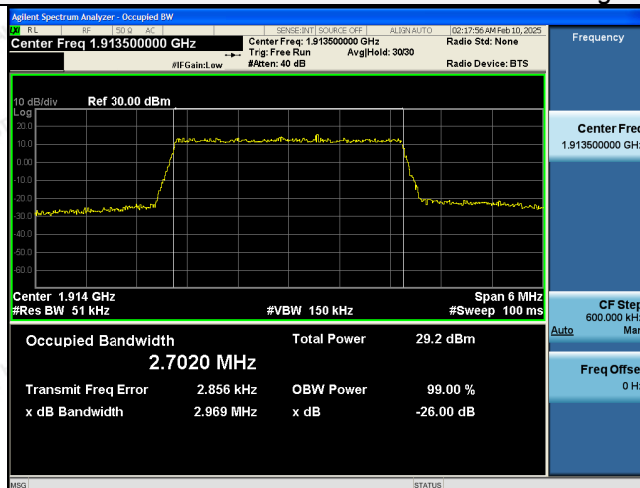
Middle Channel



15RB#0

15RB#0

High Channel



15RB#0

15RB#0

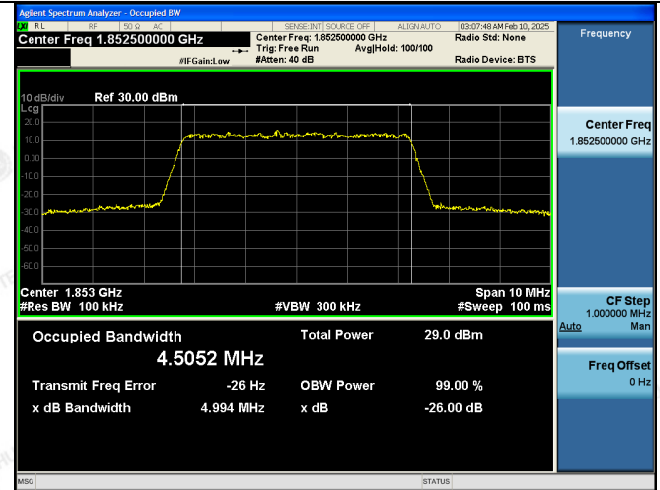
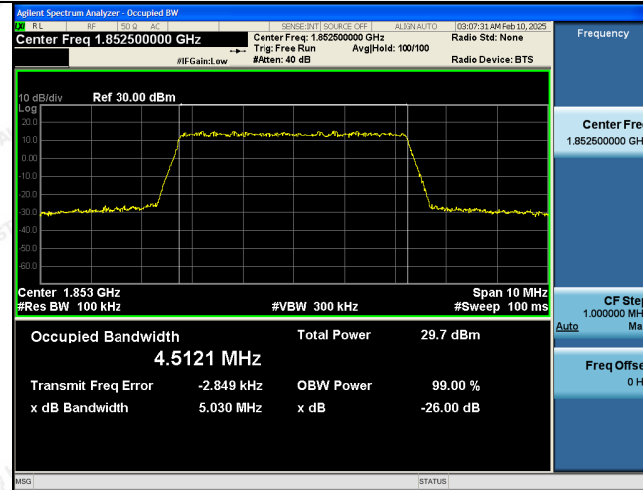


LTE Band 25-5MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

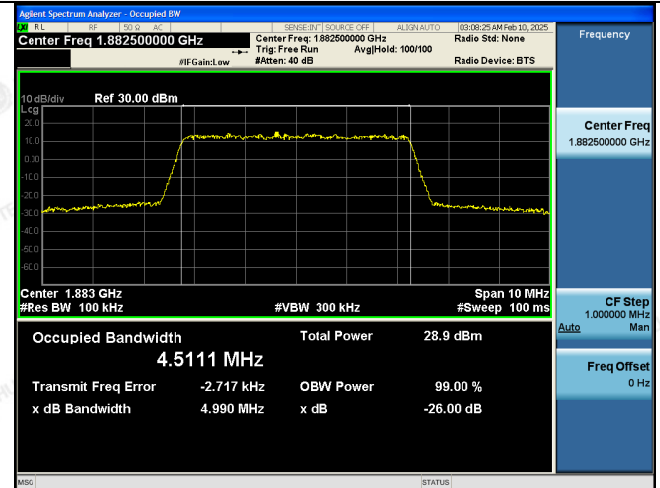
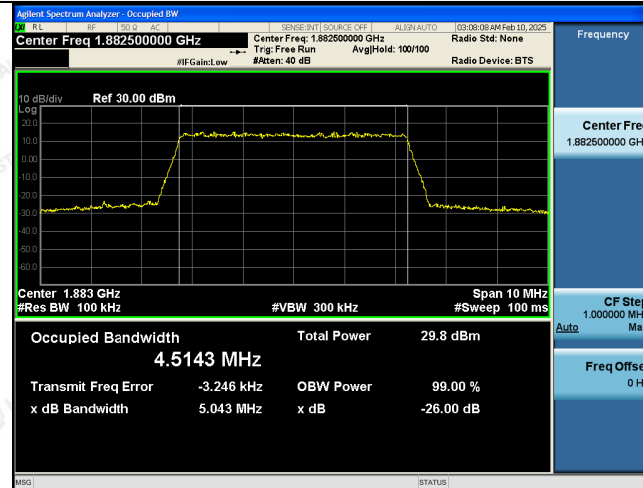
Low Channel



25RB#0

25RB#0

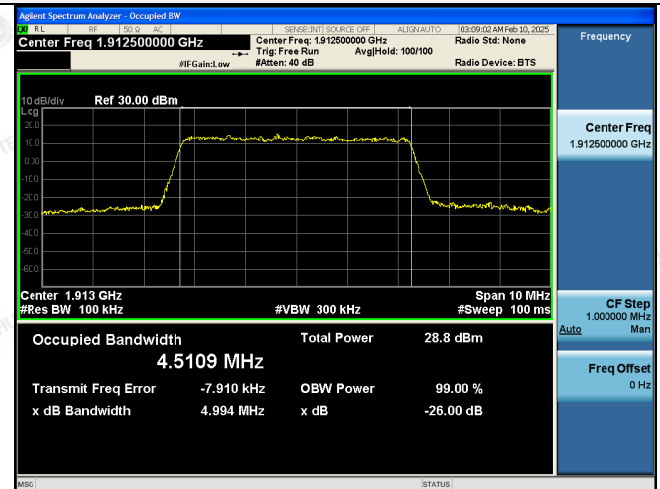
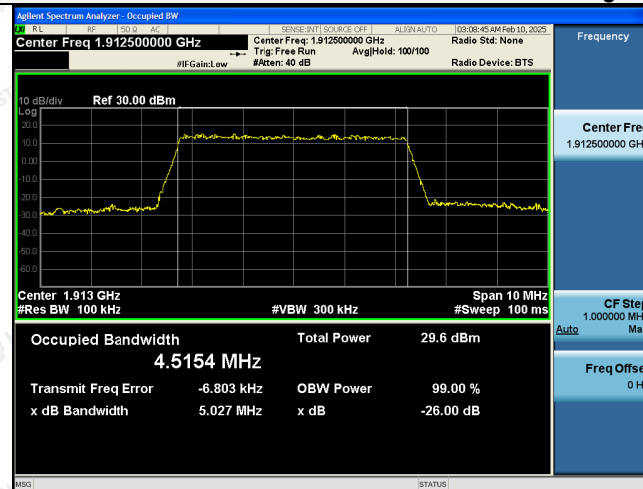
Middle Channel



25RB#0

25RB#0

High Channel



25RB#0

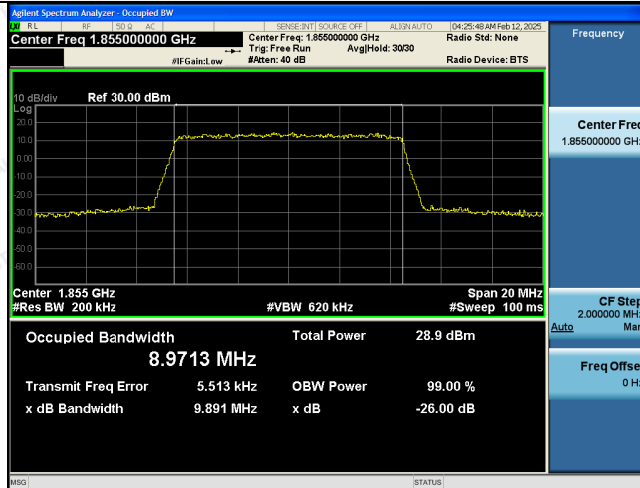
25RB#0



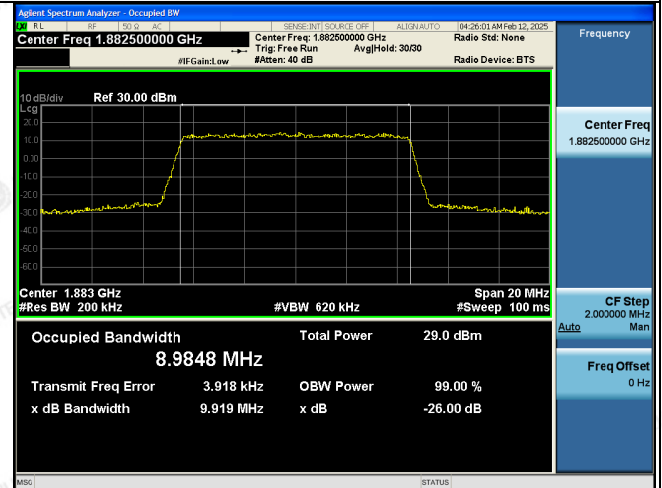
LTE Band 25-10MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

Low Channel

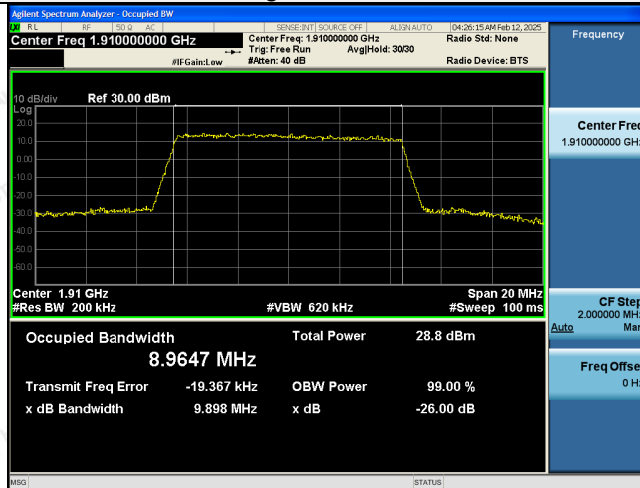


Middle Channel



50RB#0

High Channel



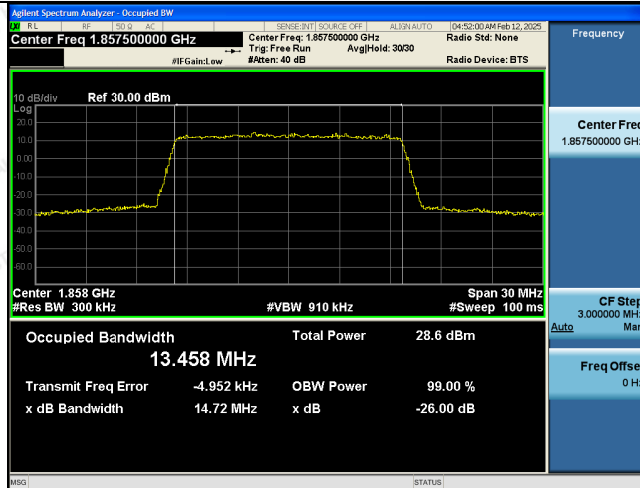
50RB#0



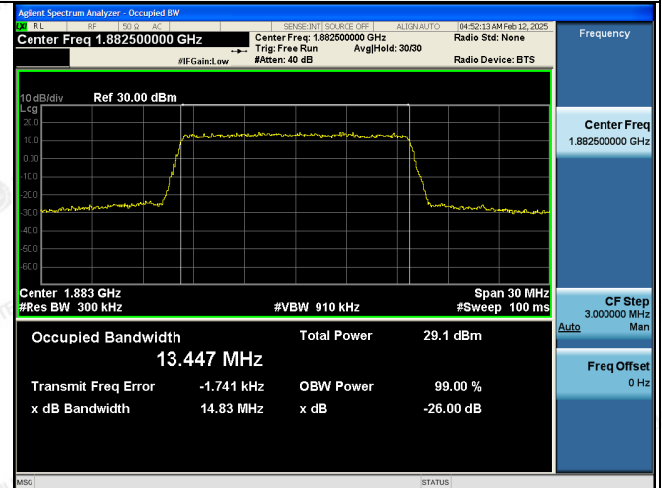
LTE Band 25-15MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

Low Channel

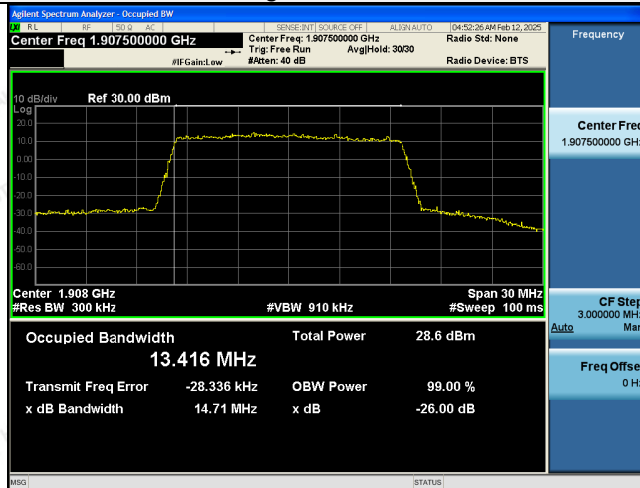


Middle Channel



75RB#0

High Channel



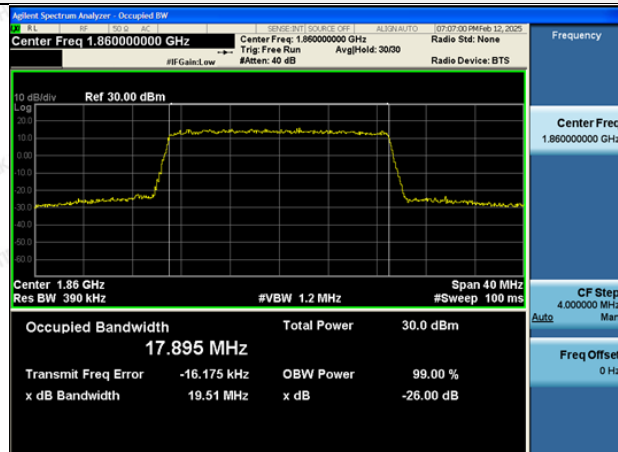
75RB#0



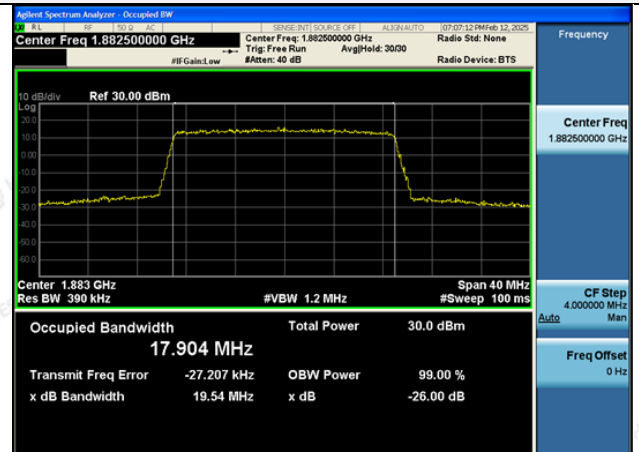
LTE Band 25-20MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

Low Channel

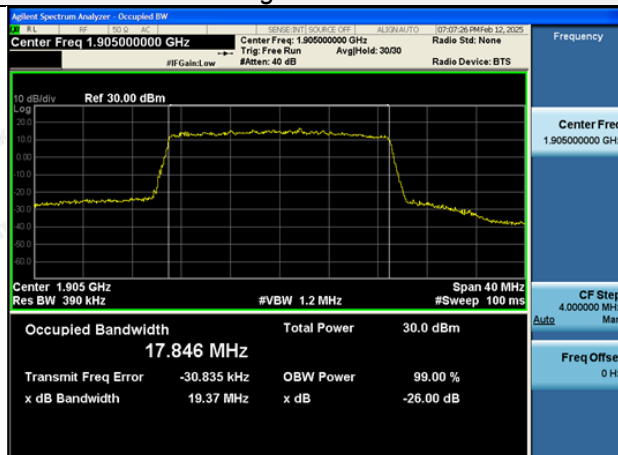


Middle Channel



100RB#0

High Channel



100RB#0

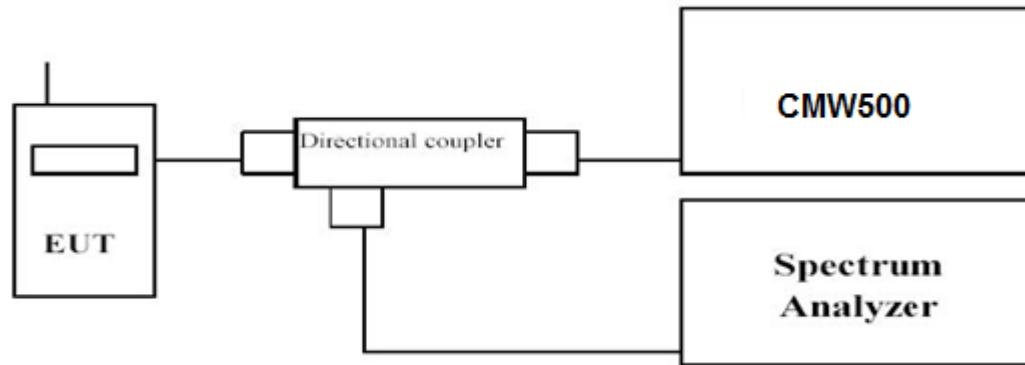


4.4 Band Edge compliance

LIMIT

Per FCC §24.238 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.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case for each Channel Bandwidth of LTE Band 25.

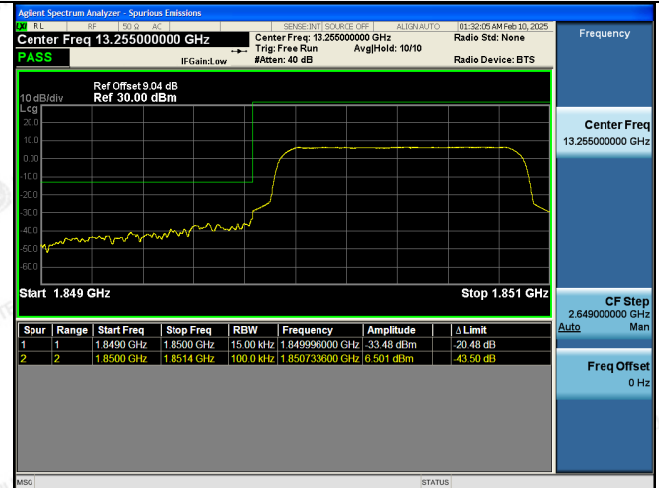
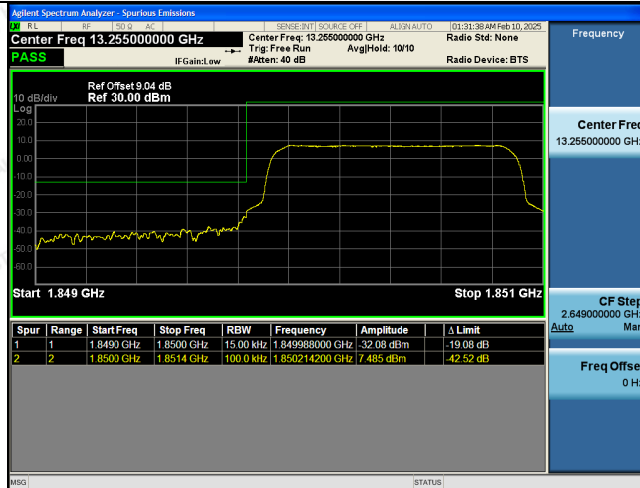


LTE Band 25 – 1.4 MHz Channel Bandwidth Band Edge Compliance

QPSK

16QAM

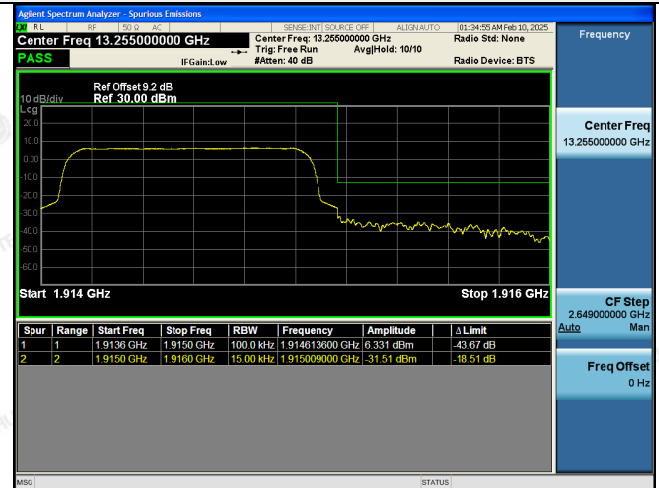
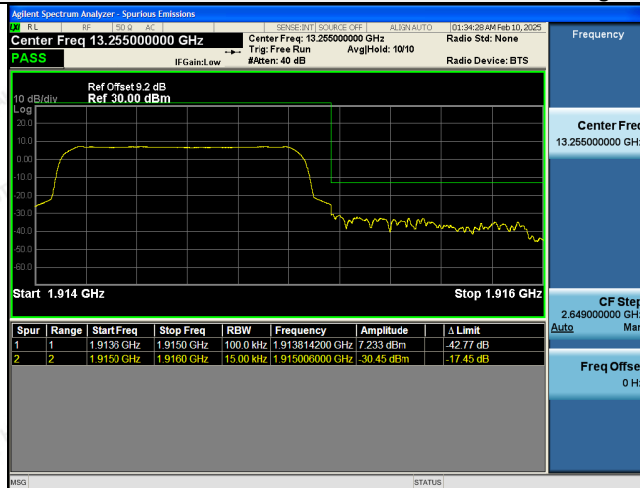
Low Channel



6RB#0

6RB#0

High Channel



6RB#0

6RB#0

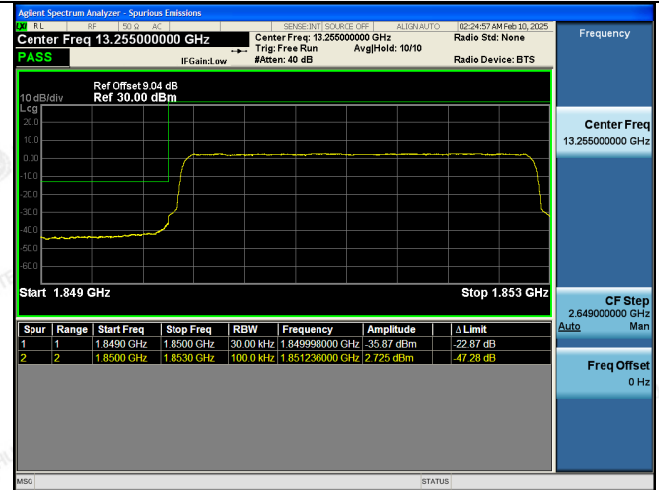
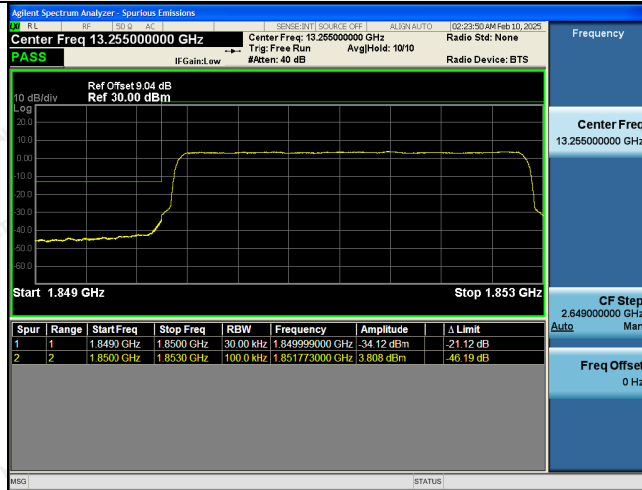


LTE Band 25-3MHz Channel Bandwidth Band Edge Compliance

QPSK

16QAM

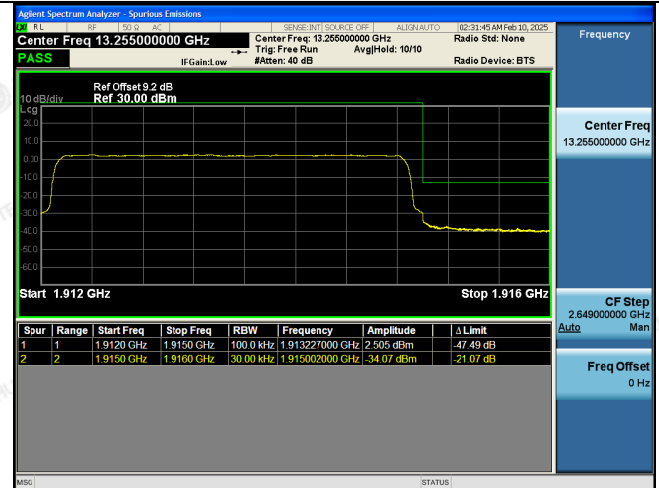
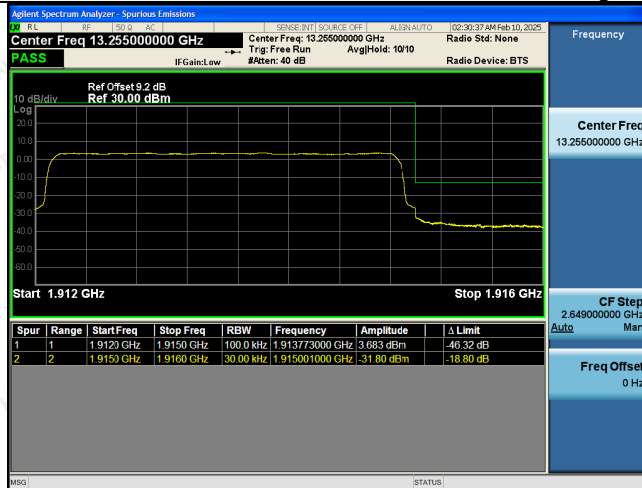
Low Channel



15RB#0

15RB#0

High Channel



15RB#0

15RB#0

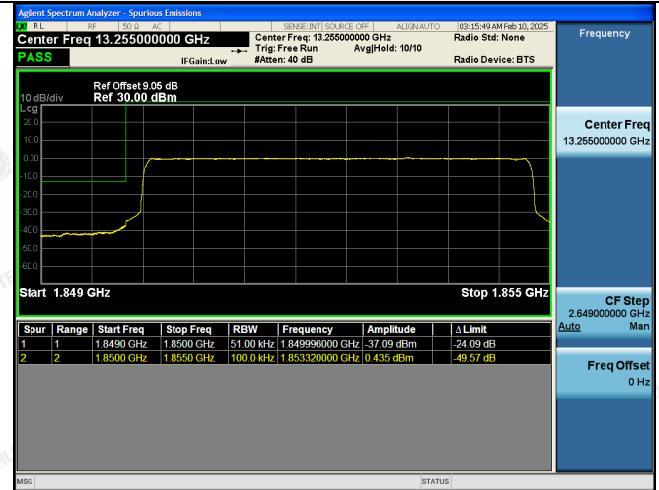
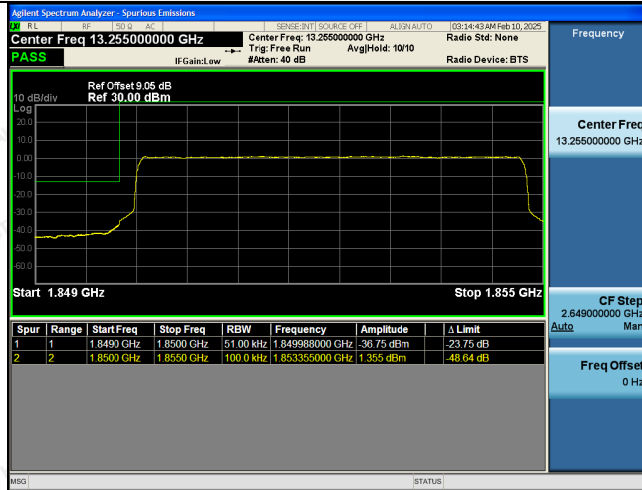


LTE Band 25-5MHz Channel Bandwidth Band Edge Compliance

QPSK

16QAM

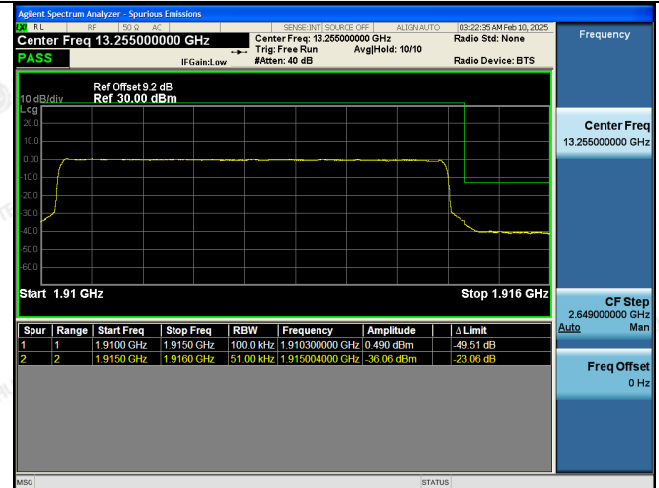
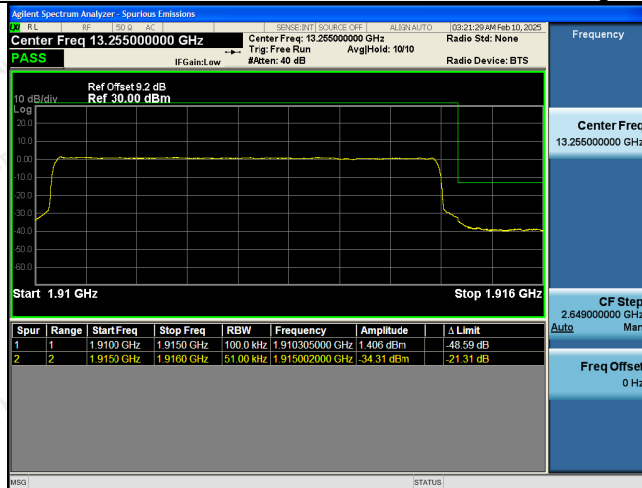
Low Channel



25RB#0

25RB#0

High Channel



25RB#0

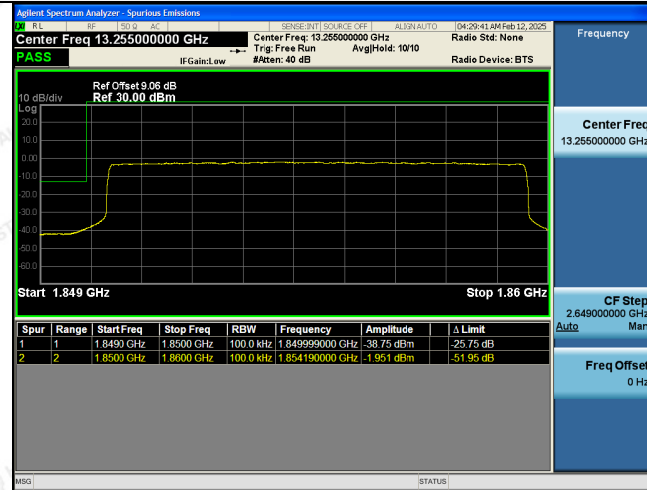
25RB#0



LTE Band 25 – 10 MHz Channel Bandwidth Band Edge Compliance

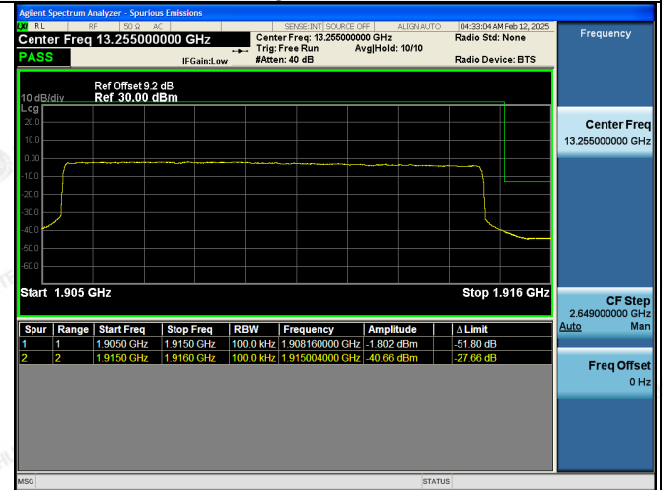
QPSK

Low Channel



50RB#0

High Channel

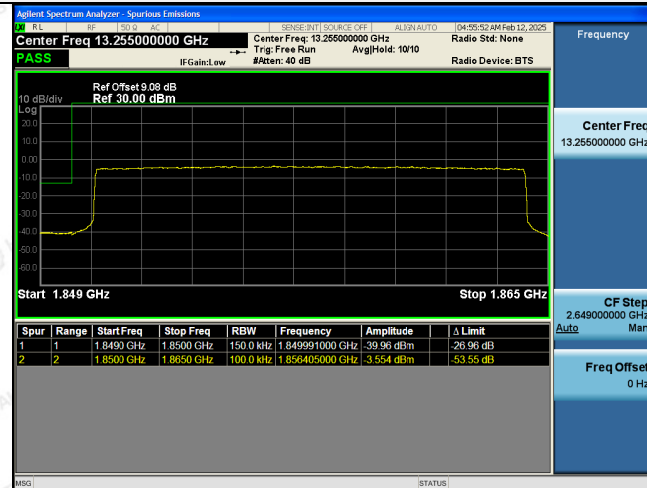


50RB#0

LTE Band 25-15MHz Channel Bandwidth Band Edge Compliance

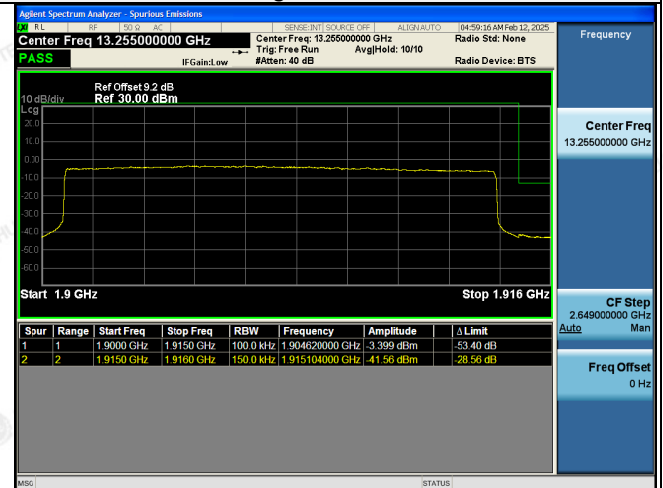
QPSK

Low Channel

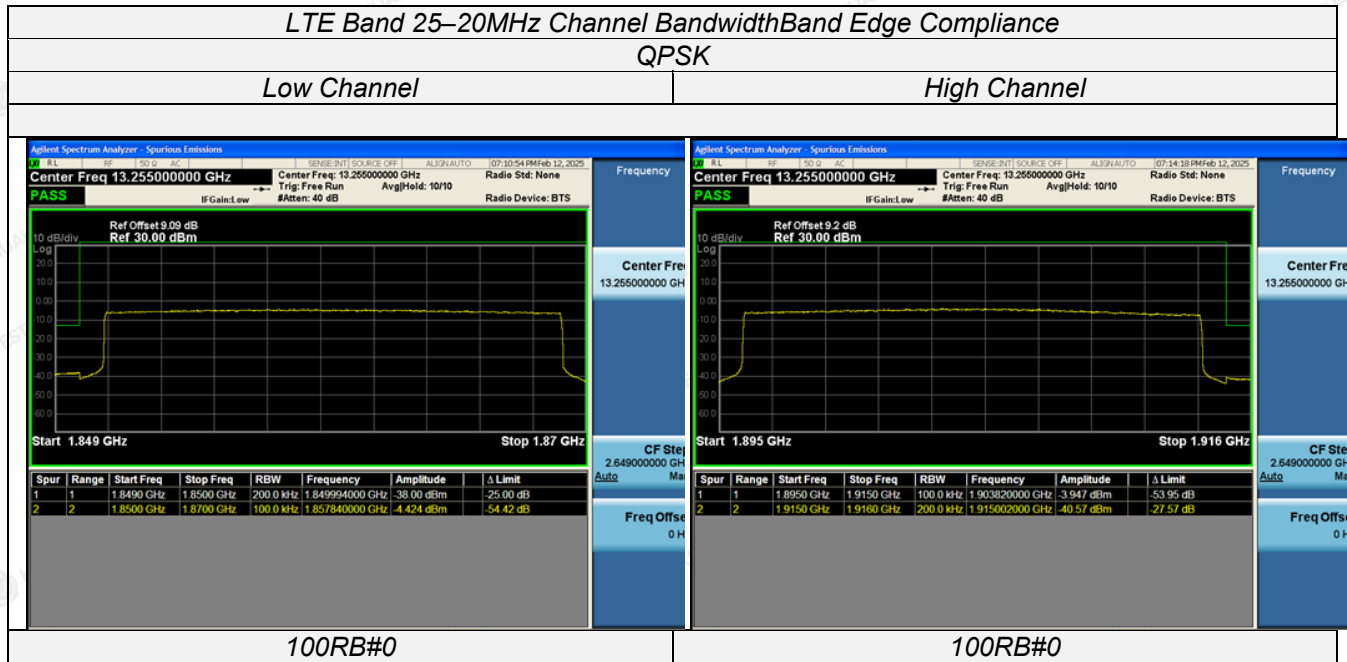


75RB#0

High Channel



75RB#0



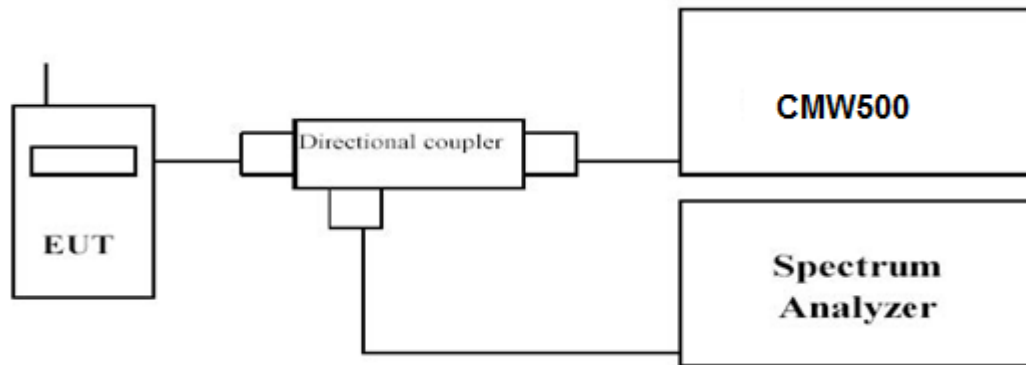


4.5 Spurious Emission on Antenna Port

LIMIT

Per FCC §24.238, 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.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Coupler.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10^{th} harmonic.
- Please refer to following tables for test antenna conducted emissions.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
LTE Band 25	0.03~1	100 KHz	300 KHz	Auto
	1~20	1 MHz	3 MHz	Auto

TEST RESULTS

Remark:

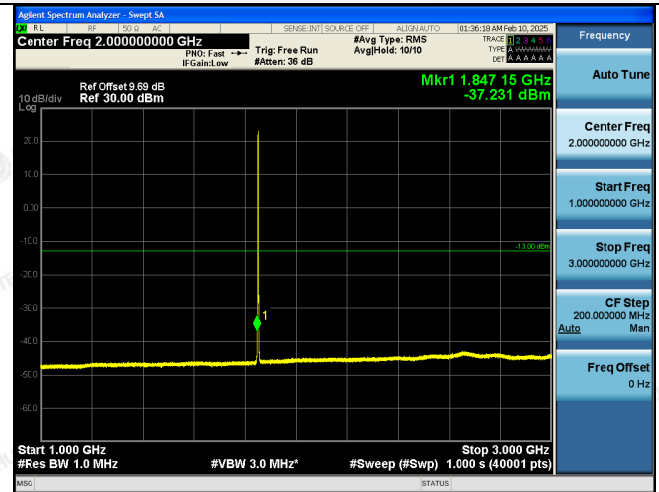
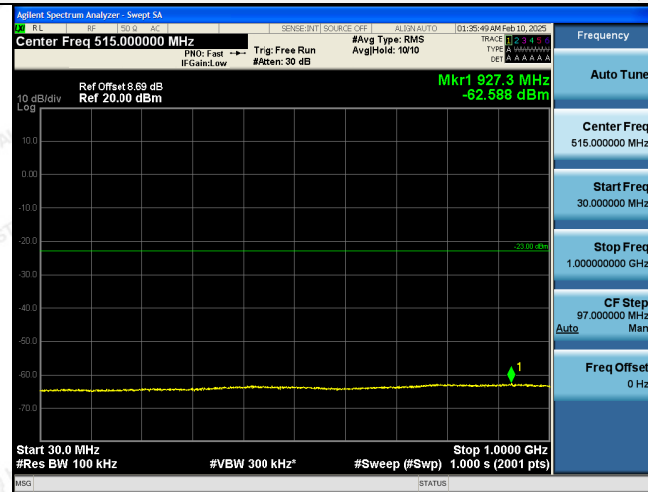
- We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case at the QPSK Mode for each Channel Bandwidth of LTE Band 25



LTE Band 25-1.4MHz Channel Bandwidth

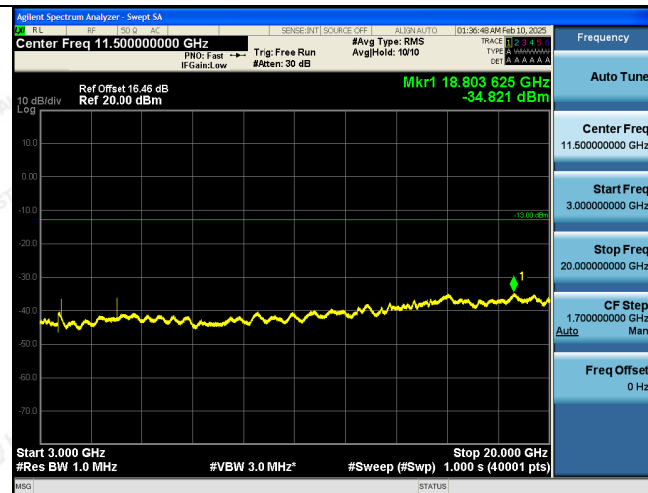
Low Channel

QPSK



30MHz~1GHz

1GHz ~3GHz



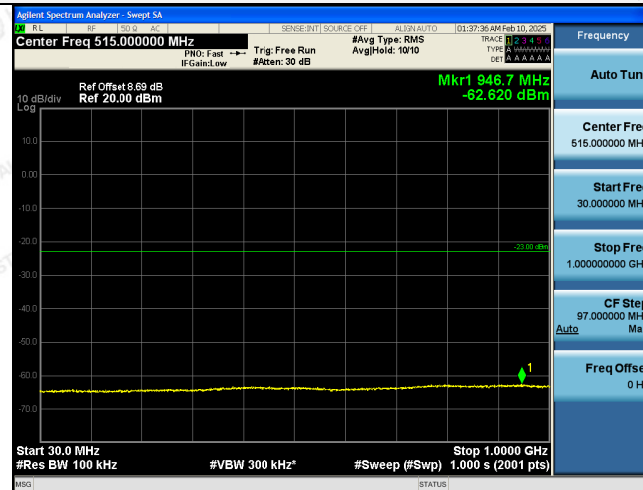
3 GHz ~20 GHz



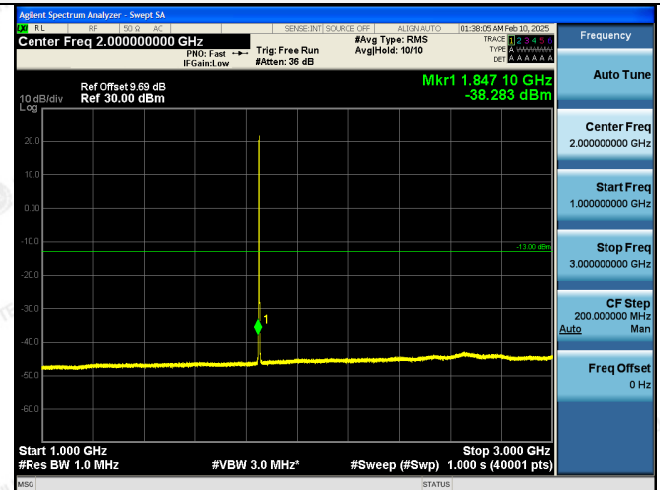
LTE Band 25-1.4MHz Channel Bandwidth

Middle Channel

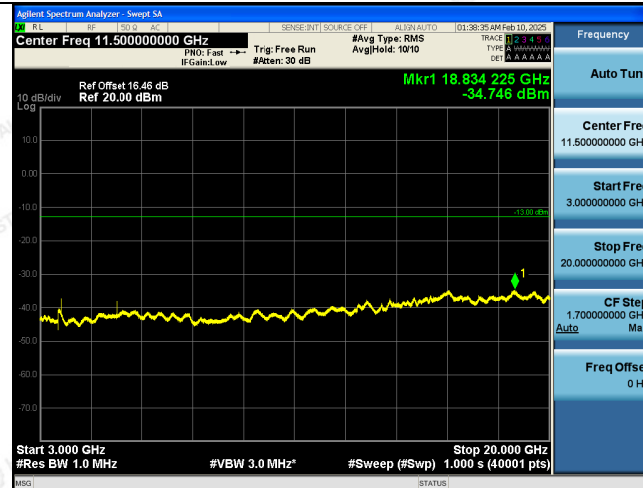
QPSK



30MHz~1GHz



1GHz ~3GHz



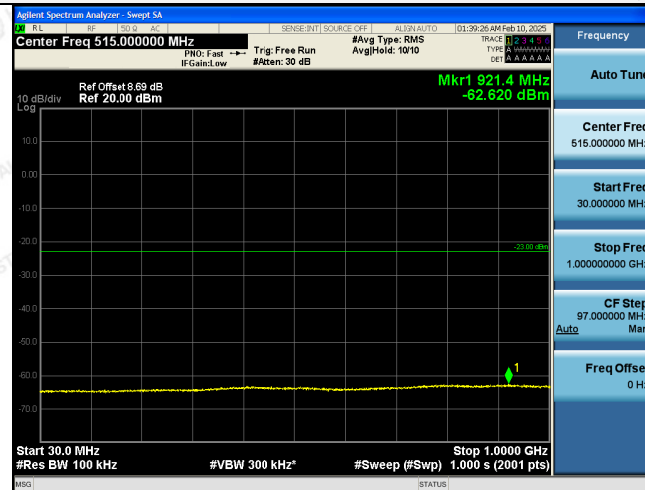
3 GHz ~20 GHz



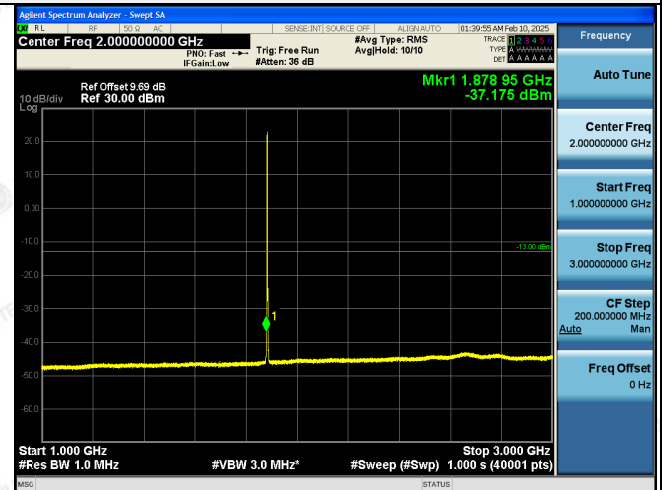
LTE Band 25-1.4MHz Channel Bandwidth

High Channel

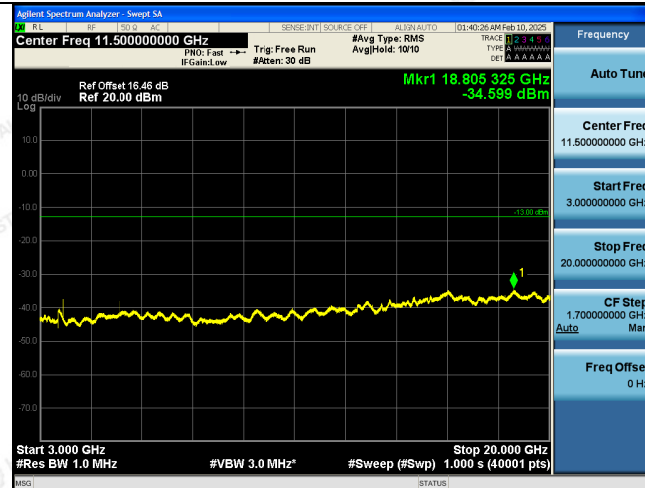
QPSK



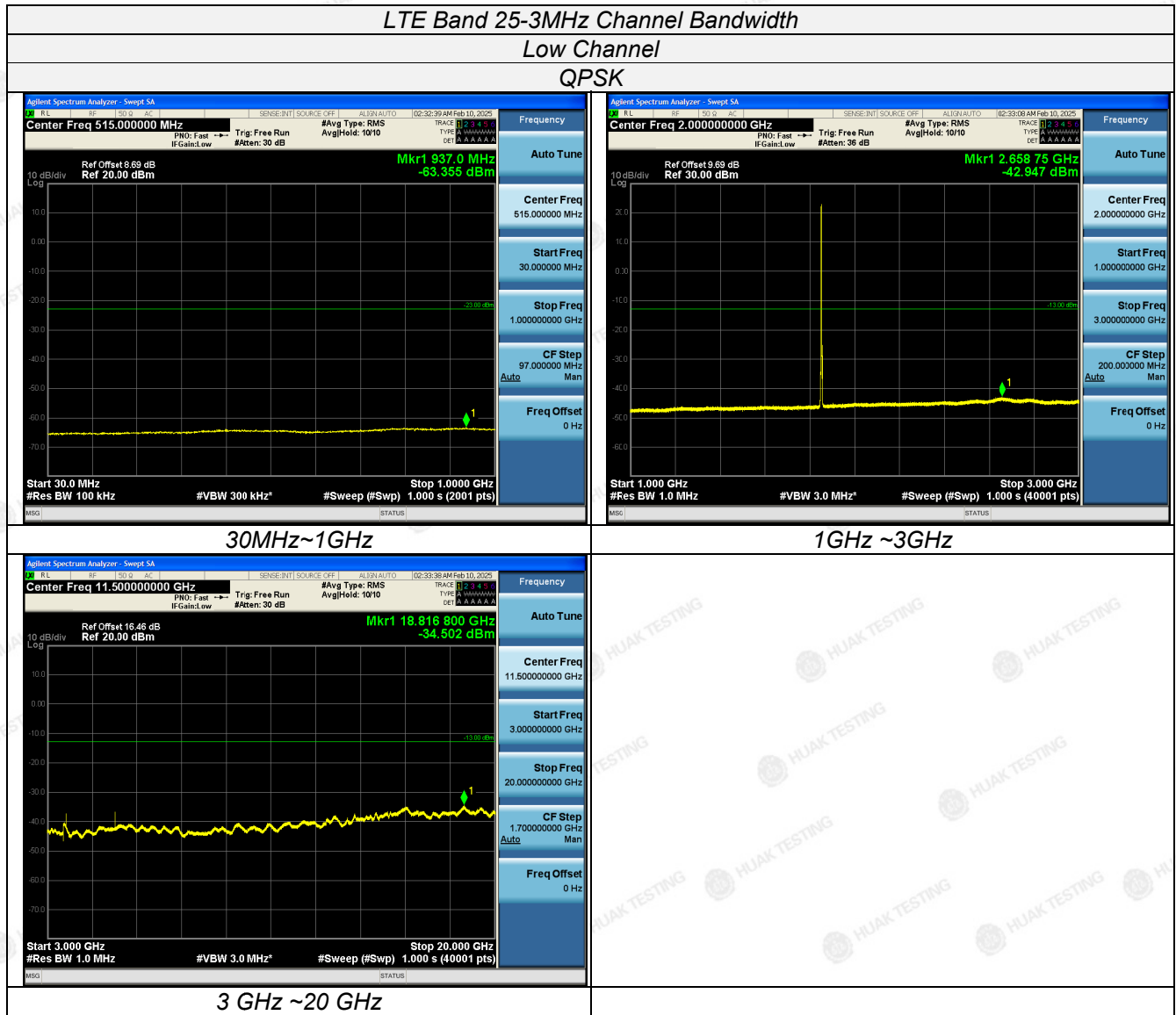
30MHz~1GHz



1GHz~3GHz



3 GHz~20 GHz

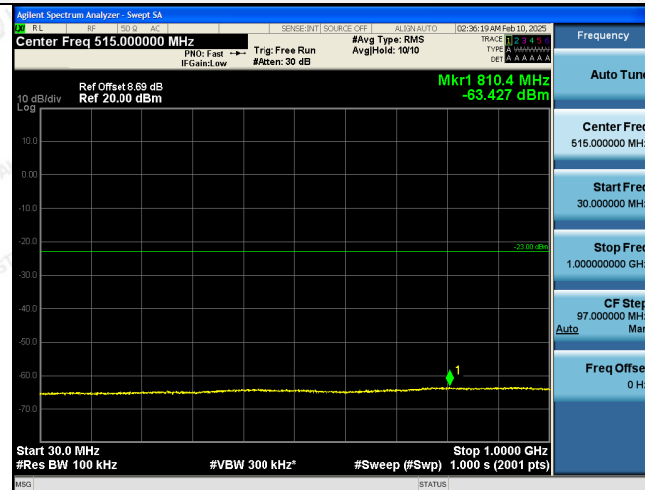




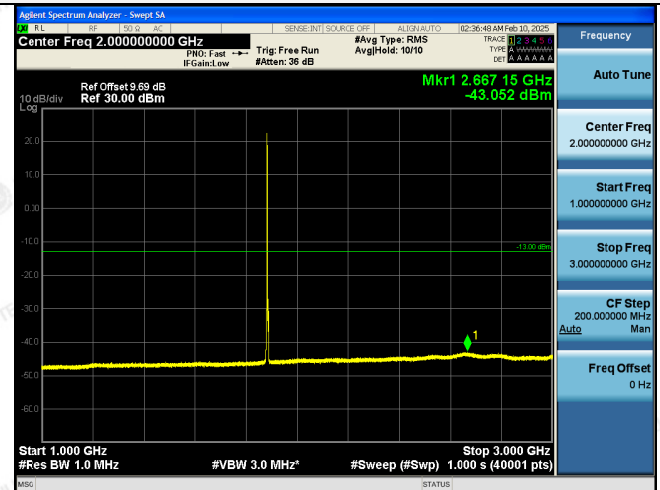
LTE Band 25-3MHz Channel Bandwidth

Middle Channel

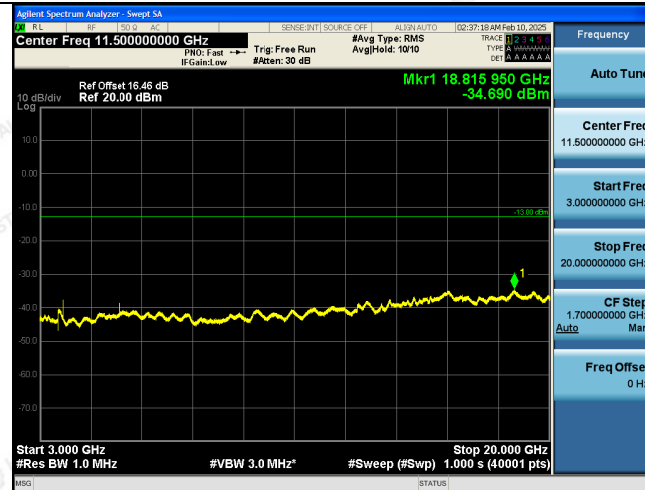
QPSK



30MHz~1GHz



1GHz ~3GHz



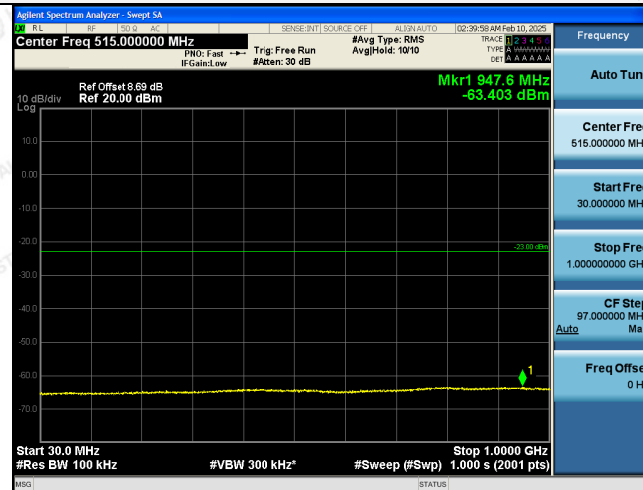
3 GHz ~20 GHz



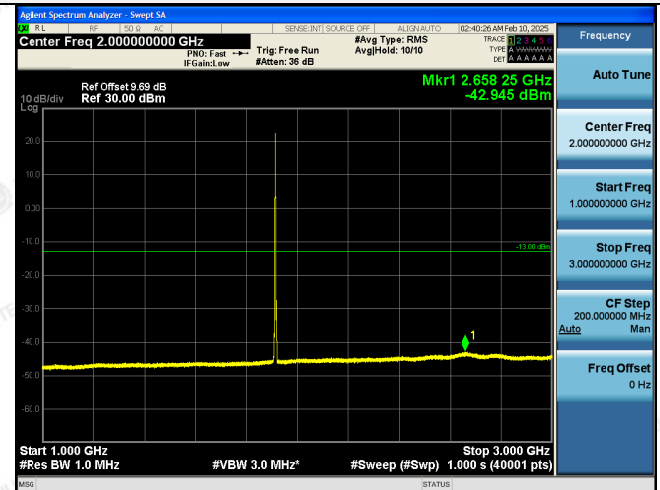
LTE Band 25-3MHz Channel Bandwidth

High Channel

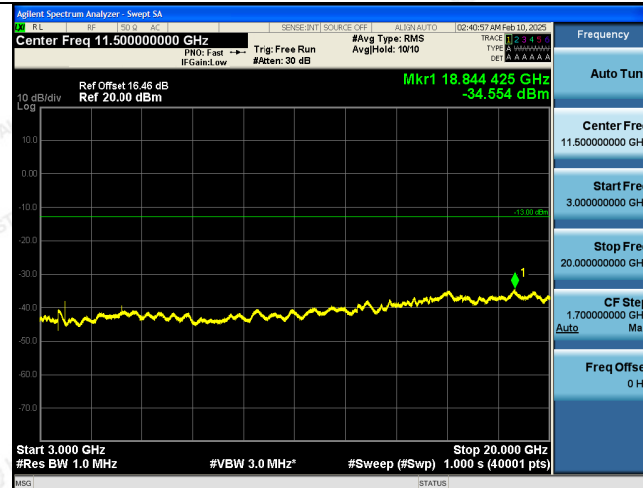
QPSK



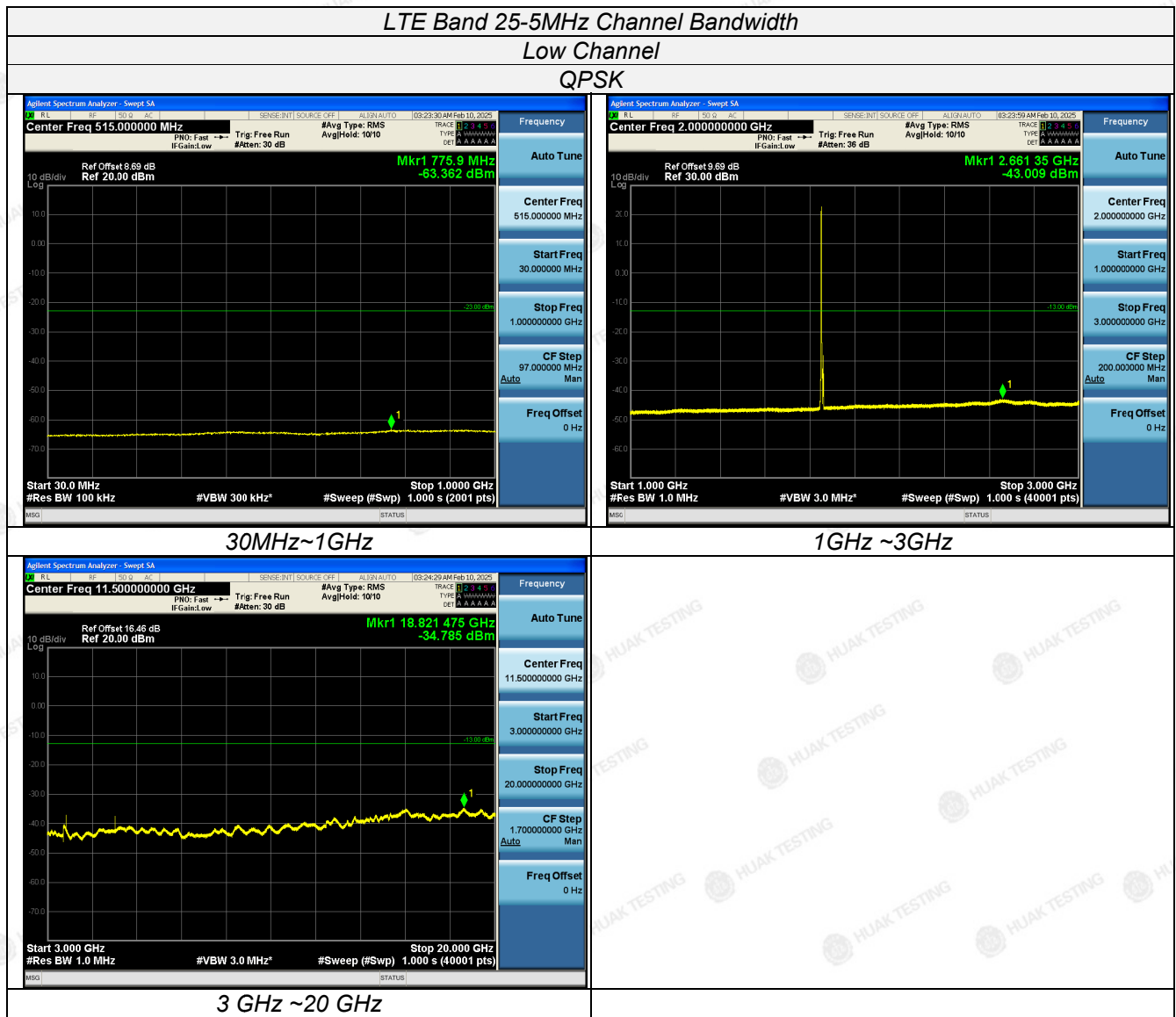
30MHz~1GHz



1GHz~3GHz



3 GHz~20 GHz

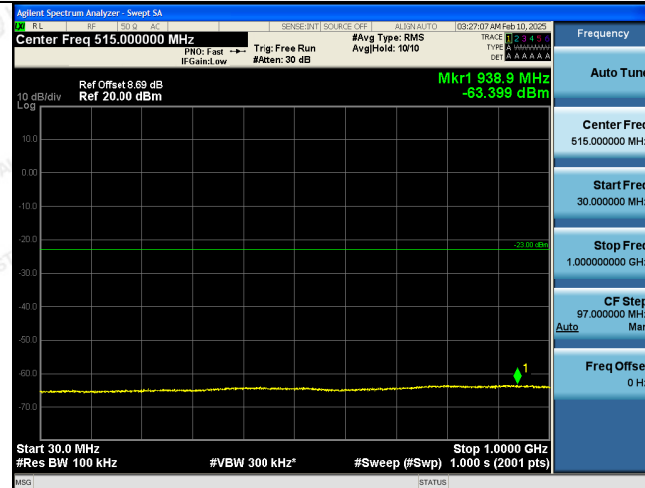




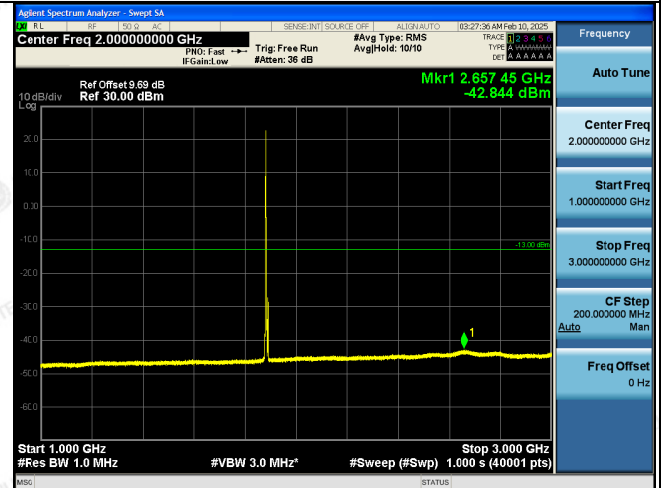
LTE Band 25-5MHz Channel Bandwidth

Middle Channel

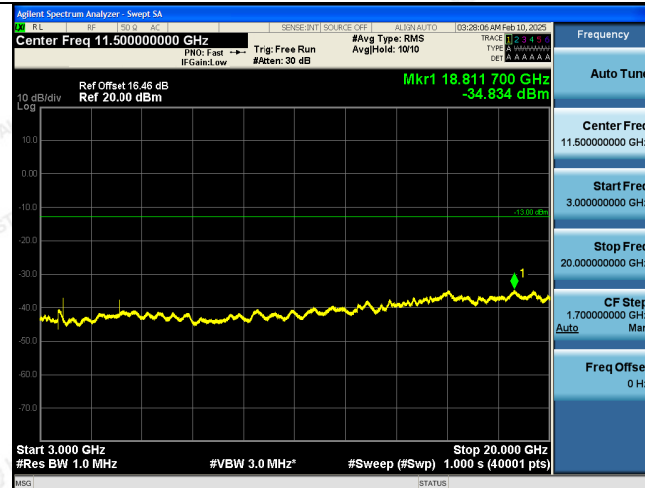
QPSK



30MHz~1GHz



1GHz~3GHz



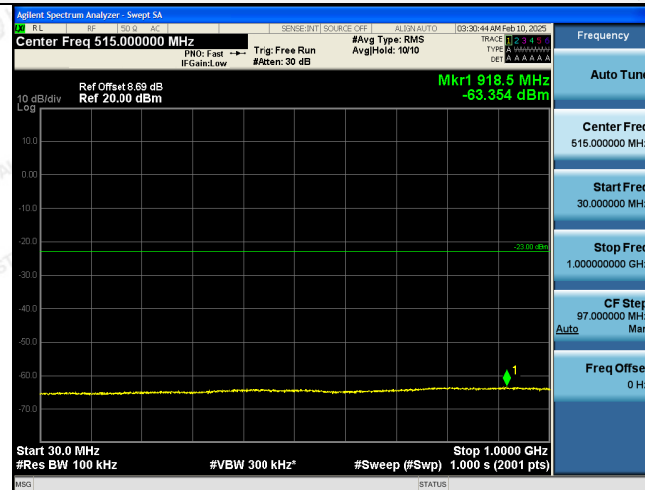
3 GHz~20 GHz



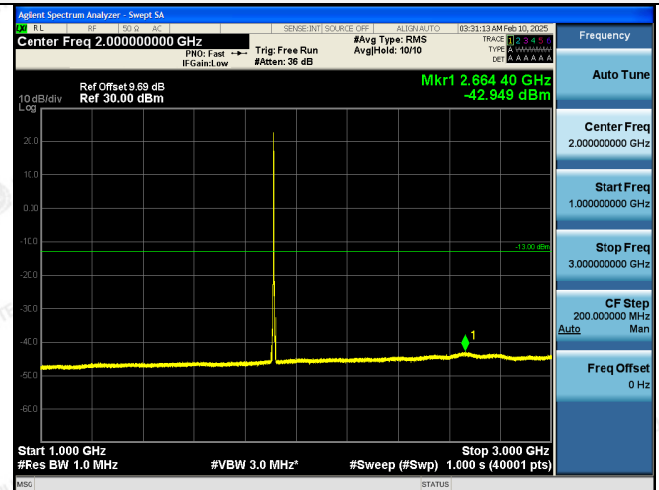
LTE Band 25-5MHz Channel Bandwidth

High Channel

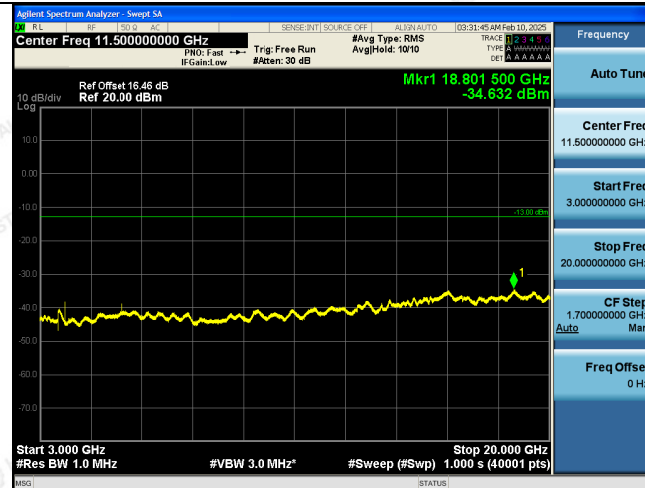
QPSK



30MHz~1GHz



1GHz ~3GHz



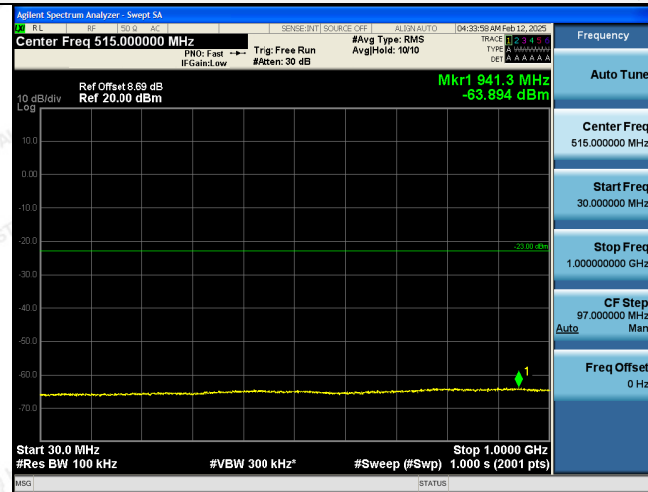
3 GHz ~20 GHz



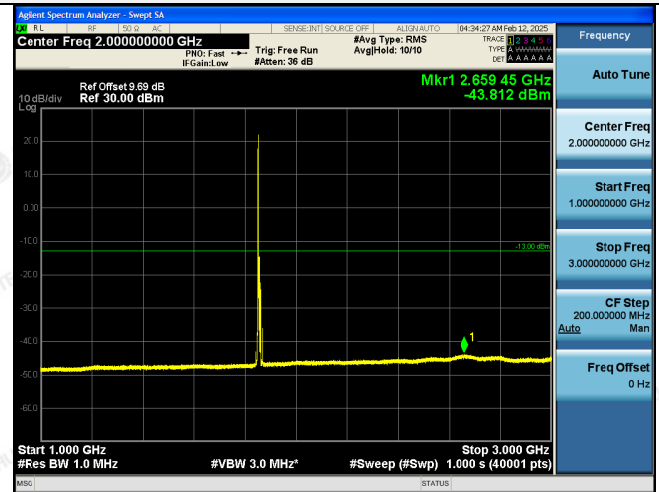
LTE Band 25-10MHz Channel Bandwidth

Low Channel

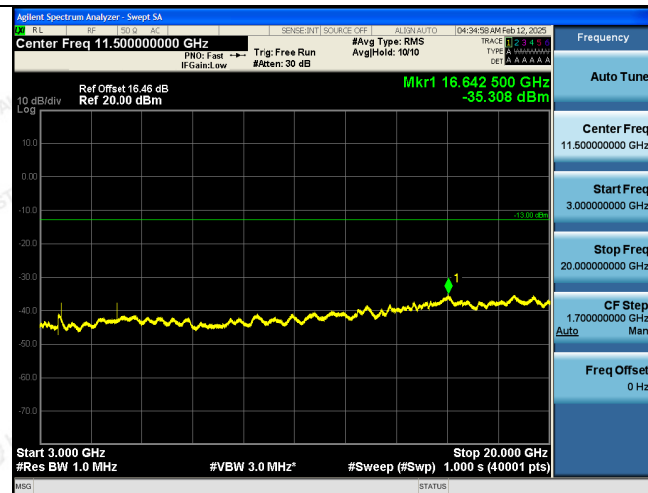
QPSK



30MHz~1GHz



1GHz ~3GHz



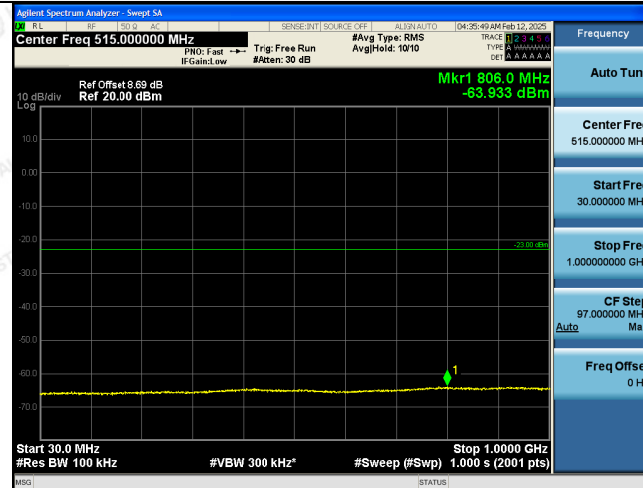
3 GHz ~20 GHz



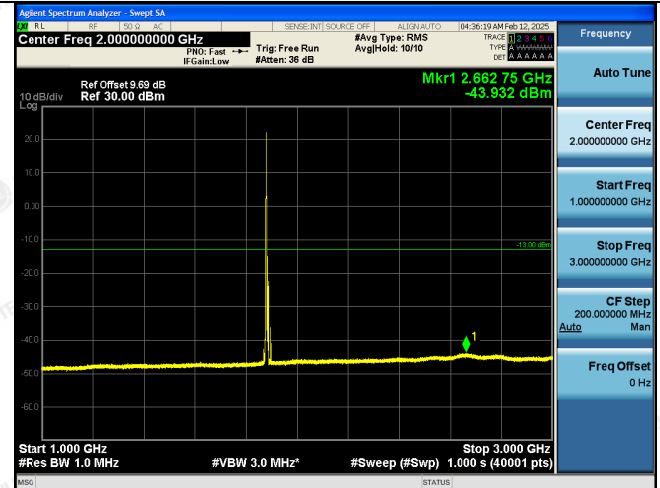
LTE Band 25-10MHz Channel Bandwidth

Middle Channel

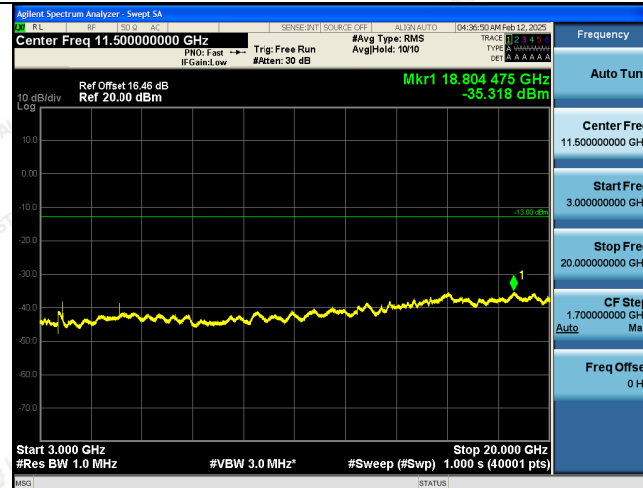
QPSK



30MHz~1GHz



1GHz~3GHz



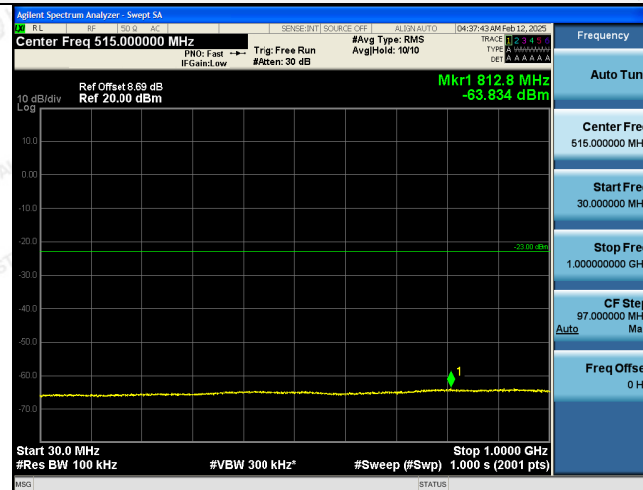
3 GHz~20 GHz



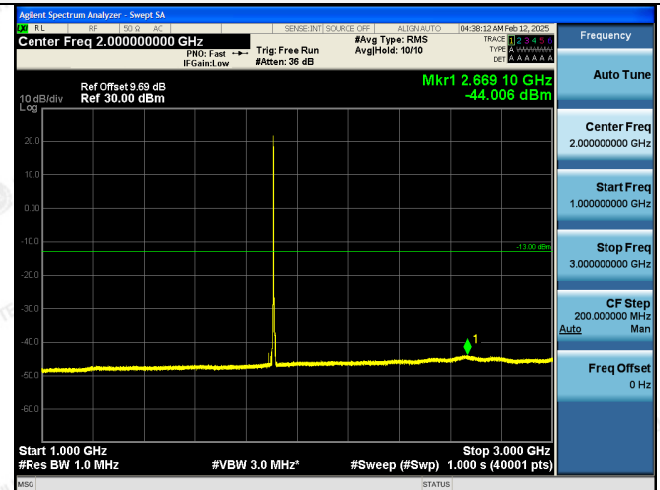
LTE Band 25-10MHz Channel Bandwidth

High Channel

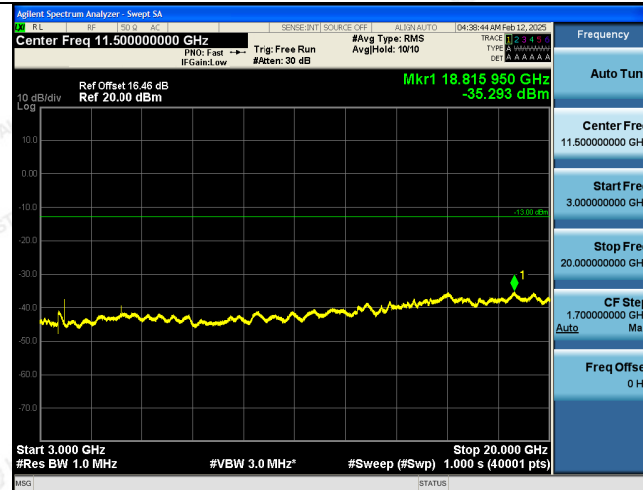
QPSK



30MHz~1GHz



1GHz~3GHz



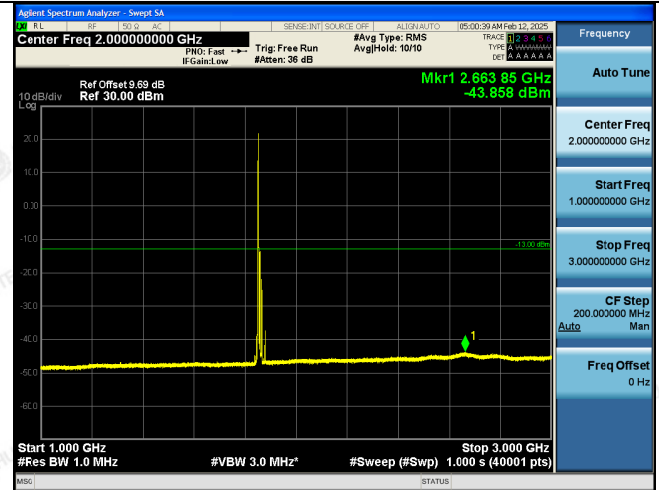
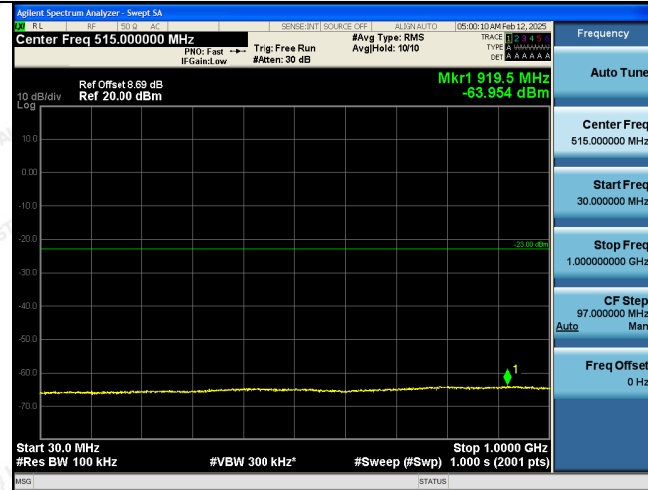
3 GHz~20 GHz



LTE Band 25-15MHz Channel Bandwidth

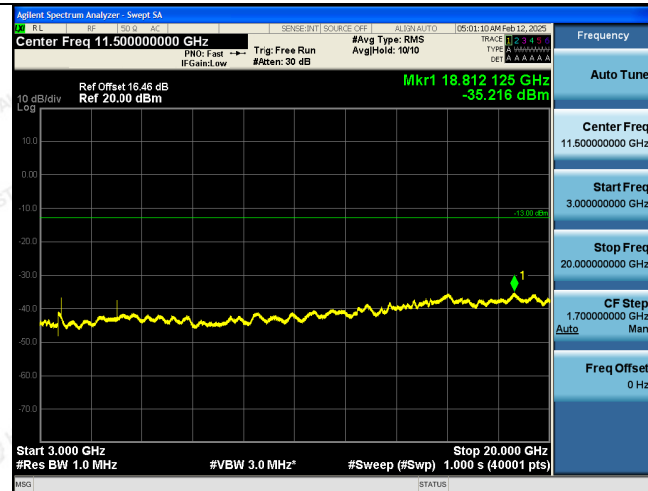
Low Channel

QPSK



30MHz~1GHz

1GHz ~3GHz



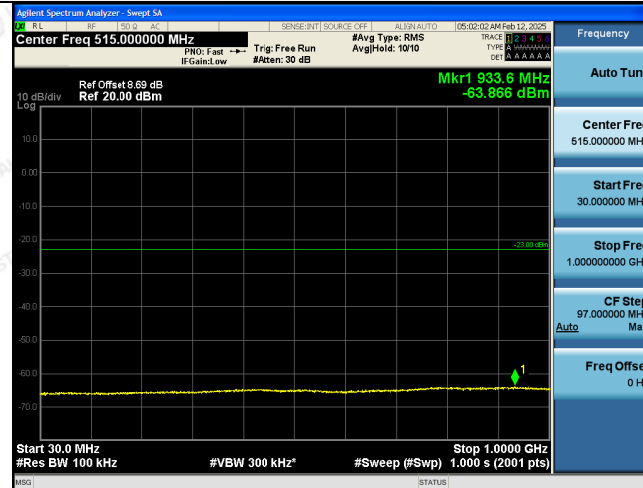
3 GHz ~20 GHz



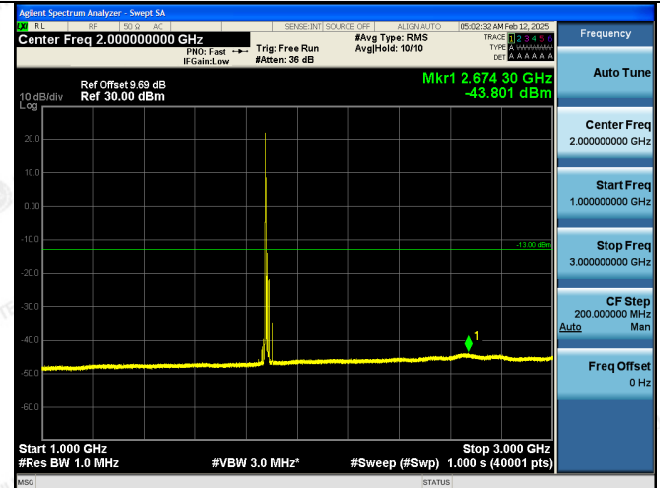
LTE Band 25-15MHz Channel Bandwidth

Middle Channel

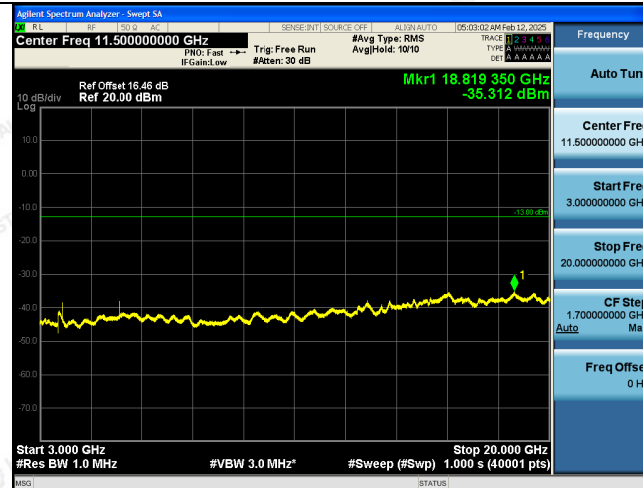
QPSK



30MHz~1GHz



1GHz~3GHz



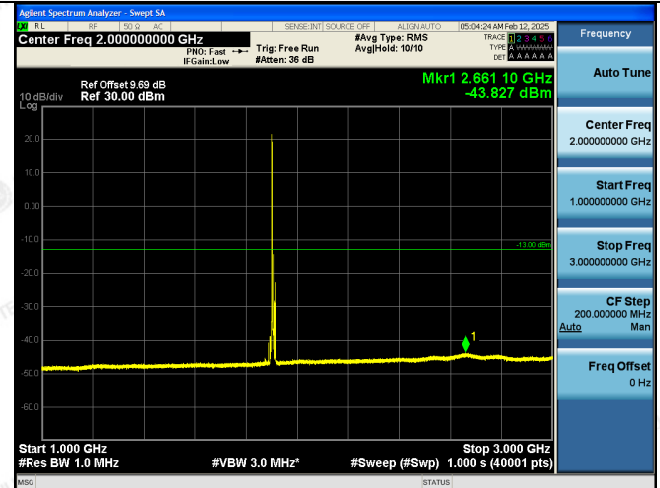
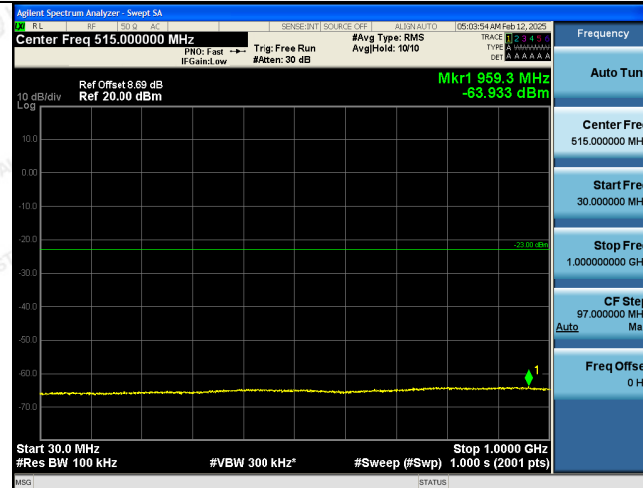
3 GHz~20 GHz



LTE Band 25-15MHz Channel Bandwidth

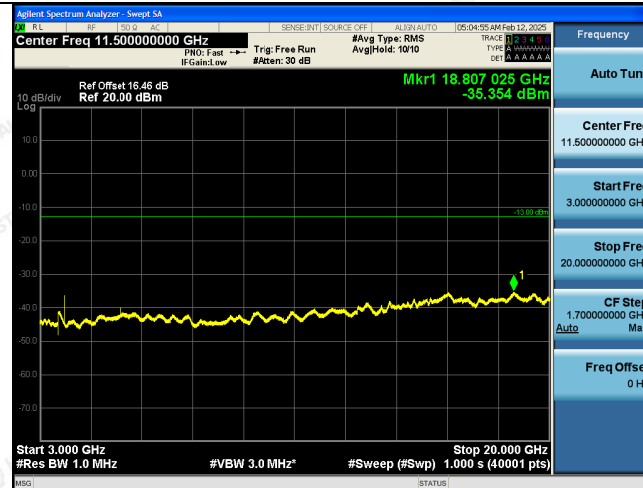
High Channel

QPSK



30MHz~1GHz

1GHz ~3GHz



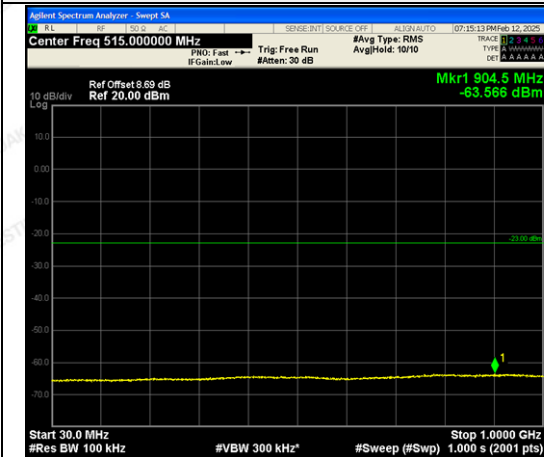
3 GHz ~20 GHz



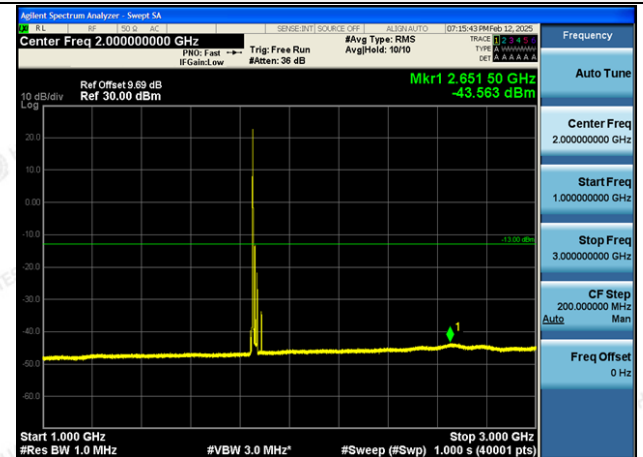
LTE Band 25-20MHz Channel Bandwidth

Low Channel

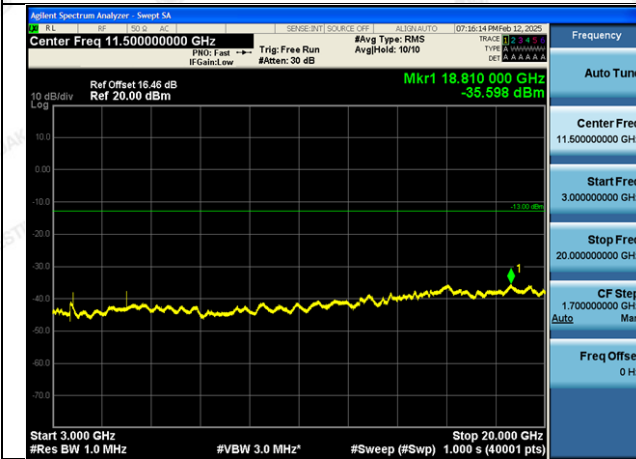
QPSK



30MHz~1GHz



1GHz~3GHz



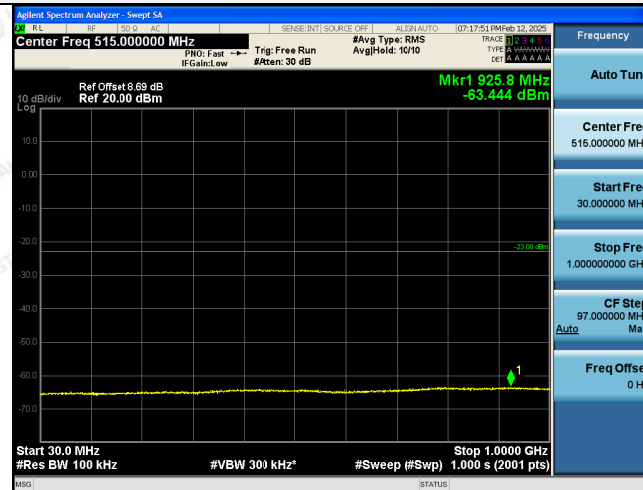
3 GHz~20 GHz



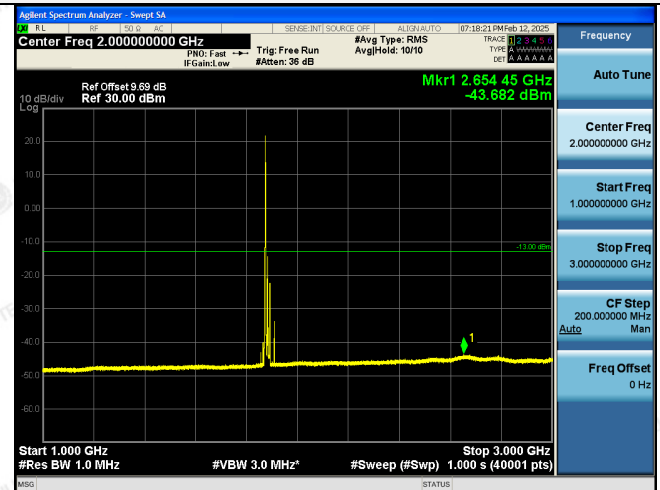
LTE Band 25-20MHz Channel Bandwidth

Middle Channel

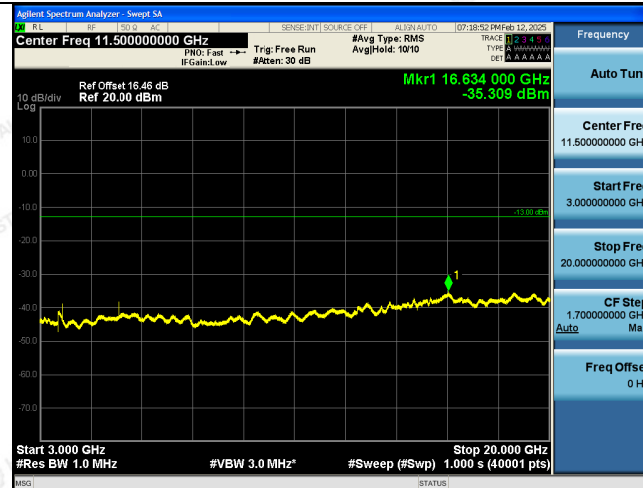
QPSK



30MHz~1GHz



1GHz~3GHz



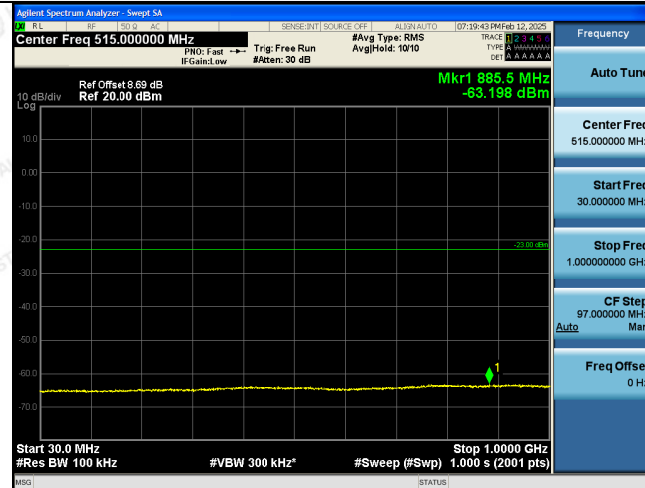
3 GHz~20 GHz



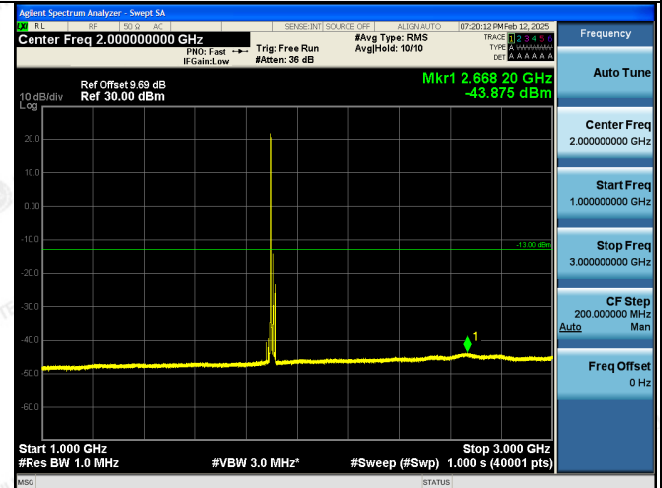
LTE Band 25-20MHz Channel Bandwidth

High Channel

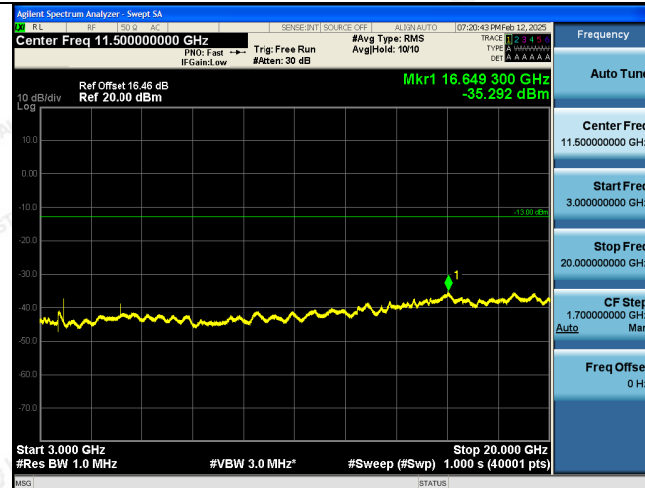
QPSK



30MHz~1GHz



1GHz~3GHz



3 GHz~20 GHz

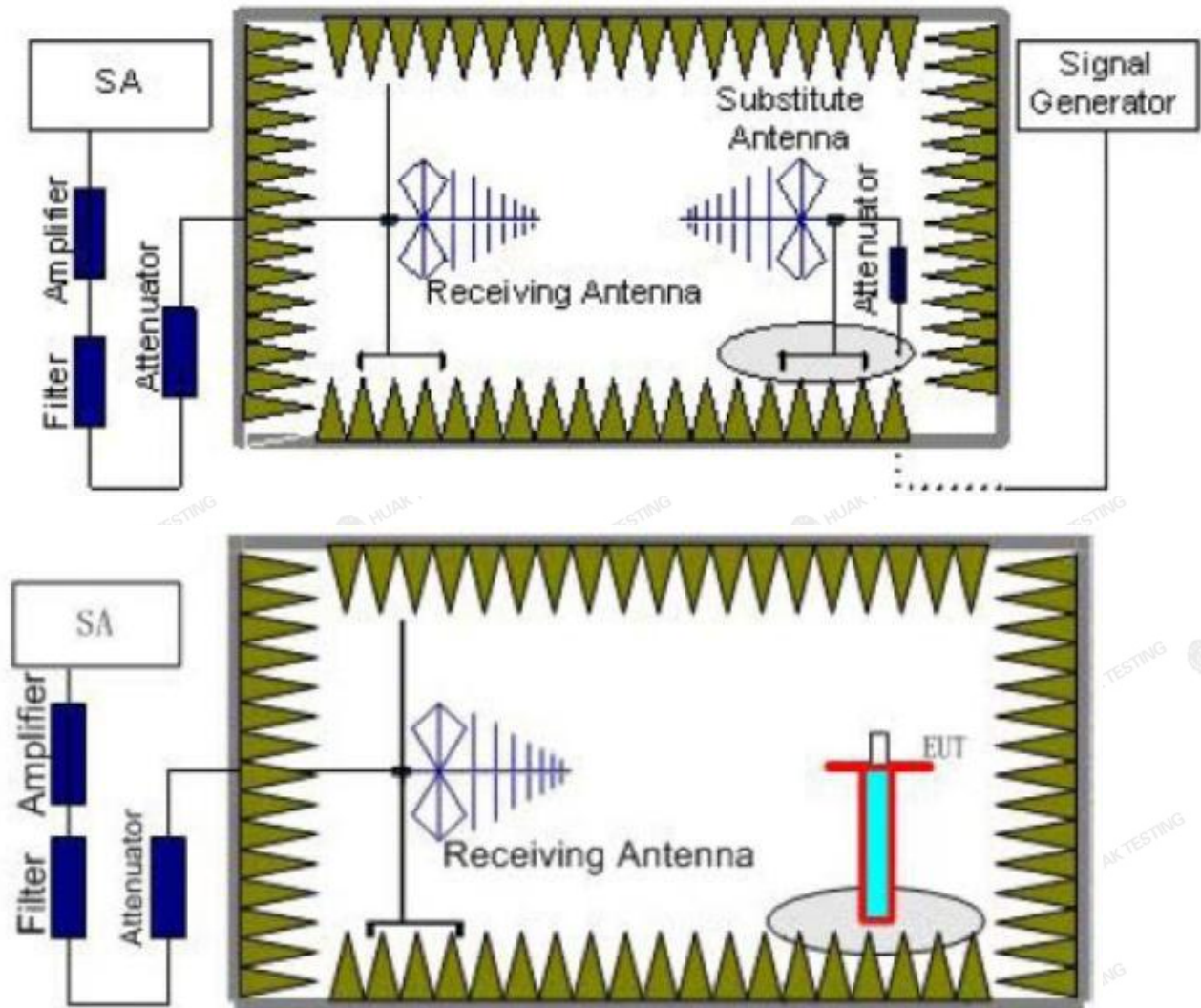


4.6 Radiated Spurious Emission

TEST APPLICABLE

Per FCC §24.238, 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.

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide 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.



- The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- The EUT shall be replaced by a substitution antenna. In the chamber, a 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 (P_{Mea}) 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 (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 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 (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.
The measurement results are obtained as described below:
 $Power(EIRP) = P_{Mea} - P_{cl} + G_a$
- 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, $ERP = EIRP - 2.15dBi$.
- In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
LTE Band 25	0.03~1	100KHz	300KHz	10
	1~20	1 MHz	3 MHz	2

TEST LIMITS

According to 24.238 specify 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. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Frequency	Channel	Frequency Range	Verdict
LTE Band 25	Low	30MHz -20GHz	PASS
	Middle	30MHz -20GHz	PASS
	High	30MHz -20GHz	PASS

Radiated Measurement:

Remark:

- We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case for each Channel Bandwidth of LTE Band 25.
- $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
- Not recorded other points as values lower than limits.
- Margin = Limit - EIRP

LTE Band 25 Channel Bandwidth 1.4MHz QPSK Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.4	-45.09	4.39	3.00	12.34	-37.14	-13.00	24.14	H
5552.1	-49.39	5.31	3.00	13.52	-41.18	-13.00	28.18	H
3701.4	-50.33	4.39	3.00	12.34	-42.38	-13.00	29.38	V
5552.1	-53.25	5.31	3.00	13.52	-45.04	-13.00	32.04	V

*LTE Band 25 Channel Bandwidth 1.4MHz_QPSK_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-40.16	4.41	3.00	12.34	-32.23	-13.00	19.23	H
5647.5	-48.87	5.38	3.00	13.58	-40.67	-13.00	27.67	H
3765	-43.71	4.41	3.00	12.34	-35.78	-13.00	22.78	V
5647.5	-45.1	5.38	3.00	13.58	-36.9	-13.00	23.9	V

LTE Band 25 Channel Bandwidth 1.4MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.6	-43.81	4.45	3.00	12.45	-35.81	-13.00	22.81	H
5742.9	-48.06	5.47	3.00	13.66	-39.87	-13.00	26.87	H
3828.6	-46.73	4.45	3.00	12.45	-38.73	-13.00	25.73	V
5742.9	-49.85	5.48	3.00	13.66	-41.67	-13.00	28.67	V

LTE Band 25 Channel Bandwidth 3MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3703.0	-43.8	4.39	3.00	12.34	-35.85	-13.00	22.85	H
5554.5	-48.84	5.31	3.00	13.52	-40.63	-13.00	27.63	H
3703.0	-41.36	4.39	3.00	12.34	-33.41	-13.00	20.41	V
5554.5	-51.03	5.31	3.00	13.52	-42.82	-13.00	29.82	V

LTE Band 25 Channel Bandwidth 3MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-43.13	4.41	3.00	12.34	-35.2	-13.00	22.2	H
5647.5	-49.91	5.38	3.00	13.58	-41.71	-13.00	28.71	H
3765	-42.53	4.41	3.00	12.34	-34.6	-13.00	21.6	V
5647.5	-51.21	5.38	3.00	13.58	-43.01	-13.00	30.01	V

LTE Band 25 Channel Bandwidth 3MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3827	-44.84	4.45	3.00	12.45	-36.84	-13.00	23.84	H
5740.5	-49.23	5.47	3.00	13.66	-41.04	-13.00	28.04	H
3827	-44.38	4.45	3.00	12.45	-36.38	-13.00	23.38	V
5740.5	-51.03	5.48	3.00	13.66	-42.85	-13.00	29.85	V

LTE Band 25 Channel Bandwidth 5MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.0	-43.98	4.39	3.00	12.34	-36.03	-13.00	23.03	H
5557.5	-48.84	5.31	3.00	13.52	-40.63	-13.00	27.63	H
3705.0	-41.75	4.39	3.00	12.34	-33.8	-13.00	20.8	V
5557.5	-51.04	5.31	3.00	13.52	-42.83	-13.00	29.83	V

*LTE Band 25_Channel Bandwidth 5MHz_QPSK_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-43.45	4.41	3.00	12.34	-35.52	-13.00	22.52	H
5647.5	-49.88	5.38	3.00	13.58	-41.68	-13.00	28.68	H
3765	-42.39	4.41	3.00	12.34	-34.46	-13.00	21.46	V
5647.5	-51.43	5.38	3.00	13.58	-43.23	-13.00	30.23	V

LTE Band 25_Channel Bandwidth 5MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3825	-43.9	4.45	3.00	12.45	-35.9	-13.00	22.9	H
5737.5	-46.87	5.47	3.00	13.66	-38.68	-13.00	25.68	H
3825	-45.47	4.45	3.00	12.45	-37.47	-13.00	24.47	V
5737.5	-50.69	5.48	3.00	13.66	-42.51	-13.00	29.51	V

LTE Band 25_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3710.0	-43.6	4.39	3.00	12.34	-35.65	-13.00	22.65	H
5565.0	-48.21	5.31	3.00	13.52	-40	-13.00	27	H
3710.0	-41.74	4.39	3.00	12.34	-33.79	-13.00	20.79	V
5565.0	-50.5	5.31	3.00	13.52	-42.29	-13.00	29.29	V

LTE Band 25_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-44.02	4.41	3.00	12.34	-36.09	-13.00	23.09	H
5647.5	-49.84	5.38	3.00	13.58	-41.64	-13.00	28.64	H
3765	-42.65	4.41	3.00	12.34	-34.72	-13.00	21.72	V
5647.5	-50.57	5.38	3.00	13.58	-42.37	-13.00	29.37	V

LTE Band 25_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3820	-43.9	4.45	3.00	12.45	-35.9	-13.00	22.9	H
5730	-48.12	5.47	3.00	13.66	-39.93	-13.00	26.93	H
3820	-45.8	4.45	3.00	12.45	-37.8	-13.00	24.8	V
5730	-50.86	5.48	3.00	13.66	-42.68	-13.00	29.68	V

LTE Band 25_Channel Bandwidth 15MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3715.0	-43.94	4.39	3.00	12.34	-35.99	-13.00	22.99	H
5572.5	-48.81	5.31	3.00	13.52	-40.6	-13.00	27.6	H
3715.0	-41.26	4.39	3.00	12.34	-33.31	-13.00	20.31	V
5572.5	-51.32	5.31	3.00	13.52	-43.11	-13.00	30.11	V

*LTE Band 25_Channel Bandwidth 15MHz_QPSK_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-42.09	4.41	3.00	12.34	-34.16	-13.00	21.16	H
5647.5	-49.51	5.38	3.00	13.58	-41.31	-13.00	28.31	H
3765	-41.32	4.41	3.00	12.34	-33.39	-13.00	20.39	V
5647.5	-50.64	5.38	3.00	13.58	-42.44	-13.00	29.44	V

LTE Band 25_Channel Bandwidth 15MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815	-44.11	4.45	3.00	12.45	-36.11	-13.00	23.11	H
5722.5	-46.99	5.47	3.00	13.66	-38.8	-13.00	25.8	H
3815	-46.35	4.45	3.00	12.45	-38.35	-13.00	25.35	V
5722.5	-51.97	5.48	3.00	13.66	-43.79	-13.00	30.79	V

LTE Band 25_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3720.0	-44.05	4.39	3.00	12.34	-36.1	-13.00	23.1	H
5580.0	-48.72	5.31	3.00	13.52	-40.51	-13.00	27.51	H
3720.0	-41.31	4.39	3.00	12.34	-33.36	-13.00	20.36	V
5580.0	-51.28	5.31	3.00	13.52	-43.07	-13.00	30.07	V

LTE Band 25_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-41.86	4.41	3.00	12.34	-33.93	-13.00	20.93	H
5647.5	-49.98	5.38	3.00	13.58	-41.78	-13.00	28.78	H
3765	-43.29	4.41	3.00	12.34	-35.36	-13.00	22.36	V
5647.5	-51.45	5.38	3.00	13.58	-43.25	-13.00	30.25	V

LTE Band 25_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3810	-44.69	4.45	3.00	12.45	-36.69	-13.00	23.69	H
5715	-48.18	5.47	3.00	13.66	-39.99	-13.00	26.99	H
3810	-45.56	4.45	3.00	12.45	-37.56	-13.00	24.56	V
5715	-51.23	5.48	3.00	13.66	-43.05	-13.00	30.05	V

LTE Band 25_Channel Bandwidth 1.4MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.4	-43.75	4.39	3.00	12.34	-35.8	-13.00	22.8	H
5552.1	-48.89	5.31	3.00	13.52	-40.68	-13.00	27.68	H
3701.4	-41.97	4.39	3.00	12.34	-34.02	-13.00	21.02	V
5552.1	-51.7	5.31	3.00	13.52	-43.49	-13.00	30.49	V

*LTE Band 25_Channel Bandwidth 1.4MHz_16QAM_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-42.67	4.41	3.00	12.34	-34.74	-13.00	21.74	H
5647.5	-49.14	5.38	3.00	13.58	-40.94	-13.00	27.94	H
3765	-43.12	4.41	3.00	12.34	-35.19	-13.00	22.19	V
5647.5	-51.51	5.38	3.00	13.58	-43.31	-13.00	30.31	V

LTE Band 25_Channel Bandwidth 1.4MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.6	-44.09	4.45	3.00	12.45	-36.09	-13.00	23.09	H
5742.9	-48.4	5.47	3.00	13.66	-40.21	-13.00	27.21	H
3828.6	-46.24	4.45	3.00	12.45	-38.24	-13.00	25.24	V
5742.9	-49.99	5.48	3.00	13.66	-41.81	-13.00	28.81	V

LTE Band 25_Channel Bandwidth 3MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3703.0	-44.97	4.39	3.00	12.34	-37.02	-13.00	24.02	H
5554.5	-48.72	5.31	3.00	13.52	-40.51	-13.00	27.51	H
3703.0	-50.26	4.39	3.00	12.34	-42.31	-13.00	29.31	V
5554.5	-54.59	5.31	3.00	13.52	-46.38	-13.00	33.38	V

LTE Band 25_Channel Bandwidth 3MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-42.96	4.41	3.00	12.34	-35.03	-13.00	22.03	H
5647.5	-47.1	5.38	3.00	13.58	-38.9	-13.00	25.9	H
3765	-49.35	4.41	3.00	12.34	-41.42	-13.00	28.42	V
5647.5	-53.63	5.38	3.00	13.58	-45.43	-13.00	32.43	V

LTE Band 25_Channel Bandwidth 3MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3827	-44.12	4.45	3.00	12.45	-36.12	-13.00	23.12	H
5740.5	-49.55	5.47	3.00	13.66	-41.36	-13.00	28.36	H
3827	-49.92	4.45	3.00	12.45	-41.92	-13.00	28.92	V
5740.5	-57.1	5.48	3.00	13.66	-48.92	-13.00	35.92	V

LTE Band 25_Channel Bandwidth 5MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.0	-45.79	4.39	3.00	12.34	-37.84	-13.00	24.84	H
5557.5	-48.07	5.31	3.00	13.52	-39.86	-13.00	26.86	H
3705.0	-51.04	4.39	3.00	12.34	-43.09	-13.00	30.09	V
5557.5	-53.79	5.31	3.00	13.52	-45.58	-13.00	32.58	V

*LTE Band 25_Channel Bandwidth 5MHz_16QAM_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-42.92	4.41	3.00	12.34	-34.99	-13.00	21.99	H
5647.5	-48.35	5.38	3.00	13.58	-40.15	-13.00	27.15	H
3765	-49.42	4.41	3.00	12.34	-41.49	-13.00	28.49	V
5647.5	-52.76	5.38	3.00	13.58	-44.56	-13.00	31.56	V

LTE Band 25_Channel Bandwidth 5MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3825	-44.94	4.45	3.00	12.45	-36.94	-13.00	23.94	H
5737.5	-50.72	5.47	3.00	13.66	-42.53	-13.00	29.53	H
3825	-50.14	4.45	3.00	12.45	-42.14	-13.00	29.14	V
5737.5	-56.27	5.48	3.00	13.66	-48.09	-13.00	35.09	V

LTE Band 25_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3710.0	-45.86	4.39	3.00	12.34	-37.91	-13.00	24.91	H
5565.0	-47.53	5.31	3.00	13.52	-39.32	-13.00	26.32	H
3710.0	-50.54	4.39	3.00	12.34	-42.59	-13.00	29.59	V
5565.0	-53.65	5.31	3.00	13.52	-45.44	-13.00	32.44	V

LTE Band 25_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-43.74	4.41	3.00	12.34	-35.81	-13.00	22.81	H
5647.5	-47.33	5.38	3.00	13.58	-39.13	-13.00	26.13	H
3765	-50.12	4.41	3.00	12.34	-42.19	-13.00	29.19	V
5647.5	-52.09	5.38	3.00	13.58	-43.89	-13.00	30.89	V

LTE Band 25_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3820	-44.69	4.45	3.00	12.45	-36.69	-13.00	23.69	H
5730	-50.88	5.47	3.00	13.66	-42.69	-13.00	29.69	H
3820	-50.13	4.45	3.00	12.45	-42.13	-13.00	29.13	V
5730	-56.94	5.48	3.00	13.66	-48.76	-13.00	35.76	V

LTE Band 25_Channel Bandwidth 15MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3715.0	-46.45	4.39	3.00	12.34	-38.5	-13.00	25.5	H
5572.5	-49.1	5.31	3.00	13.52	-40.89	-13.00	27.89	H
3715.0	-50.91	4.39	3.00	12.34	-42.96	-13.00	29.96	V
5572.5	-54.04	5.31	3.00	13.52	-45.83	-13.00	32.83	V

*LTE Band 25_Channel Bandwidth 15MHz_16QAM_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-42.28	4.41	3.00	12.34	-34.35	-13.00	21.35	H
5647.5	-48.04	5.38	3.00	13.58	-39.84	-13.00	26.84	H
3765	-49.81	4.41	3.00	12.34	-41.88	-13.00	28.88	V
5647.5	-53.77	5.38	3.00	13.58	-45.57	-13.00	32.57	V

LTE Band 25_Channel Bandwidth 15MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815	-44.61	4.45	3.00	12.45	-36.61	-13.00	23.61	H
5722.5	-50.32	5.47	3.00	13.66	-42.13	-13.00	29.13	H
3815	-48.96	4.45	3.00	12.45	-40.96	-13.00	27.96	V
5722.5	-57.45	5.48	3.00	13.66	-49.27	-13.00	36.27	V

LTE Band 25_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3720.0	-47.47	4.39	3.00	12.34	-39.52	-13.00	26.52	H
5580.0	-48.19	5.31	3.00	13.52	-39.98	-13.00	26.98	H
3720.0	-51.98	4.39	3.00	12.34	-44.03	-13.00	31.03	V
5580.0	-54.45	5.31	3.00	13.52	-46.24	-13.00	33.24	V

LTE Band 25_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-43.02	4.41	3.00	12.34	-35.09	-13.00	22.09	H
5647.5	-47.95	5.38	3.00	13.58	-39.75	-13.00	26.75	H
3765	-49.52	4.41	3.00	12.34	-41.59	-13.00	28.59	V
5647.5	-52.84	5.38	3.00	13.58	-44.64	-13.00	31.64	V

LTE Band 25_Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3810	-45.51	4.45	3.00	12.45	-37.51	-13.00	24.51	H
5715	-50.82	5.47	3.00	13.66	-42.63	-13.00	29.63	H
3810	-49.58	4.45	3.00	12.45	-41.58	-13.00	28.58	V
5715	-56.33	5.48	3.00	13.66	-48.15	-13.00	35.15	V

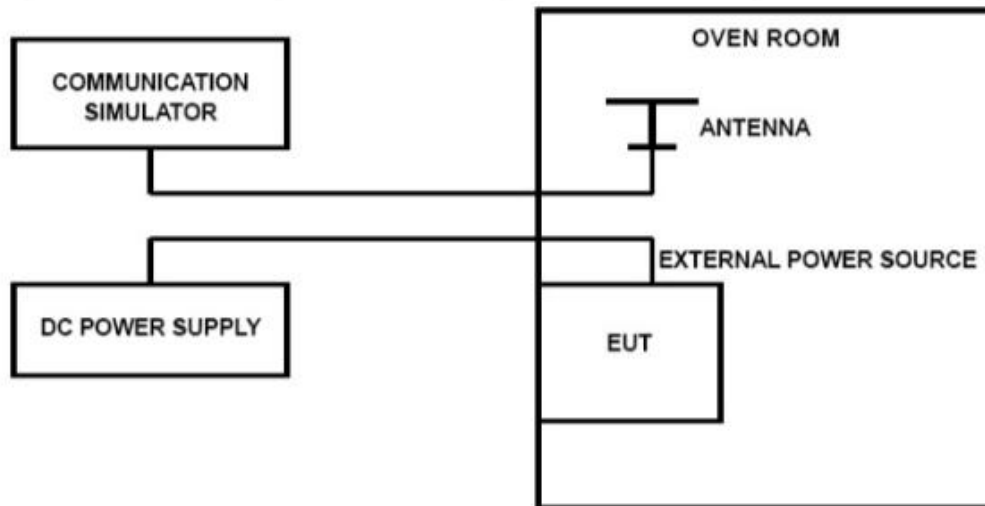


4.7 Frequency Stability

LIMIT

According to §24.235, §2.1055 requirement, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 2, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1V increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

**TEST RESULTS**

Remark:

1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 25; recorded worst case.

LTE Band 25, 1.4MHz bandwidth , QPSK (worst case of all bandwidths)

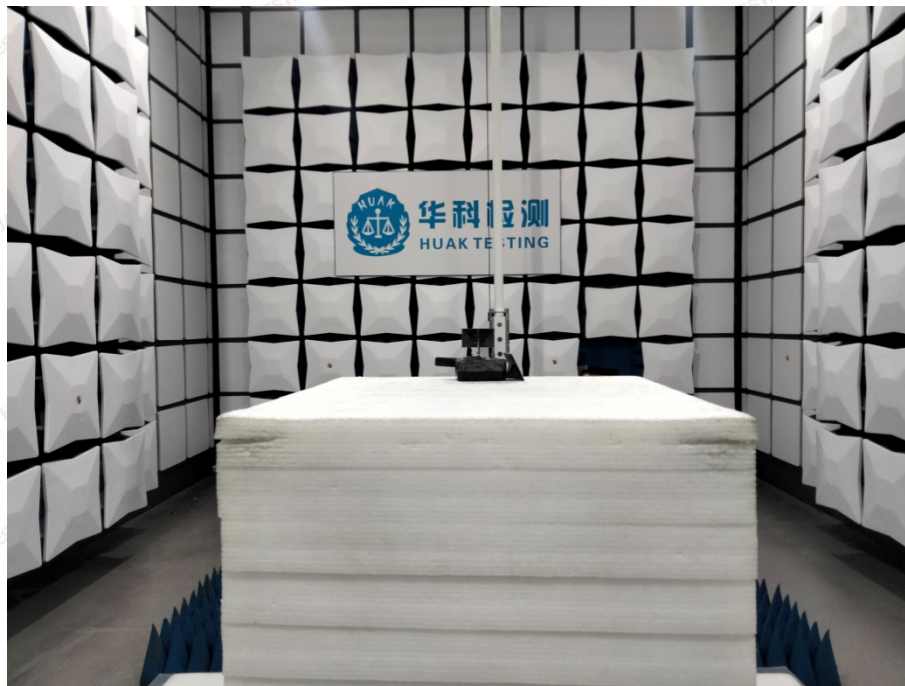
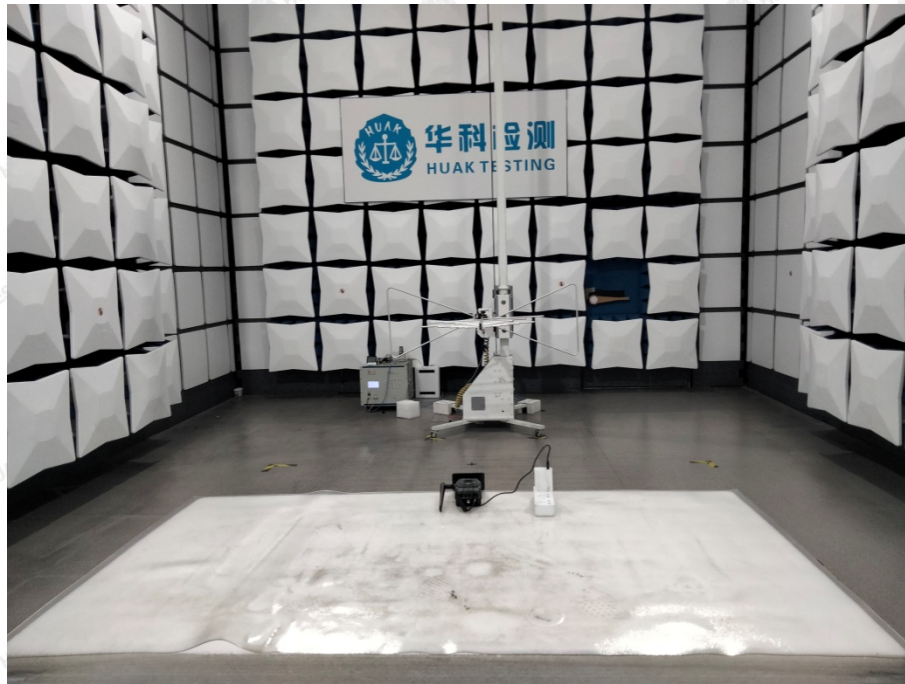
LTE Band 25					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
4.25	20	-6.62	-0.003577	2.50	PASS
5.0	20	-4.79	-0.002588	2.50	PASS
5.75	20	-5.78	-0.003123	2.50	PASS
5.0	-30	-4.62	-0.002496	2.50	PASS
5.0	-20	-3.45	-0.001864	2.50	PASS
5.0	-10	-3.40	-0.001837	2.50	PASS
5.0	0	-4.86	-0.002626	2.50	PASS
5.0	10	-5.92	-0.003199	2.50	PASS
5.0	20	-3.91	-0.002113	2.50	PASS
5.0	30	3.36	0.001785	2.50	PASS
5.0	40	3.46	0.001838	2.50	PASS
5.0	50	-3.50	-0.001859	2.50	PASS

LTE Band 25, 1.4MHz bandwidth , 16QAM (worst case of all bandwidths)

LTE Band 25					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
4.25	20	-3.46	-0.001870	2.50	PASS
5.0	20	-3.60	-0.001945	2.50	PASS
5.75	20	-3.88	-0.002097	2.50	PASS
5.0	-30	-5.52	-0.002983	2.50	PASS
5.0	-20	-5.19	-0.002804	2.50	PASS
5.0	-10	-3.66	-0.001978	2.50	PASS
5.0	0	-5.24	-0.002831	2.50	PASS
5.0	10	-3.71	-0.002005	2.50	PASS
5.0	20	-5.55	-0.002999	2.50	PASS
5.0	30	4.92	0.002614	2.50	PASS
5.0	40	3.49	0.001854	2.50	PASS
5.0	50	3.95	0.002098	2.50	PASS



5 Test Setup Photos of the EUT





6 Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

.....**End of Report**.....