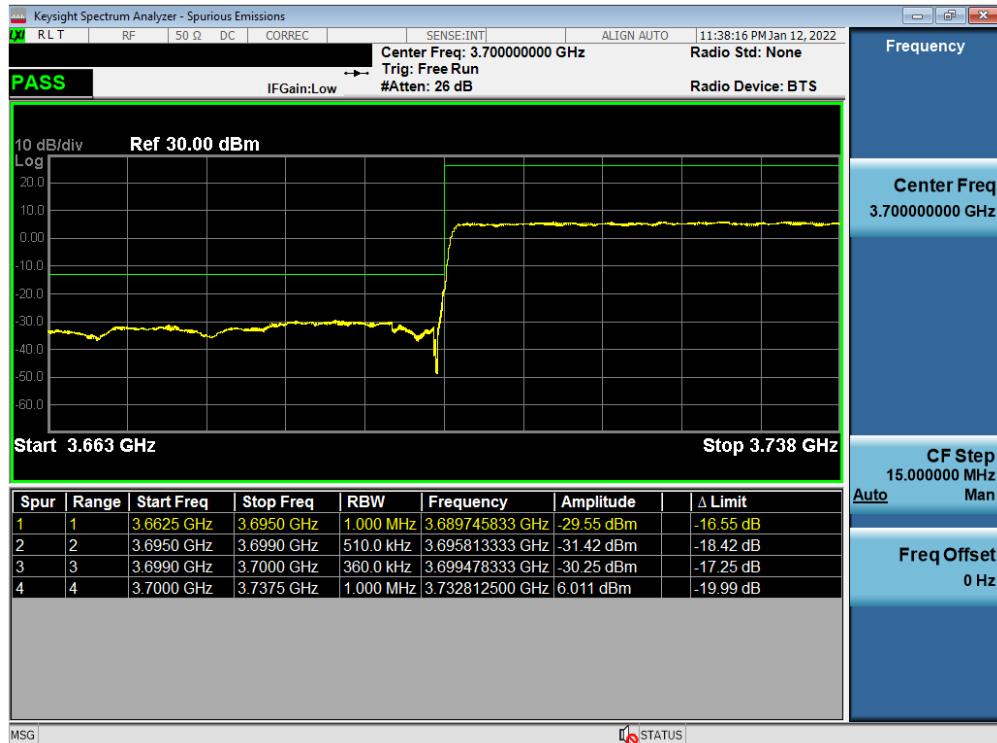


Plot 7-223. Lower ACP Plot (NR Band n77 C-Band - 50MHz DFT-s-OFDM QPSK- Full RB)

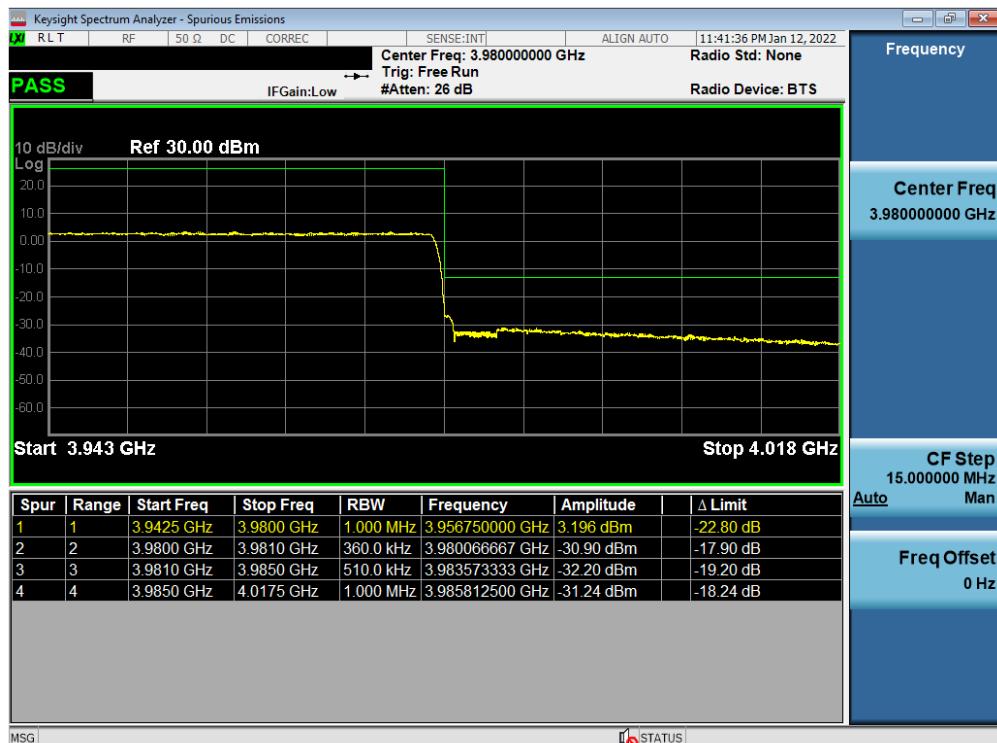


Plot 7-224. Upper ACP Plot (NR Band n77 C-Band - 50MHz CP-OFDM QPSK- Full RB)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device			

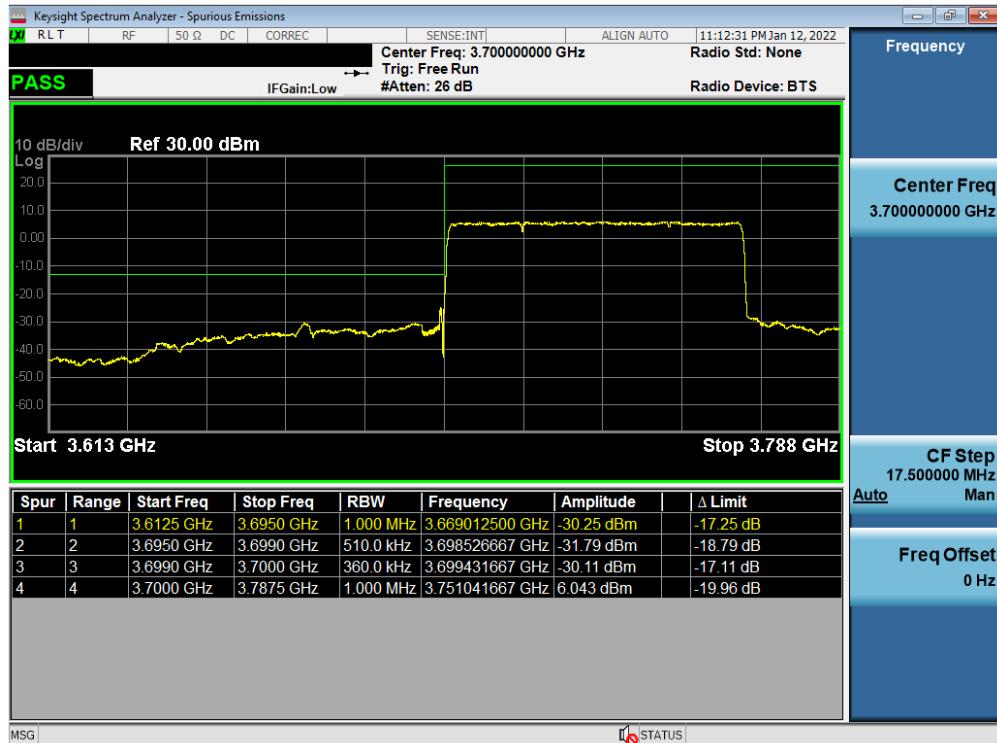


Plot 7-225. Lower ACP Plot (NR Band n77 C-Band - 60MHz DFT-s-OFDM QPSK– Full RB)



Plot 7-226. Upper ACP Plot (NR Band n77 C-Band - 60MHz CP-OFDM QPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device			Page 136 of 174



Plot 7-227. Lower ACP Plot (NR Band n77 C-Band - 70MHz DFT-s-OFDM π/2 BPSK – Full RB)



Plot 7-228. Upper ACP Plot (NR Band n77 C-Band - 70MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device			Page 137 of 174



Plot 7-229. Lower ACP Plot (NR Band n77 C-Band - 80MHz DFT-s-OFDM QPSK – Full RB)

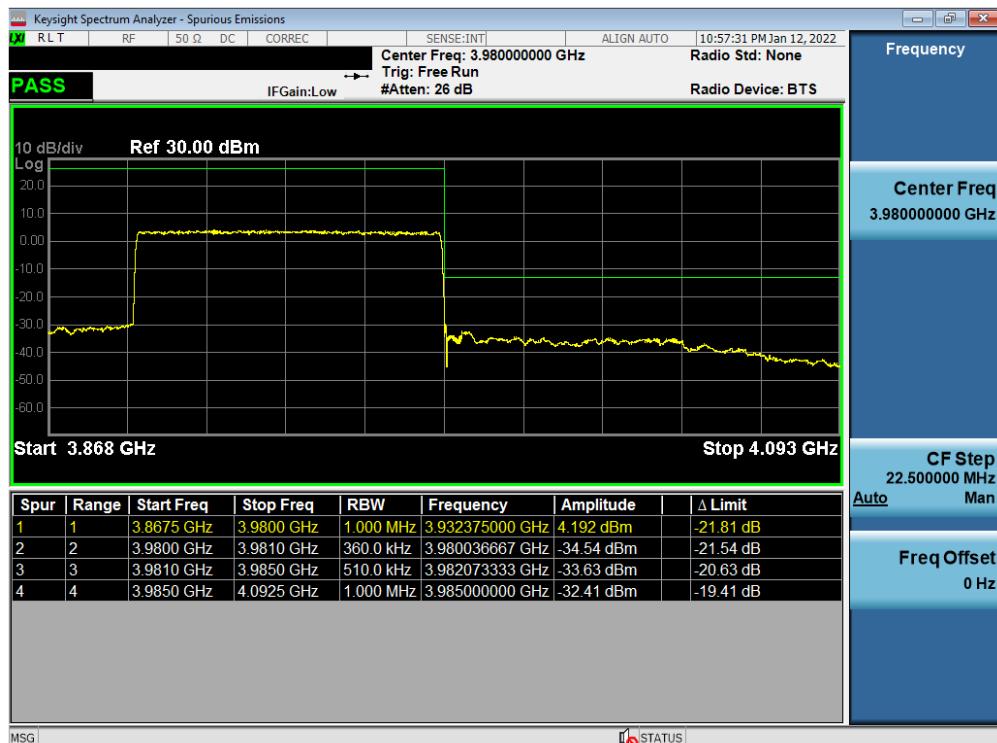


Plot 7-230. Upper ACP Plot (NR Band n77 C-Band - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device			

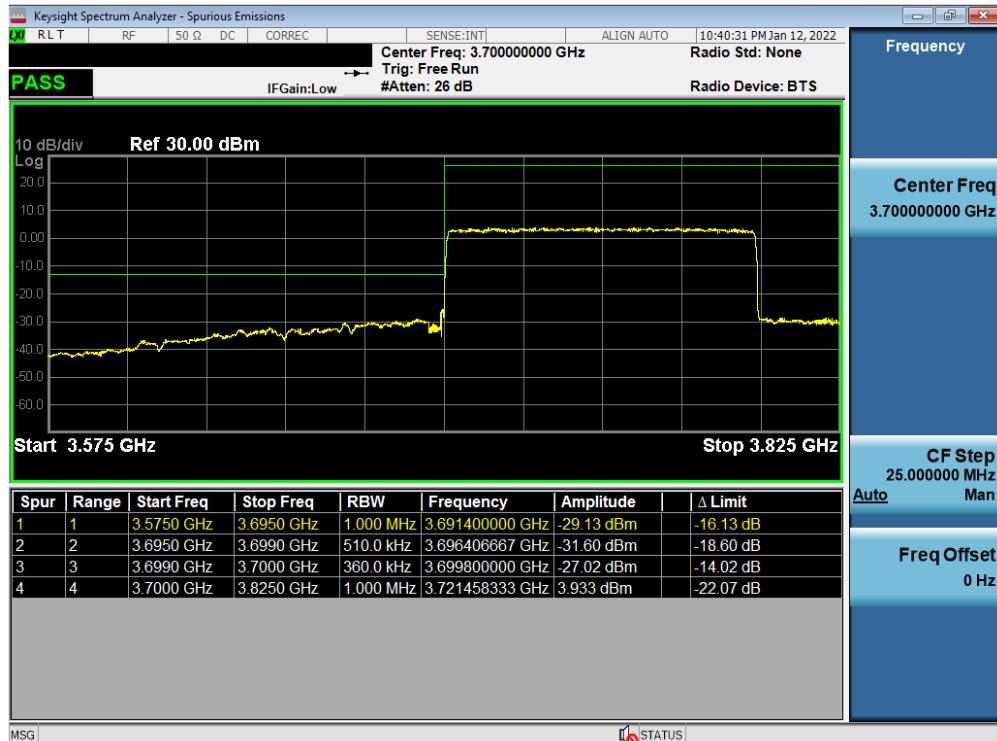


Plot 7-231. Lower ACP Plot (NR Band n77 C-Band - 90MHz DFT-s-OFDM π/2 BPSK – Full RB)

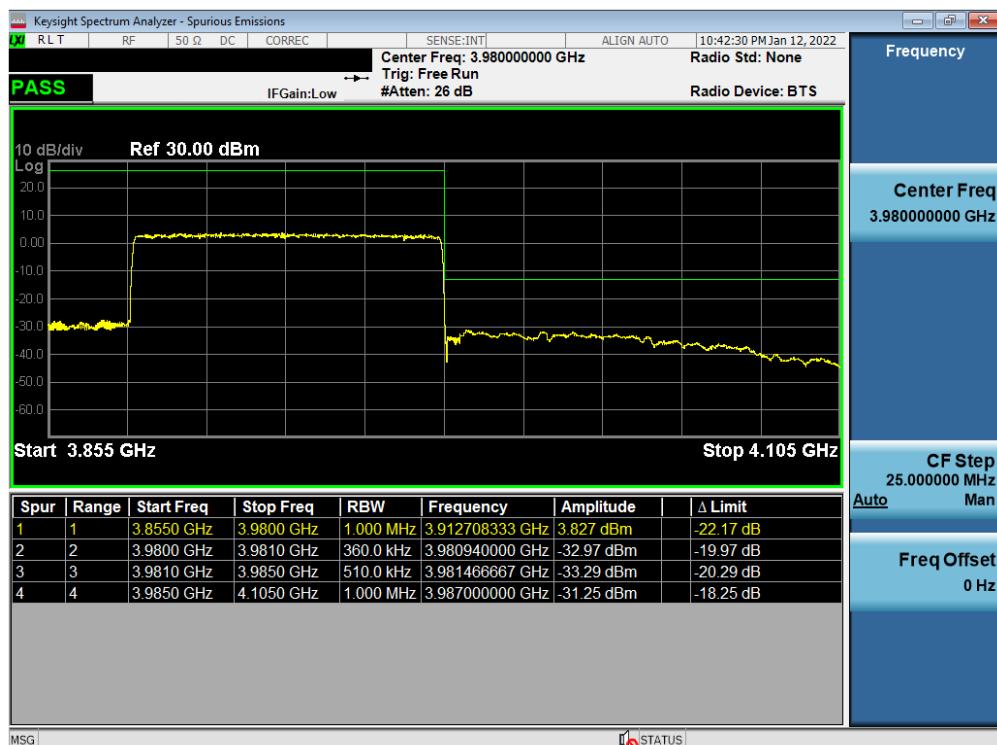


Plot 7-232. Upper ACP Plot (NR Band n77 C-Band - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device			



Plot 7-233. Lower ACP Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM QPSK – Full RB)



Plot 7-234. Upper ACP Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 140 of 174	

## 7.6 Radiated Power (EIRP)

§27.50(j)(3), §27.50(k)(3)

### 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:

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

Where:

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

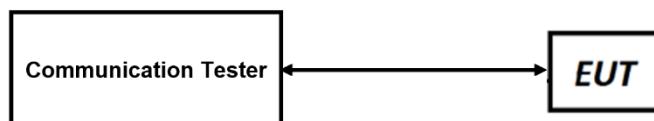
PMes = measured transmitter output power or PSD, in dBW or dBm

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

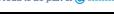
The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. EIRP Measurement Setup**

### 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. 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: BCGA2589	 <b>PCTEST®</b> Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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## 7.6.1 Antenna 3b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	3.10	1 / 48	25.82	28.92	0.780	30.00	-1.08
		3500.0	3.10	1 / 1	25.85	28.95	0.785	30.00	-1.05
		3540.0	3.10	1 / 1	25.90	29.00	0.794	30.00	-1.00
	QPSK	3460.0	3.10	1 / 48	25.60	28.70	0.741	30.00	-1.30
		3500.0	3.10	1 / 25	25.89	28.99	0.793	30.00	-1.01
		3540.0	3.10	1 / 48	25.85	28.95	0.785	30.00	-1.05
	16-QAM	3500.0	3.10	1 / 25	24.86	27.96	0.625	30.00	-2.04
	64-QAM	3460.0	3.10	1 / 48	23.87	26.97	0.498	30.00	-3.03
	256-QAM	3500.0	3.10	1 / 1	20.88	23.98	0.250	30.00	-6.02
	π/2 BPSK	3465.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3500.0	3.10	1 / 1	25.90	29.00	0.794	30.00	-1.00
		3535.0	3.10	1 / 39	25.83	28.93	0.782	30.00	-1.07
30 MHz	QPSK	3465.0	3.10	1 / 76	25.83	28.93	0.782	30.00	-1.07
		3500.0	3.10	1 / 1	25.61	28.71	0.743	30.00	-1.29
		3535.0	3.10	1 / 39	25.81	28.91	0.778	30.00	-1.09
	16-QAM	3465.0	3.10	1 / 1	24.90	28.00	0.631	30.00	-2.00
	64-QAM	3500.0	3.10	1 / 1	23.85	26.95	0.495	30.00	-3.05
	256-QAM	3465.0	3.10	1 / 39	20.97	24.07	0.255	30.00	-5.93
	π/2 BPSK	3470.0	3.10	1 / 50	25.67	28.77	0.753	30.00	-1.23
		3500.0	3.10	1 / 98	25.83	28.93	0.782	30.00	-1.07
		3530.0	3.10	1 / 98	25.70	28.80	0.759	30.00	-1.20
40 MHz	QPSK	3470.0	3.10	1 / 50	25.74	28.84	0.766	30.00	-1.16
		3500.0	3.10	1 / 50	25.87	28.97	0.789	30.00	-1.03
		3530.0	3.10	1 / 98	25.90	29.00	0.794	30.00	-1.00
	16-QAM	3500.0	3.10	1 / 98	24.92	28.02	0.634	30.00	-1.98
	64-QAM	3500.0	3.10	1 / 1	23.91	27.01	0.502	30.00	-2.99
	256-QAM	3500.0	3.10	1 / 50	20.94	24.04	0.254	30.00	-5.96
	π/2 BPSK	3475.0	3.10	1 / 1	25.89	28.99	0.793	30.00	-1.01
		3500.0	3.10	1 / 64	25.87	28.97	0.789	30.00	-1.03
		3525.0	3.10	1 / 64	25.90	29.00	0.794	30.00	-1.00
50 MHz	QPSK	3475.0	3.10	1 / 126	25.83	28.93	0.782	30.00	-1.07
		3500.0	3.10	1 / 126	25.84	28.94	0.783	30.00	-1.06
		3525.0	3.10	1 / 126	25.78	28.88	0.773	30.00	-1.12
	16-QAM	3475.0	3.10	1 / 1	24.91	28.01	0.632	30.00	-1.99
	64-QAM	3475.0	3.10	1 / 64	23.92	27.02	0.504	30.00	-2.98
	256-QAM	3475.0	3.10	1 / 1	20.97	24.07	0.255	30.00	-5.93
	π/2 BPSK	3480.0	3.10	1 / 1	25.89	28.99	0.793	30.00	-1.01
		3500.0	3.10	1 / 162	25.75	28.85	0.767	30.00	-1.15
		3520.0	3.10	1 / 162	25.90	29.00	0.794	30.00	-1.00
60 MHz	QPSK	3480.0	3.10	1 / 1	25.87	28.97	0.789	30.00	-1.03
		3500.0	3.10	1 / 1	25.75	28.85	0.767	30.00	-1.15
		3520.0	3.10	1 / 1	25.70	28.80	0.759	30.00	-1.20
	16-QAM	3500.0	3.10	1 / 162	24.90	28.00	0.631	30.00	-2.00
	64-QAM	3480.0	3.10	1 / 1	23.83	26.93	0.493	30.00	-3.07
	256-QAM	3500.0	3.10	1 / 162	21.02	24.12	0.258	30.00	-5.88
	π/2 BPSK	3485.0	3.10	1 / 1	25.58	28.68	0.738	30.00	-1.32
		3500.0	3.10	1 / 187	25.90	29.00	0.794	30.00	-1.00
		3515.0	3.10	1 / 90	25.73	28.83	0.764	30.00	-1.17
70 MHz	QPSK	3485.0	3.10	1 / 1	25.86	28.96	0.787	30.00	-1.04
		3500.0	3.10	1 / 1	25.84	28.94	0.783	30.00	-1.06
		3515.0	3.10	1 / 90	25.76	28.86	0.769	30.00	-1.14
	16-QAM	3500.0	3.10	1 / 187	24.82	27.92	0.619	30.00	-2.08
	64-QAM	3500.0	3.10	1 / 187	23.89	26.99	0.500	30.00	-3.01
	256-QAM	3500.0	3.10	1 / 1	20.98	24.08	0.256	30.00	-5.92
	π/2 BPSK	3490.0	3.10	1 / 214	25.74	28.84	0.766	30.00	-1.16
		3500.0	3.10	1 / 108	25.69	28.79	0.757	30.00	-1.21
		3510.0	3.10	1 / 214	25.86	28.96	0.787	30.00	-1.04
80 MHz	QPSK	3490.0	3.10	1 / 214	25.77	28.87	0.771	30.00	-1.13
		3500.0	3.10	1 / 108	25.78	28.88	0.773	30.00	-1.12
		3510.0	3.10	1 / 1	25.90	29.00	0.794	30.00	-1.00
	16-QAM	3490.0	3.10	1 / 108	24.82	27.92	0.619	30.00	-2.08
	64-QAM	3490.0	3.10	1 / 1	23.89	26.99	0.500	30.00	-3.01
	256-QAM	3490.0	3.10	1 / 108	20.99	24.09	0.256	30.00	-5.91
	π/2 BPSK	3495.0	3.10	1 / 1	25.79	28.89	0.774	30.00	-1.11
		3500.0	3.10	1 / 1	25.86	28.96	0.787	30.00	-1.04
		3505.0	3.10	1 / 1	25.55	28.65	0.733	30.00	-1.35
90 MHz	QPSK	3495.0	3.10	1 / 120	25.90	29.00	0.794	30.00	-1.00
		3500.0	3.10	1 / 120	25.90	29.00	0.794	30.00	-1.00
		3505.0	3.10	1 / 1	25.67	28.77	0.753	30.00	-1.23
	16-QAM	3495.0	3.10	1 / 1	24.87	27.97	0.627	30.00	-2.03
	64-QAM	3500.0	3.10	1 / 238	23.92	27.02	0.504	30.00	-2.98
	256-QAM	3500.0	3.10	1 / 1	20.97	24.07	0.255	30.00	-5.93
	π/2 BPSK	3500.0	3.10	1 / 135	25.83	28.93	0.782	30.00	-1.07
	QPSK	3500.0	3.10	1 / 1	25.90	29.00	0.794	30.00	-1.00
	16-QAM	3500.0	3.10	1 / 268	24.93	28.03	0.635	30.00	-1.97
	64-QAM	3500.0	3.10	1 / 135	23.93	27.03	0.505	30.00	-2.97
	256-QAM	3500.0	3.10	1 / 1	20.98	24.08	0.256	30.00	-5.92

**Table 7-2. Antenna 3b EIRP Data (NR Band n77 (PC2) – DoD Band)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device				Page 142 of 174	
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	3.10	1 / 1	25.69	28.79	0.757	30.00	-1.21
		3500.0	3.10	1 / 48	25.43	28.53	0.713	30.00	-1.47
		3540.0	3.10	1 / 25	25.61	28.71	0.743	30.00	-1.29
	QPSK	3460.0	3.10	1 / 25	25.50	28.60	0.724	30.00	-1.40
		3500.0	3.10	1 / 48	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3540.0	3.10	1 / 48	25.68	28.78	0.755	30.00	-1.22
	16-QAM	3460.0	3.10	1 / 25	24.70	27.80	0.603	30.00	-2.20
		3540.0	3.10	1 / 48	23.69	26.79	0.478	30.00	-3.21
		3460.0	3.10	1 / 48	20.75	23.85	0.243	30.00	-6.15
	256-QAM	3465.0	3.10	1 / 76	25.53	28.63	0.729	30.00	-1.37
		3500.0	3.10	1 / 39	25.43	28.53	0.713	30.00	-1.47
		3535.0	3.10	1 / 39	25.62	<b>28.72</b>	0.745	30.00	-1.28
30 MHz	π/2 BPSK	3465.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3500.0	3.10	1 / 1	25.64	28.74	0.748	30.00	-1.26
		3535.0	3.10	1 / 1	25.70	<b>28.80</b>	0.759	30.00	-1.20
	QPSK	3465.0	3.10	1 / 1	24.69	27.79	0.601	30.00	-2.21
		3500.0	3.10	1 / 39	23.71	26.81	0.480	30.00	-3.19
		3500.0	3.10	1 / 39	20.81	23.91	0.246	30.00	-6.09
	16-QAM	3470.0	3.10	1 / 1	25.30	28.40	0.692	30.00	-1.60
		3500.0	3.10	1 / 1	25.42	28.52	0.711	30.00	-1.48
		3530.0	3.10	1 / 50	25.68	28.78	0.755	30.00	-1.22
	64-QAM	3470.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3500.0	3.10	1 / 50	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3530.0	3.10	1 / 1	25.68	28.78	0.755	30.00	-1.22
40 MHz	π/2 BPSK	3470.0	3.10	1 / 1	24.68	27.78	0.600	30.00	-2.22
		3500.0	3.10	1 / 1	23.66	26.76	0.474	30.00	-3.24
		3500.0	3.10	1 / 50	20.75	23.85	0.243	30.00	-6.15
	QPSK	3475.0	3.10	1 / 126	25.63	28.73	0.746	30.00	-1.27
		3500.0	3.10	1 / 64	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3525.0	3.10	1 / 1	25.64	28.74	0.748	30.00	-1.26
	16-QAM	3475.0	3.10	1 / 1	25.44	28.54	0.714	30.00	-1.46
		3500.0	3.10	1 / 1	25.63	28.73	0.746	30.00	-1.27
		3525.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
	256-QAM	3525.0	3.10	1 / 126	24.74	27.84	0.608	30.00	-2.16
		3525.0	3.10	1 / 126	23.72	26.82	0.481	30.00	-3.18
		3500.0	3.10	1 / 126	20.82	23.92	0.247	30.00	-6.08
50 MHz	π/2 BPSK	3480.0	3.10	1 / 162	25.63	28.73	0.746	30.00	-1.27
		3500.0	3.10	1 / 64	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3525.0	3.10	1 / 1	25.64	28.74	0.748	30.00	-1.26
	QPSK	3480.0	3.10	1 / 1	25.44	28.54	0.714	30.00	-1.46
		3500.0	3.10	1 / 1	25.63	28.73	0.746	30.00	-1.27
		3525.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
	16-QAM	3525.0	3.10	1 / 126	24.74	27.84	0.608	30.00	-2.16
		3525.0	3.10	1 / 126	23.72	26.82	0.481	30.00	-3.18
		3500.0	3.10	1 / 126	20.82	23.92	0.247	30.00	-6.08
	256-QAM	3485.0	3.10	1 / 187	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3500.0	3.10	1 / 187	25.48	28.58	0.721	30.00	-1.42
		3515.0	3.10	1 / 1	25.66	<b>28.76</b>	0.752	30.00	-1.24
60 MHz	QPSK	3485.0	3.10	1 / 1	25.59	28.69	0.740	30.00	-1.31
		3500.0	3.10	1 / 187	25.65	28.75	0.750	30.00	-1.25
		3520.0	3.10	1 / 81	25.67	28.77	0.753	30.00	-1.23
	16-QAM	3480.0	3.10	1 / 162	24.68	27.78	0.600	30.00	-2.22
		3480.0	3.10	1 / 90	23.74	26.84	0.483	30.00	-3.16
		3500.0	3.10	1 / 90	23.65	26.75	0.473	30.00	-3.25
	256-QAM	3480.0	3.10	1 / 81	20.83	23.93	0.247	30.00	-6.07
		3485.0	3.10	1 / 187	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3500.0	3.10	1 / 187	25.48	28.58	0.721	30.00	-1.42
70 MHz	QPSK	3485.0	3.10	1 / 1	25.59	28.69	0.740	30.00	-1.31
		3500.0	3.10	1 / 187	25.65	28.75	0.750	30.00	-1.25
		3515.0	3.10	1 / 1	25.66	<b>28.76</b>	0.752	30.00	-1.24
	16-QAM	3485.0	3.10	1 / 187	25.65	28.75	0.750	30.00	-1.25
		3500.0	3.10	1 / 187	25.69	28.79	0.757	30.00	-1.21
		3515.0	3.10	1 / 187	23.74	26.84	0.594	30.00	-2.26
	256-QAM	3485.0	3.10	1 / 90	24.64	27.74	0.594	30.00	-2.26
		3500.0	3.10	1 / 90	23.65	26.75	0.473	30.00	-3.25
		3500.0	3.10	1 / 90	20.89	23.79	0.239	30.00	-6.21
80 MHz	π/2 BPSK	3490.0	3.10	1 / 108	25.55	28.65	0.733	30.00	-1.35
		3500.0	3.10	1 / 1	25.69	28.79	0.757	30.00	-1.21
		3510.0	3.10	1 / 214	25.47	28.57	0.719	30.00	-1.43
	QPSK	3490.0	3.10	1 / 1	25.45	28.55	0.716	30.00	-1.45
		3500.0	3.10	1 / 214	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3510.0	3.10	1 / 108	25.26	28.36	0.685	30.00	-1.64
	16-QAM	3490.0	3.10	1 / 214	24.70	27.80	0.603	30.00	-2.20
		3490.0	3.10	1 / 214	23.69	26.79	0.478	30.00	-3.21
		3500.0	3.10	1 / 214	20.80	23.90	0.245	30.00	-6.10
90 MHz	π/2 BPSK	3495.0	3.10	1 / 238	25.54	28.64	0.731	30.00	-1.36
		3500.0	3.10	1 / 1	25.62	28.72	0.745	30.00	-1.28
		3505.0	3.10	1 / 1	25.69	28.79	0.757	30.00	-1.21
	QPSK	3495.0	3.10	1 / 120	25.67	28.77	0.753	30.00	-1.23
		3500.0	3.10	1 / 1	25.53	28.63	0.729	30.00	-1.37
		3505.0	3.10	1 / 1	25.70	<b>28.80</b>	0.759	30.00	-1.20
	16-QAM	3500.0	3.10	1 / 120	24.71	27.81	0.604	30.00	-2.19
		3500.0	3.10	1 / 238	23.70	26.80	0.479	30.00	-3.20
		3505.0	3.10	1 / 120	20.78	23.88	0.244	30.00	-6.12
100 MHz	QPSK	3500.0	3.10	1 / 268	25.69	28.79	0.757	30.00	-1.21
		3500.0	3.10	1 / 268	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3500.0	3.10	1 / 135	25.70	<b>28.80</b>	0.759	30.00	-1.20
	16-QAM	3500.0	3.10	1 / 135	24.71	27.81	0.604	30.00	-2.19
		3500.0	3.10	1 / 1	23.72	26.82	0.481	30.00	-3.18
		3500.0	3.10	1 / 1	20.83	23.93	0.247	30.00	-6.07

Table 7-3. Antenna 3b EIRP Data (NR Band n77 (PC3) – DoD Band)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
20 MHz	π/2 BPSK	3710.0	3.10	1 / 1	25.69	28.79	0.757	30.00	-1.21	
		3840.0	3.10	1 / 1	25.71	28.81	0.760	30.00	-1.19	
		3970.0	3.10	1 / 1	25.78	28.88	0.773	30.00	-1.12	
	QPSK	3710.0	3.10	1 / 25	25.71	28.81	0.760	30.00	-1.19	
		3840.0	3.10	1 / 1	25.90	<b>29.00</b>	0.794	30.00	-1.00	
		3970.0	3.10	1 / 25	25.89	28.99	0.793	30.00	-1.01	
	16-QAM	3710.0	3.10	1 / 48	24.88	27.98	0.628	30.00	-2.02	
		3840.0	3.10	1 / 48	23.81	26.91	0.491	30.00	-3.09	
		3840.0	3.10	1 / 48	20.95	24.05	0.254	30.00	-5.95	
	64-QAM	3715.0	3.10	1 / 39	25.87	28.97	0.789	30.00	-1.03	
		3840.0	3.10	1 / 1	25.87	28.97	0.789	30.00	-1.03	
		3965.0	3.10	1 / 1	25.90	<b>29.00</b>	0.794	30.00	-1.00	
30 MHz	QPSK	3715.0	3.10	1 / 39	25.72	28.82	0.762	30.00	-1.18	
		3840.0	3.10	1 / 39	25.86	28.96	0.787	30.00	-1.04	
		3965.0	3.10	1 / 76	25.56	28.66	0.735	30.00	-1.34	
	16-QAM	3965.0	3.10	1 / 76	24.96	28.06	0.640	30.00	-1.94	
		3965.0	3.10	1 / 39	23.87	26.97	0.498	30.00	-3.03	
		256-QAM	3715.0	3.10	1 / 1	20.95	24.05	0.254	30.00	-5.95
	π/2 BPSK	3720.0	3.10	1 / 98	25.85	28.95	0.785	30.00	-1.05	
		3840.0	3.10	1 / 50	25.70	28.80	0.759	30.00	-1.20	
		3960.0	3.10	1 / 50	25.80	28.90	0.776	30.00	-1.10	
	QPSK	3720.0	3.10	1 / 50	25.90	<b>29.00</b>	0.794	30.00	-1.00	
		3840.0	3.10	1 / 98	25.66	28.76	0.752	30.00	-1.24	
		3960.0	3.10	1 / 1	25.84	28.94	0.783	30.00	-1.06	
40 MHz	16-QAM	3840.0	3.10	1 / 50	24.84	27.94	0.622	30.00	-2.06	
		3960.0	3.10	1 / 50	23.91	27.01	0.502	30.00	-2.99	
		256-QAM	3960.0	3.10	1 / 1	21.03	24.13	0.259	30.00	-5.87
	π/2 BPSK	3725.0	3.10	1 / 1	25.90	<b>29.00</b>	0.794	30.00	-1.00	
		3840.0	3.10	1 / 126	25.70	28.80	0.759	30.00	-1.20	
		3955.0	3.10	1 / 1	25.79	28.89	0.774	30.00	-1.11	
	QPSK	3725.0	3.10	1 / 126	25.89	28.99	0.793	30.00	-1.01	
		3840.0	3.10	1 / 1	25.80	28.90	0.776	30.00	-1.10	
		3955.0	3.10	1 / 64	25.88	28.98	0.791	30.00	-1.02	
	16-QAM	3840.0	3.10	1 / 126	24.89	27.99	0.630	30.00	-2.01	
		3840.0	3.10	1 / 1	23.93	27.03	0.505	30.00	-2.97	
		256-QAM	3725.0	3.10	1 / 64	21.02	24.12	0.258	30.00	-5.88
50 MHz	π/2 BPSK	3730.0	3.10	1 / 1	25.86	28.96	0.787	30.00	-1.04	
		3840.0	3.10	1 / 162	25.89	28.99	0.793	30.00	-1.01	
		3950.0	3.10	1 / 162	25.85	28.95	0.785	30.00	-1.05	
	QPSK	3730.0	3.10	1 / 1	25.85	28.95	0.785	30.00	-1.05	
		3840.0	3.10	1 / 162	25.76	28.86	0.769	30.00	-1.14	
		3950.0	3.10	1 / 1	25.90	<b>29.00</b>	0.794	30.00	-1.00	
	16-QAM	3730.0	3.10	1 / 1	24.89	27.99	0.630	30.00	-2.01	
		64-QAM	3840.0	3.10	1 / 162	23.81	26.91	0.491	30.00	-3.09
		256-QAM	3840.0	3.10	1 / 1	20.89	23.99	0.251	30.00	-6.01
	π/2 BPSK	3735.0	3.10	1 / 90	25.74	28.84	0.766	30.00	-1.16	
		3840.0	3.10	1 / 187	25.54	28.64	0.731	30.00	-1.36	
		3945.0	3.10	1 / 90	25.90	<b>29.00</b>	0.794	30.00	-1.00	
60 MHz	QPSK	3735.0	3.10	1 / 90	25.86	28.96	0.787	30.00	-1.04	
		3840.0	3.10	1 / 187	25.76	28.86	0.769	30.00	-1.14	
		3950.0	3.10	1 / 187	25.90	<b>29.00</b>	0.794	30.00	-1.00	
	16-QAM	3730.0	3.10	1 / 1	24.89	27.99	0.630	30.00	-2.01	
		64-QAM	3840.0	3.10	1 / 187	23.81	26.91	0.491	30.00	-3.09
		256-QAM	3840.0	3.10	1 / 1	20.89	23.99	0.251	30.00	-6.01
	π/2 BPSK	3740.0	3.10	1 / 1	25.78	28.88	0.773	30.00	-1.12	
		3840.0	3.10	1 / 214	25.88	28.98	0.791	30.00	-1.02	
		3940.0	3.10	1 / 1	25.53	28.63	0.729	30.00	-1.37	
	QPSK	3740.0	3.10	1 / 214	25.70	28.80	0.759	30.00	-1.20	
		3840.0	3.10	1 / 1	25.76	28.86	0.769	30.00	-1.14	
		3945.0	3.10	1 / 90	25.90	<b>29.00</b>	0.794	30.00	-1.00	
70 MHz	16-QAM	3740.0	3.10	1 / 1	24.82	27.92	0.619	30.00	-2.08	
		64-QAM	3840.0	3.10	1 / 187	23.68	26.78	0.476	30.00	-3.22
		256-QAM	3945.0	3.10	1 / 187	20.89	23.99	0.251	30.00	-6.01
	π/2 BPSK	3745.0	3.10	1 / 1	25.78	28.88	0.773	30.00	-1.12	
		3840.0	3.10	1 / 214	25.88	28.98	0.791	30.00	-1.02	
		3940.0	3.10	1 / 1	25.53	28.63	0.729	30.00	-1.37	
	QPSK	3745.0	3.10	1 / 214	25.70	28.80	0.759	30.00	-1.20	
		3840.0	3.10	1 / 108	25.87	28.97	0.789	30.00	-1.03	
		3940.0	3.10	1 / 108	25.90	<b>29.00</b>	0.794	30.00	-1.00	
	16-QAM	3740.0	3.10	1 / 108	24.86	27.96	0.625	30.00	-2.04	
		64-QAM	3840.0	3.10	1 / 108	23.83	26.93	0.493	30.00	-3.07
		256-QAM	3840.0	3.10	1 / 214	20.93	24.03	0.253	30.00	-5.97
90 MHz	π/2 BPSK	3745.0	3.10	1 / 1	25.73	28.83	0.764	30.00	-1.17	
		3840.0	3.10	1 / 1	25.88	28.98	0.791	30.00	-1.02	
		3935.0	3.10	1 / 120	25.90	<b>29.00</b>	0.794	30.00	-1.00	
	QPSK	3745.0	3.10	1 / 1	25.68	28.78	0.755	30.00	-1.22	
		3840.0	3.10	1 / 120	25.66	28.76	0.752	30.00	-1.24	
		3935.0	3.10	1 / 120	25.75	28.85	0.767	30.00	-1.15	
	16-QAM	3745.0	3.10	1 / 238	24.92	28.02	0.634	30.00	-1.98	
		64-QAM	3935.0	3.10	1 / 1	23.95	27.05	0.507	30.00	-2.95
		256-QAM	3745.0	3.10	1 / 1	21.02	24.12	0.258	30.00	-5.88
100 MHz	π/2 BPSK	3750.0	3.10	1 / 1	25.84	28.94	0.783	30.00	-1.06	
		3840.0	3.10	1 / 135	25.79	28.89	0.774	30.00	-1.11	
		3930.0	3.10	1 / 1	25.79	28.89	0.774	30.00	-1.11	
	QPSK	3750.0	3.10	1 / 1	25.90	<b>29.00</b>	0.794	30.00	-1.00	
		3840.0	3.10	1 / 268	25.87	28.97	0.789	30.00	-1.03	
		3930.0	3.10	1 / 268	25.69	28.79	0.757	30.00	-1.21	
	16-QAM	3930.0	3.10	1 / 268	24.83	27.93	0.621	30.00	-2.07	
		64-QAM	3930.0	3.10	1 / 268	23.89	26.99	0.500	30.00	-3.01
		256-QAM	3840.0	3.10	1 / 268	20.97	24.07	0.255	30.00	-5.93

Table 7-4. Antenna 3b EIRP Data (NR Band n77 (PC2) – C Band)

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						Page 144 of 174
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EiRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3840.0	3.10	1 / 1	25.51	28.61	0.726	30.00	-1.39
		3970.0	3.10	1 / 25	25.68	28.78	0.755	30.00	-1.22
	QPSK	3710.0	3.10	1 / 25	25.65	28.75	0.750	30.00	-1.25
		3840.0	3.10	1 / 1	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3970.0	3.10	1 / 25	25.66	28.76	0.752	30.00	-1.24
	16-QAM	3710.0	3.10	1 / 1	24.81	27.91	0.618	30.00	-2.09
		3840.0	3.10	1 / 48	23.80	26.90	0.490	30.00	-3.10
		3965.0	3.10	1 / 25	20.82	23.92	0.247	30.00	-6.08
	30 MHz	3715.0	3.10	1 / 1	25.58	28.68	0.738	30.00	-1.32
		3840.0	3.10	1 / 76	25.52	28.62	0.728	30.00	-1.38
		3965.0	3.10	1 / 39	25.67	<b>28.77</b>	0.753	30.00	-1.23
		3715.0	3.10	1 / 1	25.59	28.69	0.740	30.00	-1.31
		3840.0	3.10	1 / 39	25.66	28.76	0.752	30.00	-1.24
		3965.0	3.10	1 / 39	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3965.0	3.10	1 / 76	24.68	27.78	0.600	30.00	-2.22
		3840.0	3.10	1 / 1	23.65	26.75	0.473	30.00	-3.25
		3965.0	3.10	1 / 76	20.71	23.81	0.240	30.00	-6.19
		3720.0	3.10	1 / 98	25.61	28.71	0.743	30.00	-1.29
40 MHz	π/2 BPSK	3840.0	3.10	1 / 50	25.65	28.75	0.750	30.00	-1.25
		3960.0	3.10	1 / 50	25.46	28.56	0.718	30.00	-1.44
		3720.0	3.10	1 / 98	25.65	28.75	0.750	30.00	-1.25
		3840.0	3.10	1 / 98	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3960.0	3.10	1 / 1	25.56	28.66	0.735	30.00	-1.34
	QPSK	3720.0	3.10	1 / 50	24.56	27.66	0.583	30.00	-2.34
		3840.0	3.10	1 / 50	23.67	26.77	0.475	30.00	-3.23
		3960.0	3.10	1 / 1	20.80	23.90	0.245	30.00	-6.10
	50 MHz	3725.0	3.10	1 / 126	25.55	28.65	0.733	30.00	-1.35
		3840.0	3.10	1 / 1	25.69	28.79	0.757	30.00	-1.21
		3955.0	3.10	1 / 126	25.55	28.65	0.733	30.00	-1.35
		3725.0	3.10	1 / 1	25.44	28.54	0.714	30.00	-1.46
		3840.0	3.10	1 / 64	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3955.0	3.10	1 / 126	25.63	28.73	0.746	30.00	-1.27
		3840.0	3.10	1 / 126	24.69	27.79	0.601	30.00	-2.21
		3840.0	3.10	1 / 64	23.75	26.85	0.484	30.00	-3.15
		3840.0	3.10	1 / 126	20.86	23.96	0.249	30.00	-6.04
		3730.0	3.10	1 / 162	25.48	28.58	0.721	30.00	-1.42
60 MHz	π/2 BPSK	3840.0	3.10	1 / 162	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3950.0	3.10	1 / 81	25.68	28.78	0.755	30.00	-1.22
		3730.0	3.10	1 / 81	25.30	28.40	0.692	30.00	-1.60
		3840.0	3.10	1 / 162	25.53	28.63	0.729	30.00	-1.37
	QPSK	3950.0	3.10	1 / 162	25.60	28.70	0.741	30.00	-1.30
		3950.0	3.10	1 / 81	24.67	27.77	0.598	30.00	-2.23
		3950.0	3.10	1 / 81	23.71	26.81	0.480	30.00	-3.19
	70 MHz	3840.0	3.10	1 / 1	20.77	23.87	0.244	30.00	-6.13
		3735.0	3.10	1 / 1	25.61	28.71	0.743	30.00	-1.29
		3840.0	3.10	1 / 187	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3945.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3735.0	3.10	1 / 1	25.46	28.56	0.718	30.00	-1.44
		3840.0	3.10	1 / 1	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3945.0	3.10	1 / 1	25.49	28.59	0.723	30.00	-1.41
		3840.0	3.10	1 / 90	24.71	27.81	0.604	30.00	-2.19
		3840.0	3.10	1 / 90	23.58	26.68	0.466	30.00	-3.32
		3945.0	3.10	1 / 1	20.83	23.93	0.247	30.00	-6.07
80 MHz	π/2 BPSK	3740.0	3.10	1 / 214	25.40	28.50	0.708	30.00	-1.50
		3840.0	3.10	1 / 1	25.49	28.59	0.723	30.00	-1.41
		3940.0	3.10	1 / 1	25.69	28.79	0.757	30.00	-1.21
	QPSK	3740.0	3.10	1 / 108	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3840.0	3.10	1 / 214	25.56	28.66	0.735	30.00	-1.34
		3940.0	3.10	1 / 108	25.40	28.50	0.708	30.00	-1.50
	16-QAM	3840.0	3.10	1 / 214	24.72	27.82	0.605	30.00	-2.18
		3940.0	3.10	1 / 108	23.77	26.87	0.486	30.00	-3.13
		3940.0	3.10	1 / 108	20.87	23.97	0.249	30.00	-6.03
90 MHz	π/2 BPSK	3745.0	3.10	1 / 1	25.68	28.78	0.755	30.00	-1.22
		3840.0	3.10	1 / 238	25.69	28.79	0.757	30.00	-1.21
		3935.0	3.10	1 / 238	25.57	28.67	0.736	30.00	-1.33
	QPSK	3745.0	3.10	1 / 238	25.56	28.66	0.735	30.00	-1.34
		3840.0	3.10	1 / 1	25.70	<b>28.80</b>	0.759	30.00	-1.20
		3935.0	3.10	1 / 238	25.70	<b>28.80</b>	0.759	30.00	-1.20
	16-QAM	3935.0	3.10	1 / 238	24.71	27.81	0.604	30.00	-2.19
		3935.0	3.10	1 / 120	23.72	26.82	0.481	30.00	-3.18
		3935.0	3.10	1 / 120	20.81	23.91	0.246	30.00	-6.09
100 MHz	π/2 BPSK	3750.0	3.10	1 / 268	25.50	28.60	0.724	30.00	-1.40
		3840.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3930.0	3.10	1 / 268	25.64	28.74	0.748	30.00	-1.26
	QPSK	3750.0	3.10	1 / 1	25.66	28.76	0.752	30.00	-1.24
		3840.0	3.10	1 / 268	25.69	28.79	0.757	30.00	-1.21
		3930.0	3.10	1 / 268	25.70	<b>28.80</b>	0.759	30.00	-1.20
	16-QAM	3750.0	3.10	1 / 268	24.68	27.78	0.600	30.00	-2.22
		3840.0	3.10	1 / 1	23.67	26.77	0.475	30.00	-3.23
		3750.0	3.10	1 / 268	20.82	23.92	0.247	30.00	-6.08

Table 7-5. Antenna 3b EIRP Data (NR Band n77 (PC3) – C Band)

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						
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## 7.6.2 Antenna 1b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	-1.50	1 / 48	22.67	21.17	0.131	30.00	-8.83
		3500.0	-1.50	1 / 1	22.32	20.82	0.121	30.00	-9.18
		3540.0	-1.50	1 / 1	22.36	20.86	0.122	30.00	-9.14
	QPSK	3460.0	-1.50	1 / 1	22.63	21.13	0.130	30.00	-8.87
		3500.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3540.0	-1.50	1 / 48	22.70	21.20	0.132	30.00	-8.80
	16-QAM	3500.0	-1.50	1 / 25	21.65	20.15	0.104	30.00	-9.85
	64-QAM	3460.0	-1.50	1 / 48	20.68	19.18	0.083	30.00	-10.82
	256-QAM	3540.0	-1.50	1 / 1	17.79	16.29	0.043	30.00	-13.71
	π/2 BPSK	3465.0	-1.50	1 / 76	22.53	21.03	0.127	30.00	-8.97
		3500.0	-1.50	1 / 76	22.66	21.16	0.131	30.00	-8.84
		3535.0	-1.50	1 / 76	22.40	20.90	0.123	30.00	-9.10
30 MHz	QPSK	3465.0	-1.50	1 / 76	22.70	21.20	0.132	30.00	-8.80
		3500.0	-1.50	1 / 76	22.48	20.98	0.125	30.00	-9.02
		3535.0	-1.50	1 / 76	22.61	21.11	0.129	30.00	-8.89
	16-QAM	3500.0	-1.50	1 / 76	21.69	20.19	0.104	30.00	-9.81
	64-QAM	3535.0	-1.50	1 / 1	20.68	19.18	0.083	30.00	-10.82
	256-QAM	3500.0	-1.50	1 / 39	17.74	16.24	0.042	30.00	-13.76
	π/2 BPSK	3470.0	-1.50	1 / 98	22.66	21.16	0.131	30.00	-8.84
		3500.0	-1.50	1 / 98	22.39	20.89	0.123	30.00	-9.11
		3530.0	-1.50	1 / 50	22.70	21.20	0.132	30.00	-8.80
40 MHz	QPSK	3470.0	-1.50	1 / 1	22.70	21.20	0.132	30.00	-8.80
		3500.0	-1.50	1 / 98	22.70	21.20	0.132	30.00	-8.80
		3530.0	-1.50	1 / 98	22.61	21.11	0.129	30.00	-8.89
	16-QAM	3530.0	-1.50	1 / 50	21.82	20.32	0.108	30.00	-9.68
	64-QAM	3470.0	-1.50	1 / 50	20.81	19.31	0.085	30.00	-10.69
	256-QAM	3530.0	-1.50	1 / 50	17.90	16.40	0.044	30.00	-13.60
	π/2 BPSK	3475.0	-1.50	1 / 126	22.65	21.15	0.130	30.00	-8.85
		3500.0	-1.50	1 / 1	22.70	21.20	0.132	30.00	-8.80
		3525.0	-1.50	1 / 126	22.63	21.13	0.130	30.00	-8.87
50 MHz	QPSK	3475.0	-1.50	1 / 126	22.69	21.19	0.132	30.00	-8.81
		3500.0	-1.50	1 / 64	22.61	21.11	0.129	30.00	-8.89
		3525.0	-1.50	1 / 64	22.56	21.06	0.128	30.00	-8.94
	16-QAM	3500.0	-1.50	1 / 64	21.66	20.16	0.104	30.00	-9.84
	64-QAM	3475.0	-1.50	1 / 126	20.69	19.19	0.083	30.00	-10.81
	256-QAM	3500.0	-1.50	1 / 126	17.78	16.28	0.042	30.00	-13.72
	π/2 BPSK	3480.0	-1.50	1 / 162	22.68	21.18	0.131	30.00	-8.82
		3500.0	-1.50	1 / 162	22.62	21.12	0.129	30.00	-8.88
		3520.0	-1.50	1 / 162	22.59	21.09	0.129	30.00	-8.91
60 MHz	QPSK	3480.0	-1.50	1 / 81	22.68	21.18	0.131	30.00	-8.82
		3500.0	-1.50	1 / 81	22.70	21.20	0.132	30.00	-8.80
		3520.0	-1.50	1 / 81	22.66	21.16	0.131	30.00	-8.84
	16-QAM	3480.0	-1.50	1 / 162	21.82	20.32	0.108	30.00	-9.68
	64-QAM	3500.0	-1.50	1 / 162	20.82	19.32	0.086	30.00	-10.68
	256-QAM	3500.0	-1.50	1 / 1	17.90	16.40	0.044	30.00	-13.60
	π/2 BPSK	3485.0	-1.50	1 / 1	22.69	21.19	0.132	30.00	-8.81
		3500.0	-1.50	1 / 90	22.64	21.14	0.130	30.00	-8.86
		3515.0	-1.50	1 / 90	22.70	21.20	0.132	30.00	-8.80
70 MHz	QPSK	3485.0	-1.50	1 / 1	22.62	21.12	0.129	30.00	-8.88
		3500.0	-1.50	1 / 1	22.59	21.09	0.129	30.00	-8.91
		3515.0	-1.50	1 / 90	22.65	21.15	0.130	30.00	-8.85
	16-QAM	3485.0	-1.50	1 / 90	21.65	20.15	0.104	30.00	-9.85
	64-QAM	3485.0	-1.50	1 / 90	20.70	19.20	0.083	30.00	-10.80
	256-QAM	3485.0	-1.50	1 / 90	17.77	16.27	0.042	30.00	-13.73
	π/2 BPSK	3490.0	-1.50	1 / 108	22.50	21.00	0.126	30.00	-9.00
		3500.0	-1.50	1 / 108	22.48	20.98	0.125	30.00	-9.02
		3510.0	-1.50	1 / 214	22.41	20.91	0.123	30.00	-9.09
80 MHz	QPSK	3490.0	-1.50	1 / 1	22.58	21.08	0.128	30.00	-8.92
		3500.0	-1.50	1 / 214	22.54	21.04	0.127	30.00	-8.96
		3510.0	-1.50	1 / 214	22.70	21.20	0.132	30.00	-8.80
	16-QAM	3500.0	-1.50	1 / 1	21.60	20.10	0.102	30.00	-9.90
	64-QAM	3500.0	-1.50	1 / 1	20.69	19.19	0.083	30.00	-10.81
	256-QAM	3510.0	-1.50	1 / 1	17.76	16.26	0.042	30.00	-13.74
	π/2 BPSK	3495.0	-1.50	1 / 238	22.70	21.20	0.132	30.00	-8.80
		3500.0	-1.50	1 / 238	22.69	21.19	0.132	30.00	-8.81
		3505.0	-1.50	1 / 120	22.70	21.20	0.132	30.00	-8.80
90 MHz	QPSK	3495.0	-1.50	1 / 1	22.60	21.10	0.129	30.00	-8.90
		3500.0	-1.50	1 / 120	22.57	21.07	0.128	30.00	-8.93
		3505.0	-1.50	1 / 1	22.52	21.02	0.126	30.00	-8.98
	16-QAM	3500.0	-1.50	1 / 1	21.69	20.19	0.104	30.00	-9.81
	64-QAM	3505.0	-1.50	1 / 1	20.69	19.19	0.083	30.00	-10.81
	256-QAM	3495.0	-1.50	1 / 238	17.73	16.23	0.042	30.00	-13.77
	π/2 BPSK	3500.0	-1.50	1 / 135	22.70	21.20	0.132	30.00	-8.80
		3500.0	-1.50	1 / 268	22.70	21.20	0.132	30.00	-8.80
		3510.0	-1.50	1 / 135	20.70	19.20	0.083	30.00	-10.80
100 MHz	QPSK	3500.0	-1.50	1 / 1	17.76	16.26	0.042	30.00	-13.74
		3500.0	-1.50	1 / 1	17.76	16.26	0.042	30.00	-13.74

Table 7-6. Antenna 1b EIRP Data (NR Band n77 (PC2) – DoD Band)

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device				Page 146 of 174	
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3500.0	-1.50	1 / 48	22.64	21.14	0.130	30.00	-8.86
		3540.0	-1.50	1 / 48	22.49	20.99	0.126	30.00	-9.01
	QPSK	3460.0	-1.50	1 / 25	22.46	20.96	0.125	30.00	-9.04
		3500.0	-1.50	1 / 48	22.44	20.94	0.124	30.00	-9.06
		3540.0	-1.50	1 / 48	22.70	21.20	0.132	30.00	-8.80
	16-QAM	3460.0	-1.50	1 / 25	21.67	20.17	0.104	30.00	-9.83
	64-QAM	3460.0	-1.50	1 / 25	20.68	19.18	0.083	30.00	-10.62
	256-QAM	3500.0	-1.50	1 / 48	17.73	16.23	0.042	30.00	-13.77
	π/2 BPSK	3465.0	-1.50	1 / 76	22.63	21.13	0.130	30.00	-8.87
		3500.0	-1.50	1 / 76	22.70	21.20	0.132	30.00	-8.80
		3535.0	-1.50	1 / 39	22.45	20.95	0.124	30.00	-9.05
30 MHz	QPSK	3465.0	-1.50	1 / 1	22.54	21.04	0.127	30.00	-8.96
		3500.0	-1.50	1 / 76	22.43	20.93	0.124	30.00	-9.07
		3535.0	-1.50	1 / 1	22.43	20.93	0.124	30.00	-9.07
	16-QAM	3465.0	-1.50	1 / 1	21.67	20.17	0.104	30.00	-9.83
	64-QAM	3535.0	-1.50	1 / 76	20.60	19.10	0.081	30.00	-10.90
	256-QAM	3500.0	-1.50	1 / 76	17.75	16.25	0.042	30.00	-13.75
	π/2 BPSK	3470.0	-1.50	1 / 50	22.55	21.05	0.127	30.00	-8.95
		3500.0	-1.50	1 / 1	22.70	21.20	0.132	30.00	-8.80
		3530.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
	QPSK	3470.0	-1.50	1 / 1	22.63	21.13	0.130	30.00	-8.87
		3500.0	-1.50	1 / 1	22.58	21.08	0.128	30.00	-8.92
		3530.0	-1.50	1 / 98	22.59	21.09	0.129	30.00	-8.91
40 MHz	16-QAM	3500.0	-1.50	1 / 1	21.61	20.11	0.103	30.00	-9.89
	64-QAM	3500.0	-1.50	1 / 1	20.54	19.04	0.080	30.00	-10.96
	256-QAM	3500.0	-1.50	1 / 98	17.69	16.19	0.042	30.00	-13.81
	π/2 BPSK	3475.0	-1.50	1 / 126	22.53	21.03	0.127	30.00	-8.97
		3500.0	-1.50	1 / 126	22.70	21.20	0.132	30.00	-8.80
		3525.0	-1.50	1 / 64	22.69	21.19	0.132	30.00	-8.81
	QPSK	3475.0	-1.50	1 / 1	22.50	21.00	0.126	30.00	-9.00
		3500.0	-1.50	1 / 64	22.68	21.18	0.131	30.00	-8.82
		3525.0	-1.50	1 / 64	22.70	21.20	0.132	30.00	-8.80
	16-QAM	3475.0	-1.50	1 / 64	21.69	20.19	0.104	30.00	-9.81
	64-QAM	3500.0	-1.50	1 / 1	20.69	19.19	0.083	30.00	-10.81
	256-QAM	3500.0	-1.50	1 / 64	17.78	16.28	0.042	30.00	-13.72
50 MHz	π/2 BPSK	3480.0	-1.50	1 / 81	22.67	21.17	0.131	30.00	-8.83
		3500.0	-1.50	1 / 162	22.70	21.20	0.132	30.00	-8.80
		3520.0	-1.50	1 / 162	22.64	21.14	0.130	30.00	-8.86
	QPSK	3480.0	-1.50	1 / 162	22.65	21.15	0.130	30.00	-8.85
		3500.0	-1.50	1 / 1	22.26	20.76	0.119	30.00	-9.24
		3520.0	-1.50	1 / 81	22.66	21.16	0.131	30.00	-8.84
	16-QAM	3520.0	-1.50	1 / 81	21.68	20.18	0.104	30.00	-9.82
	64-QAM	3480.0	-1.50	1 / 162	20.69	19.19	0.083	30.00	-10.81
	256-QAM	3520.0	-1.50	1 / 162	17.77	16.27	0.042	30.00	-13.73
	π/2 BPSK	3485.0	-1.50	1 / 187	22.63	21.13	0.130	30.00	-8.87
		3500.0	-1.50	1 / 90	22.70	21.20	0.132	30.00	-8.80
		3515.0	-1.50	1 / 90	22.58	21.08	0.128	30.00	-8.92
60 MHz	QPSK	3485.0	-1.50	1 / 90	22.61	21.11	0.129	30.00	-8.89
		3500.0	-1.50	1 / 187	22.38	20.88	0.122	30.00	-9.12
		3515.0	-1.50	1 / 1	22.62	21.12	0.129	30.00	-8.88
	16-QAM	3485.0	-1.50	1 / 1	21.64	20.14	0.103	30.00	-9.86
	64-QAM	3515.0	-1.50	1 / 1	20.66	19.16	0.082	30.00	-10.84
	256-QAM	3515.0	-1.50	1 / 90	17.76	16.26	0.042	30.00	-13.74
	π/2 BPSK	3490.0	-1.50	1 / 1	22.58	21.08	0.128	30.00	-8.92
		3500.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3510.0	-1.50	1 / 108	22.68	21.18	0.131	30.00	-8.82
70 MHz	QPSK	3490.0	-1.50	1 / 1	22.70	21.20	0.132	30.00	-8.84
		3500.0	-1.50	1 / 1	22.66	21.16	0.131	30.00	-8.84
		3510.0	-1.50	1 / 1	22.64	21.14	0.130	30.00	-8.86
	16-QAM	3510.0	-1.50	1 / 1	21.65	20.15	0.104	30.00	-9.85
	64-QAM	3490.0	-1.50	1 / 108	20.72	19.22	0.084	30.00	-10.78
	256-QAM	3500.0	-1.50	1 / 214	17.75	16.25	0.042	30.00	-13.75
	π/2 BPSK	3495.0	-1.50	1 / 120	22.66	21.16	0.131	30.00	-8.84
		3500.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3505.0	-1.50	1 / 1	22.55	21.05	0.127	30.00	-8.95
90 MHz	QPSK	3495.0	-1.50	1 / 1	22.47	20.97	0.125	30.00	-9.03
		3500.0	-1.50	1 / 1	22.60	21.10	0.129	30.00	-8.90
		3505.0	-1.50	1 / 120	22.70	21.20	0.132	30.00	-8.80
	16-QAM	3500.0	-1.50	1 / 238	21.72	20.22	0.105	30.00	-9.78
	64-QAM	3505.0	-1.50	1 / 1	20.70	19.20	0.083	30.00	-10.80
	256-QAM	3505.0	-1.50	1 / 1	17.76	16.26	0.042	30.00	-13.74
	π/2 BPSK	3500.0	-1.50	1 / 268	22.70	21.20	0.132	30.00	-8.80
		3505.0	-1.50	1 / 135	22.70	21.20	0.132	30.00	-8.80
		3510.0	-1.50	1 / 135	21.58	20.08	0.102	30.00	-9.92
100 MHz	16-QAM	3500.0	-1.50	1 / 135	20.69	19.19	0.083	30.00	-10.81
	64-QAM	3500.0	-1.50	1 / 1	17.79	16.29	0.043	30.00	-13.71

**Table 7-7. Antenna 1b EIRP Data (NR Band n77 - DoD Band)**

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device				Page 147 of 174	

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	-1.50	1 / 1	22.47	20.97	0.125	30.00	-9.03
		3840.0	-1.50	1 / 25	22.43	20.93	0.124	30.00	-9.07
		3970.0	-1.50	1 / 1	22.33	20.83	0.121	30.00	-9.17
	QPSK	3710.0	-1.50	1 / 25	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 1	22.65	21.15	0.130	30.00	-8.85
		3970.0	-1.50	1 / 48	22.58	21.08	0.128	30.00	-8.92
	16-QAM	3840.0	-1.50	1 / 25	21.68	20.18	0.104	30.00	-9.82
		3710.0	-1.50	1 / 1	20.64	19.14	0.082	30.00	-10.86
		256-QAM	-1.50	1 / 48	17.80	16.30	0.043	30.00	-13.70
	30 MHz	3715.0	-1.50	1 / 1	22.63	21.13	0.130	30.00	-8.87
		3840.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3965.0	-1.50	1 / 76	22.66	21.16	0.131	30.00	-8.84
40 MHz	QPSK	3715.0	-1.50	1 / 1	22.57	21.07	0.128	30.00	-8.93
		3840.0	-1.50	1 / 39	22.65	21.15	0.130	30.00	-8.85
		3965.0	-1.50	1 / 39	22.53	21.03	0.127	30.00	-8.97
	16-QAM	3840.0	-1.50	1 / 1	21.78	20.28	0.107	30.00	-9.72
		3965.0	-1.50	1 / 76	20.73	19.23	0.084	30.00	-10.77
		256-QAM	-1.50	1 / 1	17.92	16.42	0.044	30.00	-13.58
	π/2 BPSK	3720.0	-1.50	1 / 50	22.69	21.19	0.132	30.00	-8.81
		3840.0	-1.50	1 / 50	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3960.0	-1.50	1 / 1	22.65	21.15	0.130	30.00	-8.85
50 MHz	QPSK	3720.0	-1.50	1 / 1	22.55	21.05	0.127	30.00	-8.95
		3840.0	-1.50	1 / 1	22.63	21.13	0.130	30.00	-8.87
		3960.0	-1.50	1 / 50	22.45	20.95	0.124	30.00	-9.05
	16-QAM	3840.0	-1.50	1 / 98	21.70	20.20	0.105	30.00	-9.80
		3960.0	-1.50	1 / 98	20.69	19.19	0.083	30.00	-10.81
		256-QAM	-1.50	1 / 50	17.83	16.33	0.043	30.00	-13.67
	π/2 BPSK	3725.0	-1.50	1 / 126	22.57	21.07	0.128	30.00	-8.93
		3840.0	-1.50	1 / 126	22.63	21.13	0.130	30.00	-8.87
		3955.0	-1.50	1 / 64	22.52	21.02	0.126	30.00	-8.98
60 MHz	QPSK	3725.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 126	22.67	21.17	0.131	30.00	-8.83
		3955.0	-1.50	1 / 64	22.44	20.94	0.124	30.00	-9.06
	16-QAM	3725.0	-1.50	1 / 126	21.67	20.17	0.104	30.00	-9.83
		3955.0	-1.50	1 / 1	20.70	19.20	0.083	30.00	-10.80
		256-QAM	-1.50	1 / 1	17.78	16.28	0.042	30.00	-13.72
	π/2 BPSK	3730.0	-1.50	1 / 162	22.53	21.03	0.127	30.00	-8.97
		3840.0	-1.50	1 / 81	22.58	21.08	0.128	30.00	-8.92
		3950.0	-1.50	1 / 1	22.59	21.09	0.129	30.00	-8.91
70 MHz	QPSK	3730.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 81	22.62	21.12	0.129	30.00	-8.88
		3950.0	-1.50	1 / 162	22.63	21.13	0.130	30.00	-8.87
	16-QAM	3950.0	-1.50	1 / 1	21.74	20.24	0.106	30.00	-9.76
		3730.0	-1.50	1 / 162	20.67	19.17	0.083	30.00	-10.83
		256-QAM	-1.50	1 / 1	17.83	16.33	0.043	30.00	-13.67
	π/2 BPSK	3735.0	-1.50	1 / 187	22.51	21.01	0.126	30.00	-8.99
		3840.0	-1.50	1 / 1	22.69	21.19	0.132	30.00	-8.81
		3945.0	-1.50	1 / 187	22.70	<b>21.20</b>	0.132	30.00	-8.80
80 MHz	QPSK	3735.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3840.0	-1.50	1 / 90	22.69	21.19	0.132	30.00	-8.81
		3945.0	-1.50	1 / 90	22.54	21.04	0.127	30.00	-8.96
	16-QAM	3945.0	-1.50	1 / 90	21.75	20.25	0.106	30.00	-9.75
		3740.0	-1.50	1 / 214	20.73	19.23	0.084	30.00	-10.77
		256-QAM	-1.50	1 / 187	17.80	16.30	0.043	30.00	-13.70
	π/2 BPSK	3740.0	-1.50	1 / 1	22.68	21.18	0.131	30.00	-8.82
		3840.0	-1.50	1 / 1	22.68	21.18	0.131	30.00	-8.82
		3940.0	-1.50	1 / 108	22.41	20.91	0.123	30.00	-9.09
90 MHz	QPSK	3740.0	-1.50	1 / 1	22.66	21.16	0.131	30.00	-8.84
		3840.0	-1.50	1 / 214	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3940.0	-1.50	1 / 214	22.60	21.10	0.129	30.00	-8.90
	16-QAM	3740.0	-1.50	1 / 108	21.67	20.17	0.104	30.00	-9.83
		3940.0	-1.50	1 / 214	20.66	19.16	0.082	30.00	-10.84
		256-QAM	-1.50	1 / 108	17.78	16.28	0.042	30.00	-13.72
	π/2 BPSK	3745.0	-1.50	1 / 1	22.57	21.07	0.128	30.00	-8.93
		3840.0	-1.50	1 / 120	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3935.0	-1.50	1 / 1	22.59	21.09	0.129	30.00	-8.91
100 MHz	QPSK	3745.0	-1.50	1 / 120	22.51	21.01	0.126	30.00	-8.99
		3840.0	-1.50	1 / 238	22.50	21.00	0.126	30.00	-9.00
		3935.0	-1.50	1 / 1	22.59	21.09	0.129	30.00	-8.91
	16-QAM	3935.0	-1.50	1 / 120	21.72	20.22	0.105	30.00	-9.78
		3935.0	-1.50	1 / 238	20.61	19.11	0.081	30.00	-10.89
		256-QAM	-1.50	1 / 238	17.71	16.21	0.042	30.00	-13.79
	π/2 BPSK	3750.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3840.0	-1.50	1 / 1	22.67	21.17	0.131	30.00	-8.83
		3930.0	-1.50	1 / 268	22.44	20.94	0.124	30.00	-9.06
100 MHz	QPSK	3750.0	-1.50	1 / 135	22.51	21.01	0.126	30.00	-8.80
		3840.0	-1.50	1 / 135	22.69	21.19	0.132	30.00	-8.81
		3930.0	-1.50	1 / 135	21.73	20.23	0.105	30.00	-9.77
	16-QAM	3840.0	-1.50	1 / 268	20.63	19.13	0.082	30.00	-10.87
		3930.0	-1.50	1 / 1	17.78	16.28	0.042	30.00	-13.72

Table 7-8. Antenna 1b EIRP Data (NR Band n77 (PC2) – C Band)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBil]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	-1.50	1 / 1	22.68	21.18	0.131	30.00	-8.82
		3840.0	-1.50	1 / 1	22.68	21.18	0.131	30.00	-8.82
		3970.0	-1.50	1 / 48	22.51	21.01	0.126	30.00	-8.99
	QPSK	3710.0	-1.50	1 / 25	22.45	20.95	0.124	30.00	-9.05
		3840.0	-1.50	1 / 25	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3970.0	-1.50	1 / 48	22.31	20.81	0.121	30.00	-9.19
	16-QAM	3710.0	-1.50	1 / 1	21.65	20.15	0.104	30.00	-9.85
		3710.0	-1.50	1 / 48	20.72	19.22	0.084	30.00	-10.78
		3840.0	-1.50	1 / 48	17.80	16.30	0.043	30.00	-13.70
	30 MHz	3715.0	-1.50	1 / 76	22.58	21.08	0.128	30.00	-8.92
		3840.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3965.0	-1.50	1 / 1	22.57	21.07	0.128	30.00	-8.93
		3715.0	-1.50	1 / 76	22.58	21.08	0.128	30.00	-8.92
		3840.0	-1.50	1 / 1	22.54	21.04	0.127	30.00	-8.96
		3965.0	-1.50	1 / 39	22.68	21.18	0.131	30.00	-8.82
		3840.0	-1.50	1 / 1	21.57	20.07	0.102	30.00	-9.93
		3715.0	-1.50	1 / 76	20.69	19.19	0.083	30.00	-10.81
		3840.0	-1.50	1 / 39	17.80	16.30	0.043	30.00	-13.70
		3720.0	-1.50	1 / 50	22.38	20.88	0.122	30.00	-9.12
		3840.0	-1.50	1 / 50	22.60	21.10	0.129	30.00	-8.90
		3960.0	-1.50	1 / 98	22.36	20.86	0.122	30.00	-9.14
40 MHz	QPSK	3720.0	-1.50	1 / 1	22.51	21.01	0.126	30.00	-8.99
		3840.0	-1.50	1 / 50	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3960.0	-1.50	1 / 1	22.53	21.03	0.127	30.00	-8.97
	16-QAM	3960.0	-1.50	1 / 1	21.69	20.19	0.104	30.00	-9.81
		3840.0	-1.50	1 / 98	20.71	19.21	0.083	30.00	-10.79
		3960.0	-1.50	1 / 98	17.81	16.31	0.043	30.00	-13.69
	π/2 BPSK	3725.0	-1.50	1 / 64	22.52	21.02	0.126	30.00	-8.98
		3840.0	-1.50	1 / 64	22.58	21.08	0.128	30.00	-8.92
		3955.0	-1.50	1 / 1	22.65	21.15	0.130	30.00	-8.85
50 MHz	QPSK	3725.0	-1.50	1 / 126	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 1	22.63	21.13	0.130	30.00	-8.87
		3955.0	-1.50	1 / 1	22.58	21.08	0.128	30.00	-8.92
	16-QAM	3955.0	-1.50	1 / 64	21.73	20.23	0.105	30.00	-9.77
		3840.0	-1.50	1 / 64	20.68	19.18	0.083	30.00	-10.82
		3725.0	-1.50	1 / 64	17.80	16.30	0.043	30.00	-13.70
	π/2 BPSK	3730.0	-1.50	1 / 1	22.58	21.08	0.128	30.00	-8.92
		3840.0	-1.50	1 / 1	22.47	20.97	0.125	30.00	-9.03
		3950.0	-1.50	1 / 1	22.59	21.09	0.129	30.00	-8.91
60 MHz	QPSK	3730.0	-1.50	1 / 81	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3950.0	-1.50	1 / 162	22.50	21.00	0.126	30.00	-9.00
	16-QAM	3730.0	-1.50	1 / 162	21.71	20.21	0.105	30.00	-9.79
		3840.0	-1.50	1 / 162	20.66	19.16	0.082	30.00	-10.84
		3950.0	-1.50	1 / 1	17.63	16.13	0.041	30.00	-13.87
	π/2 BPSK	3735.0	-1.50	1 / 1	22.60	21.10	0.129	30.00	-8.90
		3840.0	-1.50	1 / 187	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3945.0	-1.50	1 / 187	22.55	21.05	0.127	30.00	-8.95
70 MHz	QPSK	3735.0	-1.50	1 / 90	22.41	20.91	0.123	30.00	-9.09
		3840.0	-1.50	1 / 187	22.66	21.16	0.131	30.00	-8.84
		3945.0	-1.50	1 / 187	22.56	21.06	0.128	30.00	-8.94
	16-QAM	3840.0	-1.50	1 / 187	21.62	20.12	0.103	30.00	-9.88
		3840.0	-1.50	1 / 187	20.59	19.09	0.081	30.00	-10.91
		3740.0	-1.50	1 / 1	17.69	16.19	0.042	30.00	-13.81
	π/2 BPSK	3740.0	-1.50	1 / 108	22.30	20.80	0.120	30.00	-9.20
		3840.0	-1.50	1 / 214	22.67	21.17	0.131	30.00	-8.83
		3940.0	-1.50	1 / 1	22.62	21.12	0.129	30.00	-8.88
80 MHz	QPSK	3740.0	-1.50	1 / 1	22.61	21.11	0.129	30.00	-8.89
		3840.0	-1.50	1 / 214	22.56	21.06	0.128	30.00	-8.94
		3940.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
	16-QAM	3740.0	-1.50	1 / 1	21.49	19.99	0.100	30.00	-10.01
		3940.0	-1.50	1 / 108	20.70	19.20	0.083	30.00	-10.80
		3940.0	-1.50	1 / 214	17.79	16.29	0.043	30.00	-13.71
	π/2 BPSK	3745.0	-1.50	1 / 1	22.50	21.00	0.126	30.00	-9.00
		3840.0	-1.50	1 / 238	22.68	21.18	0.131	30.00	-8.82
		3935.0	-1.50	1 / 1	22.57	21.07	0.128	30.00	-8.93
90 MHz	QPSK	3745.0	-1.50	1 / 120	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 238	22.64	21.14	0.130	30.00	-8.86
		3935.0	-1.50	1 / 120	22.41	20.91	0.123	30.00	-9.05
	16-QAM	3745.0	-1.50	1 / 238	21.68	20.18	0.104	30.00	-9.82
		3840.0	-1.50	1 / 1	20.75	19.25	0.084	30.00	-10.75
		3840.0	-1.50	1 / 1	17.79	16.29	0.043	30.00	-13.71
	π/2 BPSK	3750.0	-1.50	1 / 268	22.66	21.16	0.131	30.00	-8.84
		3840.0	-1.50	1 / 135	22.47	20.97	0.125	30.00	-9.03
		3930.0	-1.50	1 / 1	22.60	21.10	0.129	30.00	-8.90
100 MHz	QPSK	3750.0	-1.50	1 / 1	22.70	<b>21.20</b>	0.132	30.00	-8.80
		3840.0	-1.50	1 / 1	22.68	21.18	0.131	30.00	-8.82
		3930.0	-1.50	1 / 1	22.49	20.99	0.126	30.00	-9.01
	16-QAM	3750.0	-1.50	1 / 135	21.66	20.16	0.104	30.00	-9.84
		3840.0	-1.50	1 / 268	20.70	19.20	0.083	30.00	-10.80
		3750.0	-1.50	1 / 135	17.80	16.30	0.043	30.00	-13.70

Table 7-9. Antenna 1b EIRP Data (NR Band n77 (PC3) – C Band)

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					Page 149 of 174
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## 7.6.3 Antenna 4 – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	1.50	1 / 1	25.70	27.20	0.525	30.00	-2.80
		3500.0	1.50	1 / 25	25.68	27.18	0.522	30.00	-2.82
		3540.0	1.50	1 / 1	26.03	27.53	0.566	30.00	-2.47
	QPSK	3460.0	1.50	1 / 25	25.32	26.82	0.481	30.00	-3.18
		3500.0	1.50	1 / 25	25.60	27.10	0.513	30.00	-2.90
		3540.0	1.50	1 / 1	26.09	27.59	0.574	30.00	-2.41
	16-QAM	3540.0	1.50	1 / 25	24.99	26.49	0.446	30.00	-3.51
	64-QAM	3540.0	1.50	1 / 1	23.95	25.45	0.351	30.00	-4.55
	256-QAM	3540.0	1.50	1 / 25	21.22	22.72	0.187	30.00	-7.28
	π/2 BPSK	3465.0	1.50	1 / 76	25.70	27.20	0.525	30.00	-2.80
		3500.0	1.50	1 / 1	25.46	26.96	0.497	30.00	-3.04
		3535.0	1.50	1 / 76	26.20	27.70	0.589	30.00	-2.30
30 MHz	QPSK	3465.0	1.50	1 / 1	25.70	27.20	0.525	30.00	-2.80
		3500.0	1.50	1 / 1	25.53	27.03	0.505	30.00	-2.97
		3535.0	1.50	1 / 76	25.96	27.46	0.557	30.00	-2.54
	16-QAM	3535.0	1.50	1 / 1	25.20	26.70	0.468	30.00	-3.30
	64-QAM	3535.0	1.50	1 / 1	24.17	25.67	0.369	30.00	-4.33
	256-QAM	3535.0	1.50	1 / 39	21.29	22.79	0.190	30.00	-7.21
	π/2 BPSK	3470.0	1.50	1 / 98	25.66	27.16	0.520	30.00	-2.84
		3500.0	1.50	1 / 50	25.68	27.18	0.522	30.00	-2.82
		3530.0	1.50	1 / 1	26.20	27.70	0.589	30.00	-2.30
40 MHz	QPSK	3470.0	1.50	1 / 1	25.66	27.16	0.520	30.00	-2.84
		3500.0	1.50	1 / 98	25.62	27.12	0.515	30.00	-2.88
		3530.0	1.50	1 / 98	26.00	27.50	0.562	30.00	-2.50
	16-QAM	3530.0	1.50	1 / 98	24.94	26.44	0.441	30.00	-3.56
	64-QAM	3530.0	1.50	1 / 50	24.04	25.54	0.358	30.00	-4.46
	256-QAM	3530.0	1.50	1 / 1	21.22	22.72	0.187	30.00	-7.28
	π/2 BPSK	3475.0	1.50	1 / 64	25.70	27.20	0.525	30.00	-2.80
		3500.0	1.50	1 / 1	25.45	26.95	0.495	30.00	-3.05
		3525.0	1.50	1 / 126	26.20	27.70	0.589	30.00	-2.30
50 MHz	QPSK	3475.0	1.50	1 / 126	25.68	27.18	0.522	30.00	-2.82
		3500.0	1.50	1 / 1	25.52	27.02	0.504	30.00	-2.98
		3525.0	1.50	1 / 1	25.99	27.49	0.561	30.00	-2.51
	16-QAM	3525.0	1.50	1 / 1	25.00	26.50	0.447	30.00	-3.50
	64-QAM	3525.0	1.50	1 / 64	24.07	25.57	0.361	30.00	-4.43
	256-QAM	3525.0	1.50	1 / 126	21.33	22.83	0.192	30.00	-7.17
	π/2 BPSK	3480.0	1.50	1 / 81	25.58	27.08	0.511	30.00	-2.92
		3500.0	1.50	1 / 1	25.66	27.16	0.520	30.00	-2.84
		3520.0	1.50	1 / 81	26.16	27.66	0.583	30.00	-2.34
60 MHz	QPSK	3480.0	1.50	1 / 81	25.64	27.14	0.518	30.00	-2.86
		3500.0	1.50	1 / 81	25.70	27.20	0.525	30.00	-2.80
		3520.0	1.50	1 / 162	26.03	27.53	0.566	30.00	-2.47
	16-QAM	3480.0	1.50	1 / 81	25.14	26.64	0.461	30.00	-3.36
	64-QAM	3480.0	1.50	1 / 81	24.48	25.98	0.396	30.00	-4.02
	256-QAM	3480.0	1.50	1 / 81	21.26	22.76	0.189	30.00	-7.24
	π/2 BPSK	3485.0	1.50	1 / 90	25.65	27.15	0.519	30.00	-2.85
		3500.0	1.50	1 / 187	25.69	27.19	0.524	30.00	-2.81
		3515.0	1.50	1 / 1	26.17	27.67	0.585	30.00	-2.33
70 MHz	QPSK	3485.0	1.50	1 / 90	25.65	27.15	0.519	30.00	-2.85
		3500.0	1.50	1 / 1	25.58	27.08	0.511	30.00	-2.92
		3515.0	1.50	1 / 187	26.20	27.70	0.589	30.00	-2.30
	16-QAM	3485.0	1.50	1 / 90	25.28	26.78	0.476	30.00	-3.22
	64-QAM	3515.0	1.50	1 / 90	24.14	25.64	0.366	30.00	-4.36
	256-QAM	3485.0	1.50	1 / 90	21.58	23.08	0.203	30.00	-6.92
	π/2 BPSK	3490.0	1.50	1 / 108	25.67	27.17	0.521	30.00	-2.83
		3500.0	1.50	1 / 1	25.64	27.14	0.518	30.00	-2.86
		3510.0	1.50	1 / 1	26.20	27.70	0.589	30.00	-2.30
80 MHz	QPSK	3490.0	1.50	1 / 108	25.69	27.19	0.524	30.00	-2.81
		3500.0	1.50	1 / 1	25.66	27.16	0.520	30.00	-2.84
		3510.0	1.50	1 / 1	26.13	27.63	0.579	30.00	-2.37
	16-QAM	3510.0	1.50	1 / 1	25.01	26.51	0.448	30.00	-3.49
	64-QAM	3490.0	1.50	1 / 108	24.45	25.95	0.394	30.00	-4.05
	256-QAM	3510.0	1.50	1 / 214	21.21	22.71	0.187	30.00	-7.29
	π/2 BPSK	3495.0	1.50	1 / 1	25.66	27.16	0.520	30.00	-2.84
		3500.0	1.50	1 / 1	25.48	26.98	0.499	30.00	-3.02
		3505.0	1.50	1 / 1	26.20	27.70	0.589	30.00	-2.30
90 MHz	QPSK	3495.0	1.50	1 / 1	25.70	27.20	0.525	30.00	-2.80
		3500.0	1.50	1 / 120	25.51	27.01	0.502	30.00	-2.99
		3505.0	1.50	1 / 1	26.13	27.63	0.579	30.00	-2.37
	16-QAM	3505.0	1.50	1 / 120	24.90	26.40	0.437	30.00	-3.60
	64-QAM	3505.0	1.50	1 / 1	24.11	25.61	0.364	30.00	-4.39
	256-QAM	3505.0	1.50	1 / 1	21.17	22.67	0.185	30.00	-7.33
	π/2 BPSK	3500.0	1.50	1 / 135	26.10	27.60	0.575	30.00	-2.40
		3500.0	1.50	1 / 268	26.20	27.70	0.589	30.00	-2.30
		3500.0	1.50	1 / 135	25.20	26.70	0.468	30.00	-3.30
100 MHz	16-QAM	3500.0	1.50	1 / 135	24.14	25.64	0.366	30.00	-4.36
	64-QAM	3500.0	1.50	1 / 135	21.36	22.86	0.193	30.00	-7.14

Table 7-10. Antenna 4 EIRP Data (NR Band n77 (PC2) – DoD Band)

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					Page 150 of 174
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	1.50	1 / 48	24.02	25.52	0.356	30.00	-4.48
		3500.0	1.50	1 / 25	24.11	25.61	0.364	30.00	-4.39
		3540.0	1.50	1 / 1	24.68	26.18	0.415	30.00	-3.82
	QPSK	3460.0	1.50	1 / 48	24.20	25.70	0.372	30.00	-4.30
		3500.0	1.50	1 / 25	23.99	25.49	0.354	30.00	-4.51
		3540.0	1.50	1 / 48	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3540.0	1.50	1 / 48	23.69	25.19	0.330	30.00	-4.81
	16-QAM	3540.0	1.50	1 / 48	22.58	24.08	0.256	30.00	-5.92
	64-QAM	3540.0	1.50	1 / 48	19.74	21.24	0.133	30.00	-8.76
	256-QAM	3540.0	1.50	1 / 25	19.69	21.19	0.132	30.00	-8.81
30 MHz	π/2 BPSK	3465.0	1.50	1 / 1	24.07	25.57	0.361	30.00	-4.43
		3500.0	1.50	1 / 76	24.00	25.50	0.355	30.00	-4.50
		3535.0	1.50	1 / 39	24.47	25.97	0.395	30.00	-4.03
	QPSK	3465.0	1.50	1 / 76	24.20	25.70	0.372	30.00	-4.30
		3500.0	1.50	1 / 39	24.19	25.69	0.371	30.00	-4.31
		3535.0	1.50	1 / 1	24.69	<b>26.19</b>	0.416	30.00	-3.81
		3535.0	1.50	1 / 76	23.67	25.17	0.329	30.00	-4.83
	16-QAM	3535.0	1.50	1 / 1	22.67	24.17	0.261	30.00	-5.83
	64-QAM	3535.0	1.50	1 / 1	22.67	24.17	0.261	30.00	-5.83
	256-QAM	3535.0	1.50	1 / 39	19.69	21.19	0.132	30.00	-8.81
40 MHz	π/2 BPSK	3470.0	1.50	1 / 50	24.20	25.70	0.372	30.00	-4.30
		3500.0	1.50	1 / 50	24.12	25.62	0.365	30.00	-4.38
		3530.0	1.50	1 / 1	24.53	26.03	0.401	30.00	-3.97
	QPSK	3470.0	1.50	1 / 98	24.07	25.57	0.361	30.00	-4.43
		3500.0	1.50	1 / 98	24.02	25.52	0.356	30.00	-4.48
		3530.0	1.50	1 / 1	24.61	<b>26.11</b>	0.408	30.00	-3.89
		3530.0	1.50	1 / 1	23.44	24.94	0.312	30.00	-5.06
	16-QAM	3530.0	1.50	1 / 98	22.67	24.17	0.261	30.00	-5.83
	64-QAM	3530.0	1.50	1 / 98	22.67	24.17	0.261	30.00	-5.83
	256-QAM	3530.0	1.50	1 / 50	19.82	21.32	0.136	30.00	-8.68
50 MHz	π/2 BPSK	3475.0	1.50	1 / 64	23.97	25.47	0.352	30.00	-4.53
		3500.0	1.50	1 / 1	24.16	25.66	0.368	30.00	-4.34
		3525.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
	QPSK	3475.0	1.50	1 / 126	24.19	25.69	0.371	30.00	-4.31
		3500.0	1.50	1 / 126	24.13	25.63	0.366	30.00	-4.37
		3525.0	1.50	1 / 126	24.52	26.02	0.400	30.00	-3.98
		3525.0	1.50	1 / 64	23.68	25.18	0.330	30.00	-4.82
	16-QAM	3525.0	1.50	1 / 126	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3525.0	1.50	1 / 126	22.68	24.18	0.262	30.00	-5.82
	256-QAM	3525.0	1.50	1 / 64	19.76	21.26	0.134	30.00	-8.74
60 MHz	π/2 BPSK	3480.0	1.50	1 / 162	24.12	25.62	0.365	30.00	-4.38
		3500.0	1.50	1 / 81	24.20	25.70	0.372	30.00	-4.30
		3520.0	1.50	1 / 1	24.52	<b>26.02</b>	0.400	30.00	-3.98
	QPSK	3480.0	1.50	1 / 162	24.06	25.56	0.360	30.00	-4.44
		3500.0	1.50	1 / 81	24.18	25.68	0.370	30.00	-4.32
		3520.0	1.50	1 / 162	24.49	25.99	0.397	30.00	-4.01
		3520.0	1.50	1 / 162	23.53	25.03	0.318	30.00	-4.97
	16-QAM	3520.0	1.50	1 / 162	22.53	24.03	0.253	30.00	-5.97
	64-QAM	3520.0	1.50	1 / 162	19.85	21.35	0.136	30.00	-8.65
	256-QAM	3520.0	1.50	1 / 1	19.70	21.20	0.132	30.00	-8.80
70 MHz	π/2 BPSK	3485.0	1.50	1 / 1	24.13	25.63	0.366	30.00	-4.37
		3500.0	1.50	1 / 1	24.07	25.57	0.361	30.00	-4.43
		3515.0	1.50	1 / 187	24.68	26.18	0.415	30.00	-3.82
	QPSK	3485.0	1.50	1 / 187	24.17	25.67	0.369	30.00	-4.33
		3500.0	1.50	1 / 90	24.11	25.61	0.364	30.00	-4.39
		3515.0	1.50	1 / 90	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3515.0	1.50	1 / 1	23.36	24.86	0.306	30.00	-5.14
	16-QAM	3515.0	1.50	1 / 187	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3515.0	1.50	1 / 187	19.70	21.20	0.132	30.00	-8.80
	256-QAM	3515.0	1.50	1 / 1	19.68	21.18	0.131	30.00	-8.82
80 MHz	π/2 BPSK	3490.0	1.50	1 / 214	24.00	25.50	0.355	30.00	-4.50
		3500.0	1.50	1 / 214	24.20	25.70	0.372	30.00	-4.30
		3510.0	1.50	1 / 108	24.50	26.00	0.398	30.00	-4.00
	QPSK	3490.0	1.50	1 / 108	24.02	25.52	0.356	30.00	-4.48
		3500.0	1.50	1 / 108	24.16	25.66	0.368	30.00	-4.34
		3510.0	1.50	1 / 108	24.56	<b>26.06</b>	0.404	30.00	-3.94
		3510.0	1.50	1 / 108	23.69	25.19	0.330	30.00	-4.81
	16-QAM	3510.0	1.50	1 / 108	22.72	24.22	0.264	30.00	-5.78
	64-QAM	3510.0	1.50	1 / 108	19.68	21.18	0.131	30.00	-8.82
	256-QAM	3510.0	1.50	1 / 214	19.68	21.18	0.131	30.00	-8.82
90 MHz	π/2 BPSK	3495.0	1.50	1 / 238	24.20	25.70	0.372	30.00	-4.30
		3500.0	1.50	1 / 120	24.04	25.54	0.358	30.00	-4.46
		3505.0	1.50	1 / 1	24.54	26.04	0.402	30.00	-3.96
	QPSK	3495.0	1.50	1 / 1	24.08	25.58	0.361	30.00	-4.42
		3500.0	1.50	1 / 120	23.96	25.46	0.352	30.00	-4.54
		3505.0	1.50	1 / 1	24.61	<b>26.11</b>	0.408	30.00	-3.89
		3505.0	1.50	1 / 120	23.51	25.01	0.317	30.00	-4.99
	16-QAM	3505.0	1.50	1 / 238	22.63	24.13	0.259	30.00	-5.87
	64-QAM	3505.0	1.50	1 / 238	19.67	21.17	0.131	30.00	-8.83
	256-QAM	3505.0	1.50	1 / 120	19.67	21.17	0.131	30.00	-8.83
100 MHz	π/2 BPSK	3500.0	1.50	1 / 268	24.50	26.00	0.398	30.00	-4.00
	QPSK	3500.0	1.50	1 / 268	24.67	<b>26.17</b>	0.414	30.00	-3.83
	16-QAM	3500.0	1.50	1 / 268	23.68	25.18	0.330	30.00	-4.82
	64-QAM	3500.0	1.50	1 / 1	22.58	24.08	0.256	30.00	-5.92
	256-QAM	3500.0	1.50	1 / 268	19.69	21.19	0.132	30.00	-8.81

**Table 7-11. Antenna 4 EIRP Data (NR Band n77 (PC3) – DoD Band)**

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of  element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device				Page 151 of 174

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	1.50	1 / 1	25.98	27.48	0.560	30.00	-2.52
		3840.0	1.50	1 / 48	26.20	<b>27.70</b>	0.589	30.00	-2.30
		3970.0	1.50	1 / 48	26.05	27.55	0.569	30.00	-2.45
	QPSK	3710.0	1.50	1 / 1	26.15	27.65	0.582	30.00	-2.35
		3840.0	1.50	1 / 1	26.15	27.65	0.582	30.00	-2.35
		3970.0	1.50	1 / 25	26.18	27.68	0.586	30.00	-2.32
	16-QAM	3840.0	1.50	1 / 25	25.22	26.72	0.470	30.00	-3.28
		3840.0	1.50	1 / 1	24.15	25.65	0.367	30.00	-4.35
		3840.0	1.50	1 / 25	21.27	<b>22.77</b>	0.189	30.00	-7.23
	30 MHz	3715.0	1.50	1 / 39	26.20	<b>27.70</b>	0.589	30.00	-2.30
		3840.0	1.50	1 / 76	26.09	27.59	0.574	30.00	-2.41
		3965.0	1.50	1 / 76	26.20	<b>27.70</b>	0.589	30.00	-2.30
40 MHz	QPSK	3715.0	1.50	1 / 39	26.08	27.58	0.573	30.00	-2.42
		3840.0	1.50	1 / 1	26.09	27.59	0.574	30.00	-2.41
		3965.0	1.50	1 / 76	26.11	27.61	0.577	30.00	-2.39
	16-QAM	3715.0	1.50	1 / 39	25.13	26.63	0.460	30.00	-3.37
		3965.0	1.50	1 / 1	24.15	25.65	0.367	30.00	-4.35
		3840.0	1.50	1 / 76	21.29	22.79	0.190	30.00	-7.21
	π/2 BPSK	3720.0	1.50	1 / 98	26.15	27.65	0.582	30.00	-2.35
		3840.0	1.50	1 / 98	26.03	27.53	0.566	30.00	-2.47
		3960.0	1.50	1 / 50	26.20	<b>27.70</b>	0.589	30.00	-2.30
	QPSK	3720.0	1.50	1 / 50	25.96	27.46	0.557	30.00	-2.54
		3840.0	1.50	1 / 50	26.04	27.54	0.568	30.00	-2.46
		3960.0	1.50	1 / 1	26.20	<b>27.70</b>	0.589	30.00	-2.30
50 MHz	16-QAM	3720.0	1.50	1 / 50	25.17	26.67	0.465	30.00	-3.33
		3720.0	1.50	1 / 98	24.17	25.67	0.369	30.00	-4.33
		3840.0	1.50	1 / 1	24.17	25.67	0.369	30.00	-4.33
	256-QAM	3840.0	1.50	1 / 50	21.23	22.73	0.187	30.00	-7.27
		3725.0	1.50	1 / 64	26.03	27.53	0.566	30.00	-2.47
		3840.0	1.50	1 / 126	26.17	<b>27.70</b>	0.585	30.00	-2.33
	QPSK	3955.0	1.50	1 / 126	25.98	27.48	0.560	30.00	-2.52
		3725.0	1.50	1 / 126	26.20	<b>27.70</b>	0.589	30.00	-2.30
		3840.0	1.50	1 / 64	26.20	<b>27.70</b>	0.589	30.00	-2.30
	16-QAM	3955.0	1.50	1 / 64	26.09	27.59	0.574	30.00	-2.41
		3725.0	1.50	1 / 1	25.80	27.30	0.537	30.00	-2.70
		3725.0	1.50	1 / 1	24.15	25.65	0.367	30.00	-4.35
60 MHz	256-QAM	3725.0	1.50	1 / 1	21.74	23.24	0.211	30.00	-6.76
		3730.0	1.50	1 / 81	25.92	27.42	0.552	30.00	-2.58
		3840.0	1.50	1 / 162	26.20	<b>27.70</b>	0.589	30.00	-2.30
	π/2 BPSK	3950.0	1.50	1 / 1	25.95	27.45	0.556	30.00	-2.55
		3730.0	1.50	1 / 162	26.14	27.64	0.581	30.00	-2.36
		3840.0	1.50	1 / 1	26.20	<b>27.70</b>	0.589	30.00	-2.30
	QPSK	3950.0	1.50	1 / 81	26.14	27.64	0.581	30.00	-2.36
		3730.0	1.50	1 / 162	26.14	27.64	0.581	30.00	-2.36
		3840.0	1.50	1 / 81	25.86	27.36	0.545	30.00	-2.64
70 MHz	16-QAM	3950.0	1.50	1 / 81	24.16	25.66	0.368	30.00	-4.34
		3840.0	1.50	1 / 81	21.99	23.49	0.223	30.00	-6.51
		3735.0	1.50	1 / 1	26.20	<b>27.70</b>	0.589	30.00	-2.30
	QPSK	3840.0	1.50	1 / 1	25.98	27.48	0.560	30.00	-2.52
		3945.0	1.50	1 / 1	25.99	27.49	0.561	30.00	-2.51
		3735.0	1.50	1 / 187	26.15	27.65	0.582	30.00	-2.35
	256-QAM	3840.0	1.50	1 / 1	26.16	27.66	0.583	30.00	-2.34
		3945.0	1.50	1 / 90	21.56	23.06	0.202	30.00	-6.94
		3735.0	1.50	1 / 1	25.93	27.43	0.553	30.00	-2.57
80 MHz	π/2 BPSK	3840.0	1.50	1 / 108	26.09	27.59	0.574	30.00	-2.41
		3940.0	1.50	1 / 214	26.00	<b>27.70</b>	0.562	30.00	-2.50
		3740.0	1.50	1 / 214	26.20	<b>27.70</b>	0.589	30.00	-2.30
	QPSK	3840.0	1.50	1 / 108	26.08	27.58	0.573	30.00	-2.42
		3940.0	1.50	1 / 108	26.18	27.68	0.586	30.00	-2.32
		3740.0	1.50	1 / 1	25.18	26.68	0.466	30.00	-3.32
	16-QAM	3840.0	1.50	1 / 1	24.15	25.65	0.367	30.00	-4.35
		3740.0	1.50	1 / 214	21.33	22.83	0.192	30.00	-7.17
		3740.0	1.50	1 / 1	26.03	27.53	0.566	30.00	-2.47
90 MHz	π/2 BPSK	3840.0	1.50	1 / 120	26.06	<b>27.70</b>	0.570	30.00	-2.44
		3935.0	1.50	1 / 120	26.13	27.63	0.579	30.00	-2.37
		3745.0	1.50	1 / 238	26.10	27.60	0.575	30.00	-2.40
	QPSK	3840.0	1.50	1 / 1	26.20	<b>27.70</b>	0.589	30.00	-2.30
		3935.0	1.50	1 / 120	26.15	27.65	0.582	30.00	-2.35
		3745.0	1.50	1 / 120	26.85	27.35	0.543	30.00	-2.65
	16-QAM	3935.0	1.50	1 / 120	24.30	25.89	0.386	30.00	-4.11
		3745.0	1.50	1 / 120	22.08	23.58	0.228	30.00	-6.42
		3750.0	1.50	1 / 1	25.90	27.40	0.550	30.00	-2.60
100 MHz	π/2 BPSK	3840.0	1.50	1 / 268	25.93	27.43	0.553	30.00	-2.57
		3930.0	1.50	1 / 135	26.20	<b>27.70</b>	0.589	30.00	-2.30
		3750.0	1.50	1 / 135	26.19	27.69	0.587	30.00	-2.31
	QPSK	3840.0	1.50	1 / 135	25.94	27.44	0.555	30.00	-2.56
		3930.0	1.50	1 / 268	26.14	27.64	0.581	30.00	-2.36
		3750.0	1.50	1 / 135	25.63	27.13	0.516	30.00	-2.87
	16-QAM	3750.0	1.50	1 / 135	24.79	26.29	0.426	30.00	-3.71
		3750.0	1.50	1 / 135	21.54	23.04	0.201	30.00	-6.96

**Table 7-12. Antenna 4 EIRP Data (NR Band n77 (PC2) – C Band)**

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					Page 152 of 174

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	1.50	1 / 25	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3840.0	1.50	1 / 48	24.53	26.03	0.401	30.00	-3.97
		3970.0	1.50	1 / 25	24.48	25.98	0.396	30.00	-4.02
	QPSK	3710.0	1.50	1 / 1	24.58	26.08	0.406	30.00	-3.92
		3840.0	1.50	1 / 25	24.45	25.95	0.394	30.00	-4.05
		3970.0	1.50	1 / 25	24.70	<b>26.20</b>	0.417	30.00	-3.80
	16-QAM	3970.0	1.50	1 / 1	23.70	25.20	0.331	30.00	-4.80
	64-QAM	3970.0	1.50	1 / 1	22.61	24.11	0.258	30.00	-5.89
	256-QAM	3710.0	1.50	1 / 1	19.71	21.21	0.132	30.00	-8.79
	π/2 BPSK	3715.0	1.50	1 / 39	24.57	26.07	0.405	30.00	-3.93
30 MHz	π/2 BPSK	3840.0	1.50	1 / 76	24.65	26.15	0.412	30.00	-3.85
		3965.0	1.50	1 / 39	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3715.0	1.50	1 / 76	24.38	25.88	0.387	30.00	-4.12
	QPSK	3840.0	1.50	1 / 76	24.59	26.09	0.406	30.00	-3.91
		3965.0	1.50	1 / 1	24.64	26.14	0.411	30.00	-3.86
		3840.0	1.50	1 / 76	23.71	25.21	0.332	30.00	-4.79
	16-QAM	3840.0	1.50	1 / 39	22.65	24.15	0.260	30.00	-5.85
	64-QAM	3840.0	1.50	1 / 1	19.81	21.31	0.135	30.00	-8.69
	256-QAM	3715.0	1.50	1 / 1	19.81	21.31	0.135	30.00	-8.69
	π/2 BPSK	3720.0	1.50	1 / 1	24.45	25.95	0.394	30.00	-4.05
40 MHz	π/2 BPSK	3840.0	1.50	1 / 50	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3960.0	1.50	1 / 98	24.64	26.14	0.411	30.00	-3.86
		3720.0	1.50	1 / 50	24.49	25.99	0.397	30.00	-4.01
	QPSK	3840.0	1.50	1 / 98	24.59	26.09	0.406	30.00	-3.91
		3960.0	1.50	1 / 50	24.51	26.01	0.399	30.00	-3.99
		3720.0	1.50	1 / 1	23.67	25.17	0.329	30.00	-4.83
	16-QAM	3960.0	1.50	1 / 1	22.71	24.21	0.264	30.00	-5.79
	64-QAM	3720.0	1.50	1 / 1	19.81	21.31	0.135	30.00	-8.69
	256-QAM	3840.0	1.50	1 / 1	19.81	21.31	0.135	30.00	-8.69
	π/2 BPSK	3725.0	1.50	1 / 126	24.42	25.92	0.391	30.00	-4.08
50 MHz	π/2 BPSK	3840.0	1.50	1 / 64	24.54	26.04	0.402	30.00	-3.96
		3955.0	1.50	1 / 64	24.56	26.06	0.404	30.00	-3.94
		3725.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
	QPSK	3840.0	1.50	1 / 64	24.67	26.17	0.414	30.00	-3.83
		3955.0	1.50	1 / 64	24.67	26.17	0.414	30.00	-3.83
		3725.0	1.50	1 / 1	23.55	25.05	0.320	30.00	-4.95
	16-QAM	3955.0	1.50	1 / 1	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3840.0	1.50	1 / 126	22.68	24.18	0.262	30.00	-5.82
	256-QAM	3955.0	1.50	1 / 1	19.80	21.30	0.135	30.00	-8.70
	π/2 BPSK	3730.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
60 MHz	π/2 BPSK	3840.0	1.50	1 / 1	24.66	26.16	0.413	30.00	-3.84
		3950.0	1.50	1 / 1	24.45	25.95	0.394	30.00	-4.05
		3730.0	1.50	1 / 1	24.58	26.08	0.406	30.00	-3.92
	QPSK	3840.0	1.50	1 / 1	24.50	26.00	0.398	30.00	-4.00
		3950.0	1.50	1 / 1	24.45	25.95	0.394	30.00	-4.05
		3730.0	1.50	1 / 81	23.66	25.16	0.328	30.00	-4.84
	16-QAM	3950.0	1.50	1 / 81	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3730.0	1.50	1 / 81	19.71	21.21	0.132	30.00	-8.79
	256-QAM	3840.0	1.50	1 / 81	19.71	21.21	0.132	30.00	-8.79
	π/2 BPSK	3735.0	1.50	1 / 1	24.68	26.18	0.415	30.00	-3.82
70 MHz	π/2 BPSK	3840.0	1.50	1 / 187	24.67	26.17	0.414	30.00	-3.83
		3945.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3735.0	1.50	1 / 1	24.68	26.18	0.415	30.00	-3.82
	QPSK	3840.0	1.50	1 / 1	24.69	26.19	0.416	30.00	-3.81
		3945.0	1.50	1 / 187	24.43	25.93	0.392	30.00	-4.07
		3735.0	1.50	1 / 187	23.68	25.18	0.330	30.00	-4.82
	16-QAM	3840.0	1.50	1 / 187	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3945.0	1.50	1 / 187	19.81	21.31	0.135	30.00	-8.69
	256-QAM	3745.0	1.50	1 / 90	19.81	21.31	0.135	30.00	-8.69
	π/2 BPSK	3740.0	1.50	1 / 214	24.58	26.08	0.406	30.00	-3.92
80 MHz	π/2 BPSK	3840.0	1.50	1 / 1	24.65	26.15	0.412	30.00	-3.85
		3940.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3740.0	1.50	1 / 214	24.67	26.17	0.414	30.00	-3.83
	QPSK	3840.0	1.50	1 / 214	24.51	26.01	0.399	30.00	-3.99
		3940.0	1.50	1 / 108	24.58	26.08	0.406	30.00	-3.92
		3740.0	1.50	1 / 214	23.70	25.20	0.331	30.00	-4.80
	16-QAM	3840.0	1.50	1 / 214	22.67	24.17	0.261	30.00	-5.83
	64-QAM	3840.0	1.50	1 / 108	19.77	21.27	0.134	30.00	-8.73
	256-QAM	3740.0	1.50	1 / 108	19.77	21.27	0.134	30.00	-8.73
	π/2 BPSK	3745.0	1.50	1 / 238	24.51	26.01	0.399	30.00	-3.99
90 MHz	π/2 BPSK	3840.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3935.0	1.50	1 / 1	24.64	26.14	0.411	30.00	-3.86
		3745.0	1.50	1 / 120	24.61	26.11	0.408	30.00	-3.89
	QPSK	3840.0	1.50	1 / 1	24.69	26.19	0.416	30.00	-3.81
		3935.0	1.50	1 / 238	24.66	26.16	0.413	30.00	-3.84
		3745.0	1.50	1 / 120	23.66	25.16	0.328	30.00	-4.84
	16-QAM	3935.0	1.50	1 / 120	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3840.0	1.50	1 / 1	19.76	21.26	0.134	30.00	-8.74
	256-QAM	3745.0	1.50	1 / 120	19.76	21.26	0.134	30.00	-8.74
	π/2 BPSK	3750.0	1.50	1 / 268	24.64	26.14	0.411	30.00	-3.86
100 MHz	π/2 BPSK	3840.0	1.50	1 / 1	24.69	26.19	0.416	30.00	-3.81
		3930.0	1.50	1 / 268	24.46	25.96	0.394	30.00	-4.04
		3750.0	1.50	1 / 135	24.40	25.90	0.389	30.00	-4.10
	QPSK	3840.0	1.50	1 / 1	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3930.0	1.50	1 / 135	24.70	<b>26.20</b>	0.417	30.00	-3.80
		3750.0	1.50	1 / 268	23.68	25.18	0.330	30.00	-4.82
	16-QAM	3930.0	1.50	1 / 268	22.68	24.18	0.262	30.00	-5.82
	64-QAM	3930.0	1.50	1 / 268	19.71	21.21	0.132	30.00	-8.79
	256-QAM	3840.0	1.50	1 / 268	19.71	21.21	0.132	30.00	-8.79

Table 7-13. Antenna 4 EIRP Data (NR Band n77 (PC3) – C Band)

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					Page 153 of 174
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## 7.6.4 Antenna 2b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	-3.90	1 / 48	22.65	18.75	0.075	30.00	-11.25
		3500.0	-3.90	1 / 48	22.56	18.66	0.073	30.00	-11.34
		3540.0	-3.90	1 / 25	22.64	18.74	0.075	30.00	-11.26
	QPSK	3460.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	22.68	18.78	0.076	30.00	-11.22
		3540.0	-3.90	1 / 48	22.65	18.75	0.075	30.00	-11.25
	16-QAM	3500.0	-3.90	1 / 25	21.71	17.81	0.060	30.00	-12.19
	64-QAM	3460.0	-3.90	1 / 48	20.64	16.74	0.047	30.00	-13.26
	256-QAM	3460.0	-3.90	1 / 48	17.78	13.88	0.024	30.00	-16.12
	π/2 BPSK	3465.0	-3.90	1 / 76	22.65	18.75	0.075	30.00	-11.25
		3500.0	-3.90	1 / 76	22.59	18.69	0.074	30.00	-11.31
		3535.0	-3.90	1 / 1	22.56	18.66	0.073	30.00	-11.34
30 MHz	QPSK	3465.0	-3.90	1 / 76	22.60	18.70	0.074	30.00	-11.30
		3500.0	-3.90	1 / 76	22.64	18.74	0.075	30.00	-11.26
		3535.0	-3.90	1 / 76	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3465.0	-3.90	1 / 1	21.79	17.89	0.062	30.00	-12.11
	64-QAM	3535.0	-3.90	1 / 39	20.75	16.85	0.048	30.00	-13.15
	256-QAM	3535.0	-3.90	1 / 76	17.90	14.00	0.025	30.00	-16.00
	π/2 BPSK	3470.0	-3.90	1 / 98	22.52	18.62	0.073	30.00	-11.38
		3500.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3530.0	-3.90	1 / 98	22.66	18.76	0.075	30.00	-11.24
40 MHz	QPSK	3470.0	-3.90	1 / 50	22.69	18.79	0.076	30.00	-11.21
		3500.0	-3.90	1 / 1	22.52	18.62	0.073	30.00	-11.38
		3530.0	-3.90	1 / 50	22.64	18.74	0.075	30.00	-11.26
	16-QAM	3470.0	-3.90	1 / 1	21.71	17.81	0.060	30.00	-12.19
	64-QAM	3470.0	-3.90	1 / 1	20.69	16.79	0.048	30.00	-13.21
	256-QAM	3470.0	-3.90	1 / 50	17.75	13.85	0.024	30.00	-16.15
	π/2 BPSK	3475.0	-3.90	1 / 1	22.64	18.74	0.075	30.00	-11.26
		3500.0	-3.90	1 / 64	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3525.0	-3.90	1 / 1	22.62	18.72	0.074	30.00	-11.28
50 MHz	QPSK	3475.0	-3.90	1 / 64	22.63	18.73	0.075	30.00	-11.27
		3500.0	-3.90	1 / 126	22.47	18.57	0.072	30.00	-11.43
		3525.0	-3.90	1 / 64	22.63	18.73	0.075	30.00	-11.27
	16-QAM	3525.0	-3.90	1 / 126	21.49	17.59	0.057	30.00	-12.41
	64-QAM	3525.0	-3.90	1 / 64	20.68	16.78	0.048	30.00	-13.22
	256-QAM	3500.0	-3.90	1 / 64	17.78	13.88	0.024	30.00	-16.12
	π/2 BPSK	3480.0	-3.90	1 / 81	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 162	22.64	18.74	0.075	30.00	-11.26
		3520.0	-3.90	1 / 162	22.54	18.64	0.073	30.00	-11.36
60 MHz	QPSK	3480.0	-3.90	1 / 81	22.59	18.69	0.074	30.00	-11.31
		3500.0	-3.90	1 / 162	22.59	18.69	0.074	30.00	-11.31
		3520.0	-3.90	1 / 162	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3520.0	-3.90	1 / 162	21.66	17.76	0.060	30.00	-12.24
	64-QAM	3500.0	-3.90	1 / 81	20.65	16.75	0.047	30.00	-13.25
	256-QAM	3520.0	-3.90	1 / 81	17.69	13.79	0.024	30.00	-16.21
	π/2 BPSK	3485.0	-3.90	1 / 90	22.67	18.77	0.075	30.00	-11.23
		3500.0	-3.90	1 / 1	22.64	18.74	0.075	30.00	-11.26
		3515.0	-3.90	1 / 90	22.53	18.63	0.073	30.00	-11.37
70 MHz	QPSK	3485.0	-3.90	1 / 1	22.55	18.65	0.073	30.00	-11.35
		3500.0	-3.90	1 / 90	22.39	18.49	0.071	30.00	-11.51
		3515.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3485.0	-3.90	1 / 1	21.63	17.73	0.059	30.00	-12.27
	64-QAM	3485.0	-3.90	1 / 90	20.71	16.81	0.048	30.00	-13.19
	256-QAM	3515.0	-3.90	1 / 1	17.74	13.84	0.024	30.00	-16.16
	π/2 BPSK	3490.0	-3.90	1 / 108	22.35	18.45	0.070	30.00	-11.55
		3500.0	-3.90	1 / 1	22.62	18.72	0.074	30.00	-11.28
		3510.0	-3.90	1 / 214	22.69	18.79	0.076	30.00	-11.21
80 MHz	QPSK	3490.0	-3.90	1 / 108	22.49	18.59	0.072	30.00	-11.41
		3500.0	-3.90	1 / 1	22.65	18.75	0.075	30.00	-11.25
		3510.0	-3.90	1 / 214	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3510.0	-3.90	1 / 214	21.68	17.78	0.060	30.00	-12.22
	64-QAM	3500.0	-3.90	1 / 214	20.64	16.74	0.047	30.00	-13.26
	256-QAM	3490.0	-3.90	1 / 108	17.77	13.87	0.024	30.00	-16.13
	π/2 BPSK	3495.0	-3.90	1 / 1	22.62	18.72	0.074	30.00	-11.28
		3500.0	-3.90	1 / 1	22.30	18.40	0.069	30.00	-11.60
		3505.0	-3.90	1 / 238	22.64	18.74	0.075	30.00	-11.26
90 MHz	QPSK	3495.0	-3.90	1 / 1	22.29	18.39	0.069	30.00	-11.61
		3500.0	-3.90	1 / 238	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3505.0	-3.90	1 / 120	22.62	18.72	0.074	30.00	-11.28
	16-QAM	3505.0	-3.90	1 / 1	21.60	17.70	0.059	30.00	-12.30
	64-QAM	3505.0	-3.90	1 / 238	20.65	16.75	0.047	30.00	-13.25
	256-QAM	3505.0	-3.90	1 / 1	17.80	13.90	0.025	30.00	-16.10
	π/2 BPSK	3500.0	-3.90	1 / 135	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	22.68	18.78	0.076	30.00	-11.22
		3505.0	-3.90	1 / 135	21.64	17.74	0.059	30.00	-12.26
		3500.0	-3.90	1 / 1	20.69	16.79	0.048	30.00	-13.21
		3500.0	-3.90	1 / 135	17.74	13.84	0.024	30.00	-16.16

Table 7-14. Antenna 2b EIRP Data (NR Band n77 (PC2) – DoD Band)

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device				Page 154 of 174	

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3460.0	-3.90	1 / 25	22.65	18.75	0.075	30.00	-11.25
		3500.0	-3.90	1 / 1	22.63	18.73	0.075	30.00	-11.27
		3540.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
	QPSK	3460.0	-3.90	1 / 48	22.54	18.64	0.073	30.00	-11.36
		3500.0	-3.90	1 / 1	22.57	18.67	0.074	30.00	-11.33
		3540.0	-3.90	1 / 25	22.55	18.65	0.073	30.00	-11.35
	16-QAM	3540.0	-3.90	1 / 25	21.66	17.76	0.060	30.00	-12.24
	64-QAM	3460.0	-3.90	1 / 25	20.71	16.81	0.048	30.00	-13.19
	256-QAM	3460.0	-3.90	1 / 48	17.80	13.90	0.025	30.00	-16.10
	π/2 BPSK	3465.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 76	22.60	18.70	0.074	30.00	-11.30
		3535.0	-3.90	1 / 76	22.32	18.42	0.070	30.00	-11.58
30 MHz	QPSK	3465.0	-3.90	1 / 76	22.63	18.73	0.075	30.00	-11.27
		3500.0	-3.90	1 / 39	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3535.0	-3.90	1 / 76	22.66	18.76	0.075	30.00	-11.24
	16-QAM	3535.0	-3.90	1 / 1	21.63	17.73	0.059	30.00	-12.27
	64-QAM	3465.0	-3.90	1 / 1	20.69	16.79	0.048	30.00	-13.21
	256-QAM	3535.0	-3.90	1 / 1	17.80	13.90	0.025	30.00	-16.10
	π/2 BPSK	3470.0	-3.90	1 / 98	22.55	18.65	0.073	30.00	-11.35
		3500.0	-3.90	1 / 50	22.51	18.61	0.073	30.00	-11.39
		3530.0	-3.90	1 / 1	22.55	18.65	0.073	30.00	-11.35
	QPSK	3470.0	-3.90	1 / 50	22.56	18.66	0.073	30.00	-11.34
		3500.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3530.0	-3.90	1 / 50	22.68	18.78	0.076	30.00	-11.22
40 MHz	16-QAM	3470.0	-3.90	1 / 98	21.64	17.74	0.059	30.00	-12.26
	64-QAM	3470.0	-3.90	1 / 1	20.70	16.80	0.048	30.00	-13.20
	256-QAM	3470.0	-3.90	1 / 50	17.76	13.86	0.024	30.00	-16.14
	π/2 BPSK	3475.0	-3.90	1 / 1	22.65	18.75	0.075	30.00	-11.25
		3500.0	-3.90	1 / 64	22.66	18.76	0.075	30.00	-11.24
		3525.0	-3.90	1 / 64	22.51	18.61	0.073	30.00	-11.39
	QPSK	3475.0	-3.90	1 / 64	22.64	18.74	0.075	30.00	-11.26
		3500.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3525.0	-3.90	1 / 126	22.62	18.72	0.074	30.00	-11.28
	16-QAM	3475.0	-3.90	1 / 126	21.64	17.74	0.059	30.00	-12.26
	64-QAM	3500.0	-3.90	1 / 64	20.67	16.77	0.048	30.00	-13.23
	256-QAM	3500.0	-3.90	1 / 1	17.72	13.82	0.024	30.00	-16.18
50 MHz	π/2 BPSK	3480.0	-3.90	1 / 81	22.65	18.75	0.075	30.00	-11.25
		3500.0	-3.90	1 / 1	22.60	18.70	0.074	30.00	-11.30
		3520.0	-3.90	1 / 162	22.70	<b>18.80</b>	0.076	30.00	-11.20
	QPSK	3480.0	-3.90	1 / 162	22.52	18.62	0.073	30.00	-11.38
		3500.0	-3.90	1 / 162	22.69	18.79	0.076	30.00	-11.21
		3520.0	-3.90	1 / 81	22.69	18.79	0.076	30.00	-11.21
	16-QAM	3480.0	-3.90	1 / 162	21.67	17.77	0.060	30.00	-12.23
	64-QAM	3500.0	-3.90	1 / 64	20.67	16.77	0.048	30.00	-13.23
	256-QAM	3500.0	-3.90	1 / 1	17.72	13.82	0.024	30.00	-16.18
	π/2 BPSK	3485.0	-3.90	1 / 90	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 187	22.49	18.59	0.072	30.00	-11.41
		3515.0	-3.90	1 / 187	22.59	18.69	0.074	30.00	-11.31
60 MHz	QPSK	3485.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	22.64	18.74	0.075	30.00	-11.26
		3515.0	-3.90	1 / 162	22.62	18.72	0.074	30.00	-11.28
	16-QAM	3480.0	-3.90	1 / 162	21.67	17.77	0.060	30.00	-12.23
	64-QAM	3520.0	-3.90	1 / 81	20.73	16.83	0.048	30.00	-13.17
	256-QAM	3520.0	-3.90	1 / 1	17.75	13.85	0.024	30.00	-16.15
	π/2 BPSK	3485.0	-3.90	1 / 90	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 187	22.49	18.59	0.072	30.00	-11.41
		3515.0	-3.90	1 / 187	22.59	18.69	0.074	30.00	-11.31
	QPSK	3485.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	22.64	18.74	0.075	30.00	-11.26
		3515.0	-3.90	1 / 90	22.62	18.72	0.074	30.00	-11.28
70 MHz	16-QAM	3515.0	-3.90	1 / 90	21.70	17.80	0.060	30.00	-12.20
	64-QAM	3515.0	-3.90	1 / 90	20.72	16.82	0.048	30.00	-13.18
	256-QAM	3485.0	-3.90	1 / 187	17.87	13.97	0.025	30.00	-16.03
	π/2 BPSK	3490.0	-3.90	1 / 214	22.68	18.78	0.076	30.00	-11.22
		3500.0	-3.90	1 / 214	22.69	18.79	0.076	30.00	-11.21
		3510.0	-3.90	1 / 1	22.63	18.73	0.075	30.00	-11.27
	QPSK	3490.0	-3.90	1 / 214	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	22.61	18.71	0.074	30.00	-11.29
		3510.0	-3.90	1 / 108	22.33	18.43	0.070	30.00	-11.57
	16-QAM	3490.0	-3.90	1 / 108	21.71	17.81	0.060	30.00	-12.19
	64-QAM	3510.0	-3.90	1 / 214	20.60	16.70	0.047	30.00	-13.30
	256-QAM	3500.0	-3.90	1 / 214	17.64	13.74	0.024	30.00	-16.26
80 MHz	π/2 BPSK	3495.0	-3.90	1 / 238	22.65	18.75	0.075	30.00	-11.25
		3500.0	-3.90	1 / 120	22.68	18.78	0.076	30.00	-11.22
		3505.0	-3.90	1 / 238	22.68	18.78	0.076	30.00	-11.22
	QPSK	3495.0	-3.90	1 / 120	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	22.58	18.68	0.074	30.00	-11.32
		3505.0	-3.90	1 / 120	22.65	18.75	0.075	30.00	-11.25
	16-QAM	3495.0	-3.90	1 / 1	21.75	17.85	0.061	30.00	-12.15
	64-QAM	3505.0	-3.90	1 / 120	20.77	16.87	0.049	30.00	-13.13
	256-QAM	3505.0	-3.90	1 / 120	17.83	13.93	0.025	30.00	-16.07
	π/2 BPSK	3500.0	-3.90	1 / 268	22.68	18.78	0.076	30.00	-11.22
		3505.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3500.0	-3.90	1 / 1	21.70	17.80	0.060	30.00	-12.20
100 MHz	16-QAM	3500.0	-3.90	1 / 268	20.70	16.80	0.048	30.00	-13.20
	64-QAM	3500.0	-3.90	1 / 135	17.80	13.90	0.025	30.00	-16.10

Table 7-15. Antenna 2b EIRP Data (NR Band n77 (PC3) – DoD Band)

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	-3.90	1 / 25	22.58	18.68	0.074	30.00	-11.32
		3840.0	-3.90	1 / 48	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3970.0	-3.90	1 / 25	22.53	18.63	0.073	30.00	-11.37
	QPSK	3710.0	-3.90	1 / 1	22.53	18.63	0.073	30.00	-11.37
		3840.0	-3.90	1 / 1	22.60	18.70	0.074	30.00	-11.30
		3970.0	-3.90	1 / 48	22.64	18.74	0.075	30.00	-11.26
	16-QAM	3710.0	-3.90	1 / 48	21.68	17.78	0.060	30.00	-12.22
	64-QAM	3710.0	-3.90	1 / 25	20.71	16.81	0.048	30.00	-13.19
	256-QAM	3710.0	-3.90	1 / 1	17.62	13.72	0.024	30.00	-16.28
	π/2 BPSK	3715.0	-3.90	1 / 1	22.50	18.60	0.072	30.00	-11.40
30 MHz	π/2 BPSK	3840.0	-3.90	1 / 39	22.54	18.64	0.073	30.00	-11.36
	3965.0	-3.90	1 / 39	22.48	18.58	0.072	30.00	-11.42	
	QPSK	3715.0	-3.90	1 / 39	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 1	22.58	18.68	0.074	30.00	-11.32
		3965.0	-3.90	1 / 76	22.68	18.78	0.076	30.00	-11.22
	16-QAM	3965.0	-3.90	1 / 39	21.72	17.82	0.061	30.00	-12.18
	64-QAM	3840.0	-3.90	1 / 76	20.72	16.82	0.048	30.00	-13.18
	256-QAM	3965.0	-3.90	1 / 1	17.82	13.92	0.025	30.00	-16.08
	π/2 BPSK	3720.0	-3.90	1 / 1	22.67	18.77	0.075	30.00	-11.23
	3840.0	-3.90	1 / 50	22.66	18.76	0.075	30.00	-11.24	
40 MHz	3960.0	-3.90	1 / 1	22.67	18.77	0.075	30.00	-11.23	
	QPSK	3720.0	-3.90	1 / 50	22.62	18.72	0.074	30.00	-11.28
		3840.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3960.0	-3.90	1 / 50	22.42	18.52	0.071	30.00	-11.48
	16-QAM	3840.0	-3.90	1 / 1	21.71	17.81	0.060	30.00	-12.19
	64-QAM	3840.0	-3.90	1 / 50	20.67	16.77	0.048	30.00	-13.23
	256-QAM	3960.0	-3.90	1 / 1	17.81	13.91	0.025	30.00	-16.09
	π/2 BPSK	3725.0	-3.90	1 / 64	22.62	18.72	0.074	30.00	-11.28
	3840.0	-3.90	1 / 126	22.45	18.55	0.072	30.00	-11.45	
	3955.0	-3.90	1 / 126	22.55	18.65	0.073	30.00	-11.35	
50 MHz	QPSK	3725.0	-3.90	1 / 126	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 64	22.58	18.68	0.074	30.00	-11.32
		3955.0	-3.90	1 / 126	22.56	18.66	0.073	30.00	-11.34
	16-QAM	3725.0	-3.90	1 / 126	21.68	17.78	0.060	30.00	-12.22
	64-QAM	3955.0	-3.90	1 / 126	20.70	16.80	0.048	30.00	-13.20
	256-QAM	3955.0	-3.90	1 / 1	17.80	13.90	0.025	30.00	-16.10
	π/2 BPSK	3730.0	-3.90	1 / 1	22.64	18.74	0.075	30.00	-11.26
	3840.0	-3.90	1 / 81	22.69	18.79	0.076	30.00	-11.21	
	3950.0	-3.90	1 / 81	22.70	<b>18.80</b>	0.076	30.00	-11.20	
	QPSK	3730.0	-3.90	1 / 162	22.41	18.51	0.071	30.00	-11.49
		3840.0	-3.90	1 / 1	22.58	18.68	0.074	30.00	-11.32
		3950.0	-3.90	1 / 81	22.64	18.74	0.075	30.00	-11.26
60 MHz	16-QAM	3730.0	-3.90	1 / 162	21.67	17.77	0.060	30.00	-12.23
	64-QAM	3730.0	-3.90	1 / 81	20.65	16.75	0.047	30.00	-13.25
	256-QAM	3950.0	-3.90	1 / 81	17.77	13.87	0.024	30.00	-16.13
	π/2 BPSK	3735.0	-3.90	1 / 1	22.50	18.60	0.072	30.00	-11.40
	3840.0	-3.90	1 / 90	22.54	18.64	0.073	30.00	-11.36	
	3945.0	-3.90	1 / 187	22.70	<b>18.80</b>	0.076	30.00	-11.20	
	QPSK	3735.0	-3.90	1 / 187	22.41	18.51	0.071	30.00	-11.49
		3840.0	-3.90	1 / 1	22.55	18.65	0.073	30.00	-11.35
		3945.0	-3.90	1 / 187	22.40	18.50	0.071	30.00	-11.50
	16-QAM	3735.0	-3.90	1 / 1	21.72	17.82	0.061	30.00	-12.18
	64-QAM	3840.0	-3.90	1 / 1	20.62	16.72	0.047	30.00	-13.28
70 MHz	256-QAM	3840.0	-3.90	1 / 90	17.76	13.86	0.024	30.00	-16.14
	π/2 BPSK	3740.0	-3.90	1 / 1	22.61	18.71	0.074	30.00	-11.29
	3840.0	-3.90	1 / 214	22.50	18.60	0.072	30.00	-11.40	
	3940.0	-3.90	1 / 214	22.67	18.77	0.075	30.00	-11.23	
	QPSK	3740.0	-3.90	1 / 214	22.51	18.61	0.073	30.00	-11.39
		3840.0	-3.90	1 / 1	22.78	18.68	0.074	30.00	-11.32
		3940.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3740.0	-3.90	1 / 108	21.63	17.73	0.059	30.00	-12.27
	64-QAM	3740.0	-3.90	1 / 108	20.71	16.81	0.048	30.00	-13.19
	256-QAM	3840.0	-3.90	1 / 214	17.78	13.88	0.024	30.00	-16.12
80 MHz	π/2 BPSK	3745.0	-3.90	1 / 238	22.59	18.69	0.074	30.00	-11.31
	3840.0	-3.90	1 / 1	22.45	18.55	0.072	30.00	-11.45	
	3940.0	-3.90	1 / 214	22.67	18.77	0.075	30.00	-11.23	
	QPSK	3745.0	-3.90	1 / 238	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 1	22.55	18.65	0.073	30.00	-11.35
		3945.0	-3.90	1 / 120	22.67	18.77	0.075	30.00	-11.23
	16-QAM	3945.0	-3.90	1 / 1	21.65	17.75	0.060	30.00	-12.25
	64-QAM	3745.0	-3.90	1 / 1	20.64	16.74	0.047	30.00	-13.26
	256-QAM	3935.0	-3.90	1 / 120	17.80	13.90	0.025	30.00	-16.10
90 MHz	π/2 BPSK	3750.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
	3840.0	-3.90	1 / 268	22.58	18.68	0.074	30.00	-11.32	
	3930.0	-3.90	1 / 268	22.69	18.79	0.076	30.00	-11.21	
	QPSK	3750.0	-3.90	1 / 268	22.67	18.77	0.075	30.00	-11.23
		3840.0	-3.90	1 / 268	22.69	18.79	0.076	30.00	-11.21
		3930.0	-3.90	1 / 268	22.38	18.48	0.070	30.00	-11.52
	16-QAM	3840.0	-3.90	1 / 268	21.65	17.75	0.060	30.00	-12.25
	64-QAM	3930.0	-3.90	1 / 268	20.71	16.81	0.048	30.00	-13.19
	256-QAM	3840.0	-3.90	1 / 1	17.81	13.91	0.025	30.00	-16.09
100 MHz	π/2 BPSK	3750.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
	3840.0	-3.90	1 / 268	22.58	18.68	0.074	30.00	-11.32	
	3930.0	-3.90	1 / 268	22.69	18.79	0.076	30.00	-11.21	
	QPSK	3750.0	-3.90	1 / 268	22.67	18.77	0.075	30.00	-11.23
		3840.0	-3.90	1 / 268	22.69	18.79	0.076	30.00	-11.21
		3930.0	-3.90	1 / 268	22.38	18.48	0.070	30.00	-11.52
	16-QAM	3840.0	-3.90	1 / 268	21.65	17.75	0.060	30.00	-12.25
	64-QAM	3930.0	-3.90	1 / 268	20.71	16.81	0.048	30.00	-13.19
	256-QAM	3840.0	-3.90	1 / 1	17.81	13.91	0.025	30.00	-16.09

Table 7-16. Antenna 2b EIRP Data (NR Band n77 (PC2) – C Band)

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						Page 156 of 174
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EiRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	3710.0	-3.90	1 / 25	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 25	22.67	18.77	0.075	30.00	-11.23
		3970.0	-3.90	1 / 25	22.48	18.58	0.072	30.00	-11.42
	QPSK	3710.0	-3.90	1 / 48	22.59	18.69	0.074	30.00	-11.31
		3840.0	-3.90	1 / 25	22.56	18.66	0.073	30.00	-11.34
		3970.0	-3.90	1 / 1	22.46	18.56	0.072	30.00	-11.44
	16-QAM	3710.0	-3.90	1 / 1	21.77	17.87	0.061	30.00	-12.13
		3710.0	-3.90	1 / 1	20.60	16.70	0.047	30.00	-13.30
		3840.0	-3.90	1 / 25	17.90	14.00	0.025	30.00	-16.00
	256-QAM	3715.0	-3.90	1 / 39	22.57	18.67	0.074	30.00	-11.33
		3840.0	-3.90	1 / 76	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3965.0	-3.90	1 / 39	22.56	18.66	0.073	30.00	-11.34
30 MHz	QPSK	3715.0	-3.90	1 / 76	22.69	18.79	0.076	30.00	-11.21
		3840.0	-3.90	1 / 1	22.63	18.73	0.075	30.00	-11.27
		3965.0	-3.90	1 / 39	22.55	18.65	0.073	30.00	-11.35
	16-QAM	3840.0	-3.90	1 / 76	21.74	17.84	0.061	30.00	-12.16
		3840.0	-3.90	1 / 76	20.69	16.79	0.048	30.00	-13.21
		3965.0	-3.90	1 / 1	17.89	13.99	0.025	30.00	-16.01
	π/2 BPSK	3720.0	-3.90	1 / 98	22.47	18.57	0.072	30.00	-11.43
		3840.0	-3.90	1 / 98	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3960.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
40 MHz	QPSK	3720.0	-3.90	1 / 98	22.65	18.75	0.075	30.00	-11.25
		3840.0	-3.90	1 / 50	22.47	18.57	0.072	30.00	-11.43
		3960.0	-3.90	1 / 50	22.64	18.74	0.075	30.00	-11.26
	16-QAM	3960.0	-3.90	1 / 1	21.74	17.84	0.061	30.00	-12.16
		3840.0	-3.90	1 / 1	20.67	16.77	0.048	30.00	-13.23
		3720.0	-3.90	1 / 98	17.69	13.79	0.024	30.00	-16.21
	π/2 BPSK	3725.0	-3.90	1 / 126	22.54	18.64	0.073	30.00	-11.36
		3840.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3955.0	-3.90	1 / 1	22.63	18.73	0.075	30.00	-11.27
50 MHz	QPSK	3725.0	-3.90	1 / 1	22.39	18.49	0.071	30.00	-11.51
		3840.0	-3.90	1 / 64	22.58	18.68	0.074	30.00	-11.32
		3955.0	-3.90	1 / 1	22.17	18.27	0.067	30.00	-11.73
	16-QAM	3955.0	-3.90	1 / 126	21.59	17.69	0.059	30.00	-12.31
		3840.0	-3.90	1 / 1	20.66	16.76	0.047	30.00	-13.24
		3720.0	-3.90	1 / 64	17.88	13.98	0.025	30.00	-16.02
	π/2 BPSK	3730.0	-3.90	1 / 81	22.47	18.57	0.072	30.00	-11.43
		3840.0	-3.90	1 / 162	22.68	18.78	0.076	30.00	-11.22
		3950.0	-3.90	1 / 1	22.58	18.68	0.074	30.00	-11.32
60 MHz	QPSK	3730.0	-3.90	1 / 81	22.64	18.74	0.075	30.00	-11.26
		3840.0	-3.90	1 / 162	22.57	18.67	0.074	30.00	-11.33
		3950.0	-3.90	1 / 81	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3730.0	-3.90	1 / 81	21.56	17.66	0.058	30.00	-12.34
		3950.0	-3.90	1 / 81	20.53	16.63	0.046	30.00	-13.37
		3950.0	-3.90	1 / 1	17.84	13.94	0.025	30.00	-16.00
	π/2 BPSK	3735.0	-3.90	1 / 187	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 1	22.58	18.68	0.074	30.00	-11.32
		3945.0	-3.90	1 / 187	22.70	<b>18.80</b>	0.076	30.00	-11.20
70 MHz	QPSK	3735.0	-3.90	1 / 90	22.66	18.76	0.075	30.00	-11.24
		3840.0	-3.90	1 / 1	22.23	18.33	0.068	30.00	-11.67
		3945.0	-3.90	1 / 187	22.47	18.57	0.072	30.00	-11.43
	16-QAM	3945.0	-3.90	1 / 1	21.77	17.87	0.061	30.00	-12.13
		3945.0	-3.90	1 / 90	20.80	16.90	0.049	30.00	-13.10
		3945.0	-3.90	1 / 187	17.87	13.97	0.025	30.00	-16.03
	π/2 BPSK	3740.0	-3.90	1 / 108	22.54	18.64	0.073	30.00	-11.36
		3840.0	-3.90	1 / 1	22.41	18.51	0.071	30.00	-11.49
		3940.0	-3.90	1 / 214	22.67	18.77	0.075	30.00	-11.23
80 MHz	QPSK	3740.0	-3.90	1 / 214	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 1	22.51	18.61	0.073	30.00	-11.39
		3940.0	-3.90	1 / 108	22.58	18.68	0.074	30.00	-11.32
	16-QAM	3740.0	-3.90	1 / 108	21.49	17.59	0.057	30.00	-12.41
		3940.0	-3.90	1 / 214	20.56	16.66	0.046	30.00	-13.34
		3940.0	-3.90	1 / 214	17.72	13.82	0.024	30.00	-16.18
	π/2 BPSK	3745.0	-3.90	1 / 120	22.28	18.38	0.069	30.00	-11.62
		3840.0	-3.90	1 / 238	22.69	18.79	0.076	30.00	-11.21
		3935.0	-3.90	1 / 120	22.56	18.66	0.073	30.00	-11.34
90 MHz	QPSK	3745.0	-3.90	1 / 238	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3840.0	-3.90	1 / 238	22.42	18.52	0.071	30.00	-11.48
		3935.0	-3.90	1 / 238	22.58	18.68	0.074	30.00	-11.32
	16-QAM	3935.0	-3.90	1 / 1	21.78	17.88	0.061	30.00	-12.12
		3745.0	-3.90	1 / 120	20.71	16.81	0.048	30.00	-13.19
		3745.0	-3.90	1 / 238	17.84	13.94	0.025	30.00	-16.06
	π/2 BPSK	3750.0	-3.90	1 / 268	22.51	18.61	0.073	30.00	-11.39
		3840.0	-3.90	1 / 268	22.45	18.55	0.072	30.00	-11.45
		3930.0	-3.90	1 / 268	22.60	18.70	0.074	30.00	-11.30
100 MHz	QPSK	3750.0	-3.90	1 / 1	22.69	18.79	0.076	30.00	-11.21
		3840.0	-3.90	1 / 135	22.70	<b>18.80</b>	0.076	30.00	-11.20
		3930.0	-3.90	1 / 1	22.70	<b>18.80</b>	0.076	30.00	-11.20
	16-QAM	3750.0	-3.90	1 / 268	21.73	17.83	0.061	30.00	-12.17
		3930.0	-3.90	1 / 135	20.78	16.88	0.049	30.00	-13.12
		3930.0	-3.90	1 / 268	17.86	13.96	0.025	30.00	-16.04

Table 7-17. Antenna 2b EIRP Data (NR Band n77 (PC3) – C Band)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					

V 2.1 12/15/2021

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## 7.7 Radiated Spurious Emissions Measurements

§2.1053, §27.53(l), §27.53(n)

### 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

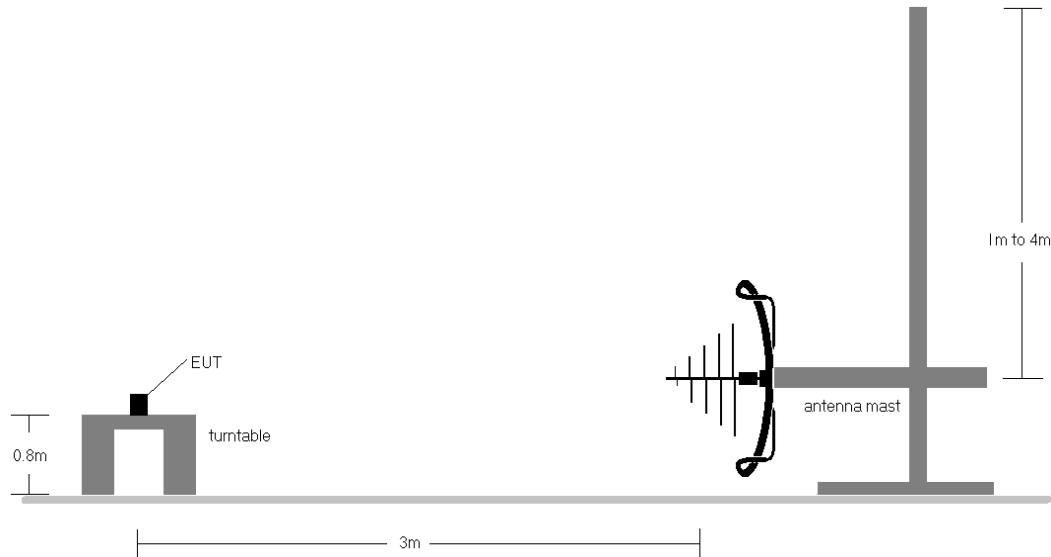
### Test Settings

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

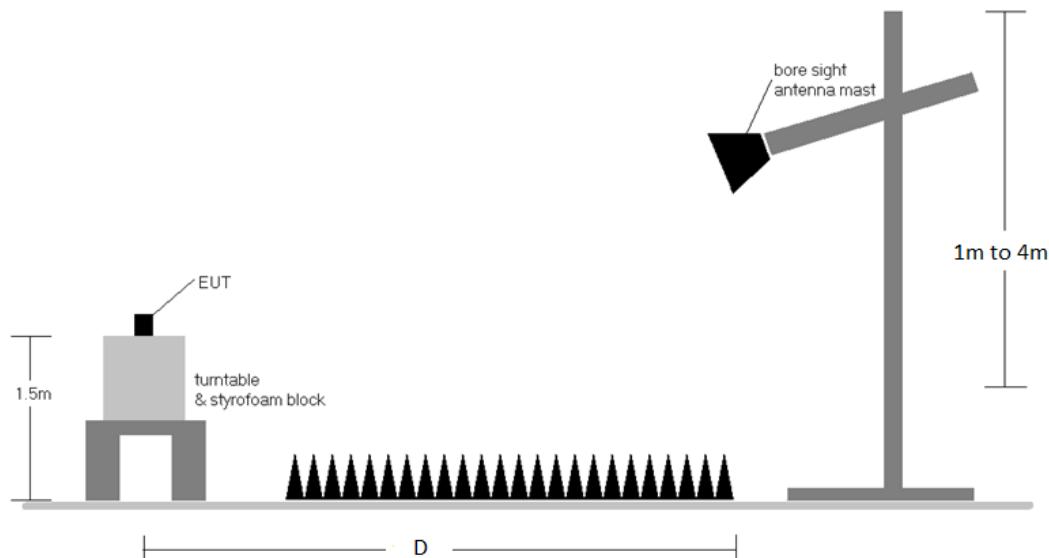
FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of 		<b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
Test Report S/N: 1C211150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 158 of 174

## Test Setup

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



**Figure 7-6. Test Instrument & Measurement Setup < 1GHz**



**Figure 7-7. 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 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.  $EIRP (\text{dBm}) = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; 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.
8. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.

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### 7.7.1 Antenna 3b Radiated Spurious Emission Measurements

#### NR Band n77 DoD Band

Bandwidth (MHz):	90								
Frequency (MHz):	3495.0								
RB / Offset:	1 / 238								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	V	261	180	-67.81	10.84	50.03	-45.23	-13.00	-32.23
10485.0	V	210	179	-80.31	14.38	41.07	-54.18	-13.00	-41.18
13980.0	V	-	-	-83.89	17.81	40.92	-54.34	-13.00	-41.34
17475.0	V	-	-	-85.86	24.30	45.44	-49.82	-13.00	-36.82

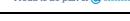
**Table 7-18. Antenna 3b Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)**

Bandwidth (MHz):	100								
Frequency (MHz):	3500.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	V	263	181	-68.10	10.91	49.81	-45.45	-13.00	-32.45
10500.0	V	218	177	-79.92	14.46	41.54	-53.72	-13.00	-40.72
14000.0	V	-	-	-83.76	17.63	40.87	-54.39	-13.00	-41.39
17500.0	V	-	-	-85.97	24.83	45.86	-49.40	-13.00	-36.40

**Table 7-19. Antenna 3b Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)**

Bandwidth (MHz):	90								
Frequency (MHz):	3505.0								
RB / Offset:	1 / 238								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	V	262	179	-68.39	11.01	49.62	-45.63	-13.00	-32.63
10515.0	V	218	177	-80.18	14.38	41.20	-54.06	-13.00	-41.06
14020.0	V	-	-	-83.66	17.91	41.25	-54.01	-13.00	-41.01
17525.0	V	-	-	-85.86	25.39	46.53	-48.73	-13.00	-35.73

**Table 7-20. Antenna 3b Radiated Spurious Data (NR Band n77 DoD Band – High Channel)**

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of 	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						

## NR Band n77 C Band

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	V	231	181	-64.90	10.68	52.78	-42.47	-13.00	-29.47
11250.0	V	287	45	-80.57	15.78	42.21	-53.05	-13.00	-40.05
15000.0	V	-	-	-85.27	20.26	41.99	-53.26	-13.00	-40.26

Table 7-21. Antenna 3b Radiated Spurious Data (NR Band n77 C Band – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	V	241	160	-68.16	10.80	49.64	-45.62	-13.00	-32.62
11520.0	V	324	296	-84.20	16.69	39.49	-55.77	-13.00	-42.77
15360.0	V	-	-	-85.96	21.57	42.61	-52.64	-13.00	-39.64

Table 7-22. Antenna 3b Radiated Spurious Data (NR Band n77 C Band – Mid Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	V	232	158	-70.29	11.59	48.30	-46.96	-13.00	-33.96
11790.0	V	160	254	-84.49	17.10	39.61	-55.65	-13.00	-42.65
15720.0	V	-	-	-86.34	22.79	43.45	-51.80	-13.00	-38.80

Table 7-23. Antenna 3b Radiated Spurious Data (NR Band n77 C Band – High Channel)

FCC ID: BCGA2589	 PCTEST <sup>®</sup> Proud to be part of element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device					

## 7.7.2 Antenna 1b Radiated Spurious Emission Measurements

### NR Band n77 DoD Band

Bandwidth (MHz):	90								
Frequency (MHz):	3495.0								
RB / Offset:	1 / 238								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	V	-	-	-81.61	10.84	36.23	-59.03	-13.00	-46.03
10485.0	V	-	-	-83.46	14.38	37.92	-57.33	-13.00	-44.33
13980.0	V	-	-	-83.77	17.81	41.04	-54.22	-13.00	-41.22

**Table 7-24. Antenna 1b Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)**

Bandwidth (MHz):	100								
Frequency (MHz):	3500.0								
RB / Offset:	1 / 268								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	V	-	-	-81.54	10.91	36.37	-58.89	-13.00	-45.89
10500.0	V	-	-	-83.91	14.46	37.55	-57.71	-13.00	-44.71
14000.0	V	-	-	-83.88	17.63	40.75	-54.51	-13.00	-41.51

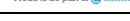
**Table 7-25. Antenna 1b Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)**

Bandwidth (MHz):	90								
Frequency (MHz):	3505.0								
RB / Offset:	1 / 238								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	V	-	-	-81.50	11.01	36.51	-58.74	-13.00	-45.74
10515.0	V	-	-	-83.93	14.38	37.45	-57.81	-13.00	-44.81
14020.0	V	-	-	-84.06	17.91	40.85	-54.41	-13.00	-41.41

**Table 7-26. Antenna 1b Radiated Spurious Data (NR Band n77 DoD Band – High Channel)**

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of 	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C211150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						

## NR Band n77 C Band

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	V	-	-	-81.03	10.68	36.65	-58.60	-13.00	-45.60
11250.0	V	-	-	-84.36	15.78	38.42	-56.84	-13.00	-43.84
15000.0	V	-	-	-85.20	20.26	42.06	-53.19	-13.00	-40.19

Table 7-27. Antenna 1b Radiated Spurious Data (NR Band n77 C Band – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	V	-	-	-81.42	10.80	36.38	-58.88	-13.00	-45.88
11520.0	V	-	-	-84.44	16.69	39.25	-56.01	-13.00	-43.01
15360.0	V	-	-	-85.74	21.57	42.83	-52.42	-13.00	-39.42

Table 7-28. Antenna 1b Radiated Spurious Data (NR Band n77 C Band – Mid Channel)

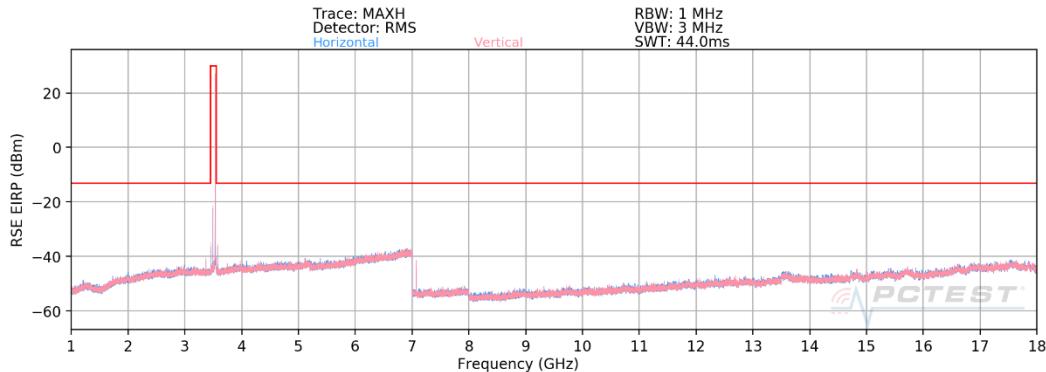
Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	V	-	-	-81.94	11.59	36.65	-58.61	-13.00	-45.61
11790.0	V	-	-	-84.61	17.10	39.49	-55.77	-13.00	-42.77
15720.0	V	-	-	-86.11	22.79	43.68	-51.57	-13.00	-38.57

Table 7-29. Antenna 1b Radiated Spurious Data (NR Band n77 C Band – High Channel)

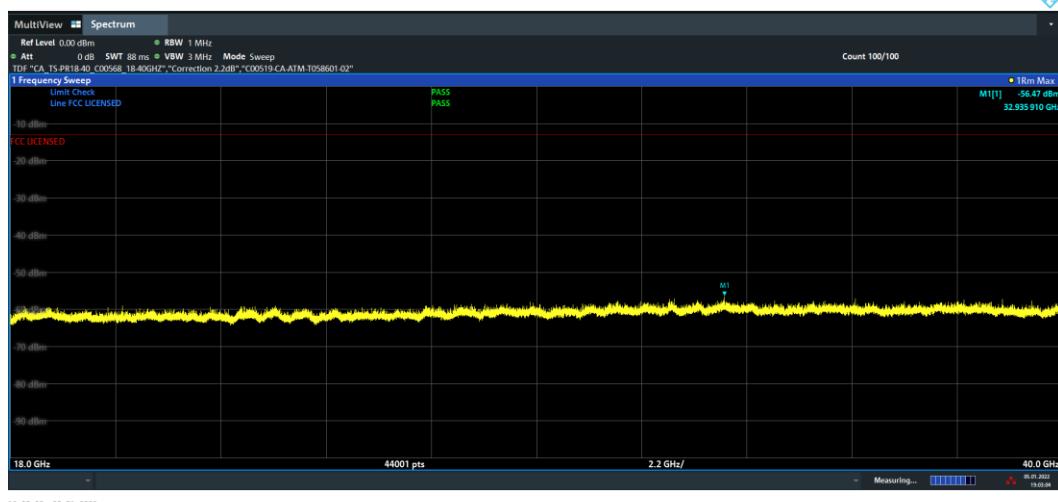
FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device				Page 164 of 174

### 7.7.3 Antenna 4 Radiated Spurious Emission Measurements

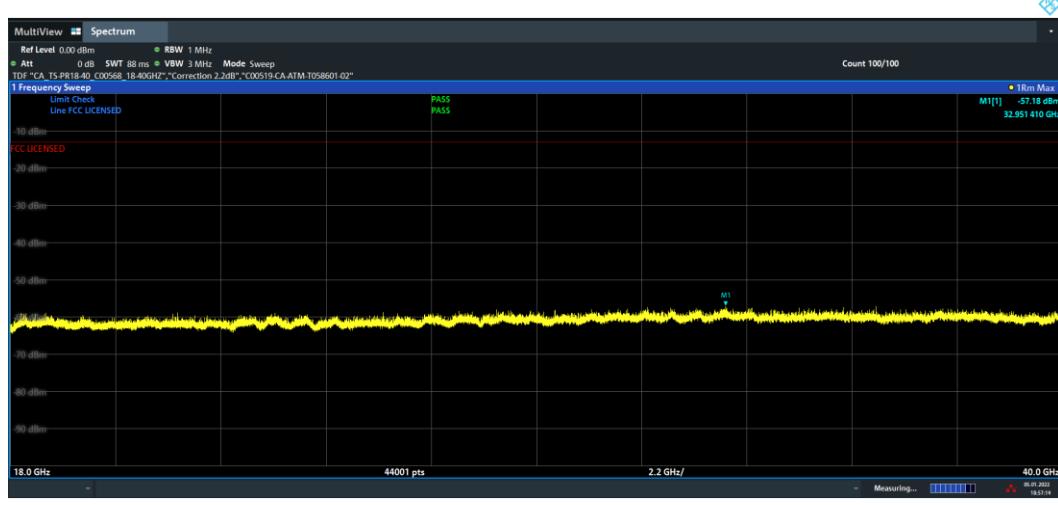
#### NR Band n77 DoD Band



Plot 7-235. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n77 DoD Band)



Plot 7-236. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n77 DoD Band, Pol. H)



Plot 7-237. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n77 DoD Band, Pol. V)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 165 of 174

Bandwidth (MHz):	90								
Frequency (MHz):	3495.0								
RB / Offset:	1 / 238								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	V	274	178	-68.88	10.84	48.96	-46.30	-13.00	-33.30
10485.0	V	245	110	-81.06	14.38	40.32	-54.93	-13.00	-41.93
13980.0	V	-	-	-83.97	17.81	40.84	-54.42	-13.00	-41.42
17475.0	V	-	-	-86.12	24.30	45.18	-50.08	-13.00	-37.08

**Table 7-30. Antenna 4 Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)**

Bandwidth (MHz):	100								
Frequency (MHz):	3500.0								
RB / Offset:	1 / 268								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	V	260	180	-68.06	10.91	49.85	-45.41	-13.00	-32.41
10500.0	V	249	108	-80.76	14.46	40.70	-54.56	-13.00	-41.56
14000.0	V	-	-	-83.99	17.63	40.64	-54.62	-13.00	-41.62
17500.0	V	-	-	-85.90	24.83	45.93	-49.33	-13.00	-36.33

**Table 7-31. Antenna 4 Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)**

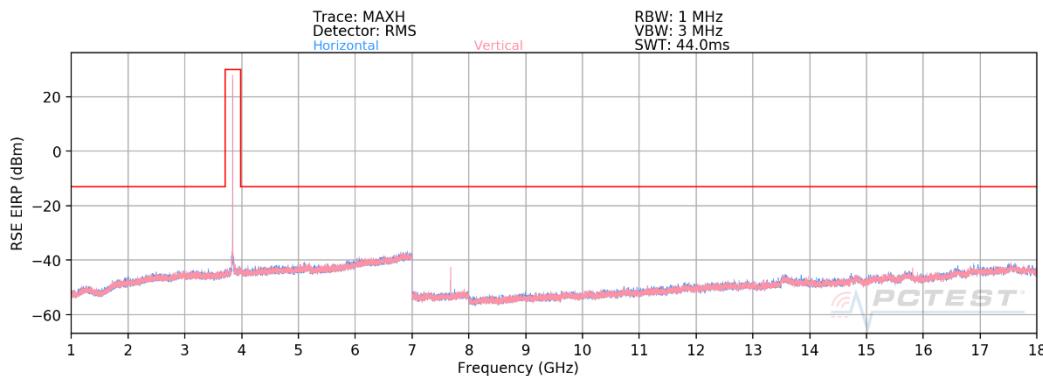
Bandwidth (MHz):	90								
Frequency (MHz):	3505.0								
RB / Offset:	1 / 238								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	V	268	182	-68.69	11.01	49.32	-45.93	-13.00	-32.93
10515.0	V	229	110	-81.64	14.38	39.74	-55.52	-13.00	-42.52
14020.0	V	-	-	-84.09	17.91	40.82	-54.44	-13.00	-41.44
17525.0	V	-	-	-85.78	25.39	46.61	-48.65	-13.00	-35.65

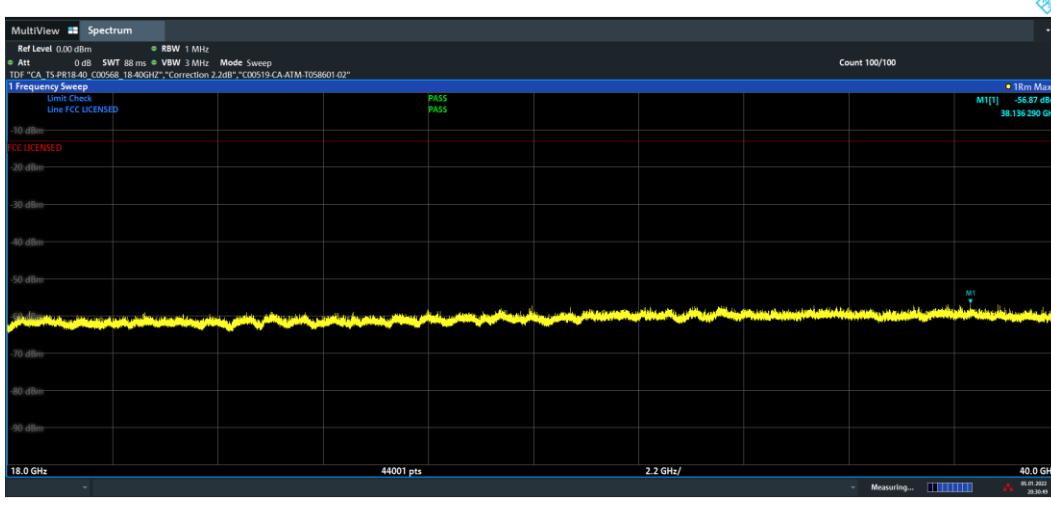
**Table 7-32. Antenna 4 Radiated Spurious Data (NR Band n77 DoD Band – High Channel)**

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element						PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						

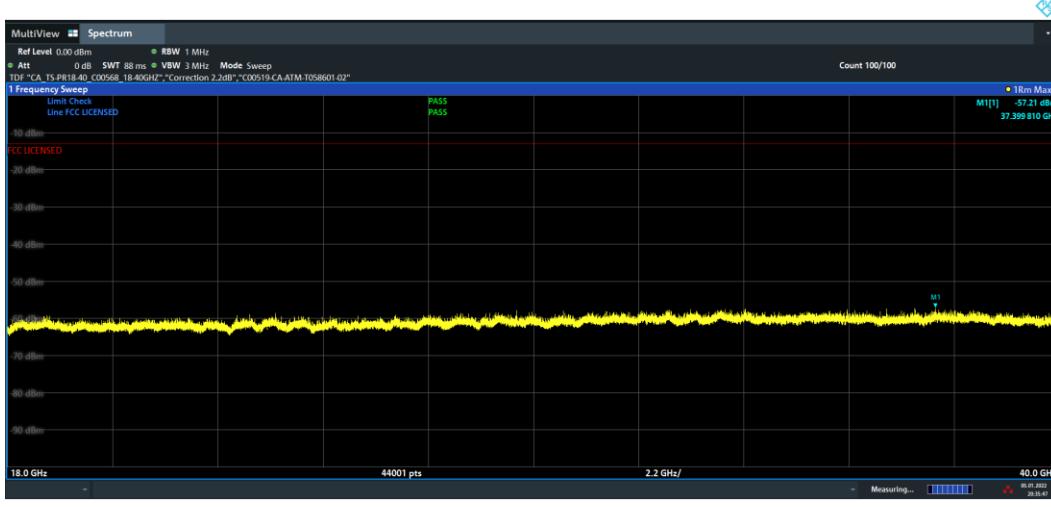
## NR Band n77 C Band



Plot 7-238. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n77 C Band)



Plot 7-239. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n77 C Band, Pol. H)



Plot 7-240. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n77 C Band, Pol. V)

FCC ID: BCGA2589	<b>PCTEST®</b> Proud to be part of  element		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 167 of 174

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 135								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	V	258	179	-65.01	10.68	52.67	-42.58	-13.00	-29.58
11250.0	V	288	44	-82.74	15.78	40.04	-55.22	-13.00	-42.22
15000.0	V	-	-	-85.46	20.26	41.80	-53.45	-13.00	-40.45

**Table 7-33. Antenna 4 Radiated Spurious Data (NR Band n77 C Band – Low Channel)**

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 135								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	V	237	160	-67.31	10.80	50.49	-44.77	-13.00	-31.77
11520.0	V	-	-	-84.55	16.69	39.14	-56.12	-13.00	-43.12
15360.0	V	-	-	-85.93	21.57	42.64	-52.61	-13.00	-39.61

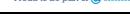
**Table 7-34. Antenna 4 Radiated Spurious Data (NR Band n77 C Band – Mid Channel)**

Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 135								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	V	238	155	-69.96	11.59	48.63	-46.63	-13.00	-33.63
11790.0	V	-	-	-84.84	17.10	39.26	-56.00	-13.00	-43.00
15720.0	V	-	-	-86.30	22.79	43.49	-51.76	-13.00	-38.76

**Table 7-35. Antenna 4 Radiated Spurious Data (NR Band n77 C Band – High Channel)**

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of 	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device						

## 7.7.4 Antenna 2b Radiated Spurious Emission Measurements

### NR Band n77 DoD Band

Bandwidth (MHz):	90	
Frequency (MHz):	3495.0	
RB / Offset:	1 / 238	

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	H	-	-	-81.32	10.84	36.52	-58.74	-13.00	-45.74
10485.0	H	-	-	-83.80	14.38	37.58	-57.67	-13.00	-44.67
13980.0	H	-	-	-83.20	17.81	41.61	-53.65	-13.00	-40.65

Table 7-36. Antenna 2b Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)

Bandwidth (MHz):	100	
Frequency (MHz):	3500.0	
RB / Offset:	1 / 268	

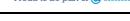
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	H	-	-	-81.69	10.91	36.22	-59.04	-13.00	-46.04
10500.0	H	-	-	-83.95	14.46	37.51	-57.75	-13.00	-44.75
14000.0	H	-	-	-83.26	17.63	41.37	-53.89	-13.00	-40.89

Table 7-37. Antenna 2b Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)

Bandwidth (MHz):	90	
Frequency (MHz):	3505.0	
RB / Offset:	1 / 238	

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	H	-	-	-81.37	11.01	36.64	-58.61	-13.00	-45.61
10515.0	H	-	-	-83.82	14.38	37.56	-57.70	-13.00	-44.70
14020.0	H	-	-	-83.38	17.91	41.53	-53.73	-13.00	-40.73

Table 7-38. Antenna 2b Radiated Spurious Data (NR Band n77 DoD Band – High Channel)

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of 	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
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## NR Band n77 C Band

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	H	-	-	-81.31	10.68	36.37	-58.88	-13.00	-45.88
11250.0	H	-	-	-84.25	15.78	38.53	-56.73	-13.00	-43.73
15000.0	H	-	-	-85.40	20.26	41.86	-53.39	-13.00	-40.39

Table 7-39. Antenna 2b Radiated Spurious Data (NR Band n77 C Band – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	H	-	-	-81.20	10.80	36.60	-58.66	-13.00	-45.66
11520.0	H	-	-	-84.52	16.69	39.17	-56.09	-13.00	-43.09
15360.0	H	-	-	-85.72	21.57	42.85	-52.40	-13.00	-39.40

Table 7-40. Antenna 2b Radiated Spurious Data (NR Band n77 C Band – Mid Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	H	-	-	-82.00	11.59	36.59	-58.67	-13.00	-45.67
11790.0	H	-	-	-84.81	17.10	39.29	-55.97	-13.00	-42.97
15720.0	H	-	-	-86.20	22.79	43.59	-51.66	-13.00	-38.66

Table 7-41. Antenna 2b Radiated Spurious Data (NR Band n77 C Band – High Channel)

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
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## 7.8 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:

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

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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

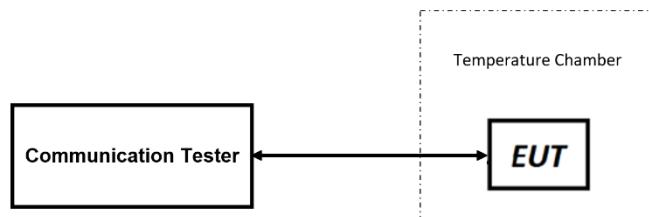


Figure 7-8. Test Instrument & Measurement Setup

### Test Notes

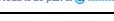
All port were tested and only the worst case data were reported.

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of  element		<b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
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## Frequency Stability / Temperature Variation

NR Band n77 (3450-3550MHz)							
		Low Channel Frequency (Hz):		3,495,000,000			
		High Channel Frequency (Hz):		3,505,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	3,494,126,051	3,505,161,720	-434,309	614,350	0.01753008
		- 20	3,494,121,740	3,504,962,510	-438,620	415,140	-0.01255151
		- 10	3,494,120,430	3,504,963,220	-439,930	415,850	-0.01258899
		0	3,494,103,900	3,504,962,780	-456,460	415,410	-0.01306202
		+ 10	3,494,133,350	3,505,000,300	-427,010	452,930	0.01292407
		+ 20 (Ref)	3,494,560,360	3,504,547,370	0	0	0.00000000
		+ 30	3,494,121,020	3,504,962,790	-439,340	415,420	-0.01257211
		+ 40	3,494,120,790	3,504,962,470	-439,570	415,100	-0.01257869
		+ 50	3,494,120,430	3,504,962,790	-439,930	415,420	-0.01258899
		Battery Endpoint	3.23	+ 20	3,494,120,720	3,504,094,740	-439,640
					-452,630	-452,630	-0.01291551

Table 7-42. NR Band n77 DoD Band Frequency Stability Data

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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## Frequency Stability / Temperature Variation

NR Band n77 (3700-3980MHz)							
		Low Channel Frequency (Hz):		3,750,000,000			
		High Channel Frequency (Hz):		3,930,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	3,749,178,920	3,930,896,890	-343,010	426,650	0.01085494
		- 20	3,749,091,110	3,930,894,700	-430,820	424,460	-0.01149000
		- 10	3,749,045,380	3,930,946,870	-476,550	476,630	0.01212654
		0	3,749,084,650	3,930,954,030	-437,280	483,790	0.01230871
		+ 10	3,749,042,830	3,930,947,400	-479,100	477,160	-0.01277763
		+ 20 (Ref)	3,749,521,930	3,930,470,240	0	0	0.00000000
		+ 30	3,749,043,480	3,930,946,580	-478,450	476,340	-0.01276029
		+ 40	3,749,043,360	3,930,946,970	-478,570	476,730	-0.01276349
		+ 50	3,749,043,490	3,930,946,550	-478,440	476,310	-0.01276003
Battery Endpoint	3.23	+ 20	3,749,043,860	3,930,940,480	-478,070	470,240	-0.01275016

Table 7-43. NR Band n77 C-Band Frequency Stability Data

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of  element			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2589** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of  element		<b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 174 of 174