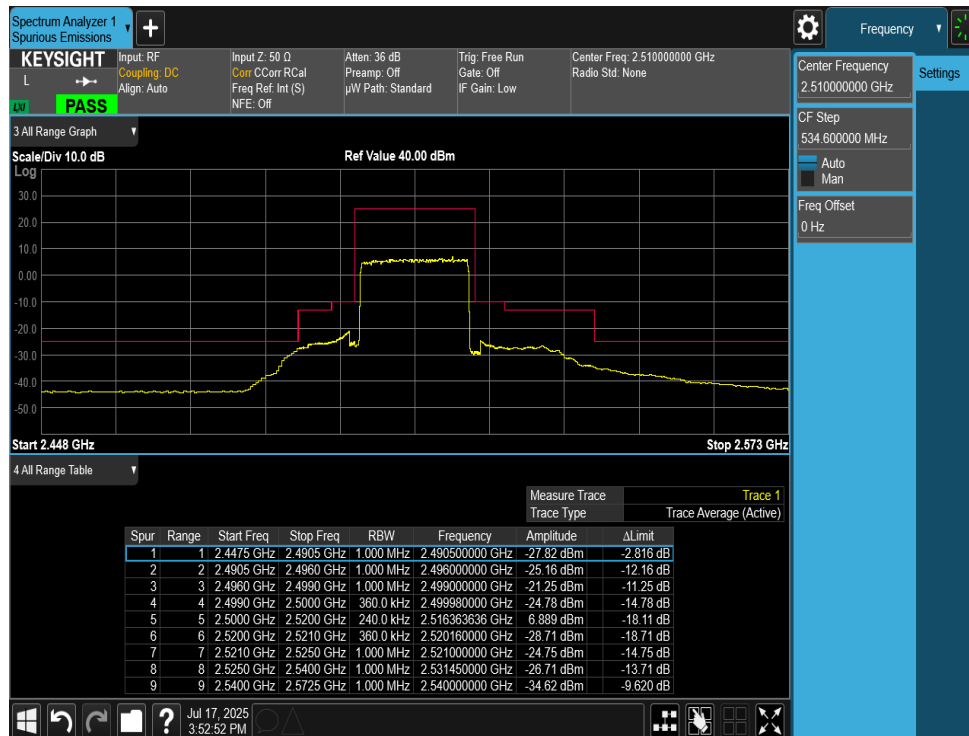


Plot 7-92. Upper Band Edge Plot (LTE Band 7 - 15MHz QPSK – Full RB)

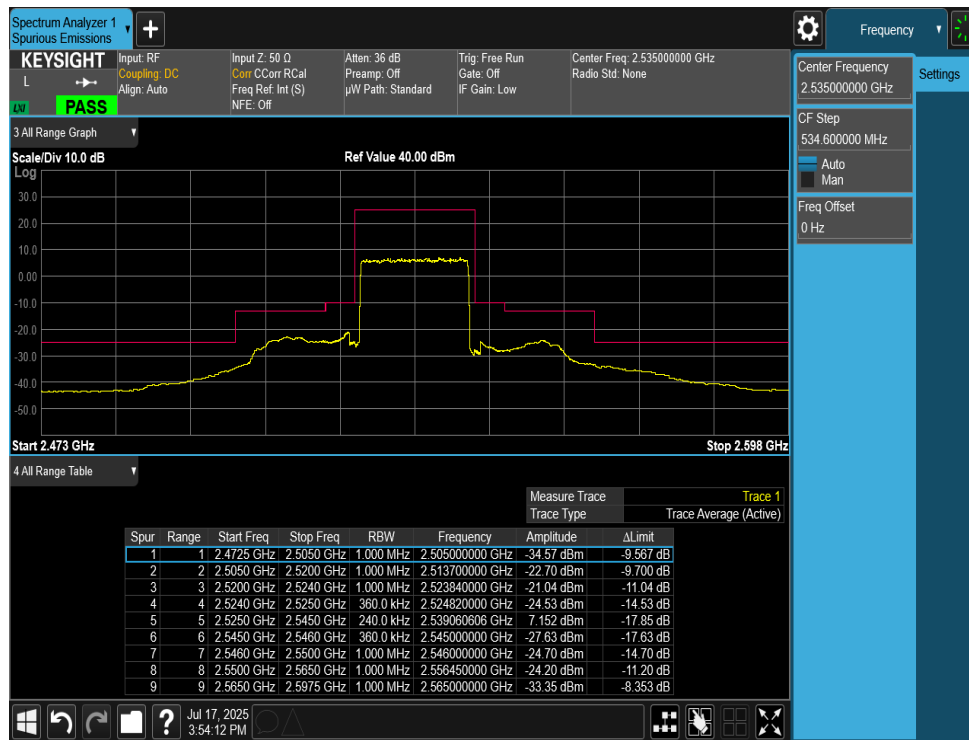


Plot 7-93. Lower Band Edge Plot (LTE Band 7 - 20MHz QPSK – Full RB)

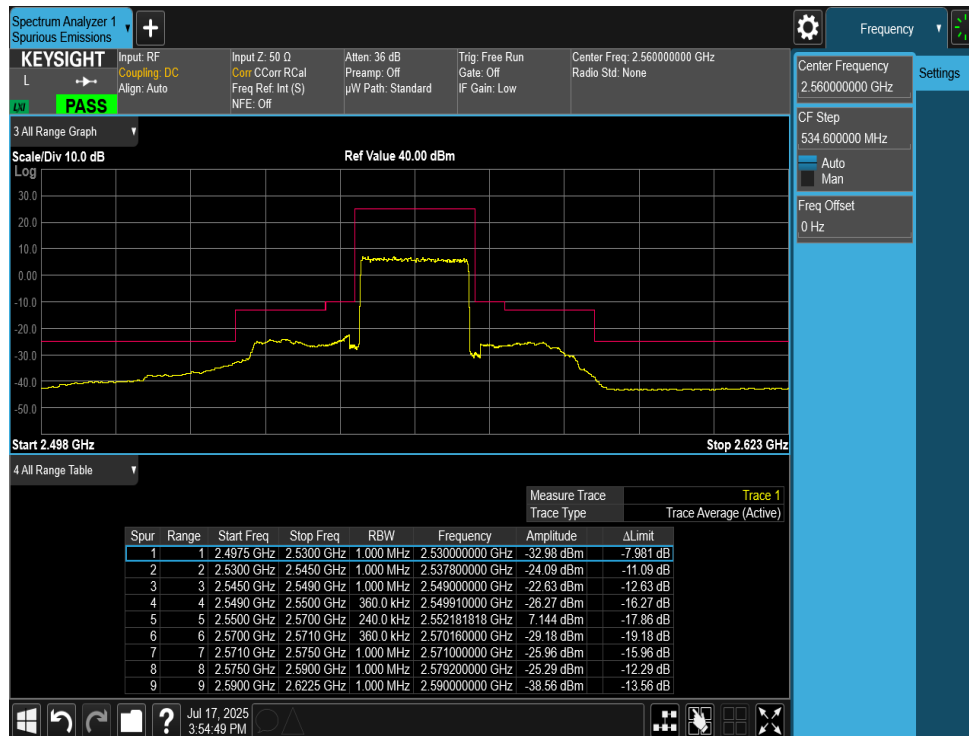
FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-04.BCG	Test Dates: 4/4/2025 - 7/21/2025	EUT Type: Watch	Page 68 of 112

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Plot 7-94. Mid Band Edge Plot (LTE Band 7 - 20MHz QPSK – Full RB)



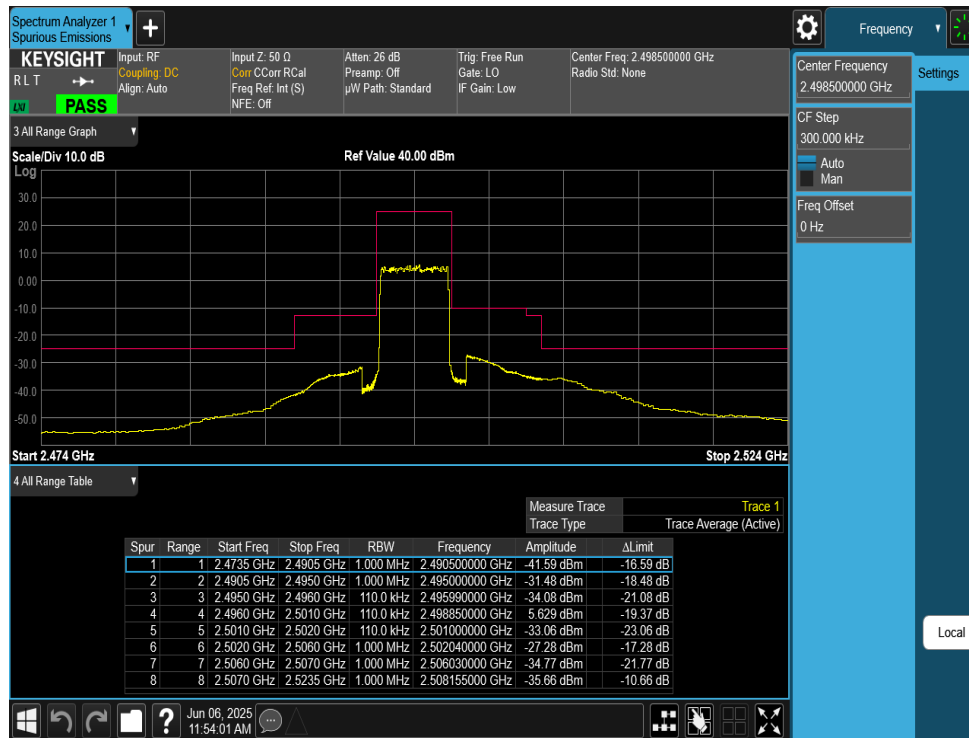
Plot 7-95. Upper Band Edge Plot (LTE Band 7 - 20MHz QPSK – Full RB)

FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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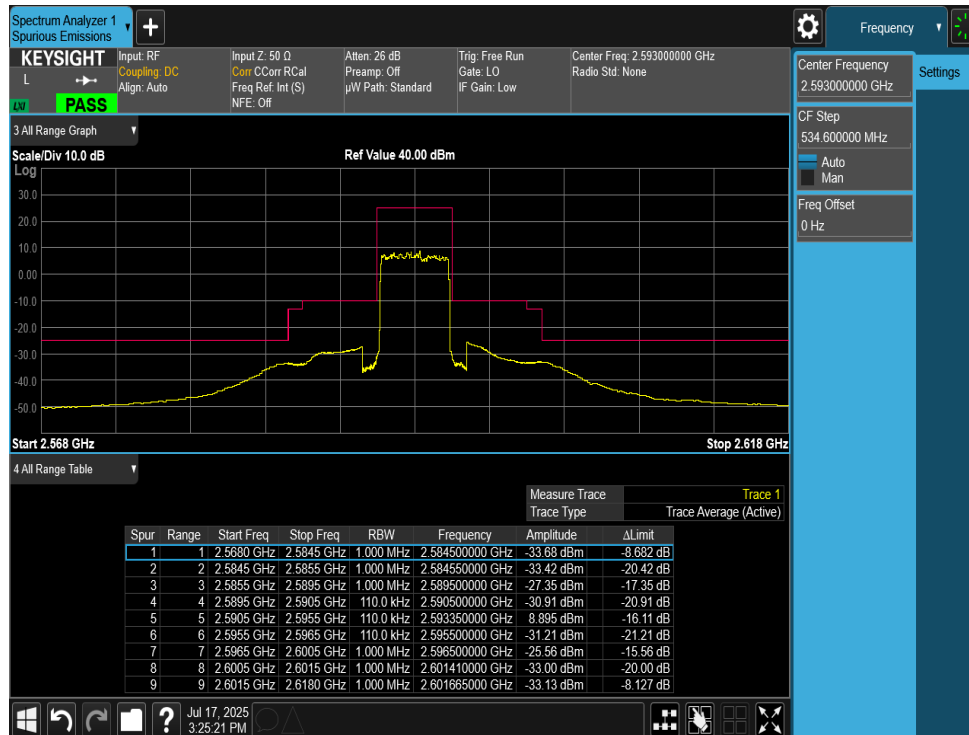
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LTE Band 41



Plot 7-96. Lower Band Edge Plot (LTE Band 41 - 5MHz QPSK – Full RB)

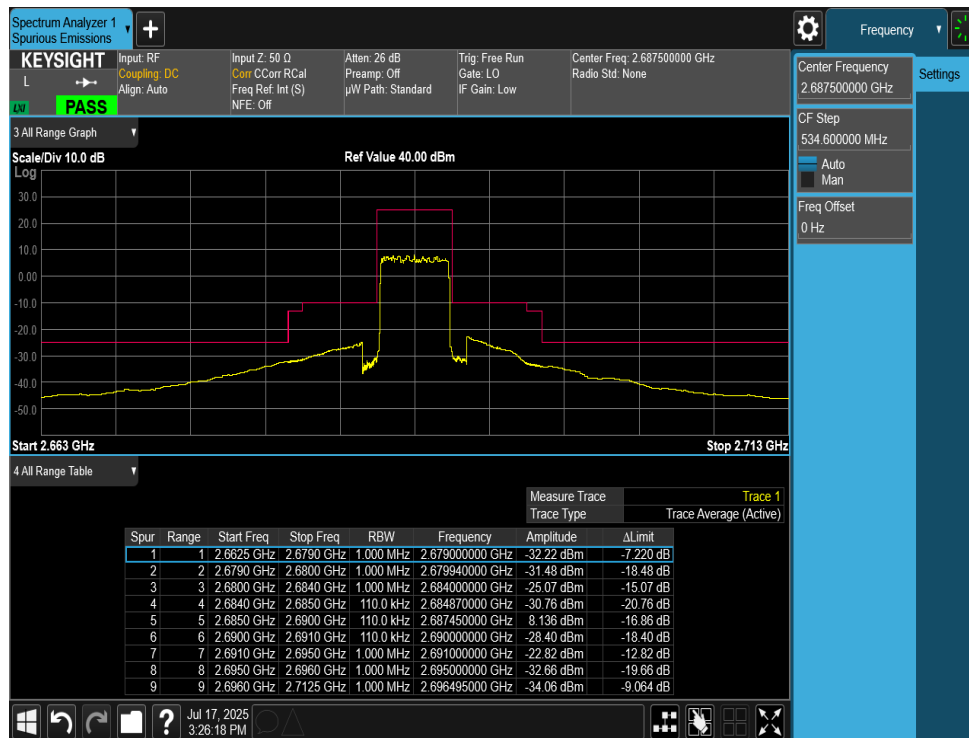


Plot 7-97. Mid Band Edge Plot (LTE Band 41 - 5MHz QPSK – Full RB)

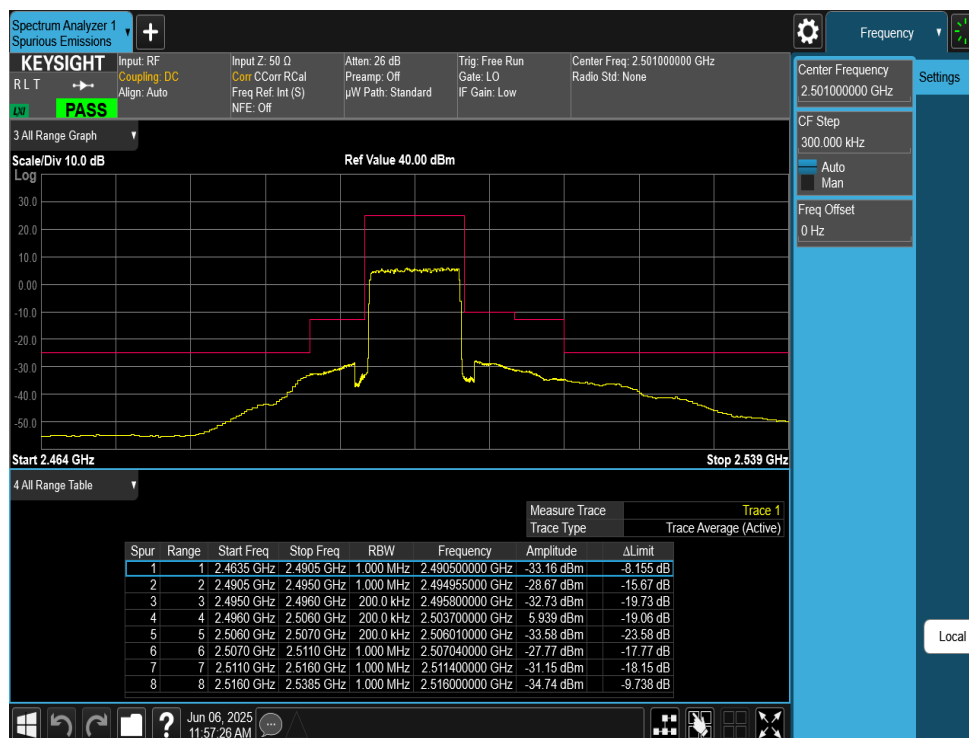
FCC ID: BCG-A3326	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-98. Upper Band Edge Plot (LTE Band 41 - 5MHz QPSK – Full RB)

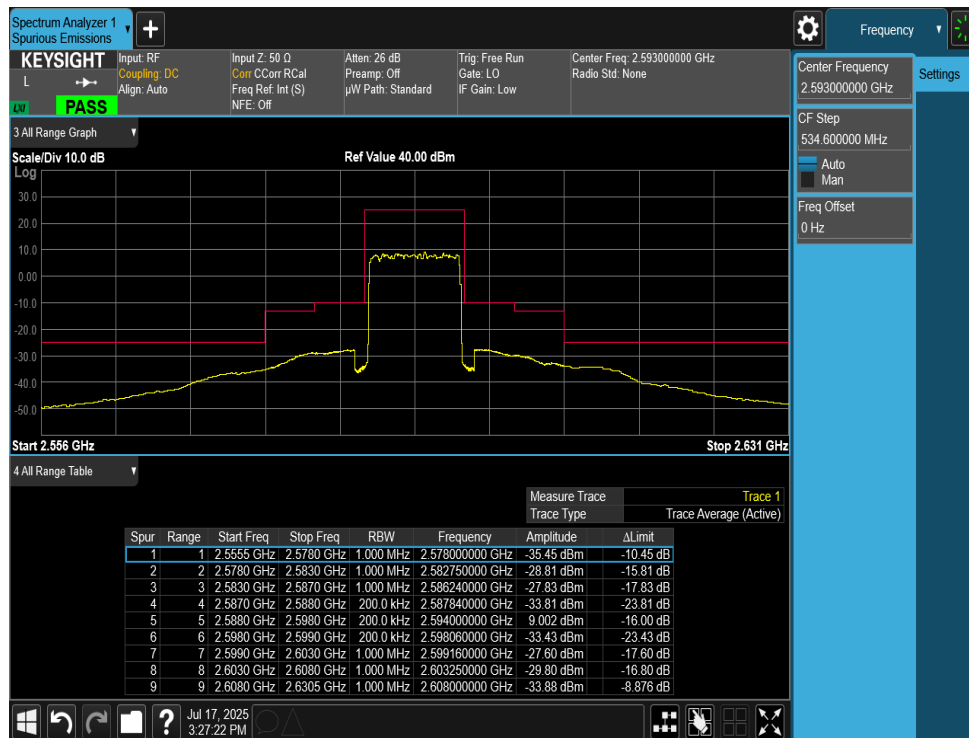


Plot 7-99. Lower Band Edge Plot (LTE Band 41 - 10MHz QPSK – Full RB)

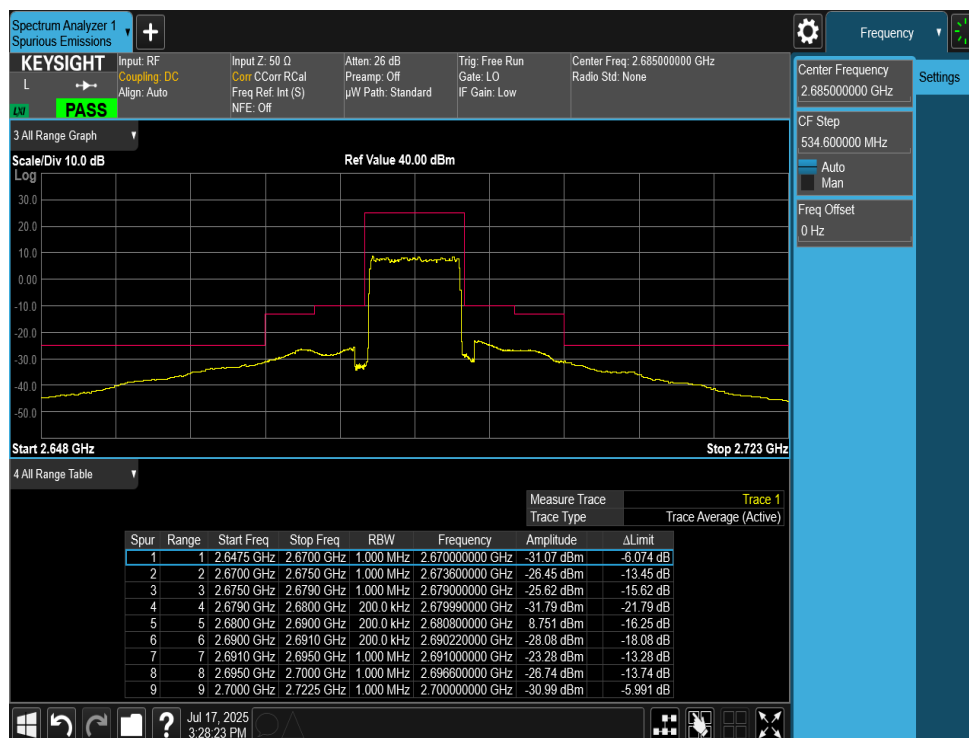
FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-100. Mid Band Edge Plot (LTE Band 41 - 10MHz QPSK – Full RB)

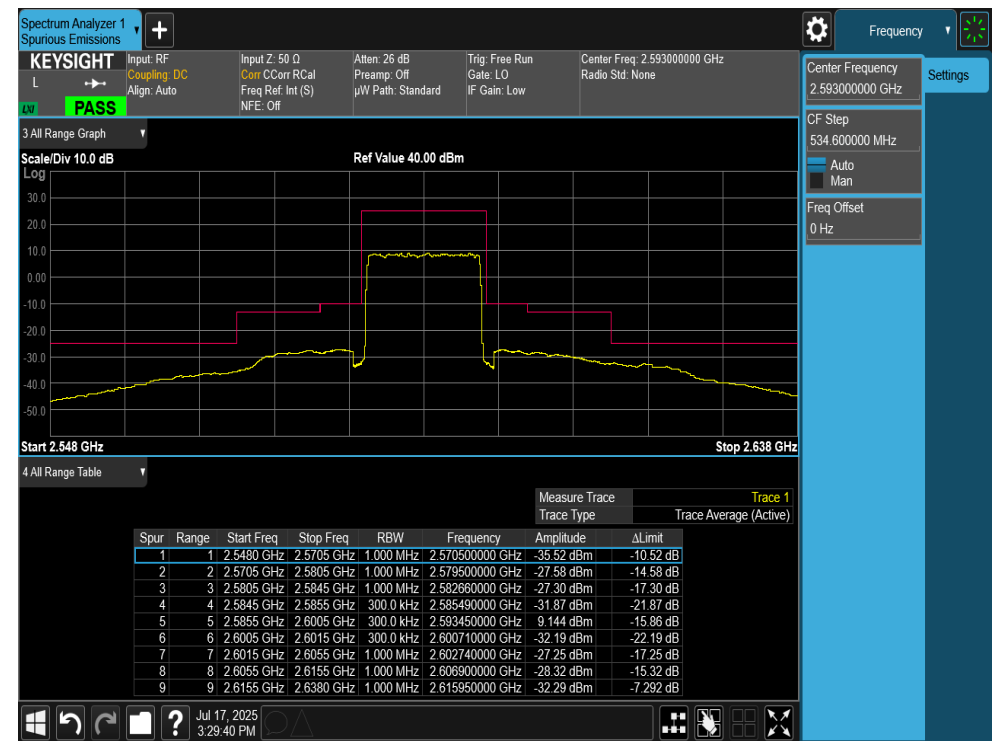
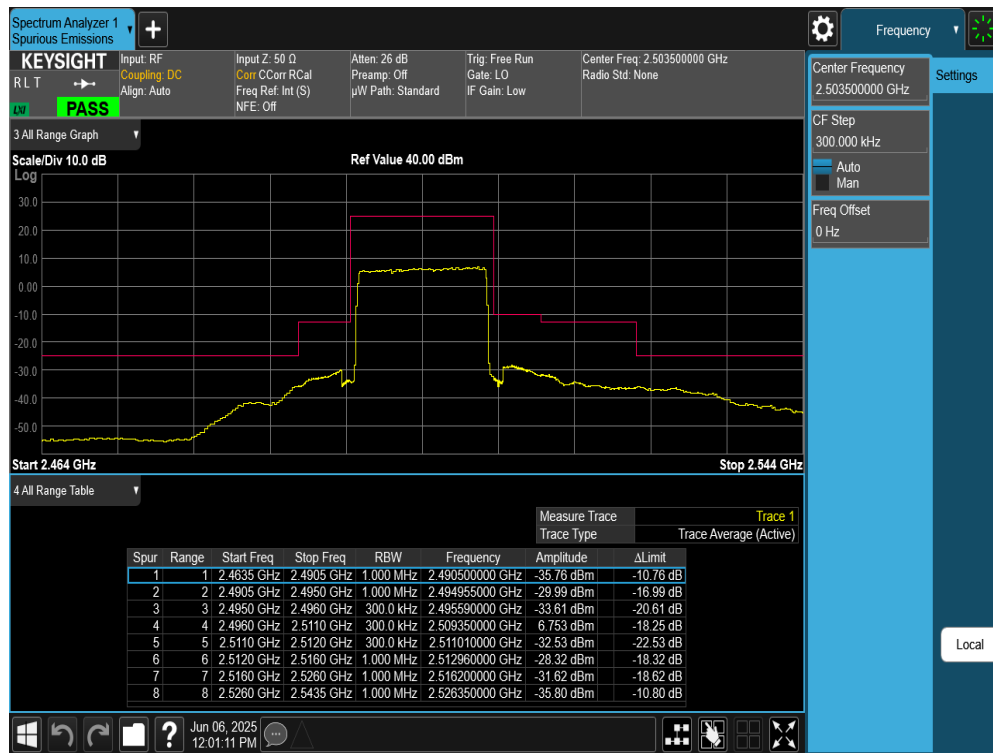


Plot 7-101. Upper Band Edge Plot (LTE Band 41 – 10MHz QPSK – Full RB)

FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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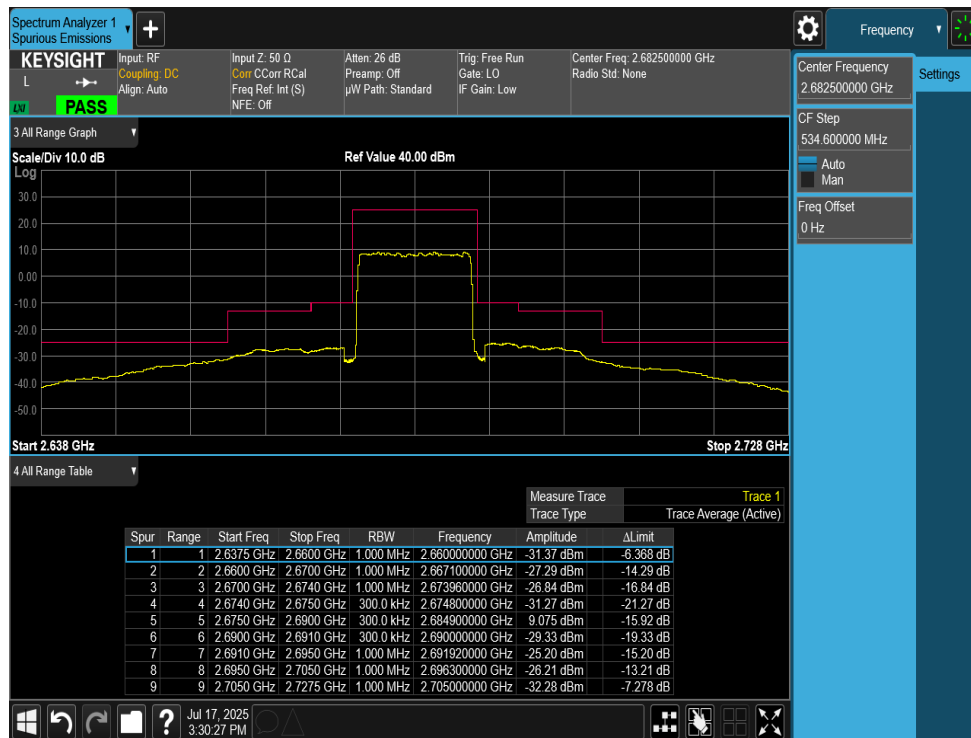
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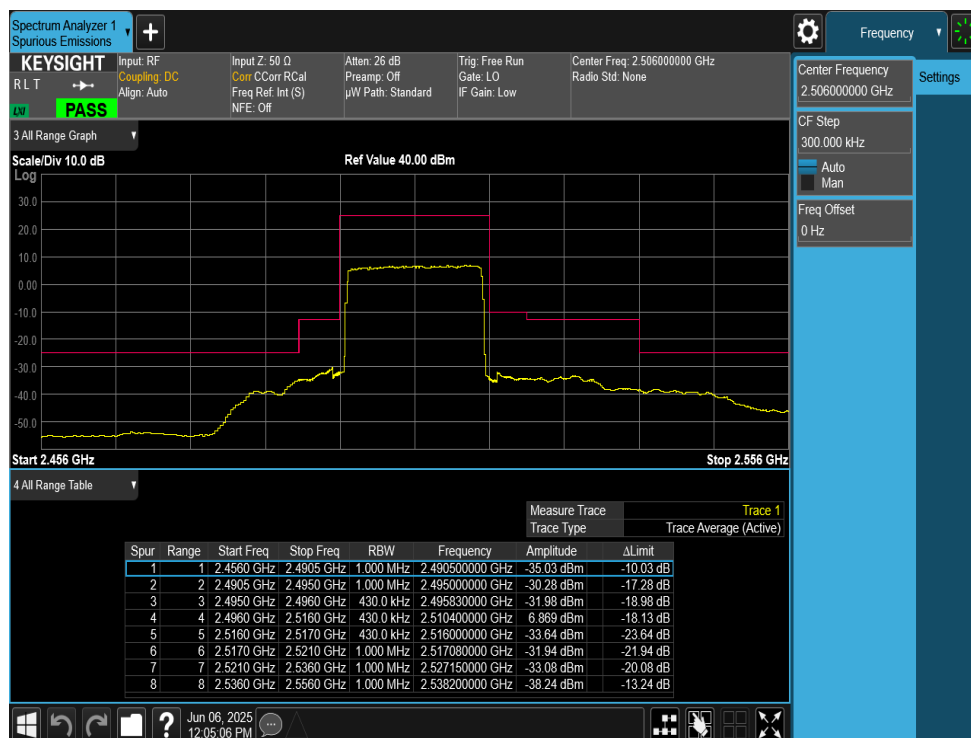
FCC ID: BCG-A3326	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-104. Upper Band Edge Plot (LTE Band 41 - 15MHz QPSK – Full RB)

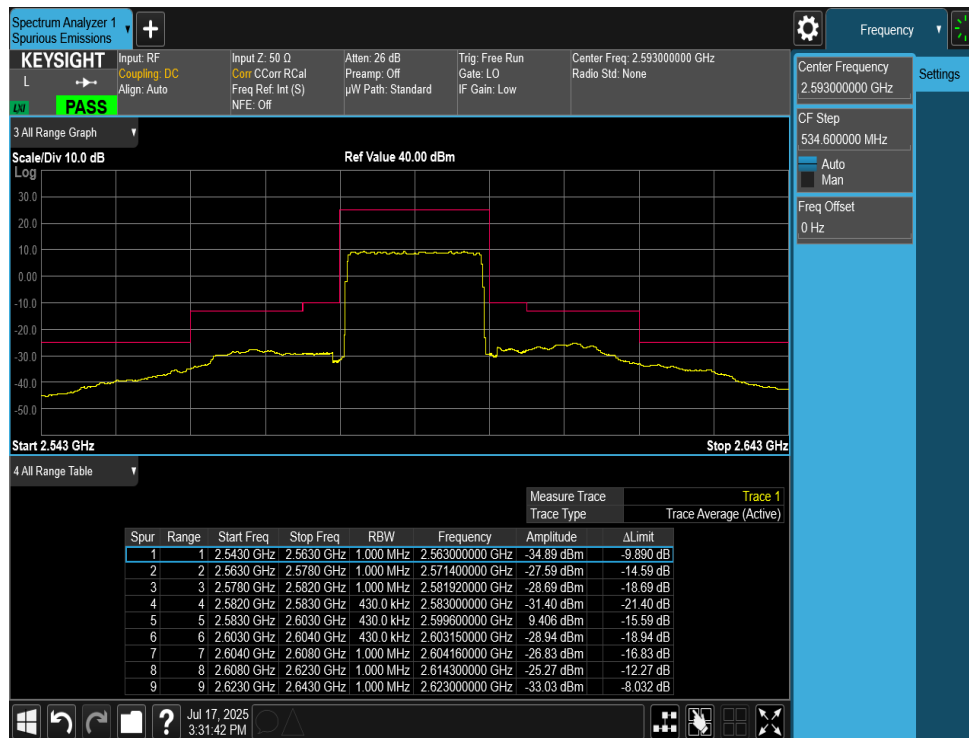


Plot 7-105. Lower Band Edge Plot (LTE Band 41 - 20MHz QPSK – Full RB)

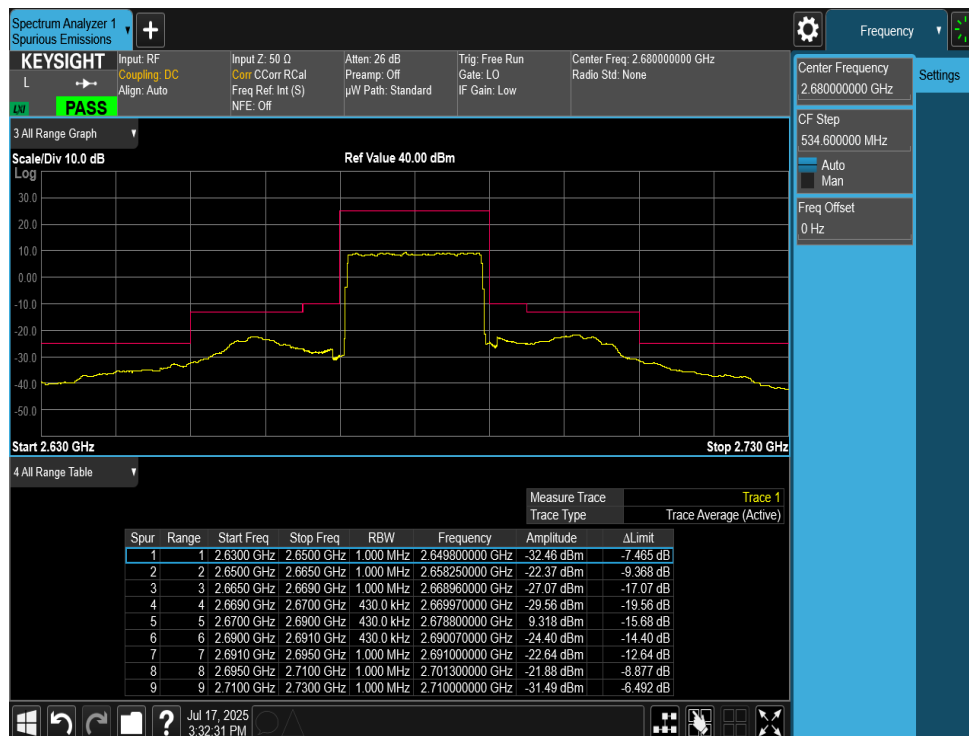
FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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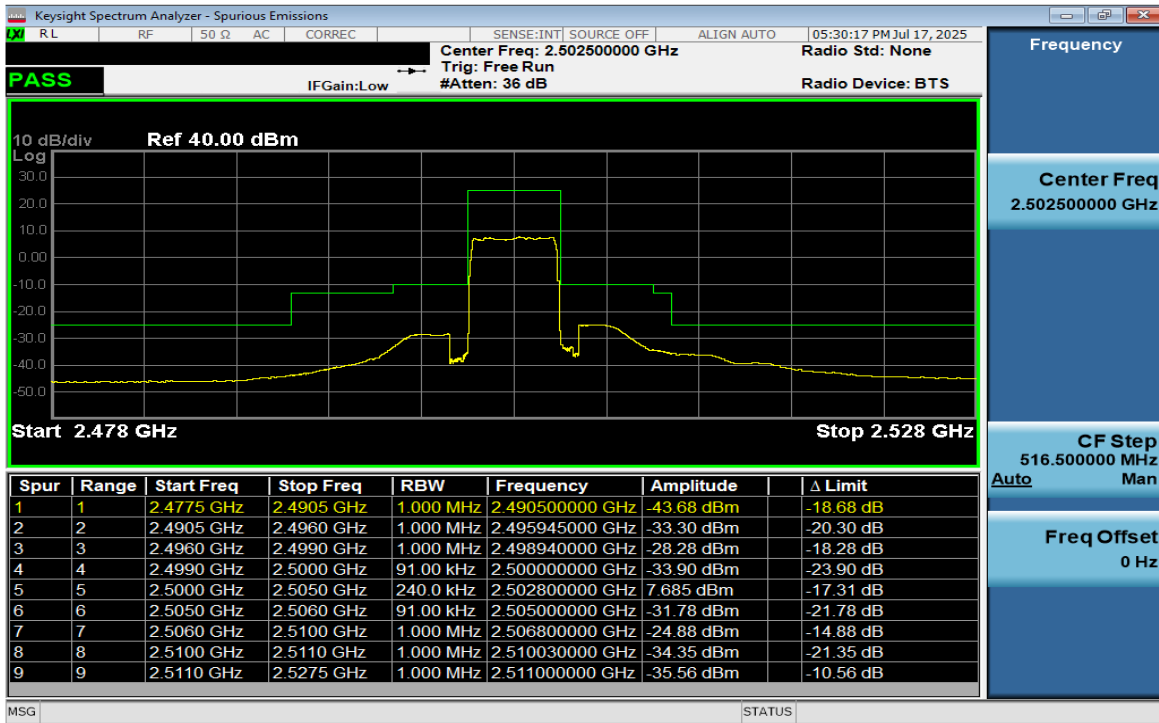
Plot 7-106. Mid Band Edge Plot (LTE Band 41 - 20MHz QPSK – Full RB)



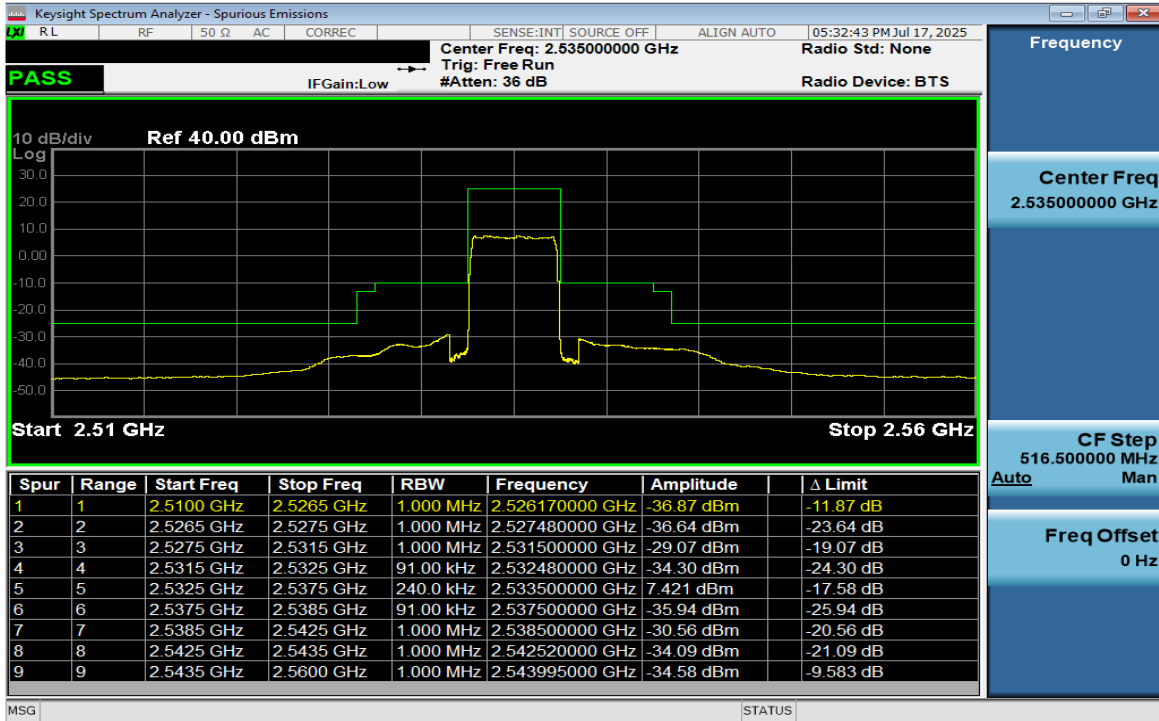
Plot 7-107. Upper Band Edge Plot (LTE Band 41 - 20MHz QPSK – Full RB)

FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n7



Plot 7-108. Lower Band Edge Plot (NR Band n7 - 5MHz DFT-s-OFDM QPSK – Full RB)

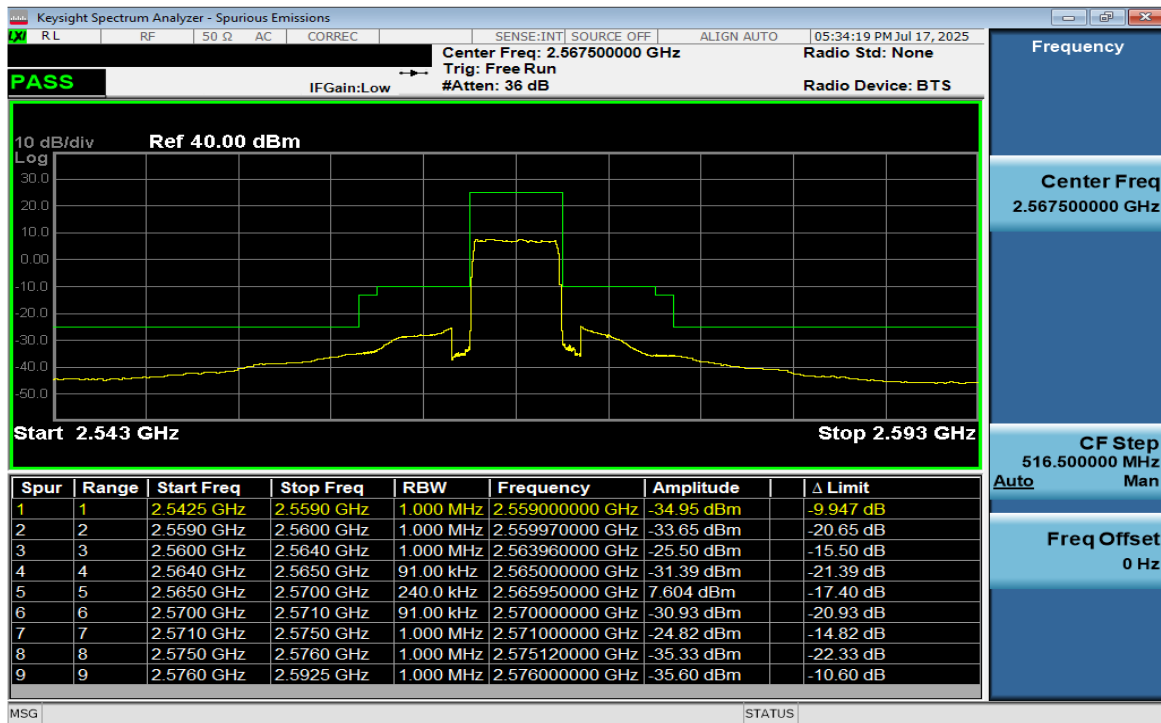


Plot 7-109. Mid Band Edge Plot (NR Band n7 - 5MHz DFT-s-OFDM QPSK – Full RB)

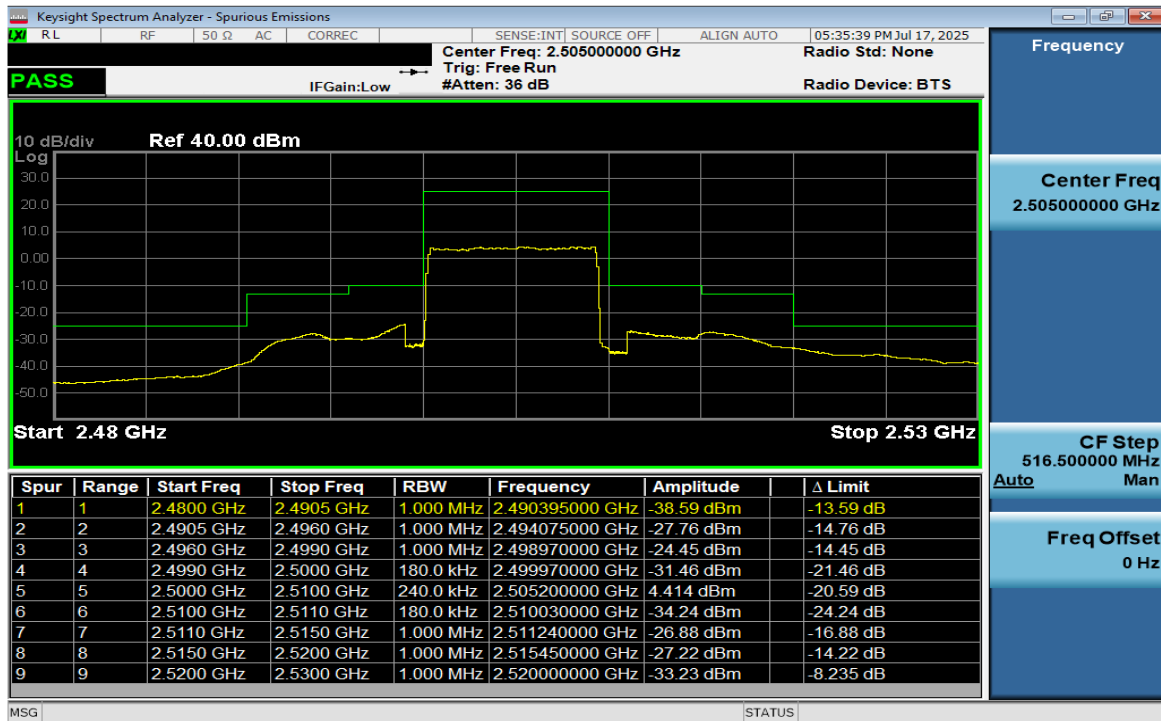
FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-110. Upper Band Edge Plot (NR Band n7 - 5MHz DFT-s-OFDM QPSK – Full RB)

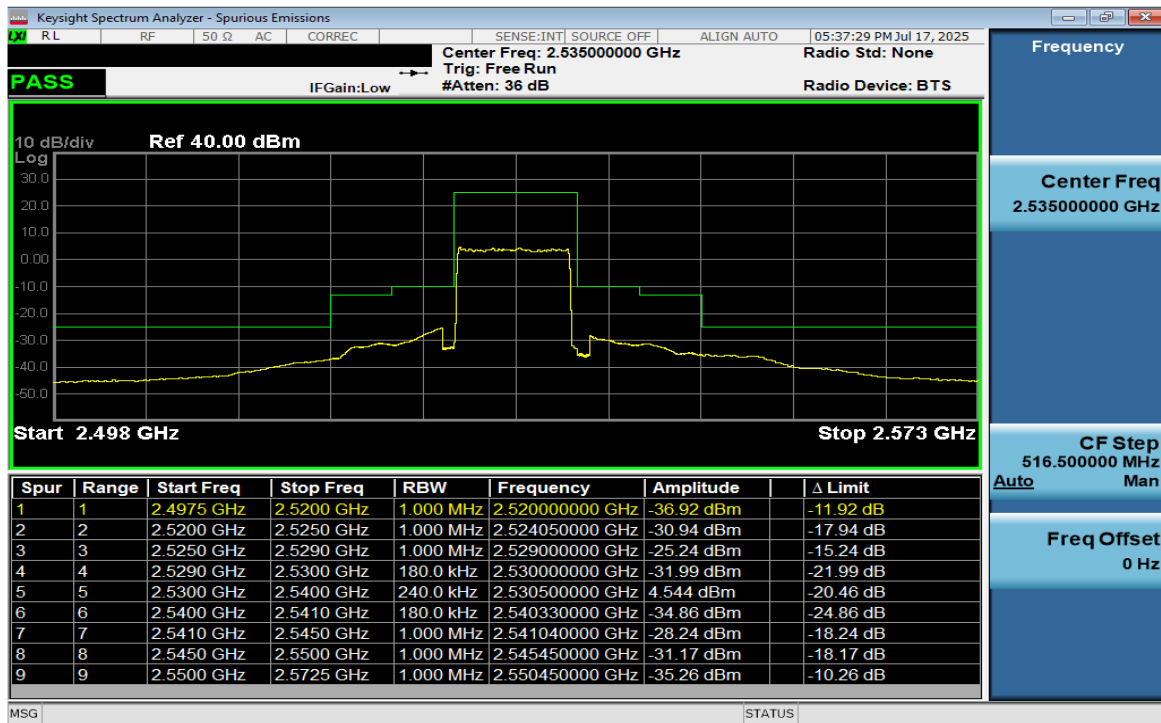


Plot 7-111. Lower Band Edge Plot (NR Band n7 - 10MHz DFT-s-OFDM QPSK – Full RB)

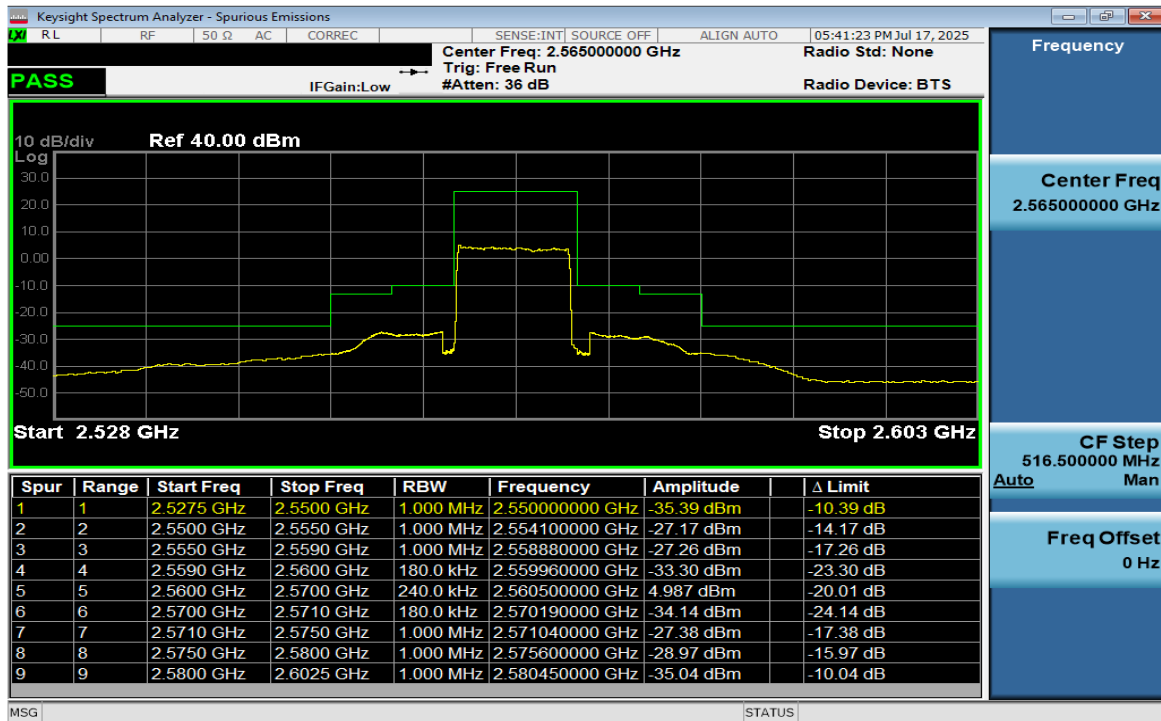
FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-04.BCG	Test Dates: 4/4/2025 - 7/21/2025	EUT Type: Watch	Page 77 of 112

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Plot 7-112. Mid Band Edge Plot (NR Band n7 - 10MHz DFT-s-OFDM QPSK – Full RB)

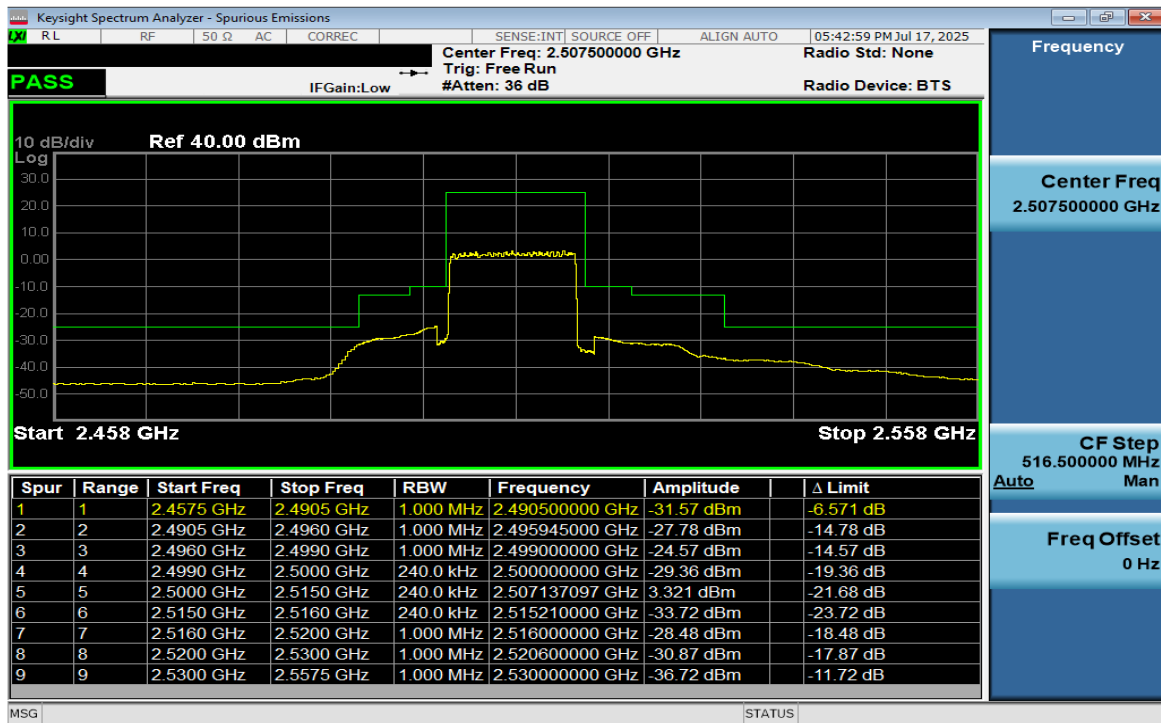


Plot 7-113. Upper Band Edge Plot (NR Band n7 - 10MHz DFT-s-OFDM QPSK – Full RB)

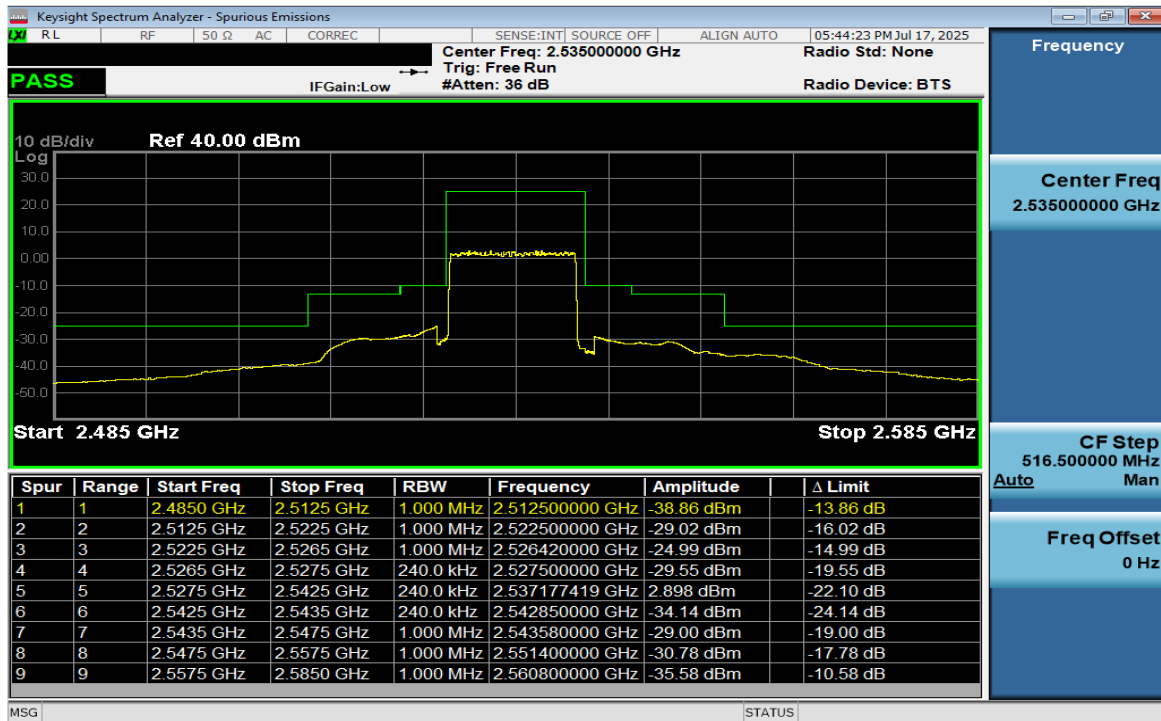
FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-114. Lower Band Edge Plot (NR Band n7 - 15MHz DFT-s-OFDM QPSK – Full RB)

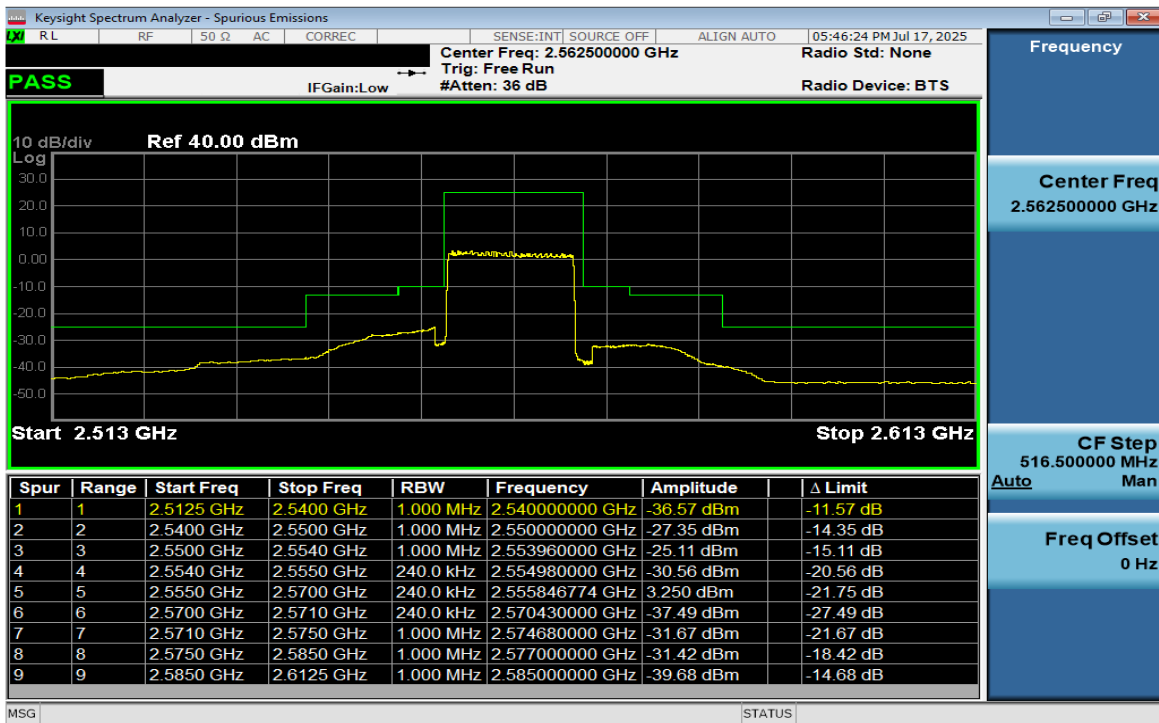


Plot 7-115. Mid Band Edge Plot (NR Band n7 - 15MHz DFT-s-OFDM QPSK – Full RB)

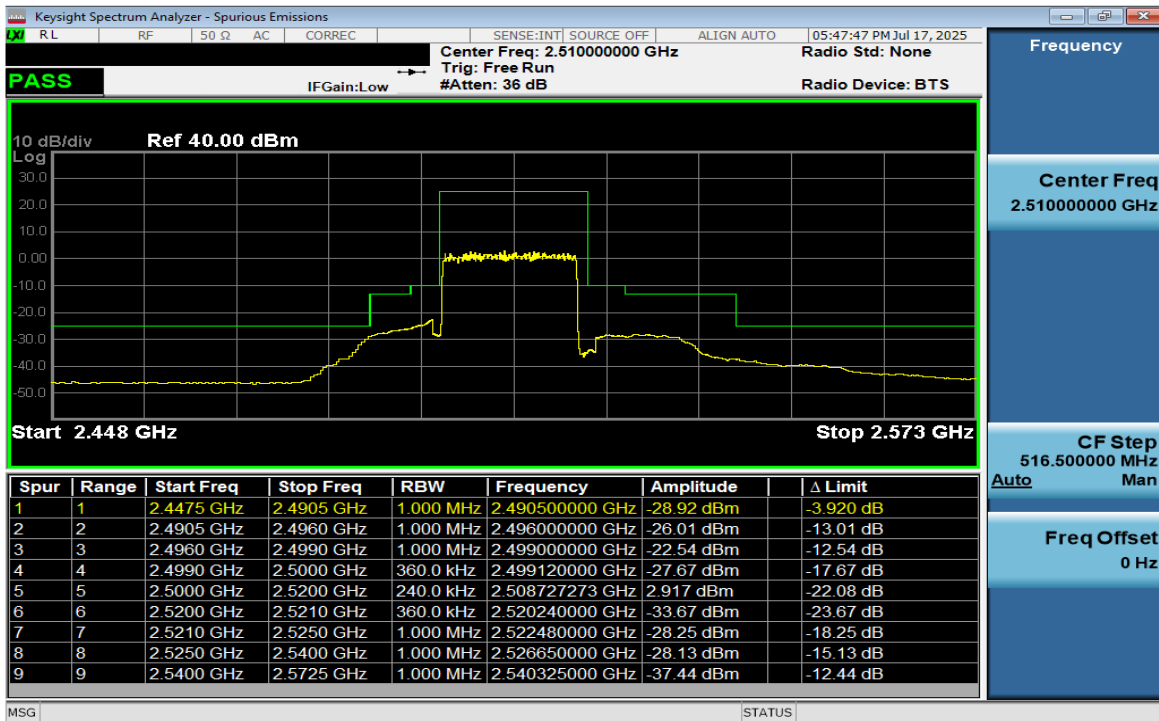
FCC ID: BCG-A3326	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2503270036-04.BCG	Test Dates: 4/4/2025 - 7/21/2025	EUT Type: Watch	Page 79 of 112

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Plot 7-116. Upper Band Edge Plot (NR Band n7 - 15MHz DFT-s-OFDM QPSK – Full RB)

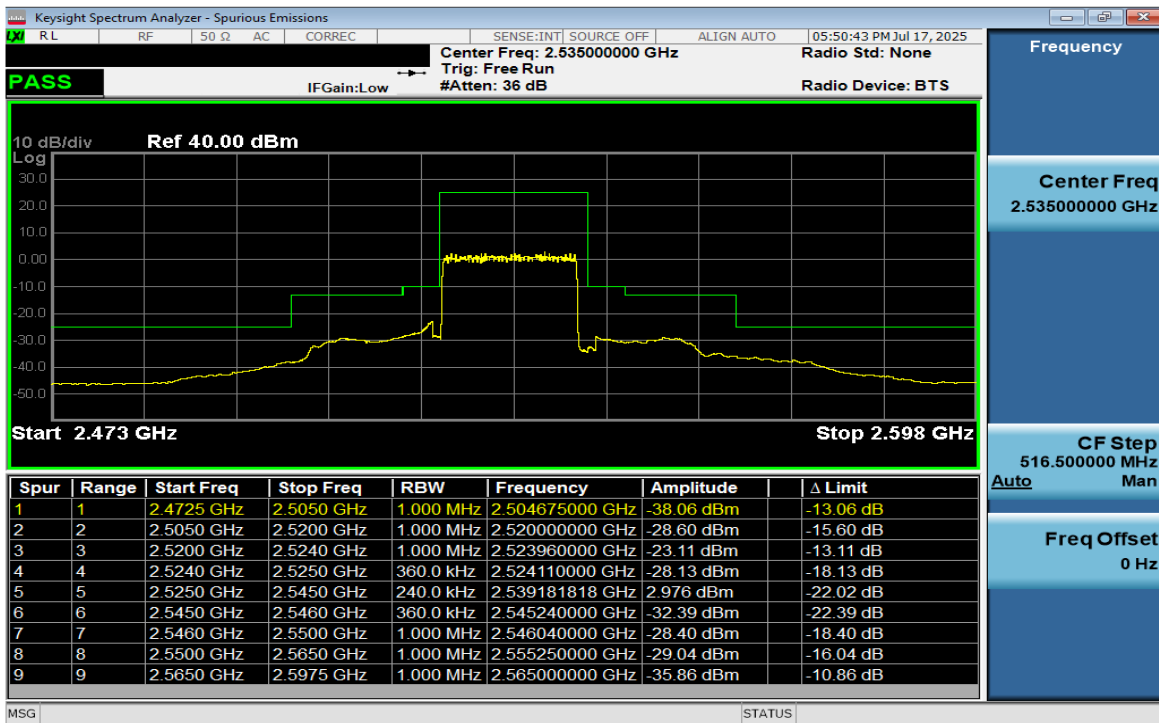


Plot 7-117. Lower Band Edge Plot (NR Band n7 - 20MHz DFT-s-OFDM QPSK – Full RB)

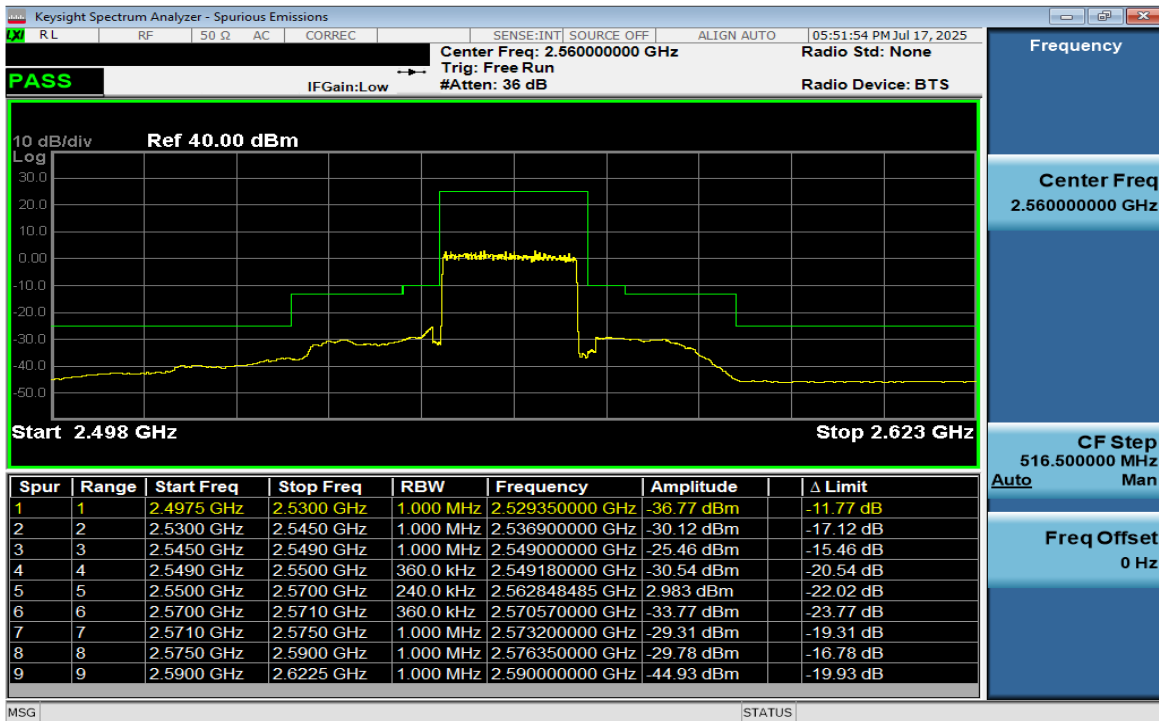
FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-118. Mid Band Edge Plot (NR Band n7 - 20MHz DFT-s-OFDM QPSK – Full RB)



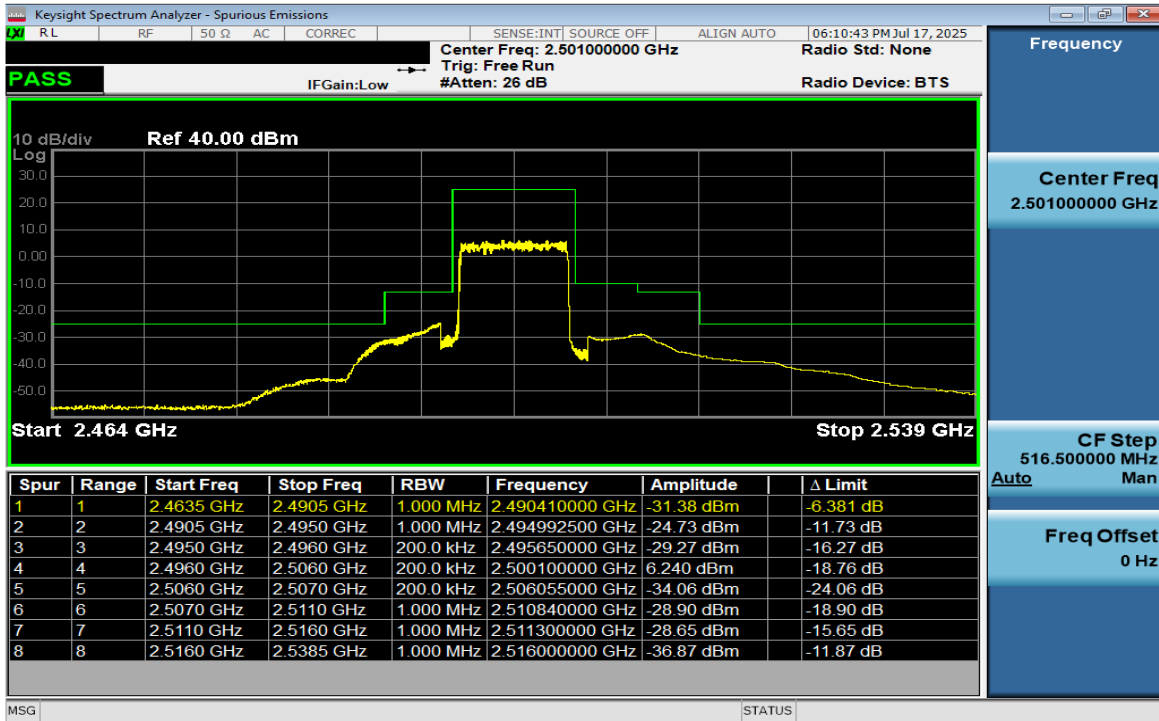
Plot 7-119. Upper Band Edge Plot (NR Band n7 - 20MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCG-A3326	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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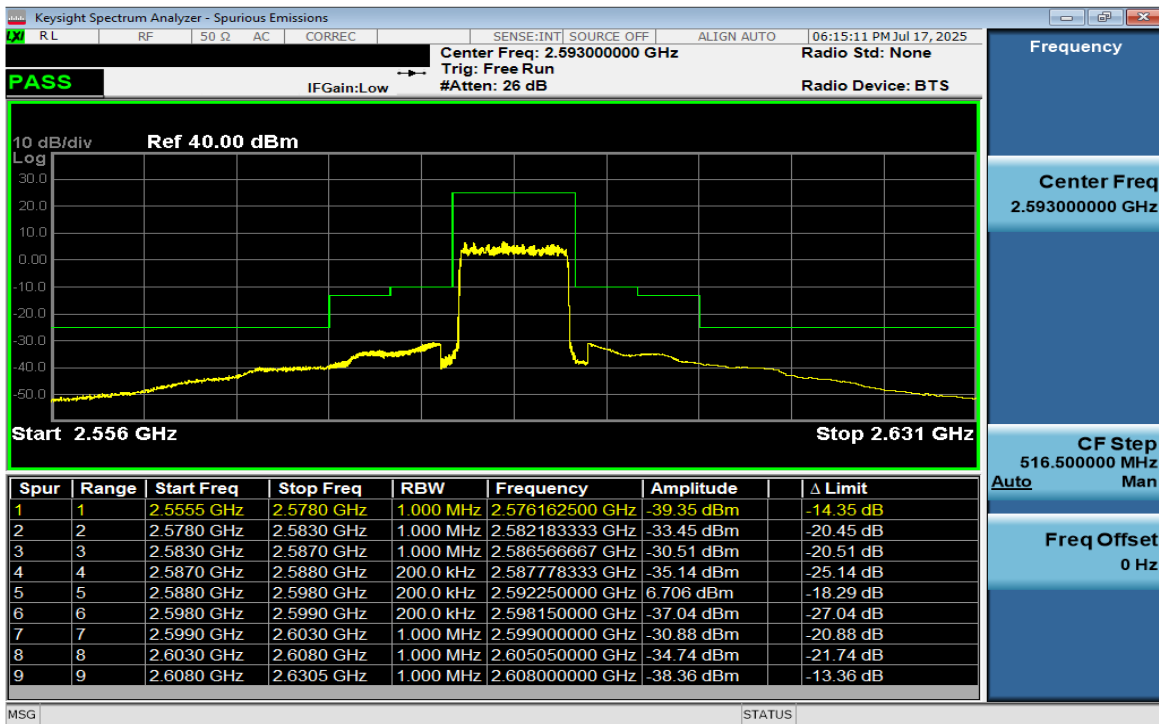
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NR Band n41



Plot 7-120. Lower Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM QPSK – Full RB)

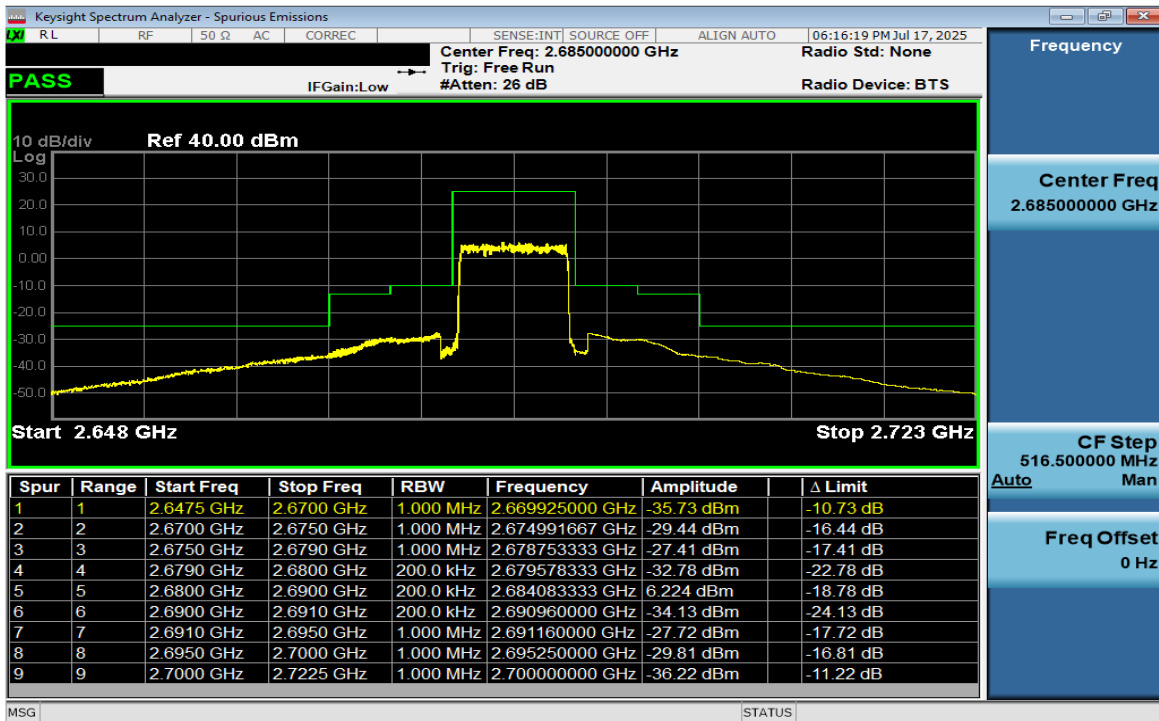


Plot 7-121. Mid Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM QPSK – Full RB)

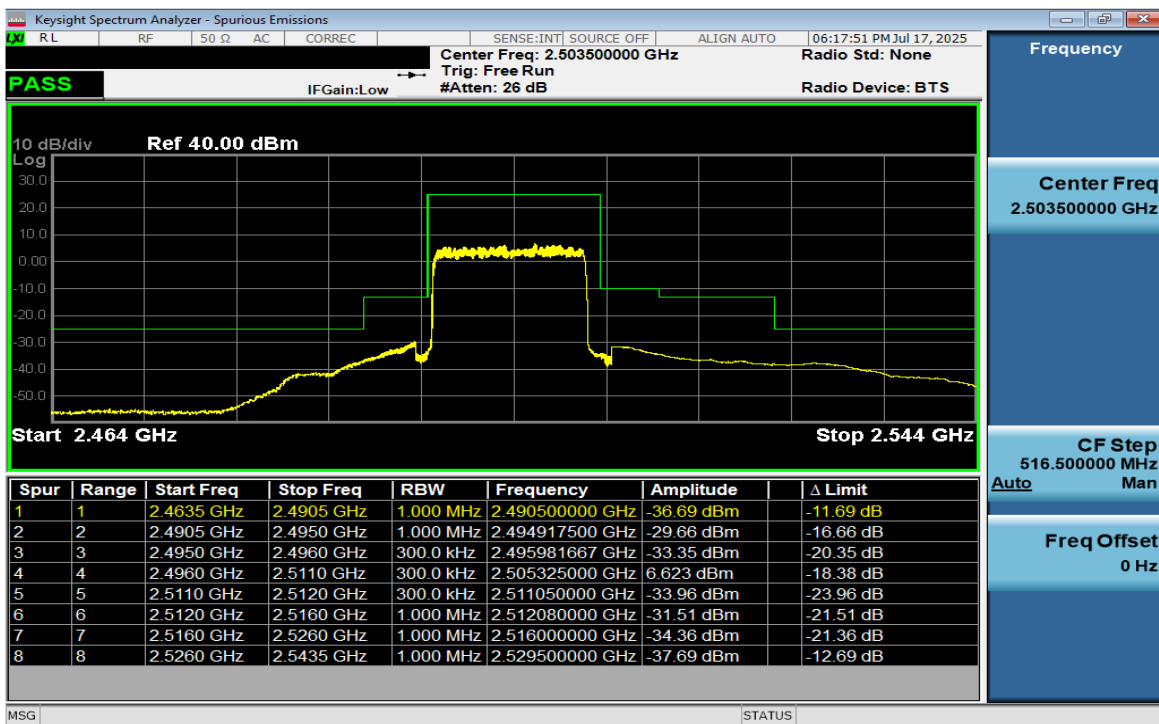
FCC ID: BCG-A3326	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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Plot 7-122. Upper Band Edge Plot (NR Band n41 – 10MHz DFT-s-OFDM QPSK – Full RB)

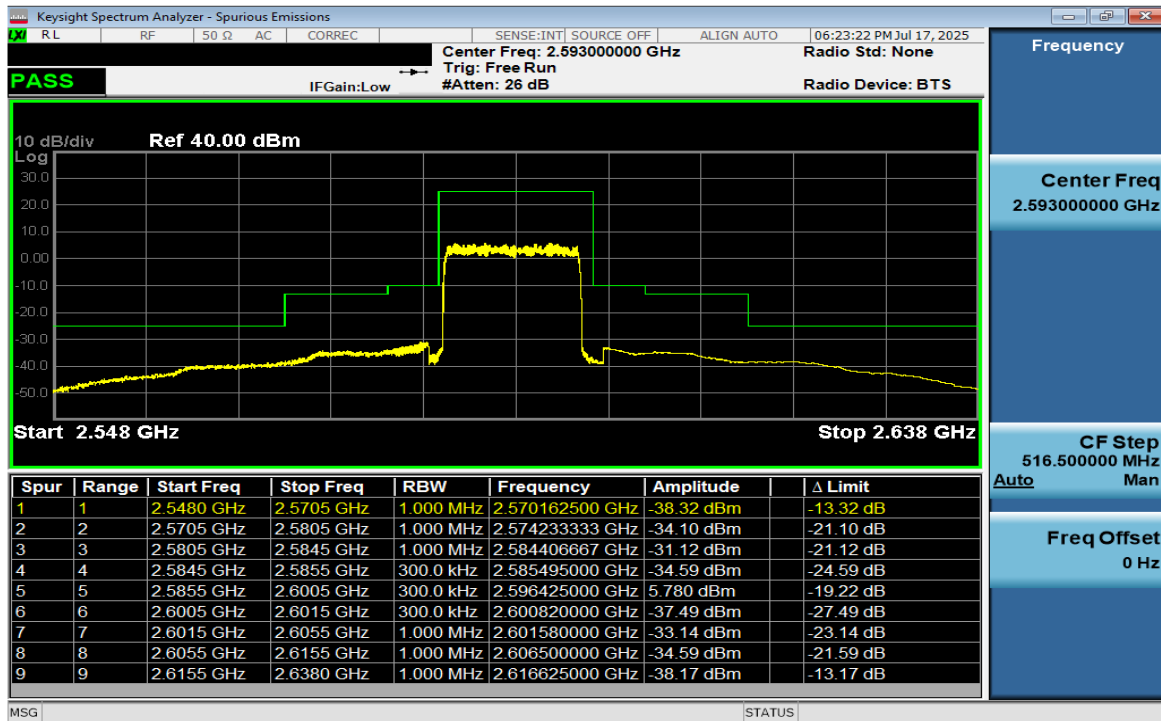


Plot 7-123. Lower Band Edge Plot (NR Band n41 - 15MHz DFT-s-OFDM QPSK – Full RB)

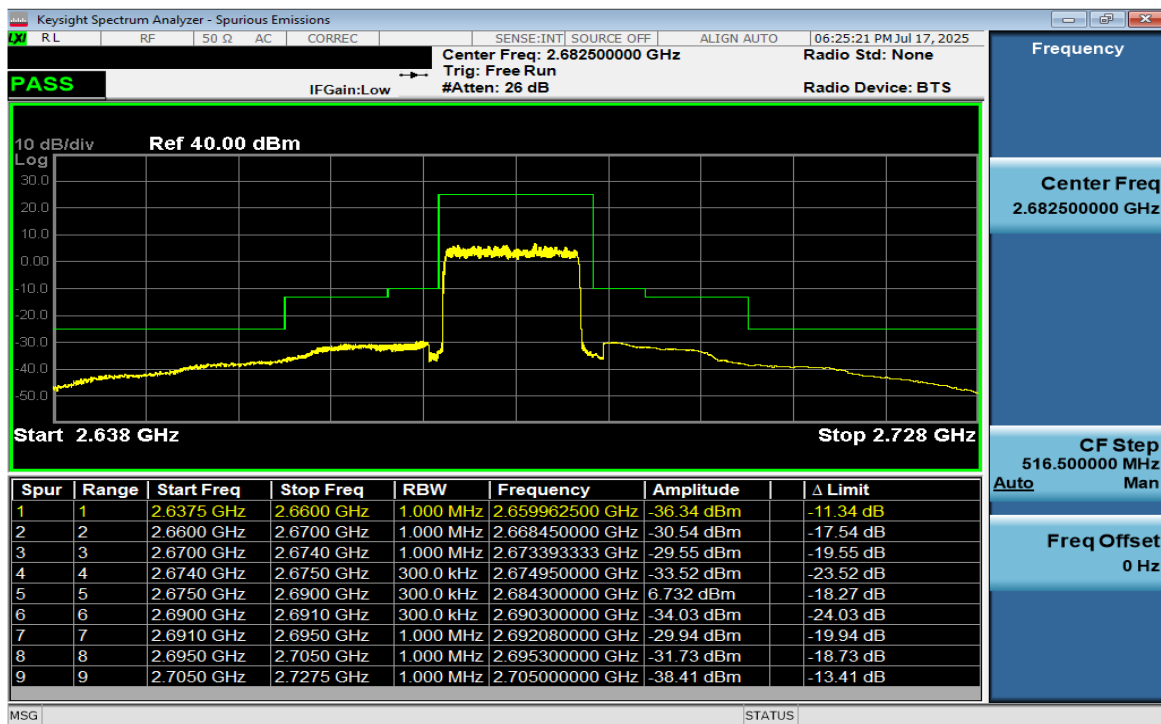
FCC ID: BCG-A3326	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-124. Mid Band Edge Plot (NR Band n41 - 15MHz DFT-s-OFDM QPSK – Full RB)

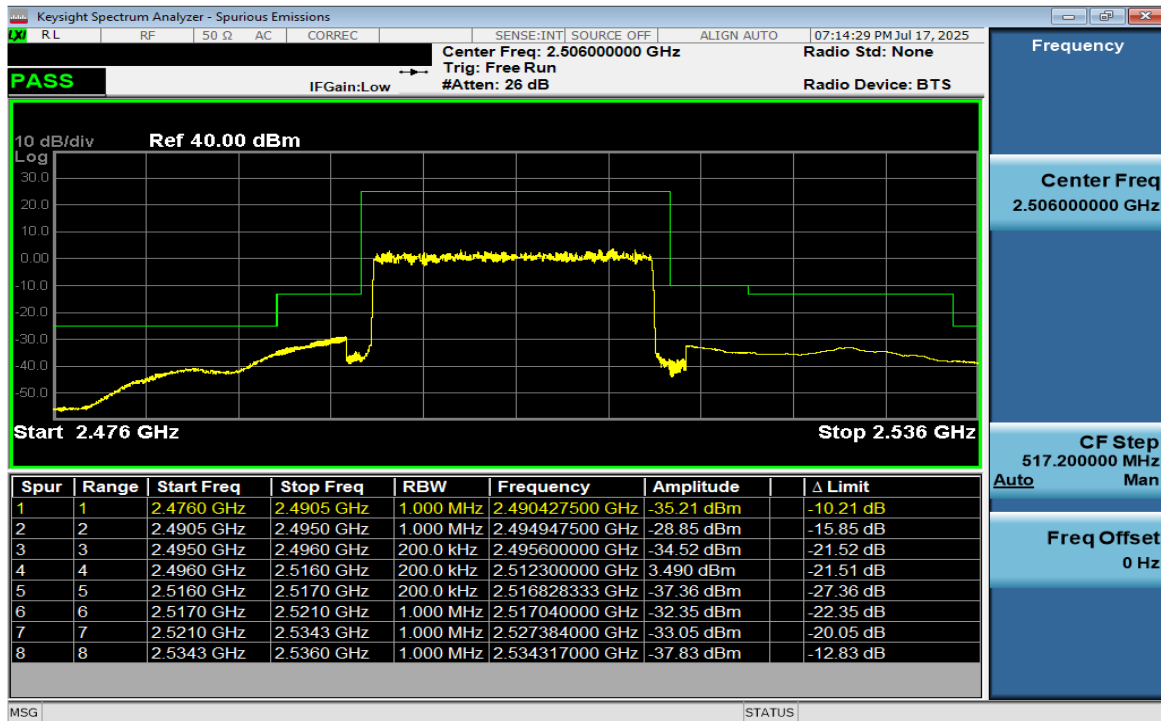


Plot 7-125. Upper Band Edge Plot (NR Band n41 - 15MHz DFT-s-OFDM QPSK – Full RB)

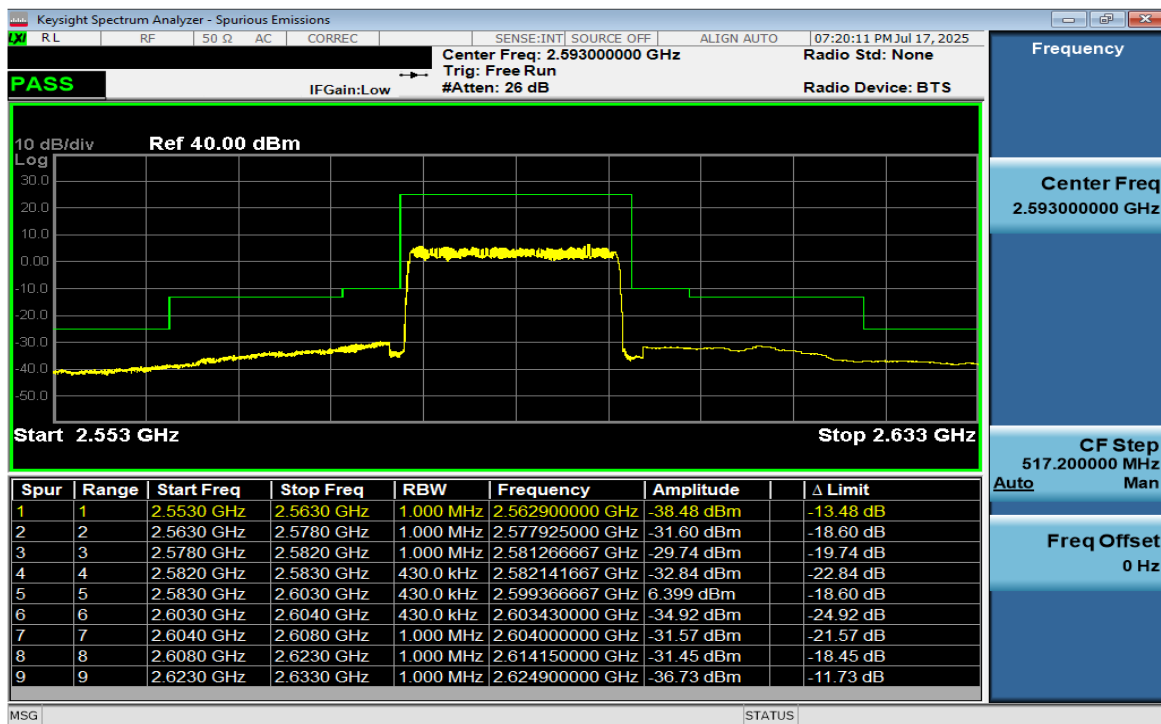
FCC ID: BCG-A3326	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-126. Lower Band Edge Plot (NR Band n41 - 20MHz DFT-s-OFDM QPSK – Full RB)

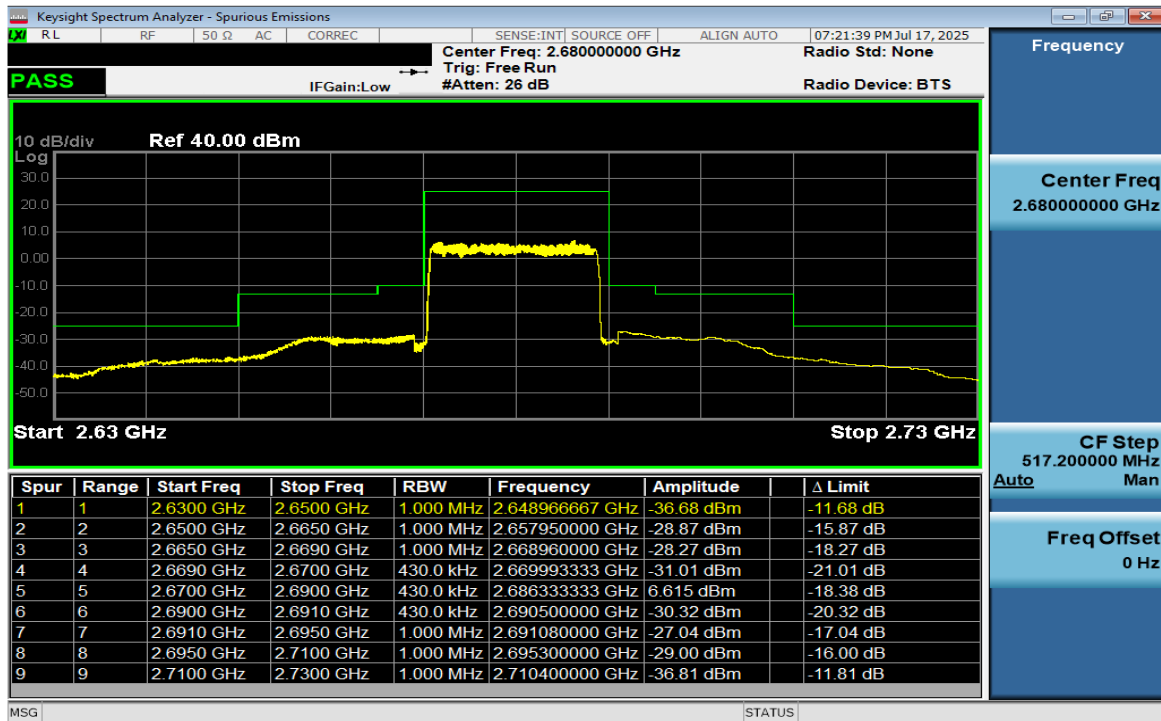


Plot 7-127. Mid Band Edge Plot (NR Band n41 - 20MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCG-A3326	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-128. Upper Band Edge Plot (NR Band n41 - 20MHz DFT-s-OFDM QPSK – Full RB)

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7.5 Radiated Power (EIRP)

§27.50(a)(3), §27.50(h)(2)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

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

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

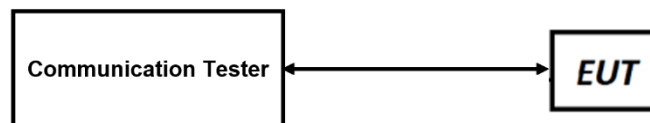


Figure 7-7. LTE EIRP Measurement Setup

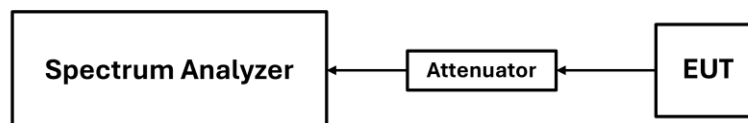




Figure 7-8. FR1 EIRP Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.

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7.5.1 Antenna FCM EIRP Data

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-7.80	1 / 0	25.17	17.37	54.576	33.01	-15.64
		2535.0	-7.80	1 / 24	25.20	17.40	54.954	33.01	-15.61
		2567.5	-7.80	1 / 12	25.19	17.39	54.828	33.01	-15.62
	16-QAM	2502.5	-7.80	1 / 0	24.20	16.40	43.652	33.01	-16.61
10 MHz	QPSK	2505.0	-7.80	1 / 49	25.00	17.20	52.481	33.01	-15.81
		2535.0	-7.80	1 / 0	25.17	17.37	54.576	33.01	-15.64
		2565.0	-7.80	1 / 0	25.14	17.34	54.200	33.01	-15.67
	16-QAM	2535.0	-7.80	1 / 0	24.15	16.35	43.152	33.01	-16.66
15 MHz	QPSK	2507.5	-7.80	1 / 0	25.08	17.28	53.456	33.01	-15.73
		2535.0	-7.80	1 / 74	25.01	17.21	52.602	33.01	-15.80
		2562.5	-7.80	1 / 0	25.16	17.36	54.450	33.01	-15.65
	16-QAM	2562.5	-7.80	1 / 74	24.20	16.40	43.652	33.01	-16.61
20 MHz	QPSK	2510.0	-7.80	1 / 50	25.20	17.40	54.954	33.01	-15.61
		2535.0	-7.80	1 / 50	24.99	17.19	52.360	33.01	-15.82
		2560.0	-7.80	1 / 99	25.10	17.30	53.703	33.01	-15.71
	16-QAM	2510.0	-7.80	1 / 99	24.16	16.36	43.251	33.01	-16.65

Table 7-2. Antenna FCM EIRP Data (LTE Band 7)


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LTE Band 41

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-6.30	1 / 24	25.80	19.50	89.125	33.01	-13.51
		2593.0	-6.30	1 / 24	25.03	18.73	74.645	33.01	-14.28
		2687.5	-6.30	1 / 12	25.20	18.90	77.625	33.01	-14.11
	16-QAM	2498.5	-6.30	1 / 0	25.13	18.83	76.384	33.01	-14.18
10 MHz	QPSK	2501.0	-6.30	1 / 49	25.07	18.77	75.336	33.01	-14.24
		2593.0	-6.30	1 / 25	25.19	18.89	77.446	33.01	-14.12
		2685.0	-6.30	1 / 25	24.97	18.67	73.621	33.01	-14.34
	16-QAM	2685.0	-6.30	1 / 25	24.27	17.97	62.661	33.01	-15.04
15 MHz	QPSK	2503.5	-6.30	1 / 37	25.05	18.75	74.989	33.01	-14.26
		2593.0	-6.30	1 / 74	25.03	18.73	74.645	33.01	-14.28
		2682.5	-6.30	1 / 74	25.19	18.89	77.446	33.01	-14.12
	16-QAM	2503.5	-6.30	1 / 0	24.23	17.93	62.087	33.01	-15.08
20 MHz	QPSK	2506.0	-6.30	1 / 99	25.19	18.89	77.446	33.01	-14.12
		2593.0	-6.30	1 / 99	25.19	18.89	77.446	33.01	-14.12
		2680.0	-6.30	1 / 0	25.18	18.88	77.268	33.01	-14.13
	16-QAM	2506.0	-6.30	1 / 99	24.15	17.85	60.954	33.01	-15.16

Table 7-3. Antenna FCM EIRP Data (LTE Band 41)


FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-04.BCG	Test Dates: 4/4/2025 - 7/21/2025	EUT Type: Watch	Page 90 of 112

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NR Band n7

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2502.5	-7.80	1 / 1	25.09	17.29	53.580	33.01	-15.72
		2535.0	-7.80	1 / 1	25.02	17.22	52.723	33.01	-15.79
		2567.5	-7.80	1 / 1	25.14	17.34	54.200	33.01	-15.67
	QPSK	2502.5	-7.80	1 / 23	24.94	17.14	51.761	33.01	-15.87
		2535.0	-7.80	1 / 23	24.89	17.09	51.168	33.01	-15.92
		2567.5	-7.80	1 / 23	25.20	17.40	54.954	33.01	-15.61
	16-QAM	2535.0	-7.80	1 / 1	24.24	16.44	44.055	33.01	-16.57
	64-QAM	2535.0	-7.80	1 / 1	23.15	15.35	34.277	33.01	-17.66
10 MHz	$\pi/2$ BPSK	2505.0	-7.80	1 / 25	25.14	17.34	54.200	33.01	-15.67
		2535.0	-7.80	1 / 1	25.13	17.33	54.075	33.01	-15.68
		2565.0	-7.80	1 / 50	25.20	17.40	54.954	33.01	-15.61
	QPSK	2505.0	-7.80	1 / 50	25.16	17.36	54.450	33.01	-15.65
		2535.0	-7.80	1 / 50	25.19	17.39	54.828	33.01	-15.62
		2565.0	-7.80	1 / 50	25.13	17.33	54.075	33.01	-15.68
	16-QAM	2535.0	-7.80	1 / 25	24.12	16.32	42.855	33.01	-16.69
	64-QAM	2505.0	-7.80	1 / 50	23.24	15.44	34.995	33.01	-17.57
15 MHz	$\pi/2$ BPSK	2507.5	-7.80	1 / 37	25.06	17.26	53.211	33.01	-15.75
		2535.0	-7.80	1 / 73	25.19	17.39	54.828	33.01	-15.62
		2562.5	-7.80	1 / 1	25.20	17.40	54.954	33.01	-15.61
	QPSK	2507.5	-7.80	1 / 37	25.13	17.33	54.075	33.01	-15.68
		2535.0	-7.80	1 / 73	25.12	17.32	53.951	33.01	-15.69
		2562.5	-7.80	1 / 73	25.15	17.35	54.325	33.01	-15.66
	16-QAM	2507.5	-7.80	1 / 1	24.12	16.32	42.855	33.01	-16.69
	64-QAM	2535.0	-7.80	1 / 37	23.20	15.40	34.674	33.01	-17.61
20 MHz	$\pi/2$ BPSK	2510.0	-7.80	1 / 98	25.00	17.20	52.481	33.01	-15.81
		2535.0	-7.80	1 / 1	24.91	17.11	51.404	33.01	-15.90
		2560.0	-7.80	1 / 1	25.20	17.40	54.954	33.01	-15.61
	QPSK	2510.0	-7.80	1 / 98	25.15	17.35	54.325	33.01	-15.66
		2535.0	-7.80	1 / 98	25.14	17.34	54.200	33.01	-15.67
		2560.0	-7.80	1 / 98	25.14	17.34	54.200	33.01	-15.67
	16-QAM	2560.0	-7.80	1 / 1	24.17	16.37	43.351	33.01	-16.64
	64-QAM	2560.0	-7.80	1 / 98	23.18	15.38	34.514	33.01	-17.63

Table 7-4. Antenna FCM EIRP Data (NR Band n7)


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NR Band n41

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
10MHz	$\pi/2$ BPSK	2501.0	-6.30	1 / 25	25.13	18.83	76.384	33.01	-14.18
		2593.0	-6.30	1 / 1	25.11	18.81	76.033	33.01	-14.20
		2685.0	-6.30	1 / 1	25.17	18.87	77.090	33.01	-14.14
	QPSK	2501.0	-6.30	1 / 25	25.20	18.90	77.625	33.01	-14.11
		2593.0	-6.30	1 / 49	25.06	18.76	75.162	33.01	-14.25
		2685.0	-6.30	1 / 49	25.16	18.86	76.913	33.01	-14.15
	16-QAM	2593.0	-6.30	1 / 49	24.22	17.92	61.944	33.01	-15.09
	64-QAM	2501.0	-6.30	1 / 25	23.20	16.90	48.978	33.01	-16.11
15MHz	$\pi/2$ BPSK	2503.5	-6.30	1 / 1	24.88	18.58	72.111	33.01	-14.43
		2593.0	-6.30	1 / 1	24.97	18.67	73.621	33.01	-14.34
		2682.5	-6.30	1 / 39	25.20	18.90	77.625	33.01	-14.11
	QPSK	2503.5	-6.30	1 / 39	24.95	18.65	73.282	33.01	-14.36
		2593.0	-6.30	1 / 39	25.18	18.88	77.268	33.01	-14.13
		2682.5	-6.30	1 / 1	24.99	18.69	73.961	33.01	-14.32
	16-QAM	2682.5	-6.30	1 / 1	24.19	17.89	61.518	33.01	-15.12
	64-QAM	2593.0	-6.30	1 / 1	23.11	16.81	47.973	33.01	-16.20
20MHz	$\pi/2$ BPSK	2506.0	-6.30	1 / 1	25.19	18.89	77.446	33.01	-14.12
		2593.0	-6.30	1 / 104	25.20	18.90	77.625	33.01	-14.11
		2680.0	-6.30	1 / 53	25.07	18.77	75.336	33.01	-14.24
	QPSK	2506.0	-6.30	1 / 1	25.16	18.86	76.913	33.01	-14.15
		2593.0	-6.30	1 / 1	25.07	18.77	75.336	33.01	-14.24
		2680.0	-6.30	1 / 53	25.05	18.75	74.989	33.01	-14.26
	16-QAM	2506.0	-6.30	1 / 53	24.25	17.95	62.373	33.01	-15.06
	64-QAM	2680.0	-6.30	1 / 1	23.17	16.87	48.641	33.01	-16.14

Table 7-5. Antenna FCM EIRP Data (NR Band n41)

FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

Test Overview


Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

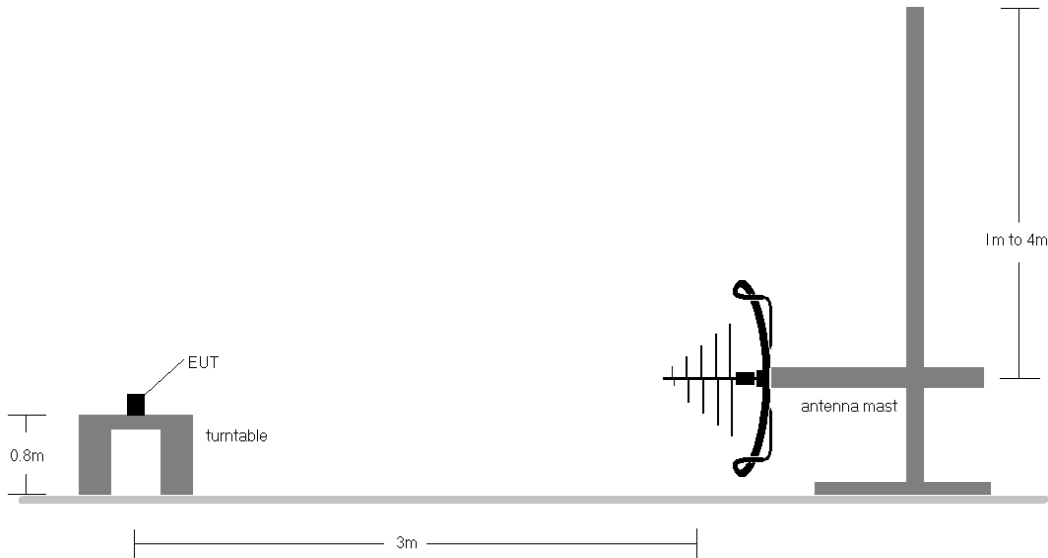


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

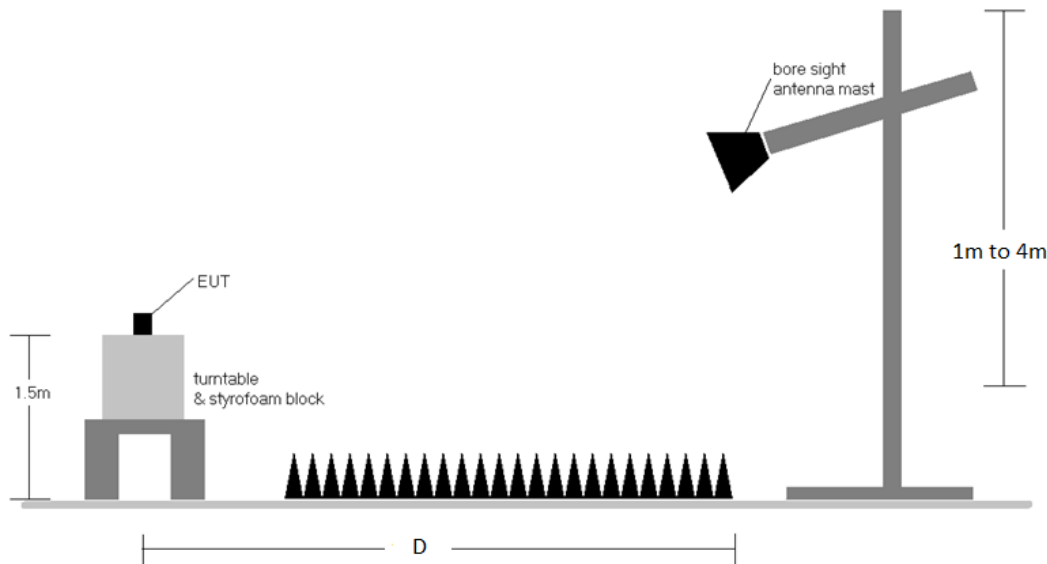




Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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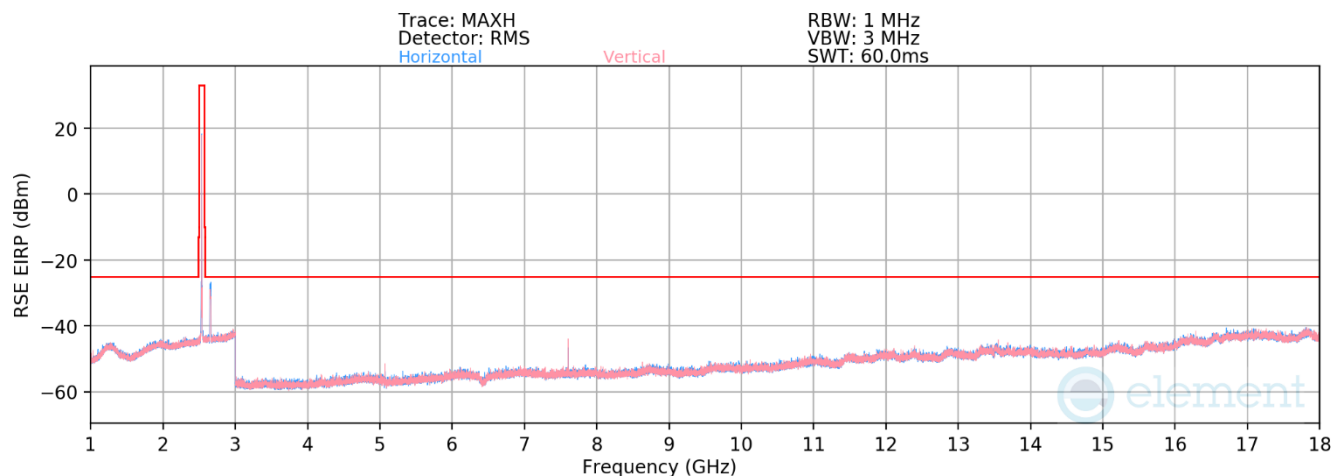
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

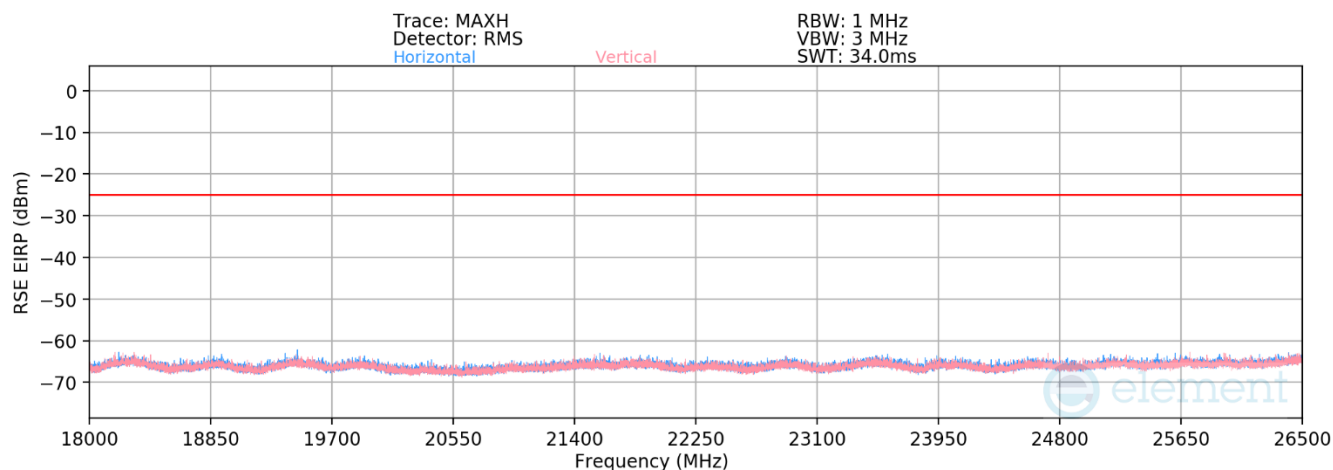
FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7



Plot 7-129. Antenna FCM Radiated Spurious Plot 1-18GHz (LTE Band 7)



Plot 7-130. Antenna FCM Radiated Spurious Emission above 18GHz (LTE Band 7)

FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	103	146	-69.87	5.76	42.89	-52.37	-25.00	-27.37
7530.0	V	359	220	-70.83	8.40	44.58	-50.68	-25.00	-25.68
10040.0	V	-	-	-81.13	10.89	36.76	-58.50	-25.00	-33.50
12550.0	V	-	-	-82.42	15.65	40.23	-55.03	-25.00	-30.03
15060.0	V	-	-	-82.66	17.95	42.30	-52.96	-25.00	-27.96

Table 7-6. Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	103	149	-72.52	5.70	40.18	-55.08	-25.00	-30.08
7605.0	V	316	213	-69.67	8.88	46.21	-49.04	-25.00	-24.04
10140.0	V	-	-	-81.04	11.29	37.25	-58.00	-25.00	-33.00
12675.0	H	-	-	-82.07	16.20	41.14	-54.12	-25.00	-29.12
15210.0	V	-	-	-82.92	19.24	43.33	-51.93	-25.00	-26.93

Table 7-7. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

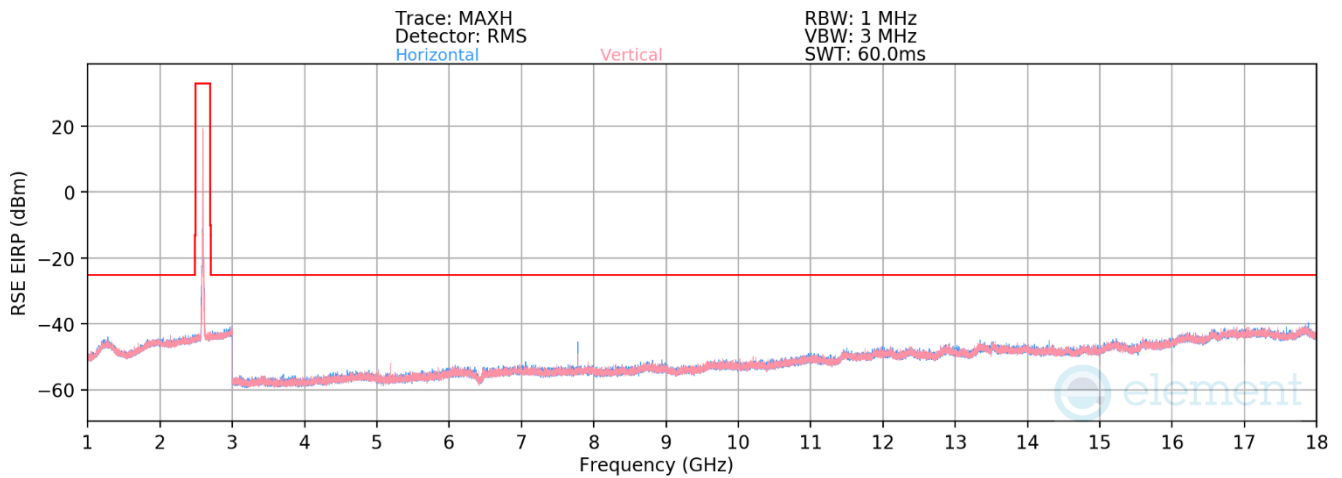
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	106	155	-74.83	5.81	37.97	-57.28	-25.00	-32.28
7680.00	V	360	222	-72.82	9.21	43.39	-51.86	-25.00	-26.86
10240.00	H	-	-	-81.46	11.63	37.17	-58.09	-25.00	-33.09
12800.00	H	-	-	-82.72	16.22	40.51	-54.75	-25.00	-29.75
15360.00	V	-	-	-83.34	18.71	42.37	-52.89	-25.00	-27.89

Table 7-8. Radiated Spurious Data (LTE Band 7 – High Channel)

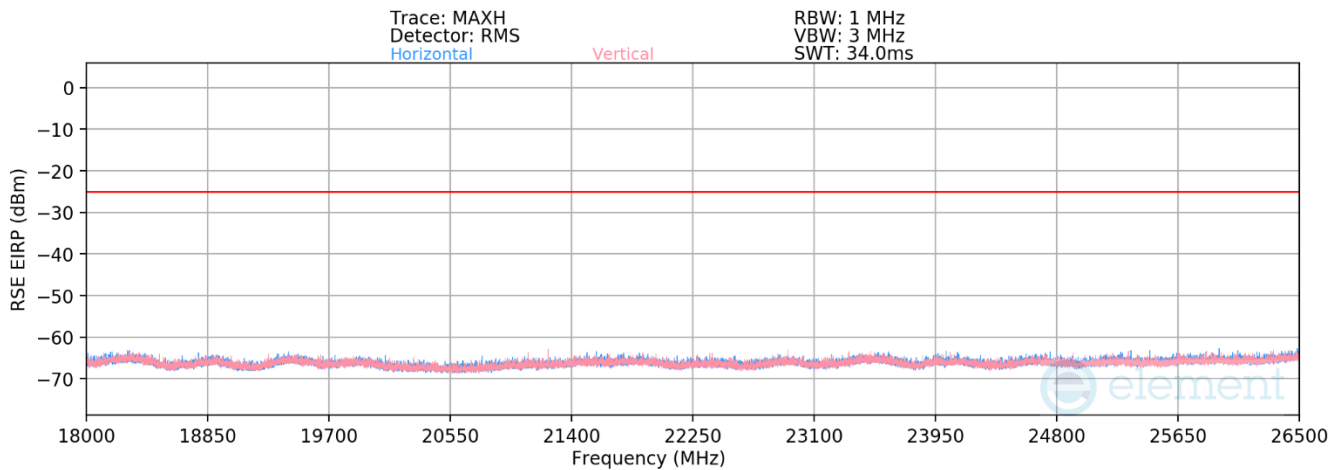
FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41



Plot 7-131. Antenna FCM Radiated Spurious Plot 1-18GHz (LTE Band 41)



Plot 7-132. Antenna FCM Radiated Spurious Emission above 18GHz (LTE Band 41)

FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	103	203	-71.90	5.76	40.85	-54.40	-25.00	-29.40
7518.0	V	355	233	-72.43	8.91	43.49	-51.77	-25.00	-26.77
10024.0	V	-	-	-80.45	10.80	37.35	-57.91	-25.00	-32.91
12530.0	V	-	-	-82.20	15.69	40.48	-54.77	-25.00	-29.77
15036.0	V	-	-	-82.51	18.16	42.65	-52.60	-25.00	-27.60

Table 7-9. Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	104	171	-74.11	5.77	38.66	-56.60	-25.00	-31.60
7779.0	H	280	173	-68.39	8.70	47.31	-47.95	-25.00	-22.95
10372.0	H	-	-	-81.50	12.29	37.78	-57.47	-25.00	-32.47
12965.0	H	-	-	-82.55	16.73	41.18	-54.07	-25.00	-29.07
15558.0	V	-	-	-82.73	19.53	43.79	-51.46	-25.00	-26.46

Table 7-10. Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

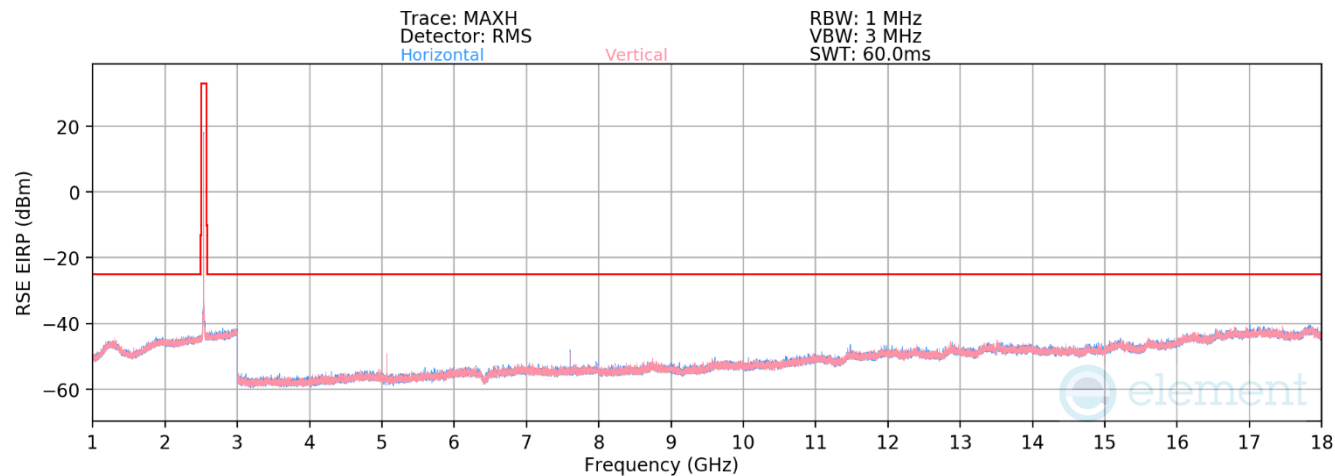
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	117	157	-76.33	5.93	36.60	-58.66	-25.00	-33.66
8040.0	H	113	171	-70.87	8.66	44.79	-50.47	-25.00	-25.47
10720.0	H	-	-	-80.79	12.32	38.53	-56.73	-25.00	-31.73
13400.0	V	-	-	-82.65	17.18	41.53	-53.73	-25.00	-28.73
16080.0	H	-	-	-82.92	21.03	45.10	-50.15	-25.00	-25.15

Table 7-11. Radiated Spurious Data (LTE Band 41 – High Channel)

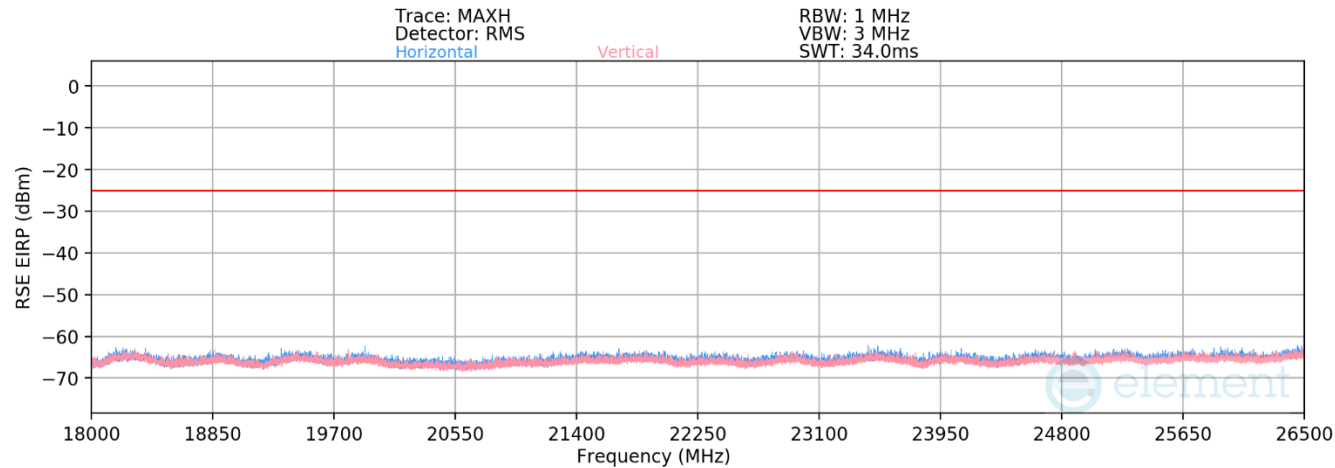
FCC ID: BCG-A3326	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7



Plot 7-133. Antenna FCM Radiated Spurious Plot 1-18GHz (NR Band n7)



Plot 7-134. Antenna FCM Radiated Spurious Emission above 18GHz (NR Band n7)

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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	102	201	-73.66	5.76	39.10	-56.16	-25.00	-31.16
7530.0	V	281	222	-69.93	8.40	45.47	-49.78	-25.00	-24.78
10040.0	V	-	-	-80.97	10.77	36.79	-58.46	-25.00	-33.46
12550.0	V	-	-	-82.56	15.80	40.24	-55.02	-25.00	-30.02
15060.0	V	-	-	-82.82	18.00	42.18	-53.08	-25.00	-28.08

Table 7-12. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	100	145	-70.89	5.70	41.81	-53.45	-25.00	-28.45
7605.0	V	379	216	-72.89	8.88	42.99	-52.27	-25.00	-27.27
10140.0	V	-	-	-81.25	11.29	37.05	-58.21	-25.00	-33.21
12675.0	V	-	-	-82.57	16.35	40.78	-54.48	-25.00	-29.48
15210.0	V	-	-	-82.48	18.70	43.23	-52.03	-25.00	-27.03

Table 7-13. Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

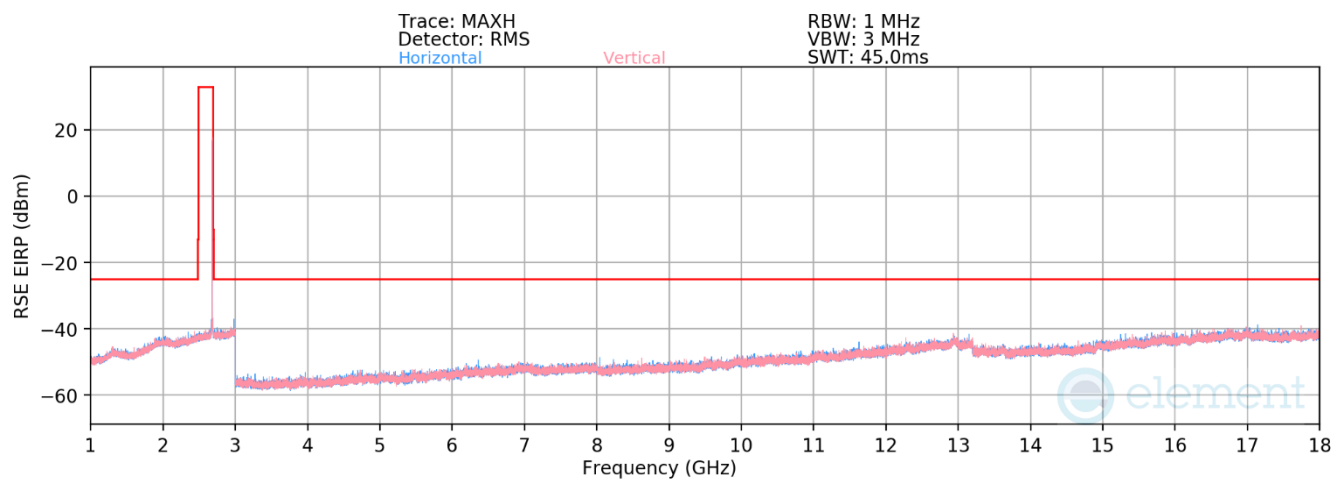
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	V	102	175	-78.21	5.81	34.60	-60.66	-25.00	-35.66
7680.0	H	100	158	-76.54	9.21	39.67	-55.58	-25.00	-30.58
10240.0	H	-	-	-81.10	11.23	37.13	-58.13	-25.00	-33.13
12800.0	V	-	-	-82.72	16.22	40.50	-54.75	-25.00	-29.75
15360.0	H	-	-	-83.25	18.81	42.56	-52.70	-25.00	-27.70

Table 7-14. Radiated Spurious Data (NR Band n7 – High Channel)

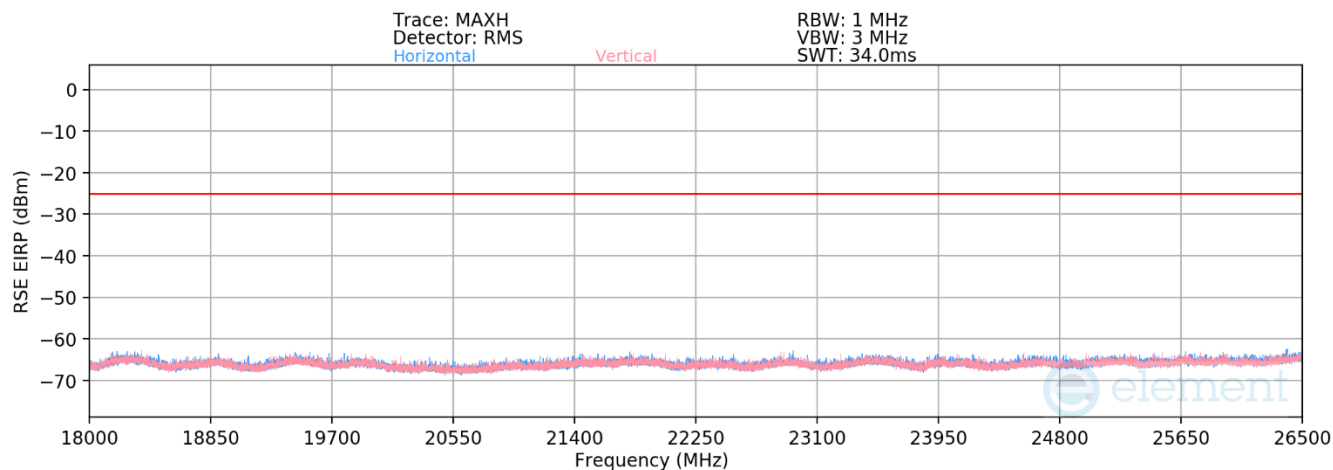
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NR Band n41



Plot 7-135. Antenna FCM Radiated Spurious Plot 1-18GHz (NR Band n41)



Plot 7-136. Antenna FCM Radiated Spurious Emission above 18GHz (NR Band n41)

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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	134	198	-79.12	8.07	35.95	-59.31	-25.00	-34.31
7518.0	V	304	222	-69.87	11.29	48.41	-46.84	-25.00	-21.84
10024.0	V	-	-	-81.83	14.04	39.21	-56.05	-25.00	-31.05
12530.0	V	-	-	-82.97	18.09	42.13	-53.13	-25.00	-28.13
15036.0	H	-	-	-83.45	20.69	44.25	-51.01	-25.00	-26.01

Table 7-15. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1/25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	105	175	-74.25	5.73	38.48	-56.78	-25.00	-31.78
7530.0	V	265	227	-72.62	8.45	42.83	-52.42	-25.00	-27.42
10040.0	V	-	-	-80.19	10.77	37.59	-57.67	-25.00	-32.67
12550.0	V	-	-	-81.80	15.73	40.93	-54.33	-25.00	-29.33
15060.0	V	-	-	-82.07	18.16	43.09	-52.17	-25.00	-27.17

Table 7-16. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-80.50	8.71	35.21	-60.05	-25.00	-35.05
7779.0	V	291	246	-73.46	11.27	44.81	-50.45	-25.00	-25.45
10372.0	V	-	-	-81.88	15.11	40.23	-55.03	-25.00	-30.03
12965.0	V	-	-	-83.25	20.26	44.01	-51.24	-25.00	-26.24
15558.0	V	-	-	-83.16	21.48	45.32	-49.94	-25.00	-24.94

Table 7-17. Radiated Spurious Data (NR Band n41 – High Channel)

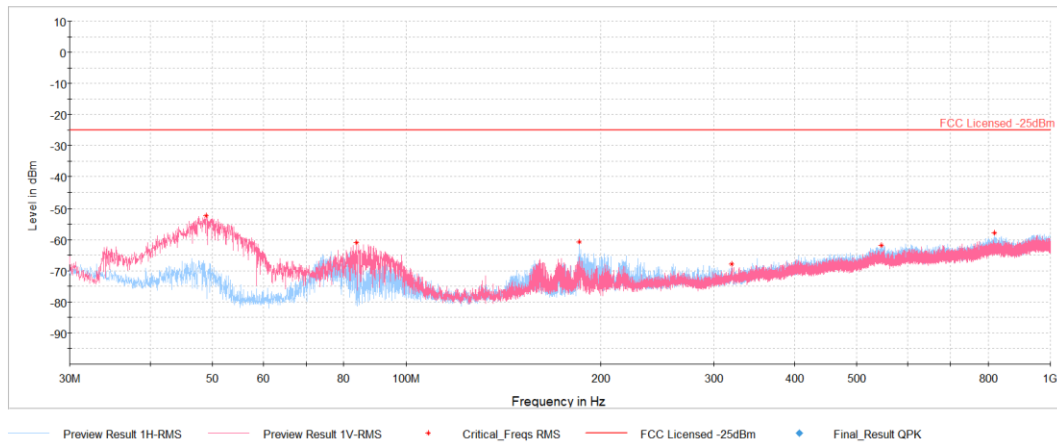
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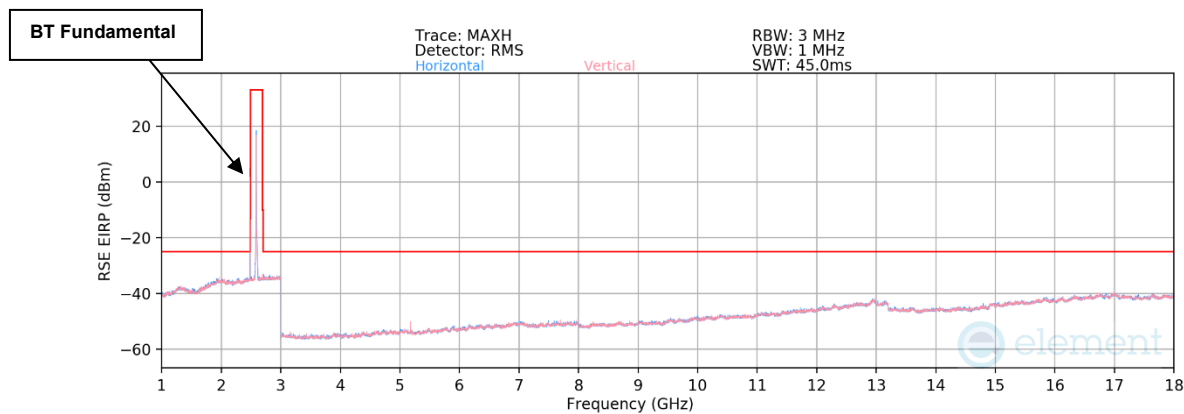
7.6.1 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	Bluetooth	LTE (Band 41)
Antenna	Antenna FCM	Antenna FCM
Channel	78	40620
Operating Frequency (MHz)	2480	2593
Mode/Modulation	GFSK ePA	QPSK/1RB/10MHz


Table 7-18. Worst Case Simultaneous Transmission Configuration



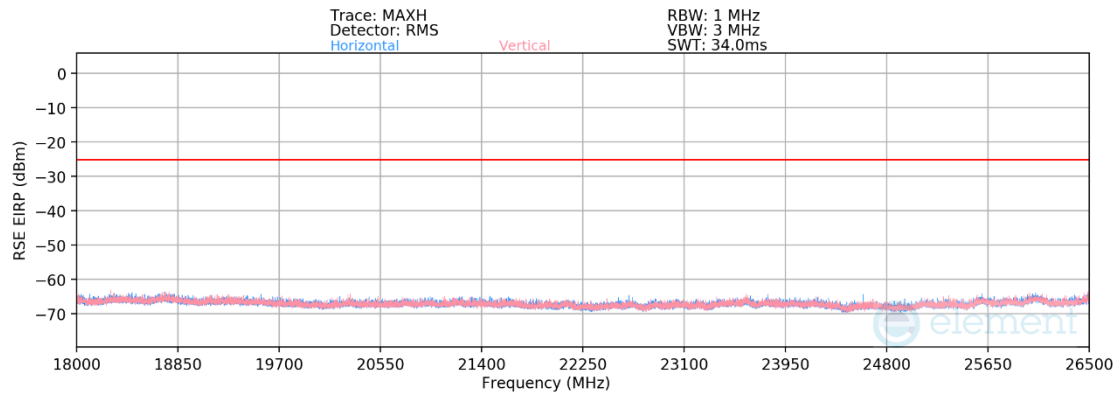
Plot 7-137. Radiated Spurious Emissions - Simultaneous Transmission 30MHz – 1GHz




Plot 7-138. Radiated Spurious Emissions - Simultaneous Transmission 1GHz – 18GHz

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Plot 7-139. Radiated Spurious Emissions - Simultaneous Transmission Above 18GHz

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Peak	V	-	-	-71.01	8.25	44.24	73.98	-29.74
7440.00	Peak	V	-	-	-71.23	11.31	47.08	73.98	-26.90
12400.00	Peak	V	-	-	-71.46	17.79	53.33	73.98	-20.65

Table 7-19. BT Harmonics Emissions Measurements in Simultaneous Transmission Mode

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7767.0	V	299	227	-74.21	15.31	48.10	-47.16	-25.00	-22.16
10356.0	-	-	-	-81.59	14.91	40.32	-54.94	-25.00	-29.94
12945.0	-	-	-	-82.92	20.20	44.28	-50.97	-25.00	-25.97
15534.0	-	-	-	-83.03	21.52	45.49	-49.77	-25.00	-24.77
2371*	-	-	-	-77.49	11.01	40.52	-54.74	-25.00	-29.74
2698*	V	391	167	-63.30	19.48	63.18	-32.08	-25.00	-7.08

Table 7-20. LTE-b41PC3 Harmonics and Intermodulation(*) Emissions Measurements in Simultaneous Transmission Mode

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7.7 Frequency Stability / Temperature Variation

\$2.1055, \$27.54

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and 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.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

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.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.

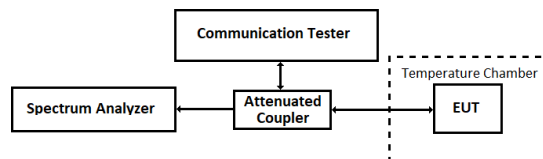


Figure 7-11. LTE Test Instrument & Measurement Setup

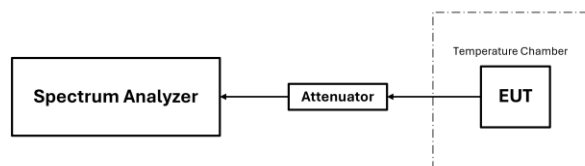



Figure 7-12. FR1 Test Instrument & Measurement Setup

Test Notes

1. None.

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Frequency Stability / Temperature Variation

LTE Band 7				
Operating Band Lower Boundary (GHz)			2.500	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5003143	-0.0003143
		- 20	2.5008765	-0.0008765
		- 10	2.5001298	-0.0001298
		0	2.5007039	-0.0007039
		+ 10	2.5005914	-0.0005914
		+ 20 (Ref)	2.5004173	-0.0004172
		+ 30	2.5002387	-0.0002387
		+ 40	2.5008275	-0.0008275
		+ 50	2.5000532	-0.0000532
Battery Endpoint	3.40	+ 20	2.5007726	-0.0007726

Table 7-21. Lower Boundary LTE Band 7 Frequency Stability Data

LTE Band 7				
Operating Band Upper Boundary (GHz)			2.570	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5690075	-0.0009925
		- 20	2.5690832	-0.0009168
		- 10	2.5690514	-0.0009486
		0	2.5690229	-0.0009771
		+ 10	2.5690947	-0.0009054
		+ 20 (Ref)	2.5690391	-0.0009609
		+ 30	2.5690765	-0.0009235
		+ 40	2.5690059	-0.0009941
		+ 50	2.5690673	-0.0009327
Battery Endpoint	3.40	+ 20	2.5690138	-0.0009862

Table 7-22. Upper Boundary LTE Band 7 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 41				
Operating Band Lower Boundary (GHz)			2.496	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.4962765	-0.0002765
		- 20	2.4966782	-0.0006782
		- 10	2.4960438	-0.0000437
		0	2.4965896	-0.0005896
		+ 10	2.4961321	-0.0001321
		+ 20 (Ref)	2.4967551	-0.0007551
		+ 30	2.4964173	-0.0004173
		+ 40	2.4966973	-0.0006973
		+ 50	2.4962256	-0.0002256
Battery Endpoint	3.40	+ 20	2.4966342	-0.0006342

Table 7-23. Lower Boundary LTE Band 41 Frequency Stability Data

LTE Band 41				
Operating Band Upper Boundary (GHz)			2.690	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.6893714	-0.0006286
		- 20	2.6898294	-0.0001706
		- 10	2.6891285	-0.0008715
		0	2.6896921	-0.0003079
		+ 10	2.6895848	-0.0004152
		+ 20 (Ref)	2.6890453	-0.0009547
		+ 30	2.6897438	-0.0002562
		+ 40	2.6892065	-0.0007935
		+ 50	2.6896574	-0.0003426
Battery Endpoint	3.40	+ 20	2.6894903	-0.0005097

Table 7-24. Upper Boundary LTE Band 41 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n7				
Operating Band Lower Boundary (GHz)			2.500	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5001850	-0.0001849
		- 20	2.5006482	-0.0006482
		- 10	2.5003827	-0.0003827
		0	2.5009191	-0.0009191
		+ 10	2.5000973	-0.0000973
		+ 20 (Ref)	2.5005372	-0.0005372
		+ 30	2.5002895	-0.0002895
		+ 40	2.5006851	-0.0006851
		+ 50	2.5004567	-0.0004567
Battery Endpoint	3.40	+ 20	2.5008419	-0.0008419

Table 7-25. Lower Boundary NR Band n7 Frequency Stability Data

NR Band n7				
Operating Band Upper Boundary (GHz)			2.570	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5690864	-0.0009136
		- 20	2.5690275	-0.0009725
		- 10	2.5690610	-0.0009390
		0	2.5690101	-0.0009899
		+ 10	2.5690801	-0.0009199
		+ 20 (Ref)	2.5690423	-0.0009577
		+ 30	2.5690187	-0.0009813
		+ 40	2.5690732	-0.0009268
		+ 50	2.5690326	-0.0009674
Battery Endpoint	3.40	+ 20	2.5690558	-0.0009442

Table 7-26. Upper Boundary NR Band n7 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n41				
		Operating Band Lower Boundary (GHz)	2.496	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.4961235	-0.0001235
		- 20	2.4967891	-0.0007891
		- 10	2.4960459	-0.0000459
		0	2.4966524	-0.0006524
		+ 10	2.4963074	-0.0003074
		+ 20 (Ref)	2.4968248	-0.0008248
		+ 30	2.4961905	-0.0001905
		+ 40	2.4965403	-0.0005403
		+ 50	2.4960918	-0.0000918
Battery Endpoint	3.40	+ 20	2.4967120	-0.0007120

Table 7-27. Lower Boundary NR Band n41 Frequency Stability Data

NR Band n41				
		Operating Band Upper Boundary (GHz)	2.690	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.6890996	-0.0009004
		- 20	2.6898210	-0.0001790
		- 10	2.6893147	-0.0006853
		0	2.6896754	-0.0003246
		+ 10	2.6891533	-0.0008467
		+ 20 (Ref)	2.6897029	-0.0002971
		+ 30	2.6894277	-0.0005723
		+ 40	2.6890669	-0.0009331
		+ 50	2.6895902	-0.0004098
Battery Endpoint	3.40	+ 20	2.6892498	-0.0007502

Table 7-28. Upper Boundary NR Band n41 Frequency Stability Data


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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Watch** **FCC ID: BCG-A3326** complies with all the requirements of Part 27 of the FCC rules.

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