


LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	0.80	1 / 12	25.32	26.12	0.409	33.01	-6.89
		2535.0	0.80	1 / 0	25.25	26.05	0.402	33.01	-6.96
		2567.5	0.80	1 / 0	25.18	25.98	0.396	33.01	-7.03
	16-QAM	2502.5	0.80	1 / 0	24.51	25.31	0.340	33.01	-7.70
	64-QAM	2502.5	0.80	1 / 0	23.80	24.60	0.288	33.01	-8.41
	256-QAM	2502.5	0.80	1 / 0	20.62	21.42	0.139	33.01	-11.59
10 MHz	QPSK	2505.0	0.80	1 / 0	25.21	26.01	0.399	33.01	-7.00
		2535.0	0.80	1 / 25	25.15	25.95	0.394	33.01	-7.06
		2565.0	0.80	1 / 0	25.20	26.00	0.399	33.01	-7.01
	16-QAM	2535.0	0.80	1 / 49	24.53	25.33	0.341	33.01	-7.68
	64-QAM	2565.0	0.80	1 / 0	23.60	24.40	0.276	33.01	-8.61
	256-QAM	2505.0	0.80	1 / 49	20.58	21.38	0.137	33.01	-11.63
15 MHz	QPSK	2507.5	0.80	1 / 0	25.28	26.08	0.406	33.01	-6.93
		2535.0	0.80	1 / 74	25.09	25.89	0.388	33.01	-7.12
		2562.5	0.80	1 / 0	25.15	25.95	0.393	33.01	-7.06
	16-QAM	2562.5	0.80	1 / 74	24.45	25.25	0.335	33.01	-7.76
	64-QAM	2535.0	0.80	1 / 0	23.68	24.48	0.280	33.01	-8.53
	256-QAM	2507.5	0.80	1 / 74	20.75	21.55	0.143	33.01	-11.46
20 MHz	QPSK	2510.0	0.80	1 / 99	25.10	25.90	0.389	33.01	-7.11
		2535.0	0.80	1 / 0	25.08	25.88	0.388	33.01	-7.13
		2560.0	0.80	1 / 99	25.14	25.94	0.393	33.01	-7.07
	16-QAM	2510.0	0.80	1 / 50	24.63	25.43	0.349	33.01	-7.58
	64-QAM	2535.0	0.80	1 / 99	23.48	24.28	0.268	33.01	-8.73
	256-QAM	2560.0	0.80	1 / 50	20.53	21.33	0.136	33.01	-11.68


Table 7-3. Antenna 4 EIRP Data (LTE Band 7)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 178 of 266

LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	0.50	1 / 0	27.00	27.50	0.562	33.01	-5.51
		2593.0	0.50	1 / 0	26.91	27.41	0.551	33.01	-5.60
		2687.5	0.50	1 / 12	26.65	27.15	0.519	33.01	-5.86
	16-QAM	2498.5	0.50	1 / 24	26.24	26.74	0.472	33.01	-6.27
	64-QAM	2593.0	0.50	1 / 12	26.05	26.55	0.452	33.01	-6.46
	256-QAM	2498.5	0.50	1 / 24	22.77	23.27	0.212	33.01	-9.74
10 MHz	QPSK	2501.0	0.50	1 / 49	27.08	27.58	0.573	33.01	-5.43
		2593.0	0.50	1 / 49	27.00	27.50	0.562	33.01	-5.51
		2685.0	0.50	1 / 25	26.78	27.28	0.535	33.01	-5.73
	16-QAM	2501.0	0.50	1 / 0	26.11	26.61	0.458	33.01	-6.40
	64-QAM	2501.0	0.50	1 / 49	25.46	25.96	0.394	33.01	-7.05
	256-QAM	2501.0	0.50	1 / 25	22.48	22.98	0.199	33.01	-10.03
15 MHz	QPSK	2503.5	0.50	1 / 37	27.08	27.58	0.573	33.01	-5.43
		2593.0	0.50	1 / 37	26.98	27.48	0.560	33.01	-5.53
		2682.5	0.50	1 / 74	26.75	27.25	0.531	33.01	-5.76
	16-QAM	2503.5	0.50	1 / 37	26.37	26.87	0.486	33.01	-6.14
	64-QAM	2503.5	0.50	1 / 37	25.68	26.18	0.415	33.01	-6.83
	256-QAM	2503.5	0.50	1 / 74	22.76	23.26	0.212	33.01	-9.75
20 MHz	QPSK	2506.0	0.50	1 / 50	26.94	27.44	0.555	33.01	-5.57
		2593.0	0.50	1 / 0	26.87	27.37	0.546	33.01	-5.64
		2680.0	0.50	1 / 99	26.79	27.29	0.536	33.01	-5.72
	16-QAM	2506.0	0.50	1 / 0	26.50	27.00	0.501	33.01	-6.01
	64-QAM	2506.0	0.50	1 / 50	25.27	25.77	0.378	33.01	-7.24
	256-QAM	2506.0	0.50	1 / 0	22.60	23.10	0.204	33.01	-9.91


Table 7-4. Antenna 4 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 179 of 266

LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	0.50	1 / 0	25.58	26.08	0.406	33.01	-6.93
		2593.0	0.50	1 / 12	25.48	25.98	0.396	33.01	-7.03
		2687.5	0.50	1 / 12	25.23	25.73	0.374	33.01	-7.28
	16-QAM	2498.5	0.50	1 / 12	24.82	25.32	0.340	33.01	-7.69
	64-QAM	2498.5	0.50	1 / 0	23.87	24.37	0.274	33.01	-8.64
	256-QAM	2498.5	0.50	1 / 0	20.92	21.42	0.139	33.01	-11.59
10 MHz	QPSK	2501.0	0.50	1 / 0	25.64	26.14	0.411	33.01	-6.87
		2593.0	0.50	1 / 0	25.53	26.03	0.401	33.01	-6.98
		2685.0	0.50	1 / 49	25.29	25.79	0.379	33.01	-7.22
	16-QAM	2501.0	0.50	1 / 0	24.90	25.40	0.347	33.01	-7.61
	64-QAM	2501.0	0.50	1 / 25	23.18	23.68	0.233	33.01	-9.33
	256-QAM	2501.0	0.50	1 / 25	20.39	20.89	0.123	33.01	-12.12
15 MHz	QPSK	2503.5	0.50	1 / 37	25.35	25.85	0.385	33.01	-7.16
		2593.0	0.50	1 / 37	25.27	25.77	0.378	33.01	-7.24
		2682.5	0.50	1 / 74	25.36	25.86	0.385	33.01	-7.15
	16-QAM	2682.5	0.50	1 / 74	24.15	24.65	0.292	33.01	-8.36
	64-QAM	2503.5	0.50	1 / 37	23.36	23.86	0.243	33.01	-9.15
	256-QAM	2503.5	0.50	1 / 74	20.92	21.42	0.139	33.01	-11.59
20 MHz	QPSK	2506.0	0.50	1 / 50	25.33	25.83	0.383	33.01	-7.18
		2593.0	0.50	1 / 0	25.30	25.80	0.380	33.01	-7.21
		2680.0	0.50	1 / 0	25.34	25.84	0.384	33.01	-7.17
	16-QAM	2506.0	0.50	1 / 50	24.53	25.03	0.318	33.01	-7.98
	64-QAM	2506.0	0.50	1 / 0	23.20	23.70	0.234	33.01	-9.31
	256-QAM	2506.0	0.50	1 / 0	20.63	21.13	0.130	33.01	-11.88


Table 7-5. Antenna 4 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 180 of 266

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	1.50	1 / 1	20.78	22.28	0.169	23.98	-1.70
		2310.0	1.50	1 / 23	20.73	22.23	0.167	23.98	-1.75
		2312.5	1.50	1 / 12	21.20	22.70	0.186	23.98	-1.28
	QPSK	2307.5	1.50	1 / 1	20.72	22.22	0.167	23.98	-1.76
		2310.0	1.50	1 / 12	21.04	22.54	0.180	23.98	-1.44
		2312.5	1.50	1 / 23	20.98	22.48	0.177	23.98	-1.50
	16-QAM	2312.5	1.50	1 / 23	19.99	21.49	0.141	23.98	-2.49
	64-QAM	2307.5	1.50	1 / 1	19.12	20.62	0.115	23.98	-3.36
	256-QAM	2312.5	1.50	1 / 12	17.09	18.59	0.072	23.98	-5.39
10 MHz	π/2 BPSK	2310.0	1.50	1 / 50	21.20	22.70	0.186	23.98	-1.28
	QPSK	2310.0	1.50	1 / 1	21.20	22.70	0.186	23.98	-1.28
	16-QAM	2310.0	1.50	1 / 50	20.25	21.75	0.150	23.98	-2.23
	64-QAM	2310.0	1.50	1 / 1	19.25	20.75	0.119	23.98	-3.23
	256-QAM	2310.0	1.50	1 / 50	17.51	19.01	0.080	23.98	-4.97


Table 7-6. Antenna 4 EIRP Data (NR Band n30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 181 of 266

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	0.80	1 / 24	25.03	25.83	0.383	33.01	-7.18
		2535.0	0.80	1 / 24	25.04	25.84	0.384	33.01	-7.17
		2567.5	0.80	1 / 12	24.91	25.71	0.373	33.01	-7.30
	QPSK	2502.5	0.80	1 / 24	25.06	25.86	0.385	33.01	-7.15
		2535.0	0.80	1 / 24	24.95	25.75	0.376	33.01	-7.26
		2567.5	0.80	1 / 12	24.98	25.78	0.378	33.01	-7.23
	16-QAM	2535.0	0.80	1 / 0	24.31	25.11	0.324	33.01	-7.90
	64-QAM	2567.5	0.80	1 / 24	23.03	23.83	0.242	33.01	-9.18
256-QAM	2502.5	0.80	1 / 0	21.00	21.80	0.151	33.01	-11.21	
10 MHz	π/2 BPSK	2505.0	0.80	1 / 0	25.24	26.04	0.402	33.01	-6.97
		2535.0	0.80	1 / 25	25.06	25.86	0.386	33.01	-7.15
		2565.0	0.80	1 / 0	25.08	25.88	0.388	33.01	-7.13
	QPSK	2505.0	0.80	1 / 25	25.22	26.02	0.400	33.01	-6.99
		2535.0	0.80	1 / 49	24.86	25.66	0.368	33.01	-7.35
		2565.0	0.80	1 / 25	24.74	25.54	0.358	33.01	-7.47
	16-QAM	2535.0	0.80	1 / 25	24.08	24.88	0.308	33.01	-8.13
	64-QAM	2505.0	0.80	1 / 25	22.99	23.79	0.239	33.01	-9.22
256-QAM	2505.0	0.80	1 / 0	20.53	21.33	0.136	33.01	-11.68	
15 MHz	π/2 BPSK	2507.5	0.80	1 / 74	25.03	25.83	0.383	33.01	-7.18
		2535.0	0.80	1 / 74	25.07	25.87	0.386	33.01	-7.14
		2562.5	0.80	1 / 74	25.06	25.86	0.385	33.01	-7.15
	QPSK	2507.5	0.80	1 / 37	25.05	25.85	0.384	33.01	-7.16
		2535.0	0.80	1 / 37	24.82	25.62	0.365	33.01	-7.39
		2562.5	0.80	1 / 37	25.10	25.90	0.389	33.01	-7.11
	16-QAM	2507.5	0.80	1 / 74	24.26	25.06	0.321	33.01	-7.95
	64-QAM	2562.5	0.80	1 / 37	22.70	23.50	0.224	33.01	-9.51
256-QAM	2507.5	0.80	1 / 74	21.02	21.82	0.152	33.01	-11.19	
20 MHz	π/2 BPSK	2510.0	0.80	1 / 99	25.02	25.82	0.382	33.01	-7.20
		2535.0	0.80	1 / 50	24.99	25.79	0.379	33.01	-7.22
		2560.0	0.80	1 / 0	24.97	25.77	0.378	33.01	-7.24
	QPSK	2510.0	0.80	1 / 99	24.89	25.69	0.371	33.01	-7.32
		2535.0	0.80	1 / 0	24.73	25.53	0.357	33.01	-7.48
		2560.0	0.80	1 / 0	24.85	25.65	0.367	33.01	-7.36
	16-QAM	2510.0	0.80	1 / 0	24.08	24.88	0.308	33.01	-8.13
	64-QAM	2510.0	0.80	1 / 50	22.96	23.76	0.238	33.01	-9.25
256-QAM	2510.0	0.80	1 / 99	20.79	21.59	0.144	33.01	-11.42	
25 MHz	π/2 BPSK	2512.5	0.80	1 / 50	25.32	26.12	0.409	33.01	-6.89
		2535.0	0.80	1 / 0	25.18	25.98	0.396	33.01	-7.03
		2557.5	0.80	1 / 0	24.98	25.78	0.378	33.01	-7.23
	QPSK	2512.5	0.80	1 / 0	25.11	25.91	0.390	33.01	-7.10
		2535.0	0.80	1 / 50	25.15	25.95	0.394	33.01	-7.06
		2557.5	0.80	1 / 99	24.90	25.70	0.371	33.01	-7.31
	16-QAM	2512.5	0.80	1 / 0	24.41	25.21	0.332	33.01	-7.80
	64-QAM	2512.5	0.80	1 / 99	22.76	23.56	0.227	33.01	-9.45
256-QAM	2535.0	0.80	1 / 0	20.95	21.75	0.150	33.01	-11.26	
30 MHz	π/2 BPSK	2515.0	0.80	1 / 99	25.26	26.06	0.404	33.01	-6.95
		2535.0	0.80	1 / 50	25.40	26.20	0.417	33.01	-6.81
		2555.0	0.80	1 / 0	25.00	25.80	0.380	33.01	-7.21
	QPSK	2515.0	0.80	1 / 0	25.16	25.96	0.394	33.01	-7.05
		2535.0	0.80	1 / 50	25.19	25.99	0.397	33.01	-7.02
		2555.0	0.80	1 / 50	25.17	25.97	0.395	33.01	-7.04
	16-QAM	2515.0	0.80	1 / 0	24.44	25.24	0.334	33.01	-7.77
	64-QAM	2515.0	0.80	1 / 99	22.84	23.64	0.231	33.01	-9.37
256-QAM	2515.0	0.80	1 / 0	20.82	21.62	0.145	33.01	-11.39	
40 MHz	π/2 BPSK	2520.0	0.80	1 / 0	25.35	26.15	0.412	33.01	-6.86
		2535.0	0.80	1 / 50	25.27	26.07	0.405	33.01	-6.94
		2550.0	0.80	1 / 50	25.01	25.81	0.381	33.01	-7.21
	QPSK	2520.0	0.80	1 / 0	25.11	25.91	0.390	33.01	-7.10
		2535.0	0.80	1 / 50	25.01	25.81	0.381	33.01	-7.20
		2550.0	0.80	1 / 0	25.24	26.04	0.401	33.01	-6.98
	16-QAM	2520.0	0.80	1 / 0	24.48	25.28	0.337	33.01	-7.73
	64-QAM	2520.0	0.80	1 / 0	22.88	23.68	0.233	33.01	-9.33
256-QAM	2520.0	0.80	1 / 0	21.03	21.83	0.152	33.01	-11.18	


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

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device		Page 182 of 266

NR Band n41 (PC2)

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	2510.0	0.50	1 / 25	24.28	24.78	0.301	33.01	-8.23
		2593.0	0.50	1 / 25	24.31	24.81	0.303	33.01	-8.20
		2680.0	0.50	1 / 1	24.40	24.90	0.309	33.01	-8.11
	QPSK	2510.0	0.50	1 / 25	24.38	24.88	0.308	33.01	-8.13
		2593.0	0.50	1 / 1	24.26	24.76	0.299	33.01	-8.25
		2680.0	0.50	1 / 25	24.31	24.81	0.303	33.01	-8.20
	16-QAM	2510.0	0.50	1 / 25	23.60	24.10	0.257	33.01	-8.91
	64-QAM	2510.0	0.50	1 / 49	22.13	22.63	0.183	33.01	-10.38
	256-QAM	2510.0	0.50	1 / 49	19.90	20.40	0.110	33.01	-12.61
	30 MHz	π/2 BPSK	2515.0	0.50	1 / 39	24.36	24.86	0.306	33.01
2593.0			0.50	1 / 1	24.40	24.90	0.309	33.01	-8.11
2675.0			0.50	1 / 76	24.37	24.87	0.307	33.01	-8.14
QPSK		2515.0	0.50	1 / 76	24.13	24.63	0.290	33.01	-8.38
		2593.0	0.50	1 / 1	24.25	24.75	0.298	33.01	-8.26
		2675.0	0.50	1 / 39	24.27	24.77	0.300	33.01	-8.24
16-QAM		2515.0	0.50	1 / 76	23.54	24.04	0.254	33.01	-8.97
64-QAM		2675.0	0.50	1 / 1	21.96	22.46	0.176	33.01	-10.55
256-QAM		2593.0	0.50	1 / 76	19.82	20.32	0.108	33.01	-12.69
40 MHz		π/2 BPSK	2520.0	0.50	1 / 53	24.36	24.86	0.306	33.01
	2593.0		0.50	1 / 104	24.33	24.83	0.304	33.01	-8.18
	2670.0		0.50	1 / 104	24.40	24.90	0.309	33.01	-8.11
	QPSK	2520.0	0.50	1 / 104	24.26	24.76	0.299	33.01	-8.25
		2593.0	0.50	1 / 1	24.35	24.85	0.306	33.01	-8.16
		2670.0	0.50	1 / 104	24.30	24.80	0.302	33.01	-8.21
	16-QAM	2520.0	0.50	1 / 104	23.46	23.96	0.249	33.01	-9.05
	64-QAM	2520.0	0.50	1 / 104	22.22	22.72	0.187	33.01	-10.29
	256-QAM	2520.0	0.50	1 / 104	20.07	20.57	0.114	33.01	-12.44
	50 MHz	π/2 BPSK	2525.0	0.50	1 / 66	24.18	24.68	0.294	33.01
2593.0			0.50	1 / 66	24.40	24.90	0.309	33.01	-8.11
2665.0			0.50	1 / 1	24.24	24.74	0.298	33.01	-8.27
QPSK		2525.0	0.50	1 / 66	24.40	24.90	0.309	33.01	-8.11
		2593.0	0.50	1 / 66	24.25	24.75	0.299	33.01	-8.26
		2665.0	0.50	1 / 1	24.21	24.71	0.296	33.01	-8.30
16-QAM		2525.0	0.50	1 / 131	23.39	23.89	0.245	33.01	-9.12
64-QAM		2525.0	0.50	1 / 66	22.38	22.88	0.194	33.01	-10.13
256-QAM		2593.0	0.50	1 / 66	19.85	20.35	0.108	33.01	-12.66
60 MHz		π/2 BPSK	2530.0	0.50	1 / 160	24.23	24.73	0.297	33.01
	2593.0		0.50	1 / 81	24.22	24.72	0.296	33.01	-8.29
	2660.0		0.50	1 / 81	24.40	24.90	0.309	33.01	-8.11
	QPSK	2530.0	0.50	1 / 160	24.26	24.76	0.299	33.01	-8.25
		2593.0	0.50	1 / 160	24.34	24.84	0.305	33.01	-8.17
		2660.0	0.50	1 / 81	24.27	24.77	0.300	33.01	-8.24
	16-QAM	2530.0	0.50	1 / 160	23.45	23.95	0.248	33.01	-9.06
	64-QAM	2530.0	0.50	1 / 160	21.93	22.43	0.175	33.01	-10.58
	256-QAM	2530.0	0.50	1 / 160	20.01	20.51	0.112	33.01	-12.50
	80 MHz	π/2 BPSK	2540.0	0.50	1 / 215	24.19	24.69	0.294	33.01
2593.0			0.50	1 / 108	24.22	24.72	0.297	33.01	-8.29
2650.0			0.50	1 / 215	24.36	24.86	0.306	33.01	-8.15
QPSK		2540.0	0.50	1 / 108	24.26	24.76	0.299	33.01	-8.25
		2593.0	0.50	1 / 108	24.28	24.78	0.301	33.01	-8.23
		2650.0	0.50	1 / 1	24.25	24.75	0.299	33.01	-8.26
16-QAM		2540.0	0.50	1 / 215	23.50	24.00	0.251	33.01	-9.01
64-QAM		2593.0	0.50	1 / 215	22.07	22.57	0.181	33.01	-10.44
256-QAM		2540.0	0.50	1 / 215	19.99	20.49	0.112	33.01	-12.52
90 MHz		π/2 BPSK	2545.0	0.50	1 / 122	23.85	24.35	0.272	33.01
	2593.0		0.50	1 / 122	24.30	24.80	0.302	33.01	-8.21
	2645.0		0.50	1 / 243	24.40	24.90	0.309	33.01	-8.11
	QPSK	2545.0	0.50	1 / 122	24.40	24.90	0.309	33.01	-8.11
		2593.0	0.50	1 / 122	24.39	24.89	0.308	33.01	-8.12
		2645.0	0.50	1 / 1	24.23	24.73	0.297	33.01	-8.28
	16-QAM	2645.0	0.50	1 / 122	23.47	23.97	0.249	33.01	-9.04
	64-QAM	2645.0	0.50	1 / 1	22.15	22.65	0.184	33.01	-10.36
	256-QAM	2645.0	0.50	1 / 243	19.86	20.36	0.109	33.01	-12.65
	100 MHz	π/2 BPSK	2550.0	0.50	1 / 271	24.35	24.85	0.305	33.01
2593.0			0.50	1 / 136	24.40	24.90	0.309	33.01	-8.11
2640.0			0.50	1 / 1	24.35	24.85	0.306	33.01	-8.16
QPSK		2550.0	0.50	1 / 271	24.40	24.90	0.309	33.01	-8.11
		2593.0	0.50	1 / 136	24.24	24.74	0.298	33.01	-8.27
		2640.0	0.50	1 / 271	24.27	24.77	0.300	33.01	-8.24
16-QAM		2640.0	0.50	1 / 271	23.58	24.08	0.256	33.01	-8.93
64-QAM		2640.0	0.50	1 / 1	22.03	22.53	0.179	33.01	-10.48
256-QAM		2593.0	0.50	1 / 136	19.95	20.45	0.111	33.01	-12.56


Table 7-8. Antenna 4 EIRP Data (NR Band n41 (PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 183 of 266

NR Band n41 (PC3)

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	2510.0	0.50	1 / 25	24.16	24.66	0.292	33.01	-8.35
		2593.0	0.50	1 / 25	24.52	25.02	0.318	33.01	-7.99
		2680.0	0.50	1 / 1	24.50	25.00	0.316	33.01	-8.01
	QPSK	2510.0	0.50	1 / 25	24.29	24.79	0.301	33.01	-8.22
		2593.0	0.50	1 / 25	24.25	24.75	0.299	33.01	-8.26
		2680.0	0.50	1 / 1	24.43	24.93	0.311	33.01	-8.08
	16-QAM	2680.0	0.50	1 / 49	23.28	23.78	0.239	33.01	-9.23
	64-QAM	2593.0	0.50	1 / 1	22.25	22.75	0.188	33.01	-10.26
30 MHz	π/2 BPSK	2680.0	0.50	1 / 1	19.89	20.39	0.109	33.01	-12.62
		2515.0	0.50	1 / 76	24.69	25.19	0.330	33.01	-7.82
		2593.0	0.50	1 / 1	24.38	24.88	0.308	33.01	-8.13
	QPSK	2675.0	0.50	1 / 76	24.32	24.82	0.304	33.01	-8.19
		2515.0	0.50	1 / 76	24.37	24.87	0.307	33.01	-8.14
		2593.0	0.50	1 / 76	24.31	24.81	0.303	33.01	-8.20
	16-QAM	2675.0	0.50	1 / 76	24.70	25.20	0.331	33.01	-7.81
		2675.0	0.50	1 / 76	23.60	24.10	0.257	33.01	-8.91
40 MHz	π/2 BPSK	2593.0	0.50	1 / 39	22.46	22.96	0.198	33.01	-10.05
		2675.0	0.50	1 / 1	19.87	20.37	0.109	33.01	-12.64
		2520.0	0.50	1 / 53	24.43	24.93	0.311	33.01	-8.08
	QPSK	2593.0	0.50	1 / 53	24.67	25.17	0.329	33.01	-7.84
		2670.0	0.50	1 / 104	24.48	24.98	0.314	33.01	-8.03
		2520.0	0.50	1 / 53	24.42	24.92	0.310	33.01	-8.09
	16-QAM	2593.0	0.50	1 / 104	24.55	25.05	0.320	33.01	-7.96
		2670.0	0.50	1 / 1	24.35	24.85	0.306	33.01	-8.16
50 MHz	π/2 BPSK	2593.0	0.50	1 / 66	23.46	23.96	0.249	33.01	-9.05
		2670.0	0.50	1 / 104	22.33	22.83	0.192	33.01	-10.18
		2593.0	0.50	1 / 104	20.05	20.55	0.114	33.01	-12.46
	QPSK	2525.0	0.50	1 / 66	24.49	24.99	0.316	33.01	-8.02
		2593.0	0.50	1 / 66	24.28	24.78	0.301	33.01	-8.23
		2665.0	0.50	1 / 131	24.38	24.88	0.308	33.01	-8.13
	16-QAM	2525.0	0.50	1 / 131	24.54	25.04	0.319	33.01	-7.97
		2593.0	0.50	1 / 1	24.21	24.71	0.296	33.01	-8.30
60 MHz	π/2 BPSK	2665.0	0.50	1 / 131	24.37	24.87	0.307	33.01	-8.14
		2593.0	0.50	1 / 1	23.62	24.12	0.258	33.01	-8.89
		2593.0	0.50	1 / 66	22.21	22.71	0.187	33.01	-10.30
	QPSK	2593.0	0.50	1 / 66	19.84	20.34	0.108	33.01	-12.67
		2530.0	0.50	1 / 160	24.30	24.80	0.302	33.01	-8.21
		2593.0	0.50	1 / 81	24.50	25.00	0.316	33.01	-8.01
	16-QAM	2660.0	0.50	1 / 160	24.28	24.78	0.301	33.01	-8.23
		2530.0	0.50	1 / 160	24.07	24.57	0.286	33.01	-8.44
80 MHz	π/2 BPSK	2593.0	0.50	1 / 160	24.25	24.75	0.299	33.01	-8.26
		2660.0	0.50	1 / 160	24.57	25.07	0.321	33.01	-7.94
		2530.0	0.50	1 / 81	23.45	23.95	0.248	33.01	-9.06
	QPSK	2593.0	0.50	1 / 160	21.84	22.34	0.172	33.01	-10.67
		2530.0	0.50	1 / 160	19.96	20.46	0.111	33.01	-12.55
		2540.0	0.50	1 / 215	24.83	25.33	0.341	33.01	-7.68
	16-QAM	2593.0	0.50	1 / 215	24.65	25.15	0.327	33.01	-7.86
		2650.0	0.50	1 / 215	24.26	24.76	0.299	33.01	-8.25
90 MHz	π/2 BPSK	2540.0	0.50	1 / 215	24.48	24.98	0.315	33.01	-8.03
		2593.0	0.50	1 / 108	24.39	24.89	0.308	33.01	-8.12
		2650.0	0.50	1 / 215	24.33	24.83	0.304	33.01	-8.18
	QPSK	2593.0	0.50	1 / 215	23.44	23.94	0.248	33.01	-9.07
		2650.0	0.50	1 / 215	22.25	22.75	0.188	33.01	-10.26
		2593.0	0.50	1 / 215	19.94	20.44	0.111	33.01	-12.57
	16-QAM	2545.0	0.50	1 / 243	24.19	24.69	0.294	33.01	-8.32
		2593.0	0.50	1 / 122	24.21	24.71	0.296	33.01	-8.30
100 MHz	π/2 BPSK	2645.0	0.50	1 / 1	24.68	25.18	0.330	33.01	-7.83
		2545.0	0.50	1 / 243	24.51	25.01	0.317	33.01	-8.00
		2593.0	0.50	1 / 243	24.22	24.72	0.296	33.01	-8.29
	QPSK	2645.0	0.50	1 / 1	24.41	24.91	0.310	33.01	-8.10
		2545.0	0.50	1 / 243	23.32	23.82	0.241	33.01	-9.19
		2545.0	0.50	1 / 122	22.11	22.61	0.182	33.01	-10.40
	16-QAM	2545.0	0.50	1 / 243	19.94	20.44	0.111	33.01	-12.57
		2550.0	0.50	1 / 271	24.50	25.00	0.316	33.01	-8.01
100 MHz	π/2 BPSK	2593.0	0.50	1 / 136	24.70	25.20	0.331	33.01	-7.81
		2640.0	0.50	1 / 1	24.52	25.02	0.318	33.01	-7.99
		2550.0	0.50	1 / 271	24.37	24.87	0.307	33.01	-8.14
	QPSK	2593.0	0.50	1 / 136	24.35	24.85	0.305	33.01	-8.16
		2640.0	0.50	1 / 1	24.41	24.91	0.310	33.01	-8.10
		2640.0	0.50	1 / 1	23.67	24.17	0.261	33.01	-8.84
	16-QAM	2640.0	0.50	1 / 1	22.08	22.58	0.181	33.01	-10.43
		2593.0	0.50	1 / 136	19.69	20.19	0.104	33.01	-12.82

Table 7-9. Antenna 4 EIRP Data (NR Band n41 (PC3))

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 184 of 266

ULCA - Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset								
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.39	0.80	26.19	0.416	33.01	-6.82		
				21100	2535.0	1	99		21298	2554.8	1	0	25.59	0.80	26.39	0.436	33.01	-6.62		
				21350	0	2560.0	1		0	21552	0	2580.2	1	99	25.53	0.80	26.33	0.430	33.01	-6.68
				21100	2535	100	0		21298	2554.8	100	0	23.62	0.80	24.42	0.277	33.01	-8.59		
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	22.67	0.80	23.47	0.222	33.01	-9.54		
				64-QAM	21100	2535	100	0	64-QAM	21298	2554.8	100	0	22.69	0.80	23.49	0.223	33.01	-9.52	
				256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	20.73	0.80	21.53	0.142	33.01	-11.48	

Table 7-10. Antenna 4 EIRP Data (ULCA LTE Band 7)

ULCA - Band 41 (PC2)


Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset							
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	27.33	0.50	27.83	0.607	33.01	-5.18	
				40620	2593.0	1	99		40818	2612.8	1	0	27.48	0.50	27.98	0.628	33.01	-5.03	
				41490	2680.0	1	0		41292	2660.2	1	99	27.20	0.50	27.70	0.589	33.01	-5.31	
				40620	2593	100	0		40818	2612.8	100	0	25.77	0.50	26.27	0.424	33.01	-6.74	
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	24.78	0.50	25.28	0.337	33.01	-7.73	
				64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	24.57	0.50	25.07	0.321	33.01	-7.94
				256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	22.78	0.50	23.28	0.213	33.01	-9.73

Table 7-11. Antenna 4 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	25.51	0.50	26.01	0.399	33.01	-7.00
				40620	2593.0	1	99		40818	2612.8	1	0	25.54	0.50	26.04	0.402	33.01	-6.97
			QPSK	41490	2680.0	1	0	QPSK	41292	2660.2	1	99	25.52	0.50	26.02	0.400	33.01	-6.99
				40620	2593	100	0		40818	2612.8	100	0	23.81	0.50	24.31	0.270	33.01	-8.70
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.81	0.50	23.31	0.214	33.01	-9.70
				64-QAM	40620	2593	100		0	64-QAM	40818	2612.8	100	0	22.84	0.50	23.34	0.216
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	20.82	0.50	21.32	0.136	33.01	-11.69

Table 7-12. Antenna 4 EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2589	 <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 185 of 266

7.5.2 Antenna 2a – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.90	1 / 12	22.02	22.92	0.196	23.98	-1.06
		2310.0	0.90	1 / 24	22.10	23.00	0.200	23.98	-0.98
		2312.5	0.90	1 / 12	21.98	22.88	0.194	23.98	-1.10
	16-QAM	2310.0	0.90	1 / 24	21.51	22.41	0.174	23.98	-1.57
	64-QAM	2307.5	0.90	1 / 0	20.40	21.30	0.135	23.98	-2.68
	256-QAM	2312.5	0.90	1 / 24	17.43	18.33	0.068	23.98	-5.65
10 MHz	QPSK	2310.0	0.90	1 / 49	22.10	23.00	0.200	23.98	-0.98
	16-QAM	2310.0	0.90	1 / 49	21.56	22.46	0.176	23.98	-1.52
	64-QAM	2310.0	0.90	1 / 49	20.16	21.06	0.128	23.98	-2.92
	256-QAM	2310.0	0.90	1 / 25	17.51	18.41	0.069	23.98	-5.57


Table 7-13. Antenna 2a EIRP Data (LTE Band 30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 186 of 266

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	3.00	1 / 24	23.81	26.81	0.480	33.01	-6.20
		2535.0	3.00	1 / 24	23.68	26.68	0.465	33.01	-6.33
		2567.5	3.00	1 / 24	23.70	26.70	0.467	33.01	-6.31
	16-QAM	2567.5	3.00	1 / 0	23.12	26.12	0.409	33.01	-6.89
	64-QAM	2567.5	3.00	1 / 12	22.38	25.38	0.345	33.01	-7.63
	256-QAM	2567.5	3.00	1 / 24	19.12	22.12	0.163	33.01	-10.89
10 MHz	QPSK	2505.0	3.00	1 / 49	23.65	26.65	0.462	33.01	-6.36
		2535.0	3.00	1 / 49	23.80	26.80	0.479	33.01	-6.21
		2565.0	3.00	1 / 25	23.79	26.79	0.477	33.01	-6.22
	16-QAM	2565.0	3.00	1 / 49	23.12	26.12	0.410	33.01	-6.89
	64-QAM	2535.0	3.00	1 / 25	22.13	25.13	0.326	33.01	-7.88
	256-QAM	2505.0	3.00	1 / 0	19.17	22.17	0.165	33.01	-10.84
15 MHz	QPSK	2507.5	3.00	1 / 0	23.74	26.74	0.472	33.01	-6.27
		2535.0	3.00	1 / 74	23.72	26.72	0.469	33.01	-6.30
		2562.5	3.00	1 / 74	23.79	26.79	0.477	33.01	-6.22
	16-QAM	2562.5	3.00	1 / 37	23.22	26.22	0.419	33.01	-6.79
	64-QAM	2562.5	3.00	1 / 37	22.25	25.25	0.335	33.01	-7.76
	256-QAM	2507.5	3.00	1 / 0	19.30	22.30	0.170	33.01	-10.71
20 MHz	QPSK	2510.0	3.00	1 / 0	23.74	26.74	0.472	33.01	-6.27
		2535.0	3.00	1 / 0	23.77	26.77	0.476	33.01	-6.24
		2560.0	3.00	1 / 50	23.73	26.73	0.472	33.01	-6.28
	16-QAM	2510.0	3.00	1 / 0	23.31	26.31	0.427	33.01	-6.70
	64-QAM	2510.0	3.00	1 / 50	22.14	25.14	0.327	33.01	-7.87
	256-QAM	2560.0	3.00	1 / 99	19.12	22.12	0.163	33.01	-10.89


Table 7-14. Antenna 2a EIRP Data (LTE Band 7)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 187 of 266

LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	2.70	1 / 0	25.24	27.94	0.622	33.01	-5.07
		2593.0	2.70	1 / 0	25.22	27.92	0.619	33.01	-5.09
		2687.5	2.70	1 / 24	25.20	27.90	0.617	33.01	-5.11
	16-QAM	2498.5	2.70	1 / 12	24.14	26.84	0.483	33.01	-6.17
	64-QAM	2498.5	2.70	1 / 24	23.32	26.02	0.400	33.01	-6.99
	256-QAM	2498.5	2.70	1 / 12	21.02	23.72	0.236	33.01	-9.29
10 MHz	QPSK	2501.0	2.70	1 / 0	25.35	28.05	0.638	33.01	-4.96
		2593.0	2.70	1 / 0	25.27	27.97	0.627	33.01	-5.04
		2685.0	2.70	1 / 49	25.20	27.90	0.617	33.01	-5.11
	16-QAM	2501.0	2.70	1 / 0	24.36	27.06	0.508	33.01	-5.95
	64-QAM	2501.0	2.70	1 / 49	23.72	26.42	0.439	33.01	-6.59
	256-QAM	2501.0	2.70	1 / 0	20.75	23.45	0.221	33.01	-9.56
15 MHz	QPSK	2503.5	2.70	1 / 37	25.36	28.06	0.640	33.01	-4.95
		2593.0	2.70	1 / 37	25.30	28.00	0.631	33.01	-5.01
		2682.5	2.70	1 / 74	25.31	28.01	0.632	33.01	-5.00
	16-QAM	2503.5	2.70	1 / 37	24.63	27.33	0.541	33.01	-5.68
	64-QAM	2503.5	2.70	1 / 0	23.94	26.64	0.461	33.01	-6.37
	256-QAM	2503.5	2.70	1 / 37	21.04	23.74	0.237	33.01	-9.27
20 MHz	QPSK	2506.0	2.70	1 / 50	25.22	27.92	0.619	33.01	-5.09
		2593.0	2.70	1 / 0	25.34	28.04	0.637	33.01	-4.97
		2680.0	2.70	1 / 0	25.23	27.93	0.621	33.01	-5.08
	16-QAM	2506.0	2.70	1 / 0	24.79	27.49	0.561	33.01	-5.52
	64-QAM	2506.0	2.70	1 / 0	23.53	26.23	0.420	33.01	-6.78
	256-QAM	2506.0	2.70	1 / 0	20.90	23.60	0.229	33.01	-9.41


Table 7-15. Antenna 2a EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 188 of 266

LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	2.70	1 / 0	25.59	28.29	0.675	33.01	-4.72
		2593.0	2.70	1 / 0	25.54	28.24	0.667	33.01	-4.77
		2687.5	2.70	1 / 0	25.61	28.31	0.678	33.01	-4.70
	16-QAM	2593.0	2.70	1 / 0	24.62	27.32	0.540	33.01	-5.69
	64-QAM	2593.0	2.70	1 / 0	24.60	27.30	0.537	33.01	-5.71
	256-QAM	2498.5	2.70	1 / 24	20.97	23.67	0.233	33.01	-9.34
10 MHz	QPSK	2501.0	2.70	1 / 0	25.70	28.40	0.692	33.01	-4.61
		2593.0	2.70	1 / 0	25.65	28.35	0.684	33.01	-4.66
		2685.0	2.70	1 / 25	25.65	28.35	0.684	33.01	-4.66
	16-QAM	2593.0	2.70	1 / 0	24.94	27.64	0.581	33.01	-5.37
	64-QAM	2593.0	2.70	1 / 0	24.93	27.63	0.579	33.01	-5.38
	256-QAM	2685.0	2.70	1 / 0	20.66	23.36	0.217	33.01	-9.65
15 MHz	QPSK	2503.5	2.70	1 / 37	25.44	28.14	0.652	33.01	-4.87
		2593.0	2.70	1 / 37	25.40	28.10	0.646	33.01	-4.91
		2682.5	2.70	1 / 37	25.54	28.24	0.667	33.01	-4.77
	16-QAM	2593.0	2.70	1 / 37	24.34	27.04	0.506	33.01	-5.97
	64-QAM	2593.0	2.70	1 / 37	24.30	27.00	0.501	33.01	-6.01
	256-QAM	2593.0	2.70	1 / 0	20.93	23.63	0.231	33.01	-9.38
20 MHz	QPSK	2506.0	2.70	1 / 0	25.38	28.08	0.643	33.01	-4.93
		2593.0	2.70	1 / 0	25.34	28.04	0.637	33.01	-4.97
		2680.0	2.70	1 / 0	25.49	28.19	0.659	33.01	-4.82
	16-QAM	2506.0	2.70	1 / 50	24.48	27.18	0.522	33.01	-5.83
	64-QAM	2506.0	2.70	1 / 50	24.47	27.17	0.521	33.01	-5.84
	256-QAM	2680.0	2.70	1 / 50	20.56	23.26	0.212	33.01	-9.75


Table 7-16. Antenna 2a EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 189 of 266

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2307.5	0.90	1 / 1	19.28	20.18	0.104	23.98	-3.80
		2310.0	0.90	1 / 23	19.23	20.13	0.103	23.98	-3.85
		2312.5	0.90	1 / 12	19.70	20.60	0.115	23.98	-3.38
	QPSK	2307.5	0.90	1 / 1	19.22	20.12	0.103	23.98	-3.86
		2310.0	0.90	1 / 12	19.54	20.44	0.111	23.98	-3.54
		2312.5	0.90	1 / 23	19.48	20.38	0.109	23.98	-3.60
	16-QAM	2312.5	0.90	1 / 23	18.49	19.39	0.087	23.98	-4.59
	64-QAM	2310.0	0.90	1 / 12	17.12	18.02	0.063	23.98	-5.96
	256-QAM	2312.5	0.90	1 / 12	15.59	16.49	0.045	23.98	-7.49
10 MHz	$\pi/2$ BPSK	2310.0	0.90	1 / 50	19.70	20.60	0.115	23.98	-3.38
	QPSK	2310.0	0.90	1 / 1	19.66	20.56	0.114	23.98	-3.42
	16-QAM	2310.0	0.90	1 / 50	18.70	19.60	0.091	23.98	-4.38
	64-QAM	2310.0	0.90	1 / 1	17.70	18.60	0.072	23.98	-5.38
	256-QAM	2310.0	0.90	1 / 50	15.96	16.86	0.048	23.98	-7.12


Table 7-17. Antenna 2a EIRP Data (NR Band n30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 190 of 266

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	3.00	1 / 1	23.85	26.85	0.484	33.01	-6.16
		2535.0	3.00	1 / 12	23.73	26.73	0.471	33.01	-6.28
		2567.5	3.00	1 / 1	23.49	26.49	0.445	33.01	-6.52
	QPSK	2502.5	3.00	1 / 23	23.74	26.74	0.472	33.01	-6.27
		2535.0	3.00	1 / 12	23.67	26.67	0.464	33.01	-6.34
		2567.5	3.00	1 / 1	23.51	26.51	0.448	33.01	-6.50
	16-QAM	2502.5	3.00	1 / 1	22.88	25.88	0.387	33.01	-7.14
	64-QAM	2535.0	3.00	1 / 1	21.34	24.34	0.272	33.01	-8.67
	256-QAM	2567.5	3.00	1 / 1	19.31	22.31	0.170	33.01	-10.70
10 MHz	π/2 BPSK	2505.0	3.00	1 / 1	23.85	26.85	0.484	33.01	-6.16
		2535.0	3.00	1 / 25	23.86	26.86	0.485	33.01	-6.15
		2565.0	3.00	1 / 25	23.68	26.68	0.466	33.01	-6.33
	QPSK	2505.0	3.00	1 / 1	23.73	26.73	0.471	33.01	-6.28
		2535.0	3.00	1 / 25	23.71	26.71	0.469	33.01	-6.30
		2565.0	3.00	1 / 50	23.64	26.64	0.462	33.01	-6.37
	16-QAM	2535.0	3.00	1 / 50	22.86	25.86	0.386	33.01	-7.15
	64-QAM	2535.0	3.00	1 / 1	21.34	24.34	0.271	33.01	-8.67
	256-QAM	2535.0	3.00	1 / 50	19.41	22.41	0.174	33.01	-10.60
15 MHz	π/2 BPSK	2507.5	3.00	1 / 1	23.90	26.90	0.490	33.01	-6.11
		2535.0	3.00	1 / 1	23.88	26.88	0.488	33.01	-6.13
		2562.5	3.00	1 / 37	23.68	26.68	0.465	33.01	-6.33
	QPSK	2507.5	3.00	1 / 37	23.87	26.87	0.487	33.01	-6.14
		2535.0	3.00	1 / 1	23.73	26.73	0.471	33.01	-6.28
		2562.5	3.00	1 / 1	23.85	26.85	0.484	33.01	-6.16
	16-QAM	2535.0	3.00	1 / 77	22.74	25.74	0.375	33.01	-7.27
	64-QAM	2507.5	3.00	1 / 1	21.44	24.44	0.278	33.01	-8.57
	256-QAM	2535.0	3.00	1 / 77	19.40	22.40	0.174	33.01	-10.61
20 MHz	π/2 BPSK	2510.0	3.00	1 / 104	23.61	26.61	0.458	33.01	-6.40
		2535.0	3.00	1 / 104	23.80	26.80	0.478	33.01	-6.21
		2560.0	3.00	1 / 50	23.90	26.90	0.490	33.01	-6.11
	QPSK	2510.0	3.00	1 / 1	23.90	26.90	0.490	33.01	-6.11
		2535.0	3.00	1 / 1	23.87	26.87	0.487	33.01	-6.14
		2560.0	3.00	1 / 104	23.77	26.77	0.475	33.01	-6.24
	16-QAM	2510.0	3.00	1 / 104	22.79	25.79	0.380	33.01	-7.22
	64-QAM	2560.0	3.00	1 / 1	21.82	24.82	0.303	33.01	-8.19
	256-QAM	2560.0	3.00	1 / 1	19.28	22.28	0.169	33.01	-10.73
25 MHz	π/2 BPSK	2512.5	3.00	1 / 1	23.74	26.74	0.472	33.01	-6.27
		2535.0	3.00	1 / 1	23.85	26.85	0.484	33.01	-6.16
		2557.5	3.00	1 / 131	23.90	26.90	0.490	33.01	-6.11
	QPSK	2512.5	3.00	1 / 1	23.78	26.78	0.476	33.01	-6.23
		2535.0	3.00	1 / 66	23.77	26.77	0.475	33.01	-6.24
		2557.5	3.00	1 / 131	23.86	26.86	0.485	33.01	-6.15
	16-QAM	2557.5	3.00	1 / 1	22.65	25.65	0.367	33.01	-7.36
	64-QAM	2512.5	3.00	1 / 66	21.65	24.65	0.292	33.01	-8.36
	256-QAM	2512.5	3.00	1 / 1	19.60	22.60	0.182	33.01	-10.41
30 MHz	π/2 BPSK	2515.0	3.00	1 / 80	23.77	26.77	0.475	33.01	-6.24
		2535.0	3.00	1 / 1	23.90	26.90	0.490	33.01	-6.11
		2555.0	3.00	1 / 1	23.80	26.80	0.478	33.01	-6.21
	QPSK	2515.0	3.00	1 / 80	23.74	26.74	0.472	33.01	-6.27
		2535.0	3.00	1 / 1	23.67	26.67	0.464	33.01	-6.34
		2555.0	3.00	1 / 158	23.70	26.70	0.468	33.01	-6.31
	16-QAM	2555.0	3.00	1 / 158	22.81	25.81	0.381	33.01	-7.20
	64-QAM	2535.0	3.00	1 / 158	21.52	24.52	0.283	33.01	-8.49
	256-QAM	2535.0	3.00	1 / 1	19.38	22.38	0.173	33.01	-10.63
40 MHz	π/2 BPSK	2520.0	3.00	1 / 108	23.90	26.90	0.490	33.01	-6.11
		2535.0	3.00	1 / 214	23.75	26.75	0.474	33.01	-6.26
		2550.0	3.00	1 / 214	23.72	26.72	0.469	33.01	-6.29
	QPSK	2520.0	3.00	1 / 108	23.71	26.71	0.469	33.01	-6.30
		2535.0	3.00	1 / 214	23.74	26.74	0.472	33.01	-6.27
		2550.0	3.00	1 / 1	23.79	26.79	0.477	33.01	-6.22
	16-QAM	2535.0	3.00	1 / 214	22.69	25.69	0.371	33.01	-7.32
	64-QAM	2520.0	3.00	1 / 1	21.67	24.67	0.293	33.01	-8.34
	256-QAM	2520.0	3.00	1 / 1	19.55	22.55	0.180	33.01	-10.46


Table 7-18. Antenna 2a EIRP Data (NR Band n7)

FCC ID: BCGA2589	 PCTEST® Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 191 of 266

NR Band n41 (PC2)

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	2510.0	2.70	1 / 25	27.18	29.88	0.973	33.01	-3.13
		2593.0	2.70	1 / 49	27.40	30.10	1.024	33.01	-2.91
		2680.0	2.70	1 / 49	27.38	30.08	1.019	33.01	-2.93
	QPSK	2510.0	2.70	1 / 49	27.39	30.09	1.021	33.01	-2.92
		2593.0	2.70	1 / 49	27.32	30.02	1.005	33.01	-2.99
		2680.0	2.70	1 / 1	27.40	30.10	1.024	33.01	-2.91
	16-QAM	2680.0	2.70	1 / 25	26.44	29.14	0.820	33.01	-3.87
	64-QAM	2680.0	2.70	1 / 25	25.17	27.87	0.612	33.01	-5.14
30 MHz	π/2 BPSK	2515.0	2.70	1 / 39	27.35	30.05	1.012	33.01	-2.96
		2593.0	2.70	1 / 39	27.58	30.28	1.067	33.01	-2.73
		2675.0	2.70	1 / 76	27.70	30.40	1.096	33.01	-2.61
	QPSK	2515.0	2.70	1 / 76	27.70	30.40	1.096	33.01	-2.61
		2593.0	2.70	1 / 1	27.66	30.36	1.086	33.01	-2.65
		2675.0	2.70	1 / 76	27.66	30.36	1.087	33.01	-2.65
	16-QAM	2593.0	2.70	1 / 1	26.69	29.39	0.889	33.01	-3.62
	64-QAM	2675.0	2.70	1 / 76	25.16	27.86	0.611	33.01	-5.15
40 MHz	π/2 BPSK	2593.0	2.70	1 / 76	22.85	25.55	0.359	33.01	-7.46
		2520.0	2.70	1 / 104	27.49	30.19	1.045	33.01	-2.82
		2593.0	2.70	1 / 53	27.49	30.19	1.044	33.01	-2.82
	QPSK	2670.0	2.70	1 / 1	27.59	30.29	1.070	33.01	-2.72
		2520.0	2.70	1 / 104	27.70	30.40	1.096	33.01	-2.61
		2593.0	2.70	1 / 1	27.54	30.24	1.057	33.01	-2.77
	16-QAM	2670.0	2.70	1 / 104	27.57	30.27	1.063	33.01	-2.74
		2520.0	2.70	1 / 53	26.59	29.29	0.849	33.01	-3.72
50 MHz	π/2 BPSK	2593.0	2.70	1 / 104	25.16	27.86	0.610	33.01	-5.15
		2520.0	2.70	1 / 1	22.98	25.68	0.370	33.01	-7.33
		2593.0	2.70	1 / 1	22.98	25.68	0.370	33.01	-7.33
	QPSK	2525.0	2.70	1 / 66	27.34	30.04	1.009	33.01	-2.97
		2593.0	2.70	1 / 1	27.27	29.97	0.994	33.01	-3.04
		2665.0	2.70	1 / 1	27.54	30.24	1.057	33.01	-2.77
	16-QAM	2525.0	2.70	1 / 131	27.35	30.05	1.012	33.01	-2.96
		2593.0	2.70	1 / 1	27.68	30.38	1.093	33.01	-2.63
60 MHz	π/2 BPSK	2665.0	2.70	1 / 131	27.58	30.28	1.068	33.01	-2.73
		2665.0	2.70	1 / 131	26.74	29.44	0.880	33.01	-3.57
		2665.0	2.70	1 / 131	25.33	28.03	0.635	33.01	-4.98
	QPSK	2665.0	2.70	1 / 131	22.86	25.56	0.360	33.01	-7.45
		2530.0	2.70	1 / 160	27.41	30.11	1.026	33.01	-2.90
		2593.0	2.70	1 / 1	27.36	30.06	1.014	33.01	-2.95
	16-QAM	2660.0	2.70	1 / 160	27.70	30.40	1.096	33.01	-2.61
		2530.0	2.70	1 / 81	27.16	29.86	0.968	33.01	-3.15
80 MHz	π/2 BPSK	2593.0	2.70	1 / 81	27.49	30.19	1.045	33.01	-2.82
		2660.0	2.70	1 / 160	27.64	30.34	1.082	33.01	-2.67
		2660.0	2.70	1 / 160	26.49	29.19	0.830	33.01	-3.82
	QPSK	2593.0	2.70	1 / 1	24.95	27.65	0.582	33.01	-5.36
		2660.0	2.70	1 / 81	22.84	25.54	0.358	33.01	-7.47
		2540.0	2.70	1 / 108	27.49	30.19	1.045	33.01	-2.82
	16-QAM	2593.0	2.70	1 / 108	27.36	30.06	1.014	33.01	-2.95
		2650.0	2.70	1 / 215	27.43	30.13	1.030	33.01	-2.88
90 MHz	π/2 BPSK	2540.0	2.70	1 / 108	27.28	29.98	0.995	33.01	-3.03
		2593.0	2.70	1 / 215	27.66	30.36	1.086	33.01	-2.65
		2650.0	2.70	1 / 108	27.68	30.38	1.091	33.01	-2.63
	QPSK	2650.0	2.70	1 / 215	26.54	29.24	0.839	33.01	-3.77
		2540.0	2.70	1 / 108	25.24	27.94	0.623	33.01	-5.07
		2650.0	2.70	1 / 215	22.80	25.50	0.355	33.01	-7.51
	16-QAM	2545.0	2.70	1 / 243	27.43	30.13	1.030	33.01	-2.88
		2593.0	2.70	1 / 122	27.23	29.93	0.984	33.01	-3.08
100 MHz	π/2 BPSK	2645.0	2.70	1 / 243	27.28	29.98	0.995	33.01	-3.03
		2545.0	2.70	1 / 122	27.10	29.80	0.955	33.01	-3.21
		2593.0	2.70	1 / 122	27.50	30.20	1.047	33.01	-2.81
	QPSK	2645.0	2.70	1 / 1	27.60	30.30	1.072	33.01	-2.71
		2545.0	2.70	1 / 122	26.49	29.19	0.830	33.01	-3.82
		2593.0	2.70	1 / 243	25.07	27.77	0.598	33.01	-5.25
	16-QAM	2593.0	2.70	1 / 243	22.85	25.55	0.359	33.01	-7.46
		2550.0	2.70	1 / 271	27.61	30.31	1.074	33.01	-2.70
100 MHz	π/2 BPSK	2593.0	2.70	1 / 271	27.45	30.15	1.035	33.01	-2.86
		2640.0	2.70	1 / 271	27.34	30.04	1.010	33.01	-2.97
		2550.0	2.70	1 / 136	27.21	29.91	0.979	33.01	-3.10
	QPSK	2593.0	2.70	1 / 136	27.52	30.22	1.052	33.01	-2.79
		2640.0	2.70	1 / 1	27.68	30.38	1.092	33.01	-2.63
		2640.0	2.70	1 / 1	26.47	29.17	0.825	33.01	-3.84
	16-QAM	2550.0	2.70	1 / 136	25.44	28.14	0.652	33.01	-4.87
		2640.0	2.70	1 / 271	22.87	25.57	0.360	33.01	-7.44


Table 7-19. Antenna 2a EIRP Data (NR Band n41 (PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/20/2021 - 2/16/2022	EUT Type: Tablet Device	Page 192 of 266

NR Band n41 (PC3)

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	2510.0	2.70	1 / 49	25.45	28.15	0.653	33.01	-4.86
		2593.0	2.70	1 / 49	25.39	28.09	0.645	33.01	-4.92
		2680.0	2.70	1 / 1	25.59	28.29	0.674	33.01	-4.72
	QPSK	2510.0	2.70	1 / 25	25.42	28.12	0.649	33.01	-4.89
		2593.0	2.70	1 / 49	25.30	28.00	0.632	33.01	-5.01
		2680.0	2.70	1 / 49	25.62	28.32	0.680	33.01	-4.69
	16-QAM	2680.0	2.70	1 / 49	24.59	27.29	0.536	33.01	-5.72
	256-QAM	2680.0	2.70	1 / 49	23.33	26.03	0.401	33.01	-6.98
30 MHz	π/2 BPSK	2593.0	2.70	50 / 0	20.70	23.40	0.219	33.01	-9.61
		2515.0	2.70	1 / 76	25.62	28.32	0.679	33.01	-4.69
		2593.0	2.70	1 / 76	25.67	28.37	0.687	33.01	-4.64
	QPSK	2675.0	2.70	1 / 76	25.59	28.29	0.675	33.01	-4.72
		2515.0	2.70	1 / 39	25.78	28.48	0.705	33.01	-4.53
		2593.0	2.70	1 / 76	25.42	28.12	0.648	33.01	-4.89
	16-QAM	2675.0	2.70	1 / 76	25.70	28.40	0.692	33.01	-4.61
	256-QAM	2675.0	2.70	1 / 76	24.85	27.55	0.569	33.01	-5.46
40 MHz	π/2 BPSK	2515.0	2.70	1 / 39	23.43	26.13	0.410	33.01	-6.88
		2593.0	2.70	1 / 39	20.88	23.58	0.228	33.01	-9.43
		2520.0	2.70	1 / 53	25.82	28.52	0.711	33.01	-4.49
	QPSK	2593.0	2.70	1 / 1	25.70	28.40	0.691	33.01	-4.61
		2670.0	2.70	1 / 1	25.52	28.22	0.664	33.01	-4.79
		2520.0	2.70	1 / 104	25.67	28.37	0.687	33.01	-4.64
	16-QAM	2593.0	2.70	1 / 104	25.70	28.40	0.692	33.01	-4.61
	256-QAM	2670.0	2.70	1 / 1	25.40	28.10	0.645	33.01	-4.91
50 MHz	π/2 BPSK	2670.0	2.70	1 / 104	24.82	27.52	0.565	33.01	-5.49
		2670.0	2.70	1 / 104	23.31	26.01	0.399	33.01	-7.00
		2670.0	2.70	1 / 1	21.02	23.72	0.236	33.01	-9.29
	QPSK	2525.0	2.70	1 / 131	25.40	28.10	0.646	33.01	-4.91
		2593.0	2.70	1 / 131	25.33	28.03	0.636	33.01	-4.98
		2665.0	2.70	1 / 131	25.47	28.17	0.656	33.01	-4.84
	16-QAM	2525.0	2.70	1 / 131	25.34	28.04	0.637	33.01	-4.97
	256-QAM	2593.0	2.70	1 / 131	25.28	27.98	0.628	33.01	-5.03
60 MHz	π/2 BPSK	2665.0	2.70	1 / 131	25.50	28.20	0.661	33.01	-4.81
		2665.0	2.70	1 / 131	24.59	27.29	0.535	33.01	-5.72
		2665.0	2.70	1 / 131	23.19	25.89	0.388	33.01	-7.13
	QPSK	2665.0	2.70	1 / 1	20.76	23.46	0.222	33.01	-9.55
		2530.0	2.70	1 / 81	25.38	28.08	0.643	33.01	-4.93
		2593.0	2.70	1 / 160	25.34	28.04	0.637	33.01	-4.97
	16-QAM	2660.0	2.70	1 / 160	25.53	28.23	0.665	33.01	-4.78
	256-QAM	2530.0	2.70	1 / 160	25.52	28.22	0.664	33.01	-4.79
80 MHz	π/2 BPSK	2593.0	2.70	1 / 160	25.37	28.07	0.641	33.01	-4.95
		2660.0	2.70	1 / 160	25.42	28.12	0.648	33.01	-4.89
		2660.0	2.70	1 / 160	24.59	27.29	0.536	33.01	-5.72
	QPSK	2660.0	2.70	1 / 160	23.34	26.04	0.402	33.01	-6.97
		2660.0	2.70	1 / 160	20.80	23.50	0.224	33.01	-9.51
		2540.0	2.70	1 / 108	25.74	28.44	0.698	33.01	-4.57
	16-QAM	2593.0	2.70	1 / 215	25.31	28.01	0.632	33.01	-5.00
	256-QAM	2650.0	2.70	1 / 215	25.49	28.19	0.659	33.01	-4.82
90 MHz	π/2 BPSK	2540.0	2.70	1 / 108	25.37	28.07	0.641	33.01	-4.94
		2593.0	2.70	1 / 108	25.54	28.24	0.666	33.01	-4.77
		2650.0	2.70	1 / 108	25.45	28.15	0.653	33.01	-4.86
	QPSK	2540.0	2.70	1 / 215	24.56	27.26	0.532	33.01	-5.75
		2593.0	2.70	1 / 215	23.08	25.78	0.378	33.01	-7.23
		2540.0	2.70	216 / 0	20.72	23.42	0.220	33.01	-9.59
	16-QAM	2545.0	2.70	1 / 122	25.63	28.33	0.681	33.01	-4.68
	256-QAM	2593.0	2.70	1 / 243	25.25	27.95	0.623	33.01	-5.06
100 MHz	π/2 BPSK	2645.0	2.70	1 / 243	25.45	28.15	0.652	33.01	-4.86
		2545.0	2.70	1 / 243	25.60	28.30	0.676	33.01	-4.71
		2593.0	2.70	1 / 243	25.51	28.21	0.662	33.01	-4.80
	QPSK	2645.0	2.70	1 / 1	25.35	28.05	0.639	33.01	-4.96
		2545.0	2.70	1 / 122	24.80	27.50	0.562	33.01	-5.51
		2645.0	2.70	1 / 243	23.18	25.88	0.388	33.01	-7.13
	16-QAM	2593.0	2.70	243 / 0	20.75	23.45	0.221	33.01	-9.56
	256-QAM	2550.0	2.70	1 / 136	25.22	27.92	0.619	33.01	-5.09
100 MHz	π/2 BPSK	2593.0	2.70	1 / 136	25.56	28.26	0.671	33.01	-4.75
		2640.0	2.70	1 / 136	25.42	28.12	0.649	33.01	-4.89
		2550.0	2.70	1 / 271	25.62	28.32	0.679	33.01	-4.69
	QPSK	2593.0	2.70	1 / 271	25.40	28.10	0.646	33.01	-4.91
		2640.0	2.70	1 / 136	25.44	28.14	0.652	33.01	-4.87
		16-QAM	2640.0	2.70	1 / 271	24.63	27.33	0.540	33.01
	64-QAM	2640.0	2.70	1 / 271	23.20	25.90	0.389	33.01	-7.11
	256-QAM	2550.0	2.70	1 / 136	20.97	23.67	0.233	33.01	-9.34

Table 7-20. Antenna 2a EIRP Data (NR Band n41 (PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/20/2021 - 2/16/2022	EUT Type: Tablet Device	Page 193 of 266

ULCA - Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset								
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	23.62	3.00	26.62	0.459	33.01	-6.39		
				21100	2535.0	1	99		21298	2554.8	1	0	23.75	3.00	26.75	0.473	33.01	-6.26		
				21350	0	2560.0	1		0	21152	0	2540.2	1	99	23.69	3.00	26.69	0.467	33.01	-6.32
				21100	2535	100	0		21298	2554.8	100	0	21.88	3.00	24.88	0.308	33.01	-8.13		
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	20.9	3.00	23.90	0.245	33.01	-9.11		
				64-QAM	21100	2535	100	0	64-QAM	21298	2554.8	100	0	20.89	3.00	23.89	0.245	33.01	-9.12	
				256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	18.94	3.00	21.94	0.156	33.01	-11.07	

Table 7-21. Antenna 2a EIRP Data (ULCA LTE Band 7)

ULCA - Band 41 (PC2)


Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	25.65	2.70	28.35	0.684	33.01	-4.66
				40620	2593.0	1	99		40818	2612.8	1	0	25.71	2.70	28.41	0.693	33.01	-4.60
				41490	2680.0	1	0		41292	2660.2	1	99	25.59	2.70	28.29	0.675	33.01	-4.72
				40620	2593	100	0		40818	2612.8	100	0	24.02	2.70	26.72	0.470	33.01	-6.29
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	23.05	2.70	25.75	0.376	33.01	-7.26
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.98	2.70	25.68	0.370	33.01	-7.33
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	21.06	2.70	23.76	0.238	33.01	-9.25

Table 7-22. Antenna 2a EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	25.4	2.70	28.10	0.646	33.01	-4.91
				40620	2593.0	1	99		40818	2612.8	1	0	25.49	2.70	28.19	0.659	33.01	-4.82
				41490	2680.0	1	0		41292	2660.2	1	99	25.41	2.70	28.11	0.647	33.01	-4.90
				40620	2593	100	0		40818	2612.8	100	0	23.67	2.70	26.37	0.434	33.01	-6.64
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.65	2.70	25.35	0.343	33.01	-7.66
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.67	2.70	25.37	0.344	33.01	-7.64
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	20.68	2.70	23.38	0.218	33.01	-9.63


Table 7-23. Antenna 2a EIRP Data (ULCA LTE Band 41 (PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 194 of 266

7.5.3 Antenna 3a – EIRP LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.30	1 / 24	22.65	22.95	0.197	23.98	-1.03
		2310.0	0.30	1 / 24	22.67	22.97	0.198	23.98	-1.01
		2312.5	0.30	1 / 12	22.70	23.00	0.200	23.98	-0.98
	16-QAM	2312.5	0.30	1 / 0	22.01	22.31	0.170	23.98	-1.67
	64-QAM	2307.5	0.30	1 / 12	20.85	21.15	0.130	23.98	-2.83
	256-QAM	2307.5	0.30	1 / 24	18.09	18.39	0.069	23.98	-5.59
10 MHz	QPSK	2310.0	0.30	1 / 25	22.70	23.00	0.200	23.98	-0.98
	16-QAM	2310.0	0.30	1 / 25	22.06	22.36	0.172	23.98	-1.62
	64-QAM	2310.0	0.30	1 / 0	21.10	21.40	0.138	23.98	-2.58
	256-QAM	2310.0	0.30	1 / 25	18.01	18.31	0.068	23.98	-5.67


Table 7-24. Antenna 3a EIRP Data (LTE Band 30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 195 of 266

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	3.60	1 / 24	24.22	27.82	0.605	33.01	-5.19
		2535.0	3.60	1 / 24	24.05	27.65	0.582	33.01	-5.36
		2567.5	3.60	1 / 24	24.40	28.00	0.631	33.01	-5.01
	16-QAM	2567.5	3.60	1 / 0	23.73	27.33	0.540	33.01	-5.68
	64-QAM	2567.5	3.60	1 / 0	22.68	26.28	0.424	33.01	-6.73
	256-QAM	2567.5	3.60	1 / 0	19.68	23.28	0.213	33.01	-9.73
10 MHz	QPSK	2505.0	3.60	1 / 49	24.19	27.79	0.601	33.01	-5.22
		2535.0	3.60	1 / 49	24.23	27.83	0.607	33.01	-5.18
		2565.0	3.60	1 / 0	24.22	27.82	0.605	33.01	-5.19
	16-QAM	2565.0	3.60	1 / 0	23.68	27.28	0.535	33.01	-5.73
	64-QAM	2535.0	3.60	1 / 49	22.85	26.45	0.441	33.01	-6.56
	256-QAM	2565.0	3.60	1 / 49	19.63	23.23	0.210	33.01	-9.79
15 MHz	QPSK	2507.5	3.60	1 / 74	24.36	27.96	0.625	33.01	-5.05
		2535.0	3.60	1 / 0	24.15	27.75	0.596	33.01	-5.26
		2562.5	3.60	1 / 74	24.30	27.90	0.616	33.01	-5.11
	16-QAM	2562.5	3.60	1 / 37	23.73	27.33	0.541	33.01	-5.68
	64-QAM	2562.5	3.60	1 / 74	22.68	26.28	0.425	33.01	-6.73
	256-QAM	2507.5	3.60	1 / 37	19.68	23.28	0.213	33.01	-9.73
20 MHz	QPSK	2510.0	3.60	1 / 50	24.40	28.00	0.631	33.01	-5.01
		2535.0	3.60	1 / 50	24.35	27.95	0.623	33.01	-5.06
		2560.0	3.60	1 / 50	24.33	27.93	0.621	33.01	-5.08
	16-QAM	2510.0	3.60	1 / 99	23.83	27.43	0.554	33.01	-5.58
	64-QAM	2560.0	3.60	1 / 50	22.73	26.33	0.429	33.01	-6.68
	256-QAM	2535.0	3.60	1 / 0	19.73	23.33	0.215	33.01	-9.68


Table 7-25. Antenna 3a EIRP Data (LTE Band 7)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 196 of 266

LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	3.10	1 / 24	25.95	29.05	0.804	33.01	-3.96
		2593.0	3.10	1 / 0	25.78	28.88	0.773	33.01	-4.13
		2687.5	3.10	1 / 24	26.00	29.10	0.813	33.01	-3.91
	16-QAM	2498.5	3.10	1 / 24	24.78	27.88	0.614	33.01	-5.13
	64-QAM	2498.5	3.10	1 / 24	23.02	26.12	0.409	33.01	-6.89
	256-QAM	2498.5	3.10	1 / 24	21.70	24.80	0.302	33.01	-8.21
10 MHz	QPSK	2501.0	3.10	1 / 49	26.16	29.26	0.843	33.01	-3.75
		2593.0	3.10	1 / 0	25.81	28.91	0.778	33.01	-4.10
		2685.0	3.10	1 / 49	25.71	28.81	0.760	33.01	-4.20
	16-QAM	2501.0	3.10	1 / 49	24.98	28.08	0.643	33.01	-4.93
	64-QAM	2501.0	3.10	1 / 49	23.44	26.54	0.451	33.01	-6.47
	256-QAM	2501.0	3.10	1 / 49	21.37	24.47	0.280	33.01	-8.54
15 MHz	QPSK	2503.5	3.10	1 / 74	26.15	29.25	0.841	33.01	-3.76
		2593.0	3.10	1 / 74	25.88	28.98	0.791	33.01	-4.03
		2682.5	3.10	1 / 74	25.78	28.88	0.773	33.01	-4.13
	16-QAM	2503.5	3.10	1 / 74	24.41	27.51	0.564	33.01	-5.50
	64-QAM	2503.5	3.10	1 / 37	23.20	26.30	0.427	33.01	-6.71
	256-QAM	2503.5	3.10	1 / 74	21.89	24.99	0.316	33.01	-8.02
20 MHz	QPSK	2506.0	3.10	1 / 50	26.04	29.14	0.820	33.01	-3.87
		2593.0	3.10	1 / 0	25.77	28.87	0.771	33.01	-4.14
		2680.0	3.10	1 / 99	25.71	28.81	0.760	33.01	-4.20
	16-QAM	2506.0	3.10	1 / 50	24.64	27.74	0.594	33.01	-5.27
	64-QAM	2506.0	3.10	1 / 50	23.29	26.39	0.436	33.01	-6.62
	256-QAM	2506.0	3.10	1 / 99	21.72	24.82	0.303	33.01	-8.19


Table 7-26. Antenna 3a EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 197 of 266

LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	3.10	1 / 24	25.36	28.46	0.701	33.01	-4.55
		2593.0	3.10	1 / 0	25.20	28.30	0.676	33.01	-4.71
		2687.5	3.10	1 / 24	25.32	28.42	0.695	33.01	-4.59
	16-QAM	2498.5	3.10	1 / 24	24.52	27.62	0.578	33.01	-5.39
	64-QAM	2498.5	3.10	1 / 24	23.62	26.72	0.470	33.01	-6.29
	256-QAM	2498.5	3.10	1 / 24	20.64	23.74	0.237	33.01	-9.27
10 MHz	QPSK	2501.0	3.10	1 / 49	25.55	28.65	0.733	33.01	-4.36
		2593.0	3.10	1 / 25	25.24	28.34	0.682	33.01	-4.67
		2685.0	3.10	1 / 25	25.21	28.31	0.678	33.01	-4.70
	16-QAM	2501.0	3.10	1 / 49	24.79	27.89	0.615	33.01	-5.12
	64-QAM	2501.0	3.10	1 / 49	23.02	26.12	0.409	33.01	-6.89
	256-QAM	2501.0	3.10	1 / 49	20.28	23.38	0.218	33.01	-9.63
15 MHz	QPSK	2503.5	3.10	1 / 37	25.27	28.37	0.687	33.01	-4.64
		2593.0	3.10	1 / 74	25.31	28.41	0.693	33.01	-4.60
		2682.5	3.10	1 / 74	25.34	28.44	0.698	33.01	-4.57
	16-QAM	2682.5	3.10	1 / 74	24.03	27.13	0.516	33.01	-5.88
	64-QAM	2503.5	3.10	1 / 37	23.24	26.34	0.431	33.01	-6.67
	256-QAM	2503.5	3.10	1 / 74	20.78	23.88	0.244	33.01	-9.13
20 MHz	QPSK	2506.0	3.10	1 / 50	25.26	28.36	0.685	33.01	-4.65
		2593.0	3.10	1 / 0	25.42	28.52	0.711	33.01	-4.49
		2680.0	3.10	1 / 99	25.27	28.37	0.687	33.01	-4.64
	16-QAM	2506.0	3.10	1 / 50	24.61	27.71	0.590	33.01	-5.30
	64-QAM	2506.0	3.10	1 / 50	23.17	26.27	0.424	33.01	-6.74
	256-QAM	2506.0	3.10	1 / 99	20.54	23.64	0.231	33.01	-9.37


Table 7-27. Antenna 3a EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 198 of 266

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2307.5	0.30	1 / 1	19.78	20.08	0.102	23.98	-3.90
		2310.0	0.30	1 / 23	19.73	20.03	0.101	23.98	-3.95
		2312.5	0.30	1 / 12	20.20	20.50	0.112	23.98	-3.48
	QPSK	2307.5	0.30	1 / 1	19.72	20.02	0.100	23.98	-3.96
		2310.0	0.30	1 / 12	20.04	20.34	0.108	23.98	-3.64
		2312.5	0.30	1 / 23	19.98	20.28	0.107	23.98	-3.70
	16-QAM	2312.5	0.30	1 / 23	18.99	19.29	0.085	23.98	-4.69
	64-QAM	2310.0	0.30	1 / 12	17.62	17.92	0.062	23.98	-6.06
	256-QAM	2312.5	0.30	1 / 12	17.10	17.40	0.055	23.98	-6.58
10 MHz	$\pi/2$ BPSK	2310.0	0.30	1 / 50	20.20	20.50	0.112	23.98	-3.48
	QPSK	2310.0	0.30	1 / 1	20.16	20.46	0.111	23.98	-3.52
	16-QAM	2310.0	0.30	1 / 50	19.20	19.50	0.089	23.98	-4.48
	64-QAM	2310.0	0.30	1 / 1	18.20	18.50	0.071	23.98	-5.48
	256-QAM	2310.0	0.30	1 / 50	16.46	16.76	0.047	23.98	-7.22


Table 7-28. Antenna 3a EIRP Data (NR Band n30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 199 of 266

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2502.5	3.60	1 / 1	23.90	27.50	0.563	33.01	-5.51
		2535.0	3.60	1 / 12	24.03	27.63	0.579	33.01	-5.38
		2567.5	3.60	1 / 12	24.14	27.74	0.594	33.01	-5.27
	QPSK	2502.5	3.60	1 / 12	23.99	27.59	0.574	33.01	-5.42
		2535.0	3.60	1 / 23	24.22	27.82	0.606	33.01	-5.19
		2567.5	3.60	1 / 1	24.28	27.88	0.614	33.01	-5.13
	16-QAM	2535.0	3.60	1 / 23	23.12	26.72	0.470	33.01	-6.29
	64-QAM	2567.5	3.60	1 / 1	21.71	25.31	0.340	33.01	-7.70
10 MHz	$\pi/2$ BPSK	2502.5	3.60	1 / 1	23.91	27.51	0.564	33.01	-5.50
		2535.0	3.60	1 / 50	24.02	27.62	0.578	33.01	-5.39
		2565.0	3.60	1 / 1	24.13	27.73	0.593	33.01	-5.28
	QPSK	2505.0	3.60	1 / 1	23.94	27.54	0.568	33.01	-5.47
		2535.0	3.60	1 / 50	24.00	27.60	0.576	33.01	-5.41
		2565.0	3.60	1 / 50	24.36	27.96	0.626	33.01	-5.05
	16-QAM	2535.0	3.60	1 / 25	22.98	26.58	0.455	33.01	-6.43
	64-QAM	2535.0	3.60	1 / 50	21.49	25.09	0.323	33.01	-7.92
15 MHz	$\pi/2$ BPSK	2507.5	3.60	1 / 1	24.02	27.62	0.578	33.01	-5.39
		2535.0	3.60	1 / 1	23.98	27.58	0.573	33.01	-5.43
		2562.5	3.60	1 / 37	24.14	27.74	0.594	33.01	-5.27
	QPSK	2507.5	3.60	1 / 37	23.87	27.47	0.559	33.01	-5.54
		2535.0	3.60	1 / 1	23.73	27.33	0.541	33.01	-5.68
		2562.5	3.60	1 / 1	23.85	27.45	0.556	33.01	-5.56
	16-QAM	2535.0	3.60	1 / 77	22.74	26.34	0.431	33.01	-6.67
	64-QAM	2507.5	3.60	1 / 1	21.44	25.04	0.319	33.01	-7.97
20 MHz	$\pi/2$ BPSK	2510.0	3.60	1 / 104	24.10	27.70	0.589	33.01	-5.31
		2535.0	3.60	1 / 104	23.90	27.50	0.562	33.01	-5.51
		2560.0	3.60	1 / 50	24.05	27.65	0.582	33.01	-5.36
	QPSK	2510.0	3.60	1 / 1	23.90	27.50	0.562	33.01	-5.51
		2535.0	3.60	1 / 50	23.94	27.54	0.567	33.01	-5.47
		2560.0	3.60	1 / 104	23.77	27.37	0.546	33.01	-5.64
	16-QAM	2510.0	3.60	1 / 104	22.79	26.39	0.436	33.01	-6.62
	64-QAM	2560.0	3.60	1 / 1	21.82	25.42	0.348	33.01	-7.59
25 MHz	$\pi/2$ BPSK	2512.5	3.60	1 / 1	23.95	27.55	0.568	33.01	-5.46
		2535.0	3.60	1 / 1	24.06	27.66	0.583	33.01	-5.35
		2557.5	3.60	1 / 131	24.11	27.71	0.590	33.01	-5.30
	QPSK	2512.5	3.60	1 / 1	23.78	27.38	0.547	33.01	-5.63
		2535.0	3.60	1 / 66	23.98	27.58	0.572	33.01	-5.43
		2557.5	3.60	1 / 131	23.86	27.46	0.557	33.01	-5.55
	16-QAM	2535.0	3.60	1 / 66	22.72	26.32	0.428	33.01	-6.69
	64-QAM	2512.5	3.60	1 / 66	21.65	25.25	0.335	33.01	-7.76
30 MHz	$\pi/2$ BPSK	2515.0	3.60	1 / 1	24.03	27.63	0.579	33.01	-5.38
		2535.0	3.60	1 / 1	24.16	27.76	0.597	33.01	-5.25
		2555.0	3.60	1 / 1	23.91	27.51	0.564	33.01	-5.50
	QPSK	2515.0	3.60	1 / 158	23.92	27.52	0.565	33.01	-5.49
		2535.0	3.60	1 / 1	23.67	27.27	0.533	33.01	-5.74
		2555.0	3.60	1 / 1	23.94	27.54	0.567	33.01	-5.48
	16-QAM	2555.0	3.60	1 / 158	22.81	26.41	0.437	33.01	-6.60
	64-QAM	2535.0	3.60	1 / 158	21.52	25.12	0.325	33.01	-7.89
40 MHz	$\pi/2$ BPSK	2520.0	3.60	1 / 108	24.14	27.74	0.595	33.01	-5.27
		2535.0	3.60	1 / 214	23.85	27.45	0.556	33.01	-5.56
		2550.0	3.60	1 / 214	23.96	27.56	0.570	33.01	-5.45
	QPSK	2520.0	3.60	1 / 108	23.71	27.31	0.538	33.01	-5.70
		2535.0	3.60	1 / 214	23.74	27.34	0.542	33.01	-5.67
		2550.0	3.60	1 / 214	23.99	27.59	0.574	33.01	-5.42
	16-QAM	2535.0	3.60	1 / 214	22.69	26.29	0.426	33.01	-6.72
	64-QAM	2520.0	3.60	1 / 1	21.67	25.27	0.336	33.01	-7.74
40 MHz	256-QAM	2520.0	3.60	1 / 1	19.55	23.15	0.206	33.01	-9.86


Table 7-29. Antenna 3a EIRP Data (NR Band n7)

FCC ID: BCGA2589	 PCTEST® Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 200 of 266

NR Band n41 (PC2)

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	2510.0	3.10	1 / 49	23.88	26.98	0.499	33.01	-6.03
		2593.0	3.10	1 / 49	23.70	26.80	0.479	33.01	-6.21
		2680.0	3.10	1 / 49	23.71	26.81	0.479	33.01	-6.20
	QPSK	2510.0	3.10	1 / 25	23.62	26.72	0.470	33.01	-6.29
		2593.0	3.10	1 / 25	23.79	26.89	0.489	33.01	-6.12
		2680.0	3.10	1 / 25	23.88	26.98	0.499	33.01	-6.03
	16-QAM	2593.0	3.10	1 / 49	22.56	25.66	0.368	33.01	-7.35
	64-QAM	2680.0	3.10	1 / 25	21.22	24.32	0.270	33.01	-8.69
256-QAM	2680.0	3.10	1 / 49	18.81	21.91	0.155	33.01	-11.10	
30 MHz	π/2 BPSK	2515.0	3.10	1 / 76	23.65	26.75	0.473	33.01	-6.26
		2593.0	3.10	1 / 39	24.05	27.15	0.519	33.01	-5.86
		2675.0	3.10	1 / 76	23.88	26.98	0.499	33.01	-6.03
	QPSK	2515.0	3.10	1 / 76	24.19	27.29	0.536	33.01	-5.72
		2593.0	3.10	1 / 76	23.92	27.02	0.503	33.01	-5.99
		2675.0	3.10	1 / 76	23.68	26.78	0.477	33.01	-6.23
	16-QAM	2675.0	3.10	1 / 76	23.14	26.24	0.421	33.01	-6.77
	64-QAM	2675.0	3.10	1 / 76	21.43	24.53	0.284	33.01	-8.48
256-QAM	2675.0	3.10	1 / 39	19.14	22.24	0.167	33.01	-10.77	
40 MHz	π/2 BPSK	2520.0	3.10	1 / 104	24.16	27.26	0.532	33.01	-5.75
		2593.0	3.10	1 / 1	23.81	26.91	0.491	33.01	-6.10
		2670.0	3.10	1 / 1	23.93	27.03	0.505	33.01	-5.98
	QPSK	2520.0	3.10	1 / 104	23.93	27.03	0.505	33.01	-5.98
		2593.0	3.10	1 / 1	23.86	26.96	0.496	33.01	-6.05
		2670.0	3.10	1 / 1	24.03	27.13	0.517	33.01	-5.88
	16-QAM	2520.0	3.10	1 / 104	22.69	25.79	0.379	33.01	-7.22
	64-QAM	2670.0	3.10	1 / 104	21.51	24.61	0.289	33.01	-8.40
256-QAM	2670.0	3.10	1 / 104	19.06	22.16	0.165	33.01	-10.85	
50 MHz	π/2 BPSK	2525.0	3.10	1 / 66	23.79	26.89	0.489	33.01	-6.12
		2593.0	3.10	1 / 131	23.77	26.87	0.486	33.01	-6.14
		2665.0	3.10	1 / 66	23.85	26.95	0.495	33.01	-6.06
	QPSK	2525.0	3.10	1 / 131	24.03	27.13	0.516	33.01	-5.88
		2593.0	3.10	1 / 131	23.81	26.91	0.491	33.01	-6.10
		2665.0	3.10	1 / 1	24.20	27.30	0.537	33.01	-5.71
	16-QAM	2593.0	3.10	1 / 1	22.73	25.83	0.383	33.01	-7.18
	64-QAM	2525.0	3.10	1 / 131	21.74	24.84	0.305	33.01	-8.17
256-QAM	2593.0	3.10	1 / 1	19.08	22.18	0.165	33.01	-10.83	
60 MHz	π/2 BPSK	2530.0	3.10	1 / 160	23.99	27.09	0.512	33.01	-5.92
		2593.0	3.10	1 / 81	23.88	26.98	0.499	33.01	-6.03
		2660.0	3.10	1 / 160	23.91	27.01	0.502	33.01	-6.00
	QPSK	2530.0	3.10	1 / 160	23.93	27.03	0.505	33.01	-5.98
		2593.0	3.10	1 / 1	23.79	26.89	0.489	33.01	-6.12
		2660.0	3.10	1 / 81	23.82	26.92	0.492	33.01	-6.09
	16-QAM	2660.0	3.10	1 / 1	22.76	25.86	0.385	33.01	-7.15
	64-QAM	2530.0	3.10	1 / 81	21.36	24.46	0.279	33.01	-8.55
256-QAM	2593.0	3.10	1 / 1	18.78	21.88	0.154	33.01	-11.13	
80 MHz	π/2 BPSK	2540.0	3.10	1 / 215	23.93	27.03	0.505	33.01	-5.98
		2593.0	3.10	1 / 108	23.96	27.06	0.508	33.01	-5.95
		2650.0	3.10	1 / 1	24.04	27.14	0.517	33.01	-5.87
	QPSK	2540.0	3.10	1 / 108	23.98	27.08	0.511	33.01	-5.93
		2593.0	3.10	1 / 215	23.84	26.94	0.494	33.01	-6.07
		2650.0	3.10	1 / 1	23.81	26.91	0.491	33.01	-6.10
	16-QAM	2650.0	3.10	1 / 1	22.96	26.06	0.403	33.01	-6.95
	64-QAM	2650.0	3.10	1 / 215	21.41	24.51	0.283	33.01	-8.50
256-QAM	2540.0	3.10	1 / 215	18.79	21.89	0.155	33.01	-11.12	
90 MHz	π/2 BPSK	2545.0	3.10	1 / 122	24.01	27.11	0.514	33.01	-5.90
		2593.0	3.10	1 / 122	23.84	26.94	0.494	33.01	-6.07
		2645.0	3.10	1 / 243	23.95	27.05	0.507	33.01	-5.96
	QPSK	2545.0	3.10	1 / 122	23.99	27.09	0.512	33.01	-5.92
		2593.0	3.10	1 / 243	23.76	26.86	0.485	33.01	-6.15
		2645.0	3.10	1 / 122	24.20	27.30	0.537	33.01	-5.71
	16-QAM	2545.0	3.10	1 / 122	22.68	25.78	0.378	33.01	-7.23
	64-QAM	2645.0	3.10	1 / 243	21.43	24.53	0.284	33.01	-8.48
256-QAM	2545.0	3.10	1 / 122	19.01	22.11	0.163	33.01	-10.90	
100 MHz	π/2 BPSK	2550.0	3.10	1 / 136	23.86	26.96	0.497	33.01	-6.05
		2593.0	3.10	1 / 136	23.70	26.80	0.479	33.01	-6.21
		2640.0	3.10	1 / 271	23.78	26.88	0.488	33.01	-6.13
	QPSK	2550.0	3.10	1 / 271	24.01	27.11	0.514	33.01	-5.90
		2593.0	3.10	1 / 136	23.86	26.96	0.497	33.01	-6.05
		2640.0	3.10	1 / 1	23.95	27.05	0.506	33.01	-5.97
	16-QAM	2593.0	3.10	1 / 271	22.72	25.82	0.382	33.01	-7.19
	64-QAM	2593.0	3.10	1 / 271	21.38	24.48	0.281	33.01	-8.53
256-QAM	2550.0	3.10	1 / 136	19.20	22.30	0.170	33.01	-10.71	


Table 7-30. Antenna 3a EIRP Data (NR Band n41 (PC2))

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 201 of 266

NR Band n41 (PC3)

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	2510.0	3.10	1 / 49	23.86	26.96	0.497	33.01	-6.05
		2593.0	3.10	1 / 49	23.74	26.84	0.483	33.01	-6.17
		2680.0	3.10	1 / 1	23.83	26.93	0.493	33.01	-6.08
	QPSK	2510.0	3.10	1 / 49	23.85	26.95	0.495	33.01	-6.06
		2593.0	3.10	1 / 49	23.87	26.97	0.498	33.01	-6.04
		2680.0	3.10	1 / 49	23.97	27.07	0.509	33.01	-5.94
	16-QAM	2680.0	3.10	1 / 25	22.58	25.68	0.370	33.01	-7.33
		2510.0	3.10	1 / 25	21.05	24.15	0.260	33.01	-8.86
30 MHz	π/2 BPSK	2680.0	3.10	1 / 49	18.85	21.95	0.157	33.01	-11.06
		2515.0	3.10	1 / 76	23.98	27.08	0.511	33.01	-5.93
		2593.0	3.10	1 / 39	23.93	27.03	0.504	33.01	-5.98
	QPSK	2675.0	3.10	1 / 39	23.91	27.01	0.502	33.01	-6.00
		2515.0	3.10	1 / 39	23.74	26.84	0.483	33.01	-6.17
		2593.0	3.10	1 / 1	24.02	27.12	0.516	33.01	-5.89
	16-QAM	2675.0	3.10	1 / 76	23.83	26.93	0.494	33.01	-6.08
		2593.0	3.10	1 / 1	22.89	25.99	0.397	33.01	-7.02
40 MHz	π/2 BPSK	2675.0	3.10	75 / 0	19.09	22.19	0.166	33.01	-10.82
		2593.0	3.10	1 / 104	23.92	27.02	0.504	33.01	-5.99
		2515.0	3.10	1 / 1	23.79	26.89	0.489	33.01	-6.12
	QPSK	2670.0	3.10	1 / 53	23.86	26.96	0.496	33.01	-6.05
		2520.0	3.10	1 / 104	23.85	26.95	0.495	33.01	-6.06
		2593.0	3.10	1 / 1	23.87	26.97	0.497	33.01	-6.04
	16-QAM	2670.0	3.10	1 / 104	23.94	27.04	0.506	33.01	-5.97
		2593.0	3.10	1 / 1	23.03	26.13	0.411	33.01	-6.88
50 MHz	π/2 BPSK	2520.0	3.10	1 / 104	21.52	24.62	0.290	33.01	-8.39
		2670.0	3.10	100 / 0	19.06	22.16	0.165	33.01	-10.85
		2525.0	3.10	1 / 66	23.85	26.95	0.495	33.01	-6.06
	QPSK	2593.0	3.10	1 / 1	23.99	27.09	0.512	33.01	-5.92
		2665.0	3.10	1 / 131	23.94	27.04	0.506	33.01	-5.97
		2525.0	3.10	1 / 66	23.76	26.86	0.485	33.01	-6.15
	16-QAM	2593.0	3.10	1 / 131	23.73	26.83	0.482	33.01	-6.18
		2665.0	3.10	1 / 131	23.97	27.07	0.509	33.01	-5.94
60 MHz	π/2 BPSK	2665.0	3.10	1 / 1	22.77	25.87	0.386	33.01	-7.14
		2665.0	3.10	1 / 131	21.31	24.41	0.276	33.01	-8.60
		2525.0	3.10	1 / 131	19.05	22.15	0.164	33.01	-10.86
	QPSK	2530.0	3.10	1 / 160	23.79	26.89	0.489	33.01	-6.12
		2593.0	3.10	1 / 81	23.91	27.01	0.502	33.01	-6.00
		2660.0	3.10	1 / 160	23.71	26.81	0.480	33.01	-6.20
	16-QAM	2530.0	3.10	1 / 160	23.70	26.80	0.479	33.01	-6.21
		2593.0	3.10	1 / 81	23.98	27.08	0.511	33.01	-5.93
80 MHz	π/2 BPSK	2660.0	3.10	1 / 160	23.81	26.91	0.491	33.01	-6.10
		2530.0	3.10	1 / 81	22.77	25.87	0.386	33.01	-7.14
		2660.0	3.10	1 / 160	21.17	24.27	0.267	33.01	-8.74
	QPSK	2530.0	3.10	162 / 0	18.99	22.09	0.162	33.01	-10.92
		2540.0	3.10	1 / 108	23.79	26.89	0.489	33.01	-6.12
		2593.0	3.10	1 / 108	23.88	26.98	0.499	33.01	-6.03
	16-QAM	2650.0	3.10	1 / 215	23.71	26.81	0.480	33.01	-6.20
		2540.0	3.10	1 / 215	23.59	26.69	0.467	33.01	-6.32
90 MHz	π/2 BPSK	2593.0	3.10	1 / 215	23.73	26.83	0.482	33.01	-6.18
		2650.0	3.10	1 / 215	23.97	27.07	0.510	33.01	-5.94
		2540.0	3.10	1 / 108	22.78	25.88	0.387	33.01	-7.13
	QPSK	2650.0	3.10	1 / 108	21.56	24.66	0.292	33.01	-8.35
		2650.0	3.10	1 / 215	19.16	22.26	0.168	33.01	-10.75
		2545.0	3.10	1 / 122	23.77	26.87	0.486	33.01	-6.14
	16-QAM	2593.0	3.10	1 / 122	23.91	27.01	0.502	33.01	-6.00
		2645.0	3.10	1 / 243	23.78	26.88	0.488	33.01	-6.13
100 MHz	π/2 BPSK	2545.0	3.10	1 / 122	23.83	26.93	0.493	33.01	-6.08
		2593.0	3.10	1 / 243	23.77	26.87	0.486	33.01	-6.14
		2645.0	3.10	1 / 243	23.78	26.88	0.488	33.01	-6.13
	QPSK	2545.0	3.10	1 / 122	22.79	25.89	0.388	33.01	-7.12
		2545.0	3.10	1 / 243	21.50	24.60	0.288	33.01	-8.41
		2593.0	3.10	243 / 0	19.07	22.17	0.165	33.01	-10.84
	16-QAM	2550.0	3.10	1 / 271	24.10	27.20	0.525	33.01	-5.81
		2593.0	3.10	1 / 271	24.00	27.10	0.513	33.01	-5.91
100 MHz	π/2 BPSK	2640.0	3.10	1 / 271	24.02	27.12	0.515	33.01	-5.89
		2550.0	3.10	1 / 271	23.58	26.68	0.466	33.01	-6.33
		2593.0	3.10	1 / 271	23.79	26.89	0.489	33.01	-6.12
	QPSK	2640.0	3.10	1 / 271	24.11	27.21	0.526	33.01	-5.80
		2640.0	3.10	1 / 271	22.84	25.94	0.393	33.01	-7.07
		2550.0	3.10	1 / 136	21.40	24.50	0.282	33.01	-8.51
	16-QAM	2593.0	3.10	270 / 0	19.10	22.20	0.166	33.01	-10.81
		2593.0	3.10	270 / 0	19.10	22.20	0.166	33.01	-10.81

Table 7-31. Antenna 3a EIRP Data (NR Band n41 (PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	24.63	3.60	28.23	0.665	33.01	-4.78
				21100	2535.0	1	99		21298	2554.8	1	0	24.49	3.60	28.09	0.644	33.01	-4.92
				21350	2560.0	1	0		21552	2580.2	1	99	24.62	3.60	28.22	0.664	33.01	-4.79
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	22.64	3.60	26.24	0.421	33.01	-6.77
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	21.67	3.60	25.27	0.337	33.01	-7.74
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	21.61	3.60	25.21	0.332	33.01	-7.80
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	19.68	3.60	23.28	0.213	33.01	-9.73

Table 7-32. Antenna 3a EIRP Data (ULCA LTE Band 7)

ULCA - Band 41 (PC2)


Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	26.25	3.10	29.35	0.861	33.01	-3.66
			QPSK	40620	2593.0	1	99	QPSK	40818	2612.8	1	0	26.31	3.10	29.41	0.873	33.01	-3.60
			QPSK	41490	2680.0	1	0	QPSK	41292	2660.2	1	99	26.01	3.10	29.11	0.815	33.01	-3.90
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	24.66	3.10	27.76	0.597	33.01	-5.25
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	23.75	3.10	26.85	0.484	33.01	-6.16
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	23.39	3.10	26.49	0.446	33.01	-6.52
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	21.72	3.10	24.82	0.303	33.01	-8.19

Table 7-33. Antenna 3a EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	25.55	3.10	28.65	0.733	33.01	-4.36
				40620	2593.0	1	99		40818	2612.8	1	0	25.28	3.10	28.38	0.689	33.01	-4.63
				41490	2680.0	1	0		41292	2660.2	1	99	25.32	3.10	28.42	0.695	33.01	-4.59
			QPSK	39790	2510	100	0	QPSK	39988	2529.8	100	0	23.74	3.10	26.84	0.483	33.01	-6.17
			16-QAM	39790	2510	100	0	16-QAM	39988	2529.8	100	0	22.72	3.10	25.82	0.382	33.01	-7.19
			64-QAM	39790	2510	100	0	64-QAM	39988	2529.8	100	0	22.75	3.10	25.85	0.385	33.01	-7.16
			256-QAM	39790	2510	100	0	256-QAM	39988	2529.8	100	0	20.74	3.10	23.84	0.242	33.01	-9.17

Table 7-34. Antenna 3a EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.4 Antenna 1a – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.60	1 / 12	22.38	22.98	0.199	23.98	-1.00
		2310.0	0.60	1 / 12	22.40	23.00	0.200	23.98	-0.98
		2312.5	0.60	1 / 0	22.39	22.99	0.199	23.98	-0.99
	16-QAM	2307.5	0.60	1 / 24	21.78	22.38	0.173	23.98	-1.60
	64-QAM	2312.5	0.60	1 / 24	20.92	21.52	0.142	23.98	-2.46
	256-QAM	2312.5	0.60	1 / 24	18.00	18.60	0.072	23.98	-5.38
10 MHz	QPSK	2310.0	0.60	1 / 0	22.40	23.00	0.200	23.98	-0.98
	16-QAM	2310.0	0.60	1 / 49	21.98	22.58	0.181	23.98	-1.40
	64-QAM	2310.0	0.60	1 / 0	20.77	21.37	0.137	23.98	-2.61
	256-QAM	2310.0	0.60	1 / 25	18.01	18.61	0.073	23.98	-5.36


Table 7-35. Antenna 1a EIRP Data (LTE Band 30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	1.30	1 / 24	22.67	23.97	0.250	33.01	-9.04
		2535.0	1.30	1 / 24	22.70	24.00	0.251	33.01	-9.01
		2567.5	1.30	1 / 12	22.72	24.02	0.253	33.01	-8.99
	16-QAM	2535.0	1.30	1 / 24	22.23	23.53	0.225	33.01	-9.48
	64-QAM	2567.5	1.30	1 / 12	21.18	22.48	0.177	33.01	-10.53
	256-QAM	2535.0	1.30	1 / 12	18.10	19.40	0.087	33.01	-13.62
10 MHz	QPSK	2505.0	1.30	1 / 49	22.71	24.01	0.252	33.01	-9.00
		2535.0	1.30	1 / 25	22.61	23.91	0.246	33.01	-9.10
		2565.0	1.30	1 / 25	22.63	23.93	0.247	33.01	-9.08
	16-QAM	2535.0	1.30	1 / 0	22.04	23.34	0.216	33.01	-9.67
	64-QAM	2535.0	1.30	1 / 25	21.27	22.57	0.181	33.01	-10.44
	256-QAM	2505.0	1.30	1 / 49	18.00	19.30	0.085	33.01	-13.71
15 MHz	QPSK	2507.5	1.30	1 / 74	22.73	24.03	0.253	33.01	-8.98
		2535.0	1.30	1 / 0	22.63	23.93	0.247	33.01	-9.08
		2562.5	1.30	1 / 0	22.72	24.02	0.253	33.01	-8.99
	16-QAM	2562.5	1.30	1 / 37	22.09	23.39	0.218	33.01	-9.62
	64-QAM	2507.5	1.30	1 / 74	21.10	22.40	0.174	33.01	-10.61
	256-QAM	2562.5	1.30	1 / 0	17.98	19.28	0.085	33.01	-13.73
20 MHz	QPSK	2510.0	1.30	1 / 99	22.83	24.13	0.259	33.01	-8.88
		2535.0	1.30	1 / 50	22.72	24.02	0.252	33.01	-9.00
		2560.0	1.30	1 / 0	22.66	23.96	0.249	33.01	-9.05
	16-QAM	2510.0	1.30	1 / 99	22.26	23.56	0.227	33.01	-9.45
	64-QAM	2510.0	1.30	1 / 50	21.22	22.52	0.178	33.01	-10.49
	256-QAM	2510.0	1.30	1 / 50	18.21	19.51	0.089	33.01	-13.50


Table 7-36. Antenna 1a EIRP Data (LTE Band 7)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	0.90	1 / 24	24.27	25.17	0.329	33.01	-7.84
		2593.0	0.90	1 / 0	24.37	25.27	0.337	33.01	-7.74
		2687.5	0.90	1 / 12	24.40	25.30	0.339	33.01	-7.71
	16-QAM	2593.0	0.90	1 / 12	23.17	24.07	0.255	33.01	-8.94
	64-QAM	2593.0	0.90	1 / 12	22.04	22.94	0.197	33.01	-10.07
	256-QAM	2593.0	0.90	1 / 0	20.09	20.99	0.126	33.01	-12.02
10 MHz	QPSK	2501.0	0.90	1 / 49	24.44	25.34	0.342	33.01	-7.67
		2593.0	0.90	1 / 0	24.42	25.32	0.340	33.01	-7.69
		2685.0	0.90	1 / 0	24.28	25.18	0.330	33.01	-7.83
	16-QAM	2593.0	0.90	1 / 0	23.38	24.28	0.268	33.01	-8.73
	64-QAM	2593.0	0.90	1 / 49	22.50	23.40	0.219	33.01	-9.61
	256-QAM	2593.0	0.90	1 / 25	19.77	20.67	0.117	33.01	-12.34
15 MHz	QPSK	2503.5	0.90	1 / 74	24.57	25.47	0.352	33.01	-7.54
		2593.0	0.90	1 / 0	24.45	25.35	0.343	33.01	-7.66
		2682.5	0.90	1 / 74	24.54	25.44	0.350	33.01	-7.57
	16-QAM	2593.0	0.90	1 / 0	23.67	24.57	0.286	33.01	-8.44
	64-QAM	2593.0	0.90	1 / 0	23.01	23.91	0.246	33.01	-9.10
	256-QAM	2593.0	0.90	1 / 0	20.14	21.04	0.127	33.01	-11.97
20 MHz	QPSK	2506.0	0.90	1 / 99	24.50	25.40	0.347	33.01	-7.61
		2593.0	0.90	1 / 0	24.39	25.29	0.338	33.01	-7.72
		2680.0	0.90	1 / 0	24.23	25.13	0.326	33.01	-7.88
	16-QAM	2593.0	0.90	1 / 0	23.63	24.53	0.284	33.01	-8.48
	64-QAM	2680.0	0.90	1 / 0	22.37	23.27	0.212	33.01	-9.74
	256-QAM	2593.0	0.90	1 / 0	19.75	20.65	0.116	33.01	-12.36


Table 7-37. Antenna 1a EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	0.90	1 / 24	24.27	25.17	0.329	33.01	-7.84
		2593.0	0.90	1 / 0	24.37	25.27	0.337	33.01	-7.74
		2687.5	0.90	1 / 12	24.40	25.30	0.339	33.01	-7.71
	16-QAM	2593.0	0.90	1 / 12	23.17	24.07	0.255	33.01	-8.94
	64-QAM	2593.0	0.90	1 / 12	22.04	22.94	0.197	33.01	-10.07
	256-QAM	2593.0	0.90	1 / 0	20.09	20.99	0.126	33.01	-12.02
10 MHz	QPSK	2501.0	0.90	1 / 49	24.44	25.34	0.342	33.01	-7.67
		2593.0	0.90	1 / 0	24.42	25.32	0.340	33.01	-7.69
		2685.0	0.90	1 / 0	24.28	25.18	0.330	33.01	-7.83
	16-QAM	2593.0	0.90	1 / 0	23.38	24.28	0.268	33.01	-8.73
	64-QAM	2593.0	0.90	1 / 49	22.50	23.40	0.219	33.01	-9.61
	256-QAM	2593.0	0.90	1 / 25	19.77	20.67	0.117	33.01	-12.34
15 MHz	QPSK	2503.5	0.90	1 / 74	24.57	25.47	0.352	33.01	-7.54
		2593.0	0.90	1 / 0	24.45	25.35	0.343	33.01	-7.66
		2682.5	0.90	1 / 74	24.54	25.44	0.350	33.01	-7.57
	16-QAM	2593.0	0.90	1 / 0	23.67	24.57	0.286	33.01	-8.44
	64-QAM	2593.0	0.90	1 / 0	23.01	23.91	0.246	33.01	-9.10
	256-QAM	2593.0	0.90	1 / 0	20.14	21.04	0.127	33.01	-11.97
20 MHz	QPSK	2506.0	0.90	1 / 99	24.50	25.40	0.347	33.01	-7.61
		2593.0	0.90	1 / 0	24.39	25.29	0.338	33.01	-7.72
		2680.0	0.90	1 / 0	24.23	25.13	0.326	33.01	-7.88
	16-QAM	2593.0	0.90	1 / 0	23.63	24.53	0.284	33.01	-8.48
	64-QAM	2680.0	0.90	1 / 0	22.37	23.27	0.212	33.01	-9.74
	256-QAM	2593.0	0.90	1 / 0	19.75	20.65	0.116	33.01	-12.36


Table 7-38. Antenna 1a EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 207 of 266

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	0.60	1 / 1	18.28	18.88	0.077	23.98	-5.10
		2310.0	0.60	1 / 23	18.63	19.23	0.084	23.98	-4.75
		2312.5	0.60	1 / 12	18.70	19.30	0.085	23.98	-4.68
	QPSK	2307.5	0.60	1 / 1	18.22	18.82	0.076	23.98	-5.16
		2310.0	0.60	1 / 12	18.54	19.14	0.082	23.98	-4.84
		2312.5	0.60	1 / 23	18.48	19.08	0.081	23.98	-4.90
	16-QAM	2312.5	0.60	1 / 23	17.49	18.09	0.064	23.98	-5.89
	64-QAM	2310.0	0.60	1 / 12	16.77	17.37	0.055	23.98	-6.61
	256-QAM	2312.5	0.60	1 / 12	14.65	15.25	0.033	23.98	-8.73
10 MHz	π/2 BPSK	2310.0	0.60	1 / 50	18.70	19.30	0.085	23.98	-4.68
	QPSK	2310.0	0.60	1 / 1	18.66	19.26	0.084	23.98	-4.72
	16-QAM	2310.0	0.60	1 / 50	17.70	18.30	0.068	23.98	-5.68
	64-QAM	2310.0	0.60	1 / 1	16.70	17.30	0.054	23.98	-6.68
	256-QAM	2310.0	0.60	1 / 50	15.02	15.62	0.036	23.98	-8.36


Table 7-39. Antenna 1a EIRP Data (NR Band n30)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 208 of 266

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	1.30	1 / 23	22.88	24.18	0.262	33.01	-8.83
		2535.0	1.30	1 / 23	22.88	24.18	0.262	33.01	-8.83
		2567.5	1.30	1 / 12	22.76	24.06	0.254	33.01	-8.95
	QPSK	2502.5	1.30	1 / 23	22.90	24.20	0.263	33.01	-8.81
		2535.0	1.30	1 / 23	22.79	24.09	0.257	33.01	-8.92
		2567.5	1.30	1 / 12	22.82	24.12	0.258	33.01	-8.89
	16-QAM	2535.0	1.30	1 / 1	22.15	23.45	0.221	33.01	-9.56
	64-QAM	2567.5	1.30	1 / 23	20.87	22.17	0.165	33.01	-10.84
10 MHz	π/2 BPSK	2502.5	1.30	1 / 1	18.84	20.14	0.103	33.01	-12.87
		2505.0	1.30	1 / 1	22.90	24.20	0.263	33.01	-8.81
		2535.0	1.30	1 / 25	22.72	24.02	0.253	33.01	-8.99
	QPSK	2565.0	1.30	1 / 1	22.74	24.04	0.254	33.01	-8.97
		2505.0	1.30	1 / 25	22.88	24.18	0.262	33.01	-8.83
		2535.0	1.30	1 / 50	22.52	23.82	0.241	33.01	-9.19
	16-QAM	2565.0	1.30	1 / 25	22.40	23.70	0.234	33.01	-9.31
		2535.0	1.30	1 / 25	21.74	23.04	0.201	33.01	-9.97
15 MHz	π/2 BPSK	2505.0	1.30	1 / 25	20.65	21.95	0.157	33.01	-11.06
		2565.0	1.30	50 / 0	18.23	19.53	0.090	33.01	-13.48
		2507.5	1.30	1 / 77	22.83	24.13	0.259	33.01	-8.88
	QPSK	2535.0	1.30	1 / 77	22.87	24.17	0.261	33.01	-8.84
		2562.5	1.30	1 / 77	22.86	24.16	0.261	33.01	-8.85
		2507.5	1.30	1 / 37	22.85	24.15	0.260	33.01	-8.86
	16-QAM	2535.0	1.30	1 / 37	22.62	23.92	0.247	33.01	-9.09
		2562.5	1.30	1 / 37	22.90	24.20	0.263	33.01	-8.81
20 MHz	π/2 BPSK	2507.5	1.30	1 / 77	18.82	20.12	0.103	33.01	-12.89
		2507.5	1.30	1 / 77	22.06	23.36	0.217	33.01	-9.65
		2562.5	1.30	1 / 37	20.50	21.80	0.151	33.01	-11.21
	QPSK	2507.5	1.30	1 / 77	22.06	23.36	0.217	33.01	-9.65
		2562.5	1.30	1 / 37	20.50	21.80	0.151	33.01	-11.21
		2507.5	1.30	1 / 77	18.82	20.12	0.103	33.01	-12.89
	16-QAM	2507.5	1.30	1 / 77	22.06	23.36	0.217	33.01	-9.65
		2562.5	1.30	1 / 37	20.50	21.80	0.151	33.01	-11.21
25 MHz	π/2 BPSK	2510.0	1.30	1 / 104	18.67	19.97	0.099	33.01	-13.04
		2510.0	1.30	1 / 104	22.78	24.08	0.256	33.01	-8.93
		2535.0	1.30	1 / 50	22.87	24.17	0.261	33.01	-8.84
	QPSK	2560.0	1.30	1 / 1	22.86	24.16	0.261	33.01	-8.85
		2510.0	1.30	1 / 104	22.78	24.08	0.256	33.01	-8.93
		2535.0	1.30	1 / 1	22.62	23.92	0.246	33.01	-9.09
	16-QAM	2560.0	1.30	1 / 1	22.73	24.03	0.253	33.01	-8.98
		2510.0	1.30	1 / 1	21.97	23.27	0.212	33.01	-9.74
30 MHz	π/2 BPSK	2510.0	1.30	1 / 50	20.85	22.15	0.164	33.01	-10.86
		2510.0	1.30	1 / 104	18.67	19.97	0.099	33.01	-13.04
		2512.5	1.30	1 / 66	22.90	24.20	0.263	33.01	-8.81
	QPSK	2535.0	1.30	1 / 1	22.76	24.06	0.255	33.01	-8.95
		2557.5	1.30	1 / 1	22.56	23.86	0.243	33.01	-9.15
		2512.5	1.30	1 / 1	22.69	23.99	0.251	33.01	-9.02
	16-QAM	2535.0	1.30	1 / 66	22.74	24.04	0.253	33.01	-8.98
		2557.5	1.30	1 / 131	22.48	23.78	0.239	33.01	-9.23
40 MHz	π/2 BPSK	2512.5	1.30	1 / 1	22.00	23.30	0.214	33.01	-9.71
		2512.5	1.30	1 / 131	20.34	21.64	0.146	33.01	-11.37
		2535.0	1.30	1 / 1	18.54	19.84	0.096	33.01	-13.17
	QPSK	2515.0	1.30	1 / 158	22.74	24.04	0.254	33.01	-8.97
		2535.0	1.30	1 / 80	22.90	24.20	0.263	33.01	-8.81
		2555.0	1.30	1 / 1	22.48	23.78	0.239	33.01	-9.23
	16-QAM	2515.0	1.30	1 / 1	22.64	23.94	0.248	33.01	-9.07
		2535.0	1.30	1 / 80	22.67	23.97	0.250	33.01	-9.04
5 MHz	π/2 BPSK	2555.0	1.30	1 / 80	22.65	23.95	0.248	33.01	-9.06
		2515.0	1.30	1 / 1	21.92	23.22	0.210	33.01	-9.79
		2515.0	1.30	1 / 158	20.32	21.62	0.145	33.01	-11.39
	QPSK	2515.0	1.30	1 / 1	18.30	19.60	0.091	33.01	-13.41
		2515.0	1.30	1 / 1	22.03	23.33	0.215	33.01	-9.68
		2520.0	1.30	1 / 1	20.43	21.73	0.149	33.01	-11.28
	16-QAM	2520.0	1.30	1 / 1	18.57	19.87	0.097	33.01	-13.14
		2520.0	1.30	1 / 1	22.03	23.33	0.215	33.01	-9.68


Table 7-40. Antenna 1a EIRP Data (NR Band n7)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 209 of 266

NR Band n41 (PC2)

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	2510.0	0.90	1 / 49	26.04	26.94	0.494	33.01	-6.07
		2593.0	0.90	1 / 25	25.79	26.69	0.466	33.01	-6.32
		2680.0	0.90	1 / 49	25.90	26.80	0.479	33.01	-6.21
	QPSK	2510.0	0.90	1 / 49	25.33	26.23	0.420	33.01	-6.78
		2593.0	0.90	1 / 1	25.68	26.58	0.455	33.01	-6.43
		2680.0	0.90	1 / 49	25.69	26.59	0.457	33.01	-6.42
	16-QAM	2510.0	0.90	1 / 49	25.15	26.05	0.403	33.01	-6.96
	256-QAM	2510.0	0.90	1 / 25	23.33	24.23	0.265	33.01	-8.78
30 MHz	π/2 BPSK	2680.0	0.90	1 / 49	21.44	22.34	0.171	33.01	-10.67
		2515.0	0.90	1 / 39	26.13	27.03	0.505	33.01	-5.99
		2593.0	0.90	1 / 1	25.71	26.61	0.459	33.01	-6.40
	QPSK	2675.0	0.90	1 / 76	25.97	26.87	0.487	33.01	-6.14
		2515.0	0.90	1 / 76	25.87	26.77	0.475	33.01	-6.24
		2593.0	0.90	1 / 1	26.02	26.92	0.492	33.01	-6.09
	16-QAM	2675.0	0.90	1 / 1	26.07	26.97	0.497	33.01	-6.04
		2675.0	0.90	1 / 76	25.45	26.35	0.432	33.01	-6.66
64-QAM		2675.0	0.90	1 / 1	23.35	24.25	0.266	33.01	-8.76
40 MHz	256-QAM	2515.0	0.90	1 / 39	21.41	22.31	0.170	33.01	-10.70
		2520.0	0.90	1 / 104	26.20	27.10	0.513	33.01	-5.91
		2593.0	0.90	1 / 1	25.68	26.58	0.454	33.01	-6.44
	π/2 BPSK	2670.0	0.90	1 / 104	26.06	26.96	0.496	33.01	-6.05
		2520.0	0.90	1 / 104	25.79	26.69	0.467	33.01	-6.32
		2593.0	0.90	1 / 1	25.83	26.73	0.471	33.01	-6.28
	QPSK	2670.0	0.90	1 / 1	26.06	26.96	0.496	33.01	-6.05
		16-QAM	2670.0	0.90	1 / 104	25.30	26.20	0.417	33.01
64-QAM		2670.0	0.90	1 / 104	24.00	24.90	0.309	33.01	-8.11
50 MHz	256-QAM	2520.0	0.90	1 / 104	21.74	22.64	0.184	33.01	-10.37
		2525.0	0.90	1 / 131	26.14	27.04	0.506	33.01	-5.97
		2593.0	0.90	1 / 131	25.77	26.67	0.465	33.01	-6.34
	π/2 BPSK	2665.0	0.90	1 / 66	25.88	26.78	0.477	33.01	-6.23
		2525.0	0.90	1 / 131	25.82	26.72	0.470	33.01	-6.29
		2593.0	0.90	1 / 1	25.66	26.56	0.453	33.01	-6.45
	QPSK	2665.0	0.90	1 / 131	25.86	26.76	0.474	33.01	-6.25
		16-QAM	2665.0	0.90	1 / 66	25.25	26.15	0.412	33.01
64-QAM		2665.0	0.90	1 / 131	23.33	24.23	0.265	33.01	-8.78
60 MHz	256-QAM	2665.0	0.90	1 / 131	21.23	22.13	0.163	33.01	-10.88
		2530.0	0.90	1 / 160	26.00	26.90	0.490	33.01	-6.11
		2593.0	0.90	1 / 160	25.41	26.31	0.427	33.01	-6.70
	π/2 BPSK	2660.0	0.90	1 / 160	25.61	26.51	0.448	33.01	-6.50
		2530.0	0.90	1 / 81	25.58	26.48	0.445	33.01	-6.53
		2593.0	0.90	1 / 81	25.82	26.72	0.470	33.01	-6.29
	QPSK	2660.0	0.90	1 / 81	25.92	26.82	0.480	33.01	-6.19
		2530.0	0.90	1 / 160	24.97	25.87	0.386	33.01	-7.14
64-QAM		2660.0	0.90	1 / 160	23.74	24.64	0.291	33.01	-8.37
80 MHz	256-QAM	2660.0	0.90	1 / 160	21.39	22.29	0.170	33.01	-10.72
		2540.0	0.90	1 / 215	25.64	26.54	0.451	33.01	-6.47
		2593.0	0.90	1 / 215	25.81	26.71	0.469	33.01	-6.30
	π/2 BPSK	2650.0	0.90	1 / 215	25.61	26.51	0.448	33.01	-6.50
		2540.0	0.90	1 / 108	26.00	26.90	0.490	33.01	-6.11
		2593.0	0.90	1 / 215	25.70	26.60	0.457	33.01	-6.41
	QPSK	2650.0	0.90	1 / 215	25.98	26.88	0.488	33.01	-6.13
		16-QAM	2650.0	0.90	1 / 215	25.22	26.12	0.410	33.01
64-QAM		2593.0	0.90	1 / 215	23.45	24.35	0.273	33.01	-8.66
90 MHz	256-QAM	2650.0	0.90	1 / 1	21.12	22.02	0.159	33.01	-10.99
		2545.0	0.90	1 / 243	26.03	26.93	0.493	33.01	-6.08
		2593.0	0.90	1 / 243	25.74	26.64	0.461	33.01	-6.37
	π/2 BPSK	2645.0	0.90	1 / 122	25.78	26.68	0.466	33.01	-6.33
		2545.0	0.90	1 / 122	25.51	26.41	0.438	33.01	-6.60
		2593.0	0.90	1 / 122	25.69	26.59	0.456	33.01	-6.42
	QPSK	2645.0	0.90	1 / 243	25.86	26.76	0.474	33.01	-6.25
		2645.0	0.90	1 / 243	25.25	26.15	0.412	33.01	-6.86
64-QAM		2645.0	0.90	1 / 243	23.82	24.72	0.297	33.01	-8.29
100 MHz	256-QAM	2545.0	0.90	1 / 243	21.21	22.11	0.163	33.01	-10.90
		2550.0	0.90	1 / 271	25.55	26.45	0.442	33.01	-6.56
		2593.0	0.90	1 / 271	25.49	26.39	0.435	33.01	-6.62
	π/2 BPSK	2640.0	0.90	1 / 271	25.73	26.63	0.460	33.01	-6.38
		2550.0	0.90	1 / 271	25.76	26.66	0.463	33.01	-6.35
		2593.0	0.90	1 / 136	25.49	26.39	0.435	33.01	-6.62
	QPSK	2640.0	0.90	1 / 136	26.05	26.95	0.495	33.01	-6.06
		16-QAM	2640.0	0.90	1 / 271	25.38	26.28	0.424	33.01
64-QAM		2640.0	0.90	1 / 1	23.38	24.28	0.268	33.01	-8.73
256-QAM	2640.0	0.90	1 / 1	21.39	22.29	0.169	33.01	-10.72	


Table 7-41. Antenna 1a EIRP Data (NR Band n41 (PC2))

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 210 of 266

NR Band n41 (PC3)

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	2510.0	0.90	1 / 49	25.22	26.12	0.409	33.01	-6.89
		2593.0	0.90	1 / 25	25.25	26.15	0.412	33.01	-6.86
		2680.0	0.90	1 / 25	25.27	26.17	0.414	33.01	-6.84
	QPSK	2510.0	0.90	1 / 49	25.12	26.02	0.400	33.01	-6.99
		2593.0	0.90	1 / 49	25.27	26.17	0.414	33.01	-6.84
		2680.0	0.90	1 / 1	25.29	26.19	0.416	33.01	-6.82
	16-QAM	2680.0	0.90	1 / 1	24.58	25.48	0.353	33.01	-7.53
	64-QAM	2593.0	0.90	1 / 1	22.95	23.85	0.243	33.01	-9.16
30 MHz	π/2 BPSK	2680.0	0.90	1 / 49	20.91	21.81	0.152	33.01	-11.20
		2515.0	0.90	1 / 76	25.65	26.55	0.452	33.01	-6.46
		2593.0	0.90	1 / 76	25.37	26.27	0.423	33.01	-6.74
	QPSK	2675.0	0.90	1 / 76	25.61	26.51	0.448	33.01	-6.50
		2515.0	0.90	1 / 76	25.34	26.24	0.421	33.01	-6.77
		2593.0	0.90	1 / 76	25.36	26.26	0.423	33.01	-6.75
	16-QAM	2675.0	0.90	1 / 39	24.80	25.70	0.371	33.01	-7.31
		2515.0	0.90	1 / 76	23.25	24.15	0.260	33.01	-8.86
40 MHz	π/2 BPSK	2675.0	0.90	1 / 76	20.86	21.76	0.150	33.01	-11.25
		2520.0	0.90	1 / 53	25.39	26.29	0.426	33.01	-6.72
		2593.0	0.90	1 / 1	25.29	26.19	0.416	33.01	-6.82
	QPSK	2670.0	0.90	1 / 104	25.70	26.60	0.457	33.01	-6.41
		2520.0	0.90	1 / 53	25.54	26.44	0.441	33.01	-6.57
		2593.0	0.90	1 / 1	25.49	26.39	0.436	33.01	-6.62
	16-QAM	2670.0	0.90	1 / 104	25.69	26.59	0.456	33.01	-6.42
		2670.0	0.90	1 / 104	24.78	25.68	0.369	33.01	-7.34
50 MHz	π/2 BPSK	2520.0	0.90	1 / 104	23.34	24.24	0.265	33.01	-8.77
		2670.0	0.90	1 / 104	20.83	21.73	0.149	33.01	-11.28
		2525.0	0.90	1 / 66	25.45	26.35	0.432	33.01	-6.66
	QPSK	2593.0	0.90	1 / 1	25.37	26.27	0.424	33.01	-6.74
		2665.0	0.90	1 / 131	25.42	26.32	0.429	33.01	-6.69
		2525.0	0.90	1 / 66	25.16	26.06	0.404	33.01	-6.95
	16-QAM	2593.0	0.90	1 / 131	25.35	26.25	0.422	33.01	-6.76
		2665.0	0.90	1 / 131	25.55	26.45	0.442	33.01	-6.56
60 MHz	π/2 BPSK	2593.0	0.90	1 / 131	24.56	25.46	0.352	33.01	-7.55
		2665.0	0.90	1 / 66	22.82	23.72	0.236	33.01	-9.29
		2665.0	0.90	1 / 66	20.79	21.69	0.147	33.01	-11.32
	QPSK	2530.0	0.90	1 / 160	25.52	26.42	0.439	33.01	-6.59
		2593.0	0.90	1 / 1	25.20	26.10	0.407	33.01	-6.91
		2660.0	0.90	1 / 160	25.37	26.27	0.424	33.01	-6.74
	16-QAM	2530.0	0.90	1 / 160	25.40	26.30	0.427	33.01	-6.71
		2593.0	0.90	1 / 1	25.27	26.17	0.414	33.01	-6.84
80 MHz	π/2 BPSK	2660.0	0.90	1 / 160	25.67	26.57	0.454	33.01	-6.44
		2660.0	0.90	1 / 160	24.63	25.53	0.357	33.01	-7.48
		2530.0	0.90	1 / 81	23.22	24.12	0.258	33.01	-8.89
	QPSK	2660.0	0.90	1 / 160	20.67	21.57	0.144	33.01	-11.44
		2540.0	0.90	1 / 215	25.27	26.17	0.414	33.01	-6.84
		2593.0	0.90	1 / 215	25.34	26.24	0.420	33.01	-6.77
	16-QAM	2650.0	0.90	1 / 215	25.31	26.21	0.418	33.01	-6.80
		2540.0	0.90	1 / 215	25.22	26.12	0.409	33.01	-6.89
90 MHz	π/2 BPSK	2593.0	0.90	1 / 215	25.38	26.28	0.425	33.01	-6.73
		2640.0	0.90	1 / 271	25.30	26.20	0.417	33.01	-6.81
		2550.0	0.90	1 / 136	25.33	26.23	0.420	33.01	-6.78
	QPSK	2593.0	0.90	1 / 271	25.28	26.18	0.415	33.01	-6.83
		2640.0	0.90	1 / 271	25.23	26.13	0.410	33.01	-6.88
		2640.0	0.90	1 / 271	24.71	25.61	0.364	33.01	-7.40
	16-QAM	2550.0	0.90	1 / 271	23.26	24.16	0.261	33.01	-8.85
		2593.0	0.90	1 / 271	20.98	21.88	0.154	33.01	-11.13

Table 7-42. Antenna 1a EIRP Data (NR Band n41 (PC3))

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ULCA - Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	23.4	1.30	24.70	0.295	33.01	-8.31
				21100	2535.0	1	99		21298	2554.8	1	0	23.32	1.30	24.62	0.290	33.01	-8.39
				21350	0	2560.0	1		0	21552	0	2580.2	1	99	23.3	1.30	24.60	0.288
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	21.55	1.30	22.85	0.193	33.01	-10.16
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	20.56	1.30	21.86	0.153	33.01	-11.15
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	20.52	1.30	21.82	0.152	33.01	-11.19
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	18.62	1.30	19.92	0.098	33.01	-13.09

Table 7-43. Antenna 1a EIRP Data (ULCA LTE Band 7)

ULCA - Band 41 (PC2)


Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39968	2529.8	1	0	24.51	0.90	25.41	0.348	33.01	-7.60
				40620	2593.0	1	99		40818	2612.8	1	0	24.6	0.90	25.50	0.355	33.01	-7.51
				41490	2680.0	1	0		41292	2660.2	1	99	24.54	0.90	25.44	0.350	33.01	-7.57
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	23.22	0.90	24.12	0.258	33.01	-8.89
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.26	0.90	23.16	0.207	33.01	-9.85
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.25	0.90	23.15	0.207	33.01	-9.86
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	20.23	0.90	21.13	0.130	33.01	-11.88

Table 7-44. Antenna 1a EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - Band 41 (PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset							
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39790	2510.0	1	99	QPSK	39988	2529.8	1	0	24.53	0.90	25.43	0.349	33.01	-7.58	
				40620	2593.0	1	99		40818	2612.8	1	0	24.52	0.90	25.42	0.348	33.01	-7.59	
			QPSK	41490	2680	100	0	41292	2660.2	100	99	24.59	0.90	25.49	0.354	33.01	-7.52		
				16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	23.22	0.90	24.12	0.258	33.01	-8.89
				64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	22.25	0.90	23.15	0.207	33.01	-9.86
				256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	22.27	0.90	23.17	0.207	33.01	-9.84
				256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	20.27	0.90	21.17	0.131	33.01	-11.84

Table 7-45. Antenna 1a EIRP Data (ULCA LTE Band 41 (PC3))

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7.6 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

Test Overview


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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

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

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Test Setup

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

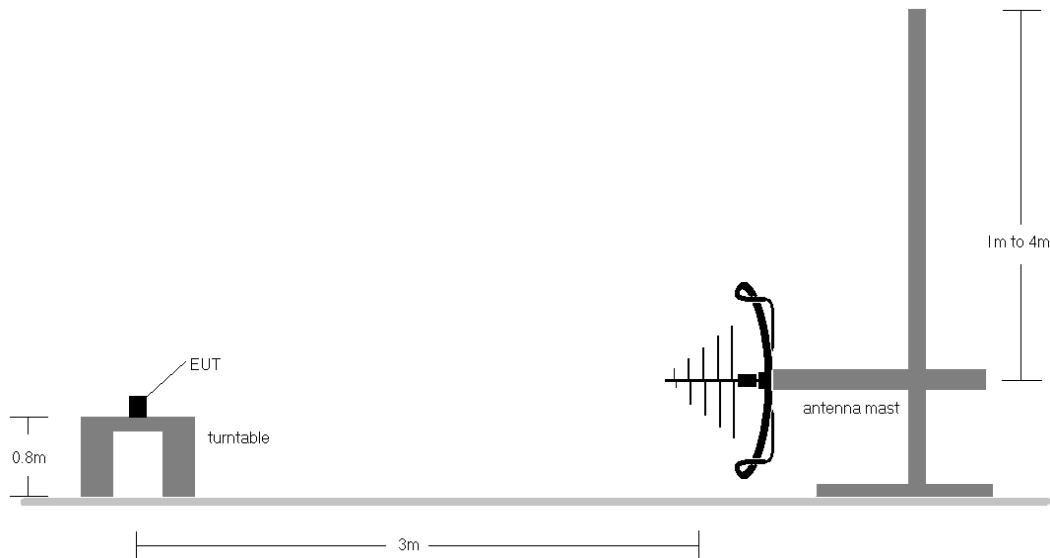


Figure 7-5. Test Instrument & Measurement Setup < 1GHz

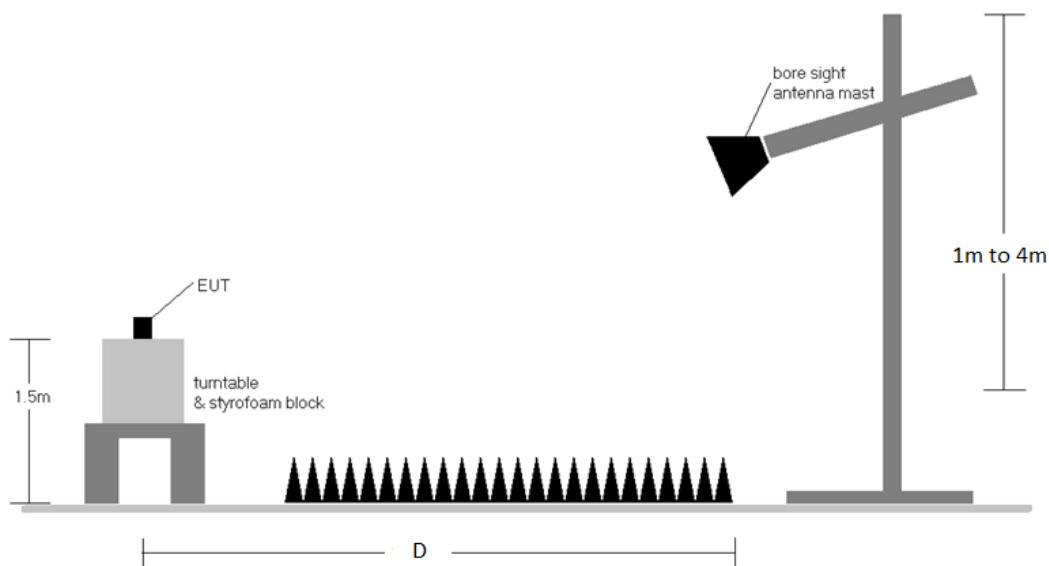




Figure 7-6. Test Instrument & Measurement Setup >1 GHz

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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. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
8. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
9. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
10. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.
11. 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.
12. 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.
13. For LTE Band 30 pre-scans above 1GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and trace averaging.

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7.6.1 Antenna 4 Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	313	217	-76.19	5.99	36.80	-58.46	-40.00	-18.46
6922.5	H	-	-	-79.70	9.27	36.57	-58.69	-40.00	-18.69
9230.0	H	-	-	-80.01	13.88	40.87	-54.39	-40.00	-14.39
11537.5	H	-	-	-80.93	16.90	42.97	-52.29	-40.00	-12.29

Table 7-46. Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	292	217	-75.74	5.89	37.15	-58.10	-40.00	-18.10
6930.0	H	-	-	-79.69	9.31	36.62	-58.64	-40.00	-18.64
9240.0	H	-	-	-80.21	14.09	40.88	-54.38	-40.00	-14.38
11550.0	H	-	-	-80.99	17.15	43.16	-52.10	-40.00	-12.10

Table 7-47. Radiated Spurious Data (LTE Band 30 – Mid Channel)

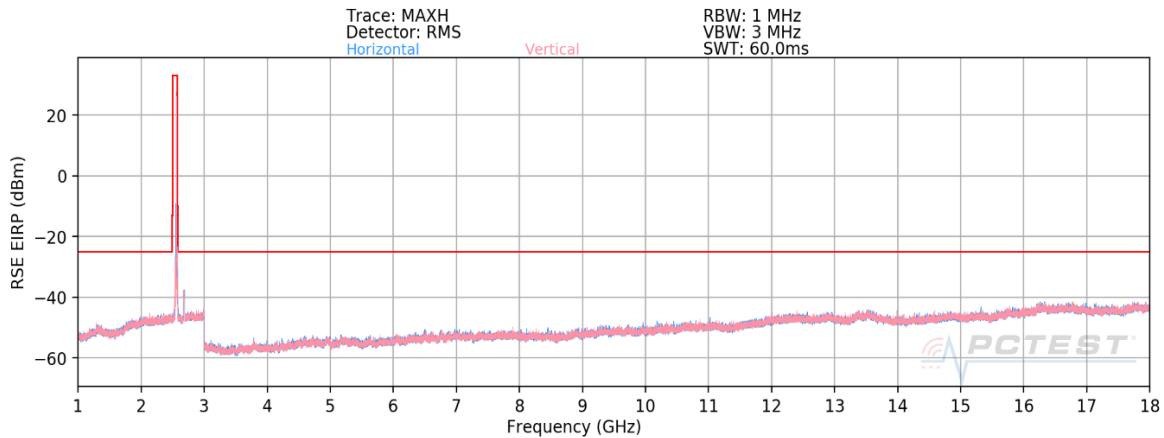
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	102	9	-78.59	5.80	34.21	-61.05	-40.00	-21.05
6937.50	H	-	-	-79.87	9.36	36.49	-58.77	-40.00	-18.77
9250.00	H	-	-	-80.12	14.19	41.07	-54.18	-40.00	-14.18
11562.50	H	-	-	-81.11	17.43	43.32	-51.94	-40.00	-11.94

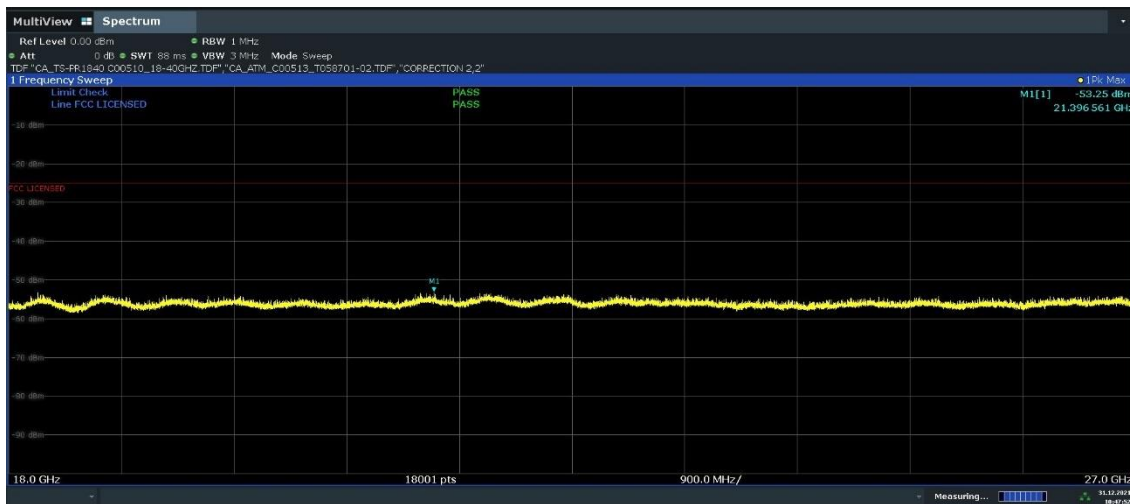
Table 7-48. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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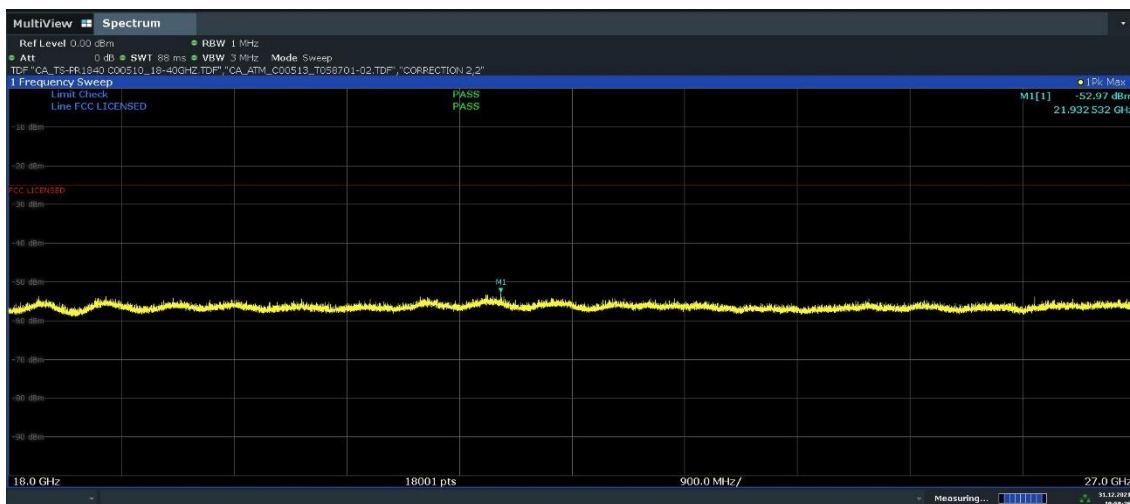
LTE Band 7



Plot 7-297. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)



Plot 7-298. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. H)



Plot 7-299. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. V)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-81.79	8.75	33.96	-61.29	-25.00	-36.29
7530.0	H	-	-	-82.43	11.63	36.20	-59.06	-25.00	-34.06
10040.0	H	-	-	-84.54	15.41	37.87	-57.39	-25.00	-32.39

Table 7-49. Radiated Spurious Data (LTE Band 7 – Low Channel)

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


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-81.30	7.44	33.14	-62.12	-25.00	-37.12
7605.0	H	-	-	-83.08	11.77	35.69	-59.57	-25.00	-34.57
10140.0	H	-	-	-83.64	15.10	38.46	-56.80	-25.00	-31.80

Table 7-50. Radiated Spurious Data (LTE Band 7 – Mid Channel)

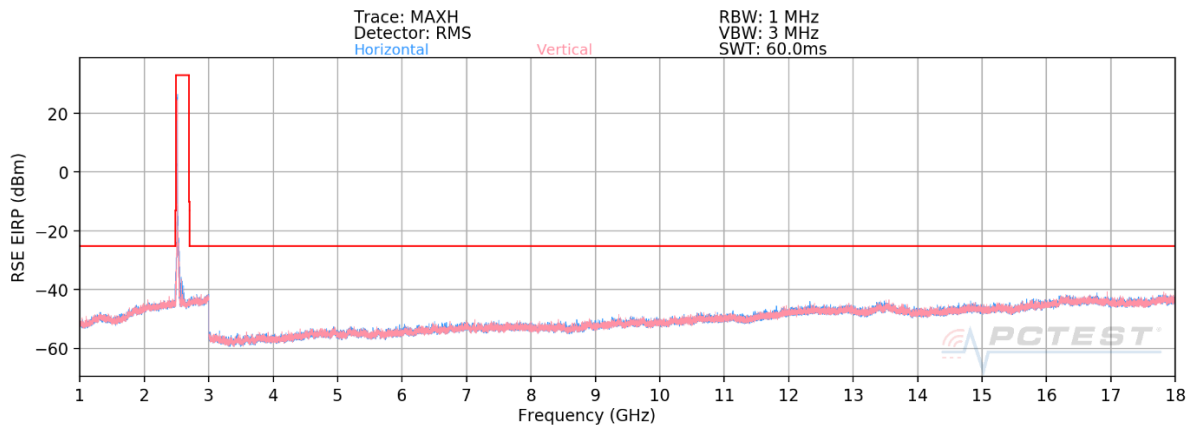
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-82.34	9.55	34.21	-61.04	-25.00	-36.04
7680.00	H	-	-	-83.06	12.49	36.43	-58.83	-25.00	-33.83
10240.00	H	-	-	-84.16	15.62	38.46	-56.80	-25.00	-31.80

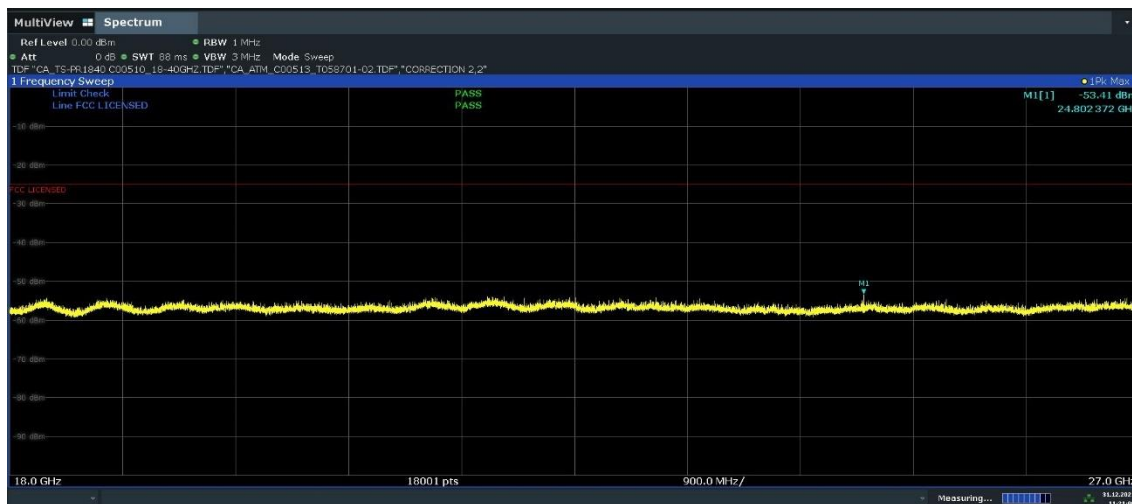
Table 7-51. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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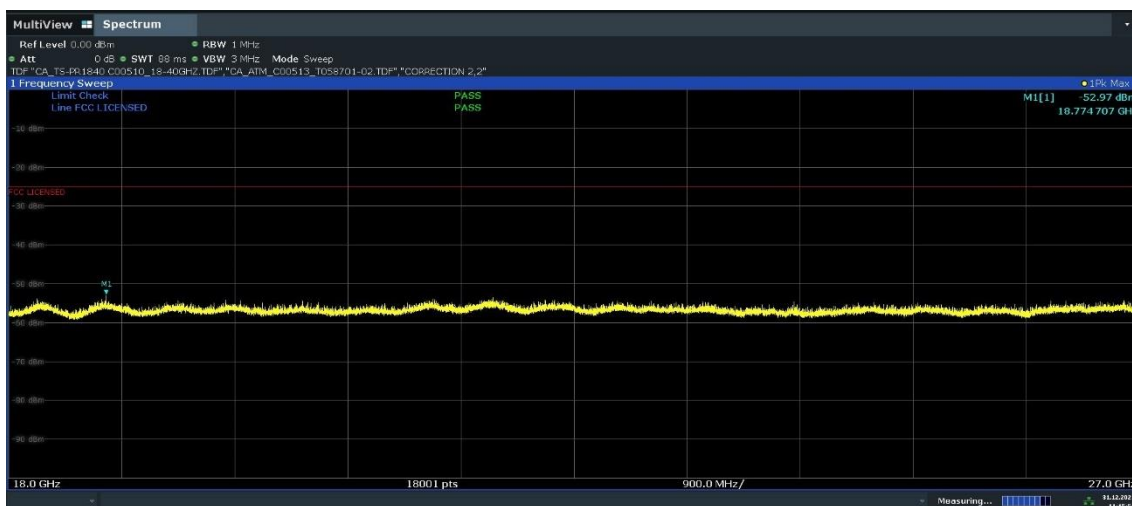
LTE Band 41



Plot 7-300. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 41)



Plot 7-301. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 41, Pol. H)



Plot 7-302. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 41, Pol. V)

FCC ID: BCGA2589	PCTEST Proud to be part of element		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.92	8.68	37.76	-57.50	-25.00	-32.50
7518.0	H	-	-	-77.61	11.64	41.03	-54.23	-25.00	-29.23
10024.0	H	-	-	-83.01	15.42	39.41	-55.85	-25.00	-30.85

Table 7-52. Radiated Spurious Data (LTE Band 41 – Low Channel)

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


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-71.63	11.16	46.53	-48.73	-25.00	-23.73
7779.0	H	-	-	-73.30	12.33	46.03	-49.23	-25.00	-24.23
10372.0	H	-	-	-74.85	15.94	48.09	-47.17	-25.00	-22.17

Table 7-53. Radiated Spurious Data (LTE Band 41 – Mid Channel)

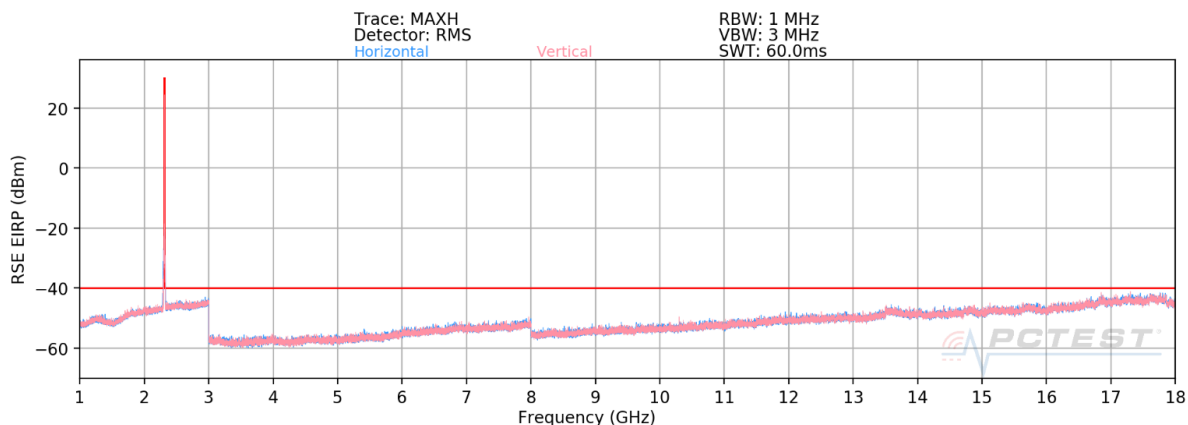
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-72.08	10.28	45.20	-50.06	-25.00	-25.06
8040.0	H	-	-	-75.49	13.27	44.78	-50.48	-25.00	-25.48
10720.0	H	-	-	-75.71	15.68	46.97	-48.29	-25.00	-23.29

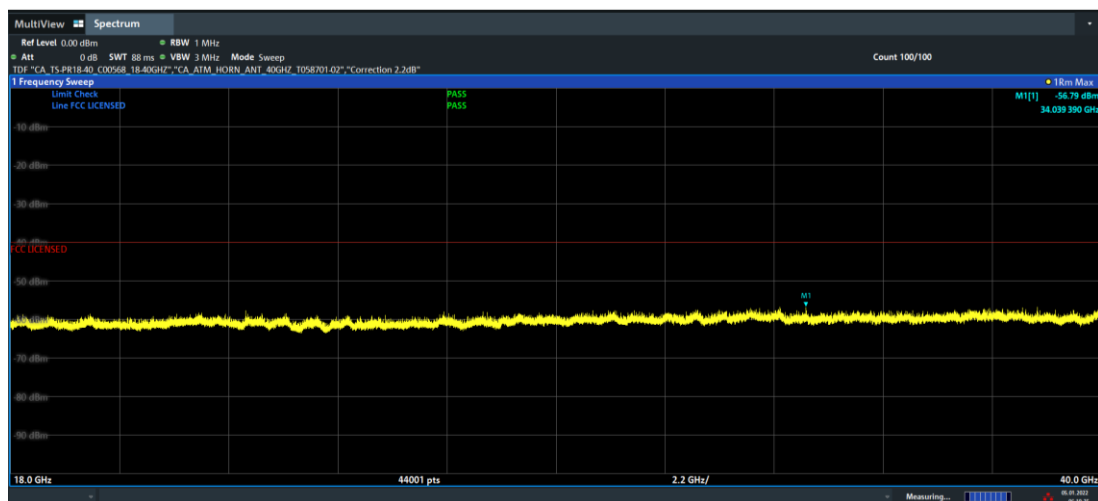
Table 7-54. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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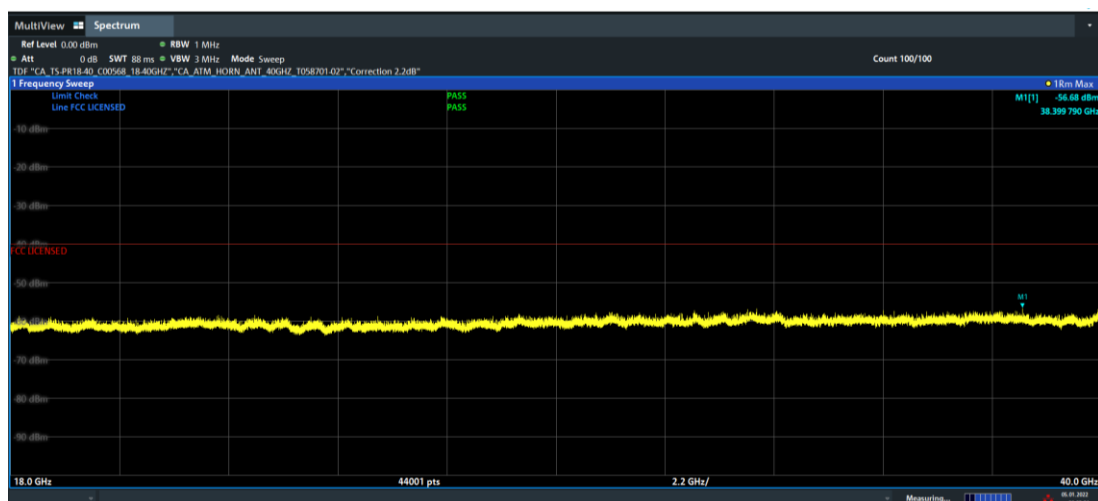
NR Band n30



Plot 7-303. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n30)



Plot 7-304. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n30, Pol. H)



Plot 7-305. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n30, Pol. V)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	312	184	-80.26	6.57	33.31	-61.95	-40.00	-21.95
6922.5	H	-	-	-81.52	10.18	35.66	-59.60	-40.00	-19.60
9230.0	H	-	-	-82.87	12.16	36.29	-58.97	-40.00	-18.97
11537.5	H	-	-	-84.19	16.72	39.53	-55.73	-40.00	-15.73

Table 7-55. Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-80.32	6.51	33.19	-62.07	-40.00	-22.07
6930.0	H	-	-	-81.54	10.13	35.59	-59.66	-40.00	-19.66
9240.0	H	-	-	-83.05	12.30	36.25	-59.00	-40.00	-19.00

Table 7-56. Radiated Spurious Data (NR Band n30 – Mid Channel)

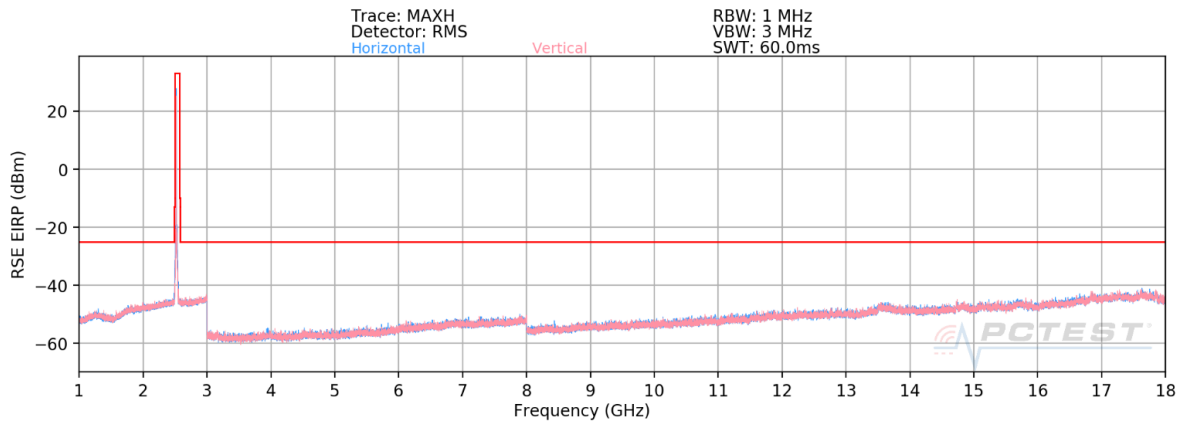
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	H	-	-	-80.41	6.50	33.09	-62.17	-40.00	-22.17
6937.5	H	-	-	-81.82	10.16	35.34	-59.92	-40.00	-19.92
9250.0	H	-	-	-83.21	12.36	36.15	-59.10	-40.00	-19.10

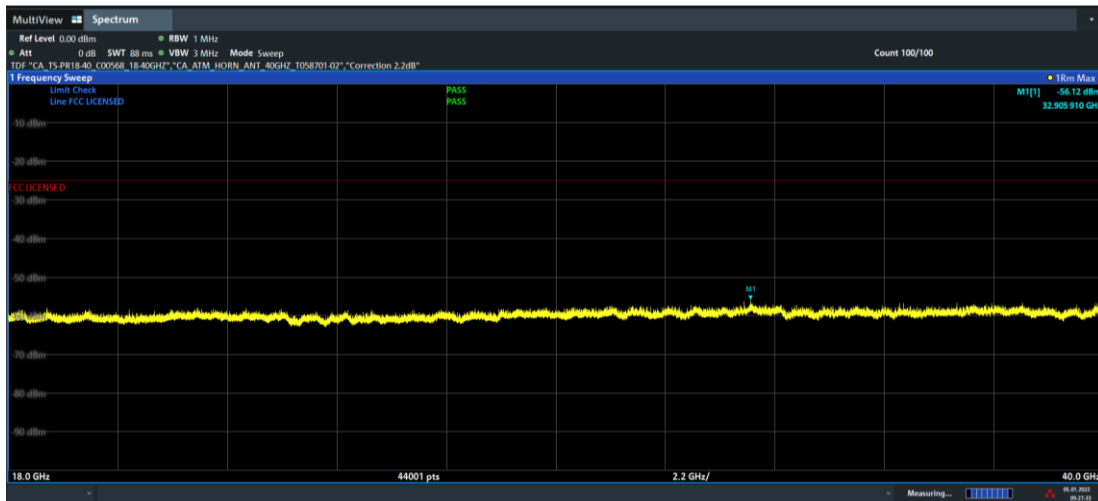
Table 7-57. Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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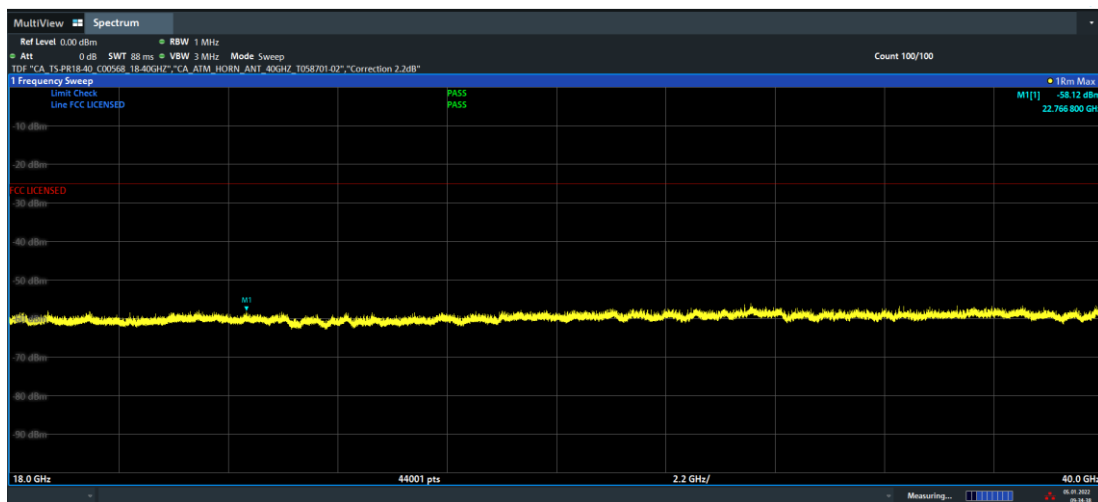
NR Band n7



Plot 7-306. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n7)



Plot 7-307. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n7, Pol. H)



Plot 7-308. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n7, Pol. V)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 223 of 266

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	H	-	-	-81.56	6.57	32.01	-63.25	-25.00	-38.25
7560.0	H	-	-	-82.26	10.18	34.92	-60.34	-25.00	-35.34
10080.0	H	-	-	-84.46	12.16	34.70	-60.56	-25.00	-35.56

Table 7-58. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-81.63	6.51	31.88	-63.38	-25.00	-38.38
7605.0	H	-	-	-82.29	10.13	34.84	-60.41	-25.00	-35.41
10140.0	H	-	-	-84.47	12.30	34.83	-60.42	-25.00	-35.42

Table 7-59. Radiated Spurious Data (NR Band n7 – Mid Channel)

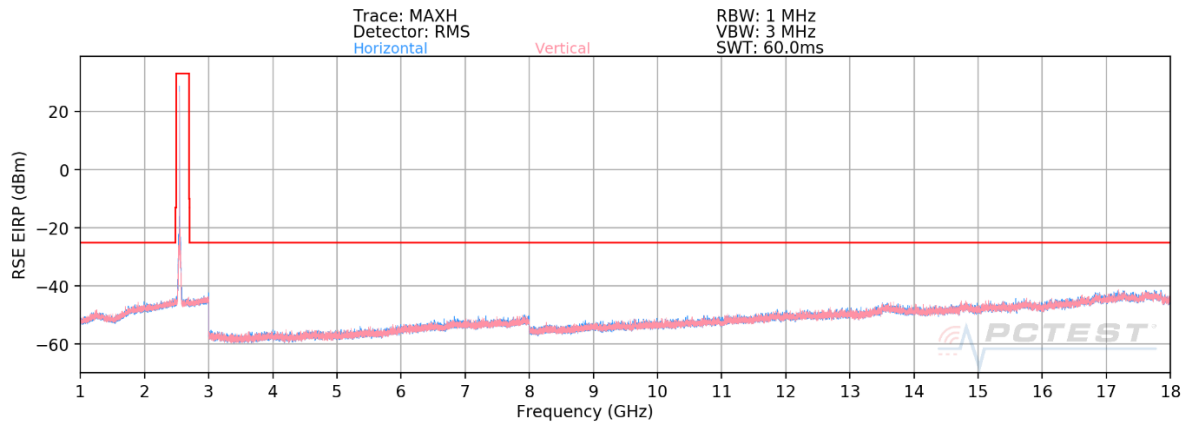
Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-81.60	6.50	31.90	-63.36	-25.00	-38.36
7650.0	H	-	-	-82.32	10.16	34.84	-60.42	-25.00	-35.42
10200.0	H	-	-	-84.32	12.36	35.04	-60.21	-25.00	-35.21

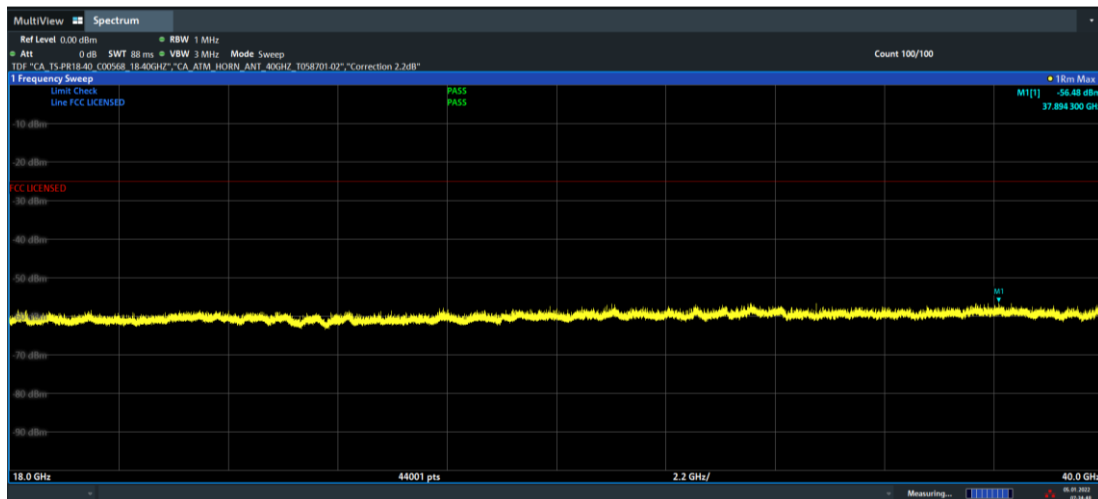
Table 7-60. Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2589	 <small>Proud to be part of element</small>	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 224 of 266

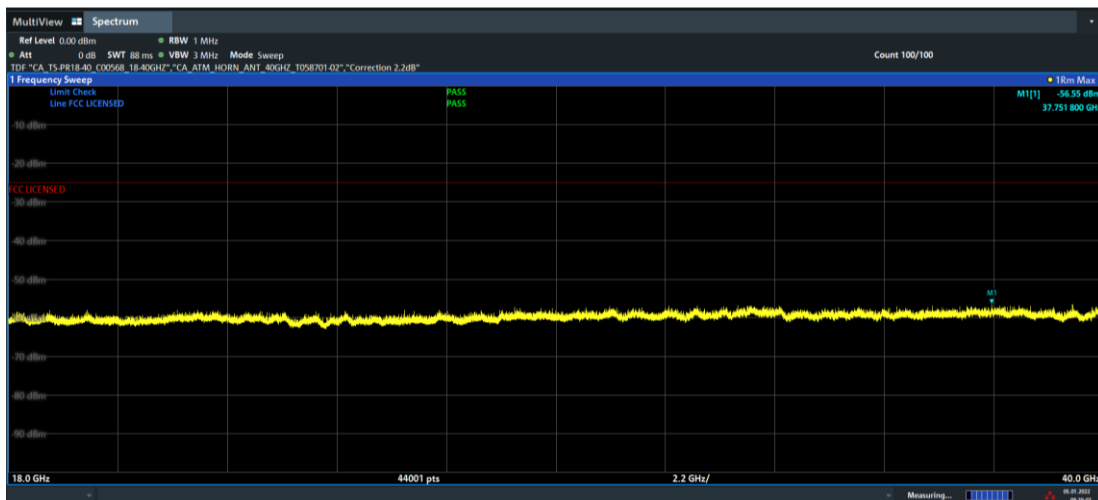
NR Band n41



Plot 7-309. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n41)



Plot 7-310. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n41, Pol. H)



Plot 7-311. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n41, Pol. V)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 225 of 266

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	H	-	-	-81.79	7.23	32.44	-62.81	-25.00	-37.81
7638.0	H	-	-	-81.79	10.89	36.10	-59.15	-25.00	-34.15
10184.0	H	-	-	-85.18	13.62	35.44	-59.82	-25.00	-34.82

Table 7-61. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-81.52	7.14	32.62	-62.64	-25.00	-37.64
7779.0	H	-	-	-81.63	10.48	35.85	-59.41	-25.00	-34.41
10372.0	H	-	-	-85.09	14.29	36.20	-59.06	-25.00	-34.06

Table 7-62. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	H	-	-	-81.32	7.00	32.68	-62.57	-25.00	-37.57
7920.0	H	-	-	-82.84	11.38	35.54	-59.72	-25.00	-34.72
10560.0	H	-	-	-85.59	14.34	35.75	-59.51	-25.00	-34.51

Table 7-63. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Page 226 of 266