

NR Band n66

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	1712.5	0.10	1 / 12	25.00	25.10	0.324	30.00	-4.90	
		1745.0	0.10	1 / 1	24.90	25.00	0.316	30.00	-5.00	
		1777.5	0.10	1 / 23	24.66	24.76	0.299	30.00	-5.24	
	QPSK	1712.5	0.10	1 / 1	24.91	25.01	0.317	30.00	-4.99	
		1745.0	0.10	1 / 12	24.77	24.87	0.307	30.00	-5.13	
		1777.5	0.10	1 / 1	24.81	24.91	0.310	30.00	-5.09	
	16-QAM	1745.0	0.10	1 / 1	24.17	24.27	0.267	30.00	-5.73	
	64-QAM	1777.5	0.10	1 / 23	22.47	22.57	0.181	30.00	-7.43	
	256-QAM	1712.5	0.10	1 / 1	20.05	20.15	0.104	30.00	-9.85	
	π/2 BPSK	1715.0	0.10	1 / 1	25.00	25.10	0.324	30.00	-4.90	
10 MHz		1745.0	0.10	1 / 1	24.57	24.67	0.293	30.00	-5.33	
		1775.0	0.10	1 / 1	24.41	24.51	0.282	30.00	-5.49	
QPSK	1715.0	0.10	1 / 1	24.42	24.52	0.283	30.00	-5.48		
	1745.0	0.10	1 / 25	24.45	24.55	0.285	30.00	-5.45		
	1775.0	0.10	1 / 25	24.65	24.75	0.298	30.00	-5.25		
16-QAM	1715.0	0.10	1 / 25	23.78	23.88	0.244	30.00	-6.12		
64-QAM	1775.0	0.10	1 / 25	22.10	22.20	0.166	30.00	-7.80		
256-QAM	1745.0	0.10	1 / 1	19.75	19.85	0.097	30.00	-10.15		
π/2 BPSK	1717.5	0.10	1 / 77	24.56	24.66	0.292	30.00	-5.34		
	15 MHz		1745.0	0.10	1 / 77	24.87	24.97	0.314	30.00	-5.03
			1772.5	0.10	1 / 37	24.68	24.78	0.300	30.00	-5.22
QPSK	1717.5	0.10	1 / 77	24.92	25.02	0.318	30.00	-4.98		
	1745.0	0.10	1 / 77	25.00	25.10	0.324	30.00	-4.90		
	1772.5	0.10	1 / 37	24.80	24.90	0.309	30.00	-5.10		
16-QAM	1745.0	0.10	1 / 77	24.11	24.21	0.264	30.00	-5.79		
64-QAM	1717.5	0.10	1 / 1	22.54	22.64	0.184	30.00	-7.36		
256-QAM	1772.5	0.10	1 / 77	20.12	20.22	0.105	30.00	-9.78		
π/2 BPSK	1720.0	0.10	1 / 50	24.83	24.93	0.311	30.00	-5.07		
	20 MHz		1745.0	0.10	1 / 1	24.76	24.86	0.306	30.00	-5.14
			1770.0	0.10	1 / 1	24.88	24.98	0.315	30.00	-5.02
QPSK	1720.0	0.10	1 / 50	24.80	24.90	0.309	30.00	-5.10		
	1745.0	0.10	1 / 50	24.96	25.06	0.321	30.00	-4.94		
	1770.0	0.10	1 / 1	25.00	25.10	0.324	30.00	-4.90		
16-QAM	1720.0	0.10	1 / 50	24.19	24.29	0.268	30.00	-5.71		
64-QAM	1720.0	0.10	1 / 104	22.90	23.00	0.200	30.00	-7.00		
256-QAM	1720.0	0.10	1 / 50	20.64	20.74	0.118	30.00	-9.26		
π/2 BPSK	1725.0	0.10	1 / 80	24.96	25.06	0.320	30.00	-4.94		
	30 MHz		1745.0	0.10	1 / 158	24.77	24.87	0.307	30.00	-5.13
			1765.0	0.10	1 / 158	24.54	24.64	0.291	30.00	-5.36
QPSK	1725.0	0.10	1 / 80	25.00	25.10	0.324	30.00	-4.90		
	1745.0	0.10	1 / 80	24.80	24.90	0.309	30.00	-5.10		
	1765.0	0.10	1 / 80	24.84	24.94	0.312	30.00	-5.06		
16-QAM	1745.0	0.10	1 / 1	24.53	24.63	0.291	30.00	-5.37		
64-QAM	1745.0	0.10	1 / 158	22.69	22.79	0.190	30.00	-7.21		
256-QAM	1765.0	0.10	1 / 158	20.23	20.33	0.108	30.00	-9.67		
π/2 BPSK	1730.0	0.10	1 / 1	24.81	24.91	0.310	30.00	-5.09		
	40 MHz		1745.0	0.10	1 / 1	24.69	24.79	0.302	30.00	-5.21
			1760.0	0.10	1 / 214	24.94	25.04	0.319	30.00	-4.96
QPSK	1730.0	0.10	1 / 1	24.87	24.97	0.314	30.00	-5.03		
	1745.0	0.10	1 / 1	24.82	24.92	0.310	30.00	-5.08		
	1760.0	0.10	1 / 1	25.00	25.10	0.324	30.00	-4.90		
16-QAM	1745.0	0.10	1 / 1	24.06	24.16	0.261	30.00	-5.84		
64-QAM	1760.0	0.10	1 / 1	22.45	22.55	0.180	30.00	-7.45		
256-QAM	1745.0	0.10	1 / 1	20.04	20.14	0.103	30.00	-9.86		

Table 7-26. Antenna 3a EIRP Data (NR Band n66)

FCC ID: BCGA2757	element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 260 of 315



Uplink CA LTE Band 66B/C

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 B66	20MHz + 20MHz	QPSK	132072	1720.0	1	99	QPSK	132270	1739.8	1	0	25.18	0.10	25.28	0.337	40.61	-15.33
				132322	1745.0	1	99		132520	1764.8	1	0	25.16	0.10	25.26	0.336	40.61	-15.35
				132572	1770.0	1	0		132374	1750.2	1	99	25.25	0.10	25.35	0.343	40.61	-15.26
			QPSK	132572	1770	100	0	QPSK	132374	1750.2	100	0	23.31	0.10	23.41	0.219	40.61	-17.20
			16-QAM	132572	1770	100	0	16-QAM	132374	1750.2	100	0	22.30	0.10	22.40	0.174	40.61	-18.21
			64-QAM	132572	1770	100	0	64-QAM	132374	1750.2	100	0	22.40	0.10	22.50	0.178	40.61	-18.11
			256-QAM	132572	1770	100	0	256-QAM	132374	1750.2	100	0	20.31	0.10	20.41	0.110	40.61	-20.20

Table 7-27. Antenna 3a EIRP Data (ULCA LTE Band 66)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			Page 261 of 315

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V2.1 11/9/2021

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.92	0.10	25.02	0.318	30.00	-4.98
1732.60	WCDMA1700	24.91	0.10	25.01	0.317	30.00	-4.99
1752.60	WCDMA1700	24.95	0.10	25.05	0.320	30.00	-4.95

Table 7-28. Antenna 3a EIRP Data (WCDMA AWS)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 262 of 315

7.6.5 Antenna 1b – EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
1.4 MHz	QPSK	1710.7	-1.20	1 / 3	23.43	22.23	0.167	30.00	-7.77	
		1745.0	-1.20	1 / 3	23.47	22.27	0.169	30.00	-7.73	
		1779.3	-1.20	1 / 3	23.70	22.50	0.178	30.00	-7.50	
	16-QAM	1710.7	-1.20	1 / 3	22.69	21.49	0.141	30.00	-8.51	
	64-QAM	1779.3	-1.20	1 / 3	22.08	20.88	0.122	30.00	-9.12	
	256-QAM	1745.0	-1.20	1 / 3	19.04	17.84	0.061	30.00	-12.16	
	QPSK	1711.5	-1.20	1 / 0	23.66	22.46	0.176	30.00	-7.54	
3 MHz		1745.0	-1.20	1 / 0	23.70	22.50	0.178	30.00	-7.50	
		1778.5	-1.20	1 / 0	23.63	22.43	0.175	30.00	-7.57	
16-QAM	1711.5	-1.20	1 / 0	22.94	21.74	0.149	30.00	-8.26		
64-QAM	1711.5	-1.20	1 / 0	21.76	20.56	0.114	30.00	-9.44		
256-QAM	1745.0	-1.20	1 / 7	19.51	18.31	0.068	30.00	-11.69		
QPSK	1712.5	-1.20	1 / 12	23.62	22.42	0.175	30.00	-7.58		
	5 MHz		1745.0	-1.20	1 / 12	23.70	22.50	0.178	30.00	-7.50
			1777.5	-1.20	1 / 12	23.41	22.21	0.166	30.00	-7.79
16-QAM	1745.0	-1.20	1 / 12	22.93	21.73	0.149	30.00	-8.27		
64-QAM	1712.5	-1.20	1 / 12	22.06	20.86	0.122	30.00	-9.14		
256-QAM	1712.5	-1.20	1 / 12	19.01	17.81	0.060	30.00	-12.19		
QPSK	1715.0	-1.20	1 / 0	23.66	22.46	0.176	30.00	-7.54		
	10 MHz		1745.0	-1.20	1 / 0	23.68	22.48	0.177	30.00	-7.52
			1775.0	-1.20	1 / 0	23.70	22.50	0.178	30.00	-7.50
16-QAM	1775.0	-1.20	1 / 0	22.97	21.77	0.150	30.00	-8.23		
64-QAM	1775.0	-1.20	1 / 25	22.32	21.12	0.129	30.00	-8.88		
256-QAM	1775.0	-1.20	1 / 49	19.27	18.07	0.064	30.00	-11.93		
QPSK	1717.5	-1.20	1 / 37	23.70	22.50	0.178	30.00	-7.50		
	15 MHz		1745.0	-1.20	1 / 37	23.59	22.39	0.173	30.00	-7.61
			1772.5	-1.20	1 / 37	23.54	22.34	0.171	30.00	-7.66
16-QAM	1717.5	-1.20	1 / 37	22.79	21.59	0.144	30.00	-8.41		
	1772.5	-1.20	1 / 37	22.79	21.59	0.144	30.00	-8.41		
	64-QAM	1772.5	-1.20	1 / 37	22.26	21.06	0.128	30.00	-8.94	
20 MHz	256-QAM	1745.0	-1.20	1 / 37	19.20	18.00	0.063	30.00	-12.00	
	QPSK	1720.0	-1.20	1 / 50	23.70	22.50	0.178	30.00	-7.50	
		1745.0	-1.20	1 / 0	23.44	22.24	0.167	30.00	-7.76	
		1770.0	-1.20	1 / 0	23.66	22.46	0.176	30.00	-7.54	
	16-QAM	1770.0	-1.20	1 / 0	22.93	21.73	0.149	30.00	-8.27	
	64-QAM	1745.0	-1.20	1 / 50	22.44	21.24	0.133	30.00	-8.76	
	256-QAM	1745.0	-1.20	1 / 50	19.21	18.01	0.063	30.00	-11.99	

Table 7-29. Antenna 1b EIRP Data (LTE Band 66)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device	Page 263 of 315	

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
1.4 MHz	QPSK	1710.7	-1.20	1 / 3	23.70	22.50	0.178	30.00	-7.50	
		1732.5	-1.20	1 / 3	23.43	22.23	0.167	30.00	-7.77	
		1754.3	-1.20	1 / 0	23.38	22.18	0.165	30.00	-7.82	
	16-QAM	1710.7	-1.20	1 / 3	22.70	21.50	0.141	30.00	-8.50	
	64-QAM	1710.7	-1.20	1 / 3	22.09	20.89	0.123	30.00	-9.11	
	256-QAM	1732.5	-1.20	1 / 5	19.00	17.80	0.060	30.00	-12.20	
	QPSK	1711.5	-1.20	1 / 14	23.67	22.47	0.177	30.00	-7.53	
3 MHz		1732.5	-1.20	1 / 14	23.70	22.50	0.178	30.00	-7.50	
		1753.5	-1.20	1 / 14	23.65	22.45	0.176	30.00	-7.55	
16-QAM	1753.5	-1.20	1 / 7	23.05	21.85	0.153	30.00	-8.15		
64-QAM	1753.5	-1.20	1 / 14	22.40	21.20	0.132	30.00	-8.80		
256-QAM	1753.5	-1.20	1 / 14	19.31	18.11	0.065	30.00	-11.89		
QPSK	1712.5	-1.20	1 / 12	23.69	22.49	0.177	30.00	-7.51		
	1732.5	-1.20	1 / 24	23.70	22.50	0.178	30.00	-7.50		
	5 MHz		1752.5	-1.20	1 / 24	23.50	22.30	0.170	30.00	-7.70
16-QAM	1732.5	-1.20	1 / 12	23.02	21.82	0.152	30.00	-8.18		
64-QAM	1712.5	-1.20	1 / 12	22.09	20.89	0.123	30.00	-9.11		
256-QAM	1712.5	-1.20	1 / 24	19.08	17.88	0.061	30.00	-12.12		
QPSK	1715.0	-1.20	1 / 25	23.61	22.41	0.174	30.00	-7.59		
	1732.5	-1.20	1 / 49	23.70	22.50	0.178	30.00	-7.50		
	1750.0	-1.20	1 / 49	23.67	22.47	0.177	30.00	-7.53		
10 MHz	16-QAM	1750.0	-1.20	1 / 49	23.03	21.83	0.152	30.00	-8.17	
	64-QAM	1750.0	-1.20	1 / 49	22.32	21.12	0.129	30.00	-8.88	
	256-QAM	1750.0	-1.20	1 / 49	19.29	18.09	0.064	30.00	-11.91	
	QPSK	1717.5	-1.20	1 / 0	23.70	22.50	0.178	30.00	-7.50	
		1732.5	-1.20	1 / 0	23.66	22.46	0.176	30.00	-7.54	
		1747.5	-1.20	1 / 0	23.57	22.37	0.173	30.00	-7.63	
15 MHz	16-QAM	1747.5	-1.20	1 / 0	22.87	21.67	0.147	30.00	-8.33	
	64-QAM	1747.5	-1.20	1 / 0	22.24	21.04	0.127	30.00	-8.96	
	256-QAM	1747.5	-1.20	1 / 0	19.20	18.00	0.063	30.00	-12.00	
	QPSK	1720.0	-1.20	1 / 0	23.68	22.48	0.177	30.00	-7.52	
		1732.5	-1.20	1 / 0	23.46	22.26	0.168	30.00	-7.74	
		1745.0	-1.20	1 / 0	23.70	22.50	0.178	30.00	-7.50	
20 MHz	16-QAM	1745.0	-1.20	1 / 0	23.04	21.84	0.153	30.00	-8.16	
	64-QAM	1732.5	-1.20	1 / 99	22.46	21.26	0.134	30.00	-8.74	
	256-QAM	1732.5	-1.20	1 / 99	19.14	17.94	0.062	30.00	-12.06	

Table 7-30. Antenna 1b EIRP Data (LTE Band 4)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device	Page 264 of 315	

NR Band n66

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	1712.5	-1.20	1 / 12	23.51	22.31	0.170	30.00	-7.69	
		1745.0	-1.20	1 / 23	23.70	22.50	0.178	30.00	-7.50	
		1777.5	-1.20	1 / 23	23.32	22.12	0.163	30.00	-7.88	
	QPSK	1712.5	-1.20	1 / 1	23.53	22.33	0.171	30.00	-7.67	
		1745.0	-1.20	1 / 1	23.14	21.94	0.156	30.00	-8.06	
		1777.5	-1.20	1 / 23	23.26	22.06	0.161	30.00	-7.94	
	16-QAM	1712.5	-1.20	1 / 1	22.67	21.47	0.140	30.00	-8.53	
	64-QAM	1712.5	-1.20	1 / 12	21.42	20.22	0.105	30.00	-9.78	
	256-QAM	1712.5	-1.20	1 / 1	18.68	17.48	0.056	30.00	-12.52	
	π/2 BPSK	1715.0	-1.20	1 / 1	23.40	22.20	0.166	30.00	-7.80	
10 MHz		1745.0	-1.20	1 / 50	23.37	22.17	0.165	30.00	-7.83	
		1775.0	-1.20	1 / 50	23.59	22.39	0.173	30.00	-7.61	
QPSK	1715.0	-1.20	1 / 50	23.64	22.44	0.176	30.00	-7.56		
	1745.0	-1.20	1 / 50	23.70	22.50	0.178	30.00	-7.50		
	1775.0	-1.20	1 / 25	23.40	22.20	0.166	30.00	-7.80		
16-QAM	1775.0	-1.20	1 / 25	22.93	21.73	0.149	30.00	-8.27		
64-QAM	1745.0	-1.20	1 / 25	21.37	20.17	0.104	30.00	-9.83		
256-QAM	1775.0	-1.20	1 / 1	19.06	17.86	0.061	30.00	-12.14		
15 MHz	π/2 BPSK	1717.5	-1.20	1 / 1	23.62	22.42	0.174	30.00	-7.58	
		1745.0	-1.20	1 / 77	23.67	22.47	0.177	30.00	-7.53	
		1772.5	-1.20	1 / 77	23.56	22.36	0.172	30.00	-7.64	
	QPSK	1717.5	-1.20	1 / 1	23.65	22.45	0.176	30.00	-7.55	
		1745.0	-1.20	1 / 37	23.33	22.13	0.163	30.00	-7.87	
		1772.5	-1.20	1 / 1	23.70	22.50	0.178	30.00	-7.50	
	16-QAM	1745.0	-1.20	1 / 37	22.71	21.51	0.141	30.00	-8.49	
	64-QAM	1745.0	-1.20	1 / 1	21.44	20.24	0.106	30.00	-9.76	
	256-QAM	1717.5	-1.20	1 / 1	19.06	17.86	0.061	30.00	-12.14	
20 MHz	π/2 BPSK	1720.0	-1.20	1 / 104	23.70	22.50	0.178	30.00	-7.50	
		1745.0	-1.20	1 / 104	23.36	22.16	0.164	30.00	-7.84	
		1770.0	-1.20	1 / 1	23.56	22.36	0.172	30.00	-7.64	
	QPSK	1720.0	-1.20	1 / 1	23.36	22.16	0.164	30.00	-7.84	
		1745.0	-1.20	1 / 1	23.57	22.37	0.172	30.00	-7.63	
		1770.0	-1.20	1 / 50	23.45	22.25	0.168	30.00	-7.75	
	16-QAM	1770.0	-1.20	1 / 50	22.84	21.64	0.146	30.00	-8.36	
	64-QAM	1770.0	-1.20	1 / 1	21.29	20.09	0.102	30.00	-9.91	
	256-QAM	1745.0	-1.20	1 / 50	18.69	17.49	0.056	30.00	-12.51	
30 MHz	π/2 BPSK	1725.0	-1.20	1 / 1	23.56	22.36	0.172	30.00	-7.64	
		1745.0	-1.20	1 / 158	23.39	22.19	0.166	30.00	-7.81	
		1765.0	-1.20	1 / 158	23.31	22.11	0.162	30.00	-7.89	
	QPSK	1725.0	-1.20	1 / 158	23.40	22.20	0.166	30.00	-7.80	
		1745.0	-1.20	1 / 158	23.70	22.50	0.178	30.00	-7.50	
		1765.0	-1.20	1 / 158	23.45	22.25	0.168	30.00	-7.75	
	16-QAM	1725.0	-1.20	1 / 1	22.61	21.41	0.138	30.00	-8.59	
	64-QAM	1725.0	-1.20	1 / 1	21.50	20.30	0.107	30.00	-9.70	
	256-QAM	1765.0	-1.20	1 / 1	19.00	17.80	0.060	30.00	-12.20	
40 MHz	π/2 BPSK	1730.0	-1.20	1 / 214	23.16	21.96	0.157	30.00	-8.04	
		1745.0	-1.20	1 / 1	23.42	22.22	0.167	30.00	-7.78	
		1760.0	-1.20	1 / 108	23.47	22.27	0.169	30.00	-7.73	
	QPSK	1730.0	-1.20	1 / 1	23.07	21.87	0.154	30.00	-8.13	
		1745.0	-1.20	1 / 108	23.55	22.35	0.172	30.00	-7.65	
		1760.0	-1.20	1 / 1	23.70	22.50	0.178	30.00	-7.50	
	16-QAM	1745.0	-1.20	1 / 108	22.51	21.31	0.135	30.00	-8.69	
	64-QAM	1730.0	-1.20	1 / 1	21.22	20.02	0.100	30.00	-9.98	
	256-QAM	1745.0	-1.20	1 / 1	18.85	17.65	0.058	30.00	-12.35	

Table 7-31. Antenna 1b EIRP Data (NR Band n66)

FCC ID: BCGA2757	element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 265 of 315



Uplink CA LTE Band 66B/C

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 B66	20MHz + 20MHz	QPSK	132072	1720.0	1	99	QPSK	132270	1739.8	1	0	23.86	-1.20	22.66	0.185	40.61	-17.95
				132322	1745.0	1	99		132520	1764.8	1	0	23.90	-1.20	22.70	0.186	40.61	-17.91
				132572	1770.0	1	0		132374	1750.2	1	99	23.75	-1.20	22.55	0.180	40.61	-18.06
			QPSK	132322	1745	100	0	QPSK	132520	1764.8	100	0	22.06	-1.20	20.86	0.122	40.61	-19.75
			16-QAM	132322	1745	100	0	16-QAM	132520	1764.8	100	0	21.03	-1.20	19.83	0.096	40.61	-20.78
			64-QAM	132322	1745	100	0	64-QAM	132520	1764.8	100	0	21.10	-1.20	19.90	0.098	40.61	-20.71
			256-QAM	132322	1745	100	0	256-QAM	132520	1764.8	100	0	19.18	-1.20	17.98	0.063	40.61	-22.63

Table 7-32. Antenna 1b EIRP Data (ULCA LTE Band 66)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			Page 266 of 315

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V2.1 11/9/2021

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.60	-1.20	22.40	0.174	30.00	-7.60
1732.60	WCDMA1700	23.62	-1.20	22.42	0.175	30.00	-7.58
1752.60	WCDMA1700	23.65	-1.20	22.45	0.176	30.00	-7.55

Table 7-33. Antenna 1b EIRP Data (WCDMA AWS)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 267 of 315

7.7 Radiated Spurious Emissions

§2.1053, §27.53(f)

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

ANSI C63.26 2015, TIA-603-E-2016 – Section 2.2.12

Test Settings

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

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device	Page 268 of 315

Test Setup

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

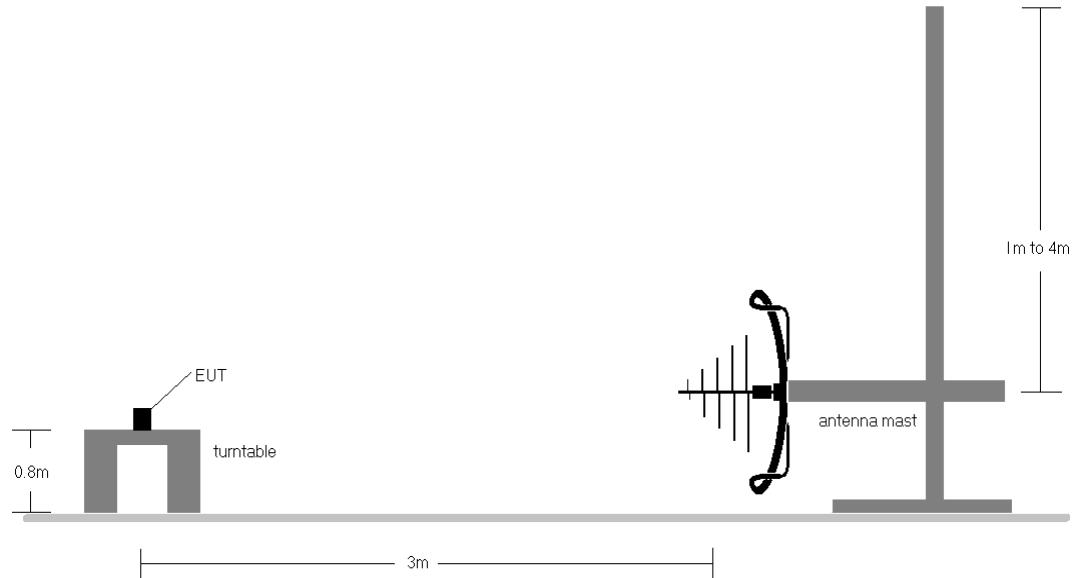


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

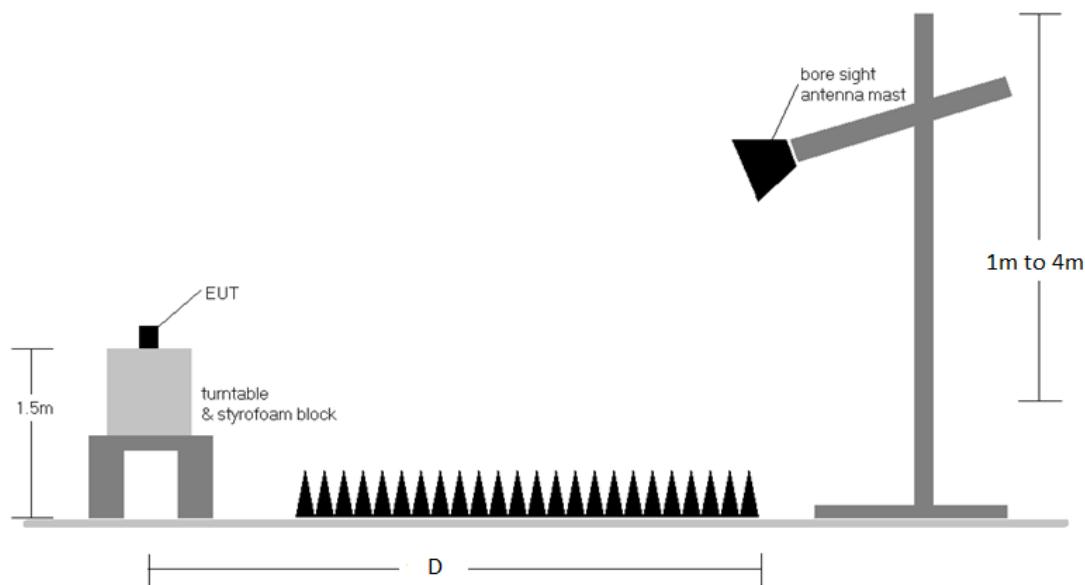


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 269 of 315

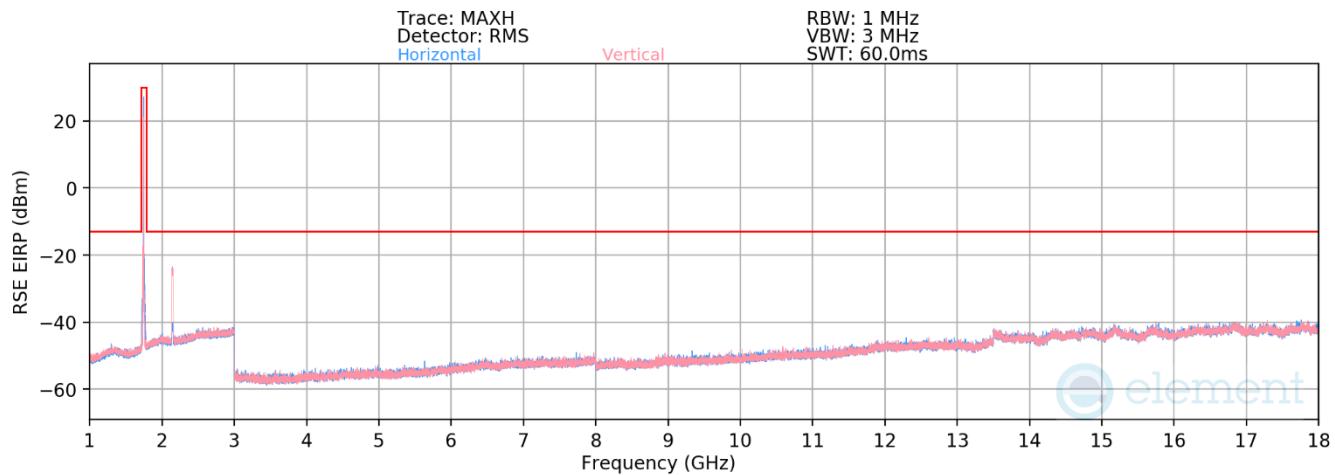
Test Notes

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 EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. 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.
9. 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.

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 270 of 315

7.7.1 Antenna 4 – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-411. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 66/4)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 271 of 315

Bandwidth (MHz):	20									
Frequency (MHz):	1720.0									
RB / Offset:	1 / 50									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	341	213	-77.59	4.93	34.34	-60.92	-13.00	-47.92
5160.0	V	-	-	-79.71	7.51	34.80	-60.46	-13.00	-47.46
6880.0	V	-	-	-80.16	10.24	37.08	-58.18	-13.00	-45.18
8600.0	V	-	-	-81.27	11.53	37.26	-58.00	-13.00	-45.00

Table 7-34. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20									
Frequency (MHz):	1745.0									
RB / Offset:	1 / 50									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	329	216	-78.39	5.40	34.01	-61.25	-13.00	-48.25
5235.0	V	-	-	-79.44	7.36	34.92	-60.33	-13.00	-47.33
6980.0	V	-	-	-80.03	9.92	36.89	-58.37	-13.00	-45.37
8725.0	V	-	-	-81.08	11.60	37.52	-57.73	-13.00	-44.73

Table 7-35. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

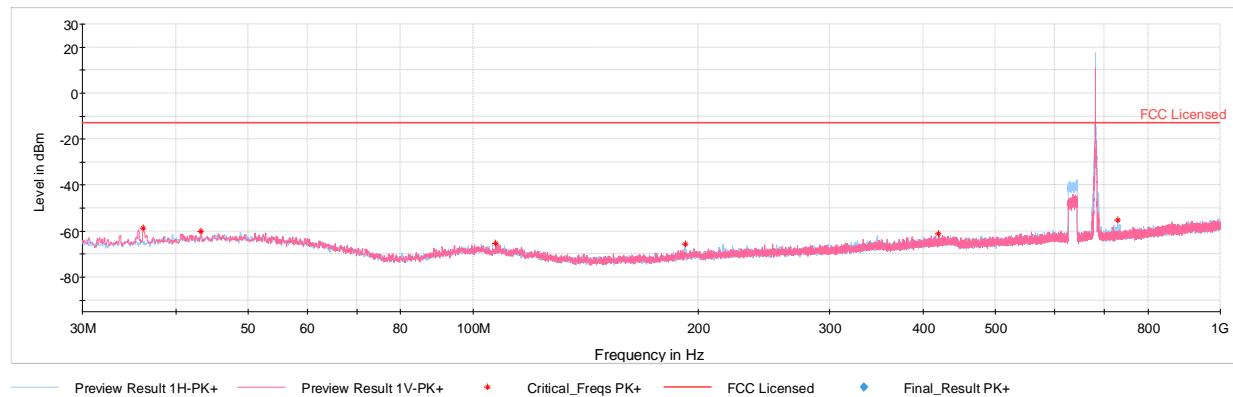
Bandwidth (MHz):	20									
Frequency (MHz):	1770.0									
RB / Offset:	1 / 50									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	-	-	-	-78.89	5.64	33.75	-61.51	-13.00	-48.51
5310.0	-	-	-	-79.46	7.58	35.12	-60.14	-13.00	-47.14
7080.0	-	-	-	-80.31	10.37	37.06	-58.20	-13.00	-45.20

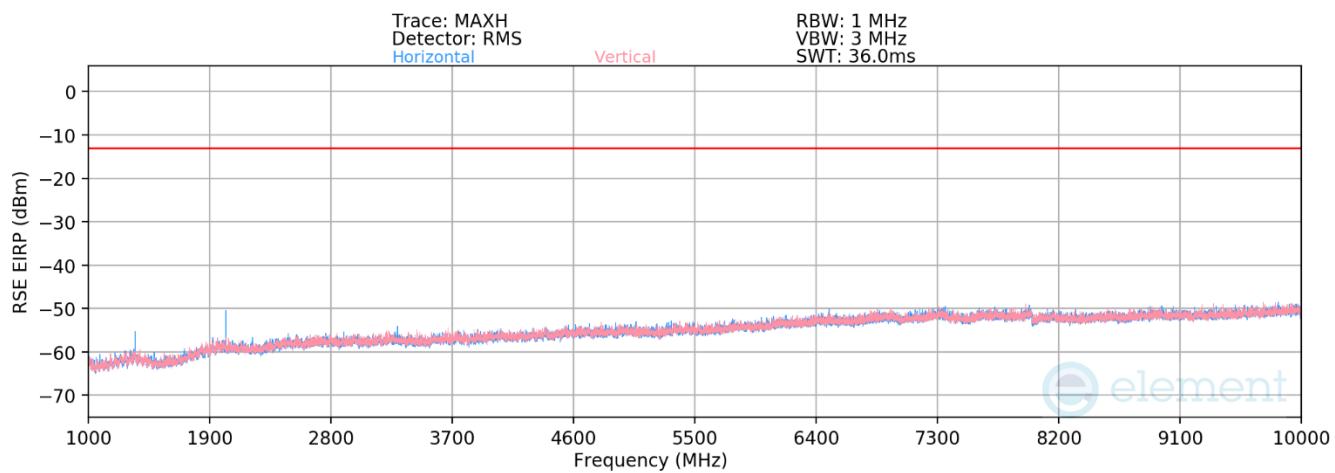
Table 7-36. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					

LTE Band 71



Plot 7-412. Antenna 4 Radiated Spurious Emission below 18GHz (LTE Band 71)



Plot 7-413. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 71)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 273 of 315

Bandwidth (MHz):	20								
Frequency (MHz):	673.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	199	51	-74.47	-1.18	31.35	-63.91	-13.00	-50.91
2019.0	H	219	37	-73.19	1.78	35.59	-59.67	-13.00	-46.67
2692.0	H	-	-	-78.62	3.60	31.98	-63.28	-13.00	-50.28
3365.0	H	-	-	-79.17	4.68	32.51	-62.75	-13.00	-49.75
4038.0	H	-	-	-79.24	5.84	33.60	-61.66	-13.00	-48.66

Table 7-37. Antenna 4 Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	680.5								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	-	-	-76.61	-1.34	29.05	-66.21	-13.00	-53.21
2041.5	H	250	28	-74.66	1.60	33.94	-61.32	-13.00	-48.32
2722.0	H	-	-	-78.59	3.87	32.28	-62.98	-13.00	-49.98
3402.5	H	-	-	-78.93	4.59	32.66	-62.60	-13.00	-49.60
4083.0	H	-	-	-79.23	5.94	33.71	-61.54	-13.00	-48.54

Table 7-38. Antenna 4 Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	688.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	-	-	-76.52	-1.32	29.16	-66.09	-13.00	-53.09
2064.0	H	178	47	-75.43	1.73	33.30	-61.96	-13.00	-48.96
2752.0	H	-	-	-78.55	3.70	32.15	-63.11	-13.00	-50.11
3440.0	H	-	-	-78.80	4.16	32.36	-62.90	-13.00	-49.90
4128.0	H	-	-	-79.34	5.79	33.45	-61.81	-13.00	-48.81

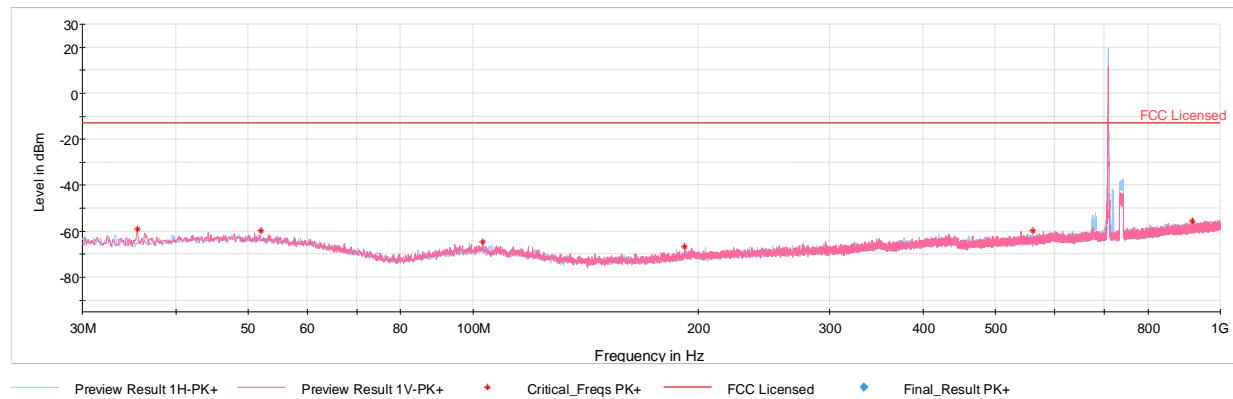
Table 7-39. Antenna 4 Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device						

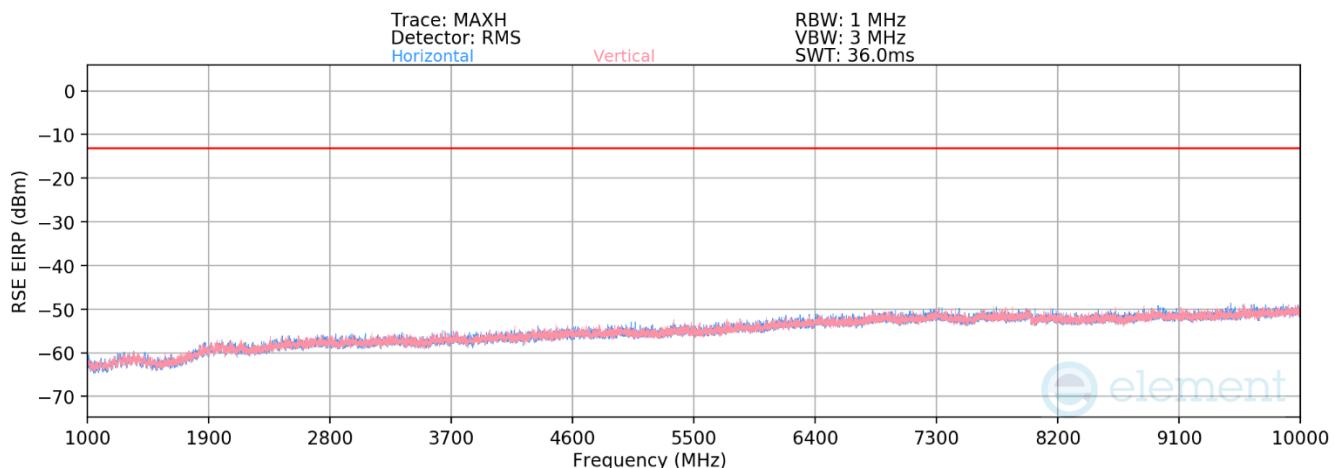
V2.1 11/9/2021

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LTE Band 12/17



Plot 7-414. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-415. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 275 of 315

Bandwidth (MHz):	10									
Frequency (MHz):	704.0									
RB / Offset:	1 / 24									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	H	-	-	-76.98	-1.65	28.37	-66.89	-13.00	-53.89
2112.0	H	-	-	-77.68	1.70	31.02	-64.24	-13.00	-51.24
2816.0	H	-	-	-78.17	3.33	32.16	-63.10	-13.00	-50.10

Table 7-40. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10									
Frequency (MHz):	707.5									
RB / Offset:	1 / 24									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	244	331	-75.51	-1.60	29.89	-65.37	-13.00	-52.37
2122.5	H	-	-	-78.00	1.72	30.72	-64.54	-13.00	-51.54
2830.0	H	-	-	-78.30	3.24	31.94	-63.32	-13.00	-50.32
3537.5	H	-	-	-78.85	4.48	32.63	-62.63	-13.00	-49.63

Table 7-41. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

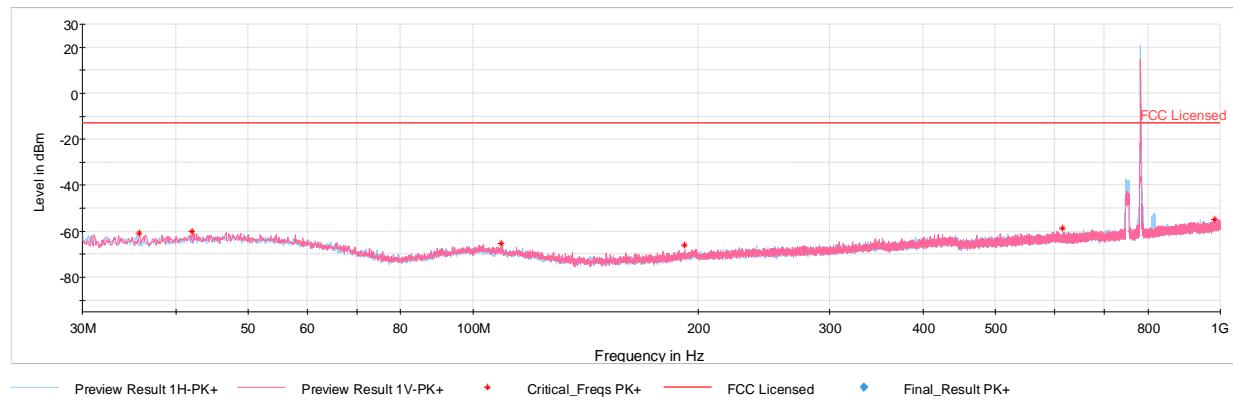
Bandwidth (MHz):	10									
Frequency (MHz):	711.0									
RB / Offset:	1 / 24									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	182	138	-75.47	-1.54	29.99	-65.27	-13.00	-52.27
2133.0	H	-	-	-77.65	1.87	31.22	-64.04	-13.00	-51.04
2844.0	H	-	-	-78.32	3.07	31.75	-63.51	-13.00	-50.51
3555.0	H	-	-	-78.82	4.81	32.99	-62.27	-13.00	-49.27

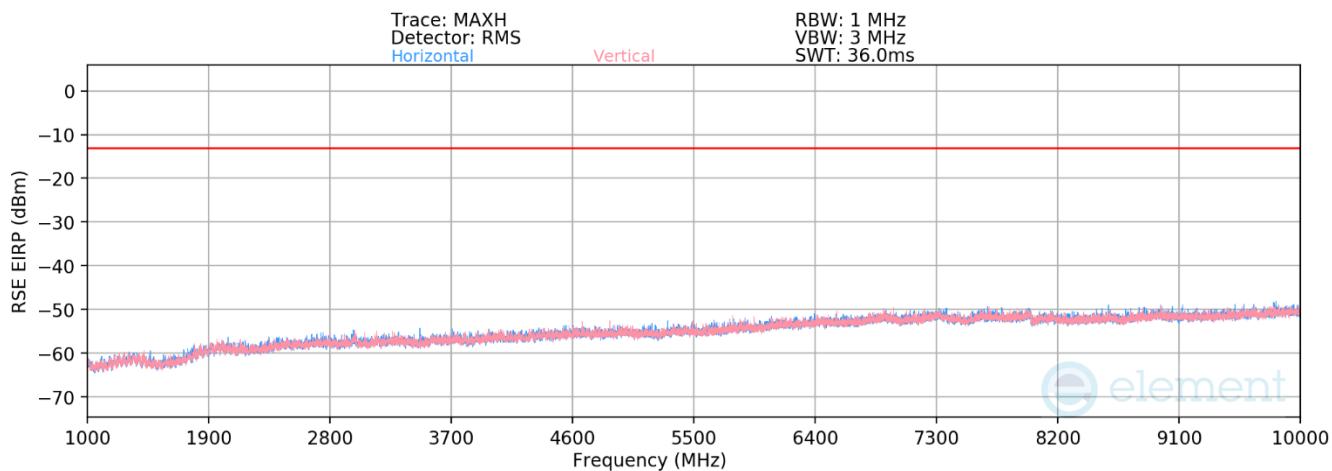
Table 7-42. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					

LTE Band 13



Plot 7-416. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-417. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 277 of 315

Bandwidth (MHz):	5								
Frequency (MHz):	779.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	-	-	-77.79	-3.05	26.16	-69.10	-40.00	-29.10
2338.5	H	-	-	-78.89	1.50	29.61	-65.65	-13.00	-52.65
3118.0	H	-	-	-79.51	3.21	30.70	-64.56	-13.00	-51.56

Table 7-43. Antenna 4 Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	782.0								
RB / Offset:	2 / 24								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	H	344	13	-75.86	-2.10	29.04	-66.21	-40.00	-26.21
2346.0	H	-	-	-77.97	2.00	31.03	-64.23	-13.00	-51.23
3128.0	H	-	-	-78.46	3.79	32.33	-62.93	-13.00	-49.93
3910.0	H	-	-	-79.00	5.13	33.13	-62.13	-13.00	-49.13

Table 7-44. Antenna 4 Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5								
Frequency (MHz):	784.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	-	-	-77.86	-3.06	26.08	-69.17	-40.00	-29.17
2353.5	H	-	-	-78.64	1.39	29.75	-65.51	-13.00	-52.51
3138.0	H	-	-	-79.80	3.31	30.51	-64.74	-13.00	-51.74

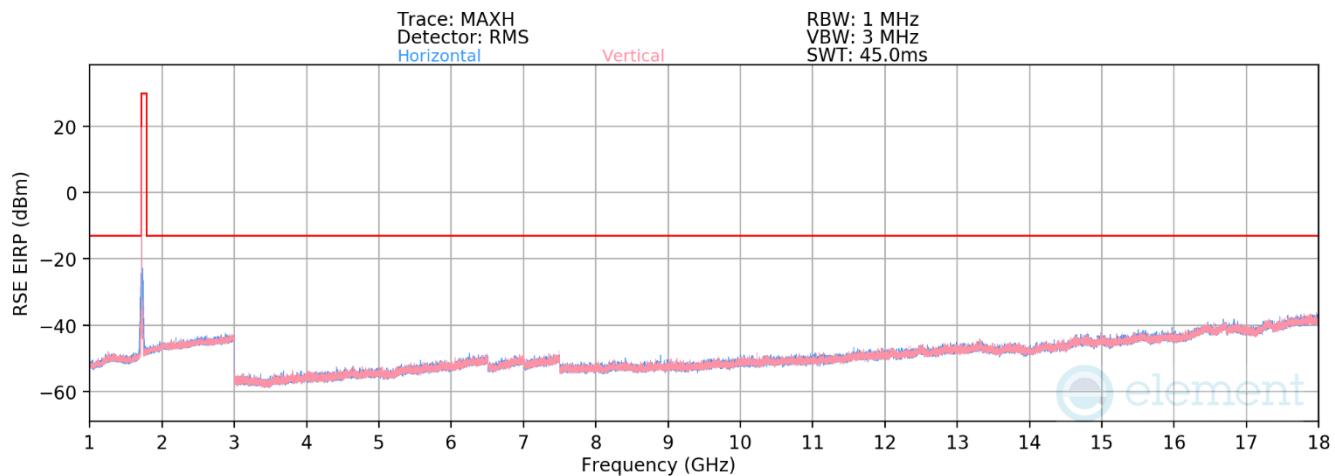
Table 7-45. Antenna 4 Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

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NR Band n66



Plot 7-418. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n66)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 279 of 315

Bandwidth (MHz):	20									
Frequency (MHz):	1720.0									
RB / Offset:	1 / 50									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	243	42	-78.05	2.94	31.89	-63.37	-13.00	-50.37
5160.0	H	-	-	-80.43	6.69	33.26	-62.00	-13.00	-49.00
6880.0	H	-	-	-80.93	10.36	36.43	-58.83	-13.00	-45.83
8600.0	H	-	-	-83.12	10.55	34.43	-60.83	-13.00	-47.83

Table 7-46. Antenna 4 Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	20									
Frequency (MHz):	1745.0									
RB / Offset:	1 / 50									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	153	162	-78.85	3.19	31.34	-63.92	-13.00	-50.92
5235.0	H	-	-	-80.38	6.70	33.32	-61.94	-13.00	-48.94
6980.0	H	-	-	-80.63	9.85	36.22	-59.04	-13.00	-46.04
8725.0	H	-	-	-83.52	11.03	34.51	-60.74	-13.00	-47.74

Table 7-47. Antenna 4 Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	20									
Frequency (MHz):	1770.0									
RB / Offset:	1 / 50									

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	-	-	-79.12	3.69	31.57	-63.68	-13.00	-50.68
5310.0	H	-	-	-80.50	7.25	33.75	-61.50	-13.00	-48.50
7080.0	H	-	-	-80.40	9.87	36.47	-58.79	-13.00	-45.79

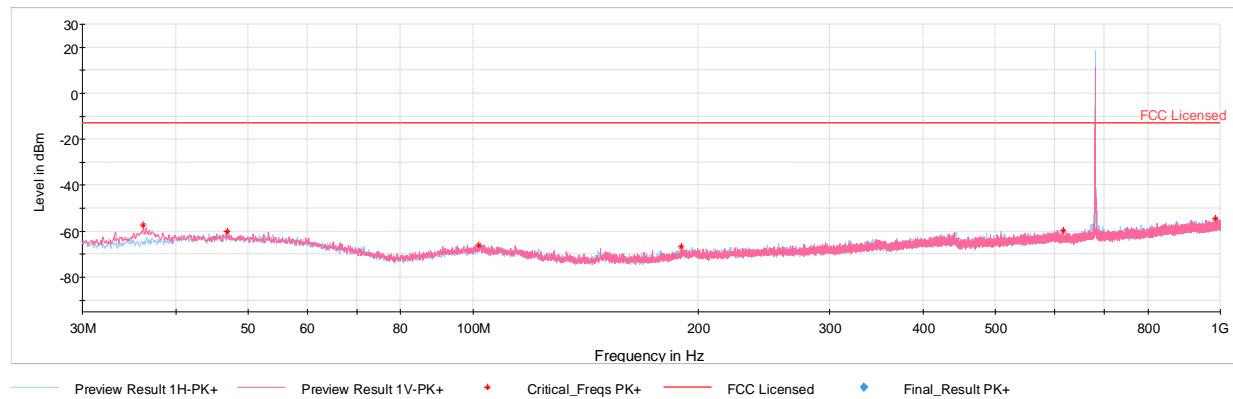
Table 7-48. Antenna 4 Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					

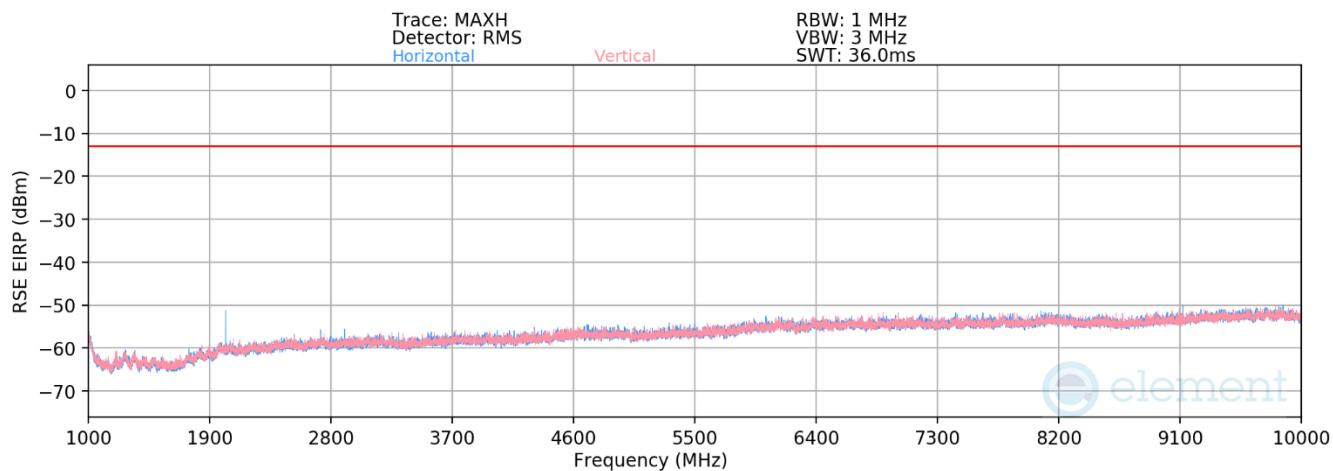
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NR Band n71



Plot 7-419. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-420. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 281 of 315

Bandwidth (MHz):	20								
Frequency (MHz):	673.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	194	350	-76.43	-2.90	27.67	-67.59	-13.00	-54.59
2019.0	H	394	121	-74.80	0.72	32.92	-62.34	-13.00	-49.34
2692.0	H	-	-	-77.48	2.33	31.85	-63.41	-13.00	-50.41
3365.0	H	-	-	-78.23	2.45	31.22	-64.04	-13.00	-51.04
4038.0	H	-	-	-79.93	3.80	30.87	-64.38	-13.00	-51.38

Table 7-49. Antenna 4 Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	680.5								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	223	69	-76.28	-3.32	27.40	-67.86	-13.00	-54.86
2041.5	H	182	38	-73.19	0.52	34.33	-60.93	-13.00	-47.93
2722.0	H	-	-	-78.04	2.40	31.36	-63.90	-13.00	-50.90
3402.5	H	-	-	-78.69	2.62	30.93	-64.33	-13.00	-51.33
4083.0	H	-	-	-78.83	3.65	31.82	-63.44	-13.00	-50.44

Table 7-50. Antenna 4 Radiated Spurious Data (NR Band n71 – Mid Channel)

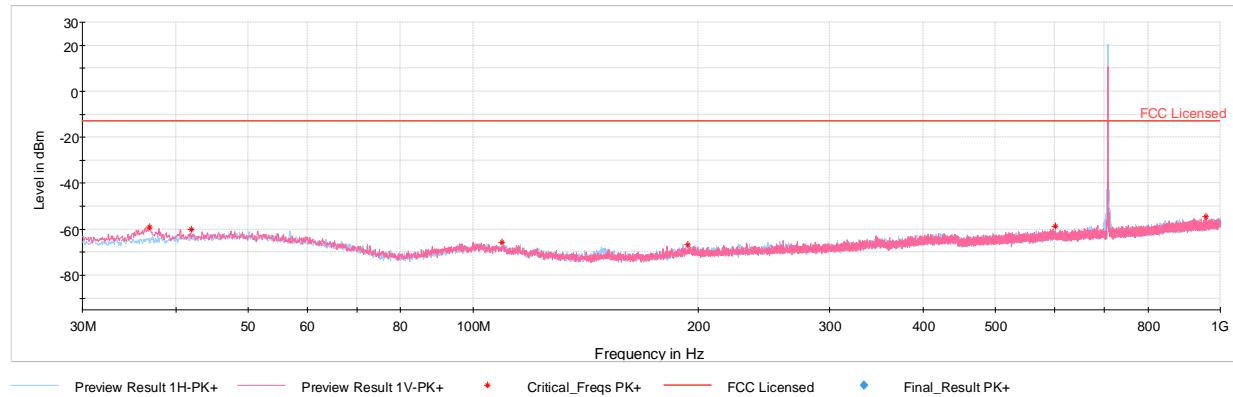
Bandwidth (MHz):	20								
Frequency (MHz):	688.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	235	130	-76.52	-3.71	26.77	-68.49	-13.00	-55.49
2064.0	H	110	44	-73.26	0.16	33.90	-61.35	-13.00	-48.35
2752.0	H	-	-	-78.08	2.19	31.11	-64.15	-13.00	-51.15
3440.0	H	-	-	-78.77	2.96	31.19	-64.07	-13.00	-51.07
4128.0	H	-	-	-79.02	3.56	31.54	-63.72	-13.00	-50.72

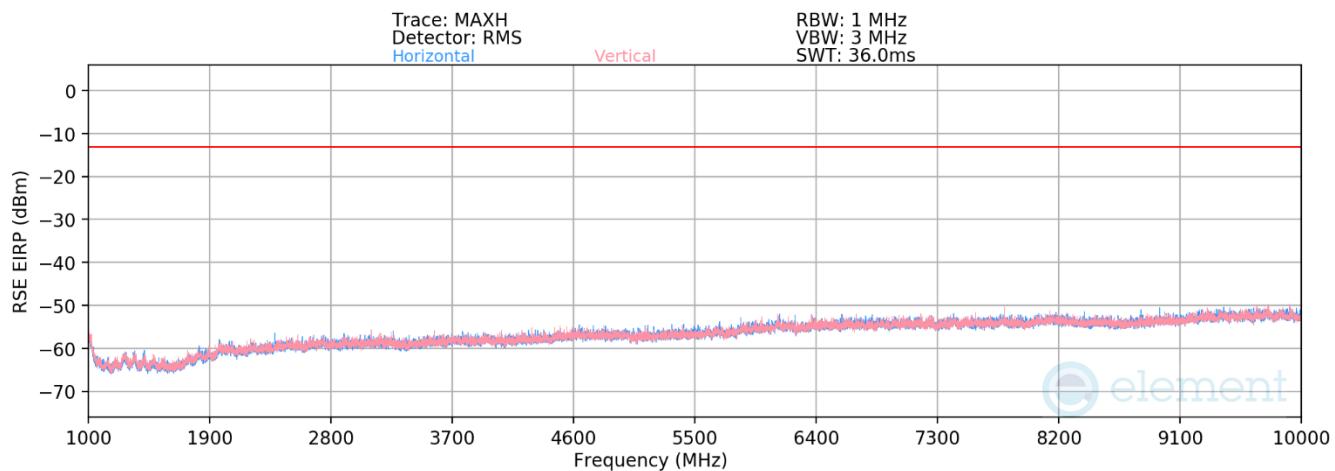
Table 7-51. Antenna 4 Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					

NR Band n12



Plot 7-421. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n12)



Plot 7-422. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n12)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 283 of 315

Bandwidth (MHz):	15								
Frequency (MHz):	706.5								
RB / Offset:	1 / 37								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	194	332	-74.47	-3.37	29.16	-66.10	-13.00	-53.10
2119.5	H	210	38	-77.05	0.02	29.97	-65.28	-13.00	-52.28
2826.0	H	-	-	-77.94	1.68	30.74	-64.52	-13.00	-51.52
3532.5	H	-	-	-78.67	3.11	31.44	-63.82	-13.00	-50.82
4239.0	H	-	-	-79.33	4.46	32.13	-63.13	-13.00	-50.13

Table 7-52. Antenna 4 Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15								
Frequency (MHz):	707.5								
RB / Offset:	1 / 37								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	215	167	-73.74	-3.35	29.91	-65.35	-13.00	-52.35
2122.5	H	202	49	-77.07	0.04	29.97	-65.29	-13.00	-52.29
2830.0	H	-	-	-77.89	1.72	30.83	-64.43	-13.00	-51.43
3537.5	H	-	-	-78.68	3.10	31.42	-63.84	-13.00	-50.84
4245.0	H	-	-	-79.09	4.37	32.28	-62.98	-13.00	-49.98

Table 7-53. Antenna 4 Radiated Spurious Data (NR Band n12 – Mid Channel)

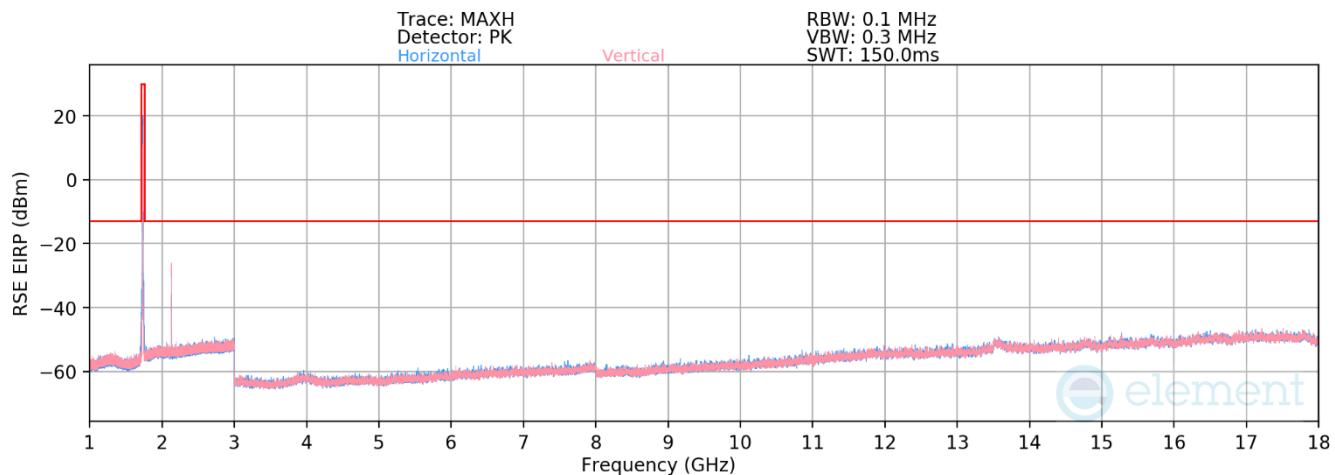
Bandwidth (MHz):	15								
Frequency (MHz):	708.5								
RB / Offset:	1 / 37								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	198	332	-75.08	-3.34	28.58	-66.68	-13.00	-53.68
2125.5	H	125	32	-77.27	0.06	29.79	-65.47	-13.00	-52.47
2834.0	H	-	-	-78.03	1.77	30.74	-64.52	-13.00	-51.52
3542.5	H	-	-	-78.63	3.11	31.48	-63.78	-13.00	-50.78
4251.0	H	-	-	-78.72	4.28	32.56	-62.70	-13.00	-49.70

Table 7-54. Antenna 4 Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					

WCDMA AWS



Plot 7-423. Antenna 4 Radiated Spurious Emission above 1GHz (WCDMA AWS)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 285 of 315

Mode:	WCDMA RMC								
Channel:	1312								
Frequency (MHz):	1712.4								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	-	-	-	-76.50	2.04	32.54	-62.72	-13.00	-49.72
5137.2	-	-	-	-77.40	4.60	34.20	-61.06	-13.00	-48.06
6849.6	-	-	-	-79.42	8.51	36.09	-59.16	-13.00	-46.16

7-55. Antenna 4 Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC								
Channel:	1413								
Frequency (MHz):	1732.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	-	-	-	-76.59	2.37	32.78	-62.48	-13.00	-49.48
5197.8	-	-	-	-77.76	5.15	34.39	-60.87	-13.00	-47.87
6930.4	-	-	-	-79.37	8.37	36.00	-59.26	-13.00	-46.26

Table 7-56. Antenna 4 Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC								
Channel:	1513								
Frequency (MHz):	1752.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	-	-	-	-76.82	2.45	32.63	-62.63	-13.00	-49.63
5257.8	-	-	-	-77.89	4.82	33.93	-61.32	-13.00	-48.32
7010.4	-	-	-	-79.09	7.89	35.80	-59.46	-13.00	-46.46

Table 7-57. Antenna 4 Radiated Spurious Data (WCDMA AWS – High Channel)

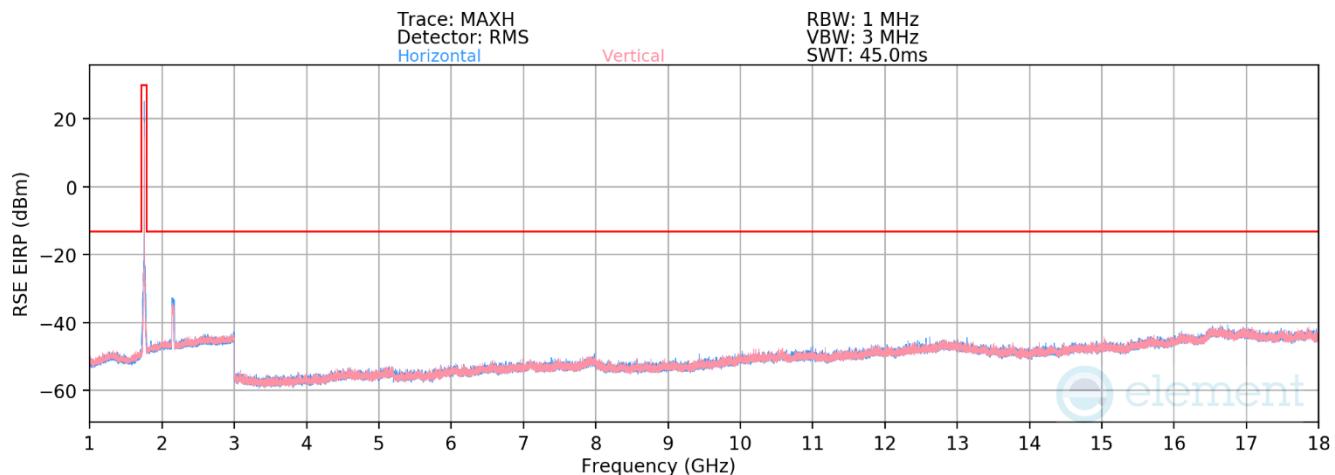
FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

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Page 286 of 315

ULCA LTE Band 66B/C



Plot 7-424. Antenna 4 Radiated Spurious Emission above 1GHz (ULCA LTE Band 66)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 287 of 315

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-76.36	2.05	32.69	-62.57	-13.00	-49.57
5160.0	V	-	-	-77.95	4.69	33.74	-61.51	-13.00	-48.51
6880.0	V	-	-	-79.54	8.48	35.94	-59.31	-13.00	-46.31

7-58. Antenna 4 Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-73.34	5.73	39.39	-55.87	-13.00	-42.87
5235.0	V	-	-	-75.43	8.72	40.29	-54.97	-13.00	-41.97
6980.0	V	-	-	-76.74	11.70	41.96	-53.29	-13.00	-40.29

Table 7-59. Antenna 4 Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-76.89	2.44	32.55	-62.70	-13.00	-49.70
5310.0	V	-	-	-77.52	4.76	34.24	-61.02	-13.00	-48.02
7080.0	V	-	-	-78.74	7.97	36.23	-59.02	-13.00	-46.02

Table 7-60. Antenna 4 Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device						

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Page 288 of 315

7.7.2 Antenna 3b – Radiated Spurious Emission Measurement

LTE Band 71

Bandwidth (MHz):	20									
Frequency (MHz):	673.0									
RB / Offset:	1 / 50									
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]	
1346.0	H	289	19	-73.16	-1.18	32.66	-62.60	-13.00	-49.60	
2019.0	H	319	160	-73.73	1.78	35.05	-60.21	-13.00	-47.21	
2692.0	H	-	-	-78.60	3.60	32.00	-63.26	-13.00	-50.26	
3365.0	H	-	-	-79.22	4.68	32.46	-62.80	-13.00	-49.80	
4038.0	H	-	-	-79.16	5.84	33.68	-61.58	-13.00	-48.58	

Table 7-61. Antenna 3b Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20									
Frequency (MHz):	680.5									
RB / Offset:	1 / 50									
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]	
1361.0	V	-	-	-76.62	-1.34	29.04	-66.22	-13.00	-53.22	
2041.5	V	314	214	-74.30	1.60	34.30	-60.96	-13.00	-47.96	
2722.0	V	-	-	-78.72	3.87	32.15	-63.11	-13.00	-50.11	
3402.5	V	-	-	-78.98	4.59	32.61	-62.65	-13.00	-49.65	
4083.0	V	-	-	-79.29	5.94	33.65	-61.60	-13.00	-48.60	

Table 7-62. Antenna 3b Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20									
Frequency (MHz):	688.0									
RB / Offset:	1 / 50									
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]	
1376.0	H	265	178	-76.54	-1.32	29.14	-66.11	-13.00	-53.11	
2064.0	V	186	227	-74.76	1.73	33.97	-61.29	-13.00	-48.29	
2752.0	V	-	-	-78.43	3.70	32.27	-62.99	-13.00	-49.99	
3440.0	V	-	-	-78.94	4.16	32.22	-63.04	-13.00	-50.04	
4128.0	V	-	-	-79.28	5.79	33.51	-61.75	-13.00	-48.75	

Table 7-63. Antenna 3b Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			Page 289 of 315

LTE Band 12/17

Bandwidth (MHz):	10								
Frequency (MHz):	704.0								
RB / Offset:	1 / 24								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	V	-	-	-76.93	-1.65	28.42	-66.84	-13.00	-53.84
2112.0	V	259	286	-77.50	1.70	31.20	-64.06	-13.00	-51.06
2816.0	V	-	-	-78.18	3.33	32.15	-63.11	-13.00	-50.11
3520.0	V	-	-	-78.75	4.14	32.39	-62.87	-13.00	-49.87
4224.0	V	-	-	-79.04	5.73	33.69	-61.57	-13.00	-48.57

Table 7-64. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	707.5								
RB / Offset:	1 / 24								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	-	-	-76.55	-1.60	28.85	-66.41	-13.00	-53.41
2122.5	H	364	213	-76.44	1.72	32.28	-62.98	-13.00	-49.98
2830.0	H	-	-	-78.42	3.24	31.82	-63.44	-13.00	-50.44
3537.5	H	-	-	-78.79	4.48	32.69	-62.57	-13.00	-49.57
4245.0	H	-	-	-79.32	5.75	33.43	-61.83	-13.00	-48.83

Table 7-65. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	711.0								
RB / Offset:	1 / 24								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	V	-	-	-76.79	-1.54	28.67	-66.59	-13.00	-53.59
2133.0	V	109	247	-76.80	1.87	32.07	-63.19	-13.00	-50.19
2844.0	V	-	-	-78.17	3.07	31.90	-63.36	-13.00	-50.36
3555.0	V	-	-	-79.06	4.81	32.75	-62.51	-13.00	-49.51
4266.0	V	-	-	-79.36	5.72	33.36	-61.90	-13.00	-48.90

Table 7-66. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 290 of 315

LTE Band 13

Bandwidth (MHz):	5								
Frequency (MHz):	779.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	-	-	-78.21	-3.05	25.74	-69.52	-40.00	-29.52
2338.5	H	180	269	-77.82	1.50	30.68	-64.58	-13.00	-51.58
3118.0	H	-	-	-79.55	3.21	30.66	-64.60	-13.00	-51.60
3897.5	H	-	-	-80.27	4.66	31.39	-63.87	-13.00	-50.87
4677.0	H	-	-	-80.79	5.57	31.78	-63.48	-13.00	-50.48

Table 7-67. Antenna 3b Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	782.0								
RB / Offset:	2 / 24								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	H	-	-	-77.47	-2.10	27.43	-67.82	-40.00	-27.82
2346.0	H	251	137	-72.57	2.00	36.43	-58.83	-13.00	-45.83
3128.0	H	-	-	-78.43	3.79	32.36	-62.90	-13.00	-49.90
3910.0	H	-	-	-79.05	5.13	33.08	-62.18	-13.00	-49.18
4692.0	H	-	-	-79.33	6.84	34.51	-60.75	-13.00	-47.75

Table 7-68. Antenna 3b Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5								
Frequency (MHz):	784.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	V	-	-	-77.82	-3.06	26.12	-69.13	-40.00	-29.13
2353.5	V	249	57	-75.53	1.39	32.86	-62.40	-13.00	-49.40
3138.0	V	-	-	-79.67	3.31	30.64	-64.61	-13.00	-51.61
3922.5	V	-	-	-80.33	4.53	31.20	-64.06	-13.00	-51.06
4707.0	V	-	-	-80.61	5.40	31.79	-63.47	-13.00	-50.47

Table 7-69. Antenna 3b Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					



NR Band n71

Bandwidth (MHz):	20								
Frequency (MHz):	673.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	V	321	63	-72.15	-2.90	31.95	-63.31	-13.00	-50.31
2019.0	V	102	9	-77.42	0.72	30.30	-64.96	-13.00	-51.96
2692.0	V	-	-	-77.97	2.33	31.36	-63.90	-13.00	-50.90
3365.0	V	-	-	-78.59	2.45	30.86	-64.40	-13.00	-51.40
4038.0	V	-	-	-78.97	3.80	31.83	-63.42	-13.00	-50.42

Table 7-70. Antenna 3b Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	680.5								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	V	312	109	-76.09	-3.32	27.59	-67.67	-13.00	-54.67
2041.5	V	225	204	-70.40	0.52	37.12	-58.14	-13.00	-45.14
2722.0	V	-	-	-78.05	2.40	31.35	-63.91	-13.00	-50.91
3402.5	V	-	-	-78.93	2.62	30.69	-64.57	-13.00	-51.57
4083.0	V	-	-	-78.84	3.65	31.81	-63.45	-13.00	-50.45

Table 7-71. Antenna 3b Radiated Spurious Data (NR Band n71 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	688.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	182	304	-76.38	-3.71	26.91	-68.35	-13.00	-55.35
2064.0	V	110	185	-74.10	0.16	33.06	-62.19	-13.00	-49.19
2752.0	V	-	-	-78.03	2.19	31.16	-64.10	-13.00	-51.10
3440.0	V	-	-	-78.77	2.96	31.19	-64.07	-13.00	-51.07
4128.0	V	-	-	-78.89	3.56	31.67	-63.59	-13.00	-50.59

Table 7-72. Antenna 3b Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 292 of 315

NR Band n12

Bandwidth (MHz):	15								
Frequency (MHz):	706.5								
RB / Offset:	1 / 37								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	194	148	-76.00	-3.37	27.63	-67.63	-13.00	-54.63
2119.5	V	141	246	-76.25	0.02	30.77	-64.48	-13.00	-51.48
2826.0	V	-	-	-78.05	1.68	30.63	-64.63	-13.00	-51.63
3532.5	V	-	-	-78.72	3.11	31.39	-63.87	-13.00	-50.87
4239.0	V	-	-	-79.29	4.46	32.17	-63.09	-13.00	-50.09

Table 7-73. Antenna 3b Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15								
Frequency (MHz):	707.5								
RB / Offset:	1 / 37								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	190	32	-76.23	-3.35	27.42	-67.84	-13.00	-54.84
2122.5	V	117	220	-76.62	0.04	30.42	-64.84	-13.00	-51.84
2830.0	V	-	-	-78.02	1.72	30.70	-64.56	-13.00	-51.56
3537.5	V	-	-	-78.73	3.10	31.37	-63.89	-13.00	-50.89
4245.0	V	-	-	-79.05	4.37	32.32	-62.94	-13.00	-49.94

Table 7-74. Antenna 3b Radiated Spurious Data (NR Band n12 – Mid Channel)

Bandwidth (MHz):	15								
Frequency (MHz):	708.5								
RB / Offset:	1 / 37								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	V	320	75	-76.68	-3.34	26.98	-68.28	-13.00	-55.28
2125.5	V	219	268	-77.62	0.06	29.44	-65.82	-13.00	-52.82
2834.0	V	-	-	-78.21	1.77	30.56	-64.70	-13.00	-51.70
3542.5	V	-	-	-78.72	3.11	31.39	-63.87	-13.00	-50.87
4251.0	V	-	-	-79.63	4.28	31.65	-63.61	-13.00	-50.61

Table 7-75. Antenna 3b Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 293 of 315	

7.7.3 Antenna 2b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	167	325	-78.48	4.93	33.45	-61.81	-13.00	-48.81
5160.0	V	-	-	-79.97	7.51	34.54	-60.72	-13.00	-47.72
6880.0	V	-	-	-80.24	10.24	37.00	-58.26	-13.00	-45.26
8600.0	V	-	-	-81.40	11.53	37.13	-58.13	-13.00	-45.13

Table 7-76. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	266	318	-79.02	5.40	33.38	-61.88	-13.00	-48.88
5235.0	V	-	-	-79.62	7.36	34.74	-60.51	-13.00	-47.51
6980.0	V	-	-	-80.07	9.92	36.85	-58.41	-13.00	-45.41
8725.0	V	-	-	-80.95	11.60	37.65	-57.60	-13.00	-44.60

Table 7-77. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	-	-	-	-79.20	5.64	33.44	-61.82	-13.00	-48.82
5310.0	-	-	-	-79.68	7.58	34.90	-60.36	-13.00	-47.36
7080.0	-	-	-	-80.30	10.37	37.07	-58.19	-13.00	-45.19

Table 7-78. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 294 of 315	

NR Band n66

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	250	176	-73.81	2.94	36.13	-59.13	-13.00	-46.13
5160.0	H	-	-	-80.43	6.69	33.26	-62.00	-13.00	-49.00
6880.0	H	-	-	-81.07	10.36	36.29	-58.97	-13.00	-45.97
8600.0	H	-	-	-83.18	10.55	34.37	-60.89	-13.00	-47.89

Table 7-79. Antenna 2b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	195	184	-78.58	3.19	31.61	-63.65	-13.00	-50.65
5235.0	H	-	-	-80.30	6.70	33.40	-61.86	-13.00	-48.86
6980.0	H	-	-	-80.54	9.85	36.31	-58.95	-13.00	-45.95
8725.0	H	-	-	-83.52	11.03	34.51	-60.74	-13.00	-47.74

Table 7-80. Antenna 2b Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	188	177	-78.73	3.69	31.96	-63.29	-13.00	-50.29
5310.0	H	-	-	-80.56	7.25	33.69	-61.56	-13.00	-48.56
7080.0	H	-	-	-81.10	9.87	35.77	-59.49	-13.00	-46.49
8850.0	H	-	-	-83.64	11.19	34.55	-60.70	-13.00	-47.70

Table 7-81. Antenna 2b Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					Page 295 of 315

ULCA LTE Band 66B/C

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-76.54	2.05	32.51	-62.75	-13.00	-49.75
5160.0	V	-	-	-78.03	4.69	33.66	-61.59	-13.00	-48.59
6880.0	V	-	-	-79.32	8.48	36.16	-59.09	-13.00	-46.09

7-82. Antenna 2b Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-73.41	5.73	39.32	-55.94	-13.00	-42.94
5235.0	V	-	-	-76.37	8.72	39.35	-55.91	-13.00	-42.91
6980.0	V	-	-	-76.95	11.70	41.75	-53.50	-13.00	-40.50

Table 7-83. Antenna 2b Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-76.93	2.44	32.51	-62.74	-13.00	-49.74
5310.0	V	-	-	-77.69	4.76	34.07	-61.19	-13.00	-48.19
7080.0	V	-	-	-79.00	7.97	35.97	-59.28	-13.00	-46.28

Table 7-84. Antenna 2b Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device						

V2.1 11/9/2021

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Page 296 of 315

WCDMA AWS

Mode:	WCDMA RMC								
Channel:	1312								
Frequency (MHz):	1712.4								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	-	-	-	-76.45	2.04	32.59	-62.67	-13.00	-49.67
5137.2	-	-	-	-77.67	4.60	33.93	-61.33	-13.00	-48.33
6849.6	-	-	-	-79.29	8.51	36.22	-59.03	-13.00	-46.03

7-85. Antenna 2b Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC								
Channel:	1413								
Frequency (MHz):	1732.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	-	-	-	-76.58	2.37	32.79	-62.47	-13.00	-49.47
5197.8	-	-	-	-78.08	5.15	34.07	-61.19	-13.00	-48.19
6930.4	-	-	-	-79.32	8.37	36.05	-59.21	-13.00	-46.21

Table 7-86. Antenna 2b Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC								
Channel:	1513								
Frequency (MHz):	1752.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	-	-	-	-76.69	2.45	32.76	-62.50	-13.00	-49.50
5257.8	-	-	-	-77.58	4.82	34.24	-61.01	-13.00	-48.01
7010.4	-	-	-	-79.14	7.89	35.75	-59.51	-13.00	-46.51

Table 7-87. Antenna 2b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

7.7.4 Antenna 3a – Radiated Spurious Emission Measurement

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	-	-	-	-78.90	4.93	33.03	-62.23	-13.00	-49.23
5160.0	-	-	-	-79.98	7.51	34.53	-60.73	-13.00	-47.73
6880.0	-	-	-	-80.09	10.24	37.15	-58.11	-13.00	-45.11

Table 7-88. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	-	-	-	-79.21	5.40	33.19	-62.07	-13.00	-49.07
5235.0	-	-	-	-79.75	7.36	34.61	-60.64	-13.00	-47.64
6980.0	-	-	-	-80.03	9.92	36.89	-58.37	-13.00	-45.37

Table 7-89. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	-	-	-	-79.37	5.64	33.27	-61.99	-13.00	-48.99
5310.0	-	-	-	-79.75	7.58	34.83	-60.43	-13.00	-47.43
7080.0	-	-	-	-80.32	10.37	37.05	-58.21	-13.00	-45.21

Table 7-90. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

NR Band n66

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	243	100	-77.76	2.94	32.18	-63.08	-13.00	-50.08
5160.0	H	222	90	-80.51	6.69	33.18	-62.08	-13.00	-49.08
6880.0	H	-	-	-80.99	10.36	36.37	-58.89	-13.00	-45.89
8600.0	H	-	-	-83.27	10.55	34.28	-60.98	-13.00	-47.98
10320.0	H	-	-	-83.49	12.45	35.96	-59.30	-13.00	-46.30

Table 7-91. Antenna 3a Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	-	-	-79.20	3.19	30.99	-64.27	-13.00	-51.27
5235.0	H	-	-	-80.39	6.70	33.31	-61.95	-13.00	-48.95
6980.0	H	-	-	-80.59	9.85	36.26	-59.00	-13.00	-46.00

Table 7-92. Antenna 3a Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	167	357	-78.34	3.69	32.35	-62.90	-13.00	-49.90
5310.0	H	-	-	-80.62	7.25	33.63	-61.62	-13.00	-48.62
7080.0	H	-	-	-80.88	9.87	35.99	-59.27	-13.00	-46.27
8850.0	H	-	-	-83.60	11.19	34.59	-60.66	-13.00	-47.66

Table 7-93. Antenna 3a Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				Page 299 of 315

WCDMA AWS

Mode:	WCDMA RMC								
Channel:	1312								
Frequency (MHz):	1712.4								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	-	-	-	-76.61	2.04	32.43	-62.83	-13.00	-49.83
5137.2	-	-	-	-77.77	4.60	33.83	-61.43	-13.00	-48.43
6849.6	-	-	-	-79.25	8.51	36.26	-58.99	-13.00	-45.99

7-94. Antenna 3a Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC								
Channel:	1413								
Frequency (MHz):	1732.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	-	-	-	-76.84	2.37	32.53	-62.73	-13.00	-49.73
5197.8	-	-	-	-77.93	5.15	34.22	-61.04	-13.00	-48.04
6930.4	-	-	-	-79.19	8.37	36.18	-59.08	-13.00	-46.08

Table 7-95. Antenna 3a Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC								
Channel:	1513								
Frequency (MHz):	1752.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	-	-	-	-76.75	2.45	32.70	-62.56	-13.00	-49.56
5257.8	-	-	-	-77.82	4.82	34.00	-61.25	-13.00	-48.25
7010.4	-	-	-	-78.89	7.89	36.00	-59.26	-13.00	-46.26

Table 7-96. Antenna 3a Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

ULCA LTE Band 66B/C

PCC Bandwidth (MHz):	20								
PCC Frequency (MHz):	1720.0								
PCC RB / Offset:	1 / 99								
SCC Bandwidth (MHz):	20								
SCC Frequency (MHz):	1739.8								
SCC RB / Offset:	1 / 0								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-76.59	2.05	32.46	-62.80	-13.00	-49.80
5160.0	V	-	-	-78.16	4.69	33.53	-61.72	-13.00	-48.72
6880.0	V	-	-	-79.47	8.48	36.01	-59.24	-13.00	-46.24

7-97. Antenna 3a Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20								
PCC Frequency (MHz):	1745.0								
PCC RB / Offset:	1 / 99								
SCC Bandwidth (MHz):	20								
SCC Frequency (MHz):	1764.8								
SCC RB / Offset:	1 / 0								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-74.62	5.73	38.11	-57.15	-13.00	-44.15
5235.0	V	-	-	-75.88	8.72	39.84	-55.42	-13.00	-42.42
6980.0	V	-	-	-77.95	11.70	40.75	-54.50	-13.00	-41.50

Table 7-98. Antenna 3a Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20								
PCC Frequency (MHz):	1770.0								
PCC RB / Offset:	1 / 0								
SCC Bandwidth (MHz):	20								
SCC Frequency (MHz):	1750.2								
SCC RB / Offset:	1 / 99								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	-	-	-	-76.84	2.44	32.60	-62.65	-13.00	-49.65
5310.0	-	-	-	-77.62	4.76	34.14	-61.12	-13.00	-48.12
7080.0	-	-	-	-79.10	7.97	35.87	-59.38	-13.00	-46.38

Table 7-99. Antenna 3a Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device						

7.7.5 Antenna 1b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	109	250	-78.72	4.93	33.21	-62.05	-13.00	-49.05
5160.0	V	-	-	-80.02	7.51	34.49	-60.77	-13.00	-47.77
6880.0	V	-	-	-80.02	10.24	37.22	-58.04	-13.00	-45.04
8600.0	V	-	-	-81.22	11.53	37.31	-57.95	-13.00	-44.95

Table 7-100. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	-	-	-	-79.03	5.40	33.37	-61.89	-13.00	-48.89
5235.0	-	-	-	-79.77	7.36	34.59	-60.66	-13.00	-47.66
6980.0	-	-	-	-80.01	9.92	36.91	-58.35	-13.00	-45.35

Table 7-101. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	-	-	-	-79.15	5.64	33.49	-61.77	-13.00	-48.77
5310.0	-	-	-	-79.85	7.58	34.73	-60.53	-13.00	-47.53
7080.0	-	-	-	-80.28	10.37	37.09	-58.17	-13.00	-45.17

Table 7-102. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					

NR Band n66

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	354	308	-78.39	2.94	31.55	-63.71	-13.00	-50.71
5160.0	H	-	-	-80.53	6.69	33.16	-62.10	-13.00	-49.10
6880.0	H	-	-	-81.04	10.36	36.32	-58.94	-13.00	-45.94
8600.0	H	-	-	-83.03	10.55	34.52	-60.74	-13.00	-47.74

Table 7-103. Antenna 1b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	-	-	-79.08	3.19	31.11	-64.15	-13.00	-51.15
5235.0	H	-	-	-80.41	6.70	33.29	-61.97	-13.00	-48.97
6980.0	H	-	-	-80.55	9.85	36.30	-58.96	-13.00	-45.96

Table 7-104. Antenna 1b Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	-	-	-79.11	3.69	31.58	-63.67	-13.00	-50.67
5310.0	H	-	-	-80.46	7.25	33.79	-61.46	-13.00	-48.46
7080.0	H	-	-	-81.01	9.87	35.86	-59.40	-13.00	-46.40

Table 7-105. Antenna 1b Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

WCDMA AWS

Mode:	WCDMA RMC								
Channel:	1312								
Frequency (MHz):	1712.4								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	-	-	-	-76.49	2.04	32.55	-62.71	-13.00	-49.71
5137.2	-	-	-	-77.48	4.60	34.12	-61.14	-13.00	-48.14
6849.6	-	-	-	-79.17	8.51	36.34	-58.91	-13.00	-45.91

7-106. Antenna 1b Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC								
Channel:	1413								
Frequency (MHz):	1732.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	-	-	-	-76.78	2.37	32.59	-62.67	-13.00	-49.67
5197.8	-	-	-	-77.80	5.15	34.35	-60.91	-13.00	-47.91
6930.4	-	-	-	-79.25	8.37	36.12	-59.14	-13.00	-46.14

Table 7-107. Antenna 1b Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC								
Channel:	1513								
Frequency (MHz):	1752.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	-	-	-	-76.91	2.45	32.54	-62.72	-13.00	-49.72
5257.8	V	302	329	-74.00	4.82	37.82	-57.43	-13.00	-44.43
7010.4	-	-	-	-78.98	7.89	35.91	-59.35	-13.00	-46.35
8763.0	-	-	-	-81.23	10.35	36.12	-59.14	-13.00	-46.14
10515.6	-	-	-	-82.65	14.22	38.57	-56.69	-13.00	-43.69

Table 7-108. Antenna 1b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device				

ULCA LTE Band 66B/C

PCC Bandwidth (MHz):	20									
PCC Frequency (MHz):	1720.0									
PCC RB / Offset:	1 / 99									
SCC Bandwidth (MHz):	20									
SCC Frequency (MHz):	1739.8									
SCC RB / Offset:	1 / 0									
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]	
3440.0	V	-	-	-76.58	2.05	32.47	-62.79	-13.00	-49.79	
5160.0	V	-	-	-77.84	4.69	33.85	-61.40	-13.00	-48.40	
6880.0	V	-	-	-79.46	8.48	36.02	-59.23	-13.00	-46.23	

7-109. Antenna 1b Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20									
PCC Frequency (MHz):	1745.0									
PCC RB / Offset:	1 / 99									
SCC Bandwidth (MHz):	20									
SCC Frequency (MHz):	1764.8									
SCC RB / Offset:	1 / 0									
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]	
3490.0	V	-	-	-74.35	5.73	38.38	-56.88	-13.00	-43.88	
5235.0	V	-	-	-75.19	8.72	40.53	-54.73	-13.00	-41.73	
6980.0	V	-	-	-77.09	11.70	41.61	-53.64	-13.00	-40.64	

Table 7-110. Antenna 1b Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20									
PCC Frequency (MHz):	1770.0									
PCC RB / Offset:	1 / 0									
SCC Bandwidth (MHz):	20									
SCC Frequency (MHz):	1750.2									
SCC RB / Offset:	1 / 99									
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]	
3540.0	V	-	-	-76.75	2.44	32.69	-62.56	-13.00	-49.56	
5310.0	V	-	-	-77.78	4.76	33.98	-61.28	-13.00	-48.28	
7080.0	V	-	-	-79.05	7.97	35.92	-59.33	-13.00	-46.33	

Table 7-111. Antenna 1b Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device					Page 305 of 315

7.8 Frequency Stability / Temperature Variation

§2.1053, §27.53

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

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

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

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

Test Setup

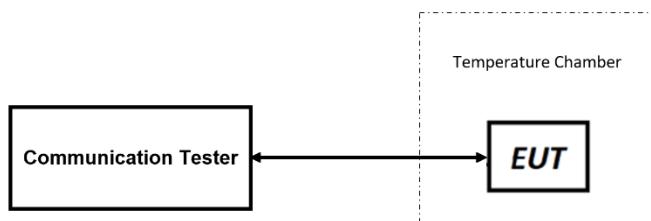


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA2757	element		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 306 of 315

Frequency Stability / Temperature Variation

LTE Band 66/4							
		Low Channel Frequency (Hz):		1,720,000,000			
		High Channel Frequency (Hz):		1,770,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,720,000,021	1,770,000,033	11	18	0.0000010
		- 20	1,720,000,029	1,770,000,030	19	15	0.0000011
		- 10	1,720,000,028	1,770,000,031	18	16	0.0000010
		0	1,720,000,023	1,770,000,028	13	13	0.0000008
		+ 10	1,720,000,019	1,770,000,032	9	17	0.0000010
		+ 20 (Ref)	1,720,000,010	1,770,000,015	0	0	0.0000000
		+ 30	1,720,000,028	1,770,000,027	18	12	0.0000010
		+ 40	1,720,000,024	1,770,000,035	14	20	0.0000011
		+ 50	1,720,000,023	1,770,000,028	13	13	0.0000008
		Battery Endpoint	3.23	+ 20	1,720,000,031	1,770,000,032	21

Table 7-112. LTE Band 66/4 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

Frequency Stability / Temperature Variation

LTE Band 71							
		Low Channel Frequency (Hz):		673,000,000			
		High Channel Frequency (Hz):		688,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	673,000,032	688,000,025	19	13	0.0000028
		- 20	673,000,026	688,000,034	13	22	0.0000032
		- 10	673,000,032	688,000,031	19	19	0.0000028
		0	673,000,023	688,000,020	10	8	0.0000015
		+ 10	673,000,021	688,000,021	8	9	0.0000013
		+ 20 (Ref)	673,000,013	688,000,012	0	0	0.0000000
		+ 30	673,000,030	688,000,026	17	14	0.0000025
		+ 40	673,000,026	688,000,026	13	14	0.0000020
		+ 50	673,000,025	688,000,029	12	17	0.0000010
Battery Endpoint	3.23	+ 20	673,000,033	688,000,033	20	21	0.0000012

Table 7-113. LTE Band 71 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

Frequency Stability / Temperature Variation

LTE Band 12/17							
		Low Channel Frequency (Hz):		704,000,000			
		High Channel Frequency (Hz):		711,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	704,000,029	711,000,035	15	17	0.0000024
		- 20	704,000,034	711,000,039	20	21	0.0000030
		- 10	704,000,029	711,000,032	15	14	0.0000021
		0	704,000,030	711,000,026	16	8	0.0000023
		+ 10	704,000,026	711,000,033	12	15	0.0000021
		+ 20 (Ref)	704,000,014	711,000,018	0	0	0.0000000
		+ 30	704,000,030	711,000,029	16	11	0.0000023
		+ 40	704,000,033	711,000,033	19	15	0.0000027
		+ 50	704,000,024	711,000,040	10	22	0.0000013
		Battery Endpoint	3.23	704,000,026	711,000,031	12	13

Table 7-114. LTE Band 12/17 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

Frequency Stability / Temperature Variation

LTE Band 13							
		Low Channel Frequency (Hz):		779,500,000			
		High Channel Frequency (Hz):		784,500,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	779,500,034	784,500,038	14	18	0.0000023
		- 20	779,500,039	784,500,034	19	14	0.0000024
		- 10	779,500,034	784,500,030	14	10	0.0000018
		0	779,500,042	784,500,041	22	21	0.0000028
		+ 10	779,500,040	784,500,040	20	20	0.0000026
		+ 20 (Ref)	779,500,020	784,500,020	0	0	0.0000000
		+ 30	779,500,033	784,500,029	13	9	0.0000017
		+ 40	779,500,042	784,500,042	22	22	0.0000028
		+ 50	779,500,040	784,500,029	20	9	0.0000012
Battery Endpoint	3.23	+ 20	779,500,039	784,500,036	19	16	0.0000011

Table 7-115. LTE Band 13 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device	Page 310 of 315	

Frequency Stability / Temperature Variation

NR Band n66							
		Low Channel Frequency (Hz):		1,730,000,000			
		High Channel Frequency (Hz):		1,760,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,730,000,164	1,760,000,173	69	84	0.0000048
		- 20	1,730,000,172	1,760,000,162	77	73	0.0000045
		- 10	1,730,000,193	1,760,000,160	98	71	0.0000057
		0	1,730,000,174	1,760,000,170	79	81	0.0000046
		+ 10	1,730,000,183	1,760,000,184	88	95	0.0000054
		+ 20 (Ref)	1,730,000,095	1,760,000,089	0	0	0.0000000
		+ 30	1,730,000,170	1,760,000,177	75	88	0.0000050
		+ 40	1,730,000,165	1,760,000,161	70	72	0.0000041
		+ 50	1,730,000,192	1,760,000,184	97	95	0.0000057
Battery Endpoint	3.23	+ 20	1,730,000,185	1,760,000,183	90	94	0.0000054

Table 7-116. NR Band n66 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

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V2.1 11/9/2021

Frequency Stability / Temperature Variation

NR Band n71							
		Low Channel Frequency (Hz):		673,000,000			
		High Channel Frequency (Hz):		688,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	673,000,174	688,000,163	77	89	0.0000129
		- 20	673,000,193	688,000,162	96	88	0.0000143
		- 10	673,000,177	688,000,161	80	87	0.0000126
		0	673,000,186	688,000,143	89	69	0.0000132
		+ 10	673,000,194	688,000,156	97	82	0.0000144
		+ 20 (Ref)	673,000,097	688,000,074	0	0	0.0000000
		+ 30	673,000,194	688,000,157	97	83	0.0000144
		+ 40	673,000,166	688,000,163	69	89	0.0000129
		+ 50	673,000,176	688,000,167	79	93	0.0000053
Battery Endpoint	3.23	+ 20	673,000,166	688,000,169	69	95	0.0000054

Table 7-117. NR Band n71 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

Frequency Stability / Temperature Variation

NR Band n12							
		Low Channel Frequency (Hz):		706,500,000			
		High Channel Frequency (Hz):		708,500,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	706,500,150	708,500,192	75	95	0.0000134
		- 20	706,500,147	708,500,179	72	82	0.0000116
		- 10	706,500,173	708,500,169	98	72	0.0000139
		0	706,500,154	708,500,194	79	97	0.0000137
		+ 10	706,500,172	708,500,181	97	84	0.0000137
		+ 20 (Ref)	706,500,075	708,500,097	0	0	0.0000000
		+ 30	706,500,173	708,500,170	98	73	0.0000139
		+ 40	706,500,146	708,500,185	71	88	0.0000124
		+ 50	706,500,167	708,500,167	92	70	0.0000054
Battery Endpoint	3.23	+ 20	706,500,150	708,500,174	75	77	0.0000044

Table 7-118. NR Band n12 Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

Frequency Stability / Temperature Variation

WCDMA AWS							
		Low Channel Frequency (Hz):		1,712,400,000			
		High Channel Frequency (Hz):		1,752,600,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,712,400,028	1,752,600,026	17	17	0.0000010
		- 20	1,712,400,019	1,752,600,025	8	16	0.0000009
		- 10	1,712,400,024	1,752,600,027	13	18	0.0000010
		0	1,712,400,027	1,752,600,022	16	13	0.0000009
		+ 10	1,712,400,025	1,752,600,027	14	18	0.0000010
		+ 20 (Ref)	1,712,400,011	1,752,600,009	0	0	0.0000000
		+ 30	1,712,400,030	1,752,600,028	19	19	0.0000011
		+ 40	1,712,400,024	1,752,600,026	13	17	0.0000010
		+ 50	1,712,400,031	1,752,600,019	20	10	0.0000012
Battery Endpoint	3.23	+ 20	1,712,400,021	1,752,600,025	10	16	0.0000009

Table 7-119. WCDMA AWS Frequency Stability Data

FCC ID: BCGA2757	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device			

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2757** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2757	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-03.BCG	Test Dates: 05/30/2022 - 09/13/2022	EUT Type: Tablet Device		Page 315 of 315