TEST REPORT

Report Number: 15556059-E1V2

Applicant		NOKIA CANADA INC. 600 MARCH RD OTTAWA, ON K2K 2T6, CANADA
Model	:	Nokia 7705 SAR-Hmc
FCC ID	:	AS57705SARHMC-3
Contain FCC ID	:	N7NEM75T
EUT Description	:	REMOTE RADIO BASE STATION
Test Standard(s)	:	FCC 47 CFR PART 2, PART 96

Date Of Issue:
2025-04-22

Prepared by:
UL Verification Services Inc.
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ACCREDITED
CERT #0751.05

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-01-13	Initial Review	
V2	2025-04-22	Updated Section 10	Kiya Kedida

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	NOKIA CANADA INC. 600 MARCH RD OTTAWA, ON K2K 2T6, CANADA
Model	Nokia 7705 SAR-Hmc
FCC ID	AS57705SARHMC-3
EUT Description	REMOTE RADIO BASE STATION
Serial Number	GRM1-02-028
Sample Receipt Date	2024-11-12
Date Tested	2024-11-14 to 2024-12-18
Applicable Standards	FCC 47 CFR PART 2, PART 96
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc.and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc.will constitute fraud and shall nullify the document.

Approved & Released By:	Reviewed By:	Prepared By:
		
Dan Coronia Operations Leader UL Verification Services Inc.	Kiya Kedida Lead Project Engineer UL Verification Services Inc.	Peter Vu Laboratory Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by Verification Services Inc.
Below is a list of the data provided by the customer:

1. Antenna gain (see section 6.2)

Requirement Description	Band	Requirement Clause Number (FCC)	Result*	Remarks
Equivalent Isotropic Radiated Power and Power Spectral Density	48	96.41 (b)	Compiles	

Requirement Description	Requirement Clause Number (FCC)	Result*	Remarks
Occupied Bandwidth	2.1049	Compiles	
Band Edge and Emission Mask	96.41(e)	Compiles	
Out of Band Emissions	96.41(e)	Compiles	
Frequency Stability	2.1055	Compiles	
Peak-to-Average Ratio	96.41 (g)	Compiles	
Field Strength of Spurious Radiation	2.1053, 96.41(e)	Compiles	

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

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

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA	
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. 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.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Conducted Antenna Port Emission Measurement	1.940 db
Power Spectral Density	2.466 db
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	1.300 db Peak 0.450 db Ave.
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 db
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 db
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 db
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 db
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 db
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 db
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 db

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a remote radio base station.

6.1. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE
ANSI C63.26:2015
KDB 971168 D01 Section 5.6

ERP/EIRP = PMeas + GT − LC
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

LTE BAND 48 Category A

Part 96	
EIRP Limit (dBm)/ 10MHz	30.00
Antenna Gain (dBi)	7.00

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	3552.5	3697.5	21.90	28.90	0.776	4910	4M91G7W
	16QAM			21.00	28.00	0.631	4466	4M47D7W
10.0	QPSK	3555.0	3695.0	22.00	29.00	0.794	8980	8M98G7W
	16QAM			21.10	28.10	0.646	8983	8M98D7W
15.0	QPSK	3557.5	3692.5	22.00	29.00	0.794	13437	13M4G7W
	16QAM			21.00	28.00	0.631	13481	13M5D7W
20.0	QPSK	3560.0	3690.0	22.00	29.00	0.794	17897	17M9G7W
	16QAM			21.00	28.00	0.631	17819	17M8D7W

LTE BAND 48 Category B

Part 96	
EIRP Limit (dBm)/ 10MHz	47.00
Antenna Gain (dBi)	24.00

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	3552.5	3697.5	21.90	45.90	38.905	4910	4M91G7W
	16QAM			21.00	45.00	31.623	4466	4M47D7W
10.0	QPSK	3555.0	3695.0	22.00	46.00	39.811	8980	8M98G7W
	16QAM			21.10	45.10	32.359	8983	8M98D7W
15.0	QPSK	3557.5	3692.5	22.00	46.00	39.811	13437	13M4G7W
	16QAM			21.00	45.00	31.623	13481	13M5D7W
20.0	QPSK	3560.0	3690.0	22.00	46.00	39.811	17897	17M9G7W
	16QAM			21.00	45.00	31.623	17819	17M8D7W

6.2. MAXIMUM ANTENNA GAIN

The antenna(s) gain, as provided by the manufacturer' are as follows:

LTE Band	Frequency Range (MHz)	Category A(dBi)	Category B(dBi)
LTE Band 48	3550 – 3700	7	24

6.4. WORST-CASE CONFIGURATION AND MODE

The EUT supports the following LTE Band 48.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK were observed as the worst mode to LTE bands and set for all conducted and radiated test. Output power measurements were measured on QPSK ,16QAM and 64QAM modulations. For testing purposes emissions on sections 9 and 10 were measured while QPSK was set.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y, & Z. It was determined that X orientation was the worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation

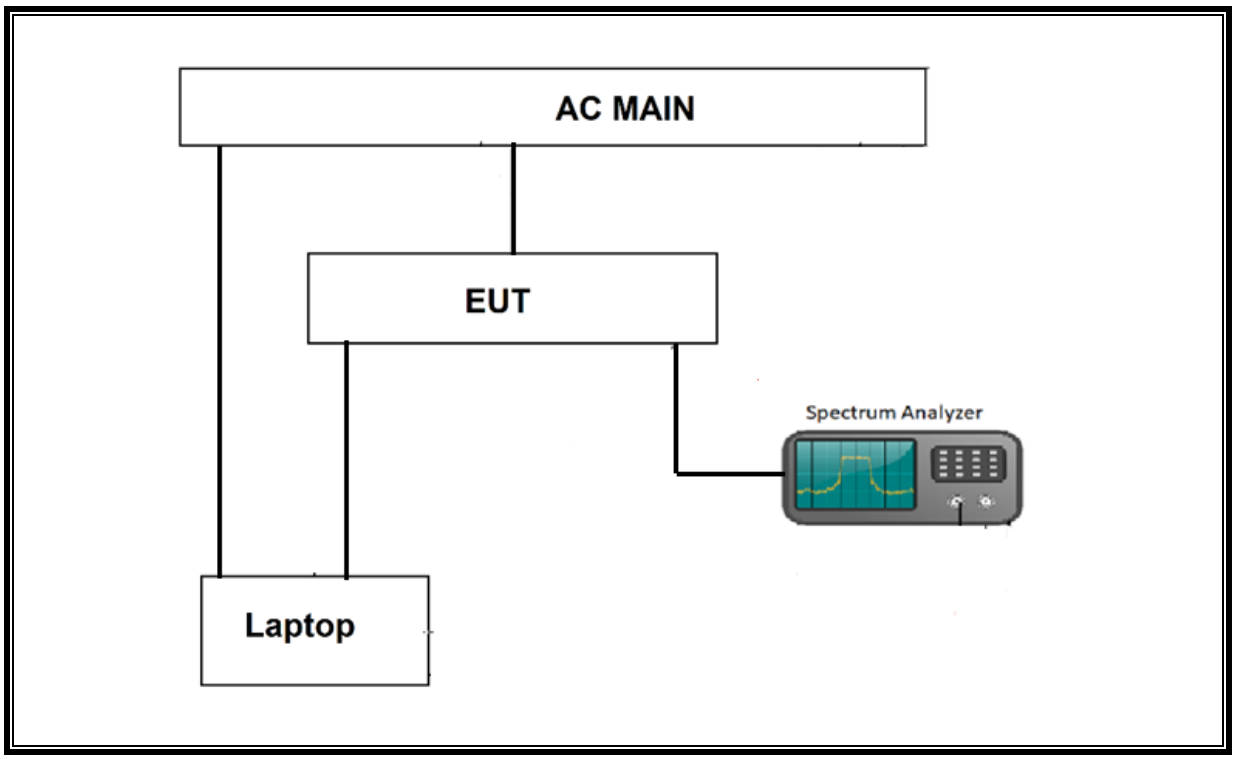
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz.

6.5. DESCRIPTION OF TEST SETUP

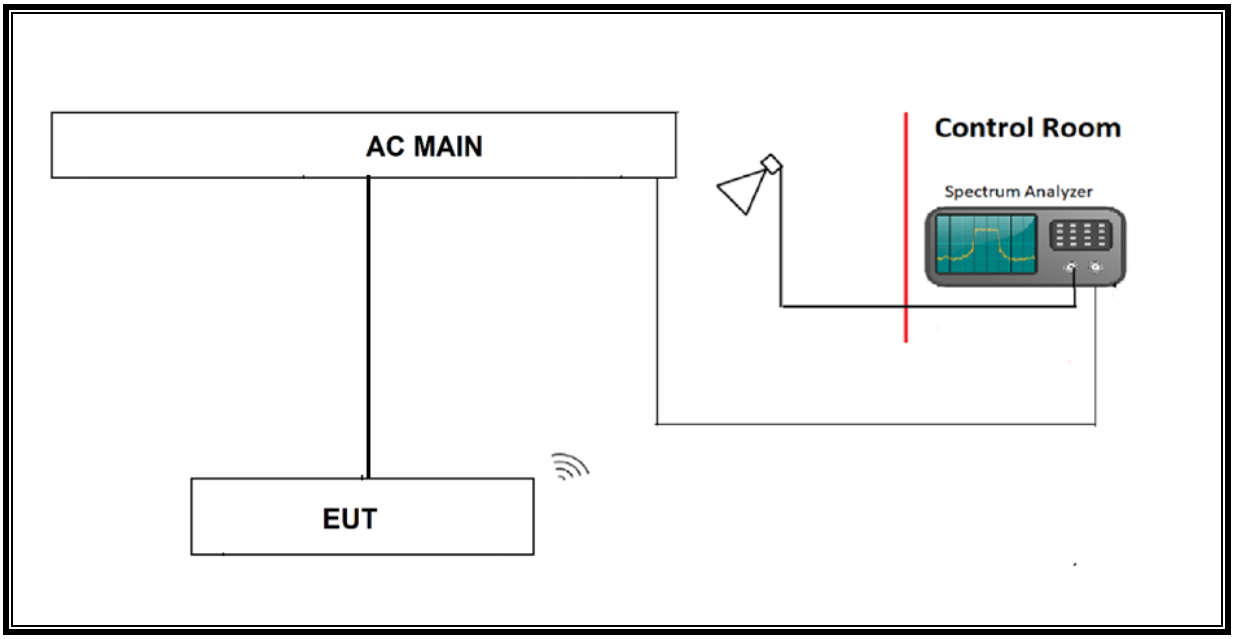
SUPPORT TEST EQUIPMENT				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID/ DoC**
Laptop	Lenovo	T460s	PC0JMBF8	Doc
Laptop AC/DC Adapter	Lenovo	ADLX65YLC2A	8SSA10M13548L1CZ85M00Y6	Doc

I/O CABLES (RF CONDUCTED TEST)					
Port	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
SMA Cable	1	SMA	Un-Shielded	1.0	EUT to Spectrum Analyzer
Ethernet	2	RJ45	Un-shielded	1.5	EUT to Laptop
I/O CABLES (RF RADIATED TEST)					
Port	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
RF In/Out	1	Antenna	Un-shielded	5.0	N/A

CONDUCTED SETUP



RADIATED SETUP



7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Asset**	**Cal Due**
Antenna, Horn 1-18GHz	ETS Lindgren	3117	79834	2025-06-30
Antenna, Broadband Hybrid, 30MHz to 3000MHz	SUNAR	JB3	222009	2025-10-31
RF Filter Box, 1-18GHz	UL-FR1	RATS 2	226781	2025-09-30
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	430250	2025-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2025-02-28
Directional Coupler	KRYTAR	152610	231664	2025-01-22
Filter, BRF 3.4 – 3.8GHz	Micro-Tronics	BRM50711-02	208398	2025-10-31
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	231739	2025-01-31
Chamber, Environmental	Thermotron Corp.	SM-16C Mini-Max	179936	2025-06-30
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199659	2024-12-31
Amplifier 18-26.5GHz, +5Vdc, -54dBm P1dB	AMPLICAL	AMP18G26.5-60	234683	2025-06-29
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	V2023.11.21.0	
Power Measurement Software	UL	UL RF	V2023.08.14.0	
Radiated test software	UL	UL RF	Ver 9.5 2023-05-01	

NOTES:

1. * Testing is completed before the equipment expiration date.

8. RF OUTPUT POWER MEASUREMENT

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.

The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULTS

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted output powers as follows:

8.1. LTE BAND 48

LTE BAND 48

Test Engineer ID:	27966 PV	Test Date:	2024-12-12

OUTPUT POWER FOR LTE BAND 48

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				55265	55990	56715
				3552.5	3625.0	3697.5
5.0	QPSK	25	0	**21.9**	21.9	21.7
	16QAM	25	0	**21.0**	21.0	20.8
	64QAM	25	0	20.0	20.0	19.8
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				55290	55990	56690
				3555.0	3625.0	3695.0
10.0	QPSK	50	0	**22.0**	22.0	21.8
	16QAM	50	0	**21.1**	21.0	20.8
	64QAM	50	0	20.0	20.0	19.8
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				55315	55990	56665
				3557.5	3625.0	3692.5
15.0	QPSK	75	0	**22.0**	21.9	21.7
	16QAM	75	0	**21.0**	21.0	20.8
	64QAM	75	0	20.0	19.9	19.7
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				55340	55990	56640
				3560.0	3625.0	3690.0
20.0	QPSK	100	0	**22.0**	22.0	21.7
	16QAM	100	0	**21.0**	21.0	20.8
	64QAM	100	0	20.0	20.0	19.8

NOTE: Category A and B conducted output power are the same.

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

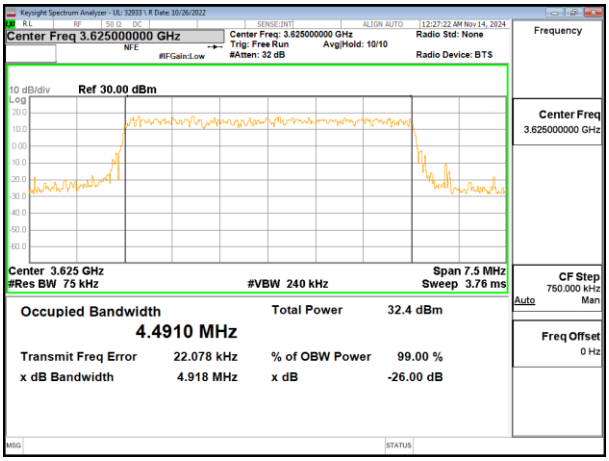
RESULTS

LTE BAND 48

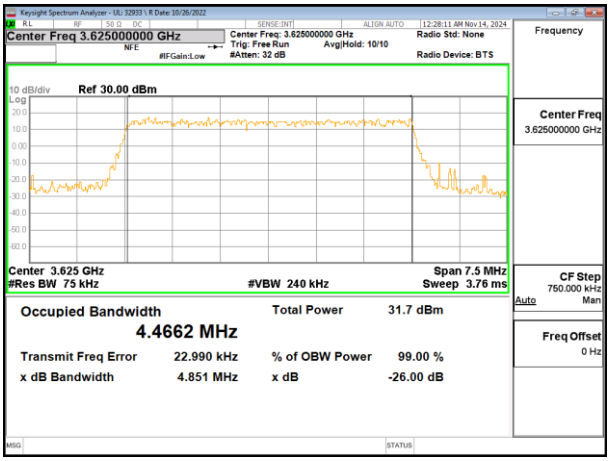
Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 48	5MHz, QPSK	25/0	3625.0	4.4910	4.918
	5MHz, 16QAM			4.4662	4.851
	10MHz, QPSK	50/0		8.9799	9.560
	10MHz, 16QAM			8.9827	9.552
	15MHz, QPSK	75/0		13.437	13.99
	15MHz, 16QAM			13.481	14.39
	20MHz, QPSK	100/0		17.897	19.18
	20MHz, 16QAM			17.819	18.79

9.1.1. LTE BAND 48

LTE BAND 48



LTE B48 5MHz QPSK Middle Channel RB25-0, ID:



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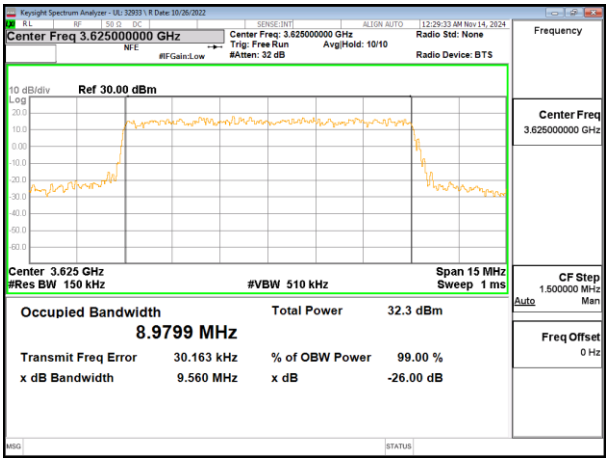

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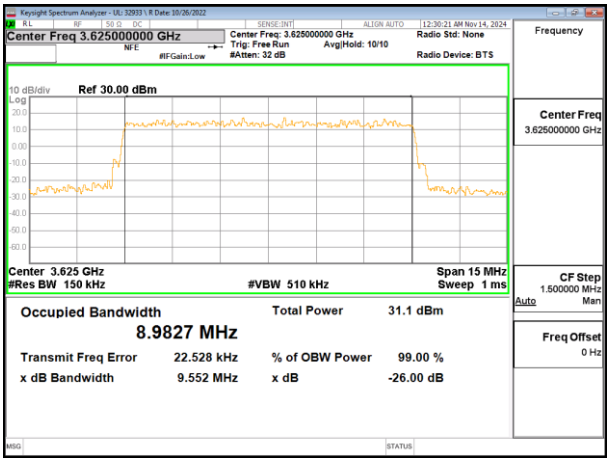

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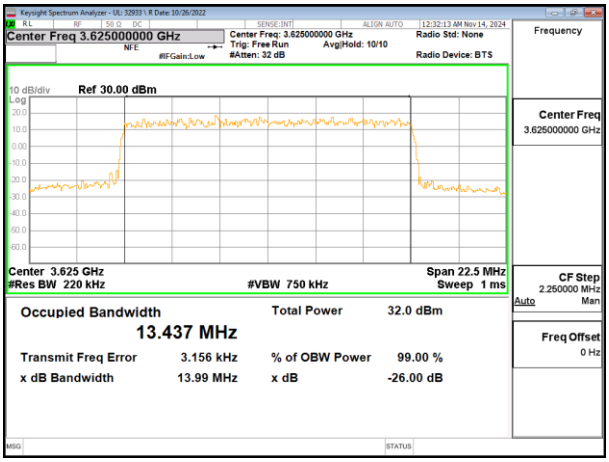

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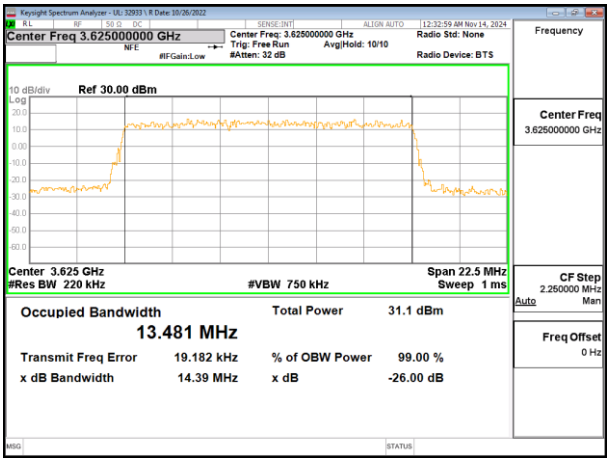

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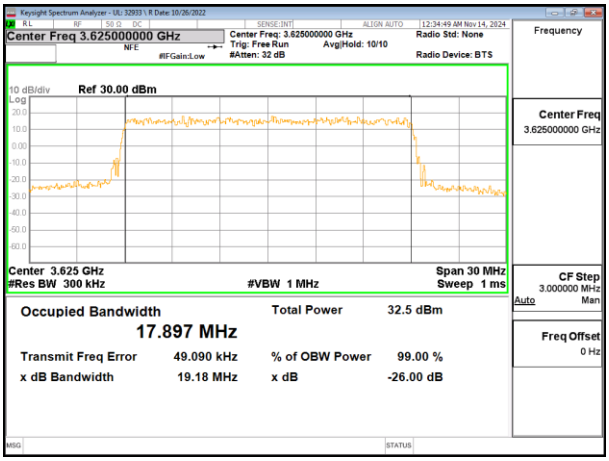

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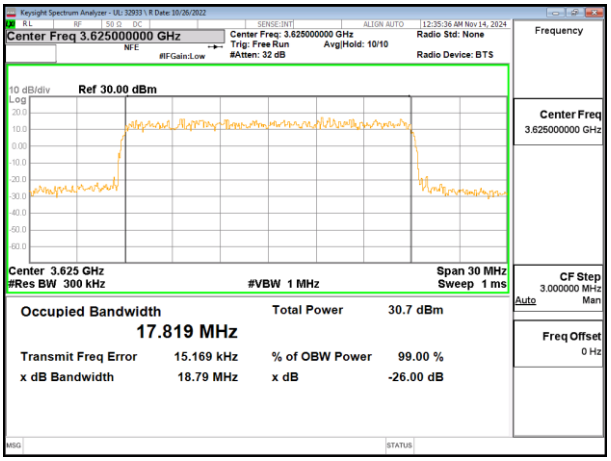


LTE B48 20MHz 16QAM Middle Channel RB100-0, ID:

9.2. POWER SPECTRAL DENSITY

LIMITS

FCC: §96.41

(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table below:

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD[1]	47	37

TEST PROCEDURE

Maximum PSD—The rules require “maximum power spectral density” measurements, where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission. To perform this measurement, the DUT must be configured to transmit continuously at full power. The procedure in Section 5.2 of ANSI C63.26-2015 is acceptable

RESULTS

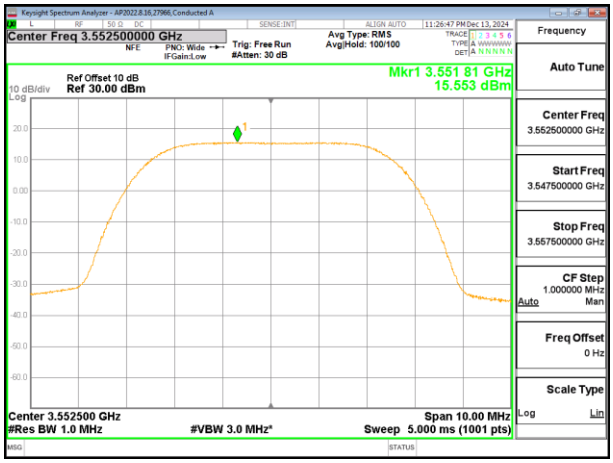
LTE BAND 48 Category A

Band	BW (MHz)	Mode	Frq(MHz)	PSD (dBm)	Limit(dBm)	Delta(dBm)
LTE 48	5	QPSK	3552.5	15.553	20	-4.447
			3625	15.532	20	-4.468
			3697.5	15.347	20	-4.653
		16QAM	3552.5	14.522	20	-5.478
			3625	14.279	20	-5.721
			3697.5	14.398	20	-5.602
	10	QPSK	3555	12.528	20	-7.472
			3625	12.259	20	-7.741
			3695	12.728	20	-7.272
		16QAM	3555	11.585	20	-8.415
			3625	11.133	20	-8.867
			3695	11.583	20	-8.417
	15	QPSK	3557.5	10.794	20	-9.206
			3625	10.501	20	-9.499
			3692.5	10.340	20	-9.66
		16QAM	3557.5	9.691	20	-10.309
			3625	10.374	20	-9.626
			3692.5	9.451	20	-10.549
	20	QPSK	3560	9.514	20	-10.486
			3625	10.078	20	-9.922
			3690	10.080	20	-9.92
		16QAM	3560	8.363	20	-11.637
			3625	8.871	20	-11.129
			3690	8.874	20	-11.126

LTE BAND 48 Category B

Band	BW (MHz)	Mode	Frq(MHz)	PSD (dBm)	Limit(dBm)	Delta(dBm)
LTE 48	5	QPSK	3552.5	15.553	37	-21.447
			3625	15.532	37	-21.468
			3697.5	15.347	37	-21.653
		16QAM	3552.5	14.522	37	-22.478
			3625	14.279	37	-22.721
			3697.5	14.398	37	-22.602
	10	QPSK	3555	12.528	37	-24.472
			3625	12.259	37	-24.741
			3695	12.728	37	-24.272
		16QAM	3555	11.585	37	-25.415
			3625	11.133	37	-25.867
			3695	11.583	37	-25.417
	15	QPSK	3557.5	10.794	37	-26.206
			3625	10.501	37	-26.499
			3692.5	10.340	37	-26.66
		16QAM	3557.5	9.691	37	-27.309
			3625	10.374	37	-26.626
			3692.5	9.451	37	-27.549
	20	QPSK	3560	9.514	37	-27.486
			3625	10.078	37	-26.922
			3690	10.080	37	-26.92
		16QAM	3560	8.363	37	-28.637
			3625	8.871	37	-28.129
			3690	8.874	37	-28.126

9.2.1. LTE BAND 48



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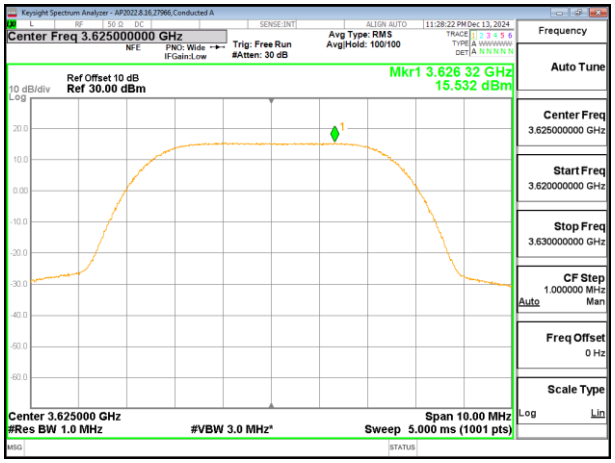

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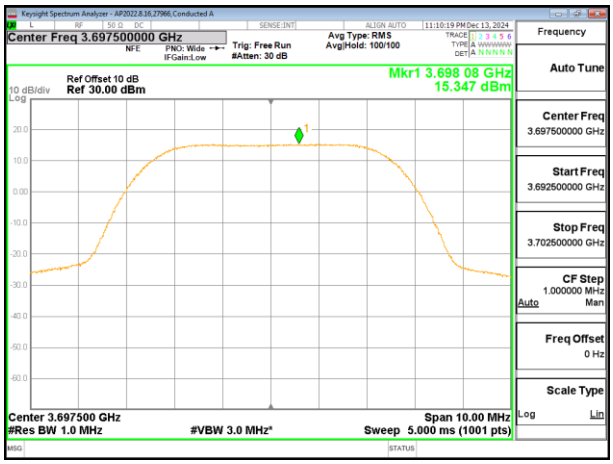

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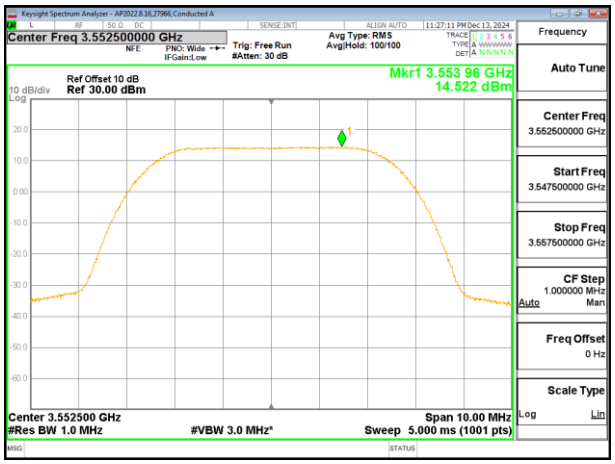

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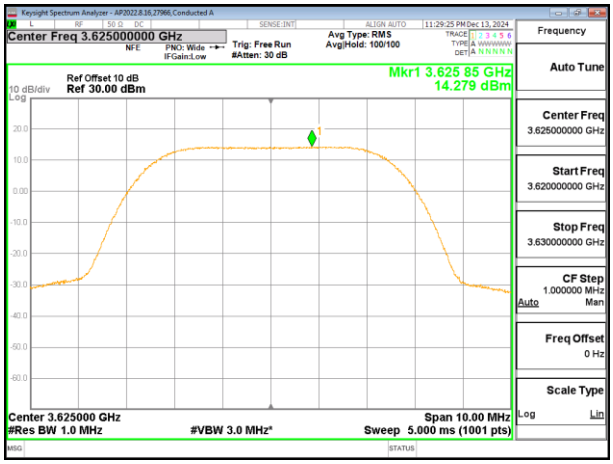

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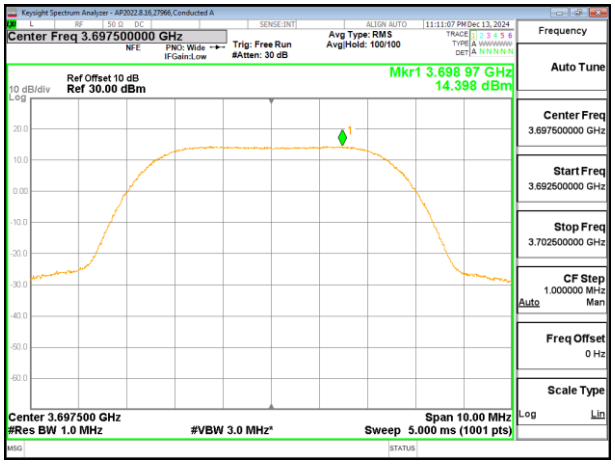

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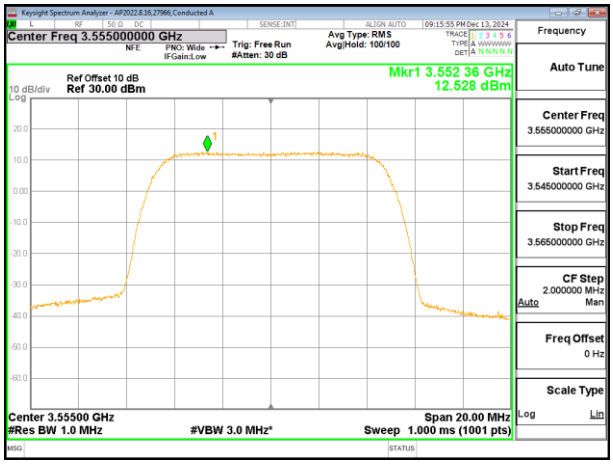

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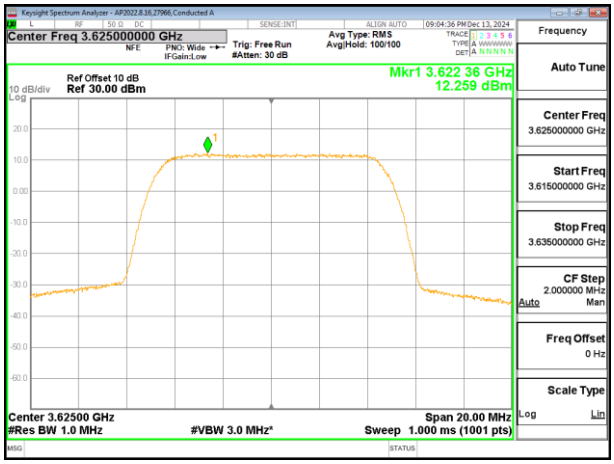

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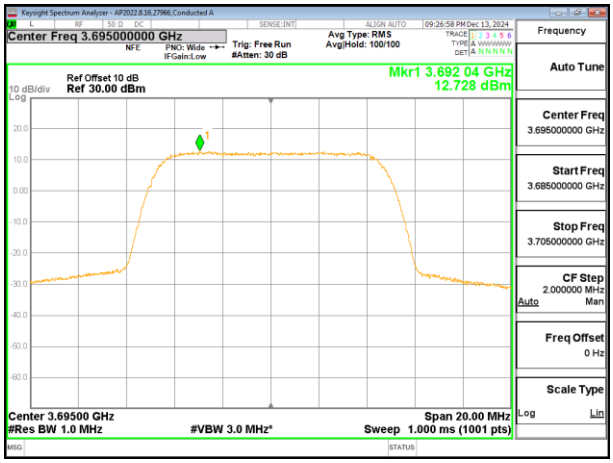

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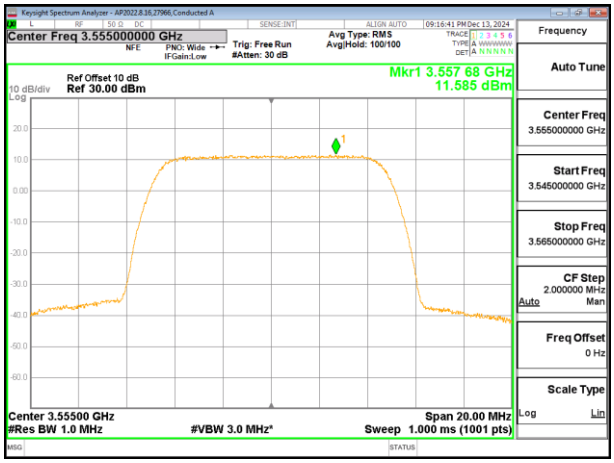

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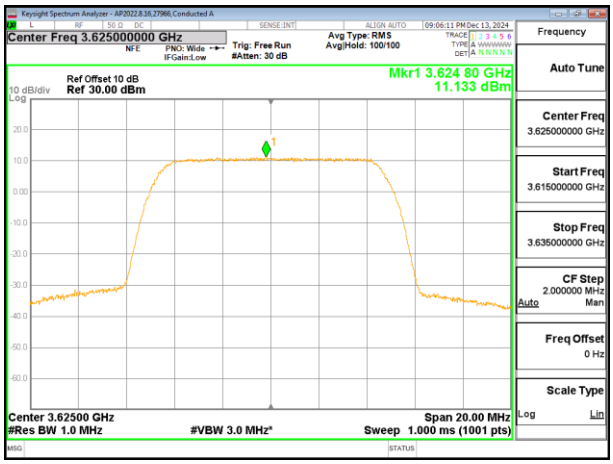

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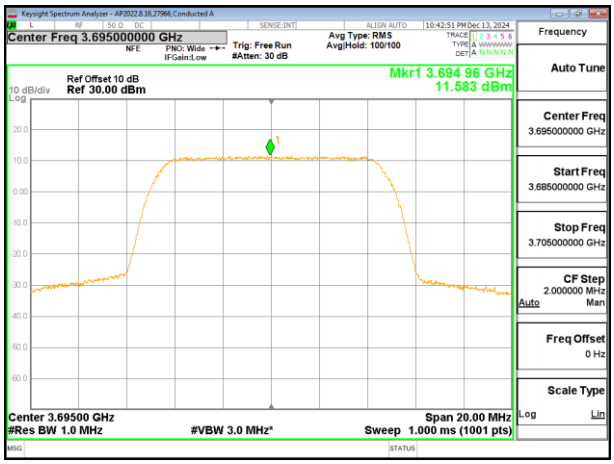

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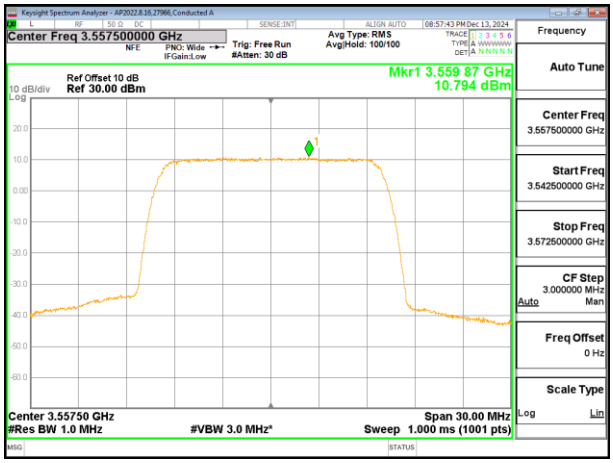

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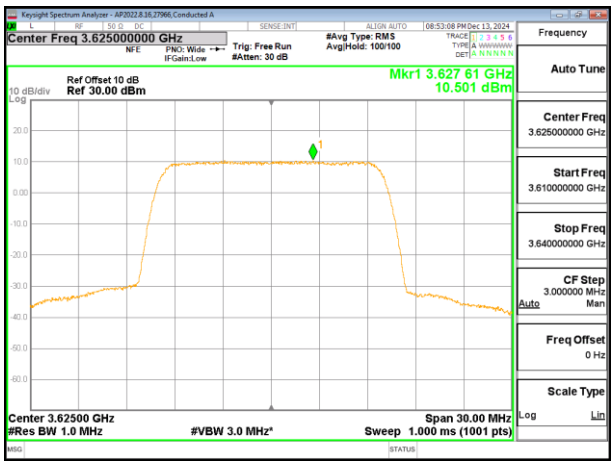

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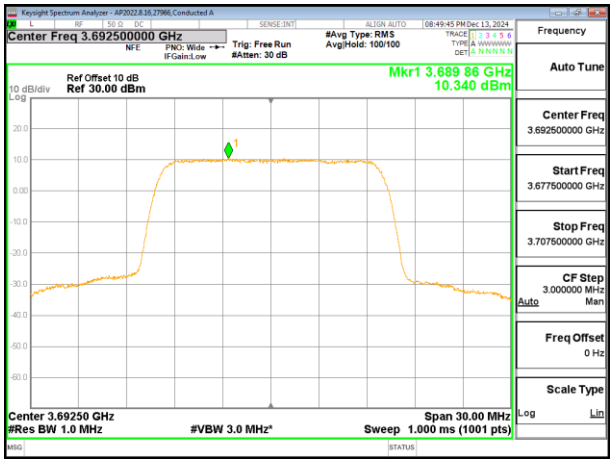

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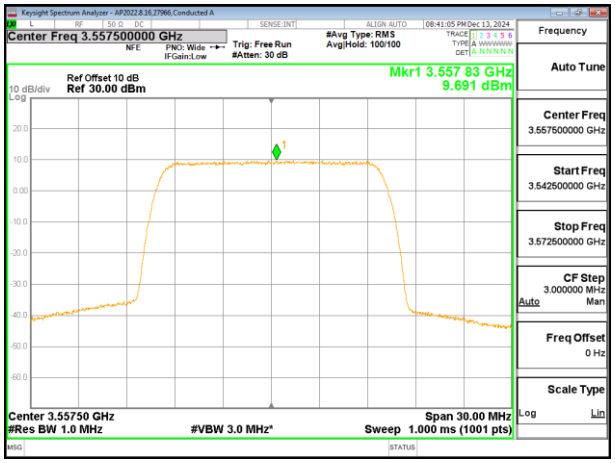

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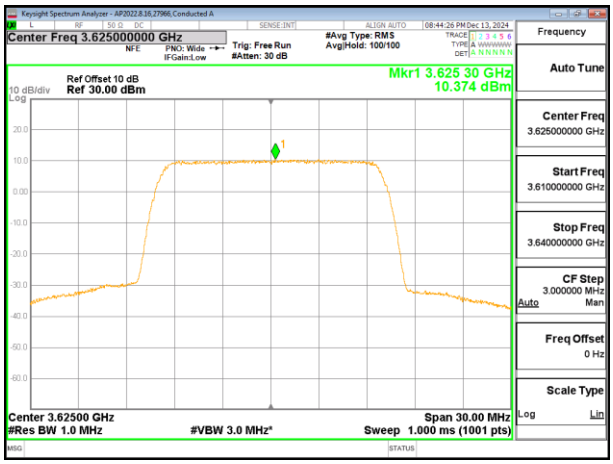

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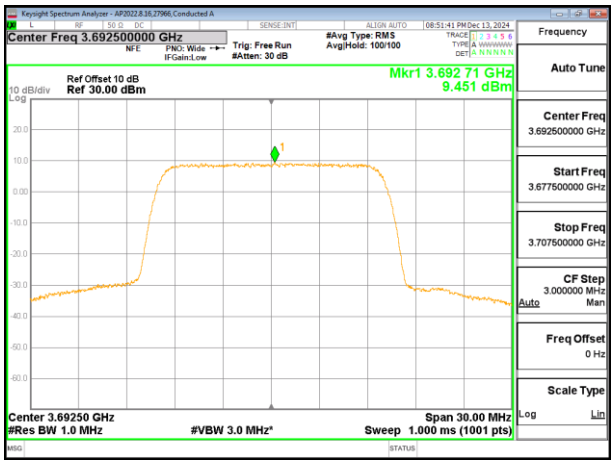

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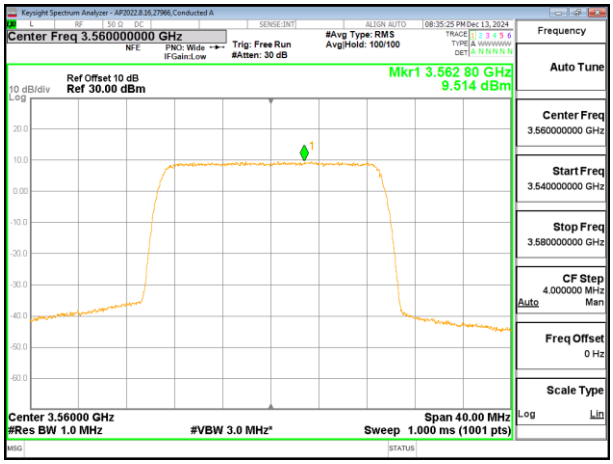

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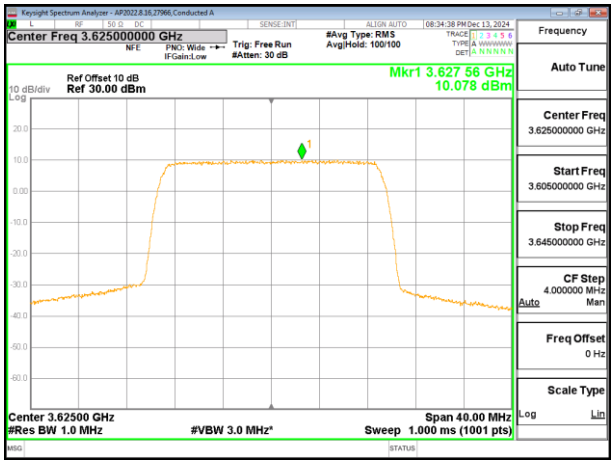

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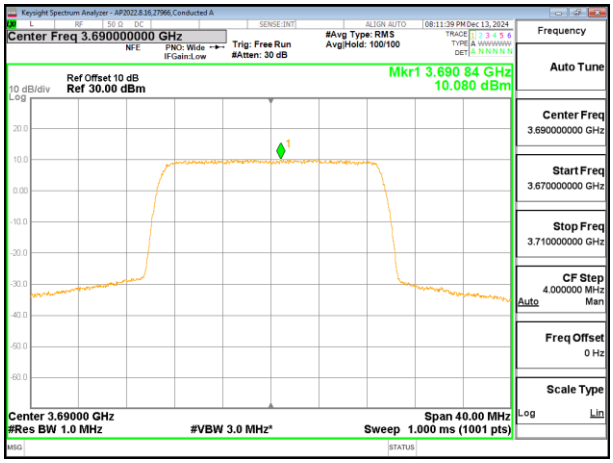

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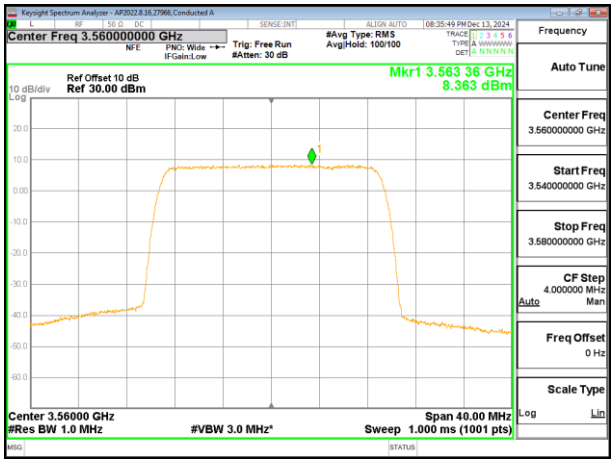

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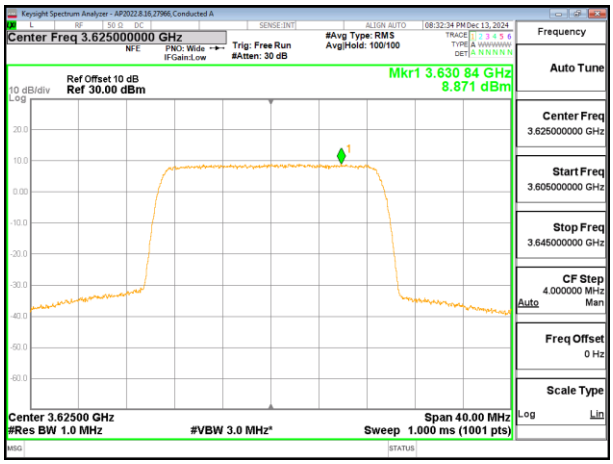

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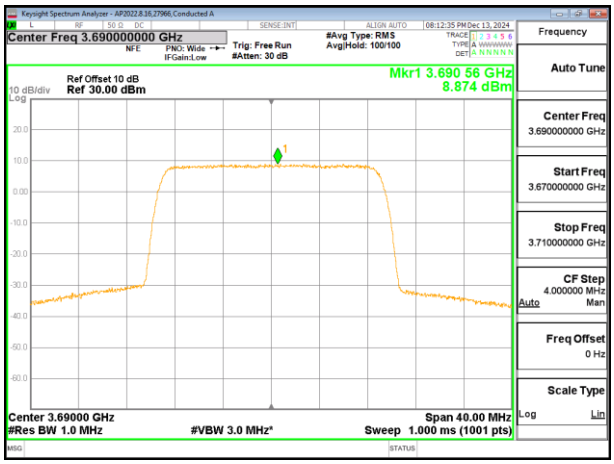


LTE B48 20MHz 16QAM High Channel RB100-0, ID:

9.3. EMISSION MASK

LIMITS

FCC: §96.41
(e) 3.5 GHz Emissions and Interference Limits—
(1) General protection levels
(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth 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 reference bandwidth (i.e., 1 MHz 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.

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, 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.

TEST PROCEDURE

For Spectrum Emission Mask plots, the Keysight PXA N9030A is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

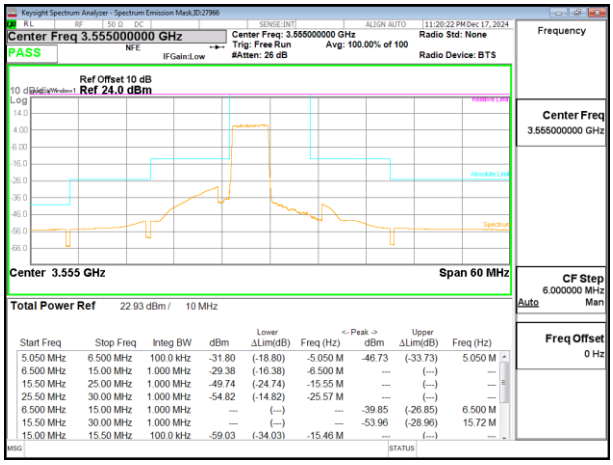
The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

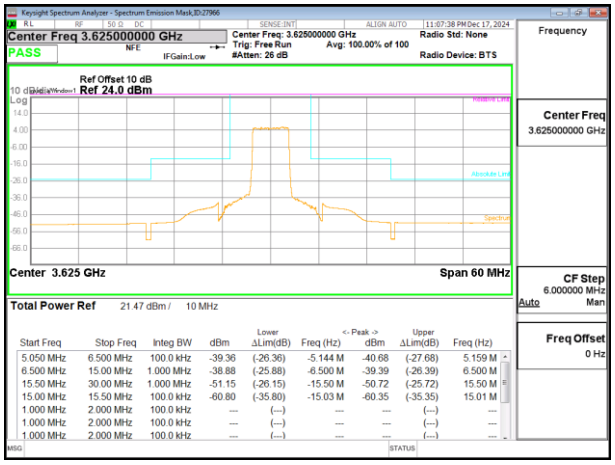
RESULTS

9.3.1. LTE BAND 48

LTE BAND 48 EMISSION MASK (FCC)



LTE B48 5MHz QPSK Low Channel RB25-0, ID:



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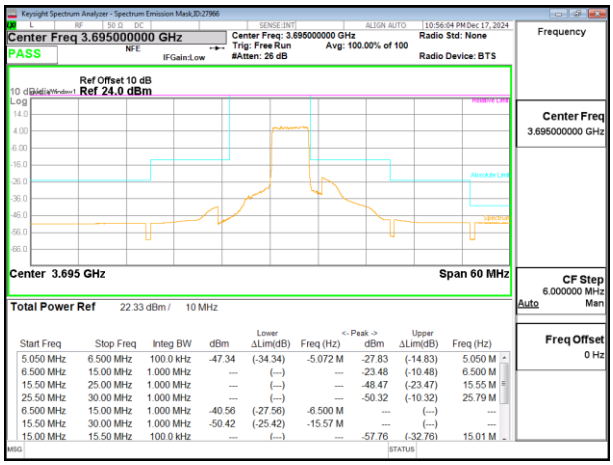

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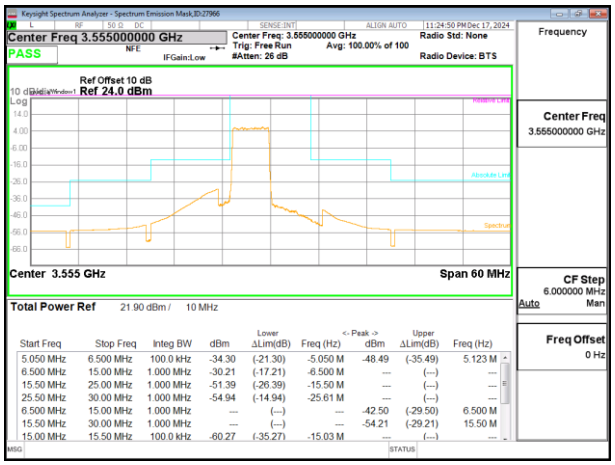

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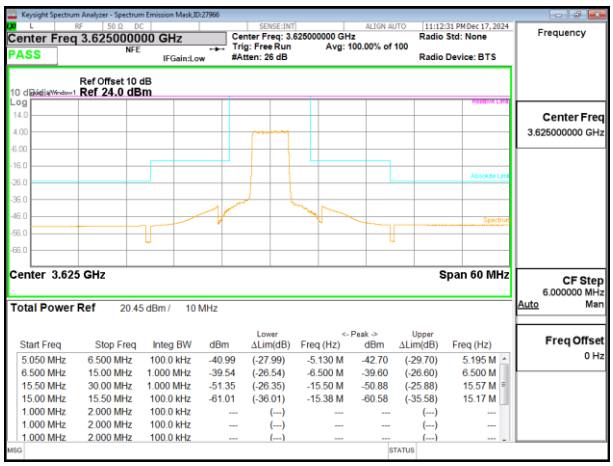

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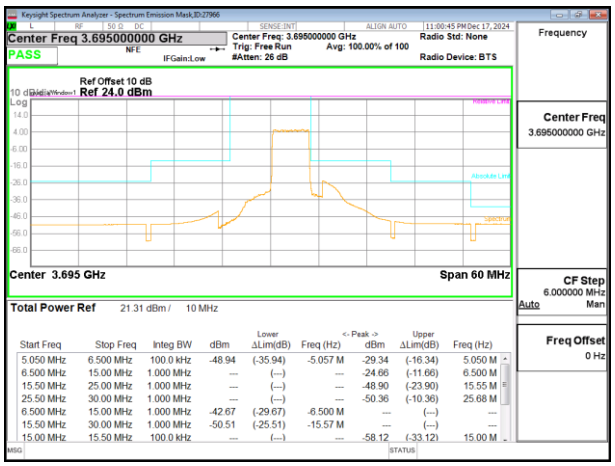

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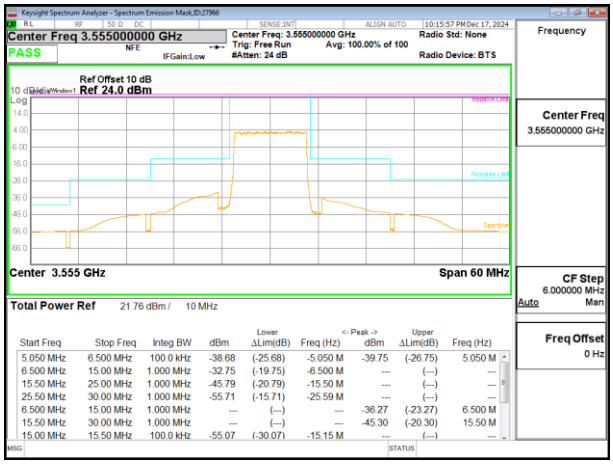

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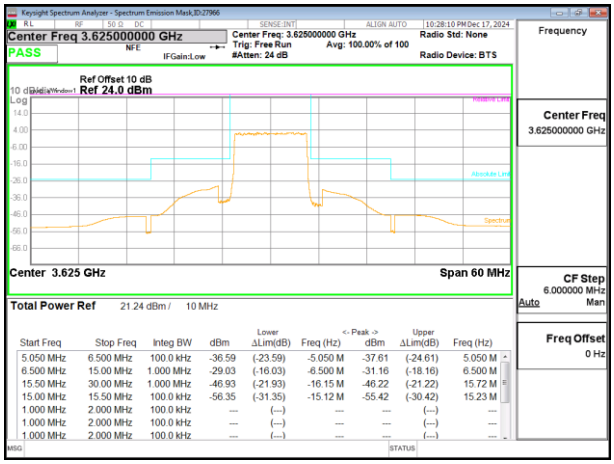

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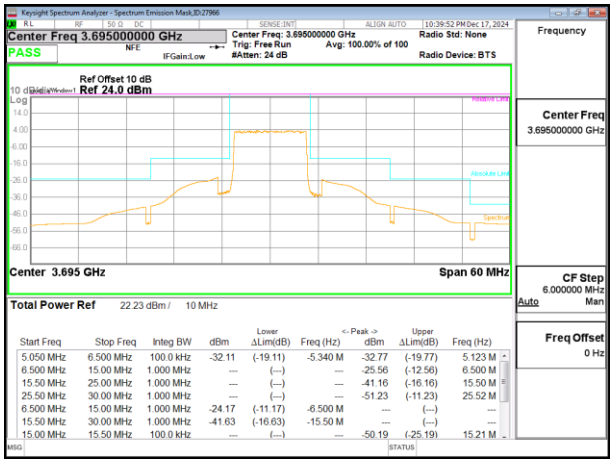

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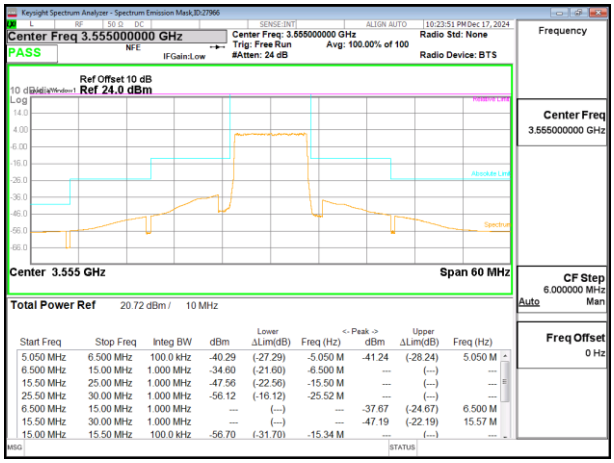

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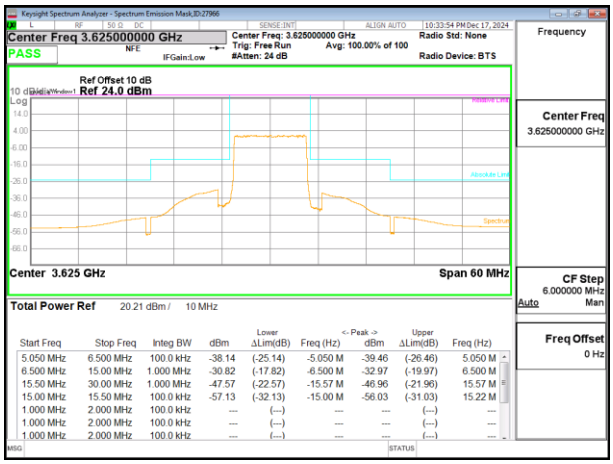

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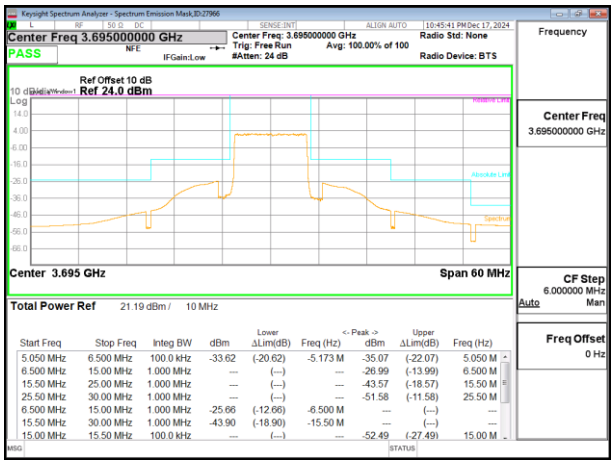

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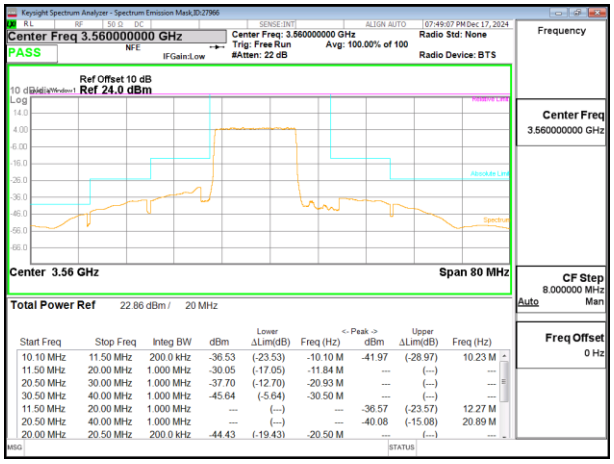

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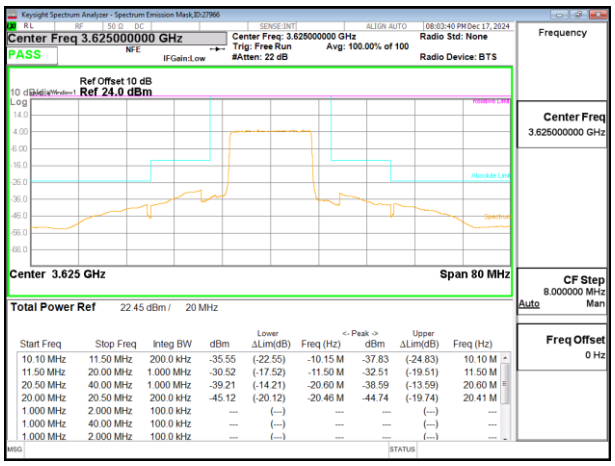

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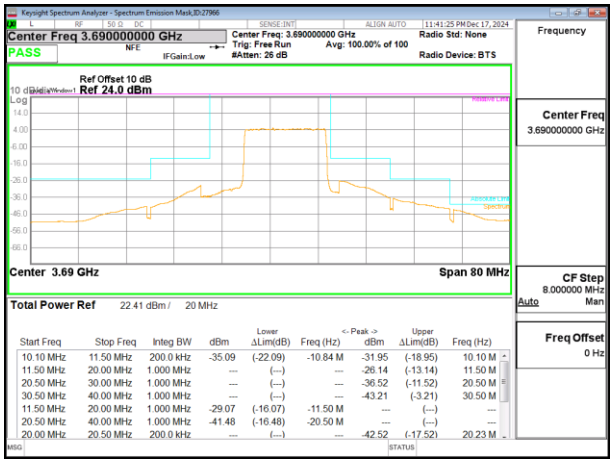

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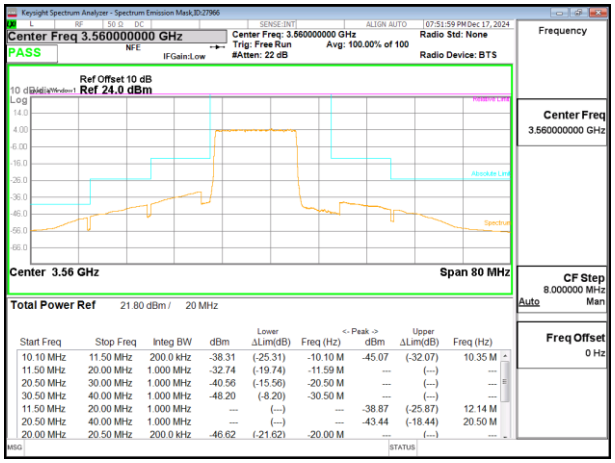

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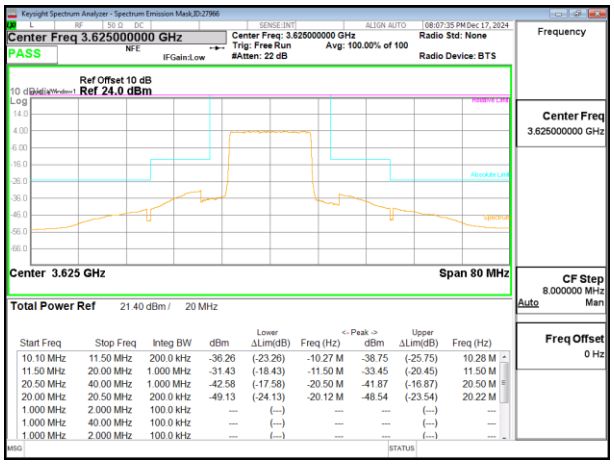

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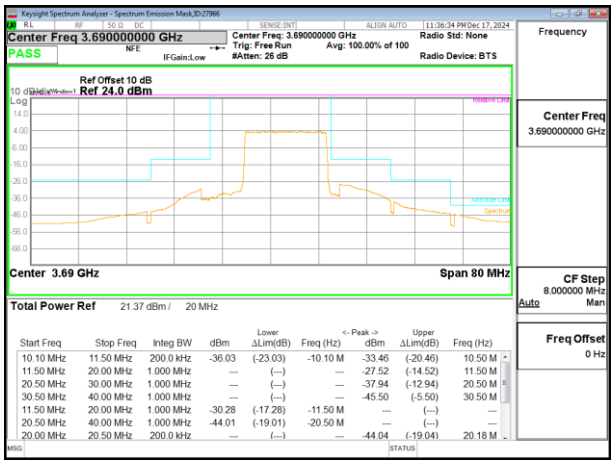

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