Certificate #7130.01

FCC Radio Test Report

FCC ID: 2AIBC-GOLIGHT3

This report concerns: Original Grant

Project No.	:	2410C020
Equipment	:	Light Phone III
Brand Name	:	Light
Test Model	:	TLP301
Series Model	:	N/A
Applicant	:	The Light Phone Inc.
Address	:	19 Morris Avenue Brooklyn, NY 11205 United States
Manufacturer	:	The Light Phone Inc.
Address	:	19 Morris Avenue Brooklyn, NY 11205 United States
Factory	:	SHENZHEN FUTAIHONG PRECISION INDUSTRY CO.,LTD.
Address	:	ROOM 101, FOXCONN F7 FACTORY, NO.2, DONGHUAN 2ND ROAD, FUKANG COMMUNITY, LONGHUA STREET, LONGHUA DISTRICT, SHENZHEN, P.R.CHINA
Date of Receipt	:	Oct. 09, 2024
Date of Test	:	Oct. 11, 2024 ~ Feb. 18, 2025
Issued Date	:	Mar. 03, 2025
Report Version	:	R01
Test Sample	:	Engineering Sample No.: SSL20241009197 for radiated, SSL20250102152, SSL20241009196, SSL20241009195 for conducted.
Standard(s)	:	47 CFR FCC Part 90 Subpart S 47 CFR FCC Part 2

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by : Edward Li

Edward Li

Approved by : Steven Lu

Steven Lu

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Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-11-2410C020	R00	Original Report.	Feb. 20, 2025	Invalid
BTL-FCCP-11-2410C020	R01	Update the address of applicant.	Mar. 03, 2025	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
ANSI C63.26-2015
The following reference test guidance is not within the scope of accreditation of A2LA:
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 90 Subpart S & Part 2			
Standard(s) Section	**Test Item**	**Judgment**	**Remark**
2.1046 & 90.635 (b)	Effective Radiated Power	PASS	------
2.1049 & 90.209	Occupied Bandwidth	PASS	------
2.1053 & 90.669	Conducted Spurious Emissions	PASS	------
2.1053 & 90.669	Radiated Spurious Emissions	PASS	------
2.1053 & 90.691	Mask Measurements	PASS	------
-	Peak To Average Ratio	PASS	Record Only
2.1055 & 90.213	Frequency Stability	PASS	------

Note:
(1) “N/A” denotes test is not applicable in this test report.

2.1 TEST FACILITY

For Radiated test:
The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

For others:
Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.
BTL's Registration Number for FCC: 747969
BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	*U*,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±1.74 dB
Maximum Output Power	±0.87 dB
Frequency Stability	±53.10Hz
Conducted Spurious Emissions	2.71 dB
Temperature	±0.48 °C
Humidity	±1.37 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
Output Power & ERP	25°C	37%	DC 3.8V	Gavin Ge	Oct. 11, 2024 ~ Feb. 18, 2025
Occupied Bandwidth	25°C	37%	DC 3.8V	Gavin Ge	Oct. 11, 2024 ~ Feb. 18, 2025
Conducted Spurious Emissions	25°C	37%	DC 3.8V	Gavin Ge	Oct. 11, 2024 ~ Feb. 18, 2025
Radiated Spurious Emissions (9 kHz to 30 MHz)	26°C	47%	DC 3.8V	Vance Lv	Dec. 12, 2024
Radiated Spurious Emissions (30 MHz to 1000 MHz)	21-23°C	38-49%	DC 3.8V	Allen Tong	Dec. 15, 2024 Dec. 18, 2024
Radiated Spurious Emissions (Above 1000 MHz)	23-24°C	49-59%	DC 3.8V	Allen Tong Calvin Wen	Dec. 15, 2024 Dec. 22, 2024
Band Edge	25°C	37%	DC 3.8V	Gavin Ge	Oct. 11, 2024 ~ Feb. 18, 2025
Peak To Average Ratio	25°C	37%	DC 3.8V	Gavin Ge	Oct. 11, 2024 ~ Feb. 18, 2025
Frequency Stability	25°C	37%	DC 3.8V	Gavin Ge	Oct. 11, 2024 ~ Feb. 18, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Light Phone III				
Brand Name	Light				
Test Model	TLP301				
Series Model	N/A				
Model Difference(s)	N/A				
Software Version	V1.330.00.0_B01_00WW				
Hardware Version	DVT				
Power Source	1# Supplied from USB-C port. 2# Battery supplied. Model: HE414				
Power Rating	1# DC 5V/900mA 2# Rated Capacity: 1730mAh/6.67Wh 1800mAh/6.93Wh Rated Voltage: 3.85V				
IMEI No.	Radiated	359125420005706			
	Conducted	359125420007496/359125420003834/359125420004907			
Modulation Type	LTE	UL: QPSK,16QAM,64QAM,256QAM DL: QPSK,16QAM,64QAM,256QAM			
	5G NR	DFT-s-OFDM PI/2 BPSK			
		DFT-s-OFDM QPSK	CP-OFDM QPSK		
		DFT-s-OFDM 16QAM	CP-OFDM 16QAM		
		DFT-s-OFDM 64QAM	CP-OFDM 64QAM		
		DFT-s-OFDM 256QAM	CP-OFDM 256QAM		
Max. ERP	LTE Band 26	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)	64QAM (dBm)
		1.4	17.78	17.06	15.26
		3	17.80	17.13	15.26
		5	17.80	17.23	15.20
		10	17.76	17.11	15.16
	5G NR n26	Please refer to note 2.			

Note:

1. For a more detailed features description, please refer to the manufacturer’s specifications or the user's manual.

2. Max. ERP For 5G NR n26:

Band	Channel Bandwidth (MHz)	Modulation Type	ERP (dBm)
N26(814-824)	5M	DFT-s-OFDM PI/2 BPSK	17.19
N26(814-824)	10M	DFT-s-OFDM PI/2 BPSK	17.14
N26(814-824)	5M	DFT-s-OFDM QPSK	17.13
N26(814-824)	10M	DFT-s-OFDM QPSK	17.13
N26(814-824)	5M	DFT-s-OFDM 16QAM	16.28
N26(814-824)	10M	DFT-s-OFDM 16QAM	16.15
N26(814-824)	5M	DFT-s-OFDM 64QAM	14.89
N26(814-824)	10M	DFT-s-OFDM 64QAM	14.93
N26(814-824)	5M	DFT-s-OFDM 256QAM	12.61
N26(814-824)	5M	DFT-s-OFDM 256QAM	12.58
N26(814-824)	5M	CP-OFDM QPSK	15.79
N26(814-824)	10M	CP-OFDM QPSK	15.57
N26(814-824)	5M	CP-OFDM 16QAM	15.22
N26(814-824)	10M	CP-OFDM 16QAM	15.24
N26(814-824)	5M	CP-OFDM 64QAM	13.89
N26(814-824)	10M	CP-OFDM 64QAM	13.66
N26(814-824)	5M	CP-OFDM 256QAM	10.86
N26(814-824)	10M	CP-OFDM 256QAM	10.82

3. Channel List:

LTE Band 26					
Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink (MHz)	N_{DL}	Frequency of Downlink (MHz)
Low Range	1.4	26697	814.7	8697	859.7
	3	26705	815.5	8705	860.5
	5	26715	816.5	8715	861.5
Mid Range	1.4/3/5/10	26740	819	8740	864
High Range	1.4	26783	823.3	8783	868.3
	3	26775	822.5	8775	867.5
	5	26765	821.5	8765	866.5

5G NR n26						
Bandwidth	Low Channel	Mid Channel	High Channel	Low Frequency	Mid Frequency	High Frequency
5	163300	163800	164300	816.5	819	821.5
10	/	163800	/	/	819	/

4. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	PIFA	N/A	-2.91	LTE Band 26
				-2.91	5G NR n26

Note: The antenna gain is provided by the manufacturer.

3.2 DESCRIPTION OF TEST MODES

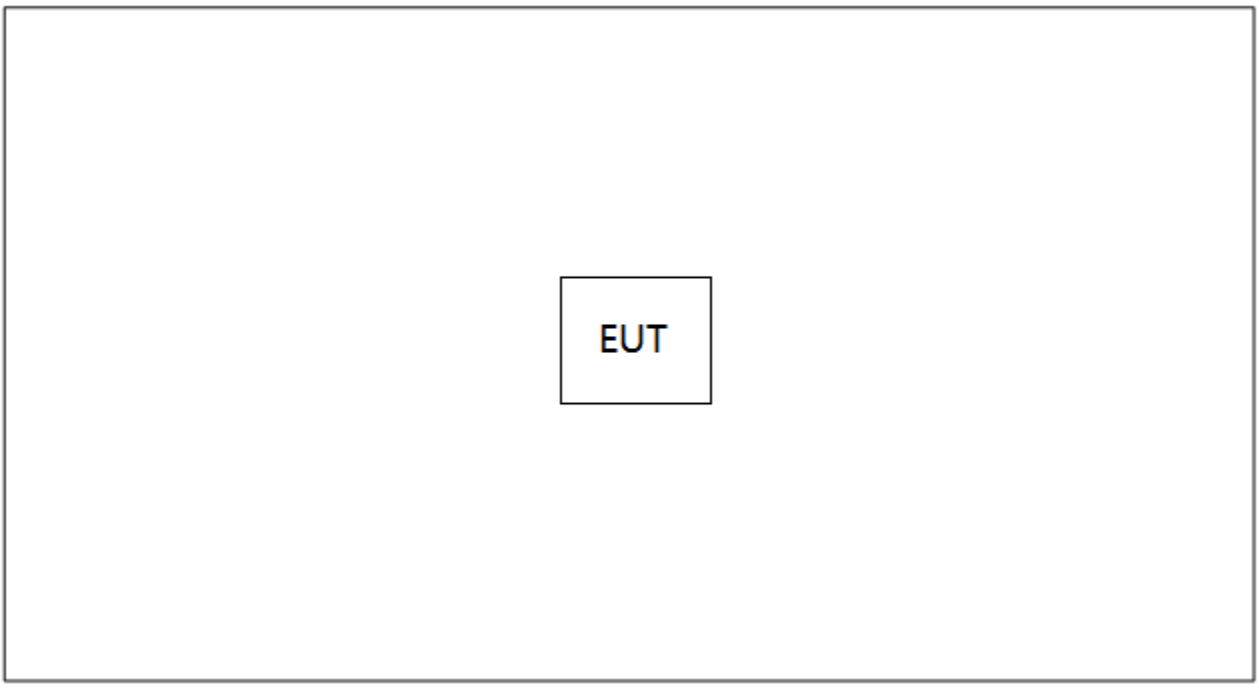
Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 26 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	1RB/3RB/6RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	1RB/8RB/15RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	1RB/12RB/25RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
Occupied Bandwidth	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	15RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	25RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	50RB
Conducted Spurious Emissions	26697 to 26783	26740	1.4MHz	QPSK	1RB
	26705 to 26775	26740	5MHz	QPSK	1RB
	26715 to 26765	26740	10MHz	QPSK	1RB
Radiated Spurious Emissions	26697 to 26783	26740	1.4MHz	QPSK	1RB
	26705 to 26775	26740	5MHz	QPSK	1RB
	26715 to 26765	26740	10MHz	QPSK	1RB
Mask	26697 to 26783	26697, 26783	1.4MHz	QPSK	1RB
					6RB
	26705 to 26775	26705, 26775	3MHz	QPSK	1RB
					15RB
	26715 to 26765	26715, 26765	5MHz	QPSK	1RB
					25RB
	26740	26740	10MHz	QPSK	1RB
					50RB
Peak To Average Ratio	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	1RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	1RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	1RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	26715 to 26765	26740	10MHz	QPSK	50RB

NR n26				
Test Item	Tested Channel	Channel Bandwidth	Modulation	RB allocation
Conducted Output Power and Effective Radiated Power	Low, Mid, High	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM BPSK DFT-s-OFDM QPSK DFT-s-OFDM 16QAM DFT-s-OFDM 64QAM DFT-s-OFDM 256QAM CP-OFDM QPSK CP-OFDM 16QAM CP-OFDM 64QAM CP-OFDM 256QAM	Inner_Full Edge_1RB_Left Edge_1RB_Right Outer_Full
	Mid	10MHz		
Occupied Bandwidth	Mid	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK DFT-s-OFDM 16QAM DFT-s-OFDM 64QAM DFT-s-OFDM 256QAM CP-OFDM QPSK CP-OFDM 16QAM CP-OFDM 64QAM CP-OFDM 256QAM	Outer Full
	Mid	10MHz		
Conducted Spurious Emission	Low, Mid, High	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK	1RB # 0
	Mid	10MHz		
Radiated Spurious Emission	Mid	5MHz	DFT-s-OFDM QPSK	1RB # 0
	Mid	10MHz		
Band Edge	Low, Mid, High	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK	Edge 1RB Left Edge 1RB Right Outer Full
	Mid	10MHz		
Peak To Average Ratio	Low, Mid, High	5MHz	DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK	Edge 1RB Left Outer Full
Frequency Stability	Mid	10MHz	DFT-s-OFDM QPSK	Outer Full

Note:
1) Since the power of DFT-S-OFDM modulation mode is higher than that of CP-OFMD, and the power of PI/2 BPSK and QPSK is greater than that of other modulation modes, we chose DFT-S-OFDM PI/2 BPSK and DFT-S-OFDM QPSK modulation mode to test other items except power and OBW.
2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOFSYSTEMTESTED



2.4 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable stations are limited to 100 watts e.r.p.

4.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.0 or ANSI C63.26-2015 Section 5.2.

ERP:

EIRP= Output Power + Antenan gain
ERP = EIPR - 2.15dBi.

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TESTSETUP LAYOUT

Output Power Measurement

4.1.4 TEST DEVIATION

No deviation.

4.1.5 TEST RESULTS

Please refer to the APPENDIX A.

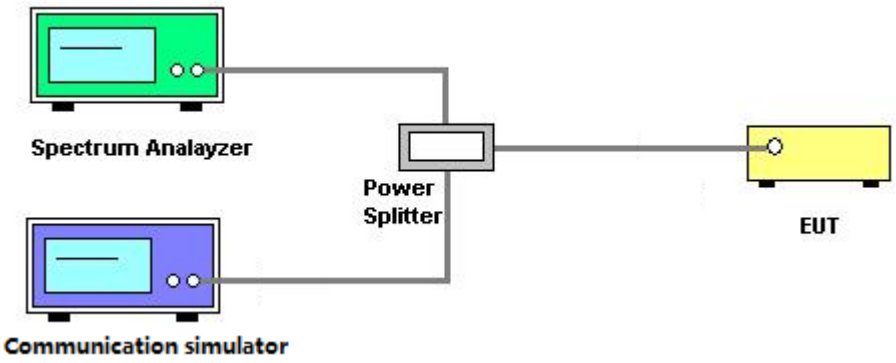
4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.0 or ANSI C63.26-2015 Section 5.4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. RBW=(1% ~ 5%)*EBW
   VBW≥3* RBW
4. Set spectrum analyzer with RMS detector.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.4 TEST RESULTS

Please refer to the APPENDIX B.

4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

4.3.1 LIMIT

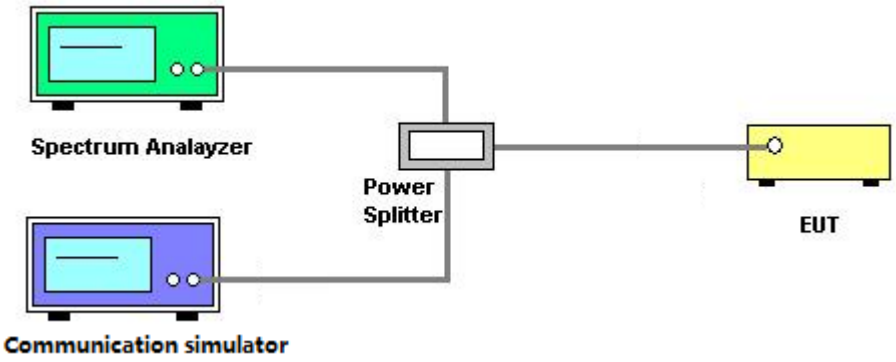
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

4.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.0 or ANSI C63.26-2015 Section 5.7.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak or RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation.

4.3.5 TEST RESULTS

Please refer to the APPENDIX C.

4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.4.1 LIMIT

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

E (dBμV/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.26dBμV/m.

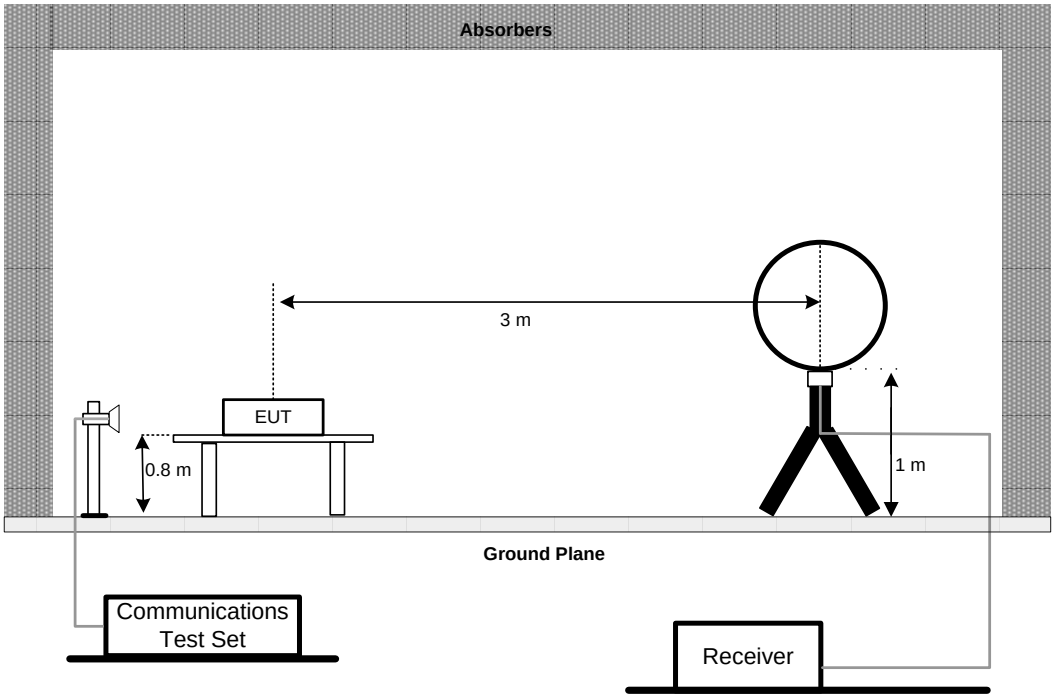
4.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2 or ANSI C63.26-2015 Section 5.5.

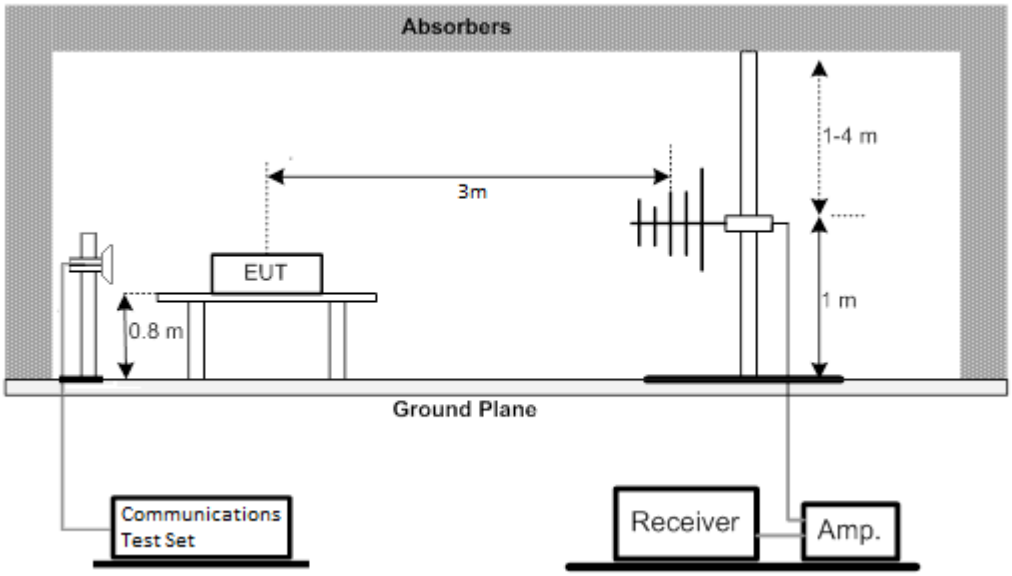
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
4. Start the test, rotate the table 360° to find the worst Angle, maintain the worst Angle, raise the antenna to 1-4m to find the worst height, maintain the worst height, then rotate the table to determine the final worst Angle, grab the spectrum diagram.
5. EUT shall be placed in accordance with X,Y,Z as required by Figure 5 in ANSI C63.26. Repeat Step 5 above to find the worst placement. Test all bands according to the worst placement.
6. Then EIRP is then converted to field strength as follows in Equation
7. E (dBuV/m) = EIRP (dBm) - 20log(D) + 104.8; where D is the measurement distance (in the far field region) in m.The emission limit equal to 82.26dBuV/m or 70.26dBμV/m or 55.26dBμV/m.

4.4.3 TEST SETUP LAYOUT

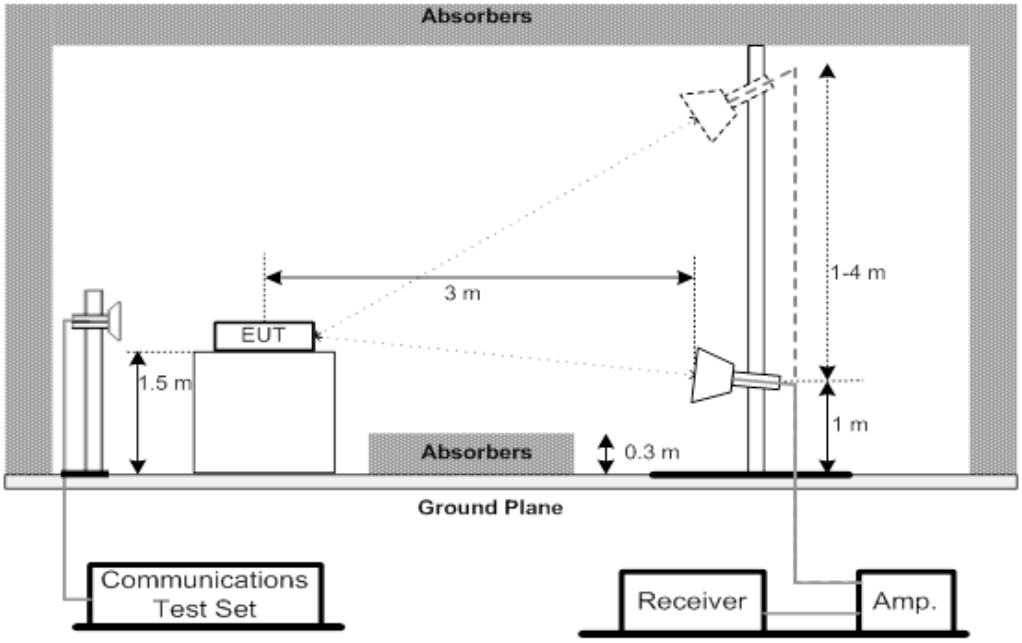
Below 30MHz



30MHz to 1000MHz



Above 1GHz



4.4.4 TESTDEVIATION

No deviation.

4.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

4.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

4.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

4.5 MASK MEASUREMENTS

4.5.1 LIMIT

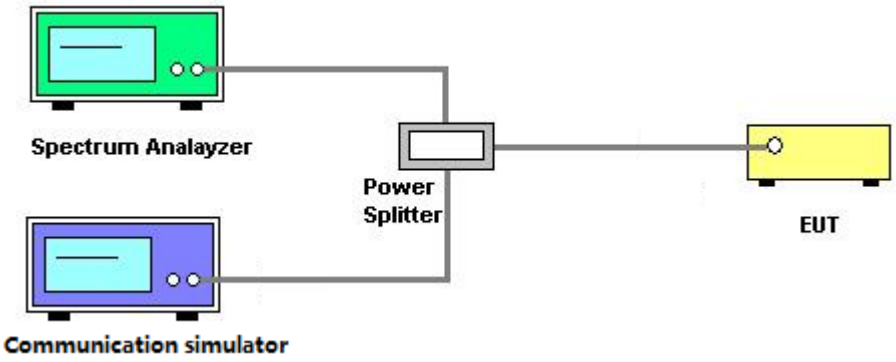
According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) 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. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(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 37.5 kHz.

4.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.0 or ANSI C63.26-2015 Section 5.7.

1. All measurements were done at low and high operational frequency range.
2. Set RBW=1% of 26dBc bandwidth, VBW=3 X RBW, detector=RMS, Sweep time = Auto.
   For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz fr om a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
3. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation.

4.5.5 TEST RESULTS

Please refer to the APPENDIX G.

4.6 PEAK TO AVERAGE RATIO MEASUREMENT

4.6.1 LIMIT

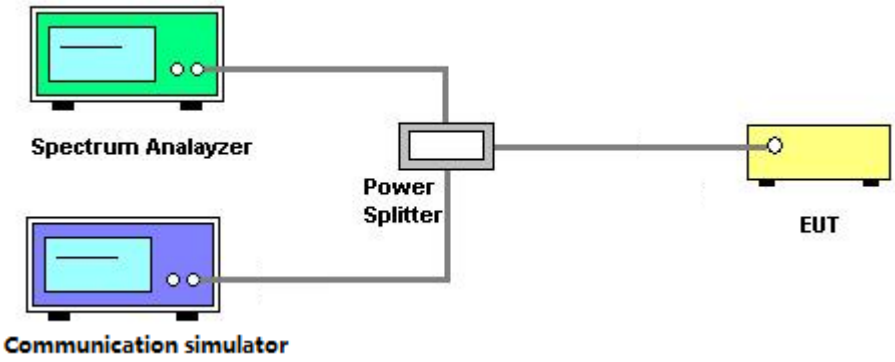
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7 or ANSI C63.26-2015 Section 5.2.6.

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

4.6.3 TEST SETUP LAYOUT



4.6.4 TEST DEVIATION

No deviation.

4.6.5 TEST RESULTS

Please refer to the APPENDIX H.

4.7 FREQUENCY STABILITY MEASUREMENT

4.7.1 LIMIT

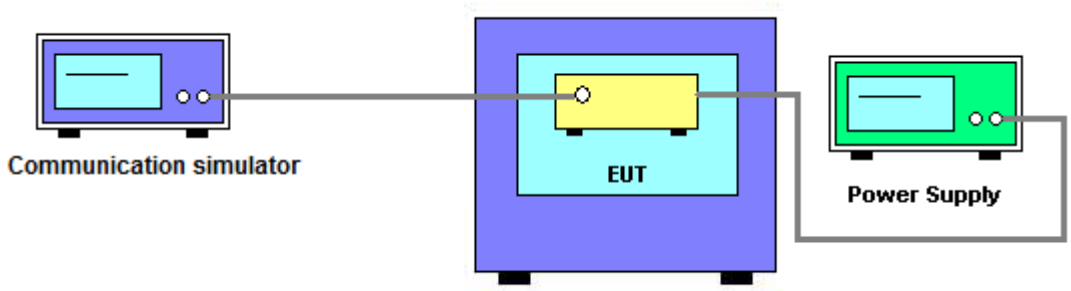
±1.5 ppm is for base and fixed station. ±2.5 ppm is for mobile station.

4.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.0 or ANSI C63.26-2015 Section 5.6.

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

4.7.3 TESTSETUP LAYOUT



4.7.4 TESTDEVIATION

No deviation.

4.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW4950-3.8A-NMSM-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM-8M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025
7	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025
8	5G Wireless Test Platform	Star Point	SP9500	SP9500-20419	Jan. 19, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	587	May 12, 2025
2	Attenuator	SHX	TS2-6-6-A	240124196	May 12, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 06, 2025
7	MXE EMI Receiver	KEYSIGHT	N9038B	MY62210123	Oct. 29, 2025
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Positioning Controller	MF	MF-7802	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
11	966 Chamber room	CM	9*6*6	N/A	May 16, 2025
12	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
13	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025
14	5G Wireless Test Platform	Star Point	SP9500	SP9500-20419	Jan. 19, 2025

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980878	Nov. 25, 2025
3	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMSM-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NMRASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NMRASMRA-0.8M	N/A	Jul. 03, 2025
7	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	Filter	STI	STI15-9912	N/A	May 31, 2025
11	Filter	Wairrwright Instruments Gmbh	WHK 1.5/15G-10ST	N/A	Dec. 06, 2025
12	5G Wireless Test Platform	Star Point	SP9500	SP9500-20419	Jan. 19, 2025
13	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
14	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025

Conducted Measurement For TR06					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wideband Radio Communication Tester	R&S	CWM 500	104462	Jun. 28, 2025
2	Wideband Radio Communication Tester	R&S	CWM 500	165578	Jan. 19, 2025 Jan. 10, 2026
3	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jun. 28, 2025
4	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Oct. 29, 2025
5	Signal Analyzer	R&S	FSV 40	100948	Jun. 28, 2025
6	Temperature Chamber	ESPEC	SU-242	93018786	Jun. 28, 2025
7	OUTPUT DC POWER SUPPLY	NA	IT6332C	803416011767330025	Jan. 19, 2025 Jan. 10, 2026
8	Measurement Software	BTL	BTL-Mobile Test20231204(1246884249)	N/A	N/A

Conducted Measurement For TR05					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Control Interface	Anritsu	ARS200	862200005	N/A
2	Radio Communication Test Station	Anritsu	MT8000A	6261867313	Jan. 19, 2025 Jan. 10, 2026
3	Measurement Software	Anritsu	UCTS (SW Ver:6.24.1227.99)	N/A	N/A

Conducted Measurement For TR01					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	5G Wireless Test Platform	Star Point	SP9500	SP9500-20335	Jan. 29, 2025 Jan. 10, 2026
2	5G Wireless Test Platform	Star Point	SP9500	SP9500-20419	Jan. 19, 2025 Jan. 10, 2026
3	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jun. 28, 2025
4	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Oct. 29, 2025
5	Signal Analyzer	R&S	FSV 40	100948	Jun. 28, 2025
6	Temperature Chamber	ESPEC	SU-242	93018777	Jun. 28, 2025
7	OUTPUT DC POWER SUPPLY	NA	IT6332C	803416011767330025	Jan. 19, 2025 Jan. 10, 2026

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

APPENDIX A - OUTPUT POWER

Output Power (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26697CH	26740CH	26783CH
				814.7MHz	819MHz	823.3MHz
26 / 1.4MHz	QPSK	1	0	22.76	22.70	22.81
		1	2	22.79	22.76	22.81
		1	5	22.74	22.70	22.82
		3	0	22.77	22.72	22.81
		3	1	22.76	22.73	22.80
		3	2	22.76	22.73	22.84
		6	0	21.75	21.70	21.84
	16QAM	1	0	22.10	21.92	21.99
		1	2	22.10	21.94	22.05
		1	5	22.12	21.97	22.00
		3	0	21.90	21.90	21.90
		3	1	21.99	21.87	21.91
		3	2	21.88	21.85	21.95
		6	0	20.84	20.88	20.90
	64QAM	1	0	20.17	20.23	20.18
		1	2	20.22	20.18	20.15
		1	5	20.22	20.27	20.24
		3	0	20.16	20.23	20.32
		3	1	20.21	20.22	20.15
		3	2	20.21	20.26	20.16
		6	0	19.13	19.24	19.24

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26705CH	26740CH	26775CH
				815.5MHz	819MHz	822.5MHz
26 / 3MHz	QPSK	1	0	22.74	22.68	22.78
		1	7	22.79	22.72	22.86
		1	14	22.71	22.66	22.81
		8	0	21.80	21.76	21.76
		8	4	21.84	21.74	21.89
		8	7	21.77	21.74	21.86
		15	0	21.81	21.77	21.86
	16QAM	1	0	22.05	22.10	22.15
		1	7	22.08	22.15	22.19
		1	14	22.00	22.06	22.15
		8	0	20.89	20.87	20.87
		8	4	20.91	20.88	20.96
		8	7	20.87	20.85	20.93
		15	0	20.87	20.83	20.88
	64QAM	1	0	20.22	20.23	20.22
		1	7	20.27	20.25	20.26
		1	14	20.32	20.24	20.24
		8	0	19.13	19.31	19.28
		8	4	19.32	19.30	19.21
		8	7	19.23	19.20	19.13
		15	0	19.23	19.12	19.22

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26715CH	26740CH	26765CH
				816.5MHz	819MHz	821.5MHz
26 / 5MHz	QPSK	1	0	22.78	22.75	22.77
		1	13	22.81	22.74	22.86
		1	24	22.73	22.76	22.82
		12	0	21.80	21.75	21.74
		12	6	21.84	21.81	21.88
		12	11	21.80	21.76	21.86
		25	0	21.79	21.77	21.86
	16QAM	1	0	22.12	22.16	22.15
		1	13	22.10	22.17	22.20
		1	24	21.99	22.18	22.29
		12	0	20.85	20.84	20.83
		12	6	20.82	20.83	20.94
		12	11	20.78	20.82	20.92
		25	0	20.82	20.84	20.88
	64QAM	1	0	20.20	20.26	20.13
		1	13	20.18	20.21	20.14
		1	24	20.25	20.15	20.13
		12	0	19.14	19.20	19.19
		12	6	19.11	19.12	19.12
		12	11	19.09	19.20	19.17
		25	0	19.07	19.13	19.09

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				26740CH
				819MHz
26 / 10MHz	QPSK	1	0	22.80
		1	25	22.74
		1	49	22.82
		25	0	21.81
		25	13	21.86
		25	25	21.82
		50	0	21.83
	16QAM	1	0	22.14
		1	25	22.13
		1	49	22.17
		25	0	20.86
		25	13	20.87
		25	25	20.92
		50	0	20.85
	64QAM	1	0	20.09
		1	25	20.22
		1	49	20.22
		25	0	19.26
		25	13	19.23
		25	25	19.27
		50	0	19.19

ERP (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26697CH	26740CH	26783CH
				814.7MHz	819MHz	823.3MHz
26 / 1.4MHz	QPSK	1	0	17.70	17.64	17.75
		1	2	17.73	17.70	17.75
		1	5	17.68	17.64	17.76
		3	0	17.71	17.66	17.75
		3	1	17.70	17.67	17.74
		3	2	17.70	17.67	17.78
		6	0	16.69	16.64	16.78
	16QAM	1	0	17.04	16.86	16.93
		1	2	17.04	16.88	16.99
		1	5	17.06	16.91	16.94
		3	0	16.84	16.84	16.84
		3	1	16.93	16.81	16.85
		3	2	16.82	16.79	16.89
		6	0	15.78	15.82	15.84
	64QAM	1	0	15.11	15.17	15.12
		1	2	15.16	15.12	15.09
		1	5	15.16	15.21	15.18
		3	0	15.10	15.17	15.26
		3	1	15.15	15.16	15.09
		3	2	15.15	15.20	15.10
		6	0	14.07	14.18	14.18

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26705CH	26740CH	26775CH
				815.5MHz	819MHz	822.5MHz
26 / 3MHz	QPSK	1	0	17.68	17.62	17.72
		1	7	17.73	17.66	17.80
		1	14	17.65	17.60	17.75
		8	0	16.74	16.70	16.70
		8	4	16.78	16.68	16.83
		8	7	16.71	16.68	16.80
		15	0	16.75	16.71	16.80
	16QAM	1	0	16.99	17.04	17.09
		1	7	17.02	17.09	17.13
		1	14	16.94	17.00	17.09
		8	0	15.83	15.81	15.81
		8	4	15.85	15.82	15.90
		8	7	15.81	15.79	15.87
		15	0	15.81	15.77	15.82
	64QAM	1	0	15.16	15.17	15.16
		1	7	15.21	15.19	15.20
		1	14	15.26	15.18	15.18
		8	0	14.07	14.25	14.22
		8	4	14.26	14.24	14.15
		8	7	14.17	14.14	14.07
		15	0	14.17	14.06	14.16

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26715CH	26740CH	26765CH
				816.5MHz	819MHz	821.5MHz
26 / 5MHz	QPSK	1	0	17.72	17.69	17.71
		1	13	17.75	17.68	17.80
		1	24	17.67	17.70	17.76
		12	0	16.74	16.69	16.68
		12	6	16.78	16.75	16.82
		12	11	16.74	16.70	16.80
		25	0	16.73	16.71	16.80
	16QAM	1	0	17.06	17.10	17.09
		1	13	17.04	17.11	17.14
		1	24	16.93	17.12	17.23
		12	0	15.79	15.78	15.77
		12	6	15.76	15.77	15.88
		12	11	15.72	15.76	15.86
		25	0	15.76	15.78	15.82
	64QAM	1	0	15.14	15.20	15.07
		1	13	15.12	15.15	15.08
		1	24	15.19	15.09	15.07
		12	0	14.08	14.14	14.13
		12	6	14.05	14.06	14.06
		12	11	14.03	14.14	14.11
		25	0	14.01	14.07	14.03

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				26740CH
				819MHz
26 / 10MHz	QPSK	1	0	17.74
		1	25	17.68
		1	49	17.76
		25	0	16.75
		25	13	16.80
		25	25	16.76
		50	0	16.77
	16QAM	1	0	17.08
		1	25	17.07
		1	49	17.11
		25	0	15.80
		25	13	15.81
		25	25	15.86
		50	0	15.79
	64QAM	1	0	15.03
		1	25	15.16
		1	49	15.16
		25	0	14.20
		25	13	14.17
		25	25	14.21
		50	0	14.13

For 5G NR n26

Band	Channel	Test Item	Measured Value	ERP
n26	172300	RF power output:n26_5MHz_15kHz_172300;5;DFT-s-OFDM PI/2 BPSK^Inner_Full:PC3	22.25	17.19
n26	172300	RF power output:n26_5MHz_15kHz_172300;6;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Left:PC3	21.76	16.7
n26	172300	RF power output:n26_5MHz_15kHz_172300;7;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Right:PC3	21.69	16.63
n26	172300	RF power output:n26_5MHz_15kHz_172300;8;DFT-s-OFDM PI/2 BPSK^Outer_Full:PC3	21.77	16.71
n26	172300	RF power output:n26_5MHz_15kHz_172300;9;DFT-s-OFDM QPSK^Inner_Full:PC3	22.18	17.12
n26	172300	RF power output:n26_5MHz_15kHz_172300;10;DFT-s-OFDM QPSK^Edge_1RB_Left:PC3	21.27	16.21
n26	172300	RF power output:n26_5MHz_15kHz_172300;11;DFT-s-OFDM QPSK^Edge_1RB_Right:PC3	21.14	16.08
n26	172300	RF power output:n26_5MHz_15kHz_172300;12;DFT-s-OFDM QPSK^Outer_Full:PC3	21.3	16.24
n26	172300	RF power output:n26_5MHz_15kHz_172300;13;DFT-s-OFDM 16QAM^Inner_Full:PC3	21.34	16.28
n26	172300	RF power output:n26_5MHz_15kHz_172300;14;DFT-s-OFDM 16QAM^Edge_1RB_Left:PC3	20.31	15.25
n26	172300	RF power output:n26_5MHz_15kHz_172300;15;DFT-s-OFDM 16QAM^Edge_1RB_Right:PC3	20.2	15.14
n26	172300	RF power output:n26_5MHz_15kHz_172300;16;DFT-s-OFDM 16QAM^Outer_Full:PC3	20.34	15.28
n26	172300	RF power output:n26_5MHz_15kHz_172300;17;DFT-s-OFDM 64QAM^Edge_1RB_Left:PC3	19.9	14.84
n26	172300	RF power output:n26_5MHz_15kHz_172300;18;DFT-s-OFDM 64QAM^Edge_1RB_Right:PC3	19.87	14.81
n26	172300	RF power output:n26_5MHz_15kHz_172300;19;DFT-s-OFDM 64QAM^Outer_Full:PC3	19.76	14.7
n26	172300	RF power output:n26_5MHz_15kHz_172300;20;DFT-s-OFDM 256QAM^Edge_1RB_Left:PC3	17.27	12.21
n26	172300	RF power output:n26_5MHz_15kHz_172300;21;DFT-s-OFDM 256QAM^Edge_1RB_Right:PC3	17.2	12.14
n26	172300	RF power output:n26_5MHz_15kHz_172300;22;DFT-s-OFDM 256QAM^Outer_Full:PC3	17.67	12.61
n26	172300	RF power output:n26_5MHz_15kHz_172300;23;CP-OFDM QPSK^Inner_Full:PC3	20.59	15.53
n26	172300	RF power output:n26_5MHz_15kHz_172300;24;CP-OFDM QPSK^Edge_1RB_Left:PC3	19.3	14.24
n26	172300	RF power output:n26_5MHz_15kHz_172300;25;CP-OFDM QPSK^Edge_1RB_Right:PC3	19.22	14.16
n26	172300	RF power output:n26_5MHz_15kHz_172300;26;CP-OFDM QPSK^Outer_Full:PC3	19.25	14.19
n26	172300	RF power output:n26_5MHz_15kHz_172300;27;CP-OFDM 16QAM^Inner_Full:PC3	20.28	15.22
n26	172300	RF power output:n26_5MHz_15kHz_172300;28;CP-OFDM 16QAM^Edge_1RB_Left:PC3	19.29	14.23
n26	172300	RF power output:n26_5MHz_15kHz_172300;29;CP-OFDM 16QAM^Edge_1RB_Right:PC3	19.34	14.28
n26	172300	RF power output:n26_5MHz_15kHz_172300;30;CP-OFDM 16QAM^Outer_Full:PC3	19.34	14.28
n26	172300	RF power output:n26_5MHz_15kHz_172300;31;CP-OFDM 64QAM^Edge_1RB_Left:PC3	18.73	13.67
n26	172300	RF power output:n26_5MHz_15kHz_172300;32;CP-OFDM 64QAM^Edge_1RB_Right:PC3	18.61	13.55
n26	172300	RF power output:n26_5MHz_15kHz_172300;33;CP-OFDM 64QAM^Outer_Full:PC3	18.95	13.89
n26	172300	RF power output:n26_5MHz_15kHz_172300;34;CP-OFDM 256QAM^Edge_1RB_Left:PC3	15.92	10.86
n26	172300	RF power output:n26_5MHz_15kHz_172300;35;CP-OFDM 256QAM^Edge_1RB_Right:PC3	15.87	10.81
n26	172300	RF power output:n26_5MHz_15kHz_172300;36;CP-OFDM 256QAM^Outer_Full:PC3	15.78	10.72

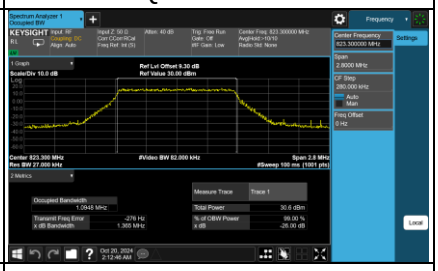
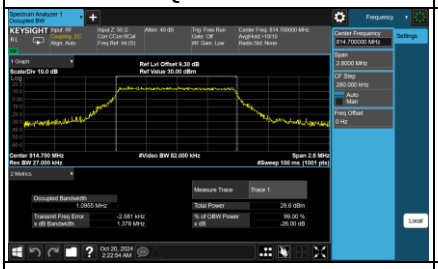
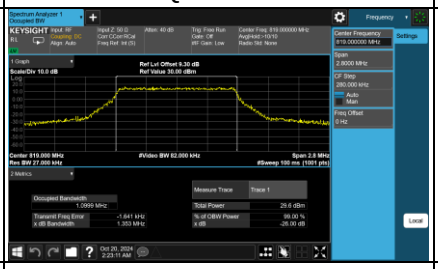
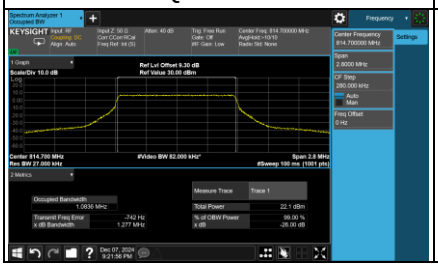
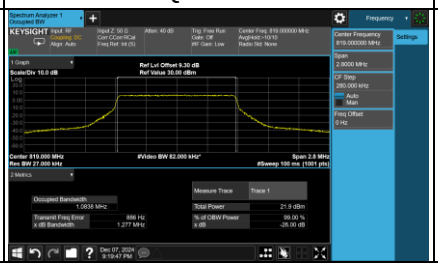
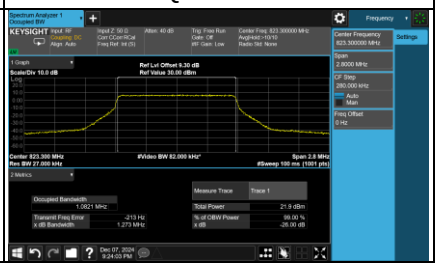
Band	Channel	Test Item	Measured Value	ERP
n26	172800	RF power output:n26_5MHz_15kHz_172800;5;DFT-s-OFDM PI/2 BPSK^Inner_Full:PC3	22.2	17.14
n26	172800	RF power output:n26_5MHz_15kHz_172800;6;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Left:PC3	21.74	16.68
n26	172800	RF power output:n26_5MHz_15kHz_172800;7;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Right:PC3	21.69	16.63
n26	172800	RF power output:n26_5MHz_15kHz_172800;8;DFT-s-OFDM PI/2 BPSK^Outer_Full:PC3	21.67	16.61
n26	172800	RF power output:n26_5MHz_15kHz_172800;9;DFT-s-OFDM QPSK^Inner_Full:PC3	22.17	17.11
n26	172800	RF power output:n26_5MHz_15kHz_172800;10;DFT-s-OFDM QPSK^Edge_1RB_Left:PC3	21.22	16.16
n26	172800	RF power output:n26_5MHz_15kHz_172800;11;DFT-s-OFDM QPSK^Edge_1RB_Right:PC3	21.18	16.12
n26	172800	RF power output:n26_5MHz_15kHz_172800;12;DFT-s-OFDM QPSK^Outer_Full:PC3	21.16	16.1
n26	172800	RF power output:n26_5MHz_15kHz_172800;13;DFT-s-OFDM 16QAM^Inner_Full:PC3	21.3	16.24
n26	172800	RF power output:n26_5MHz_15kHz_172800;14;DFT-s-OFDM 16QAM^Edge_1RB_Left:PC3	20.28	15.22
n26	172800	RF power output:n26_5MHz_15kHz_172800;15;DFT-s-OFDM 16QAM^Edge_1RB_Right:PC3	20.15	15.09
n26	172800	RF power output:n26_5MHz_15kHz_172800;16;DFT-s-OFDM 16QAM^Outer_Full:PC3	20.3	15.24
n26	172800	RF power output:n26_5MHz_15kHz_172800;17;DFT-s-OFDM 64QAM^Edge_1RB_Left:PC3	19.95	14.89
n26	172800	RF power output:n26_5MHz_15kHz_172800;18;DFT-s-OFDM 64QAM^Edge_1RB_Right:PC3	19.87	14.81
n26	172800	RF power output:n26_5MHz_15kHz_172800;19;DFT-s-OFDM 64QAM^Outer_Full:PC3	19.75	14.69
n26	172800	RF power output:n26_5MHz_15kHz_172800;20;DFT-s-OFDM 256QAM^Edge_1RB_Left:PC3	17.22	12.16
n26	172800	RF power output:n26_5MHz_15kHz_172800;21;DFT-s-OFDM 256QAM^Edge_1RB_Right:PC3	17.1	12.04
n26	172800	RF power output:n26_5MHz_15kHz_172800;22;DFT-s-OFDM 256QAM^Outer_Full:PC3	17.57	12.51
n26	172800	RF power output:n26_5MHz_15kHz_172800;23;CP-OFDM QPSK^Inner_Full:PC3	20.85	15.79
n26	172800	RF power output:n26_5MHz_15kHz_172800;24;CP-OFDM QPSK^Edge_1RB_Left:PC3	19.32	14.26
n26	172800	RF power output:n26_5MHz_15kHz_172800;25;CP-OFDM QPSK^Edge_1RB_Right:PC3	19.23	14.17
n26	172800	RF power output:n26_5MHz_15kHz_172800;26;CP-OFDM QPSK^Outer_Full:PC3	19.18	14.12
n26	172800	RF power output:n26_5MHz_15kHz_172800;27;CP-OFDM 16QAM^Inner_Full:PC3	20.21	15.15
n26	172800	RF power output:n26_5MHz_15kHz_172800;28;CP-OFDM 16QAM^Edge_1RB_Left:PC3	19.43	14.37
n26	172800	RF power output:n26_5MHz_15kHz_172800;29;CP-OFDM 16QAM^Edge_1RB_Right:PC3	19.32	14.26
n26	172800	RF power output:n26_5MHz_15kHz_172800;30;CP-OFDM 16QAM^Outer_Full:PC3	19.17	14.11
n26	172800	RF power output:n26_5MHz_15kHz_172800;31;CP-OFDM 64QAM^Edge_1RB_Left:PC3	18.69	13.63
n26	172800	RF power output:n26_5MHz_15kHz_172800;32;CP-OFDM 64QAM^Edge_1RB_Right:PC3	18.7	13.64
n26	172800	RF power output:n26_5MHz_15kHz_172800;33;CP-OFDM 64QAM^Outer_Full:PC3	18.77	13.71
n26	172800	RF power output:n26_5MHz_15kHz_172800;34;CP-OFDM 256QAM^Edge_1RB_Left:PC3	15.91	10.85
n26	172800	RF power output:n26_5MHz_15kHz_172800;35;CP-OFDM 256QAM^Edge_1RB_Right:PC3	15.82	10.76
n26	172800	RF power output:n26_5MHz_15kHz_172800;36;CP-OFDM 256QAM^Outer_Full:PC3	15.69	10.63

Band	Channel	Test Item	Measured Value	ERP
n26	173300	RF power output:n26_5MHz_15kHz_173300;5;DFT-s-OFDM PI/2 BPSK^Inner_Full:PC3	22.13	17.07
n26	173300	RF power output:n26_5MHz_15kHz_173300;6;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Left:PC3	21.74	16.68
n26	173300	RF power output:n26_5MHz_15kHz_173300;7;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Right:PC3	21.64	16.58
n26	173300	RF power output:n26_5MHz_15kHz_173300;8;DFT-s-OFDM PI/2 BPSK^Outer_Full:PC3	21.77	16.71
n26	173300	RF power output:n26_5MHz_15kHz_173300;9;DFT-s-OFDM QPSK^Inner_Full:PC3	22.19	17.13
n26	173300	RF power output:n26_5MHz_15kHz_173300;10;DFT-s-OFDM QPSK^Edge_1RB_Left:PC3	21.2	16.14
n26	173300	RF power output:n26_5MHz_15kHz_173300;11;DFT-s-OFDM QPSK^Edge_1RB_Right:PC3	21.22	16.16
n26	173300	RF power output:n26_5MHz_15kHz_173300;12;DFT-s-OFDM QPSK^Outer_Full:PC3	21.13	16.07
n26	173300	RF power output:n26_5MHz_15kHz_173300;13;DFT-s-OFDM 16QAM^Inner_Full:PC3	21.25	16.19
n26	173300	RF power output:n26_5MHz_15kHz_173300;14;DFT-s-OFDM 16QAM^Edge_1RB_Left:PC3	20.15	15.09
n26	173300	RF power output:n26_5MHz_15kHz_173300;15;DFT-s-OFDM 16QAM^Edge_1RB_Right:PC3	20.18	15.12
n26	173300	RF power output:n26_5MHz_15kHz_173300;16;DFT-s-OFDM 16QAM^Outer_Full:PC3	20.28	15.22
n26	173300	RF power output:n26_5MHz_15kHz_173300;17;DFT-s-OFDM 64QAM^Edge_1RB_Left:PC3	19.86	14.8
n26	173300	RF power output:n26_5MHz_15kHz_173300;18;DFT-s-OFDM 64QAM^Edge_1RB_Right:PC3	19.88	14.82
n26	173300	RF power output:n26_5MHz_15kHz_173300;19;DFT-s-OFDM 64QAM^Outer_Full:PC3	19.72	14.66
n26	173300	RF power output:n26_5MHz_15kHz_173300;20;DFT-s-OFDM 256QAM^Edge_1RB_Left:PC3	17.25	12.19
n26	173300	RF power output:n26_5MHz_15kHz_173300;21;DFT-s-OFDM 256QAM^Edge_1RB_Right:PC3	17.13	12.07
n26	173300	RF power output:n26_5MHz_15kHz_173300;22;DFT-s-OFDM 256QAM^Outer_Full:PC3	17.57	12.51
n26	173300	RF power output:n26_5MHz_15kHz_173300;23;CP-OFDM QPSK^Inner_Full:PC3	20.77	15.71
n26	173300	RF power output:n26_5MHz_15kHz_173300;24;CP-OFDM QPSK^Edge_1RB_Left:PC3	19.19	14.13
n26	173300	RF power output:n26_5MHz_15kHz_173300;25;CP-OFDM QPSK^Edge_1RB_Right:PC3	19.21	14.15
n26	173300	RF power output:n26_5MHz_15kHz_173300;26;CP-OFDM QPSK^Outer_Full:PC3	19.25	14.19
n26	173300	RF power output:n26_5MHz_15kHz_173300;27;CP-OFDM 16QAM^Inner_Full:PC3	20.28	15.22
n26	173300	RF power output:n26_5MHz_15kHz_173300;28;CP-OFDM 16QAM^Edge_1RB_Left:PC3	19.38	14.32
n26	173300	RF power output:n26_5MHz_15kHz_173300;29;CP-OFDM 16QAM^Edge_1RB_Right:PC3	19.31	14.25
n26	173300	RF power output:n26_5MHz_15kHz_173300;30;CP-OFDM 16QAM^Outer_Full:PC3	19.15	14.09
n26	173300	RF power output:n26_5MHz_15kHz_173300;31;CP-OFDM 64QAM^Edge_1RB_Left:PC3	18.66	13.6
n26	173300	RF power output:n26_5MHz_15kHz_173300;32;CP-OFDM 64QAM^Edge_1RB_Right:PC3	18.71	13.65
n26	173300	RF power output:n26_5MHz_15kHz_173300;33;CP-OFDM 64QAM^Outer_Full:PC3	18.78	13.72
n26	173300	RF power output:n26_5MHz_15kHz_173300;34;CP-OFDM 256QAM^Edge_1RB_Left:PC3	15.9	10.84
n26	173300	RF power output:n26_5MHz_15kHz_173300;35;CP-OFDM 256QAM^Edge_1RB_Right:PC3	15.76	10.7
n26	173300	RF power output:n26_5MHz_15kHz_173300;36;CP-OFDM 256QAM^Outer_Full:PC3	15.67	10.61

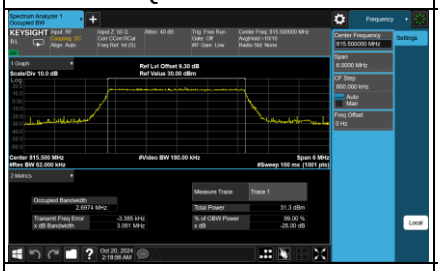
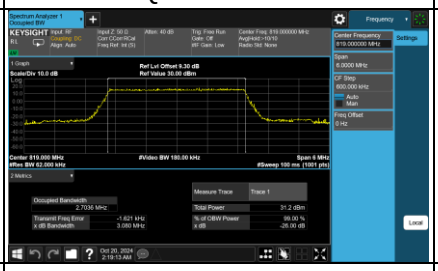
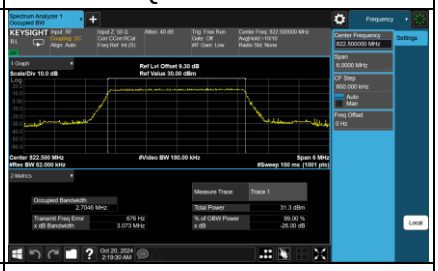
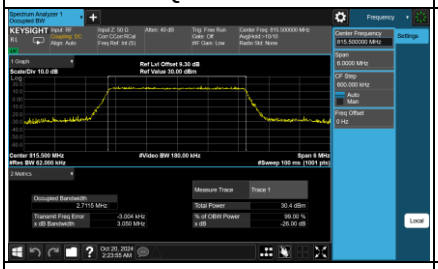
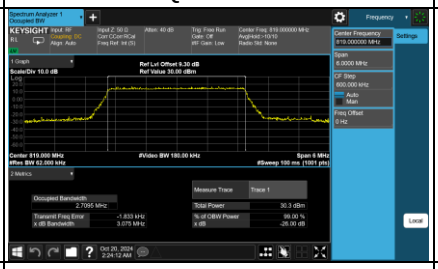
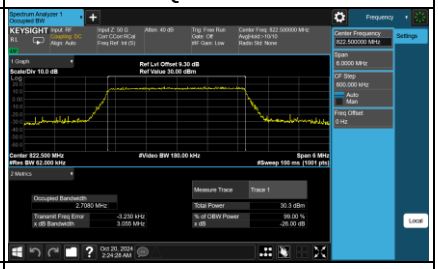
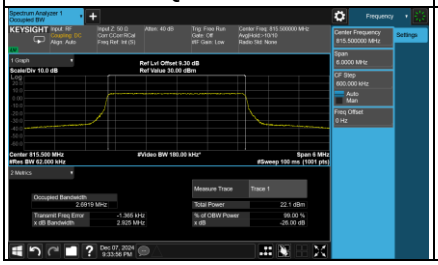
Band	Channel	Test Item	Measured Value	ERP
n26	172800	RF power output:n26_10MHz_15kHz_172800;5;DFT-s-OFDM PI/2 BPSK^Inner_Full:PC3	22.2	17.14
n26	172800	RF power output:n26_10MHz_15kHz_172800;6;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Left:PC3	21.74	16.68
n26	172800	RF power output:n26_10MHz_15kHz_172800;7;DFT-s-OFDM PI/2 BPSK^Edge_1RB_Right:PC3	21.69	16.63
n26	172800	RF power output:n26_10MHz_15kHz_172800;8;DFT-s-OFDM PI/2 BPSK^Outer_Full:PC3	21.63	16.57
n26	172800	RF power output:n26_10MHz_15kHz_172800;9;DFT-s-OFDM QPSK^Inner_Full:PC3	22.19	17.13
n26	172800	RF power output:n26_10MHz_15kHz_172800;10;DFT-s-OFDM QPSK^Edge_1RB_Left:PC3	21.26	16.2
n26	172800	RF power output:n26_10MHz_15kHz_172800;11;DFT-s-OFDM QPSK^Edge_1RB_Right:PC3	21.22	16.16
n26	172800	RF power output:n26_10MHz_15kHz_172800;12;DFT-s-OFDM QPSK^Outer_Full:PC3	21.19	16.13
n26	172800	RF power output:n26_10MHz_15kHz_172800;13;DFT-s-OFDM 16QAM^Inner_Full:PC3	21.21	16.15
n26	172800	RF power output:n26_10MHz_15kHz_172800;14;DFT-s-OFDM 16QAM^Edge_1RB_Left:PC3	20.32	15.26
n26	172800	RF power output:n26_10MHz_15kHz_172800;15;DFT-s-OFDM 16QAM^Edge_1RB_Right:PC3	20.19	15.13
n26	172800	RF power output:n26_10MHz_15kHz_172800;16;DFT-s-OFDM 16QAM^Outer_Full:PC3	20.19	15.13
n26	172800	RF power output:n26_10MHz_15kHz_172800;17;DFT-s-OFDM 64QAM^Edge_1RB_Left:PC3	19.99	14.93
n26	172800	RF power output:n26_10MHz_15kHz_172800;18;DFT-s-OFDM 64QAM^Edge_1RB_Right:PC3	19.88	14.82
n26	172800	RF power output:n26_10MHz_15kHz_172800;19;DFT-s-OFDM 64QAM^Outer_Full:PC3	19.72	14.66
n26	172800	RF power output:n26_10MHz_15kHz_172800;20;DFT-s-OFDM 256QAM^Edge_1RB_Left:PC3	17.23	12.17
n26	172800	RF power output:n26_10MHz_15kHz_172800;21;DFT-s-OFDM 256QAM^Edge_1RB_Right:PC3	17.16	12.1
n26	172800	RF power output:n26_10MHz_15kHz_172800;22;DFT-s-OFDM 256QAM^Outer_Full:PC3	17.64	12.58
n26	172800	RF power output:n26_10MHz_15kHz_172800;23;CP-OFDM QPSK^Inner_Full:PC3	20.63	15.57
n26	172800	RF power output:n26_10MHz_15kHz_172800;24;CP-OFDM QPSK^Edge_1RB_Left:PC3	19.32	14.26
n26	172800	RF power output:n26_10MHz_15kHz_172800;25;CP-OFDM QPSK^Edge_1RB_Right:PC3	19.46	14.4
n26	172800	RF power output:n26_10MHz_15kHz_172800;26;CP-OFDM QPSK^Outer_Full:PC3	19.15	14.09
n26	172800	RF power output:n26_10MHz_15kHz_172800;27;CP-OFDM 16QAM^Inner_Full:PC3	20.3	15.24
n26	172800	RF power output:n26_10MHz_15kHz_172800;28;CP-OFDM 16QAM^Edge_1RB_Left:PC3	19.45	14.39
n26	172800	RF power output:n26_10MHz_15kHz_172800;29;CP-OFDM 16QAM^Edge_1RB_Right:PC3	19.45	14.39
n26	172800	RF power output:n26_10MHz_15kHz_172800;30;CP-OFDM 16QAM^Outer_Full:PC3	19.17	14.11
n26	172800	RF power output:n26_10MHz_15kHz_172800;31;CP-OFDM 64QAM^Edge_1RB_Left:PC3	18.72	13.66
n26	172800	RF power output:n26_10MHz_15kHz_172800;32;CP-OFDM 64QAM^Edge_1RB_Right:PC3	18.71	13.65
n26	172800	RF power output:n26_10MHz_15kHz_172800;33;CP-OFDM 64QAM^Outer_Full:PC3	18.7	13.64
n26	172800	RF power output:n26_10MHz_15kHz_172800;34;CP-OFDM 256QAM^Edge_1RB_Left:PC3	15.88	10.82
n26	172800	RF power output:n26_10MHz_15kHz_172800;35;CP-OFDM 256QAM^Edge_1RB_Right:PC3	15.88	10.82
n26	172800	RF power output:n26_10MHz_15kHz_172800;36;CP-OFDM 256QAM^Outer_Full:PC3	15.7	10.64

APPENDIX B - OCCUPIED BANDWIDTH

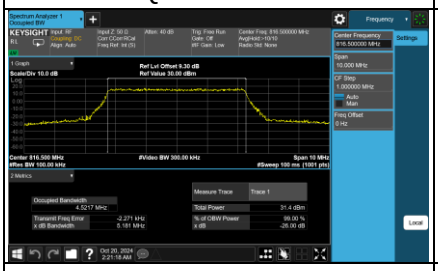
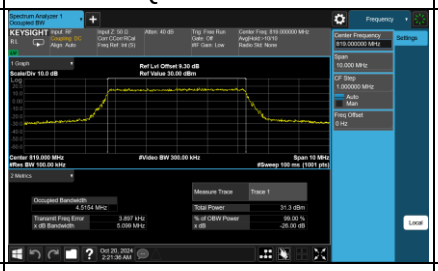
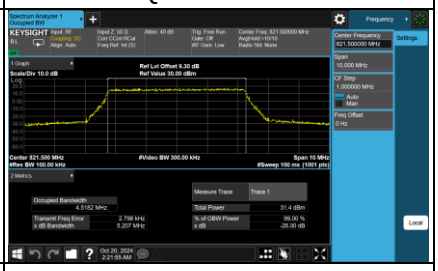
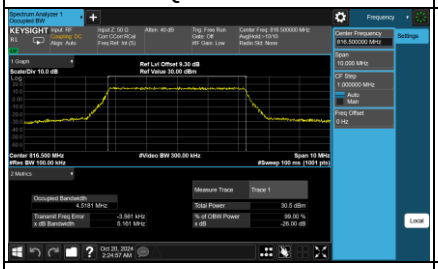
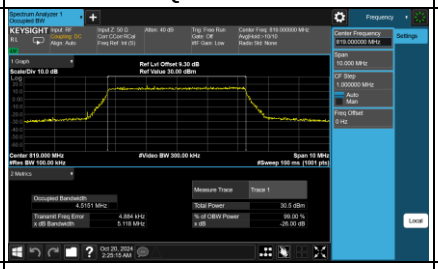
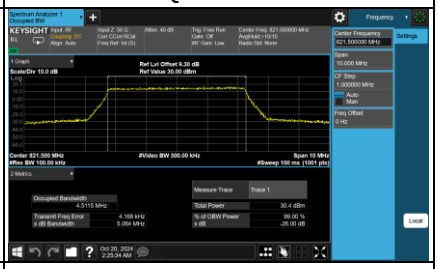
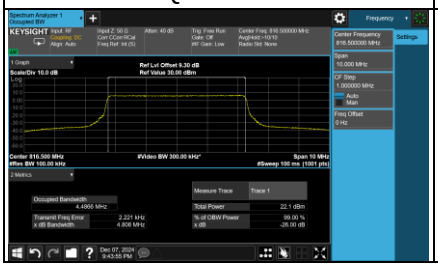
LTE Band 26_1.4MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26697	814.7	1.0952	1.0955	1.0836	1.310	1.378	1.277
26740	819	1.0930	1.0999	1.0838	1.342	1.353	1.277
26783	823.3	1.0948	1.0995	1.0821	1.365	1.338	1.273

Spectrum Plot		
QPSK-26697	QPSK-26740	QPSK-26783
		
16QAM-26697	16QAM-26740	16QAM-26783
		
64QAM-26697	64QAM-26740	64QAM-26783
		

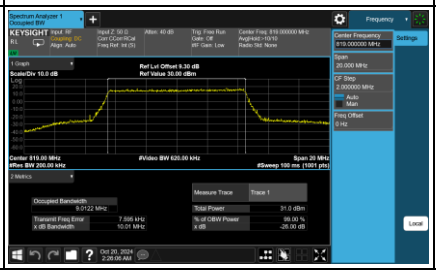
LTE Band 26_3MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26705	815.5	2.6974	2.7115	2.6919	3.061	3.050	2.925
26740	819	2.7036	2.7095	2.6910	3.080	3.075	2.922
26775	822.5	2.7046	2.7080	2.6904	3.073	3.055	2.899

Spectrum Plot		
QPSK-26705	QPSK-26740	QPSK-26775
		
16QAM-26705	16QAM-26740	16QAM-26775
		
64QAM-26705	64QAM-26740	64QAM-26775
		

LTE Band 26_5MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26715	816.5	4.5217	4.5181	4.4866	5.181	5.161	4.808
26740	819	4.5154	4.5151	4.4852	5.099	5.118	4.804
26765	821.5	4.5182	4.5115	4.4846	5.207	5.064	4.787

Spectrum Plot		
QPSK-26715	QPSK-26740	QPSK-26765
		
16QAM-26715	16QAM-26740	16QAM-26765
		
64QAM-26715	64QAM-26740	64QAM-26765
		

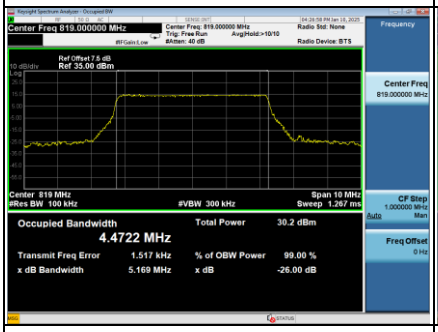
LTE Band 26_10MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26740	819	9.0056	9.0122	8.9632	10.09	10.01	9.500

Spectrum Plot		
QPSK-26740	16QAM-26740	64QAM-26740
		

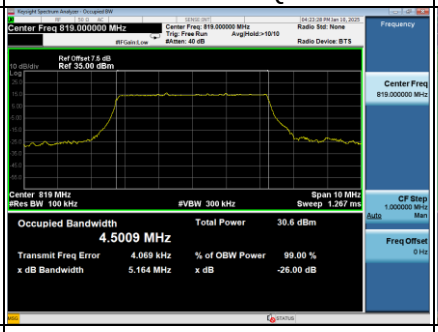
NR n26_Mid CH_5MHz		
Modulation	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
DFT-s-OFDM PI/2 BPSK	4.4722	5.169
DFT-s-OFDM QPSK	4.5009	5.164
DFT-s-OFDM 16QAM	4.4766	5.156
DFT-s-OFDM 64QAM	4.4980	5.208
DFT-s-OFDM 256QAM	4.4839	5.166
CP-OFDM QPSK	4.5205	5.240
CP-OFDM 16QAM	4.5033	5.101
CP-OFDM 64QAM	4.4881	5.165
CP-OFDM 256QAM	4.4866	5.161

Spectrum Plot

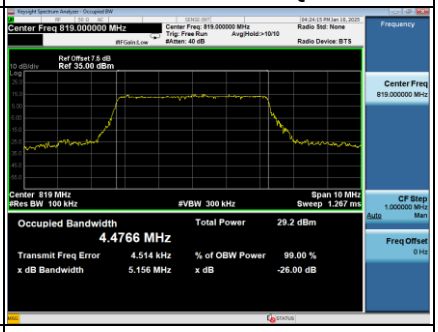
DFT-s-OFDM PI/2 BPSK



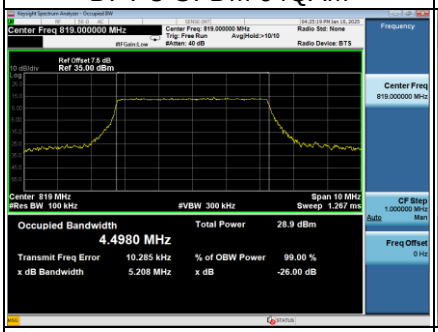
DFT-s-OFDM QPSK



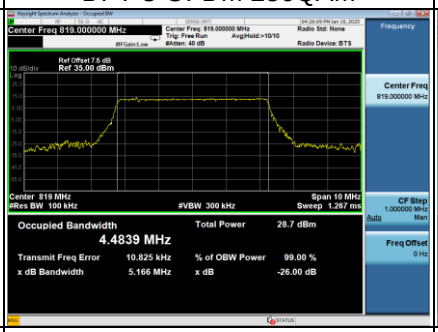
DFT-s-OFDM 16QAM



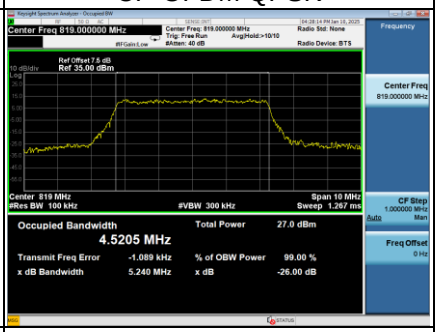
DFT-s-OFDM 64QAM



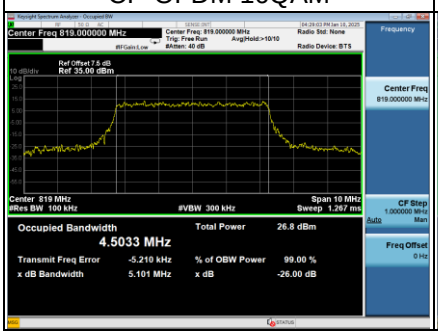
DFT-s-OFDM 256QAM



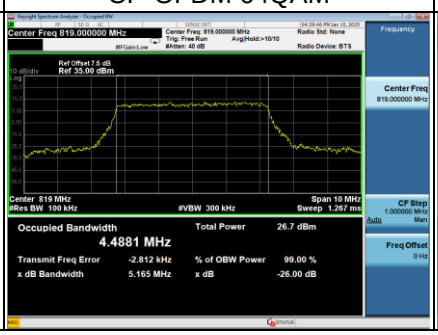
CP-OFDM QPSK



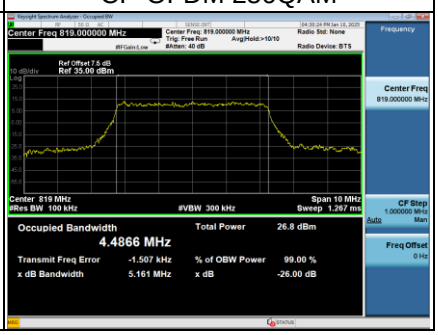
CP-OFDM 16QAM



CP-OFDM 64QAM



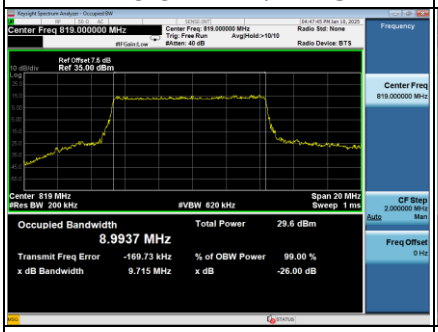
CP-OFDM 256QAM



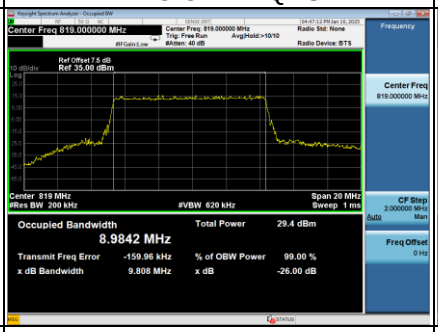
NR n26_Mid CH_10MHz		
Modulation	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
DFT-s-OFDM PI/2 BPSK	8.9937	9.715
DFT-s-OFDM QPSK	8.9842	9.808
DFT-s-OFDM 16QAM	9.0073	9.749
DFT-s-OFDM 64QAM	8.9982	9.668
DFT-s-OFDM 256QAM	8.9887	9.776
CP-OFDM QPSK	9.3044	10.05
CP-OFDM 16QAM	9.3210	10.09
CP-OFDM 64QAM	9.3335	10.22
CP-OFDM 256QAM	9.3452	10.05

Spectrum Plot

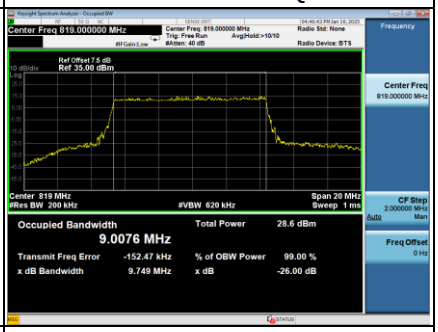
DFT-s-OFDM PI/2 BPSK



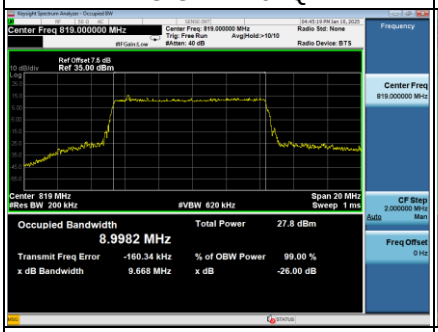
DFT-s-OFDM QPSK



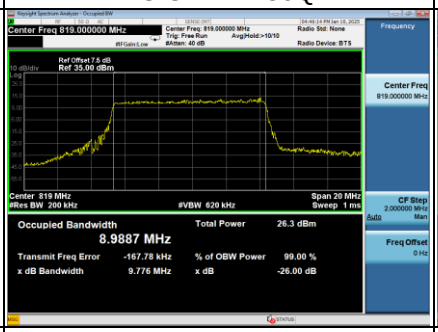
DFT-s-OFDM 16QAM



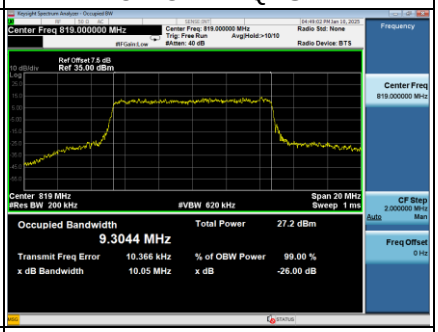
DFT-s-OFDM 64QAM



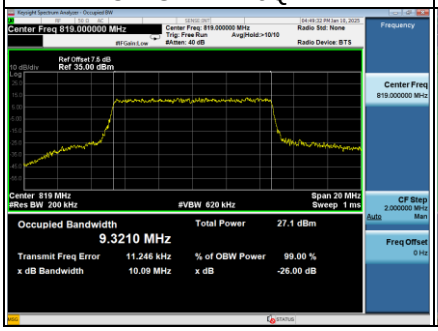
DFT-s-OFDM 256QAM



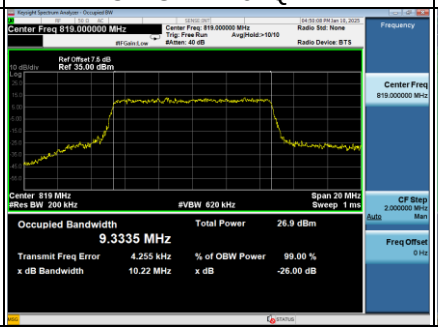
CP-OFDM QPSK



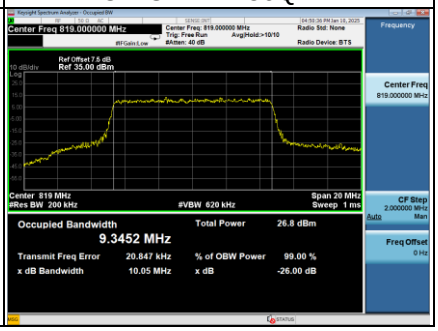
CP-OFDM 16QAM



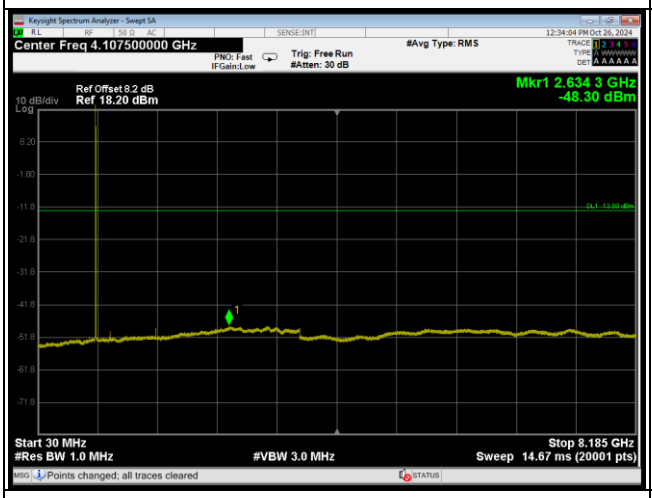
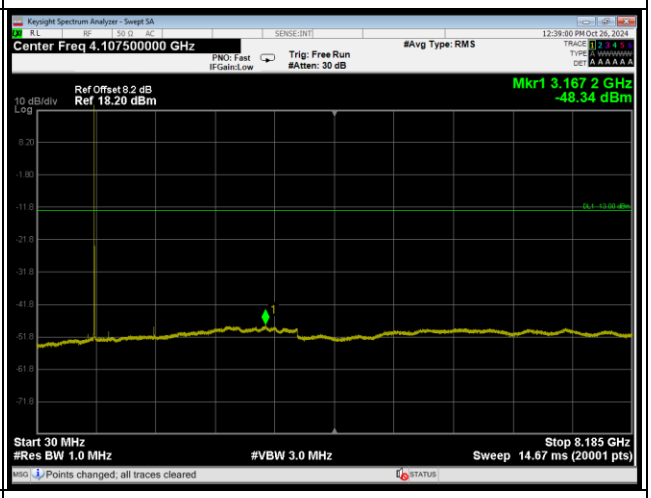
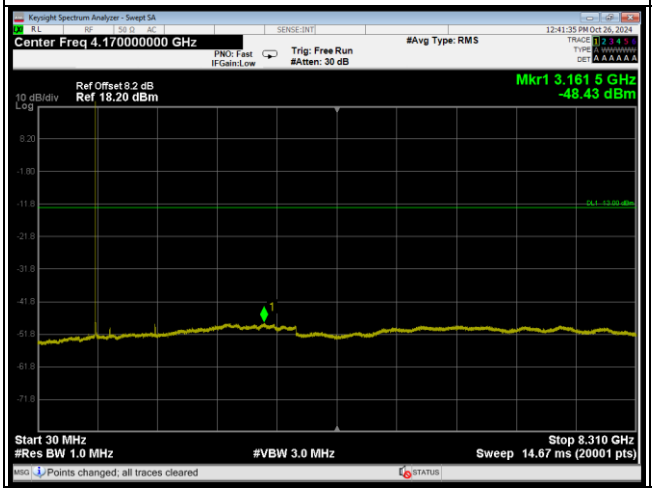
CP-OFDM 64QAM

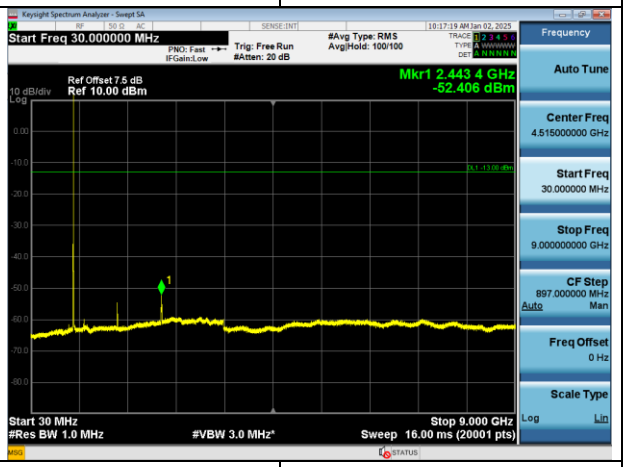


CP-OFDM 256QAM



APPENDIX C - CONDUCTED SPURIOUS EMISSIONS

LTE Band 26_CH26740 Spectrum Plot	
1.4MHz	5MHz
	
10MHz	-
	-

NR n26_5M Spectrum Plot			
DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK	
Channel	Low	Channel	Low
			
Channel	Mid	Channel	Mid
			
Channel	High	Channel	High
			

NR n26_10M Spectrum Plot			
DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK	
Channel	Mid	Channel	Mid