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Report No.: 2501TW0104-U2
Report Version: 1.0
Issue Date: 2025-01-24

MEASUREMENT REPORT
C2PC

FCC ID	:	**HD5-CK67X1N**
APPLICANT	:	**Honeywell International Inc**
Application Type	:	**Certification**
Product	:	**Mobile Computer**
Model No.	:	**CK67X1N**
Brand Name	:	**Honeywell**
FCC Classification	:	**Citizens Band End User Devices (CBE)**
FCC Rule Part(s)	:	**Part2, Part96**
Test Procedure(s)	:	**ANSI C63.26 2015**
Received Date	:	**August 5, 2024**
Test Date	:	**January 6, 2025~ January 14, 2025**

Tested By : Wenlee
(Wen Lee)

Reviewed By : Paddy Chen
(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)

Testing Laboratory
3261

The test results only relate to the tested sample.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015.
Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2501TW0104-U2	1.0	Original Report	2025-01-24	

Note:

1. This time, added LTE band 42: 3550~3600MHz and the LTE Band 42 Power Class 3 function is enabled, so the FCC C2PC is executed, original report Grant Date: 01/24/2025, FCC ID: HD5-CK67X1N.
2. Based on original report number: 2408TW0104-U15, since the frequency turned on is covered by band 48 ,so verify Transmitter Output Power & Transmitter unwanted emissions.

CONTENTS

Description Page

1. INTRODUCTION 6

1.1. Scope 6
1.2. MRT Test Location 6
1.3. Product Information 7
1.4. Radio Specification under Testing 8
1.5. Description of Available Antennas 9
1.6. Test Methodology 9

2. DESCRIPTION OF TEST 10

2.1. Summary 10
2.2. Occupied Bandwidth 12
2.3. Frequency Stability / Temperature Variation 12
2.4. Conducted Output Power Measurment 13
2.5. Peak-Average Ratio 13
2.6. Spurious and Harmonic Emissions at Antenna Terminal 14
2.7. Conducted and Radiated Spurious Emissions 15

3. TEST EQUIPMENT CALIBRATION DATE 16

4. Decision Rules and Measurement Uncertainty 17

4.1. Decision Rules 17
4.2. Measurement Uncertainty 17

5. TEST RESULT 18

5.1. Summary 18
5.2. Occupied Bandwidth 19
5.3. Frequency Stability Under Temperature & Voltage Variations 20
5.4. Transmitter Output Power Measurement 21
5.5. Peak-Average Ratio 22
5.6. Transmitter unwanted emissions (band-edge) Measurement 23
5.7. Transmitter unwanted emissions (spurious) Measurement 25
5.8. Radiated Spurious Emissions Measurement 27

Appendix A : TEST RESULT DATA 29

A1. Occupied Bandwidth Test Result 29
A1.1 LTE B42 29
A2. Frequency Stability Test Result 30
A2.1 LTE Band 42 30

A3. Transmitter Output Power Test Result 31
A3.1 LTE B42 PC3 (3.55G~3.6G) 31
A4. Peak to Average Radio Test Result 32
A4.1 LTE Band42 32
A5. Transmitter unwanted emissions (band-edge) Test Result 33
A5.1 LTE B42 PC3 (3.55G~3.6G) 33
A6. Transmitter unwanted emissions (spurious) Test Result 37
A6.1 LTE B42 PC3 (3.55G~3.6G) 37
A7. Radiated Spurious Emissions Test Result 53
A7.1 LTE B42 53

Appendix B : Test Photograph 54

Appendix C : External Photograph 54

Appendix D : Internal Photograph 54

General Information

Applicant	Honeywell International Inc
Applicant Address	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Manufacturer	Honeywell International Inc
Manufacturer Address	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

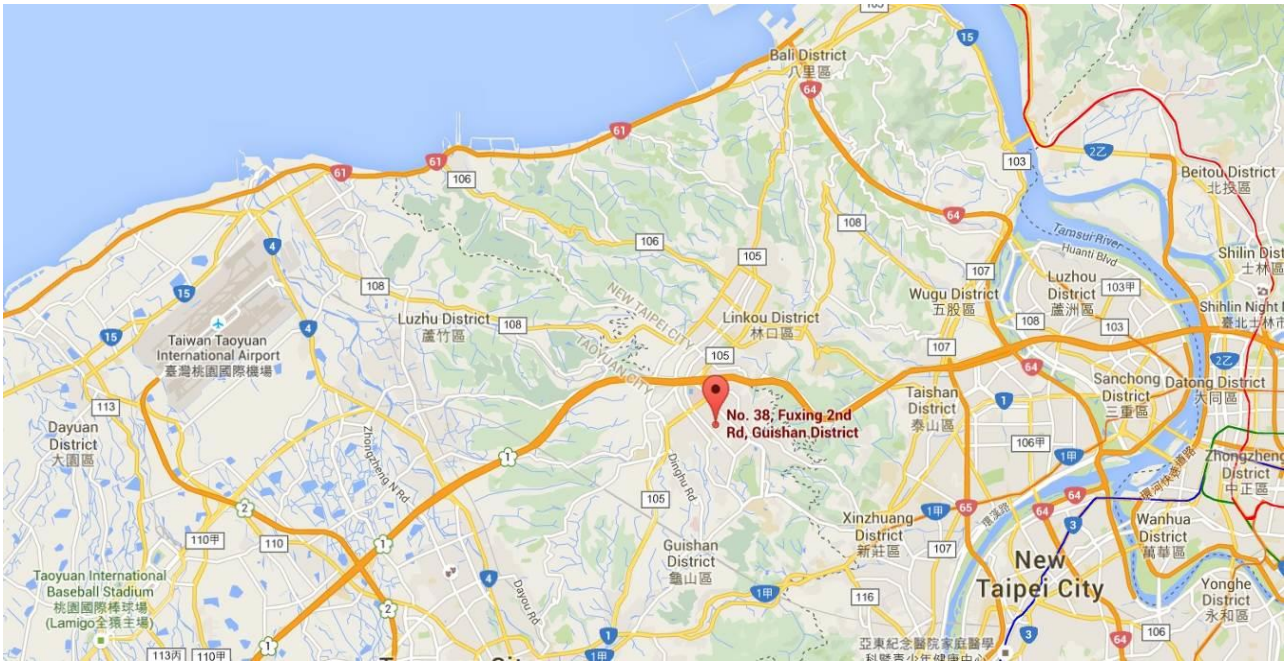
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



1.3. Product Information

Product Name	Mobile Computer
Model No.	CK67X1N
Brand Name	Honeywell
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Bluetooth Specification	Main BT/BLE : V5.3 dual mode + 2nd BLE: V5.3 Single mode
NFC Specification	13.56MHz
WWAN Specification	4G-LTE: Band 2,4,5,7,12,13,14,17,25,26,30,38,41,42,43,48,66,71 5G-NR: n 2,5,7,12,13,14,25,26,30,38,41,48,66,71,77,78
CA Intra-Band	5B; 7C; 38C; 41C; 66B; 66C
EUT Identification No.:	#24295D8051, #24295D80CF (Conducted) #24295D8059 (Radiated)
Operating Temperature Range	-20~50 °C
Supply Voltage Rating	DC 3.6V
Accessory	
Battery	Brand: Honeywell MODEL:CK65-BTSC Rating: 3.6Vdc, 7000mAh, 25.2Wh
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

Note:

1. For other features of this EUT, test report will be issued separately.
2. This product has 3 scanners, 5 keypads, can refer as below:

Scanner	S0703	S0803FR	S0803	--	--
Keypad	Alpha Numeric	Numeric	Large Numeric	53keys Alpha Numeric	42keys Numeric

3. This report selected S0803FR with Alpha Numeric as the main test.

1.4. Radio Specification under Testing

E-UTRA Specification	
TDD TX & RX Frequency Range	LTE Band 42 (Part 96): 3550 ~ 3600 MHz;
HUPE Band (Power Class 2)	LTE Band 42
Support Bandwidth	LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz
Type of Modulation	UL up to 256QAM, DL up to 256QAM

3.5G Support Band	Part96 (3550-3600MHz)
LTE Band 42	PC3

1.5. Description of Available Antennas

Antenna Type			LDS			
Technology	Frequency Range (MHz)		Max Peak Gain (dBi)			
	TX	RX	ANT3	ANT4	ANT5	ANT6
LTE Band 42	3550 ~ 3600		--	--	-1.50	-1.51

Note

1: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.

2: The typical antennas used to calculate the ERP (EIRP).

3. Ant3 support SRS functions and its signal is switched from Ant5.

4. Ant4 support SRS functions and its signal is switched from Ant6.

5. Ant6 support TX functions for UHB (3300MHz-3800MHz).

1.6. Test Methodology

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

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 96
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r02: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

2. DESCRIPTION OF TEST

2.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
2.1049	Occupied Bandwidth	Conducted	N/A
2.1055	Frequency Stability		N/A
2.1046, 96.41 (b)	Transmitter Output Power		Pass
2.1051, 96.41 (e)	Transmitter unwanted emissions (band-edge)		Pass
2.1051, 96.41 (e)	Transmitter unwanted emissions (spurious)		
2.1053, 96.41 (e)	Transmitter Spurious Emissions	Radiated	N/A

Notes: The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

1) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Transmitter unwanted emissions (band-edge), Transmitter unwanted emissions (spurious), Radiated Spurious Emissions were presented worst-case in the test report.
2) For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

LTE Test Items	Bandwidth	Modulation	RB Combination	Test Channel
Occupied Bandwidth	All BW	All Modulation	Full	Low/Middle/High
Frequency Stability	Maximum BW	QPSK	Full	Middle
Transmitter Output Power	All BW	All Modulation	1RB/Half/Full	Low/Middle/High
Peak to Average Ratio	Maximum BW	All Modulation	Full	Middle
Band Edge	All BW	QPSK	1RB/Half/Full	Low/High
Conducted Emissions	All BW	All Modulation	1RB	Low/Middle/High
Radiated Emissions	Minimum BW	QPSK	1RB	Low/Middle/High

Note:

1. All modes of operation and data rates were investigated. The test results shown in the above part represent the worst case emissions.
2. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.

NR Test Items	Bandwidth	Modulation	RB Combination	Test Channel
Occupied Bandwidth	All BW	All DFT Modulation	Outer full RB	Low/Middle/High
Frequency Stability	Maximum BW	DFT_BPSK	Outer full RB	Middle
Transmitter Output Power	All BW	All DFT Modulation and CP_QPSK Modulation	Edge_1RB Inner_1RB Inner Full RB Outer full RB	Low/Middle/High
Peak to Average Ratio	Maximum BW	All DFT Modulation	Outer full RB	Middle
Band Edge	All BW	DFT_BPSK	Edge_1RB Outer full RB	Low/High
Conducted Emissions	All BW	All DFT Modulation	Inner_1RB	Low/Middle/High
Radiated Emissions	Minimum BW	DFT_BPSK	Inner_1RB	Low/Middle/High

Note:

1. All modes of operation and data rates were investigated. The test results shown in the above part represent the worst case emissions.
2. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.

2.2. Occupied Bandwidth

According to FCC Part 2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

2.3. Frequency Stability / Temperature Variation

According to FCC Part 2.1055

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

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

Specification – For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

2.4. Conducted Output Power Measurment

According to FCC Part 2.1046, 96.41

According to KDB 412172 D01 Section 1.2 Power Approach

EIRP = PT + GT – LC = ERP + 2.15 dB, ERP = EIRP – 2.15 dB

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB.

Technology	EIRP Power Limit
LTE Band 42	23dBm/10MHz

2.5. Peak-Average Ratio

According to FCC Part 96.41

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

2.6. Spurious and Harmonic Emissions at Antenna Terminal

According to FCC Part 2.1051, 96.41

For 96.41(e)(1)(2)

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed −25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

2.7. Conducted and Radiated Spurious Emissions

According to FCC Part 2.1051, 2.1053, 96.41

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

For 96.41(e)(1)(2)

The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

3. TEST EQUIPMENT CALIBRATION DATE

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Acitve Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2025/5/7
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00086	1 year	2025/11/5
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2025/5/20
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2025/5/14
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2025/3/26
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2025/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2025/3/5
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2025/6/20
Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2025/6/14
Cable	Rosnol	K1K50-UP0264-K1K50-4M	MRTTWE00012	1 year	2025/6/14

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2025/9/24
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2025/8/12
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2025/3/12
Wideband Radio Communication Taster	R&S	CMW 500	MRTTWA00084	1 year	2025/10/23
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MRTTWA00089	1 year	2025/5/30

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Radiated Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz~30MHz: ± 3.92dB 30MHz~1GHz: ± 4.25dB 1GHz~18GHz: ± 4.40dB 18GHz~40GHz: ± 4.45dB
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±78.4Hz
Conducted Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 0.84dB
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):± 2.65 dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±3.3%
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±0.82°C/ ±3%
DC Voltage
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±0.3%

Note:
Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.

5. TEST RESULT

5.1. Summary

Maximum Conducted Power and ERP/EIRP Power

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows

ERP or EIRP = $P_{Meas} + G_T$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively. (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

ERP = EIRP -2.15

LTE Band		Band42	Antenna Gain (dBi)		-1.51
BW	Modulation	Conducted Peak Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	EIRP Limit
5MHz	QPSK	24.26	22.75	0.188	23dBm/10MHz
	16QAM	23.18	21.67	0.147	23dBm/10MHz
	64QAM	22.29	20.78	0.120	23dBm/10MHz
	256QAM	19.33	17.82	0.061	23dBm/10MHz
10MHz	QPSK	24.42	22.91	0.195	23dBm/10MHz
	16QAM	23.30	21.79	0.151	23dBm/10MHz
	64QAM	22.03	20.52	0.113	23dBm/10MHz
	256QAM	19.36	17.85	0.061	23dBm/10MHz
15MHz	QPSK	23.93	22.42	0.175	23dBm/10MHz
	16QAM	22.84	21.33	0.136	23dBm/10MHz
	64QAM	21.86	20.35	0.108	23dBm/10MHz
	256QAM	19.17	17.66	0.058	23dBm/10MHz
20MHz	QPSK	23.78	22.27	0.169	23dBm/10MHz
	16QAM	23.05	21.54	0.143	23dBm/10MHz
	64QAM	22.16	20.65	0.116	23dBm/10MHz
	256QAM	19.07	17.56	0.057	23dBm/10MHz

5.2. Occupied Bandwidth

5.2.1 Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

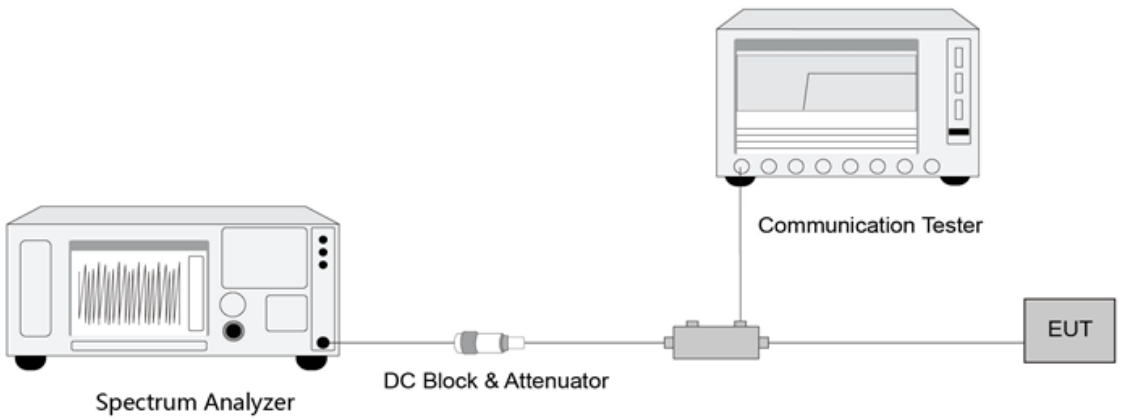
5.2.2 Test Procedure used

ANSI C63.26-2015 - Section 5.4.4

5.2.3 Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4 Test Setup



5.2.5 Test Result

Refer to Appendix A.1

5.3. Frequency Stability Under Temperature & Voltage Variations

5.3.1 Test Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

5.3.2 Test Procedure

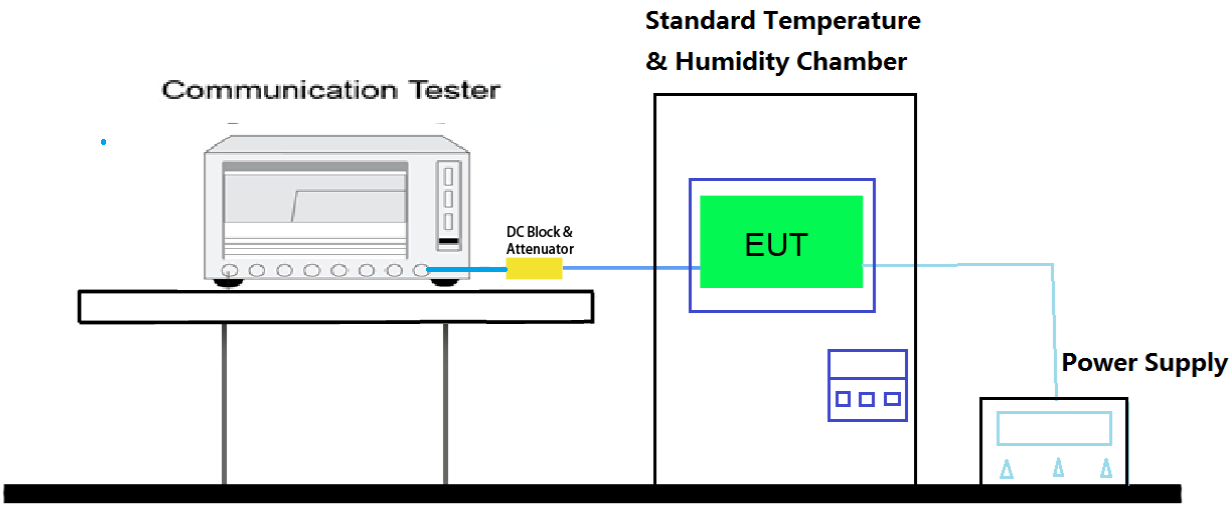
ANSI C63.26-2015 - Section 5.6

5.3.3 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 (±15%) and endpoint, recordthe maximum

5.3.4 Test Setup



5.3.5 Test Result

Refer to Appendix A.2

5.4. Transmitter Output Power Measurement

5.4.1 Test Limit

Technology	EIRP Power Limit
LTE Band 42	23dBm/10MHz
CBSD frequency range 3550MHz ~ 3700MHz.	

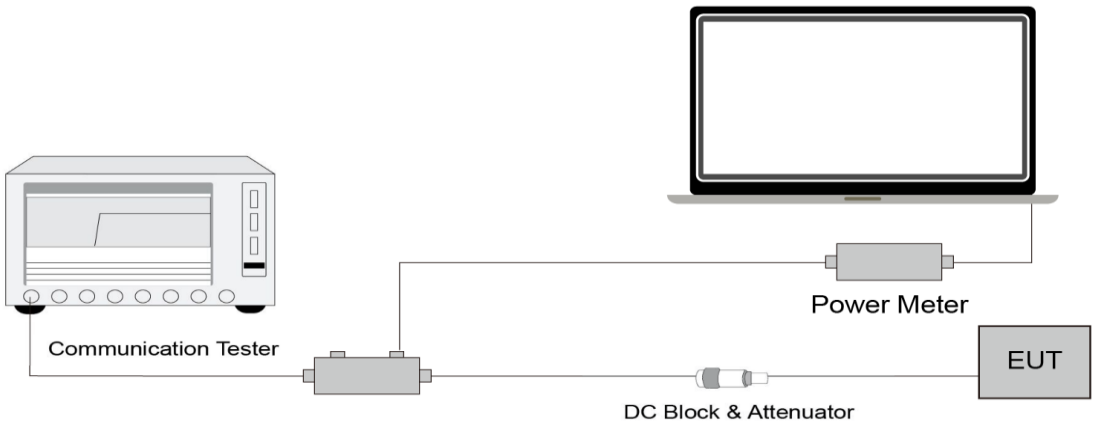
5.4.2 Test Procedure

ANSI C63.26-2015 - Section 5.2.4.2

5.4.3 Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

5.4.4 Test Setup



5.4.5 Test Result

Refer to Appendix A.3

5.5. Peak-Average Ratio

5.5.1 Test Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

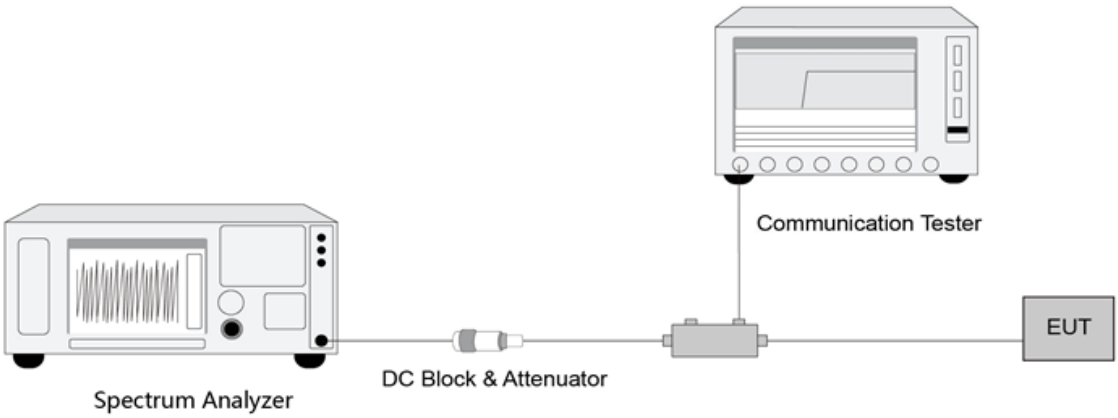
5.5.2 Test Procedure

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

5.5.3 Test Setting

1. Set the 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 PARR level associated with a probability of 0.1%

5.5.4 Test Setup



5.5.5 Test Result

Refer to Appendix A.4

5.6. Transmitter unwanted emissions (band-edge) Measurement

5.6.1 Test Limit

For 96.41(e)(1)(2)

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed −25 dBm/MHz.

The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

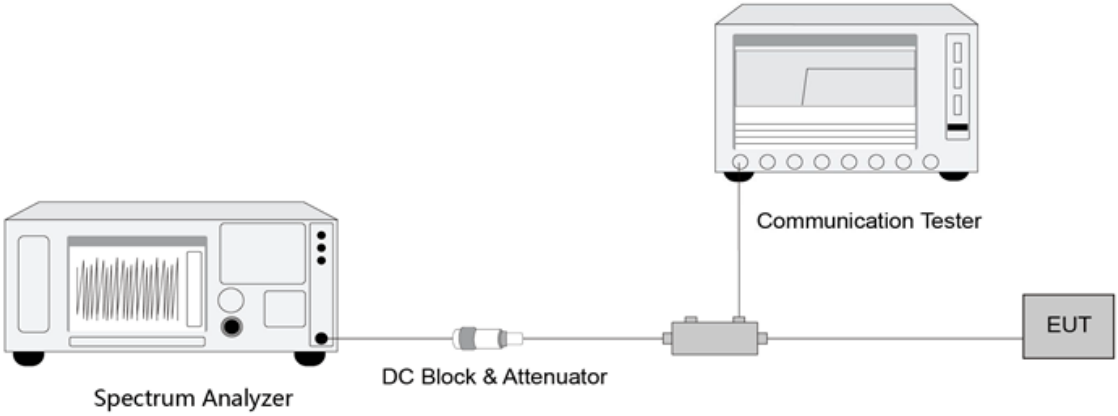
5.6.2 Test Procedure

ANSI C63.26-2015 - Section 5.7.

5.6.3 Test Setting

In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

5.6.4 Test Setup



5.6.4 Test Result

Refer to Appendix A.5

5.7. Transmitter unwanted emissions (spurious) Measurement

5.7.1 Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

For For 96.41(e)(2)

The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

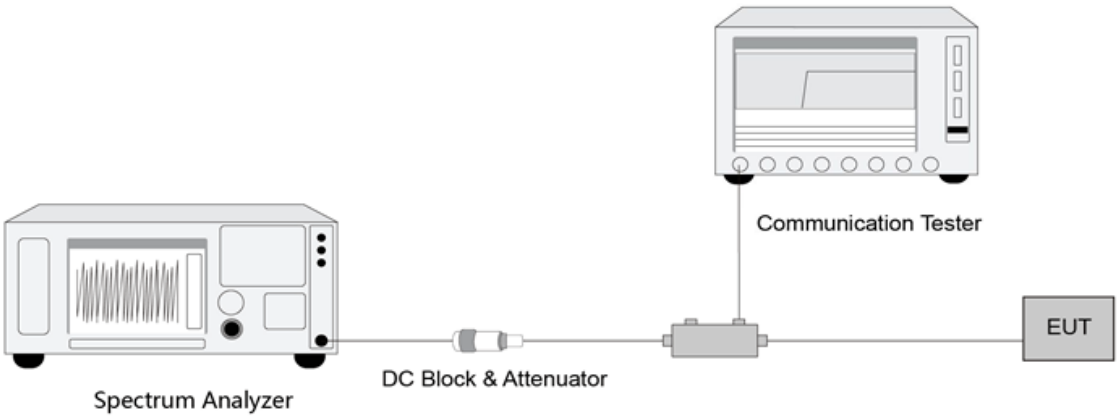
5.7.2 Test Procedure

ANSI C63.26-2015 - Section 5.7

5.7.3 Test Setting

1. Set the analyzer frequency to low, Mid or high channel.
2. RBW = specified resolution bandwidth of 100 kHz is at or below 1GHz and 1MHz is above 1GHz
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.
7. Use the peak marker function to determine the maximum amplitude level.

5.7.4 Test Setup



5.7.5 Test Result

Refer to Appendix A.6

5.8. Radiated Spurious Emissions Measurement

5.8.1 Test Limit

On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

For For 96.41(e)(2)

The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

5.8.2 Test Procedure

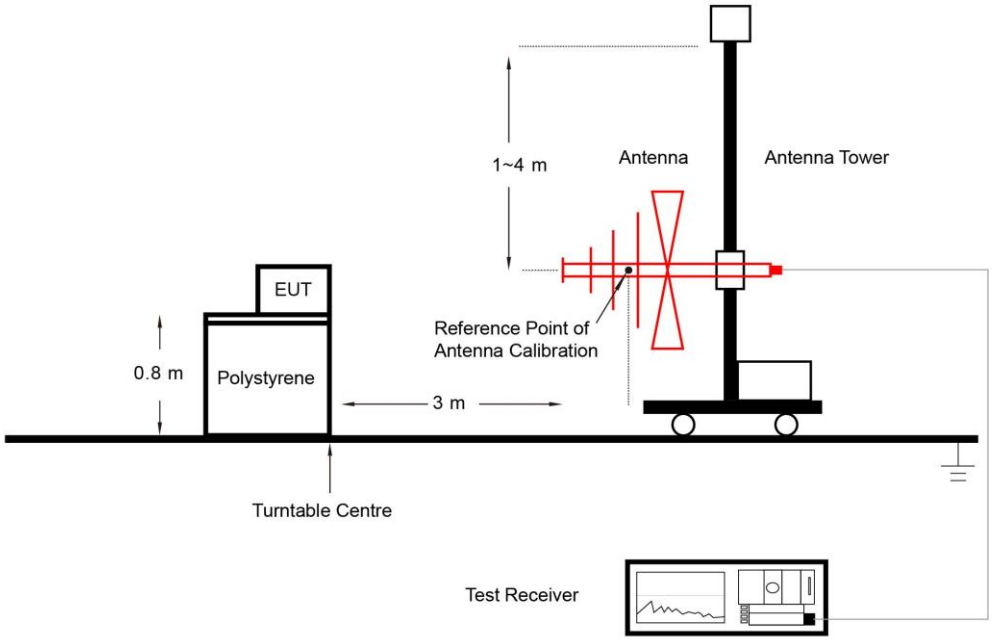
ANSI C63.26-2015 - Section 5.7

5.8.3 Test Setting

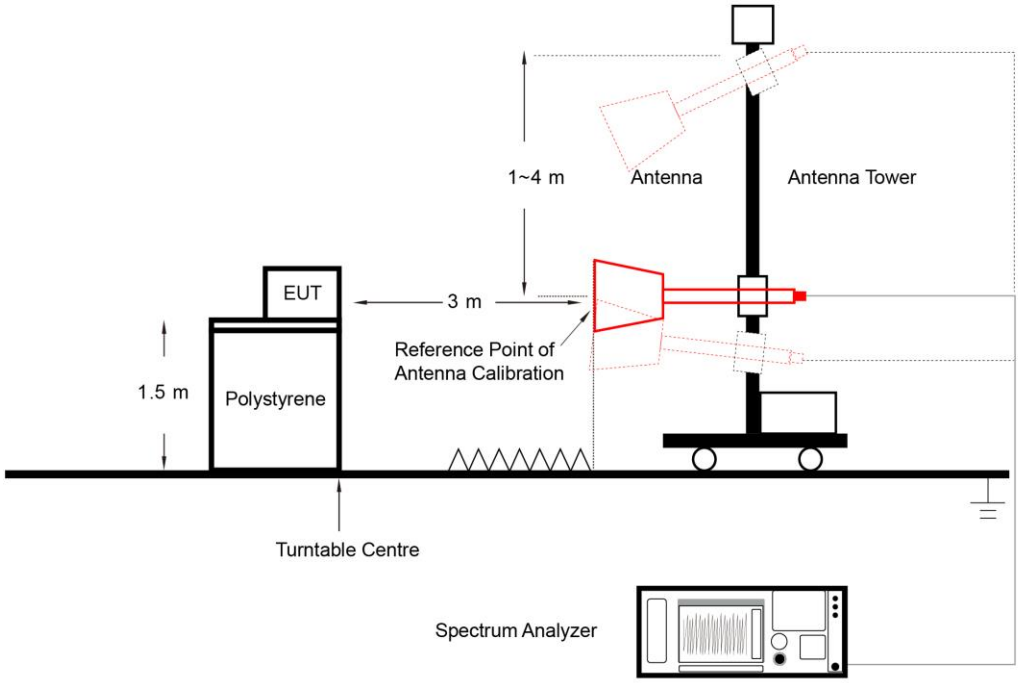
1. RBW = 120kHz or 1MHz
2. VBW ≥ 3*RBW
3. Sweep time ≥ 10 × (number of points in sweep) × (transmission symbol period)
4. Detector = CISPR quasi-peak / average detector (Below 1 GHz, compliance with the limits shall be demonstrated using a CISPR quasi-peak detector and the related measurement bandwidth. Above 1 GHz, compliance with the limits shall be demonstrated using a linear average detector with a minimum resolution bandwidth of 1 MHz.)
5. The trace was allowed to stabilize

5.8.4 Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.8.5 Test Result

Refer to Appendix A.7.

Appendix A : TEST RESULT DATA

A1. Occupied Bandwidth Test Result

A1.1 LTE B42

Please refer to the original report Grant Date: 01/24/2025, FCC ID: HD5-CK67X1N.

A2. Frequency Stability Test Result

A2.1 LTE Band 42

Please refer to the original report Grant Date: 01/24/2025, FCC ID: HD5-CK67X1N.

A3. Transmitter Output Power Test Result

A3.1 LTE B42 PC3 (3.55G~3.6G)

LTE Band42			Maximum Conducted Output Power (Channel / Frequency (MHz))											
Modulation	Bandwidth		5MHz			10MHz			15MHz			20MHz		
	RB	RB	43115	43340	43565	43140	43340	43540	43165	43340	43515	43190	43340	43490
	No.	Offset	3552.5	3575	3597.5	3555	3575	3595	3557.5	3575	3592.5	3560	3575	3590
QPSK	1	#0	24.12	23.98	23.93	23.66	23.91	23.45	23.42	23.93	23.71	23.75	23.58	23.53
	1	#Mid	23.88	24.26	23.50	23.95	24.05	23.57	23.57	23.81	23.44	23.78	23.53	23.35
	1	#High	23.84	23.46	23.72	24.42	24.15	23.64	23.52	23.65	23.63	23.65	23.42	23.70
	50%	#0	22.73	22.98	22.75	22.90	22.82	22.75	22.75	22.54	22.52	22.80	22.64	22.71
	50%	#Mid	22.75	23.10	22.75	22.81	22.88	22.71	22.72	22.61	22.71	22.84	22.84	22.51
	50%	#High	23.00	22.84	22.95	23.01	22.97	22.95	22.61	22.79	22.57	22.62	22.74	22.52
	100%	#0	22.88	22.80	22.93	22.93	22.79	22.85	22.73	22.82	22.49	22.77	22.76	22.47
16QAM	1	#0	22.91	22.89	22.54	23.19	22.71	22.50	22.11	22.33	22.23	22.52	21.81	23.05
	1	#Mid	22.74	23.00	22.71	22.95	23.21	23.19	22.84	22.14	22.63	22.79	22.74	22.73
	1	#High	22.54	23.18	22.69	23.30	22.67	23.15	22.75	22.52	22.65	22.38	22.74	22.43
	50%	#0	22.01	21.60	21.92	21.98	21.90	21.81	21.75	21.75	21.49	21.48	21.58	21.78
	50%	#Mid	21.97	21.80	21.77	21.96	22.09	21.77	21.72	21.64	21.77	21.74	21.85	21.55
	50%	#High	21.90	21.72	21.87	22.09	21.74	21.86	21.71	21.83	21.80	21.92	21.52	21.84
	100%	#0	21.80	22.01	21.86	21.94	21.84	21.88	21.78	21.72	21.76	21.49	21.53	21.43
64QAM	1	#0	21.63	22.11	21.36	21.42	21.65	21.79	21.74	21.25	21.86	22.09	22.16	21.71
	1	#Mid	21.70	22.29	21.91	21.94	21.57	21.93	21.74	21.68	21.32	21.73	21.31	21.70
	1	#High	21.55	21.40	22.11	22.03	21.85	21.75	21.33	21.51	21.80	21.97	21.16	21.61
	50%	#0	20.66	20.92	20.75	20.84	20.79	21.02	20.49	20.47	20.60	20.73	20.59	20.72
	50%	#Mid	20.92	20.96	21.07	20.98	20.81	20.71	20.56	20.89	20.57	20.54	20.80	20.83
	50%	#High	20.89	21.24	20.73	20.99	20.82	20.87	20.70	20.63	20.70	20.53	20.63	20.55
	100%	#0	20.94	21.02	20.84	20.81	20.75	20.84	20.66	20.52	20.57	20.45	20.52	20.57
256QAM	1	#0	18.61	18.68	19.33	19.36	19.26	19.11	18.98	18.63	18.89	18.86	18.88	18.54
	1	#Mid	18.73	19.09	19.10	18.86	18.97	18.02	18.72	18.99	18.66	19.07	18.63	18.64
	1	#High	18.72	18.55	19.33	18.64	19.06	18.57	19.17	18.76	18.51	19.04	18.45	18.39
	50%	#0	19.00	18.78	18.72	18.86	18.70	18.74	18.66	18.75	18.72	18.65	18.90	18.57
	50%	#Mid	19.00	18.89	18.89	18.76	19.05	18.93	18.65	18.82	18.77	18.83	18.85	18.69
	50%	#High	18.97	19.03	18.77	18.94	19.01	18.78	18.77	18.84	18.75	18.91	18.82	18.73
	100%	#0	18.91	19.16	18.84	18.84	18.87	18.77	18.74	18.80	18.60	18.73	18.70	18.74

A4. Peak to Average Radio Test Result

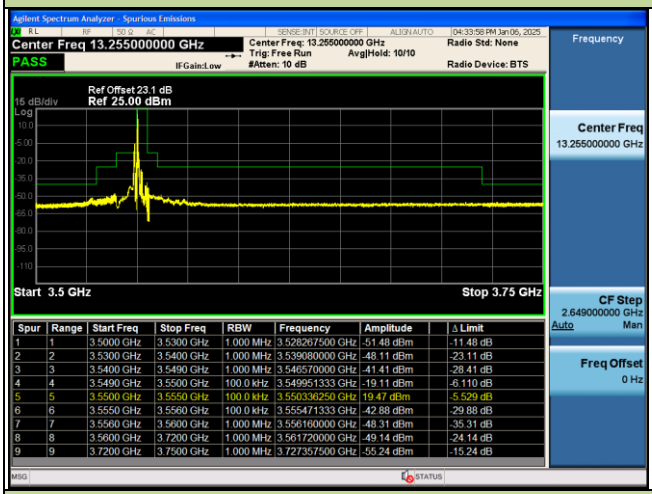
A4.1 LTE Band42

Please refer to the original report Grant Date: 01/24/2025, FCC ID: HD5-CK67X1N.

A5. Transmitter unwanted emissions (band-edge) Test Result

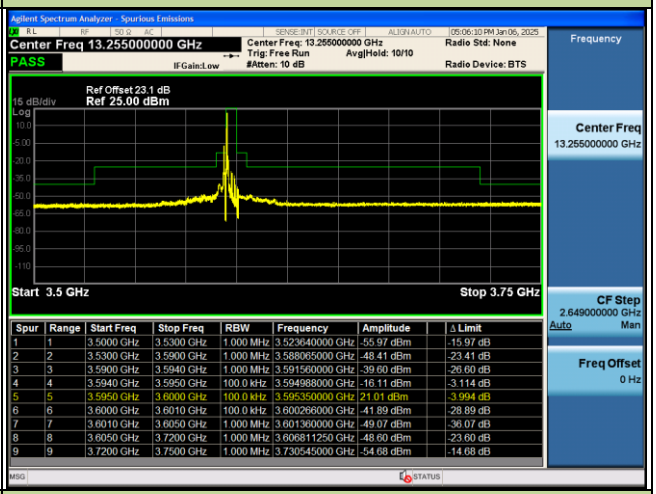
A5.1 LTE B42 PC3 (3.55G~3.6G)

EDGE_4G_B42 (PART96)_.QPSK_5M _1RB@0_CH43115



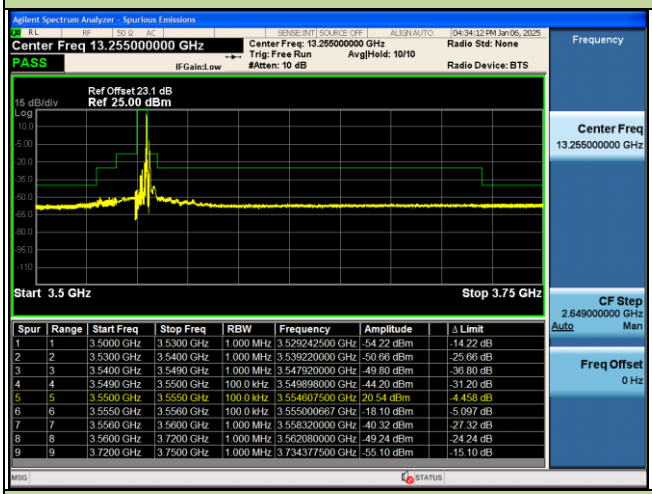
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528267500 GHz	-51.48 dBm	-11.48 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539080000 GHz	-48.11 dBm	-23.11 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.546570000 GHz	-41.41 dBm	-28.41 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549951333 GHz	-19.11 dBm	-6.110 dB
5	5	3.5500 GHz	3.5550 GHz	100.0 kHz	3.550336250 GHz	19.47 dBm	-5.529 dB
6	6	3.5550 GHz	3.5560 GHz	100.0 kHz	3.555471333 GHz	-42.88 dBm	-29.88 dB
7	7	3.5560 GHz	3.5600 GHz	1.000 MHz	3.556160000 GHz	-48.31 dBm	-35.31 dB
8	8	3.5600 GHz	3.7200 GHz	1.000 MHz	3.561720000 GHz	-49.14 dBm	-24.14 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.727357500 GHz	-55.24 dBm	-15.24 dB

EDGE_4G_B42 (PART96)_.QPSK_5M _1RB@0_CH43565



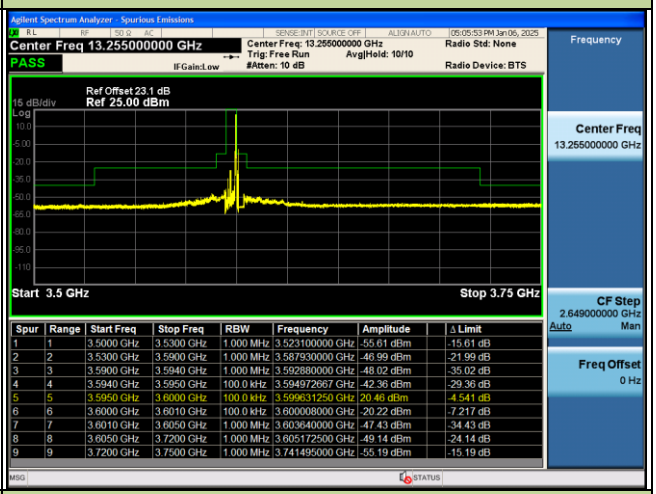
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.523640000 GHz	-55.97 dBm	-15.97 dB
2	2	3.5300 GHz	3.5900 GHz	1.000 MHz	3.588065000 GHz	-48.41 dBm	-23.41 dB
3	3	3.5900 GHz	3.5940 GHz	1.000 MHz	3.591560000 GHz	-39.60 dBm	-26.60 dB
4	4	3.5940 GHz	3.5950 GHz	100.0 kHz	3.594988000 GHz	-16.11 dBm	-3.114 dB
5	5	3.5950 GHz	3.6000 GHz	100.0 kHz	3.595350000 GHz	21.01 dBm	-3.994 dB
6	6	3.6000 GHz	3.6010 GHz	100.0 kHz	3.600266000 GHz	-41.89 dBm	-28.89 dB
7	7	3.6010 GHz	3.6050 GHz	1.000 MHz	3.601360000 GHz	-49.07 dBm	-36.07 dB
8	8	3.6050 GHz	3.7200 GHz	1.000 MHz	3.606811250 GHz	-48.60 dBm	-23.60 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.730545000 GHz	-54.68 dBm	-14.68 dB

EDGE_4G_B42 (PART96)_.QPSK_5M _1RB@MAX_CH43115



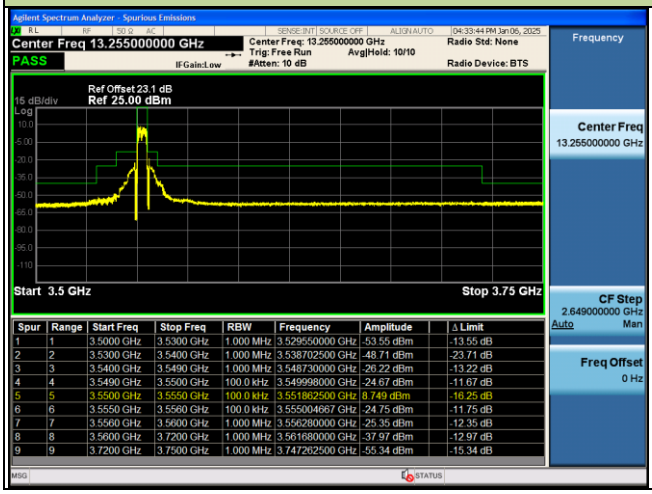
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.529242500 GHz	-54.22 dBm	-14.22 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539220000 GHz	-50.66 dBm	-25.66 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.547920000 GHz	-49.80 dBm	-36.80 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549898000 GHz	-44.20 dBm	-31.20 dB
5	5	3.5500 GHz	3.5550 GHz	100.0 kHz	3.554607500 GHz	20.54 dBm	-4.458 dB
6	6	3.5550 GHz	3.5560 GHz	100.0 kHz	3.555000667 GHz	-18.10 dBm	-5.097 dB
7	7	3.5560 GHz	3.5600 GHz	1.000 MHz	3.558320000 GHz	-40.32 dBm	-27.32 dB
8	8	3.5600 GHz	3.7200 GHz	1.000 MHz	3.562080000 GHz	-49.24 dBm	-24.24 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.743377500 GHz	-55.10 dBm	-15.10 dB

EDGE_4G_B42 (PART96)_.QPSK_5M _1RB@MAX_CH43565



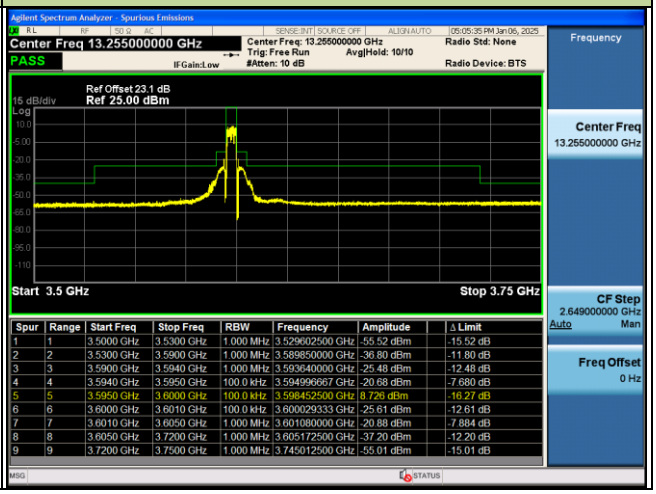
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.523100000 GHz	-55.61 dBm	-15.61 dB
2	2	3.5300 GHz	3.5900 GHz	1.000 MHz	3.587930000 GHz	-46.99 dBm	-21.99 dB
3	3	3.5900 GHz	3.5940 GHz	1.000 MHz	3.592880000 GHz	-48.02 dBm	-35.02 dB
4	4	3.5940 GHz	3.5950 GHz	100.0 kHz	3.594972667 GHz	-42.36 dBm	-29.36 dB
5	5	3.5950 GHz	3.6000 GHz	100.0 kHz	3.599631250 GHz	20.46 dBm	-4.541 dB
6	6	3.6000 GHz	3.6010 GHz	100.0 kHz	3.600008000 GHz	-20.22 dBm	-7.217 dB
7	7	3.6010 GHz	3.6050 GHz	1.000 MHz	3.603640000 GHz	-47.43 dBm	-34.43 dB
8	8	3.6050 GHz	3.7200 GHz	1.000 MHz	3.605172500 GHz	-49.14 dBm	-24.14 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.741495000 GHz	-55.19 dBm	-15.19 dB

EDGE_4G_B42 (PART96)_.QPSK_5M _FULL RB@0_CH43115



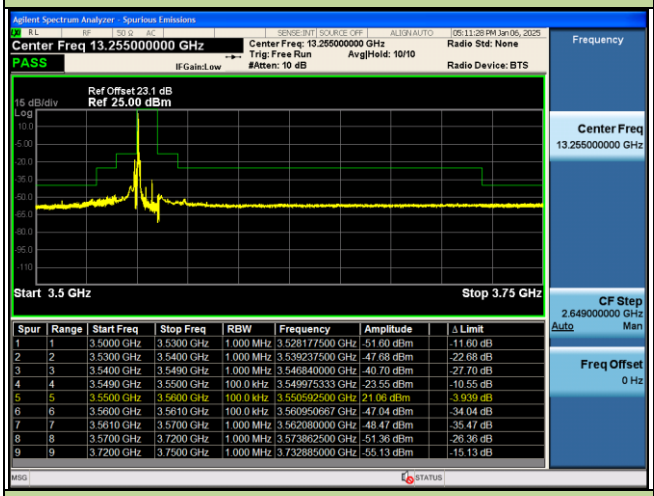
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.529550000 GHz	-53.55 dBm	-13.55 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.538702500 GHz	-48.71 dBm	-23.71 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548730000 GHz	-26.22 dBm	-13.22 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549998000 GHz	-24.67 dBm	-11.67 dB
5	5	3.5500 GHz	3.5550 GHz	100.0 kHz	3.551862500 GHz	8.749 dBm	-16.25 dB
6	6	3.5550 GHz	3.5560 GHz	100.0 kHz	3.555004667 GHz	-24.75 dBm	-11.75 dB
7	7	3.5560 GHz	3.5600 GHz	1.000 MHz	3.556280000 GHz	-25.35 dBm	-12.35 dB
8	8	3.5600 GHz	3.7200 GHz	1.000 MHz	3.561680000 GHz	-37.97 dBm	-12.97 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.747262500 GHz	-55.34 dBm	-15.34 dB

EDGE_4G_B42 (PART96)_.QPSK_5M _FULL RB@0_CH43565



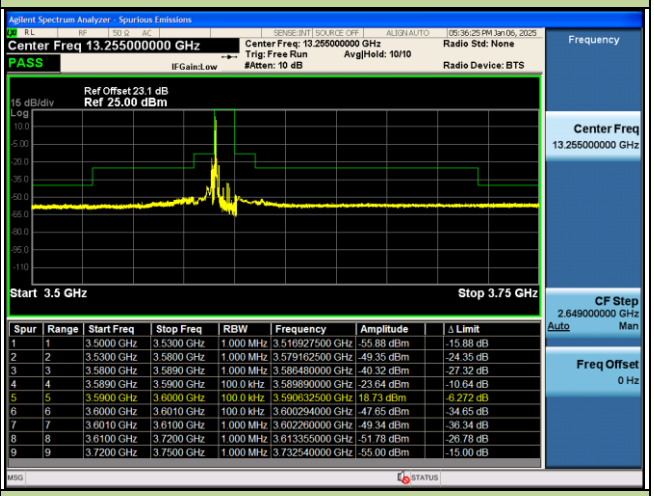
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.529602500 GHz	-55.52 dBm	-15.52 dB
2	2	3.5300 GHz	3.5900 GHz	1.000 MHz	3.588850000 GHz	-36.80 dBm	-11.80 dB
3	3	3.5900 GHz	3.5940 GHz	1.000 MHz	3.593640000 GHz	-25.48 dBm	-12.48 dB
4	4	3.5940 GHz	3.5950 GHz	100.0 kHz	3.594996667 GHz	-20.68 dBm	-7.680 dB
5	5	3.5950 GHz	3.6000 GHz	100.0 kHz	3.598452500 GHz	8.726 dBm	-16.27 dB
6	6	3.6000 GHz	3.6010 GHz	100.0 kHz	3.600029333 GHz	-25.61 dBm	-12.61 dB
7	7	3.6010 GHz	3.6050 GHz	1.000 MHz	3.601080000 GHz	-20.88 dBm	-7.884 dB
8	8	3.6050 GHz	3.7200 GHz	1.000 MHz	3.605172500 GHz	-37.20 dBm	-12.20 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.745012500 GHz	-55.01 dBm	-15.01 dB

EDGE_4G_B42 (PART96)_.QPSK_10M _1RB@0_CH43140



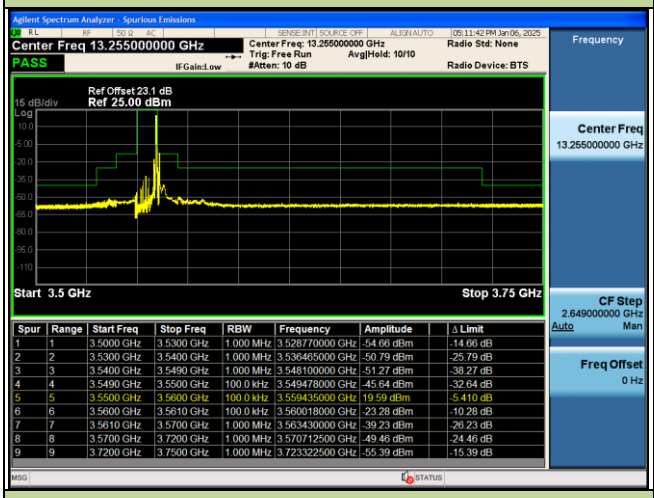
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528177500 GHz	-51.60 dBm	-11.60 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539237500 GHz	-47.68 dBm	-22.68 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.546840000 GHz	-40.70 dBm	-27.70 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549975333 GHz	-23.55 dBm	-10.55 dB
5	5	3.5500 GHz	3.5600 GHz	100.0 kHz	3.550592500 GHz	21.06 dBm	-3.939 dB
6	6	3.5600 GHz	3.5610 GHz	100.0 kHz	3.560950667 GHz	-47.04 dBm	-34.04 dB
7	7	3.5610 GHz	3.5700 GHz	1.000 MHz	3.562080000 GHz	-48.47 dBm	-35.47 dB
8	8	3.5700 GHz	3.7200 GHz	1.000 MHz	3.573862500 GHz	-51.36 dBm	-26.36 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.732885000 GHz	-55.13 dBm	-15.13 dB

EDGE_4G_B42 (PART96)_.QPSK_10M _1RB@0_CH43540



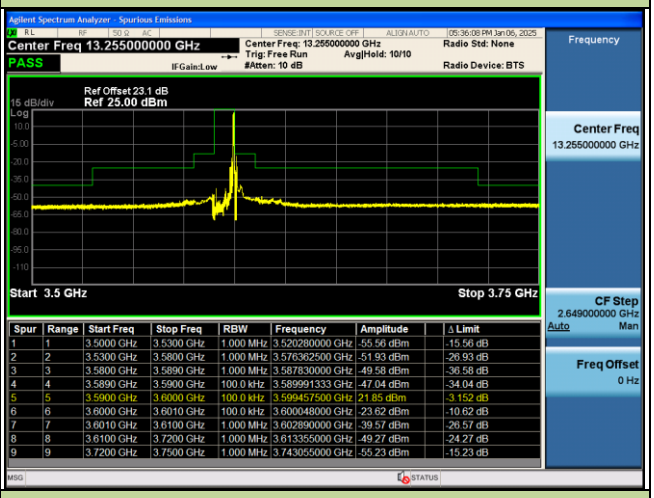
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.516927500 GHz	-55.88 dBm	-15.88 dB
2	2	3.5300 GHz	3.5800 GHz	1.000 MHz	3.579162500 GHz	-49.35 dBm	-24.35 dB
3	3	3.5800 GHz	3.5890 GHz	1.000 MHz	3.586480000 GHz	-40.32 dBm	-27.32 dB
4	4	3.5890 GHz	3.5900 GHz	100.0 kHz	3.589890000 GHz	-23.64 dBm	-10.64 dB
5	5	3.5900 GHz	3.6000 GHz	100.0 kHz	3.590632500 GHz	18.73 dBm	-6.272 dB
6	6	3.6000 GHz	3.6010 GHz	100.0 kHz	3.600294000 GHz	-47.65 dBm	-34.65 dB
7	7	3.6010 GHz	3.6100 GHz	1.000 MHz	3.602260000 GHz	-49.34 dBm	-36.34 dB
8	8	3.6100 GHz	3.7200 GHz	1.000 MHz	3.613355000 GHz	-51.78 dBm	-26.78 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.732540000 GHz	-55.00 dBm	-15.00 dB

EDGE_4G_B42 (PART96)_.QPSK_10M _1RB@MAX_CH43140



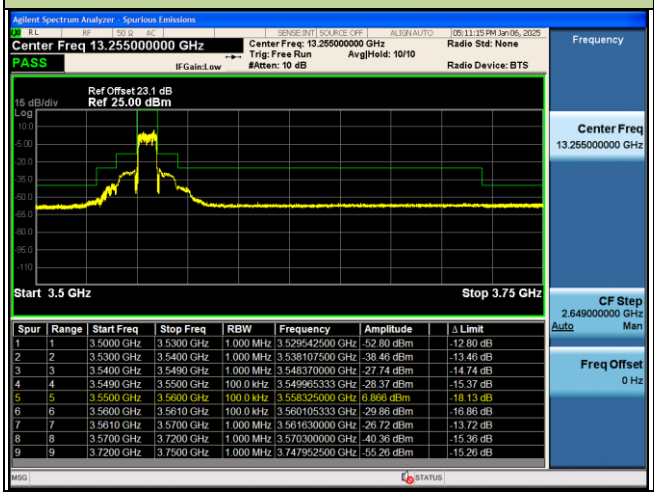
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528770000 GHz	-54.66 dBm	-14.66 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.536465000 GHz	-50.79 dBm	-25.79 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548100000 GHz	-51.27 dBm	-38.27 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549478000 GHz	-45.64 dBm	-32.64 dB
5	5	3.5500 GHz	3.5600 GHz	100.0 kHz	3.559435000 GHz	19.59 dBm	-5.410 dB
6	6	3.5600 GHz	3.5610 GHz	100.0 kHz	3.560018000 GHz	-23.28 dBm	-10.28 dB
7	7	3.5610 GHz	3.5700 GHz	1.000 MHz	3.563430000 GHz	-39.23 dBm	-26.23 dB
8	8	3.5700 GHz	3.7200 GHz	1.000 MHz	3.570712500 GHz	-49.46 dBm	-24.46 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.723322500 GHz	-55.39 dBm	-15.39 dB

EDGE_4G_B42 (PART96)_.QPSK_10M _1RB@MAX_CH43540



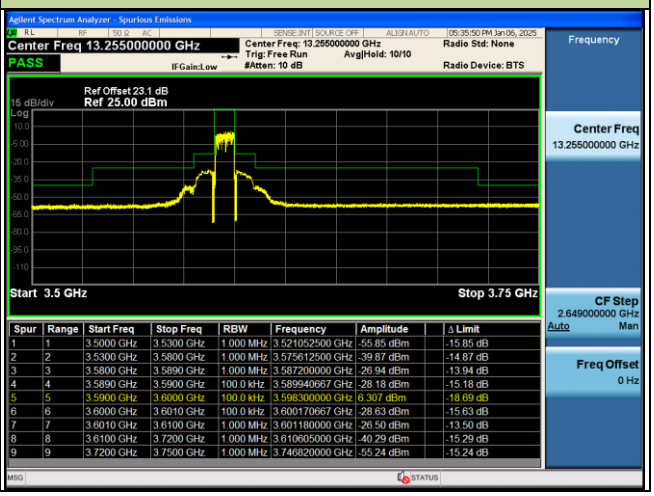
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.520280000 GHz	-55.56 dBm	-15.56 dB
2	2	3.5300 GHz	3.5800 GHz	1.000 MHz	3.576362500 GHz	-51.93 dBm	-26.93 dB
3	3	3.5800 GHz	3.5890 GHz	1.000 MHz	3.587830000 GHz	-49.58 dBm	-36.58 dB
4	4	3.5890 GHz	3.5900 GHz	100.0 kHz	3.589991333 GHz	-47.04 dBm	-34.04 dB
5	5	3.5900 GHz	3.6000 GHz	100.0 kHz	3.599457500 GHz	21.85 dBm	-3.152 dB
6	6	3.6000 GHz	3.6010 GHz	100.0 kHz	3.600048000 GHz	-23.62 dBm	-10.62 dB
7	7	3.6010 GHz	3.6100 GHz	1.000 MHz	3.602890000 GHz	-39.57 dBm	-26.57 dB
8	8	3.6100 GHz	3.7200 GHz	1.000 MHz	3.613355000 GHz	-49.27 dBm	-24.27 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.743055000 GHz	-55.23 dBm	-15.23 dB

EDGE_4G_B42 (PART96)_.QPSK_10M _FULL RB@0_CH43140



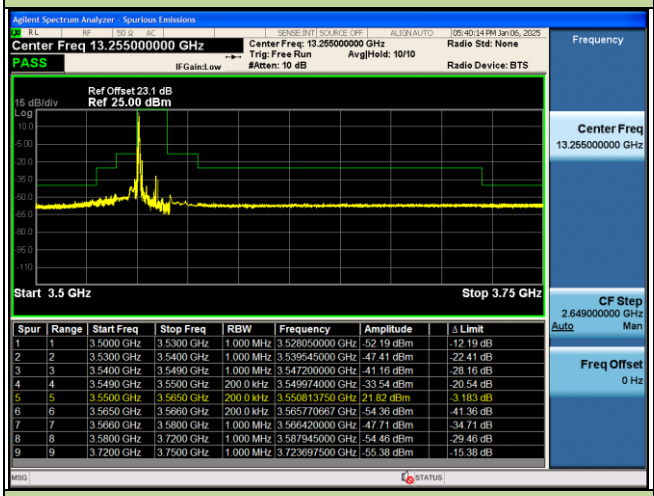
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.529542500 GHz	-52.80 dBm	-12.80 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.538107500 GHz	-38.46 dBm	-13.46 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548370000 GHz	-27.74 dBm	-14.74 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549965333 GHz	-28.37 dBm	-15.37 dB
5	5	3.5500 GHz	3.5600 GHz	100.0 kHz	3.558325000 GHz	6.886 dBm	-18.13 dB
6	6	3.5600 GHz	3.5610 GHz	100.0 kHz	3.560105333 GHz	-29.86 dBm	-16.86 dB
7	7	3.5610 GHz	3.5700 GHz	1.000 MHz	3.561630000 GHz	-26.72 dBm	-13.72 dB
8	8	3.5700 GHz	3.7200 GHz	1.000 MHz	3.570300000 GHz	-40.36 dBm	-15.36 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.747952500 GHz	-55.26 dBm	-15.26 dB

EDGE_4G_B42 (PART96)_.QPSK_10M _FULL RB@0_CH43540



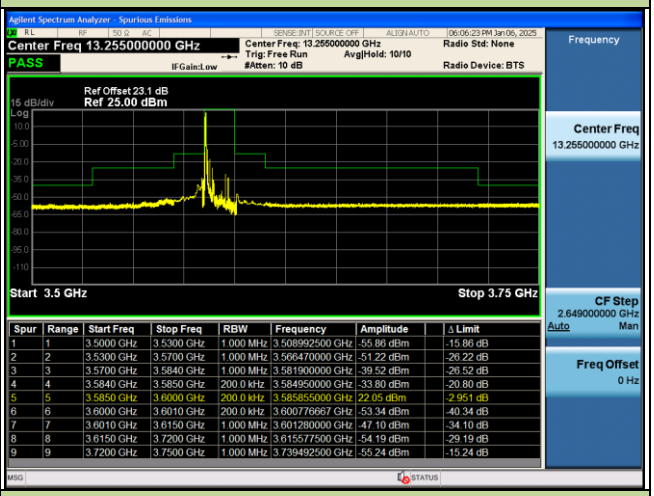
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.521052500 GHz	-55.85 dBm	-15.85 dB
2	2	3.5300 GHz	3.5800 GHz	1.000 MHz	3.575612500 GHz	-39.87 dBm	-14.87 dB
3	3	3.5800 GHz	3.5890 GHz	1.000 MHz	3.587200000 GHz	-26.94 dBm	-13.94 dB
4	4	3.5890 GHz	3.5900 GHz	100.0 kHz	3.589940667 GHz	-28.18 dBm	-15.18 dB
5	5	3.5900 GHz	3.6000 GHz	100.0 kHz	3.598300000 GHz	6.307 dBm	-18.69 dB
6	6	3.6000 GHz	3.6010 GHz	100.0 kHz	3.600170667 GHz	-28.63 dBm	-15.63 dB
7	7	3.6010 GHz	3.6100 GHz	1.000 MHz	3.601180000 GHz	-26.50 dBm	-13.50 dB
8	8	3.6100 GHz	3.7200 GHz	1.000 MHz	3.610605000 GHz	-40.29 dBm	-15.29 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.740820000 GHz	-55.24 dBm	-15.24 dB

EDGE_4G_B42 (PART96)_.QPSK_15M _1RB@0_CH43165



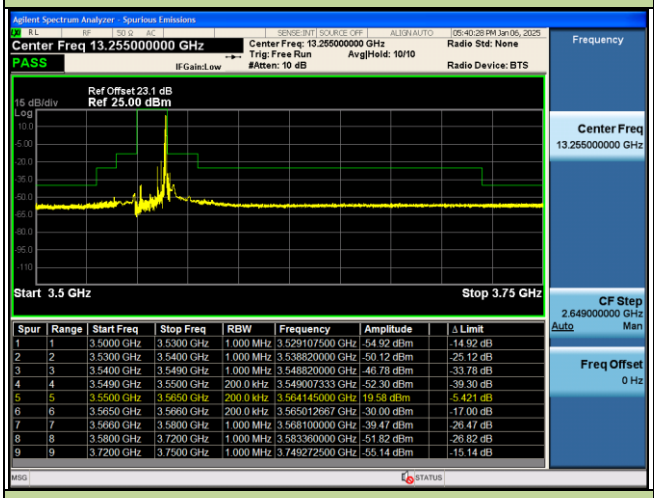
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528050000 GHz	-52.19 dBm	-12.19 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539545000 GHz	-47.41 dBm	-22.41 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.547200000 GHz	-41.16 dBm	-28.16 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549974000 GHz	-33.54 dBm	-20.54 dB
5	5	3.5500 GHz	3.5650 GHz	200.0 kHz	3.550813750 GHz	21.82 dBm	-3.183 dB
6	6	3.5650 GHz	3.5660 GHz	200.0 kHz	3.565770667 GHz	-54.36 dBm	-41.36 dB
7	7	3.5660 GHz	3.5800 GHz	1.000 MHz	3.566420000 GHz	-47.71 dBm	-34.71 dB
8	8	3.5800 GHz	3.7200 GHz	1.000 MHz	3.587945000 GHz	-54.46 dBm	-29.46 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.723697500 GHz	-55.38 dBm	-15.38 dB

EDGE_4G_B42 (PART96)_.QPSK_15M _1RB@0_CH43515



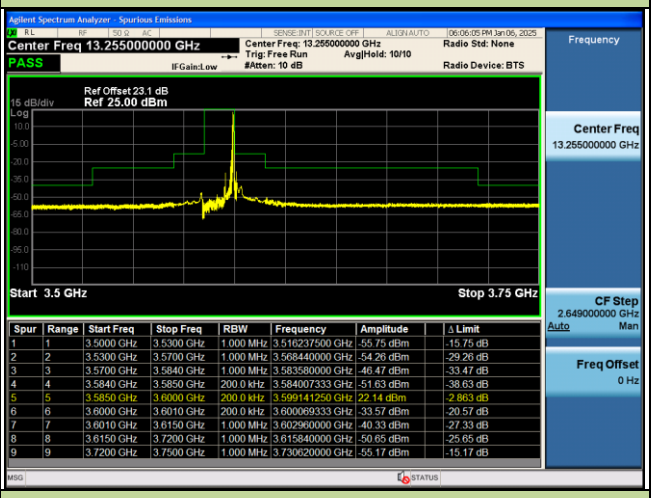
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.508992500 GHz	-55.86 dBm	-15.86 dB
2	2	3.5300 GHz	3.5700 GHz	1.000 MHz	3.566470000 GHz	-51.22 dBm	-26.22 dB
3	3	3.5700 GHz	3.5840 GHz	1.000 MHz	3.581900000 GHz	-39.52 dBm	-26.52 dB
4	4	3.5840 GHz	3.5850 GHz	200.0 kHz	3.584950000 GHz	-33.80 dBm	-20.80 dB
5	5	3.5850 GHz	3.6000 GHz	200.0 kHz	3.585855000 GHz	22.05 dBm	-2.951 dB
6	6	3.6000 GHz	3.6010 GHz	200.0 kHz	3.600776667 GHz	-53.34 dBm	-40.34 dB
7	7	3.6010 GHz	3.6150 GHz	1.000 MHz	3.601280000 GHz	-47.10 dBm	-34.10 dB
8	8	3.6150 GHz	3.7200 GHz	1.000 MHz	3.615577500 GHz	-54.19 dBm	-29.19 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.739492500 GHz	-55.24 dBm	-15.24 dB

EDGE_4G_B42 (PART96)_.QPSK_15M _1RB@MAX_CH43165



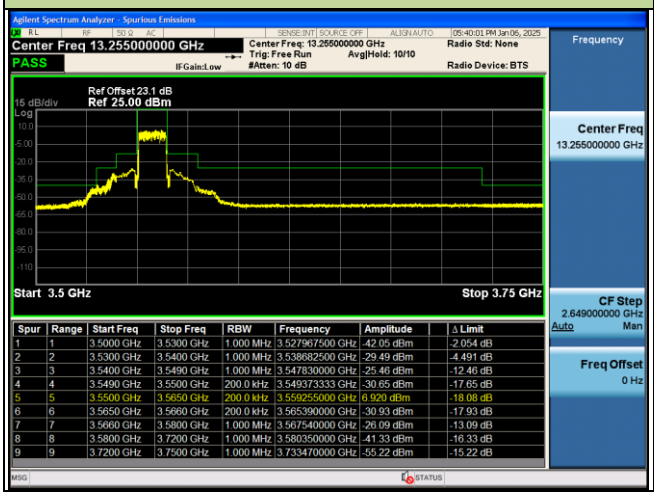
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.529107500 GHz	-54.92 dBm	-14.92 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.538820000 GHz	-50.12 dBm	-25.12 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548820000 GHz	-46.78 dBm	-33.78 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549007333 GHz	-52.30 dBm	-39.30 dB
5	5	3.5500 GHz	3.5650 GHz	200.0 kHz	3.564145000 GHz	19.58 dBm	-5.421 dB
6	6	3.5650 GHz	3.5660 GHz	200.0 kHz	3.565012667 GHz	-30.00 dBm	-17.00 dB
7	7	3.5660 GHz	3.5800 GHz	1.000 MHz	3.568100000 GHz	-39.47 dBm	-26.47 dB
8	8	3.5800 GHz	3.7200 GHz	1.000 MHz	3.583360000 GHz	-51.82 dBm	-26.82 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.749272500 GHz	-55.14 dBm	-15.14 dB

EDGE_4G_B42 (PART96)_.QPSK_15M _1RB@MAX_CH43515



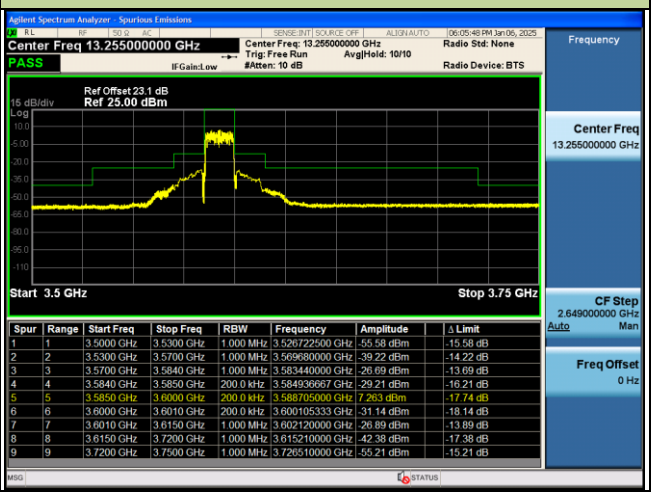
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.516237500 GHz	-55.75 dBm	-15.75 dB
2	2	3.5300 GHz	3.5700 GHz	1.000 MHz	3.568440000 GHz	-54.26 dBm	-29.26 dB
3	3	3.5700 GHz	3.5840 GHz	1.000 MHz	3.583580000 GHz	-46.47 dBm	-33.47 dB
4	4	3.5840 GHz	3.5850 GHz	200.0 kHz	3.584007333 GHz	-51.63 dBm	-38.63 dB
5	5	3.5850 GHz	3.6000 GHz	200.0 kHz	3.599141250 GHz	22.14 dBm	-2.863 dB
6	6	3.6000 GHz	3.6010 GHz	200.0 kHz	3.600069333 GHz	-33.57 dBm	-20.57 dB
7	7	3.6010 GHz	3.6150 GHz	1.000 MHz	3.602960000 GHz	-40.33 dBm	-27.33 dB
8	8	3.6150 GHz	3.7200 GHz	1.000 MHz	3.615840000 GHz	-50.65 dBm	-25.65 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.730620000 GHz	-55.17 dBm	-15.17 dB

EDGE_4G_B42 (PART96)_.QPSK_15M _FULL RB@0_CH43165



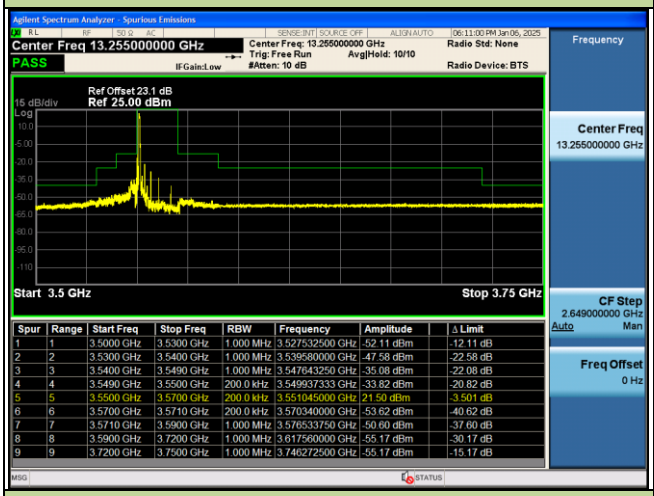
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.527967500 GHz	-42.05 dBm	-2.054 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.538682500 GHz	-29.49 dBm	-4.491 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.547830000 GHz	-25.46 dBm	-12.46 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549373333 GHz	-30.65 dBm	-17.65 dB
5	5	3.5500 GHz	3.5650 GHz	200.0 kHz	3.559255000 GHz	6.920 dBm	-18.08 dB
6	6	3.5650 GHz	3.5660 GHz	200.0 kHz	3.565390000 GHz	-30.93 dBm	-17.93 dB
7	7	3.5660 GHz	3.5800 GHz	1.000 MHz	3.567540000 GHz	-26.09 dBm	-13.09 dB
8	8	3.5800 GHz	3.7200 GHz	1.000 MHz	3.580350000 GHz	-41.33 dBm	-16.33 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.733470000 GHz	-55.22 dBm	-15.22 dB

EDGE_4G_B42 (PART96)_.QPSK_15M _FULL RB@0_CH43515



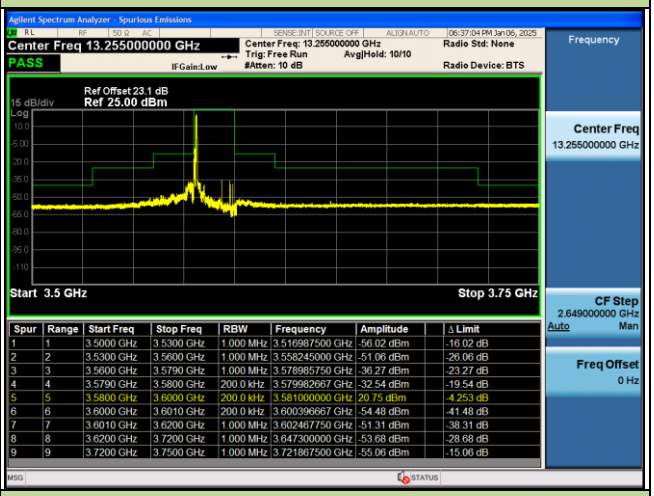
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.526722500 GHz	-55.58 dBm	-15.58 dB
2	2	3.5300 GHz	3.5700 GHz	1.000 MHz	3.569680000 GHz	-39.22 dBm	-14.22 dB
3	3	3.5700 GHz	3.5840 GHz	1.000 MHz	3.583440000 GHz	-26.69 dBm	-13.69 dB
4	4	3.5840 GHz	3.5850 GHz	200.0 kHz	3.584936667 GHz	-29.21 dBm	-16.21 dB
5	5	3.5850 GHz	3.6000 GHz	200.0 kHz	3.588705000 GHz	7.263 dBm	-17.74 dB
6	6	3.6000 GHz	3.6010 GHz	200.0 kHz	3.600105333 GHz	-31.14 dBm	-18.14 dB
7	7	3.6010 GHz	3.6150 GHz	1.000 MHz	3.602120000 GHz	-26.89 dBm	-13.89 dB
8	8	3.6150 GHz	3.7200 GHz	1.000 MHz	3.615210000 GHz	-42.38 dBm	-17.38 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.726510000 GHz	-55.21 dBm	-15.21 dB

EDGE_4G_B42 (PART96)_.QPSK_20M _1RB@0_CH43190



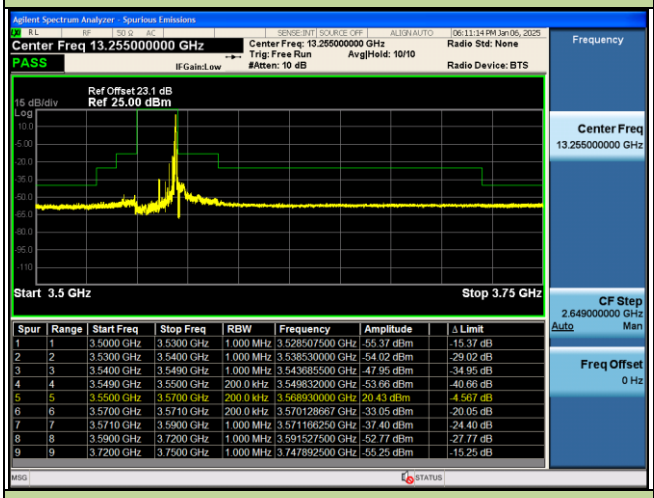
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.527532500 GHz	-52.11 dBm	-12.11 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539580000 GHz	-47.58 dBm	-22.58 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.547643250 GHz	-35.08 dBm	-22.08 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549937333 GHz	-33.82 dBm	-20.82 dB
5	5	3.5500 GHz	3.5700 GHz	200.0 kHz	3.551045000 GHz	21.50 dBm	-3.501 dB
6	6	3.5700 GHz	3.5710 GHz	200.0 kHz	3.570340000 GHz	-53.62 dBm	-40.62 dB
7	7	3.5710 GHz	3.5900 GHz	1.000 MHz	3.576533750 GHz	-50.60 dBm	-37.60 dB
8	8	3.5900 GHz	3.7200 GHz	1.000 MHz	3.617560000 GHz	-55.17 dBm	-30.17 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.746272500 GHz	-55.17 dBm	-15.17 dB

EDGE_4G_B42 (PART96)_.QPSK_20M _1RB@0_CH43490



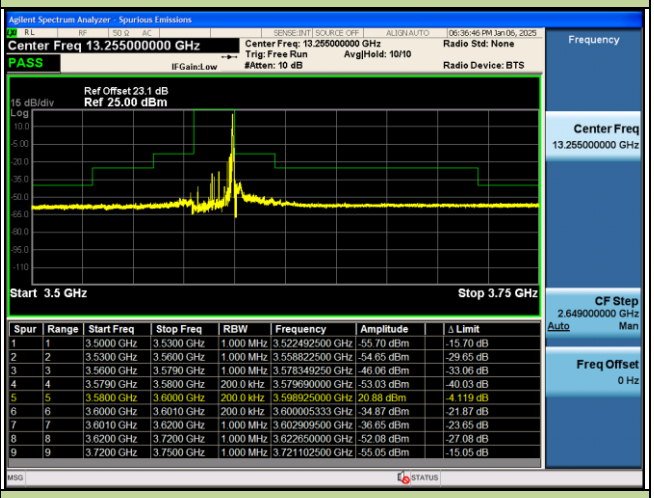
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.516985750 GHz	-56.02 dBm	-16.02 dB
2	2	3.5300 GHz	3.5600 GHz	1.000 MHz	3.558245000 GHz	-51.06 dBm	-26.06 dB
3	3	3.5600 GHz	3.5790 GHz	1.000 MHz	3.578985750 GHz	-36.27 dBm	-23.27 dB
4	4	3.5790 GHz	3.5800 GHz	200.0 kHz	3.579982667 GHz	-32.54 dBm	-19.54 dB
5	5	3.5800 GHz	3.6000 GHz	200.0 kHz	3.581000000 GHz	20.75 dBm	-4.253 dB
6	6	3.6000 GHz	3.6010 GHz	200.0 kHz	3.600396667 GHz	-54.48 dBm	-41.48 dB
7	7	3.6010 GHz	3.6200 GHz	1.000 MHz	3.602467750 GHz	-51.31 dBm	-38.31 dB
8	8	3.6200 GHz	3.7200 GHz	1.000 MHz	3.647300000 GHz	-53.68 dBm	-28.68 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.721867500 GHz	-55.06 dBm	-15.06 dB

EDGE_4G_B42 (PART96)_.QPSK_20M _1RB@MAX_CH43190



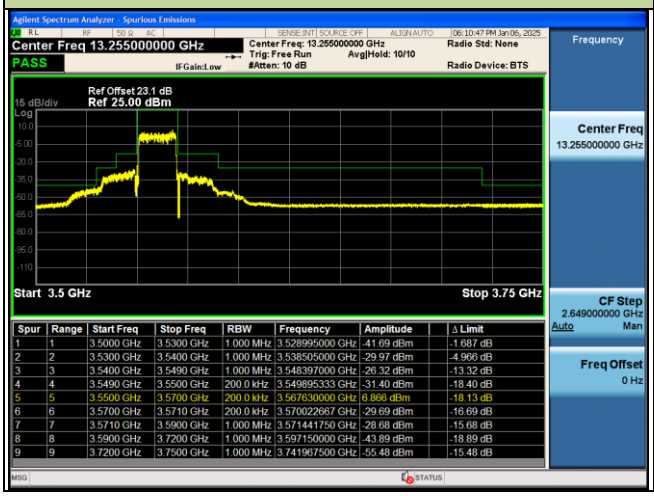
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528507500 GHz	-55.37 dBm	-15.37 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.538530000 GHz	-54.02 dBm	-29.02 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.543685500 GHz	-47.95 dBm	-34.95 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549832000 GHz	-53.66 dBm	-40.66 dB
5	5	3.5500 GHz	3.5700 GHz	200.0 kHz	3.568930000 GHz	20.43 dBm	-4.567 dB
6	6	3.5700 GHz	3.5710 GHz	200.0 kHz	3.570128667 GHz	-33.05 dBm	-20.05 dB
7	7	3.5710 GHz	3.5900 GHz	1.000 MHz	3.571166250 GHz	-37.40 dBm	-24.40 dB
8	8	3.5900 GHz	3.7200 GHz	1.000 MHz	3.591527500 GHz	-52.77 dBm	-27.77 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.747892500 GHz	-55.25 dBm	-15.25 dB

EDGE_4G_B42 (PART96)_.QPSK_20M _1RB@MAX_CH43490



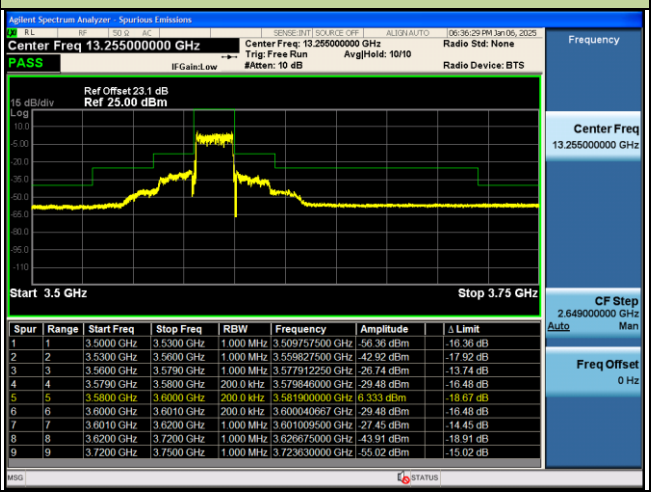
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.522492500 GHz	-55.70 dBm	-15.70 dB
2	2	3.5300 GHz	3.5600 GHz	1.000 MHz	3.558822500 GHz	-54.65 dBm	-29.65 dB
3	3	3.5600 GHz	3.5790 GHz	1.000 MHz	3.578349250 GHz	-46.06 dBm	-33.06 dB
4	4	3.5790 GHz	3.5800 GHz	200.0 kHz	3.579690000 GHz	-53.03 dBm	-40.03 dB
5	5	3.5800 GHz	3.6000 GHz	200.0 kHz	3.598925000 GHz	20.88 dBm	-4.119 dB
6	6	3.6000 GHz	3.6010 GHz	200.0 kHz	3.600005333 GHz	-34.87 dBm	-21.87 dB
7	7	3.6010 GHz	3.6200 GHz	1.000 MHz	3.602909500 GHz	-36.65 dBm	-23.65 dB
8	8	3.6200 GHz	3.7200 GHz	1.000 MHz	3.622650000 GHz	-52.08 dBm	-27.08 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.721102500 GHz	-55.05 dBm	-15.05 dB

EDGE_4G_B42 (PART96)_.QPSK_20M _FULL RB@0_CH43190



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528995000 GHz	-41.69 dBm	-1.687 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.538505000 GHz	-29.97 dBm	-4.966 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548397000 GHz	-26.32 dBm	-13.32 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549895333 GHz	-31.40 dBm	-18.40 dB
5	5	3.5500 GHz	3.5700 GHz	200.0 kHz	3.567630000 GHz	6.866 dBm	-18.13 dB
6	6	3.5700 GHz	3.5710 GHz	200.0 kHz	3.570022667 GHz	-29.69 dBm	-16.69 dB
7	7	3.5710 GHz	3.5900 GHz	1.000 MHz	3.571441750 GHz	-28.68 dBm	-15.68 dB
8	8	3.5900 GHz	3.7200 GHz	1.000 MHz	3.597150000 GHz	-43.89 dBm	-18.89 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.741967500 GHz	-55.48 dBm	-15.48 dB

EDGE_4G_B42 (PART96)_.QPSK_20M _FULL RB@0_CH43490

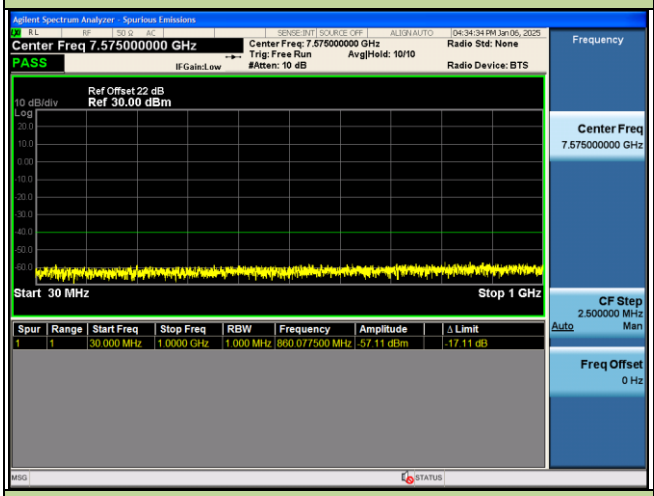


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.509757500 GHz	-56.36 dBm	-16.36 dB
2	2	3.5300 GHz	3.5600 GHz	1.000 MHz	3.559827500 GHz	-42.92 dBm	-17.92 dB
3	3	3.5600 GHz	3.5790 GHz	1.000 MHz	3.577912250 GHz	-26.74 dBm	-13.74 dB
4	4	3.5790 GHz	3.5800 GHz	200.0 kHz	3.579846000 GHz	-29.48 dBm	-16.48 dB
5	5	3.5800 GHz	3.6000 GHz	200.0 kHz	3.581900000 GHz	6.333 dBm	-18.67 dB
6	6	3.6000 GHz	3.6010 GHz	200.0 kHz	3.600040667 GHz	-29.48 dBm	-16.48 dB
7	7	3.6010 GHz	3.6200 GHz	1.000 MHz	3.601009500 GHz	-27.45 dBm	-14.45 dB
8	8	3.6200 GHz	3.7200 GHz	1.000 MHz	3.626675000 GHz	-43.91 dBm	-18.91 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.723630000 GHz	-55.02 dBm	-15.02 dB

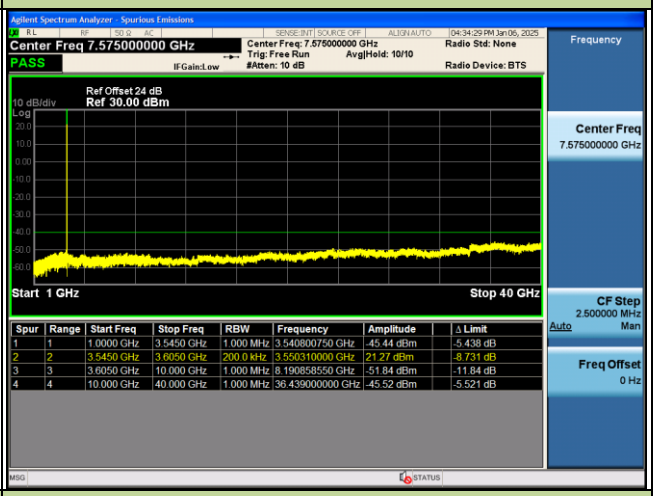
A6. Transmitter unwanted emissions (spurious) Test Result

A6.1 LTE B42 PC3 (3.55G~3.6G)

CSE_4G_B42 (PART96)_.QPSK_5M CH43115 1RB@0



CSE_4G_B42 (PART96)_.QPSK_5M CH43115 1RB@0_



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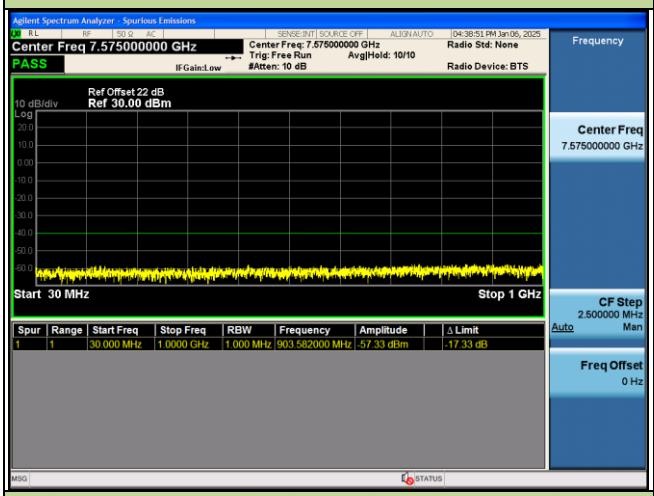

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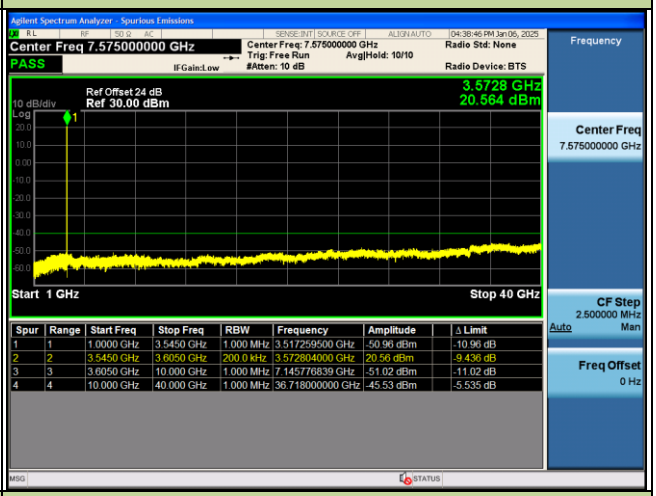
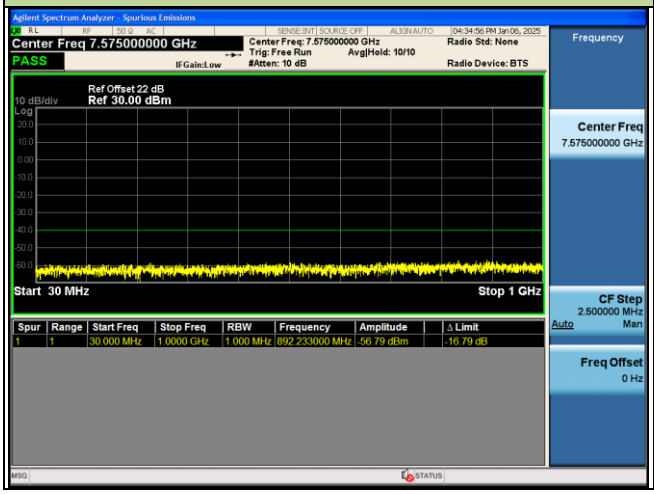


CSE_4G_B42 (PART96)_.QPSK_5M CH43565 1RB@0



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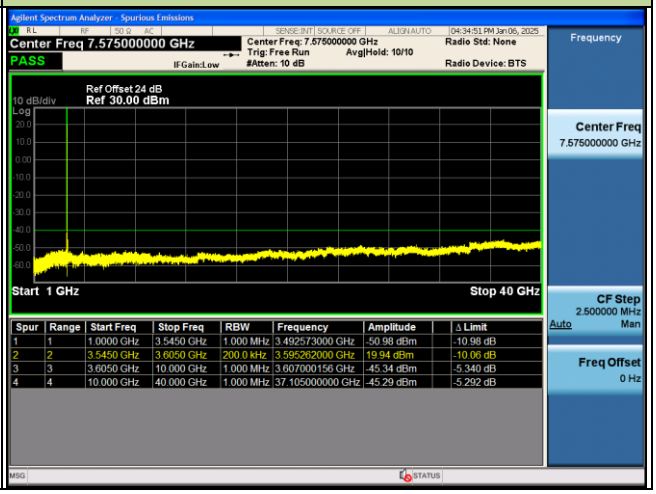

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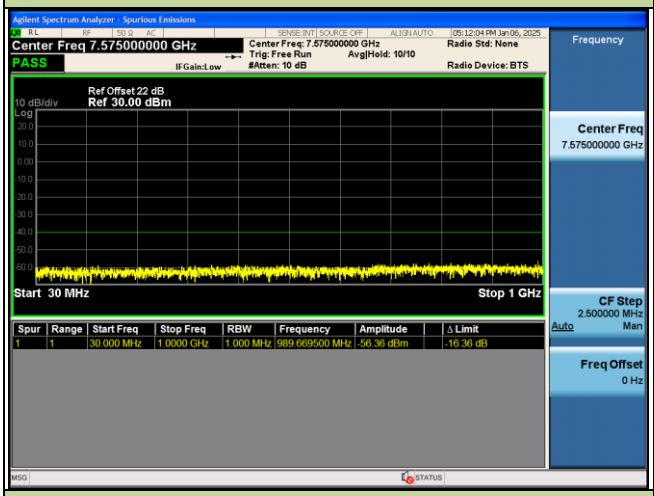

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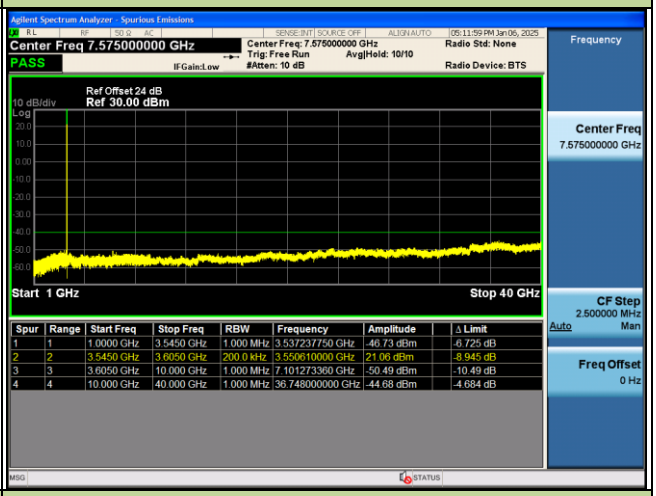

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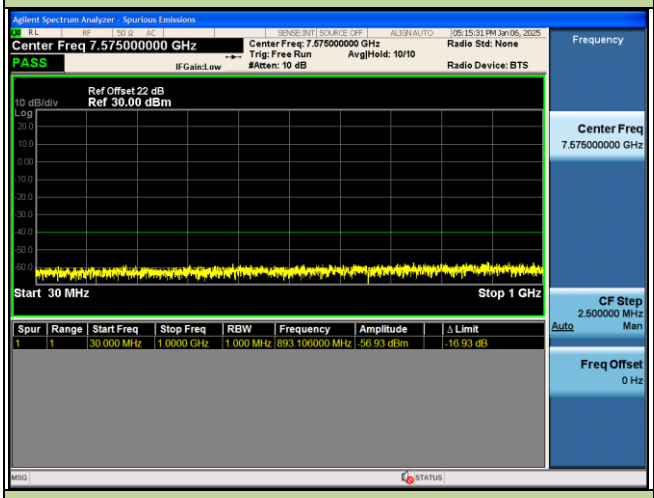

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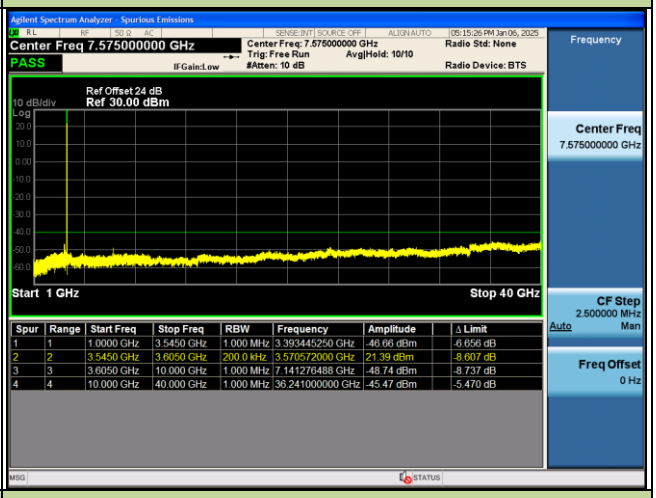

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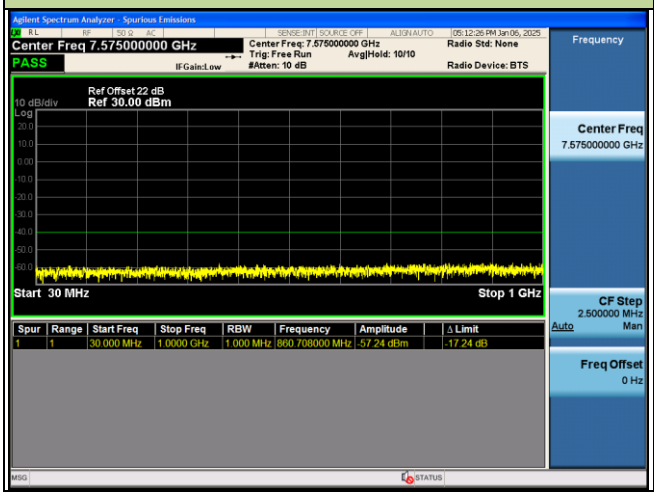

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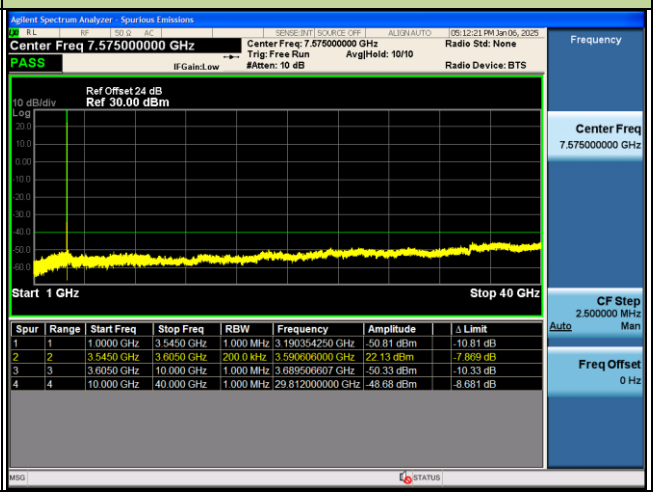

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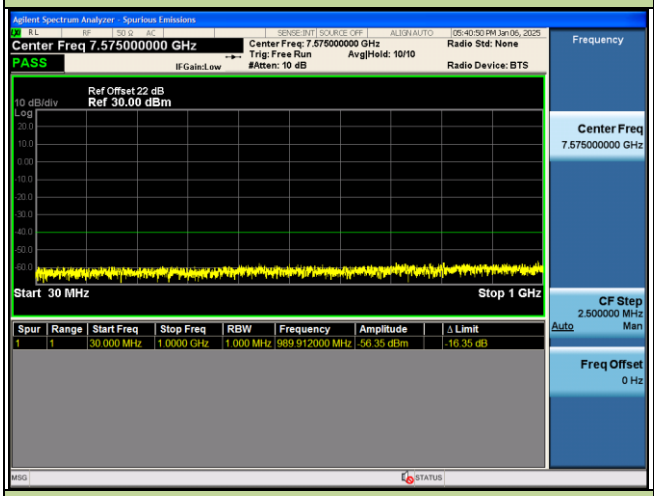

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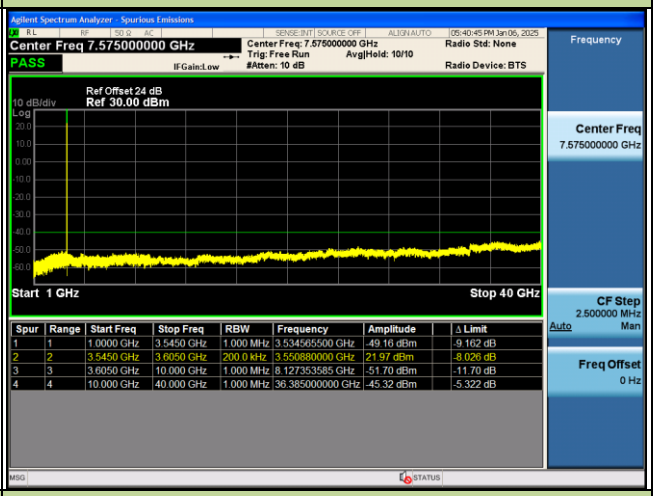

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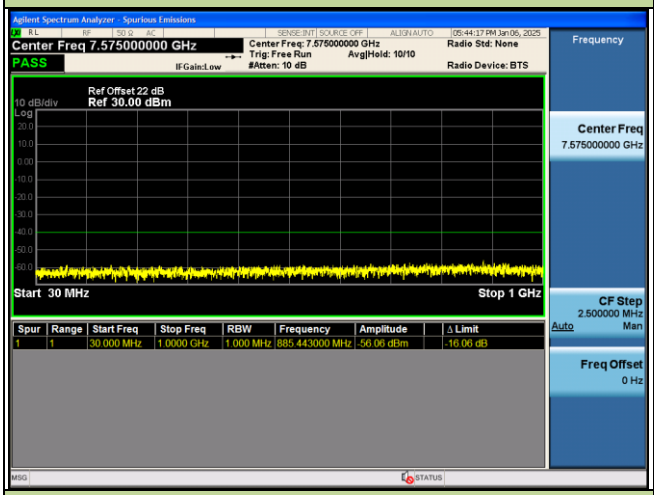

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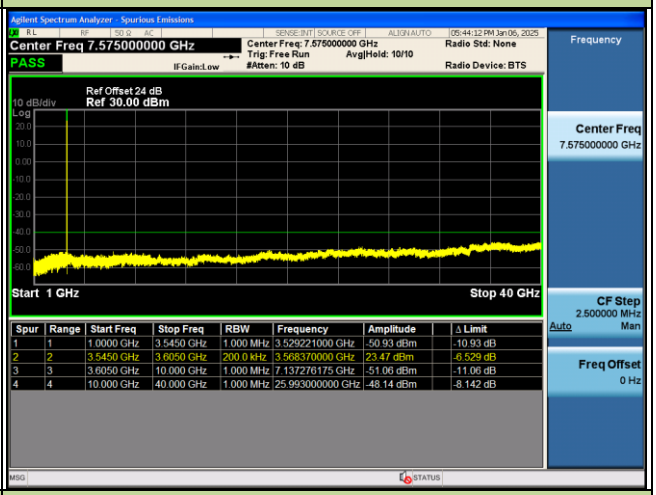

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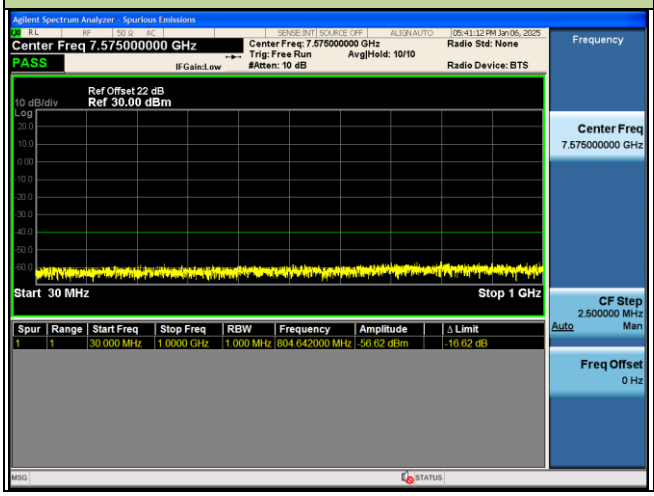
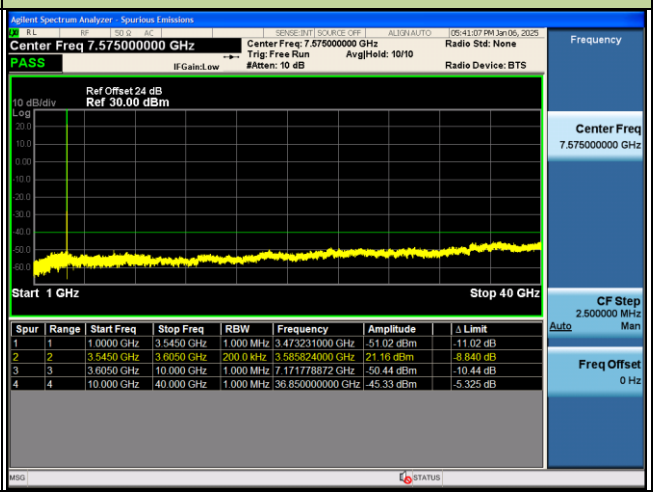
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