

B.2.2.22 LTE Band38 TDD – Laptop / Tablet Modes /ULCA – Antenna 5

SAR Measurement for LTE Band 38 TDD (Frequency range: 2570 – 2620MHz) is covered by LTE Band 41 TDD (Frequency range: 2496 – 2690MHz) due to overlapping frequency range, same maximum tune-up and same bandwidth.

B.2.2.23 LTE Band 41 TDD – Laptop Mode – Antenna 5

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	20 MHz	39750	2506	1RB Low	1 Pos 0	19.50	0	18.85	19.50	1	18.04
				1RB Mid	1 Pos 50	19.50	0	18.50	19.50	1	17.74
				1RB High	1 Pos 99	19.50	0	18.08	19.50	1	17.28
				50% RB Low	50 Pos 0	19.50	1	17.63	19.50	2	16.67
				50% RB Mid	50 Pos 24	19.50	1	17.55	19.50	2	16.55
				50% RB High	50 Pos 50	19.50	1	17.39	19.50	2	16.38
		40185	2549.5	100% RB	100 Pos 0	19.50	1	17.56	19.50	2	16.53
				1RB Low	1 Pos 0	19.50	0	17.79	19.50	1	17.48
				1RB Mid	1 Pos 50	19.50	0	17.78	19.50	1	17.44
				1RB High	1 Pos 99	19.50	0	17.71	19.50	1	17.37
				50% RB Low	50 Pos 0	19.50	1	16.86	19.50	2	15.82
				50% RB Mid	50 Pos 24	19.50	1	16.77	19.50	2	15.80
		40620	2593	50% RB High	50 Pos 50	19.50	1	16.72	19.50	2	15.74
				100% RB	100 Pos 0	19.50	1	16.76	19.50	2	15.75
				1RB Low	1 Pos 0	19.50	0	18.20	19.50	1	17.14
				1RB Mid	1 Pos 50	19.50	0	18.41	19.50	1	17.37
				1RB High	1 Pos 99	19.50	0	18.45	19.50	1	17.42
				50% RB Low	50 Pos 0	19.50	1	17.29	19.50	2	16.19
		41055	2636.5	50% RB Mid	50 Pos 24	19.50	1	17.29	19.50	2	16.31
				50% RB High	50 Pos 50	19.50	1	17.42	19.50	2	16.42
				100% RB	100 Pos 0	19.50	1	17.37	19.50	2	16.31
				1RB Low	1 Pos 0	19.50	0	18.72	19.50	1	17.90
				1RB Mid	1 Pos 50	19.50	0	18.99	19.50	1	18.19
				1RB High	1 Pos 99	19.50	0	19.09	19.50	1	18.26
		41490	2680	50% RB Low	50 Pos 0	19.50	1	17.97	19.50	2	16.93
				50% RB Mid	50 Pos 24	19.50	1	18.01	19.50	2	17.08
				50% RB High	50 Pos 50	19.50	1	18.08	19.50	2	17.13
				100% RB	100 Pos 0	19.50	1	17.95	19.50	2	16.98
				1RB Low	1 Pos 0	19.50	0	18.42	19.50	1	17.10
				1RB Mid	1 Pos 50	19.50	0	18.35	19.50	1	17.03
				1RB High	1 Pos 99	19.50	0	18.24	19.50	1	16.92
				50% RB Low	50 Pos 0	19.50	1	17.37	19.50	2	16.38
				50% RB Mid	50 Pos 24	19.50	1	17.41	19.50	2	16.43
				50% RB High	50 Pos 50	19.50	1	17.37	19.50	2	16.39
				100% RB	100 Pos 0	19.50	1	17.42	19.50	2	16.40

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	15 MHz	39750	2506	1RB Low	1 Pos 0	19.50	0	18.77	19.50	1	18.07
				1RB Mid	1 Pos 38	19.50	0	18.51	19.50	1	17.84
				1RB High	1 Pos 74	19.50	0	18.20	19.50	1	17.55
				50% RB Low	38 Pos 0	19.50	1	17.57	19.50	2	16.59
				50% RB Mid	38 Pos 19	19.50	1	17.47	19.50	2	16.55
				50% RB High	38 Pos 39	19.50	1	17.33	19.50	2	16.41
		40185	2549.5	100% RB	75 Pos 0	19.50	1	17.51	19.50	2	16.52
				1RB Low	1 Pos 0	19.50	0	17.84	19.50	1	16.82
				1RB Mid	1 Pos 38	19.50	0	17.76	19.50	1	16.80
				1RB High	1 Pos 74	19.50	0	17.71	19.50	1	16.78
				50% RB Low	38 Pos 0	19.50	1	16.70	19.50	2	15.71
				50% RB Mid	38 Pos 19	19.50	1	16.72	19.50	2	15.71
		40620	2593	50% RB High	38 Pos 39	19.50	1	16.75	19.50	2	15.73
				100% RB	75 Pos 0	19.50	1	16.71	19.50	2	15.71
				1RB Low	1 Pos 0	19.50	0	18.10	19.50	1	17.54
				1RB Mid	1 Pos 38	19.50	0	18.31	19.50	1	17.69
				1RB High	1 Pos 74	19.50	0	18.39	19.50	1	17.74
				50% RB Low	38 Pos 0	19.50	1	17.19	19.50	2	16.21
		41055	2636.5	50% RB Mid	38 Pos 19	19.50	1	17.31	19.50	2	16.27
				50% RB High	38 Pos 39	19.50	1	17.33	19.50	2	16.40
				100% RB	75 Pos 0	19.50	1	17.31	19.50	2	16.36
				1RB Low	1 Pos 0	19.50	0	18.90	19.50	1	17.90
				1RB Mid	1 Pos 38	19.50	0	19.09	19.50	1	18.06
				1RB High	1 Pos 74	19.50	0	19.18	19.50	1	18.16
		41490	2680.0	50% RB Low	38 Pos 0	19.50	1	17.88	19.50	2	16.87
				50% RB Mid	38 Pos 19	19.50	1	18.00	19.50	2	16.95
				50% RB High	38 Pos 39	19.50	1	18.07	19.50	2	17.08
				100% RB	75 Pos 0	19.50	1	17.95	19.50	2	17.01
				1RB Low	1 Pos 0	19.50	0	18.45	19.50	1	17.53
				1RB Mid	1 Pos 38	19.50	0	18.41	19.50	1	17.46
				1RB High	1 Pos 74	19.50	0	18.32	19.50	1	17.35
				50% RB Low	38 Pos 0	19.50	1	17.40	19.50	2	16.42
				50% RB Mid	38 Pos 19	19.50	1	17.34	19.50	2	16.36
				50% RB High	38 Pos 39	19.50	1	17.38	19.50	2	16.41
				100% RB	75 Pos 0	19.50	1	17.37	19.50	2	16.34

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	10 MHz	39750	2506	1RB Low	1 Pos 0	19.50	0	18.69	19.50	1	18.01
				1RB Mid	1 Pos 24	19.50	0	18.54	19.50	1	17.90
				1RB High	1 Pos 49	19.50	0	18.25	19.50	1	17.66
				50% RB Low	25 Pos 0	19.50	1	17.56	19.50	2	16.62
				50% RB Mid	25 Pos 12	19.50	1	17.49	19.50	2	16.64
				50% RB High	25 Pos 24	19.50	1	17.49	19.50	2	16.55
		40185	2549.5	100% RB	50 Pos 0	19.50	1	17.51	19.50	2	16.55
				1RB Low	1 Pos 0	19.50	0	17.79	19.50	1	16.72
				1RB Mid	1 Pos 24	19.50	0	17.74	19.50	1	16.65
				1RB High	1 Pos 49	19.50	0	17.74	19.50	1	16.65
				50% RB Low	25 Pos 0	19.50	1	16.82	19.50	2	15.81
				50% RB Mid	25 Pos 12	19.50	1	16.79	19.50	2	15.71
		40620	2593	50% RB High	25 Pos 24	19.50	1	16.75	19.50	2	15.75
				100% RB	50 Pos 0	19.50	1	16.79	19.50	2	15.78
				1RB Low	1 Pos 0	19.50	0	18.34	19.50	1	17.33
				1RB Mid	1 Pos 24	19.50	0	18.37	19.50	1	17.40
				1RB High	1 Pos 49	19.50	0	18.44	19.50	1	17.48
				50% RB Low	25 Pos 0	19.50	1	17.29	19.50	2	16.32
		41055	2636.5	50% RB Mid	25 Pos 12	19.50	1	17.33	19.50	2	16.34
				100% RB	50 Pos 0	19.50	1	17.41	19.50	2	16.41
				1RB Low	1 Pos 0	19.50	1	17.35	19.50	2	16.33
				1RB Mid	1 Pos 24	19.50	0	18.90	19.50	1	18.23
				1RB High	1 Pos 49	19.50	0	19.01	19.50	1	18.29
				50% RB Low	25 Pos 0	19.50	0	19.14	19.50	1	18.40
		41490	2680	50% RB Mid	25 Pos 12	19.50	1	17.95	19.50	2	17.09
				100% RB	50 Pos 0	19.50	1	17.98	19.50	2	17.11
				1RB Low	1 Pos 0	19.50	1	18.06	19.50	2	17.10
				1RB Mid	1 Pos 24	19.50	1	18.03	19.50	2	16.99
				1RB High	1 Pos 49	19.50	0	18.47	19.50	1	17.30
				50% RB Low	25 Pos 0	19.50	0	18.41	19.50	1	17.27
				50% RB Mid	25 Pos 12	19.50	0	18.37	19.50	1	17.29
				100% RB	50 Pos 0	19.50	1	17.39	19.50	2	16.39
				1RB Low	1 Pos 0	19.50	1	17.37	19.50	2	16.36
				1RB Mid	1 Pos 24	19.50	1	17.38	19.50	2	16.38
				1RB High	1 Pos 49	19.50	1	17.36	19.50	2	16.34

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	5.0 MHz	39750	2506	1RB Low	1 Pos 0	19.50	0	18.65	19.50	1	18.01
				1RB Mid	1 Pos 12	19.50	0	18.57	19.50	1	17.92
				1RB High	1 Pos 24	19.50	0	18.48	19.50	1	17.83
				50% RB Low	12 Pos 0	19.50	1	17.58	19.50	2	16.53
				50% RB Mid	12 Pos 6	19.50	1	17.54	19.50	2	16.49
				50% RB High	12 Pos 11	19.50	1	17.53	19.50	2	16.48
		40185	2549.5	100% RB	25 Pos 0	19.50	1	17.57	19.50	2	16.56
				1RB Low	1 Pos 0	19.50	0	17.77	19.50	1	17.06
				1RB Mid	1 Pos 12	19.50	0	17.70	19.50	1	16.96
				1RB High	1 Pos 24	19.50	0	17.75	19.50	1	16.97
				50% RB Low	12 Pos 0	19.50	1	16.74	19.50	2	15.78
				50% RB Mid	12 Pos 6	19.50	1	16.76	19.50	2	15.75
		40620	2593	50% RB High	12 Pos 11	19.50	1	16.72	19.50	2	15.80
				100% RB	25 Pos 0	19.50	1	16.78	19.50	2	15.76
				1RB Low	1 Pos 0	19.50	0	18.43	19.50	1	17.76
				1RB Mid	1 Pos 12	19.50	0	18.43	19.50	1	17.75
				1RB High	1 Pos 24	19.50	0	18.44	19.50	1	17.75
				50% RB Low	12 Pos 0	19.50	1	17.28	19.50	2	16.30
		41055	2636.5	50% RB Mid	12 Pos 6	19.50	1	17.31	19.50	2	16.29
				50% RB High	12 Pos 11	19.50	1	17.34	19.50	2	16.31
				100% RB	25 Pos 0	19.50	1	17.33	19.50	2	16.37
				1RB Low	1 Pos 0	19.50	0	18.88	19.50	1	18.19
				1RB Mid	1 Pos 12	19.50	0	18.98	19.50	1	18.19
				1RB High	1 Pos 24	19.50	0	19.02	19.50	1	18.25
		41490	2680	50% RB Low	12 Pos 0	19.50	1	17.95	19.50	2	17.03
				50% RB Mid	12 Pos 6	19.50	1	17.99	19.50	2	17.02
				50% RB High	12 Pos 11	19.50	1	18.00	19.50	2	17.04
				100% RB	25 Pos 0	19.50	1	18.02	19.50	2	17.02
				1RB Low	1 Pos 0	19.50	0	18.40	19.50	1	17.59
				1RB Mid	1 Pos 12	19.50	0	18.36	19.50	1	17.54
				1RB High	1 Pos 24	19.50	0	18.42	19.50	1	17.53
				50% RB Low	12 Pos 0	19.50	1	17.31	19.50	2	16.28
				50% RB Mid	12 Pos 6	19.50	1	17.35	19.50	2	16.27
				50% RB High	12 Pos 11	19.50	1	17.32	19.50	2	16.28
				100% RB	25 Pos 0	19.50	1	17.36	19.50	2	16.32

B.2.2.1 LTE Band 41 TDD – Tablet Mode – Antenna 5

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	20 MHz	39750	2506	1RB Low	1 Pos 0	16.00	0	15.76	16.00	1	14.95
				1RB Mid	1 Pos 50	16.00	0	15.46	16.00	1	14.64
				1RB High	1 Pos 99	16.00	0	15.06	16.00	1	14.21
				50% RB Low	50 Pos 0	16.00	1	14.61	16.00	2	13.58
				50% RB Mid	50 Pos 24	16.00	1	14.49	16.00	2	13.47
				50% RB High	50 Pos 50	16.00	1	14.30	16.00	2	13.28
				100% RB	100 Pos 0	16.00	1	14.45	16.00	2	13.41
		40185	2549.5	1RB Low	1 Pos 0	16.00	0	14.67	16.00	1	13.83
				1RB Mid	1 Pos 50	16.00	0	14.75	16.00	1	13.89
				1RB High	1 Pos 99	16.00	0	14.58	16.00	1	13.78
				50% RB Low	50 Pos 0	16.00	1	13.74	16.00	2	12.75
				50% RB Mid	50 Pos 24	16.00	1	13.76	16.00	2	12.74
				50% RB High	50 Pos 50	16.00	1	13.68	16.00	2	12.60
				100% RB	100 Pos 0	16.00	1	13.73	16.00	2	12.71
		40620	2593	1RB Low	1 Pos 0	16.00	0	15.09	16.00	1	14.26
				1RB Mid	1 Pos 50	16.00	0	15.35	16.00	1	14.55
				1RB High	1 Pos 99	16.00	0	15.39	16.00	1	14.58
				50% RB Low	50 Pos 0	16.00	1	14.21	16.00	2	13.18
				50% RB Mid	50 Pos 24	16.00	1	14.28	16.00	2	13.25
				50% RB High	50 Pos 50	16.00	1	14.36	16.00	2	13.34
				100% RB	100 Pos 0	16.00	1	14.29	16.00	2	13.26
		41055	2636.5	1RB Low	1 Pos 0	16.00	0	15.70	16.00	1	14.90
				1RB Mid	1 Pos 50	16.00	0	15.99	16.00	1	14.08
				1RB High	1 Pos 99	16.00	0	15.07	16.00	1	14.19
				50% RB Low	50 Pos 0	16.00	1	14.83	16.00	2	13.84
				50% RB Mid	50 Pos 24	16.00	1	13.92	16.00	2	13.92
				50% RB High	50 Pos 50	16.00	1	13.99	16.00	2	12.97
				100% RB	100 Pos 0	16.00	1	14.93	16.00	2	13.85
		41490	2680	1RB Low	1 Pos 0	16.00	0	15.30	16.00	1	14.51
				1RB Mid	1 Pos 50	16.00	0	15.32	16.00	1	14.49
				1RB High	1 Pos 99	16.00	0	15.19	16.00	1	14.33
				50% RB Low	50 Pos 0	16.00	1	14.33	16.00	2	13.32
				50% RB Mid	50 Pos 24	16.00	1	14.32	16.00	2	13.31
				50% RB High	50 Pos 50	16.00	1	14.35	16.00	2	13.30
				100% RB	100 Pos 0	16.00	1	14.33	16.00	2	13.28

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	15 MHz	39750	2506	1RB Low	1 Pos 0	16.00	0	15.69	16.00	1	14.99
				1RB Mid	1 Pos 38	16.00	0	15.40	16.00	1	14.74
				1RB High	1 Pos 74	16.00	0	15.13	16.00	1	14.45
				50% RB Low	38 Pos 0	16.00	1	14.53	16.00	2	13.52
				50% RB Mid	38 Pos 19	16.00	1	14.44	16.00	2	13.45
				50% RB High	38 Pos 39	16.00	1	14.34	16.00	2	13.32
		40185	2549.5	100% RB	75 Pos 0	16.00	1	14.44	16.00	2	13.42
				1RB Low	1 Pos 0	16.00	0	14.69	16.00	1	13.98
				1RB Mid	1 Pos 38	16.00	0	14.58	16.00	1	14.00
				1RB High	1 Pos 74	16.00	0	14.64	16.00	1	13.97
				50% RB Low	38 Pos 0	16.00	1	13.69	16.00	2	12.70
				50% RB Mid	38 Pos 19	16.00	1	13.67	16.00	2	12.73
		40620	2593	50% RB High	38 Pos 39	16.00	1	13.64	16.00	2	12.63
				100% RB	75 Pos 0	16.00	1	13.61	16.00	2	12.62
				1RB Low	1 Pos 0	16.00	0	15.08	16.00	1	14.42
				1RB Mid	1 Pos 38	16.00	0	15.27	16.00	1	14.62
				1RB High	1 Pos 74	16.00	0	15.30	16.00	1	14.66
				50% RB Low	38 Pos 0	16.00	1	14.19	16.00	2	13.14
		41055	2636.5	50% RB Mid	38 Pos 19	16.00	1	14.21	16.00	2	13.21
				50% RB High	38 Pos 39	16.00	1	14.30	16.00	2	13.27
				100% RB	75 Pos 0	16.00	1	14.30	16.00	2	13.25
				1RB Low	1 Pos 0	16.00	0	15.74	16.00	1	13.97
				1RB Mid	1 Pos 38	16.00	0	15.97	16.00	1	14.19
				1RB High	1 Pos 74	16.00	0	14.96	16.00	1	14.30
		41490	2680.0	50% RB Low	38 Pos 0	16.00	1	14.80	16.00	2	13.80
				50% RB Mid	38 Pos 19	16.00	1	14.91	16.00	2	13.92
				50% RB High	38 Pos 39	16.00	1	14.99	16.00	2	14.00
				100% RB	75 Pos 0	16.00	1	14.92	16.00	2	13.92
				1RB Low	1 Pos 0	16.00	0	15.33	16.00	1	14.69
				1RB Mid	1 Pos 38	16.00	0	15.29	16.00	1	14.64
				1RB High	1 Pos 74	16.00	0	15.24	16.00	1	14.55
				50% RB Low	38 Pos 0	16.00	1	14.36	16.00	2	13.32
				50% RB Mid	38 Pos 19	16.00	1	14.22	16.00	2	13.24
				50% RB High	38 Pos 39	16.00	1	14.30	16.00	2	13.29
				100% RB	75 Pos 0	16.00	1	14.32	16.00	2	13.27

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	10 MHz	39750	2506	1RB Low	1 Pos 0	16.00	0	15.59	16.00	1	14.95
				1RB Mid	1 Pos 24	16.00	0	15.50	16.00	1	14.79
				1RB High	1 Pos 49	16.00	0	15.26	16.00	1	14.53
				50% RB Low	25 Pos 0	16.00	1	14.54	16.00	2	13.58
				50% RB Mid	25 Pos 12	16.00	1	14.44	16.00	2	13.54
				50% RB High	25 Pos 24	16.00	1	14.37	16.00	2	13.42
		40185	2549.5	100% RB	50 Pos 0	16.00	1	14.45	16.00	2	13.46
				1RB Low	1 Pos 0	16.00	0	14.73	16.00	1	14.04
				1RB Mid	1 Pos 24	16.00	0	14.65	16.00	1	13.99
				1RB High	1 Pos 49	16.00	0	14.71	16.00	1	13.99
				50% RB Low	25 Pos 0	16.00	1	13.81	16.00	2	12.79
				50% RB Mid	25 Pos 12	16.00	1	13.62	16.00	2	12.78
		40620	2593	50% RB High	25 Pos 24	16.00	1	13.65	16.00	2	12.72
				100% RB	50 Pos 0	16.00	0	15.59	16.00	1	14.95
				1RB Low	1 Pos 0	16.00	0	15.18	16.00	1	14.50
				1RB Mid	1 Pos 24	16.00	0	15.33	16.00	1	14.64
				1RB High	1 Pos 49	16.00	0	15.33	16.00	1	14.67
				50% RB Low	25 Pos 0	16.00	1	14.20	16.00	2	13.26
		41055	2636.5	50% RB Mid	25 Pos 12	16.00	1	14.23	16.00	2	13.31
				100% RB	50 Pos 0	16.00	1	14.30	16.00	2	13.35
				1RB Low	1 Pos 0	16.00	1	14.30	16.00	2	13.21
				1RB Mid	1 Pos 24	16.00	0	15.83	16.00	1	14.11
				1RB High	1 Pos 49	16.00	0	16.00	16.00	1	14.24
				50% RB Low	25 Pos 0	16.00	0	14.96	16.00	1	14.26
		41490	2680	50% RB Mid	25 Pos 12	16.00	1	14.90	16.00	2	13.98
				100% RB	50 Pos 0	16.00	1	14.90	16.00	2	13.99
				1RB Low	1 Pos 0	16.00	1	14.96	16.00	2	13.00
				1RB Mid	1 Pos 24	16.00	1	14.98	16.00	2	13.92
				1RB High	1 Pos 49	16.00	0	15.32	16.00	1	14.64
				50% RB Low	25 Pos 0	16.00	0	15.32	16.00	1	14.63
				50% RB Mid	25 Pos 12	16.00	0	15.28	16.00	1	14.62
				100% RB	50 Pos 0	16.00	1	14.28	16.00	2	13.34
				1RB Low	1 Pos 0	16.00	1	14.25	16.00	2	13.32
				1RB Mid	1 Pos 24	16.00	1	14.29	16.00	2	13.37
				1RB High	1 Pos 49	16.00	1	14.31	16.00	2	13.30

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	5.0 MHz	39750	2506	1RB Low	1 Pos 0	16.00	0	15.56	16.00	1	14.96
				1RB Mid	1 Pos 12	16.00	0	15.52	16.00	1	14.85
				1RB High	1 Pos 24	16.00	0	15.39	16.00	1	14.74
				50% RB Low	12 Pos 0	16.00	1	14.49	16.00	2	13.44
				50% RB Mid	12 Pos 6	16.00	1	14.47	16.00	2	13.39
				50% RB High	12 Pos 11	16.00	1	14.44	16.00	2	13.34
		40185	2549.5	100% RB	25 Pos 0	16.00	1	14.48	16.00	2	13.45
				1RB Low	1 Pos 0	16.00	0	14.80	16.00	1	14.07
				1RB Mid	1 Pos 12	16.00	0	14.71	16.00	1	14.04
				1RB High	1 Pos 24	16.00	0	14.71	16.00	1	14.03
				50% RB Low	12 Pos 0	16.00	1	13.73	16.00	2	12.61
				50% RB Mid	12 Pos 6	16.00	1	13.68	16.00	2	12.58
		40620	2593	50% RB High	12 Pos 11	16.00	1	13.66	16.00	2	12.58
				100% RB	25 Pos 0	16.00	1	13.69	16.00	2	12.71
				1RB Low	1 Pos 0	16.00	0	15.22	16.00	1	14.71
				1RB Mid	1 Pos 12	16.00	0	15.26	16.00	1	14.75
				1RB High	1 Pos 24	16.00	0	15.26	16.00	1	14.71
				50% RB Low	12 Pos 0	16.00	1	14.29	16.00	2	13.20
		41055	2636.5	50% RB Mid	12 Pos 6	16.00	1	14.28	16.00	2	13.18
				50% RB High	12 Pos 11	16.00	1	14.28	16.00	2	13.19
				100% RB	25 Pos 0	16.00	1	14.31	16.00	2	13.28
				1RB Low	1 Pos 0	16.00	0	15.89	16.00	1	14.16
				1RB Mid	1 Pos 12	16.00	0	16.00	16.00	1	14.28
				1RB High	1 Pos 24	16.00	0	15.02	16.00	1	14.30
		41490	2680	50% RB Low	12 Pos 0	16.00	1	14.94	16.00	2	13.86
				50% RB Mid	12 Pos 6	16.00	1	14.92	16.00	2	13.85
				50% RB High	12 Pos 11	16.00	1	15.00	16.00	2	13.89
				100% RB	25 Pos 0	16.00	1	14.98	16.00	2	13.93
				1RB Low	1 Pos 0	16.00	0	15.26	16.00	1	14.67
				1RB Mid	1 Pos 12	16.00	0	15.21	16.00	1	14.70
				1RB High	1 Pos 24	16.00	0	15.25	16.00	1	14.68
				50% RB Low	12 Pos 0	16.00	1	14.30	16.00	2	13.21
				50% RB Mid	12 Pos 6	16.00	1	14.29	16.00	2	13.19
				50% RB High	12 Pos 11	16.00	1	14.29	16.00	2	13.23
				100% RB	25 Pos 0	16.00	1	14.30	16.00	2	13.27

B.2.2.2 LTE Band 41 TDD – Tablet Mode – Antenna 8

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	20 MHz	39750	2506	1RB Low	1 Pos 0	18.50	0	17.17	18.50	1	16.30
				1RB Mid	1 Pos 50	18.50	0	17.30	18.50	1	16.48
				1RB High	1 Pos 99	18.50	0	17.26	18.50	1	16.39
				50% RB Low	50 Pos 0	18.50	1	16.27	18.50	2	15.26
				50% RB Mid	50 Pos 24	18.50	1	16.32	18.50	2	15.30
				50% RB High	50 Pos 50	18.50	1	16.26	18.50	2	15.26
				100% RB	100 Pos 0	18.50	1	16.28	18.50	2	15.25
		40185	2549.5	1RB Low	1 Pos 0	18.50	0	17.25	18.50	1	16.40
				1RB Mid	1 Pos 50	18.50	0	17.26	18.50	1	16.43
				1RB High	1 Pos 99	18.50	0	17.19	18.50	1	16.32
				50% RB Low	50 Pos 0	18.50	1	16.31	18.50	2	15.32
				50% RB Mid	50 Pos 24	18.50	1	16.29	18.50	2	15.29
				50% RB High	50 Pos 50	18.50	1	16.13	18.50	2	15.33
				100% RB	100 Pos 0	18.50	1	16.28	18.50	2	15.26
		40620	2593	1RB Low	1 Pos 0	18.50	0	17.49	18.50	1	16.69
				1RB Mid	1 Pos 50	18.50	0	17.71	18.50	1	16.88
				1RB High	1 Pos 99	18.50	0	17.56	18.50	1	16.76
				50% RB Low	50 Pos 0	18.50	1	16.59	18.50	2	15.60
				50% RB Mid	50 Pos 24	18.50	1	16.61	18.50	2	15.58
				50% RB High	50 Pos 50	18.50	1	16.61	18.50	2	15.58
				100% RB	100 Pos 0	18.50	1	16.60	18.50	2	15.56
		41055	2636.5	1RB Low	1 Pos 0	18.50	0	17.48	18.50	1	16.11
				1RB Mid	1 Pos 50	18.50	0	17.64	18.50	1	16.30
				1RB High	1 Pos 99	18.50	0	17.56	18.50	1	16.26
				50% RB Low	50 Pos 0	18.50	1	16.48	18.50	2	15.48
				50% RB Mid	50 Pos 24	18.50	1	16.55	18.50	2	15.60
				50% RB High	50 Pos 50	18.50	1	16.60	18.50	2	15.62
				100% RB	100 Pos 0	18.50	1	16.54	18.50	2	15.52
		41490	2680	1RB Low	1 Pos 0	18.50	0	17.22	18.50	1	16.40
				1RB Mid	1 Pos 50	18.50	0	17.34	18.50	1	16.52
				1RB High	1 Pos 99	18.50	0	17.24	18.50	1	16.44
				50% RB Low	50 Pos 0	18.50	1	16.38	18.50	2	15.35
				50% RB Mid	50 Pos 24	18.50	1	16.37	18.50	2	15.30
				50% RB High	50 Pos 50	18.50	1	16.34	18.50	2	15.28
				100% RB	100 Pos 0	18.50	1	16.35	18.50	2	15.31

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	15 MHz	39750	2506	1RB Low	1 Pos 0	18.50	0	17.19	18.50	1	16.51
				1RB Mid	1 Pos 38	18.50	0	17.29	18.50	1	16.58
				1RB High	1 Pos 74	18.50	0	17.22	18.50	1	16.55
				50% RB Low	38 Pos 0	18.50	1	16.20	18.50	2	15.16
				50% RB Mid	38 Pos 19	18.50	1	16.23	18.50	2	15.24
				50% RB High	38 Pos 39	18.50	1	16.19	18.50	2	15.19
		40185	2549.5	100% RB	75 Pos 0	18.50	1	16.24	18.50	2	15.28
				1RB Low	1 Pos 0	18.50	0	17.34	18.50	1	16.34
				1RB Mid	1 Pos 38	18.50	0	17.32	18.50	1	16.31
				1RB High	1 Pos 74	18.50	0	17.27	18.50	1	16.32
				50% RB Low	38 Pos 0	18.50	1	16.25	18.50	2	15.24
				50% RB Mid	38 Pos 19	18.50	1	16.27	18.50	2	15.26
		40620	2593	50% RB High	38 Pos 39	18.50	1	16.18	18.50	2	15.17
				100% RB	75 Pos 0	18.50	1	16.25	18.50	2	15.24
				1RB Low	1 Pos 0	18.50	0	17.54	18.50	1	16.61
				1RB Mid	1 Pos 38	18.50	0	17.67	18.50	1	16.69
				1RB High	1 Pos 74	18.50	0	17.56	18.50	1	16.66
				50% RB Low	38 Pos 0	18.50	1	16.58	18.50	2	15.62
		41055	2636.5	50% RB Mid	38 Pos 19	18.50	1	16.59	18.50	2	15.58
				50% RB High	38 Pos 39	18.50	1	16.58	18.50	2	15.57
				100% RB	75 Pos 0	18.50	1	16.65	18.50	2	15.57
				1RB Low	1 Pos 0	18.50	0	17.43	18.50	1	16.75
				1RB Mid	1 Pos 38	18.50	0	17.49	18.50	1	16.85
				1RB High	1 Pos 74	18.50	0	17.58	18.50	1	16.88
		41490	2680.0	50% RB Low	38 Pos 0	18.50	1	16.44	18.50	2	15.42
				50% RB Mid	38 Pos 19	18.50	1	16.55	18.50	2	15.57
				50% RB High	38 Pos 39	18.50	1	16.55	18.50	2	15.54
				100% RB	75 Pos 0	18.50	1	16.51	18.50	2	15.48
				1RB Low	1 Pos 0	18.50	0	17.31	18.50	1	16.61
				1RB Mid	1 Pos 38	18.50	0	17.32	18.50	1	16.62
				1RB High	1 Pos 74	18.50	0	17.24	18.50	1	16.60
				50% RB Low	38 Pos 0	18.50	1	16.29	18.50	2	15.27
				50% RB Mid	38 Pos 19	18.50	1	16.26	18.50	2	15.29
				50% RB High	38 Pos 39	18.50	1	16.31	18.50	2	15.30
				100% RB	75 Pos 0	18.50	1	16.32	18.50	2	15.30

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	10 MHz	39750	2506	1RB Low	1 Pos 0	18.50	0	17.23	18.50	1	16.55
				1RB Mid	1 Pos 24	18.50	0	17.31	18.50	1	16.60
				1RB High	1 Pos 49	18.50	0	17.24	18.50	1	16.57
				50% RB Low	25 Pos 0	18.50	1	16.28	18.50	2	15.32
				50% RB Mid	25 Pos 12	18.50	1	16.26	18.50	2	15.34
				50% RB High	25 Pos 24	18.50	1	16.26	18.50	2	15.33
		40185	2549.5	100% RB	50 Pos 0	18.50	1	16.27	18.50	2	15.22
				1RB Low	1 Pos 0	18.50	0	17.34	18.50	1	16.21
				1RB Mid	1 Pos 24	18.50	0	17.30	18.50	1	16.16
				1RB High	1 Pos 49	18.50	0	17.31	18.50	1	16.17
				50% RB Low	25 Pos 0	18.50	1	16.27	18.50	2	15.29
				50% RB Mid	25 Pos 12	18.50	1	16.24	18.50	2	15.25
		40620	2593	50% RB High	25 Pos 24	18.50	1	16.20	18.50	2	15.18
				100% RB	50 Pos 0	18.50	1	16.28	18.50	2	15.27
				1RB Low	1 Pos 0	18.50	0	17.58	18.50	1	16.89
				1RB Mid	1 Pos 24	18.50	0	17.65	18.50	1	16.96
				1RB High	1 Pos 49	18.50	0	17.60	18.50	1	16.92
				50% RB Low	25 Pos 0	18.50	1	16.62	18.50	2	15.64
		41055	2636.5	50% RB Mid	25 Pos 12	18.50	1	16.57	18.50	2	15.63
				100% RB	50 Pos 0	18.50	1	16.59	18.50	2	15.64
				1RB Low	1 Pos 0	18.50	1	16.61	18.50	2	15.57
				1RB Mid	1 Pos 24	18.50	0	17.57	18.50	1	16.41
				1RB High	1 Pos 49	18.50	0	17.64	18.50	1	16.46
				50% RB Low	25 Pos 0	18.50	0	17.57	18.50	1	16.48
		41490	2680	50% RB Mid	25 Pos 12	18.50	1	16.52	18.50	2	15.51
				100% RB	50 Pos 0	18.50	1	16.52	18.50	2	15.51
				1RB Low	1 Pos 0	18.50	1	16.55	18.50	2	15.55
				1RB Mid	1 Pos 24	18.50	1	16.59	18.50	2	15.56
				1RB High	1 Pos 49	18.50	0	17.35	18.50	1	16.36
				50% RB Low	25 Pos 0	18.50	0	17.35	18.50	1	16.38
				50% RB Mid	25 Pos 12	18.50	0	17.36	18.50	1	16.42
				100% RB	50 Pos 0	18.50	1	16.31	18.50	2	15.32
				1RB Low	1 Pos 0	18.50	1	16.32	18.50	2	15.34
				1RB Mid	1 Pos 24	18.50	1	16.30	18.50	2	15.31
				1RB High	1 Pos 49	18.50	1	16.31	18.50	2	15.29

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE41	5.0 MHz	39750	2506	1RB Low	1 Pos 0	18.50	0	17.32	18.50	1	16.66
				1RB Mid	1 Pos 12	18.50	0	17.34	18.50	1	16.68
				1RB High	1 Pos 24	18.50	0	17.34	18.50	1	16.62
				50% RB Low	12 Pos 0	18.50	1	16.27	18.50	2	15.21
				50% RB Mid	12 Pos 6	18.50	1	16.25	18.50	2	15.21
				50% RB High	12 Pos 11	18.50	1	16.26	18.50	2	15.20
		40185	2549.5	100% RB	25 Pos 0	18.50	1	16.28	18.50	2	15.29
				1RB Low	1 Pos 0	18.50	0	17.32	18.50	1	16.57
				1RB Mid	1 Pos 12	18.50	0	17.22	18.50	1	16.50
				1RB High	1 Pos 24	18.50	0	17.24	18.50	1	16.51
				50% RB Low	12 Pos 0	18.50	1	16.32	18.50	2	15.31
				50% RB Mid	12 Pos 6	18.50	1	16.20	18.50	2	15.23
		40620	2593	50% RB High	12 Pos 11	18.50	1	16.24	18.50	2	15.25
				100% RB	25 Pos 0	18.50	1	16.31	18.50	2	15.23
				1RB Low	1 Pos 0	18.50	0	17.73	18.50	1	16.91
				1RB Mid	1 Pos 12	18.50	0	17.72	18.50	1	16.89
				1RB High	1 Pos 24	18.50	0	17.71	18.50	1	16.86
				50% RB Low	12 Pos 0	18.50	1	16.64	18.50	2	15.58
		41055	2636.5	50% RB Mid	12 Pos 6	18.50	1	16.63	18.50	2	15.53
				50% RB High	12 Pos 11	18.50	1	16.59	18.50	2	15.53
				100% RB	25 Pos 0	18.50	1	16.63	18.50	2	15.57
				1RB Low	1 Pos 0	18.50	0	17.50	18.50	1	16.91
				1RB Mid	1 Pos 12	18.50	0	17.57	18.50	1	16.96
				1RB High	1 Pos 24	18.50	0	17.58	18.50	1	16.95
		41490	2680	50% RB Low	12 Pos 0	18.50	1	16.54	18.50	2	15.45
				50% RB Mid	12 Pos 6	18.50	1	16.52	18.50	2	15.47
				50% RB High	12 Pos 11	18.50	1	16.57	18.50	2	15.49
				100% RB	25 Pos 0	18.50	1	16.58	18.50	2	15.55
				1RB Low	1 Pos 0	18.50	0	17.31	18.50	1	16.57
				1RB Mid	1 Pos 12	18.50	0	17.34	18.50	1	16.60
				1RB High	1 Pos 24	18.50	0	17.34	18.50	1	16.58
				50% RB Low	12 Pos 0	18.50	1	16.32	18.50	2	15.31
				50% RB Mid	12 Pos 6	18.50	1	16.30	18.50	2	15.33
				50% RB High	12 Pos 11	18.50	1	16.32	18.50	2	15.34
				100% RB	25 Pos 0	18.50	1	16.34	18.50	2	15.32

B.2.2.3 LTE Band 48 TDD – Tablet Mode – Antenna 8

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE 48	20 MHz	55340	3560	1RB Low	1 Pos 0	14.50	0	13.77	14.50	1	12.96
				1RB Mid	1 Pos 50	14.50	0	14.07	14.50	1	13.20
				1RB High	1 Pos 99	14.50	0	14.08	14.50	1	13.13
				50% RB Low	50 Pos 0	14.50	1	12.95	14.50	2	11.98
				50% RB Mid	50 Pos 24	14.50	1	12.98	14.50	2	11.95
				50% RB High	50 Pos 50	14.50	1	13.00	14.50	2	11.98
				100% RB	100 Pos 0	14.50	1	12.97	14.50	2	12.00
		55990	3625	1RB Low	1 Pos 0	14.50	0	14.06	14.50	1	13.13
				1RB Mid	1 Pos 50	14.50	0	14.28	14.50	1	13.31
				1RB High	1 Pos 99	14.50	0	14.05	14.50	1	13.30
				50% RB Low	50 Pos 0	14.50	1	13.23	14.50	2	12.24
				50% RB Mid	50 Pos 24	14.50	1	13.15	14.50	2	12.16
				50% RB High	50 Pos 50	14.50	1	13.17	14.50	2	12.16
				100% RB	100 Pos 0	14.50	1	13.16	14.50	2	12.15
		56640	3690	1RB Low	1 Pos 0	14.50	0	14.25	14.50	1	13.42
				1RB Mid	1 Pos 50	14.50	0	14.28	14.50	1	13.50
				1RB High	1 Pos 99	14.50	0	14.18	14.50	1	13.48
				50% RB Low	50 Pos 0	14.50	1	13.37	14.50	2	12.39
				50% RB Mid	50 Pos 24	14.50	1	13.35	14.50	2	12.36
				50% RB High	50 Pos 50	14.50	1	13.25	14.50	2	12.31
				100% RB	100 Pos 0	14.50	1	13.30	14.50	2	12.30
	15 MHz	55315	3557.5	1RB Low	1 Pos 0	14.50	0	13.74	14.50	1	12.82
				1RB Mid	1 Pos 38	14.50	0	13.94	14.50	1	13.04
				1RB High	1 Pos 74	14.50	0	13.96	14.50	1	13.13
				50% RB Low	38 Pos 0	14.50	1	12.87	14.50	2	11.94
				50% RB Mid	38 Pos 19	14.50	1	12.91	14.50	2	11.95
				50% RB High	38 Pos 39	14.50	1	12.96	14.50	2	12.01
				100% RB	75 Pos 0	14.50	1	12.96	14.50	2	12.02
		55990	3625	1RB Low	1 Pos 0	14.50	0	14.06	14.50	1	13.40
				1RB Mid	1 Pos 38	14.50	0	14.21	14.50	1	13.50
				1RB High	1 Pos 74	14.50	0	14.24	14.50	1	13.50
				50% RB Low	38 Pos 0	14.50	1	13.14	14.50	2	12.12
				50% RB Mid	38 Pos 19	14.50	1	13.10	14.50	2	12.08
				50% RB High	38 Pos 39	14.50	1	13.18	14.50	2	12.08
				100% RB	75 Pos 0	14.50	1	13.17	14.50	2	12.18
		56665	3692.5	1RB Low	1 Pos 0	14.50	0	14.16	14.50	1	13.40
				1RB Mid	1 Pos 38	14.50	0	14.31	14.50	1	13.45
				1RB High	1 Pos 74	14.50	0	14.22	14.50	1	12.39
				50% RB Low	38 Pos 0	14.50	1	13.39	14.50	2	12.50
				50% RB Mid	38 Pos 19	14.50	1	13.30	14.50	2	12.37
				50% RB High	38 Pos 39	14.50	1	13.21	14.50	2	12.32
				100% RB	75 Pos 0	14.50	1	13.29	14.50	2	12.50
	10 MHz	55290	3555	1RB Low	1 Pos 0	14.50	0	13.92	14.50	1	13.02
				1RB Mid	1 Pos 24	14.50	0	13.98	14.50	1	13.12
				1RB High	1 Pos 49	14.50	0	14.07	14.50	1	13.22
				50% RB Low	25 Pos 0	14.50	1	12.90	14.50	2	11.91
				50% RB Mid	25 Pos 12	14.50	1	12.95	14.50	2	12.00
				50% RB High	25 Pos 25	14.50	1	12.97	14.50	2	11.99
				100% RB	50 Pos0	14.50	1	12.94	14.50	2	11.97
		55990	3625	1RB Low	1 Pos 0	14.50	0	14.01	14.50	1	13.20
				1RB Mid	1 Pos 24	14.50	0	14.06	14.50	1	13.24
				1RB High	1 Pos 49	14.50	0	14.18	14.50	1	13.35
				50% RB Low	25 Pos 0	14.50	1	13.08	14.50	2	12.15
				50% RB Mid	25 Pos 12	14.50	1	13.13	14.50	2	12.13
				50% RB High	25 Pos 25	14.50	1	13.14	14.50	2	12.14
				100% RB	50 Pos0	14.50	1	13.15	14.50	2	12.13
		56690	3695	1RB Low	1 Pos 0	14.50	0	14.35	14.50	1	13.46
				1RB Mid	1 Pos 24	14.50	0	14.31	14.50	1	13.43
				1RB High	1 Pos 49	14.50	0	14.28	14.50	1	13.39
				50% RB Low	25 Pos 0	14.50	1	13.35	14.50	2	12.34
				50% RB Mid	25 Pos 12	14.50	1	13.32	14.50	2	12.33
				50% RB High	25 Pos 25	14.50	1	13.32	14.50	2	12.31
				100% RB	50 Pos0	14.50	1	13.36	14.50	2	12.32

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE 48	5 MHz	55265	3552.5	1RB Low	1 Pos 0	14.50	0	14.02	14.50	1	13.11
				1RB Mid	1 Pos 12	14.50	0	14.06	14.50	1	13.17
				1RB High	1 Pos 24	14.50	0	14.10	14.50	1	13.16
				50% RB Low	12 Pos 0	14.50	1	13.02	14.50	2	12.03
				50% RB Mid	12 Pos 6	14.50	1	13.01	14.50	2	12.02
				50% RB High	12 Pos 11	14.50	1	13.00	14.50	2	12.05
		55990	3625	100% RB	25 Pos 0	14.50	1	13.02	14.50	2	11.96
				1RB Low	1 Pos 0	14.50	0	14.10	14.50	1	13.49
				1RB Mid	1 Pos 12	14.50	0	14.16	14.50	1	13.48
				1RB High	1 Pos 24	14.50	0	14.15	14.50	1	13.50
				50% RB Low	12 Pos 0	14.50	1	13.08	14.50	2	12.16
				50% RB Mid	12 Pos 6	14.50	1	13.12	14.50	2	12.17
		56715	3697.5	50% RB High	12 Pos 11	14.50	1	13.16	14.50	2	12.16
				100% RB	25 Pos 0	14.50	1	13.15	14.50	2	12.19
				1RB Low	1 Pos 0	14.50	0	14.45	14.50	1	13.44
				1RB Mid	1 Pos 12	14.50	0	14.42	14.50	1	13.47
				1RB High	1 Pos 24	14.50	0	14.40	14.50	1	13.50
				50% RB Low	12 Pos 0	14.50	1	13.33	14.50	2	12.39
				50% RB Mid	12 Pos 6	14.50	1	13.28	14.50	2	12.28
				50% RB High	12 Pos 11	14.50	1	13.30	14.50	2	12.25
				100% RB	25 Pos 0	14.50	1	13.32	14.50	2	12.32

B.2.2.4 LTE Band 66 FDD – Laptop Mode – Antenna 5

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE66	20 MHz	132072	1720	1RB Low	1 Pos 0	21.00	0	20.22	21.00	1	19.37
				1RB Mid	1 Pos 50	21.00	0	20.27	21.00	1	19.43
				1RB High	1 Pos 99	21.00	0	20.23	21.00	1	19.40
				50% RB Low	50 Pos 0	21.00	1	19.24	21.00	2	18.16
				50% RB Mid	50 Pos 24	21.00	1	19.33	21.00	2	18.27
				50% RB High	50 Pos 50	21.00	1	19.25	21.00	2	18.24
				100% RB	100 Pos 0	21.00	1	19.30	21.00	2	18.28
		132322	1745	1RB Low	1 Pos 0	21.00	0	20.17	21.00	1	19.72
				1RB Mid	1 Pos 50	21.00	0	20.27	21.00	1	19.78
				1RB High	1 Pos 99	21.00	0	20.27	21.00	1	19.81
				50% RB Low	50 Pos 0	21.00	1	19.39	21.00	2	18.34
				50% RB Mid	50 Pos 24	21.00	1	19.35	21.00	2	18.33
				50% RB High	50 Pos 50	21.00	1	19.30	21.00	2	18.27
				100% RB	100 Pos 0	21.00	1	19.35	21.00	2	18.30
		132572	1770	1RB Low	1 Pos 0	21.00	0	20.23	21.00	1	19.36
				1RB Mid	1 Pos 50	21.00	0	20.33	21.00	1	19.46
				1RB High	1 Pos 99	21.00	0	20.25	21.00	1	19.39
				50% RB Low	50 Pos 0	21.00	1	19.41	21.00	2	18.36
				50% RB Mid	50 Pos 24	21.00	1	19.40	21.00	2	18.40
				50% RB High	50 Pos 50	21.00	1	19.42	21.00	2	18.37
				100% RB	100 Pos 0	21.00	1	19.35	21.00	2	18.32
	15 MHz	132047	1717.5	1RB Low	1 Pos 0	21.00	0	20.31	21.00	1	19.77
				1RB Mid	1 Pos 38	21.00	0	20.35	21.00	1	19.79
				1RB High	1 Pos 74	21.00	0	20.29	21.00	1	19.76
				50% RB Low	38 Pos 0	21.00	1	19.23	21.00	2	18.19
				50% RB Mid	38 Pos 19	21.00	1	19.28	21.00	2	18.26
				50% RB High	38 Pos 39	21.00	1	19.30	21.00	2	18.25
				100% RB	75 Pos 0	21.00	1	19.24	21.00	2	18.26
		132422	1755	1RB Low	1 Pos 0	21.00	0	20.19	21.00	1	19.43
				1RB Mid	1 Pos 38	21.00	0	20.22	21.00	1	19.48
				1RB High	1 Pos 74	21.00	0	20.26	21.00	1	19.50
				50% RB Low	38 Pos 0	21.00	1	19.35	21.00	2	18.36
				50% RB Mid	38 Pos 19	21.00	1	19.32	21.00	2	18.35
				50% RB High	38 Pos 39	21.00	1	19.28	21.00	2	18.29
				100% RB	75 Pos 0	21.00	1	19.31	21.00	2	18.29
		132597	1772.5	1RB Low	1 Pos 0	21.00	0	20.34	21.00	1	19.31
				1RB Mid	1 Pos 38	21.00	0	20.37	21.00	1	19.35
				1RB High	1 Pos 74	21.00	0	20.32	21.00	1	19.31
				50% RB Low	38 Pos 0	21.00	1	19.31	21.00	2	18.30
				50% RB Mid	38 Pos 19	21.00	1	19.33	21.00	2	18.29
				50% RB High	38 Pos 39	21.00	1	19.33	21.00	2	18.30
				100% RB	75 Pos 0	21.00	1	19.33	21.00	2	18.32
	10 MHz	132022	1715	1RB Low	1 Pos 0	21.00	0	20.38	21.00	1	19.79
				1RB Mid	1 Pos 24	21.00	0	20.36	21.00	1	19.77
				1RB High	1 Pos 49	21.00	0	20.36	21.00	1	19.77
				50% RB Low	25 Pos 0	21.00	1	19.23	21.00	2	18.29
				50% RB Mid	25 Pos 12	21.00	1	19.31	21.00	2	18.34
				50% RB High	25 Pos 24	21.00	1	19.33	21.00	2	18.39
				100% RB	50 Pos 0	21.00	1	19.31	21.00	2	18.31
		132422	1755	1RB Low	1 Pos 0	21.00	0	20.27	21.00	1	19.07
				1RB Mid	1 Pos 24	21.00	0	20.31	21.00	1	19.12
				1RB High	1 Pos 49	21.00	0	20.35	21.00	1	19.17
				50% RB Low	25 Pos 0	21.00	1	19.33	21.00	2	18.46
				50% RB Mid	25 Pos 12	21.00	1	19.35	21.00	2	18.44
				50% RB High	25 Pos 24	21.00	1	19.30	21.00	2	18.38
				100% RB	50 Pos 0	21.00	1	19.37	21.00	2	18.37
		132622	1775	1RB Low	1 Pos 0	21.00	0	20.38	21.00	1	19.34
				1RB Mid	1 Pos 24	21.00	0	20.31	21.00	1	19.33
				1RB High	1 Pos 49	21.00	0	20.34	21.00	1	19.34
				50% RB Low	25 Pos 0	21.00	1	19.32	21.00	2	18.33
				50% RB Mid	25 Pos 12	21.00	1	19.27	21.00	2	18.33
				50% RB High	25 Pos 24	21.00	1	19.34	21.00	2	18.35
				100% RB	50 Pos 0	21.00	1	19.35	21.00	2	18.35

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE66	5.0 MHz	131997	1712.5	1RB Low	1 Pos 0	21.00	0	20.48	21.00	1	19.14
				1RB Mid	1 Pos 12	21.00	0	20.45	21.00	1	19.09
				1RB High	1 Pos 24	21.00	0	20.47	21.00	1	19.09
				50% RB Low	12 Pos 0	21.00	1	19.31	21.00	2	18.32
				50% RB Mid	12 Pos 6	21.00	1	19.28	21.00	2	18.24
				50% RB High	12 Pos 11	21.00	1	19.30	21.00	2	18.25
				100% RB	25 Pos 0	21.00	1	19.27	21.00	2	18.34
		132422	1755	1RB Low	1 Pos 0	21.00	0	20.37	21.00	1	19.22
				1RB Mid	1 Pos 12	21.00	0	20.31	21.00	1	19.16
				1RB High	1 Pos 24	21.00	0	20.35	21.00	1	19.20
				50% RB Low	12 Pos 0	21.00	1	19.32	21.00	2	18.27
				50% RB Mid	12 Pos 6	21.00	1	19.33	21.00	2	18.21
				50% RB High	12 Pos 11	21.00	1	19.28	21.00	2	18.21
				100% RB	25 Pos 0	21.00	1	19.30	21.00	2	18.33
		132647	1777.5	1RB Low	1 Pos 0	21.00	0	20.29	21.00	1	19.46
				1RB Mid	1 Pos 12	21.00	0	20.35	21.00	1	19.49
				1RB High	1 Pos 24	21.00	0	20.35	21.00	1	19.52
				50% RB Low	12 Pos 0	21.00	1	19.33	21.00	2	18.36
				50% RB Mid	12 Pos 6	21.00	1	19.33	21.00	2	18.32
				50% RB High	12 Pos 11	21.00	1	19.33	21.00	2	18.32
	3.0 MHz	131987	1711.5	100% RB	25 Pos 0	21.00	1	19.33	21.00	2	18.33
				1RB Low	1 Pos 0	21.00	0	20.39	21.00	1	19.79
				1RB Mid	1 Pos 7	21.00	0	20.35	21.00	1	19.77
				1RB High	1 Pos 14	21.00	0	20.30	21.00	1	19.73
				50% RB Low	8 Pos 0	21.00	1	19.28	21.00	2	18.45
				50% RB Mid	8 Pos 4	21.00	1	19.29	21.00	2	18.40
		132422	1755	50% RB High	8 Pos 7	21.00	1	19.22	21.00	2	18.41
				100% RB	15 Pos 0	21.00	1	19.27	21.00	2	18.31
				1RB Low	1 Pos 0	21.00	0	20.35	21.00	1	19.80
				1RB Mid	1 Pos 7	21.00	0	20.29	21.00	1	19.77
				1RB High	1 Pos 14	21.00	0	20.31	21.00	1	19.76
				50% RB Low	8 Pos 0	21.00	1	19.28	21.00	2	18.47
		132657	1778.5	50% RB Mid	8 Pos 4	21.00	1	19.27	21.00	2	18.43
				50% RB High	8 Pos 7	21.00	1	19.26	21.00	2	18.43
				100% RB	15 Pos 0	21.00	1	19.31	21.00	2	18.36
				1RB Low	1 Pos 0	21.00	0	20.36	21.00	1	19.85
				1RB Mid	1 Pos 7	21.00	0	20.36	21.00	1	19.84
				1RB High	1 Pos 14	21.00	0	20.34	21.00	1	19.79
	1.4 MHz	131979	1710	50% RB Low	8 Pos 0	21.00	1	19.32	21.00	2	18.48
				50% RB Mid	8 Pos 4	21.00	1	19.33	21.00	2	18.49
				50% RB High	8 Pos 7	21.00	1	19.31	21.00	2	18.49
				100% RB	15 Pos 0	21.00	1	19.31	21.00	2	18.39
				1RB Low	1 Pos 0	21.00	0	20.30	21.00	1	18.98
				1RB Mid	1 Pos 2	21.00	0	20.29	21.00	1	18.99
		132422	1755	1RB High	1 Pos 5	21.00	0	20.27	21.00	1	18.98
				50% RB Low	3 Pos 0	21.00	0	20.29	21.00	1	19.39
				50% RB Mid	3 Pos 1	21.00	0	20.29	21.00	1	19.41
				50% RB High	3 Pos 2	21.00	0	20.28	21.00	1	19.40
				100% RB	6 Pos 0	21.00	1	19.29	21.00	2	18.23
				1RB Low	1 Pos 0	21.00	0	20.32	21.00	1	19.00
		132665	1779.3	1RB Mid	1 Pos 2	21.00	0	20.27	21.00	1	19.00
				1RB High	1 Pos 5	21.00	0	20.23	21.00	1	18.94
				50% RB Low	3 Pos 0	21.00	0	20.32	21.00	1	19.38
				50% RB Mid	3 Pos 1	21.00	0	20.28	21.00	1	19.39
				50% RB High	3 Pos 2	21.00	0	20.27	21.00	1	19.40
				100% RB	6 Pos 0	21.00	1	19.28	21.00	2	18.22
		132665	1779.3	1RB Low	1 Pos 0	21.00	0	20.28	21.00	1	19.05
				1RB Mid	1 Pos 2	21.00	0	20.33	21.00	1	19.03
				1RB High	1 Pos 5	21.00	0	20.31	21.00	1	19.05
				50% RB Low	3 Pos 0	21.00	0	20.35	21.00	1	19.40
				50% RB Mid	3 Pos 1	21.00	0	20.34	21.00	1	19.42
				50% RB High	3 Pos 2	21.00	0	20.30	21.00	1	19.42
				100% RB	6 Pos 0	21.00	1	19.34	21.00	2	18.27

B.2.2.5 LTE Band 66 FDD – Tablet Mode – Antenna 5

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE66	20 MHz	132072	1720	1RB Low	1 Pos 0	16.50	0	16.08	16.50	1	15.33
				1RB Mid	1 Pos 50	16.50	0	16.17	16.50	1	15.41
				1RB High	1 Pos 99	16.50	0	16.13	16.50	1	15.36
				50% RB Low	50 Pos 0	16.50	1	15.10	16.50	2	14.12
				50% RB Mid	50 Pos 24	16.50	1	15.19	16.50	2	14.23
				50% RB High	50 Pos 50	16.50	1	15.19	16.50	2	14.15
				100% RB	100 Pos 0	16.50	1	15.20	16.50	2	14.14
		132322	1745	1RB Low	1 Pos 0	16.50	0	16.04	16.50	1	15.30
				1RB Mid	1 Pos 50	16.50	0	16.17	16.50	1	15.42
				1RB High	1 Pos 99	16.50	0	16.13	16.50	1	15.39
				50% RB Low	50 Pos 0	16.50	1	15.22	16.50	2	14.21
				50% RB Mid	50 Pos 24	16.50	1	15.29	16.50	2	14.26
				50% RB High	50 Pos 50	16.50	1	15.22	16.50	2	14.17
				100% RB	100 Pos 0	16.50	1	15.21	16.50	2	14.19
		132572	1770	1RB Low	1 Pos 0	16.50	0	16.07	16.50	1	15.33
				1RB Mid	1 Pos 50	16.50	0	16.21	16.50	1	15.47
				1RB High	1 Pos 99	16.50	0	16.14	16.50	1	15.34
				50% RB Low	50 Pos 0	16.50	1	15.25	16.50	2	14.28
				50% RB Mid	50 Pos 24	16.50	1	15.28	16.50	2	14.28
				50% RB High	50 Pos 50	16.50	1	15.33	16.50	2	14.30
				100% RB	100 Pos 0	16.50	1	15.28	16.50	2	14.25
	15 MHz	132047	1717.5	1RB Low	1 Pos 0	16.50	0	16.10	16.50	1	15.46
				1RB Mid	1 Pos 38	16.50	0	16.14	16.50	1	15.48
				1RB High	1 Pos 74	16.50	0	16.09	16.50	1	15.44
				50% RB Low	38 Pos 0	16.50	1	15.08	16.50	2	14.13
				50% RB Mid	38 Pos 19	16.50	1	15.21	16.50	2	14.20
				50% RB High	38 Pos 39	16.50	1	15.22	16.50	2	14.18
				100% RB	75 Pos 0	16.50	1	15.17	16.50	2	14.19
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.11	16.50	1	15.42
				1RB Mid	1 Pos 38	16.50	0	16.12	16.50	1	15.47
				1RB High	1 Pos 74	16.50	0	16.11	16.50	1	15.49
				50% RB Low	38 Pos 0	16.50	1	15.28	16.50	2	14.26
				50% RB Mid	38 Pos 19	16.50	1	15.25	16.50	2	14.21
				50% RB High	38 Pos 39	16.50	1	15.20	16.50	2	14.16
				100% RB	75 Pos 0	16.50	1	15.22	16.50	2	14.24
		132597	1772.5	1RB Low	1 Pos 0	16.50	0	16.08	16.50	1	15.48
				1RB Mid	1 Pos 38	16.50	0	16.18	16.50	1	15.50
				1RB High	1 Pos 74	16.50	0	16.10	16.50	1	15.47
				50% RB Low	38 Pos 0	16.50	1	15.23	16.50	2	14.18
				50% RB Mid	38 Pos 19	16.50	1	15.24	16.50	2	14.22
				50% RB High	38 Pos 39	16.50	1	15.22	16.50	2	14.28
				100% RB	75 Pos 0	16.50	1	15.28	16.50	2	14.23
	10 MHz	132022	1715	1RB Low	1 Pos 0	16.50	0	16.15	16.50	1	15.48
				1RB Mid	1 Pos 24	16.50	0	16.17	16.50	1	15.47
				1RB High	1 Pos 49	16.50	0	16.13	16.50	1	15.45
				50% RB Low	25 Pos 0	16.50	1	15.14	16.50	2	14.17
				50% RB Mid	25 Pos 12	16.50	1	15.20	16.50	2	14.24
				50% RB High	25 Pos 24	16.50	1	15.24	16.50	2	14.28
				100% RB	50 Pos 0	16.50	1	15.21	16.50	2	14.22
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.17	16.50	1	15.49
				1RB Mid	1 Pos 24	16.50	0	16.16	16.50	1	15.50
				1RB High	1 Pos 49	16.50	0	16.18	16.50	1	15.50
				50% RB Low	25 Pos 0	16.50	1	15.27	16.50	2	14.33
				50% RB Mid	25 Pos 12	16.50	1	15.29	16.50	2	14.29
				50% RB High	25 Pos 24	16.50	1	15.21	16.50	2	14.25
				100% RB	50 Pos 0	16.50	1	15.31	16.50	2	14.25
		132622	1775	1RB Low	1 Pos 0	16.50	0	16.19	16.50	1	15.50
				1RB Mid	1 Pos 24	16.50	0	16.19	16.50	1	15.49
				1RB High	1 Pos 49	16.50	0	16.17	16.50	1	15.48
				50% RB Low	25 Pos 0	16.50	1	15.19	16.50	2	14.24
				50% RB Mid	25 Pos 12	16.50	1	15.23	16.50	2	14.26
				50% RB High	25 Pos 24	16.50	1	15.26	16.50	2	14.31
				100% RB	50 Pos 0	16.50	1	15.26	16.50	2	14.19

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE66	5.0 MHz	131997	1712.5	1RB Low	1 Pos 0	16.50	0	16.27	16.50	1	15.50
				1RB Mid	1 Pos 12	16.50	0	16.25	16.50	1	15.50
				1RB High	1 Pos 24	16.50	0	16.22	16.50	1	15.50
				50% RB Low	12 Pos 0	16.50	1	15.19	16.50	2	14.15
				50% RB Mid	12 Pos 6	16.50	1	15.21	16.50	2	14.14
				50% RB High	12 Pos 11	16.50	1	15.21	16.50	2	14.17
				100% RB	25 Pos 0	16.50	1	15.21	16.50	2	14.22
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.25	16.50	1	15.50
				1RB Mid	1 Pos 12	16.50	0	16.24	16.50	1	15.50
				1RB High	1 Pos 24	16.50	0	16.24	16.50	1	15.50
				50% RB Low	12 Pos 0	16.50	1	15.23	16.50	2	14.21
				50% RB Mid	12 Pos 6	16.50	1	15.23	16.50	2	14.19
				50% RB High	12 Pos 11	16.50	1	15.20	16.50	2	14.17
				100% RB	25 Pos 0	16.50	1	15.28	16.50	2	14.26
		132647	1777.5	1RB Low	1 Pos 0	16.50	0	16.23	16.50	1	15.50
				1RB Mid	1 Pos 12	16.50	0	16.33	16.50	1	15.50
				1RB High	1 Pos 24	16.50	0	16.25	16.50	1	15.50
				50% RB Low	12 Pos 0	16.50	1	15.23	16.50	2	14.22
				50% RB Mid	12 Pos 6	16.50	1	15.20	16.50	2	14.18
				50% RB High	12 Pos 11	16.50	1	15.23	16.50	2	14.16
				100% RB	25 Pos 0	16.50	1	15.24	16.50	2	14.25
	3.0 MHz	131987	1711.5	1RB Low	1 Pos 0	16.50	0	16.13	16.50	1	15.49
				1RB Mid	1 Pos 7	16.50	0	16.18	16.50	1	15.50
				1RB High	1 Pos 14	16.50	0	16.03	16.50	1	15.43
				50% RB Low	8 Pos 0	16.50	1	15.17	16.50	2	14.20
				50% RB Mid	8 Pos 4	16.50	1	15.19	16.50	2	14.22
				50% RB High	8 Pos 7	16.50	1	15.18	16.50	2	14.18
				100% RB	15 Pos 0	16.50	1	15.16	16.50	2	14.15
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.16	16.50	1	15.50
				1RB Mid	1 Pos 7	16.50	0	16.14	16.50	1	15.48
				1RB High	1 Pos 14	16.50	0	16.09	16.50	1	15.49
				50% RB Low	8 Pos 0	16.50	1	15.24	16.50	2	14.24
				50% RB Mid	8 Pos 4	16.50	1	15.23	16.50	2	14.22
				50% RB High	8 Pos 7	16.50	1	15.25	16.50	2	14.25
				100% RB	15 Pos 0	16.50	1	15.24	16.50	2	14.17
		132657	1778.5	1RB Low	1 Pos 0	16.50	0	16.16	16.50	1	15.50
				1RB Mid	1 Pos 7	16.50	0	16.21	16.50	1	15.50
				1RB High	1 Pos 14	16.50	0	16.15	16.50	1	15.50
				50% RB Low	8 Pos 0	16.50	1	15.26	16.50	2	14.26
				50% RB Mid	8 Pos 4	16.50	1	15.24	16.50	2	14.28
				50% RB High	8 Pos 7	16.50	1	15.22	16.50	2	14.25
				100% RB	15 Pos 0	16.50	1	15.25	16.50	2	14.19
	1.4 MHz	131979	1710	1RB Low	1 Pos 0	16.50	0	16.24	16.50	1	15.22
				1RB Mid	1 Pos 2	16.50	0	16.29	16.50	1	15.32
				1RB High	1 Pos 5	16.50	0	16.24	16.50	1	15.26
				50% RB Low	3 Pos 0	16.50	0	16.14	16.50	1	15.36
				50% RB Mid	3 Pos 1	16.50	0	16.17	16.50	1	15.38
				50% RB High	3 Pos 2	16.50	0	16.20	16.50	1	15.37
				100% RB	6 Pos 0	16.50	1	15.21	16.50	2	14.17
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.24	16.50	1	15.24
				1RB Mid	1 Pos 2	16.50	0	16.28	16.50	1	15.29
				1RB High	1 Pos 5	16.50	0	16.19	16.50	1	15.20
				50% RB Low	3 Pos 0	16.50	0	16.20	16.50	1	15.37
				50% RB Mid	3 Pos 1	16.50	0	16.16	16.50	1	15.34
				50% RB High	3 Pos 2	16.50	0	16.16	16.50	1	15.35
				100% RB	6 Pos 0	16.50	1	15.17	16.50	2	14.21
		132665	1779.3	1RB Low	1 Pos 0	16.50	0	16.23	16.50	1	15.27
				1RB Mid	1 Pos 2	16.50	0	16.30	16.50	1	15.33
				1RB High	1 Pos 5	16.50	0	16.21	16.50	1	15.24
				50% RB Low	3 Pos 0	16.50	0	16.18	16.50	1	15.39
				50% RB Mid	3 Pos 1	16.50	0	16.21	16.50	1	15.41
				50% RB High	3 Pos 2	16.50	0	16.20	16.50	1	15.40
				100% RB	6 Pos 0	16.50	1	15.24	16.50	2	14.24

B.2.2.6 LTE Band 66 FDD – Tablet Mode – Antenna 8

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE66	20 MHz	132072	1720	1RB Low	1 Pos 0	16.50	0	15.64	16.50	1	14.89
				1RB Mid	1 Pos 50	16.50	0	15.79	16.50	1	15.03
				1RB High	1 Pos 99	16.50	0	15.77	16.50	1	15.02
				50% RB Low	50 Pos 0	16.50	1	14.78	16.50	2	13.79
				50% RB Mid	50 Pos 24	16.50	1	14.83	16.50	2	13.81
				50% RB High	50 Pos 50	16.50	1	14.95	16.50	2	13.91
				100% RB	100 Pos 0	16.50	1	14.85	16.50	2	13.81
		132322	1745	1RB Low	1 Pos 0	16.50	0	15.86	16.50	1	15.08
				1RB Mid	1 Pos 50	16.50	0	15.95	16.50	1	15.22
				1RB High	1 Pos 99	16.50	0	16.00	16.50	1	15.21
				50% RB Low	50 Pos 0	16.50	1	15.09	16.50	2	14.13
				50% RB Mid	50 Pos 24	16.50	1	15.05	16.50	2	14.07
				50% RB High	50 Pos 50	16.50	1	15.08	16.50	2	14.02
				100% RB	100 Pos 0	16.50	1	15.12	16.50	2	14.05
		132572	1770	1RB Low	1 Pos 0	16.50	0	15.91	16.50	1	15.15
				1RB Mid	1 Pos 50	16.50	0	16.06	16.50	1	15.29
				1RB High	1 Pos 99	16.50	0	15.91	16.50	1	15.12
				50% RB Low	50 Pos 0	16.50	1	15.02	16.50	2	14.00
				50% RB Mid	50 Pos 24	16.50	1	15.16	16.50	2	14.08
				50% RB High	50 Pos 50	16.50	1	15.04	16.50	2	14.01
				100% RB	100 Pos 0	16.50	1	14.98	16.50	2	13.99
	15 MHz	132047	1717.5	1RB Low	1 Pos 0	16.50	0	15.66	16.50	1	15.01
				1RB Mid	1 Pos 38	16.50	0	15.74	16.50	1	15.09
				1RB High	1 Pos 74	16.50	0	15.74	16.50	1	15.09
				50% RB Low	38 Pos 0	16.50	1	14.76	16.50	2	13.72
				50% RB Mid	38 Pos 19	16.50	1	14.79	16.50	2	13.79
				50% RB High	38 Pos 39	16.50	1	14.79	16.50	2	13.85
				100% RB	75 Pos 0	16.50	1	14.81	16.50	2	13.79
		132422	1755	1RB Low	1 Pos 0	16.50	0	15.86	16.50	1	15.22
				1RB Mid	1 Pos 38	16.50	0	15.93	16.50	1	15.29
				1RB High	1 Pos 74	16.50	0	15.91	16.50	1	15.30
				50% RB Low	38 Pos 0	16.50	1	15.07	16.50	2	14.04
				50% RB Mid	38 Pos 19	16.50	1	15.06	16.50	2	14.04
				50% RB High	38 Pos 39	16.50	1	15.05	16.50	2	14.01
				100% RB	75 Pos 0	16.50	1	15.09	16.50	2	14.05
		132597	1772.5	1RB Low	1 Pos 0	16.50	0	15.95	16.50	1	15.30
				1RB Mid	1 Pos 38	16.50	0	15.97	16.50	1	15.33
				1RB High	1 Pos 74	16.50	0	15.89	16.50	1	15.24
				50% RB Low	38 Pos 0	16.50	1	15.05	16.50	2	14.03
				50% RB Mid	38 Pos 19	16.50	1	15.07	16.50	2	14.04
				50% RB High	38 Pos 39	16.50	1	14.96	16.50	2	13.95
				100% RB	75 Pos 0	16.50	1	15.03	16.50	2	14.00
	10 MHz	132022	1715	1RB Low	1 Pos 0	16.50	0	15.75	16.50	1	15.06
				1RB Mid	1 Pos 24	16.50	0	15.79	16.50	1	15.08
				1RB High	1 Pos 49	16.50	0	15.74	16.50	1	15.07
				50% RB Low	25 Pos 0	16.50	1	14.76	16.50	2	13.82
				50% RB Mid	25 Pos 12	16.50	1	14.77	16.50	2	13.85
				50% RB High	25 Pos 24	16.50	1	14.83	16.50	2	13.86
				100% RB	50 Pos 0	16.50	1	14.86	16.50	2	13.79
		132422	1755	1RB Low	1 Pos 0	16.50	0	15.97	16.50	1	15.25
				1RB Mid	1 Pos 24	16.50	0	15.99	16.50	1	15.30
				1RB High	1 Pos 49	16.50	0	16.01	16.50	1	15.34
				50% RB Low	25 Pos 0	16.50	1	15.04	16.50	2	14.17
				50% RB Mid	25 Pos 12	16.50	1	15.07	16.50	2	14.12
				50% RB High	25 Pos 24	16.50	1	15.06	16.50	2	14.10
				100% RB	50 Pos 0	16.50	1	15.11	16.50	2	14.05
		132622	1775	1RB Low	1 Pos 0	16.50	0	16.00	16.50	1	15.34
				1RB Mid	1 Pos 24	16.50	0	15.99	16.50	1	15.31
				1RB High	1 Pos 49	16.50	0	15.97	16.50	1	15.33
				50% RB Low	25 Pos 0	16.50	1	15.00	16.50	2	14.06
				50% RB Mid	25 Pos 12	16.50	1	14.98	16.50	2	14.12
				50% RB High	25 Pos 24	16.50	1	15.00	16.50	2	14.06
				100% RB	50 Pos 0	16.50	1	15.07	16.50	2	14.03

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE66	5.0 MHz	131997	1712.5	1RB Low	1 Pos 0	16.50	0	15.85	16.50	1	15.08
				1RB Mid	1 Pos 12	16.50	0	15.82	16.50	1	15.08
				1RB High	1 Pos 24	16.50	0	15.82	16.50	1	15.06
				50% RB Low	12 Pos 0	16.50	1	14.84	16.50	2	13.72
				50% RB Mid	12 Pos 6	16.50	1	14.77	16.50	2	13.75
				50% RB High	12 Pos 11	16.50	1	14.79	16.50	2	13.74
		100% RB	25 Pos 0	16.50	1	14.81	16.50	2	13.83		
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.05	16.50	1	15.35
				1RB Mid	1 Pos 12	16.50	0	16.06	16.50	1	15.33
				1RB High	1 Pos 24	16.50	0	16.07	16.50	1	15.35
				50% RB Low	12 Pos 0	16.50	1	15.04	16.50	2	14.00
				50% RB Mid	12 Pos 6	16.50	1	15.04	16.50	2	13.99
				50% RB High	12 Pos 11	16.50	1	15.03	16.50	2	13.98
		100% RB	25 Pos 0	16.50	1	15.06	16.50	2	14.06		
		132647	1777.5	1RB Low	1 Pos 0	16.50	0	16.02	16.50	1	15.26
				1RB Mid	1 Pos 12	16.50	0	16.09	16.50	1	15.30
				1RB High	1 Pos 24	16.50	0	16.08	16.50	1	15.32
				50% RB Low	12 Pos 0	16.50	1	15.03	16.50	2	13.99
	50% RB Mid			12 Pos 6	16.50	1	15.01	16.50	2	13.94	
	50% RB High			12 Pos 11	16.50	1	15.00	16.50	2	13.93	
	100% RB	25 Pos 0	16.50	1	15.03	16.50	2	14.05			
	3.0 MHz	131987	1711.5	1RB Low	1 Pos 0	16.50	0	15.69	16.50	1	15.05
				1RB Mid	1 Pos 7	16.50	0	15.75	16.50	1	15.08
				1RB High	1 Pos 14	16.50	0	15.62	16.50	1	15.02
				50% RB Low	8 Pos 0	16.50	1	14.77	16.50	2	13.77
				50% RB Mid	8 Pos 4	16.50	1	14.78	16.50	2	13.79
				50% RB High	8 Pos 7	16.50	1	14.72	16.50	2	13.74
		100% RB	15 Pos 0	16.50	1	14.75	16.50	2	13.72		
		132422	1755	1RB Low	1 Pos 0	16.50	0	15.97	16.50	1	15.29
				1RB Mid	1 Pos 7	16.50	0	15.99	16.50	1	15.33
				1RB High	1 Pos 14	16.50	0	15.89	16.50	1	15.32
				50% RB Low	8 Pos 0	16.50	1	15.03	16.50	2	14.07
				50% RB Mid	8 Pos 4	16.50	1	15.02	16.50	2	14.03
				50% RB High	8 Pos 7	16.50	1	15.05	16.50	2	14.05
		100% RB	15 Pos 0	16.50	1	15.06	16.50	2	13.96		
		132657	1778.5	1RB Low	1 Pos 0	16.50	0	15.95	16.50	1	15.32
				1RB Mid	1 Pos 7	16.50	0	15.99	16.50	1	15.34
				1RB High	1 Pos 14	16.50	0	15.90	16.50	1	15.29
				50% RB Low	8 Pos 0	16.50	1	15.00	16.50	2	14.05
	50% RB Mid			8 Pos 4	16.50	1	15.02	16.50	2	14.02	
	50% RB High			8 Pos 7	16.50	1	15.01	16.50	2	14.05	
	100% RB	15 Pos 0	16.50	1	15.05	16.50	2	13.98			
	1.4 MHz	131979	1710	1RB Low	1 Pos 0	16.50	0	15.81	16.50	1	14.79
				1RB Mid	1 Pos 2	16.50	0	15.85	16.50	1	14.87
				1RB High	1 Pos 5	16.50	0	15.82	16.50	1	14.81
				50% RB Low	3 Pos 0	16.50	0	15.71	16.50	1	14.94
				50% RB Mid	3 Pos 1	16.50	0	15.74	16.50	1	14.93
				50% RB High	3 Pos 2	16.50	0	15.75	16.50	1	14.94
		100% RB	6 Pos 0	16.50	1	14.76	16.50	2	13.76		
		132422	1755	1RB Low	1 Pos 0	16.50	0	16.07	16.50	1	15.04
				1RB Mid	1 Pos 2	16.50	0	16.06	16.50	1	15.12
				1RB High	1 Pos 5	16.50	0	16.05	16.50	1	15.02
				50% RB Low	3 Pos 0	16.50	0	16.01	16.50	1	15.19
				50% RB Mid	3 Pos 1	16.50	0	15.99	16.50	1	15.14
				50% RB High	3 Pos 2	16.50	0	15.99	16.50	1	15.18
		100% RB	6 Pos 0	16.50	1	14.97	16.50	2	13.99		
		132665	1779.3	1RB Low	1 Pos 0	16.50	0	16.04	16.50	1	15.03
				1RB Mid	1 Pos 2	16.50	0	16.10	16.50	1	15.11
				1RB High	1 Pos 5	16.50	0	16.04	16.50	1	15.05
				50% RB Low	3 Pos 0	16.50	0	15.97	16.50	1	15.17
	50% RB Mid			3 Pos 1	16.50	0	15.97	16.50	1	15.17	
	50% RB High			3 Pos 2	16.50	0	16.01	16.50	1	15.21	
	100% RB	6 Pos 0	16.50	1	15.01	16.50	2	14.02			

B.2.2.7 LTE Band 71 FDD – Laptop Mode – Antenna 5

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE71	20 MHz	133297	680.5	1RB Low	1 Pos 0	21.50	0	21.00	21.50	1	20.33
				1RB Mid	1 Pos 50	21.50	0	21.22	21.50	1	20.53
				1RB High	1 Pos 99	21.50	0	21.12	21.50	1	20.47
				50% RB Low	50 Pos 0	21.50	1	20.26	21.50	2	19.23
				50% RB Mid	50 Pos 24	21.50	1	20.26	21.50	2	19.27
				50% RB High	50 Pos 50	21.50	1	20.37	21.50	2	19.36
				100% RB	100 Pos 0	21.50	1	20.27	21.50	2	19.25
	15 MHz	133297	680.5	1RB Low	1 Pos 0	21.50	0	21.07	21.50	1	20.40
				1RB Mid	1 Pos 50	21.50	0	21.19	21.50	1	20.54
				1RB High	1 Pos 99	21.50	0	21.14	21.50	1	20.48
				50% RB Low	50 Pos 0	21.50	1	20.22	21.50	2	19.25
				50% RB Mid	50 Pos 24	21.50	1	20.23	21.50	2	19.24
				50% RB High	50 Pos 50	21.50	1	20.26	21.50	2	19.41
				100% RB	100 Pos 0	21.50	1	20.19	21.50	2	19.18
	10 MHz	133172	668	1RB Low	1 Pos 0	21.50	0	21.07	21.50	1	20.05
				1RB Mid	1 Pos 50	21.50	0	21.13	21.50	1	20.16
				1RB High	1 Pos 99	21.50	0	21.12	21.50	1	20.11
				50% RB Low	50 Pos 0	21.50	1	20.21	21.50	2	19.32
				50% RB Mid	50 Pos 24	21.50	1	20.15	21.50	2	19.26
				50% RB High	50 Pos 50	21.50	1	20.26	21.50	2	19.33
				100% RB	100 Pos 0	21.50	1	20.19	21.50	2	19.18
		133297	680.5	1RB Low	1 Pos 0	21.50	0	21.11	21.50	1	19.90
				1RB Mid	1 Pos 38	21.50	0	21.20	21.50	1	20.00
				1RB High	1 Pos 74	21.50	0	21.21	21.50	1	20.04
				50% RB Low	38 Pos 0	21.50	1	20.25	21.50	2	19.35
				50% RB Mid	38 Pos 19	21.50	1	20.22	21.50	2	19.38
				50% RB High	38 Pos 39	21.50	1	20.19	21.50	2	19.34
				100% RB	75 Pos 0	21.50	1	20.24	21.50	2	19.28
		133422	693	1RB Low	1 Pos 0	21.50	0	21.15	21.50	1	20.52
				1RB Mid	1 Pos 38	21.50	0	21.13	21.50	1	20.53
				1RB High	1 Pos 74	21.50	0	21.10	21.50	1	20.51
				50% RB Low	38 Pos 0	21.50	1	20.19	21.50	2	19.24
				50% RB Mid	38 Pos 19	21.50	1	20.16	21.50	2	19.23
				50% RB High	38 Pos 39	21.50	1	20.11	21.50	2	19.24
				100% RB	75 Pos 0	21.50	1	20.19	21.50	2	19.19
	5 MHz	133147	665.5	1RB Low	1 Pos 0	21.50	0	21.24	21.50	1	20.18
				1RB Mid	1 Pos 24	21.50	0	21.22	21.50	1	20.18
				1RB High	1 Pos 49	21.50	0	21.26	21.50	1	20.22
				50% RB Low	25 Pos 0	21.50	1	20.13	21.50	2	19.16
				50% RB Mid	25 Pos 12	21.50	1	20.14	21.50	2	19.19
				50% RB High	25 Pos 24	21.50	1	20.10	21.50	2	19.15
				100% RB	50 Pos 0	21.50	1	20.14	21.50	2	19.18
		133297	680.5	1RB Low	1 Pos 0	21.50	0	21.16	21.50	1	20.78
				1RB Mid	1 Pos 24	21.50	0	21.20	21.50	1	20.83
				1RB High	1 Pos 49	21.50	0	21.22	21.50	1	20.77
				50% RB Low	25 Pos 0	21.50	1	20.25	21.50	2	19.33
				50% RB Mid	25 Pos 12	21.50	1	20.17	21.50	2	19.26
				50% RB High	25 Pos 24	21.50	1	20.19	21.50	2	19.28
				100% RB	50 Pos 0	21.50	1	20.22	21.50	2	19.32
		133447	695.5	1RB Low	1 Pos 0	21.50	0	21.14	21.50	1	20.17
				1RB Mid	1 Pos 24	21.50	0	21.12	21.50	1	20.14
				1RB High	1 Pos 49	21.50	0	21.16	21.50	1	20.13
				50% RB Low	25 Pos 0	21.50	1	20.21	21.50	2	19.23
				50% RB Mid	25 Pos 12	21.50	1	20.13	21.50	2	19.21
				50% RB High	25 Pos 24	21.50	1	20.12	21.50	2	19.19
				100% RB	50 Pos 0	21.50	1	20.16	21.50	2	19.17

B.2.2.8 LTE Band 71 FDD – Tablet Mode – Antenna 5

Band	BW	Channel #	Freq (MHz)	% RB Allocation	RB Position	QPSK			16 QAM		
						Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)	Factory Upper Tolerance (dBm)	M P R	Measured Output Power (dBm)
LTE71	20 MHz	133297	680.5	1RB Low	1 Pos 0	19.00	0	17.91	19.00	1	17.30
				1RB Mid	1 Pos 50	19.00	0	18.07	19.00	1	17.47
				1RB High	1 Pos 99	19.00	0	18.08	19.00	1	17.51
				50% RB Low	50 Pos 0	19.00	1	16.95	19.00	2	15.94
				50% RB Mid	50 Pos 24	19.00	1	17.02	19.00	2	16.00
				50% RB High	50 Pos 50	19.00	1	16.94	19.00	2	15.92
				100% RB	100 Pos 0	19.00	1	16.93	19.00	2	15.90
	15 MHz	133297	680.5	1RB Low	1 Pos 0	19.00	0	17.93	19.00	1	17.26
				1RB Mid	1 Pos 50	19.00	0	17.94	19.00	1	17.30
				1RB High	1 Pos 99	19.00	0	17.97	19.00	1	17.44
				50% RB Low	50 Pos 0	19.00	1	16.99	19.00	2	16.02
				50% RB Mid	50 Pos 24	19.00	1	16.96	19.00	2	16.01
				50% RB High	50 Pos 50	19.00	1	17.01	19.00	2	16.09
				100% RB	100 Pos 0	19.00	1	17.01	19.00	2	16.04
	10 MHz	133172	668	1RB Low	1 Pos 0	19.00	0	18.03	19.00	1	17.45
				1RB Mid	1 Pos 50	19.00	0	18.10	19.00	1	17.48
				1RB High	1 Pos 99	19.00	0	18.09	19.00	1	17.52
				50% RB Low	50 Pos 0	19.00	1	17.14	19.00	2	16.19
				50% RB Mid	50 Pos 24	19.00	1	17.10	19.00	2	16.16
				50% RB High	50 Pos 50	19.00	1	17.16	19.00	2	16.22
				100% RB	100 Pos 0	19.00	1	17.19	19.00	2	16.17
		133297	680.5	1RB Low	1 Pos 0	19.00	0	18.09	19.00	1	17.04
				1RB Mid	1 Pos 38	19.00	0	18.20	19.00	1	17.13
				1RB High	1 Pos 74	19.00	0	18.15	19.00	1	17.12
				50% RB Low	38 Pos 0	19.00	1	17.18	19.00	2	16.28
				50% RB Mid	38 Pos 19	19.00	1	17.15	19.00	2	16.24
				50% RB High	38 Pos 39	19.00	1	17.10	19.00	2	16.22
				100% RB	75 Pos 0	19.00	1	17.21	19.00	2	16.18
		133422	693	1RB Low	1 Pos 0	19.00	0	18.04	19.00	1	17.06
				1RB Mid	1 Pos 38	19.00	0	18.06	19.00	1	17.05
				1RB High	1 Pos 74	19.00	0	18.06	19.00	1	17.08
				50% RB Low	38 Pos 0	19.00	1	17.11	19.00	2	16.17
				50% RB Mid	38 Pos 19	19.00	1	17.11	19.00	2	16.21
				50% RB High	38 Pos 39	19.00	1	17.10	19.00	2	16.20
				100% RB	75 Pos 0	19.00	1	17.11	19.00	2	16.10
	5 MHz	133147	665.5	1RB Low	1 Pos 0	19.00	0	18.06	19.00	1	17.17
				1RB Mid	1 Pos 24	19.00	0	18.06	19.00	1	17.20
				1RB High	1 Pos 49	19.00	0	18.12	19.00	1	17.26
				50% RB Low	25 Pos 0	19.00	1	16.99	19.00	2	16.01
				50% RB Mid	25 Pos 12	19.00	1	17.04	19.00	2	16.09
				50% RB High	25 Pos 24	19.00	1	17.05	19.00	2	16.07
				100% RB	50 Pos 0	19.00	1	17.01	19.00	2	15.96
		133297	680.5	1RB Low	1 Pos 0	19.00	0	18.19	19.00	1	17.28
				1RB Mid	1 Pos 24	19.00	0	18.24	19.00	1	17.35
				1RB High	1 Pos 49	19.00	0	18.21	19.00	1	17.34
				50% RB Low	25 Pos 0	19.00	1	17.14	19.00	2	16.18
				50% RB Mid	25 Pos 12	19.00	1	17.09	19.00	2	16.13
				50% RB High	25 Pos 24	19.00	1	17.08	19.00	2	16.16
				100% RB	50 Pos 0	19.00	1	17.13	19.00	2	16.14
		133447	695.5	1RB Low	1 Pos 0	19.00	0	18.09	19.00	1	17.51
				1RB Mid	1 Pos 24	19.00	0	18.10	19.00	1	17.57
				1RB High	1 Pos 49	19.00	0	18.10	19.00	1	17.58
				50% RB Low	25 Pos 0	19.00	1	17.08	19.00	2	16.18
				50% RB Mid	25 Pos 12	19.00	1	17.05	19.00	2	16.14
				50% RB High	25 Pos 24	19.00	1	17.05	19.00	2	16.17
				100% RB	50 Pos 0	19.00	1	17.10	19.00	2	16.15

B.2.3 Intra-Band Contiguous

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The UL CA mode power measurements represent the total power across both carriers.

According to November 2017 TCB workshop, the following needs to be performed: The maximum measured output power, RB allocation, CC offsets, CC channel BWs, MPR, modulation and other relevant information for all UL CA SAR configurations are required in SAR reports to support the test setup and results, including explanations, call box configurations and certain testing restriction

1) When the maximum output for UL CA is $\leq$ standalone LTE mode

- The primary carrier is configured according to the highest standalone SAR configuration tested
- The secondary carrier and subsequent CCs are configured according to procedures used for power measurement and parameters similar to that used for the PCC

2) When the Reported SAR for UL CA configuration, is > 1.2 W/kg, UL CA SAR is also required for all the other test channels.

B.2.3.1 LTE CA 5B Antenna 5 – Laptop mode:

Band	Modulation / BW	PCC			SCC			Pwr Avg (dBm)	Factory Upper Tolerance (dBm)
		Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation		
LTE 5B	QPSK / 10MHz	26775	822.5	1RB High	20476	831.6	1RB Low	21.39	21.50

B.2.3.1 LTE CA 7C Antenna 5 – Tablet mode:

Band	Modulation / BW	PCC			SCC			Pwr Avg (dBm)	Factory Upper Tolerance (dBm)
		Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation		
LTE 41C	QPSK / 20MHz	20850	2510	1RB High	21100	2535	1RB Low	15.93	16.00

B.2.3.2 LTE CA 41C Antenna 5 – Tablet mode:

Band	Modulation / BW	PCC			SCC			Pwr Avg (dBm)	Factory Upper Tolerance (dBm)
		Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation		
LTE 41C	QPSK / 20MHz	40521	2583.1	1RB High	40719	2602.9	1RB Low	15.88	16.00

B.2.3.3 LTE CA 48C Antenna 8 – Tablet mode:

Band	Modulation / BW	PCC			SCC			Pwr Avg (dBm)	Factory Upper Tolerance (dBm)
		Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation		
LTE 41C	QPSK / 20MHz	55891	3615.1	1RB High	56089	3634.9	1RB Low	14.40	14.50

B.2.3.4 LTE CA 66B, 66C Antenna 5 – Laptop mode:

Band	Modulation / BW	PCC			SCC			Pwr Avg (dBm)	Factory Upper Tolerance (dBm)
		Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation		
LTE 66B	QPSK / 10MHz	132373	1750.1	1RB High	132472	1760	1RB Low	20.56	21.00
LTE 66C	QPSK / 20MHz	132323	1745.1	1RB High	132521	1764.9	1RB Low	20.67	21.00

B.2.4 5G NR (FR1)

B.2.4.1 5G NR Band 2 FDD – Laptop / Tablet Modes – Antennas 5

SAR Measurement for 5G NR Band 2 FDD (Frequency range: 1850 – 1910MHz) is covered by 5G NR Band 25 FDD (Frequency range: 1850 – 1915MHz) due to overlapping frequency range, same maximum tune-up and same bandwidth.

B.2.4.2 5G NR (FR1) Band 2 FDD – Tablet Mode – Antenna 8

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 8		
							Frequency (MHz) / Channel		
							1860	1880	1900
							372000	376000	396000
NR2	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.50		15.71	
			QPSK	1RB Low	0	16.50		15.69	
				1RB Mid	50	16.50	15.67	15.90	15.68
				1RB High	99	16.50		15.75	
				50% RB Low	0	16.50		15.62	
				50% RB Mid	25	16.50	15.70	15.83	15.68
				50% RB High	49	16.50		15.89	
				100% RB	0	16.50		15.72	
			16QAM	1RB Low	0	16.50		15.89	
		64QAM	1RB Low	0	16.50		15.82		
		256QAM	1RB Low	0	16.50		16.10		
	CP-OFDM	QPSK	1RB Low	0	16.50		15.76		
							Frequency (MHz) / Channel		
							1857.5	1880	1880
							371500	376000	380500
	15	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.72	
				50% RB Low	0	16.50		15.75	
							Frequency (MHz) / Channel		
							1855	1880	1905
							371000	376000	381000
	10	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.64	
				50% RB Low	0	16.50		15.53	
							Frequency (MHz) / Channel		
							1900	1880	1907.5
							370500	376000	381500
	5	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.82	
				50% RB Low	0	16.50		15.77	

B.2.4.3 5G NR (FR1) Band 5 FDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm)		
							Antenna 5		
							Frequency (MHz) / Channel		
							834	836.5	839
							166800	167300	167800
NR5	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	21.00		20.40	
			QPSK	1RB Low	0	21.00		20.34	
				1RB Mid	50	21.00		20.54	
				1RB High	99	21.00		20.40	
				50% RB Low	0	21.00		20.46	
				50% RB Mid	25	21.00		20.54	
				50% RB High	49	21.00		20.54	
				100% RB	0	21.00		20.51	
			16QAM	1RB Low	0	21.00		20.62	
			64QAM	1RB Low	0	21.00		20.62	
		256QAM	1RB Low	0	21.00		20.42		
		CP-OFDM	QPSK	1RB Low	0	21.00		20.48	
							Frequency (MHz) / Channel		
							831.5	836.5	841.5
							166300	167300	168300
	15	DFS-s OFDM	QPSK	1RB Low	0	21.00		20.49	
				50% RB Low	0	21.00		20.54	
							Frequency (MHz) / Channel		
							829	836.5	844
							165800	167300	168800
	10	DFS-s OFDM	QPSK	1RB Low	0	21.00		20.31	
				50% RB Low	0	21.00		20.35	
							Frequency (MHz) / Channel		
							826.5	836.5	846.5
							165300	167300	169300
	5	DFS-s OFDM	QPSK	1RB Low	0	21.00		20.52	
				50% RB Low	0	21.00		20.58	

B.2.4.4 5G NR (FR1) Band 5 FDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm)		
							Antenna 5		
							Frequency (MHz) / Channel		
							834	836.5	839
							166800	167300	167800
NR5	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	19.00		17.88	
			QPSK	1RB Low	0	19.00		17.93	
				1RB Mid	50	19.00		17.82	
				1RB High	99	19.00		17.75	
				50% RB Low	0	19.00		17.96	
				50% RB Mid	25	19.00		17.91	
				50% RB High	49	19.00		17.84	
				100% RB	0	19.00		17.94	
			16QAM	1RB Low	0	19.00		17.74	
			64QAM	1RB Low	0	19.00		18.28	
		256QAM	1RB Low	0	19.00		17.82		
		CP-OFDM	QPSK	1RB Low	0	19.00		17.99	
							Frequency (MHz) / Channel		
							831.5	836.5	841.5
							166300	167300	168300
	15	DFS-s OFDM	QPSK	1RB Low	0	19.00		17.92	
				50% RB Low	0	19.00		17.96	
							Frequency (MHz) 23.45 / Channel		
							829	836.5	844
							165800	167300	168800
	10	DFS-s OFDM	QPSK	1RB Low	0	19.00		17.76	
				50% RB Low	0	19.00		17.84	
							Frequency (MHz) / Channel		
							826.5	836.5	846.5
							165300	167300	169300
	5	DFS-s OFDM	QPSK	1RB Low	0	19.00		17.87	
				50% RB Low	0	19.00		17.98	

B.2.4.5 5G NR (FR1) Band 7 FDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							2510	2535	2560
							502000	507000	512000
NR7	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	19.00		18.49	
			QPSK	1RB Low	0	19.00		18.51	
				1RB Mid	50	19.00		18.45	
				1RB High	99	19.00		18.53	
				50% RB Low	0	19.00		18.58	
				50% RB Mid	25	19.00		18.61	
				50% RB High	49	19.00		18.65	
				100% RB	0	19.00		18.57	
			16QAM	1RB Low	0	19.00		18.26	
			64QAM	1RB Low	0	19.00		18.94	
		256QAM	1RB Low	0	19.00		18.39		
		CP-OFDM	QPSK	1RB Low	0	19.00		18.48	
							Frequency (MHz) / Channel		
							2507.5	2535	2562.5
							501500	507000	512500
	15	DFS-s OFDM	QPSK	1RB Low	0	19.00		18.42	
				50% RB Low	0	19.00		18.47	
							Frequency (MHz) / Channel		
							2505	2535	2565
							501000	507000	513000
	10	DFS-s OFDM	QPSK	1RB Low	0	19.00		18.30	
				50% RB Low	0	19.00		18.31	
							Frequency (MHz) / Channel		
							2502.5	2535	2567.5
							500500	507000	513500
	5	DFS-s OFDM	QPSK	1RB Low	0	19.00		18.44	
				50% RB Low	0	19.00		18.48	

B.2.4.6 5G NR (FR1) Band 7 FDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							2510	2535	2560
							502000	507000	512000
NR7	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.00		15.06	
			QPSK	1RB Low	0	16.00		15.10	
				1RB Mid	50	16.00		15.11	
				1RB High	99	16.00		15.03	
				50% RB Low	0	16.00		15.22	
				50% RB Mid	25	16.00		15.20	
				50% RB High	49	16.00		15.21	
				100% RB	0	16.00		15.20	
			16QAM	1RB Low	0	16.00		14.93	
			64QAM	1RB Low	0	16.00		15.40	
		256QAM	1RB Low	0	16.00		15.10		
		CP-OFDM	QPSK	1RB Low	0	16.00		15.17	
							Frequency (MHz) / Channel		
							2507.5	2535	2562.5
							501500	507000	512500
	15	DFS-s OFDM	QPSK	1RB Low	0	16.00		15.10	
				50% RB Low	0	16.00		15.23	
							Frequency (MHz) / Channel		
							2505	2535	2565
							501000	507000	513000
	10	DFS-s OFDM	QPSK	1RB Low	0	16.00		15.01	
				50% RB Low	0	16.00		15.00	
							Frequency (MHz) / Channel		
							2502.5	2535	2567.5
							500500	507000	513500
	5	DFS-s OFDM	QPSK	1RB Low	0	16.00		15.09	
				50% RB Low	0	16.00		15.22	

B.2.4.7 5G NR (FR1) Band 25 FDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							1860	1882.5	1905
							372000	376500	381000
NR25	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	20.50		19.52	
			QPSK	1RB Low	0	20.50		19.57	
				1RB Mid	50	20.50		19.71	
				1RB High	99	20.50		19.62	
				50% RB Low	0	20.50		19.63	
				50% RB Mid	25	20.50		19.78	
				50% RB High	49	20.50		19.77	
				100% RB	0	20.50		19.75	
			16QAM	1RB Low	0	20.50		19.59	
			64QAM	1RB Low	0	20.50		19.55	
		256QAM	1RB Low	0	20.50		19.84		
		CP-OFDM	QPSK	1RB Low	0	20.50		19.60	
							Frequency (MHz) / Channel		
							1857.5	1882.5	1907.5
							371500	376500	381500
	15	DFS-s OFDM	QPSK	1RB Low	0	20.50		19.63	
				50% RB Low	0	20.50		19.67	
							Frequency (MHz) / Channel		
							1855	1882.5	1910
							371000	376500	382000
	10	DFS-s OFDM	QPSK	1RB Low	0	20.50		19.51	
				50% RB Low	0	20.50		19.56	
							Frequency (MHz) / Channel		
							1852.5	1882.5	1912.5
							370500	376500	382500
	5	DFS-s OFDM	QPSK	1RB Low	0	20.50		19.69	
				50% RB Low	0	20.50		19.78	

B.2.4.8 5G NR (FR1) Band 25 FDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							1860	1882.5	1905
							372000	376500	381000
NR25	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.50		15.48	
			QPSK	1RB Low	0	16.50		15.47	
				1RB Mid	50	16.50		15.56	
				1RB High	99	16.50		15.39	
				50% RB Low	0	16.50		15.38	
				50% RB Mid	25	16.50		15.68	
				50% RB High	49	16.50		15.61	
				100% RB	0	16.50		15.51	
			16QAM	1RB Low	0	16.50		15.35	
			64QAM	1RB Low	0	16.50		15.76	
		256QAM	1RB Low	0	16.50		15.48		
		CP-OFDM	QPSK	1RB Low	0	16.50		15.59	
							Frequency (MHz) / Channel		
							1857.5	1882.5	1907.5
							371500	376500	381500
	15	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.58	
				50% RB Low	0	16.50		15.62	
							Frequency (MHz) / Channel		
							1855	1882.5	1910
							371000	376500	382000
	10	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.42	
				50% RB Low	0	16.50		15.46	
							Frequency (MHz) / Channel		
							1852.5	1882.5	1912.5
							370500	376500	382500
	5	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.54	
				50% RB Low	0	16.50		15.63	

B.2.4.9 5G NR (FR1) Band 30 FDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5			
							Frequency (MHz) / Channel			
								2310		
46200										
18.04										
18.11										
17.59										
18.05										
18.03										
17.69										
17.94										
17.67										
18.12										
17.90										
18.14										
18.26										
Frequency (MHz) / Channel								2310		
								46200		
5	DFS-s OFDM	QPSK	1RB Low	0	18.50			18.25		
			50% RB Low	0	18.50			18.26		

B.2.4.10 5G NR (FR1) Band 30 FDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
								2310	
46200									
15.40									
15.40									
15.44									
15.44									
15.25									
15.49									
15.38									
15.34									
15.24									
15.74									
15.40									
15.48									
NR30	10	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.50			
			QPSK	1RB Low	0	16.50			
				1RB Mid	25	16.50			
				1RB High	49	16.50			
				50% RB Low	0	16.50			
				50% RB Mid	12	16.50			
				50% RB High	25	16.50			
				100% RB	0	16.50			
				16QAM	1RB Low	0	16.50		
			64QAM	1RB Low	0	16.50			
			256QAM	1RB Low	0	16.50			
		CP-OFDM	QPSK	1RB Low	0	16.50			
								Frequency (MHz) / Channel	
	5	DFS-s OFDM	QPSK	1RB Low	0	16.50		2310	
50% RB Low				0	16.50	46200			
						15.52			
						15.66			

B.2.4.11 5G NR (FR1) Band 38 TDD – Antennas 5 and 8

SAR Measurement for Band NR 38 TDD (FCC Frequency range: 2570 – 2620MHz) is covered by Band NR41 TDD (FCC Frequency range: 2496 – 2690MHz) due to overlapping frequency range, same maximum tune-up and same bandwidth.

B.2.4.12 5G NR (FR1) Band 41 TDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5				
							Frequency (MHz) / Channel				
							2546	2569.5	2593	2616.5	2640
							509200	513900	518600	523300	528000
NR41	100	DFS-s OFDM	PI/2 BPSK	1RB Low	0	18.00			16.78		
			QPSK	1RB Low	0	18.00			16.88		
				1RB Mid	136	18.00			17.76		
				1RB High	270	18.00			17.68		
				50% RB Low	0	18.00			17.56		
				50% RB Mid	68	18.00			17.49		
				50% RB High	137	18.00			18.00		
				100% RB	0	18.00			17.78		
			16QAM	1RB Low	0	18.00			16.76		
			64QAM	1RB Low	0	18.00			16.69		
		256QAM	1RB Low	0	18.00			16.69			
		CP-OFDM	QPSK	1RB Low	0	18.00			16.73		
							Frequency (MHz) / Channel				
							2541	2567	2593	2619	2645
							508200	513400	518600	523800	529000
	90	DFS-s OFDM	QPSK	1RB Low	0	18.00			16.80		
				50% RB Low	0	18.00			17.34		
							Frequency (MHz) / Channel				
							2536	2564.5	2593	2621.5	2650
							507200	512900	518600	524300	530000
	80	DFS-s OFDM	QPSK	1RB Low	0	18.00			16.83		
				50% RB Low	0	18.00			17.39		
							Frequency (MHz) / Channel				
							2526	2559.5	2593	2626.5	2660
							505200	511900	518600	525300	532000
	60	DFS-s OFDM	QPSK	1RB Low	0	18.00			17.15		
				50% RB Low	0	18.00			17.65		
							Frequency (MHz) / Channel				
							2521	2557	2593	2629	2665
							504200	511400	518600	525800	5330000
	50	DFS-s OFDM	QPSK	1RB Low	0	18.00			17.21		
				50% RB Low	0	18.00			17.69		
							Frequency (MHz) / Channel				
							2516	2554.5	2593	2631.5	2670
							503200	510900	518600	526300	534000
	40	DFS-s OFDM	QPSK	1RB Low	0	18.00			17.02		
				50% RB Low	0	18.00			17.60		
							Frequency (MHz) / Channel				
							2506	2549.5	2593	2636.5	2680
							501200	509900	518600	527300	536000
	20	DFS-s OFDM	QPSK	1RB Low	0	18.00			17.48		
				50% RB Low	0	18.00			17.85		

B.2.4.13 5G NR (FR1) Band 41 TDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 8				
							Frequency (MHz) / Channel				
							2546	2569.5	2593	2616.5	2640
							509200	513900	518600	523300	528000
NR41	100	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.00			14.52		
			QPSK	1RB Low	0	16.00			14.60		
				1RB Mid	136	16.00			15.53		
				1RB High	270	16.00			15.97		
				50% RB Low	0	16.00			15.20		
				50% RB Mid	68	16.00			15.69		
				50% RB High	137	16.00			15.99		
				100% RB	0	16.00			15.61		
			16QAM	1RB Low	0	16.00			14.76		
			64QAM	1RB Low	0	16.00			14.81		
		256QAM	1RB Low	0	16.00			14.62			
		CP-OFDM	QPSK	1RB Low	0	16.00			15.44		
							Frequency (MHz) / Channel				
							2541	2567	2593	2619	2645
							508200	513400	518600	523800	529000
	90	DFS-s OFDM	QPSK	1RB Low	0	16.00			14.44		
				50% RB Low	0	16.00			15.09		
							Frequency (MHz) / Channel				
							2536	2564.5	2593	2621.5	2650
							507200	512900	518600	524300	530000
	80	DFS-s OFDM	QPSK	1RB Low	0	16.00			14.57		
				50% RB Low	0	16.00			15.26		
							Frequency (MHz) / Channel				
							2526	2559.5	2593	2626.5	2660
							505200	511900	518600	525300	532000
	60	DFS-s OFDM	QPSK	1RB Low	0	16.00			14.96		
				50% RB Low	0	16.00			15.25		
							Frequency (MHz) / Channel				
							2521	2557	2593	2629	2665
							504200	511400	518600	525800	5330000
	50	DFS-s OFDM	QPSK	1RB Low	0	16.00			15.07		
				50% RB Low	0	16.00			14.79		
							Frequency (MHz) / Channel				
							2516	2554.5	2593	2631.5	2670
							503200	510900	518600	526300	534000
	40	DFS-s OFDM	QPSK	1RB Low	0	16.00			14.13		
				50% RB Low	0	16.00			14.68		
							Frequency (MHz) / Channel				
							2506	2549.5	2593	2636.5	2680
							501200	509900	518600	527300	536000
	20	DFS-s OFDM	QPSK	1RB Low	0	16.00			14.79		
				50% RB Low	0	16.00			14.88		

B.2.4.14 5G NR (FR1) Band 41 TDD – Tablet Mode – Antenna 8

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 8				
							Frequency (MHz) / Channel				
							2546	2569.5	2593	2616.5	2640
							509200	513900	518600	523300	528000
NR41	100	DFS-s OFDM	PI/2 BPSK	1RB Low	0	18.50			16.99		
			QPSK	1RB Low	0	18.50			16.99		
				1RB Mid	136	18.50			17.71		
				1RB High	270	18.50			17.22		
				50% RB Low	0	18.50			17.67		
				50% RB Mid	68	18.50			17.81		
				50% RB High	137	18.50			17.80		
				100% RB	0	18.50			17.66		
			16QAM	1RB Low	0	18.50			17.22		
			64QAM	1RB Low	0	18.50			17.21		
		256QAM	1RB Low	0	18.50			17.21			
		CP-OFDM	QPSK	1RB Low	0	18.50			18.04		
							Frequency (MHz) / Channel				
							2541	2567	2593	2619	2645
							508200	513400	518600	523800	529000
	90	DFS-s OFDM	QPSK	1RB Low	0	18.50			17.13		
				50% RB Low	0	18.50			17.54		
							Frequency (MHz) / Channel				
							2536	2564.5	2593	2621.5	2650
							507200	512900	518600	524300	530000
	80	DFS-s OFDM	QPSK	1RB Low	0	18.50			17.16		
				50% RB Low	0	18.50			17.59		
							Frequency (MHz) / Channel				
							2526	2559.5	2593	2626.5	2660
							505200	511900	518600	525300	532000
	60	DFS-s OFDM	QPSK	1RB Low	0	18.50			17.45		
				50% RB Low	0	18.50			17.75		
							Frequency (MHz) / Channel				
							2521	2557	2593	2629	2665
							504200	511400	518600	525800	5330000
	50	DFS-s OFDM	QPSK	1RB Low	0	18.50			17.44		
				50% RB Low	0	18.50			17.71		
							Frequency (MHz) / Channel				
							2516	2554.5	2593	2631.5	2670
							503200	510900	518600	526300	534000
	40	DFS-s OFDM	QPSK	1RB Low	0	18.50			17.28		
				50% RB Low	0	18.50			17.78		
							Frequency (MHz) / Channel				
							2506	2549.5	2593	2636.5	2680
							501200	509900	518600	527300	536000
	20	DFS-s OFDM	QPSK	1RB Low	0	18.50			17.66		
				50% RB Low	0	18.50			17.77		

B.2.4.15 5G NR (FR1) Band 66 FDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							1730	1745	1760
							346000	349000	352000
NR66	40	DFS-s OFDM	PI/2 BPSK	1RB Low	0	20.00		19.22	
			QPSK	1RB Low	0	20.00		19.23	
				1RB Mid	136	20.00		19.80	
				1RB High	270	20.00		19.11	
				50% RB Low	0	20.00		19.52	
				50% RB Mid	68	20.00		19.81	
				50% RB High	137	20.00		19.38	
				100% RB	0	20.00		19.55	
				16QAM	1RB Low	0		20.00	
			64QAM	1RB Low	0	20.00		19.10	
			256QAM	1RB Low	0	20.00		19.41	
		CP-OFDM	QPSK	1RB Low	0	20.00		19.37	
								Frequency (MHz)20.70) / Channel	
							1725	1745	1765
							345000	349000	353000
	30	DFS-s OFDM	QPSK	1RB Low	0	20.00		19.45	
				50% RB Low	0	20.00		19.53	
							Frequency (MHz) / Channel		
							1720	1745	1770
							344000	349000	354000
	20	DFS-s OFDM	QPSK	1RB Low	0	20.00		19.60	
				50% RB Low	0	20.00		19.62	
							Frequency (MHz) / Channel		
							1717.5	1745	1772.5
							343500	349000	354500
	15	DFS-s OFDM	QPSK	1RB Low	0	20.00		19.64	
				50% RB Low	0	20.00		19.68	
							Frequency (MHz) / Channel		
							1715	1745	1775
							343000	349000	355000
	10	DFS-s OFDM	QPSK	1RB Low	0	20.00		19.54	
				50% RB Low	0	20.00		19.51	
							Frequency (MHz) / Channel		
							1712.5	1745	1745
							342500	349000	355500
	5	DFS-s OFDM	QPSK	1RB Low	0	20.00		19.63	
				50% RB Low	0	20.00		19.71	

B.2.5 5G NR (FR1) Band 66 FDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							1730	1745	1760
							346000	349000	352000
NR66	40	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.50		15.50	
			QPSK	1RB Low	0	16.50		15.48	
				1RB Mid	136	16.50		15.85	
				1RB High	270	16.50		15.37	
				50% RB Low	0	16.50		15.66	
				50% RB Mid	68	16.50		15.80	
				50% RB High	137	16.50		15.45	
				100% RB	0	16.50		15.53	
			16QAM	1RB Low	0	16.50		15.57	
			64QAM	1RB Low	0	16.50		15.59	
			256QAM	1RB Low	0	16.50		15.40	
		CP-OFDM	QPSK	1RB Low	0	16.50	15.44		
							Frequency (MHz) / Channel		
							1725	1745	1765
							345000	349000	353000
	30	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.66	
				50% RB Low	0	16.50		15.72	
							Frequency (MHz) / Channel		
							1720	1745	1770
							344000	349000	354000
	20	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.78	
				50% RB Low	0	16.50		15.68	
							Frequency (MHz) / Channel		
							1717.5	1745	1772.5
							343500	349000	354500
	15	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.87	
				50% RB Low	0	16.50		15.71	
							Frequency (MHz) / Channel		
							1715	1745	1775
							343000	349000	355000
	10	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.71	
				50% RB Low	0	16.50		15.57	
							Frequency (MHz) / Channel		
							1712.5	1745	1745
							342500	349000	355500
	5	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.79	
				50% RB Low	0	16.50		15.79	

B.2.5.1 5G NR (FR1) Band 66 FDD – Tablet Mode – Antenna 8

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 8						
							Frequency (MHz) / Channel						
							1730	1745	1760				
							346000	349000	352000				
NR66	40	DFS-s OFDM	PI/2 BPSK	1RB Low	0	16.50		15.62					
			QPSK	1RB Low	0	16.50		15.59					
				1RB Mid	136	16.50		15.98					
				1RB High	270	16.50		15.44					
				50% RB Low	0	16.50		15.75					
				50% RB Mid	68	16.50		15.97					
				50% RB High	137	16.50		15.60					
				100% RB	0	16.50		15.69					
				16QAM	1RB Low	0		16.50		15.88			
			64QAM	1RB Low	0	16.50		15.86					
			256QAM	1RB Low	0	16.50		16.13					
			CP-OFDM	QPSK	1RB Low	0		16.50		15.75			
										Frequency (MHz) / Channel			
										1725	1745	1765	
							345000	349000	353000				
	30	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.76					
				50% RB Low	0	16.50		15.90					
							Frequency (MHz) / Channel						
							1720	1745	1770				
							344000	349000	354000				
	20	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.85					
				50% RB Low	0	16.50		15.89					
							Frequency (MHz) / Channel						
							1717.5	1745	1772.5				
							343500	349000	354500				
	15	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.95					
				50% RB Low	0	16.50		16.00					
							Frequency (MHz) / Channel						
							1715	1745	1775				
							343000	349000	355000				
	10	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.80					
				50% RB Low	0	16.50		15.79					
							Frequency (MHz) / Channel						
							1712.5	1745	1745				
							342500	349000	355500				
	5	DFS-s OFDM	QPSK	1RB Low	0	16.50		15.89					
				50% RB Low	0	16.50		16.03					

B.2.5.1 5G NR (FR1) Band 71 FDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							673.0	680.5	688.0
							134600	136100	137600
NR71	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	21.50		21.27	
			QPSK	1RB Low	0	21.50		21.24	
				1RB Mid	50	21.50		21.50	
				1RB High	99	21.50		21.36	
				50% RB Low	0	21.50		21.43	
				50% RB Mid	25	21.50		21.50	
				50% RB High	49	21.50		21.50	
				100% RB	0	21.50		21.50	
			16QAM	1RB Low	0	21.50		21.36	
			64QAM	1RB Low	0	21.50		21.30	
		256QAM	1RB Low	0	21.50		21.37		
		CP-OFDM	QPSK	1RB Low	0	21.50		21.28	
							Frequency (MHz) / Channel		
							670.5	680.5	690.5
							134100	136100	138100
	15	DFS-s OFDM	QPSK	1RB Low	0	21.50		21.43	
				50% RB Low	0	21.50		21.50	
							Frequency (MHz) / Channel		
							668.0	680.5	693.0
							133600	136100	138600
	10	DFS-s OFDM	QPSK	1RB Low	0	21.50		21.34	
				50% RB Low	0	21.50		21.28	
							Frequency (MHz) / Channel		
							665.5	680.5	695.5
							133100	136100	139100
	5	DFS-s OFDM	QPSK	1RB Low	0	21.50		21.50	
				50% RB Low	0	21.50		21.46	

B.2.5.2 5G NR (FR1) Band 71 FDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5		
							Frequency (MHz) / Channel		
							673.0	680.5	688.0
							134600	136100	137600
NR71	20	DFS-s OFDM	PI/2 BPSK	1RB Low	0	19.00		18.77	
			QPSK	1RB Low	0	19.00		18.73	
				1RB Mid	50	19.00		18.96	
				1RB High	99	19.00		18.84	
				50% RB Low	0	19.00		18.90	
				50% RB Mid	25	19.00		19.00	
				50% RB High	49	19.00		19.00	
				100% RB	0	19.00		18.99	
			16QAM	1RB Low	0	19.00		18.80	
			64QAM	1RB Low	0	19.00		18.81	
		256QAM	1RB Low	0	19.00		18.87		
		CP-OFDM	QPSK	1RB Low	0	19.00		18.72	
							Frequency (MHz) / Channel		
							670.5	680.5	690.5
							134100	136100	138100
	15	DFS-s OFDM	QPSK	1RB Low	0	19.00		18.97	
				50% RB Low	0	19.00		19.00	
							Frequency (MHz) / Channel		
							668.0	680.5	693.0
							133600	136100	138600
	10	DFS-s OFDM	QPSK	1RB Low	0	19.00		18.80	
				50% RB Low	0	19.00		18.77	
							Frequency (MHz) / Channel		
							665.5	680.5	695.5
							133100	136100	139100
	5	DFS-s OFDM	QPSK	1RB Low	0	19.00		18.99	
				50% RB Low	0	19.00		18.93	

B.2.5.3 5G NR (FR1) Band 77 TDD – Laptop Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5				
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
NR77	100	DFS-s OFDM	PI/2 BPSK	1RB Low	0	18.50			16.62		
			QPSK	1RB Low	0	18.50			16.63		
				1RB Mid	136	18.50			17.22		
				1RB High	270	18.50			16.58		
				50% RB Low	0	18.50			17.36		
				50% RB Mid	68	18.50			17.49		
				50% RB High	137	18.50			17.32		
				100% RB	0	18.50			17.33		
			16QAM	1RB Low	0	18.50			16.87		
			64QAM	1RB Low	0	18.50			16.94		
		256QAM	1RB Low	0	18.50			16.50			
		CP-OFDM	QPSK	1RB Low	0	18.50			16.86		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	90	DFS-s OFDM	QPSK	1RB Low	0	18.50			16.77		
				50% RB Low	0	18.50			17.21		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	80	DFS-s OFDM	QPSK	1RB Low	0	18.50			16.85		
				50% RB Low	0	18.50			17.21		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	60	DFS-s OFDM	QPSK	1RB Low	0	18.50			16.95		
				50% RB Low	0	18.50			17.29		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	50	DFS-s OFDM	QPSK	1RB Low	0	18.50			16.98		
				50% RB Low	0	18.50			17.33		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	40	DFS-s OFDM	QPSK	1RB Low	0	18.50			16.76		
				50% RB Low	0	18.50			17.16		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	20	DFS-s OFDM	QPSK	1RB Low	0	18.50			16.99		
				50% RB Low	0	18.50			17.32		

B.2.5.4 5G NR (FR1) Band 77 TDD – Tablet Mode – Antenna 5

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 5				
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
NR77	100	DFS-s OFDM	PI/2 BPSK	1RB Low	0	15.00			13.27		
			QPSK	1RB Low	0	15.00			13.23		
				1RB Mid	136	15.00			13.83		
				1RB High	270	15.00			13.32		
				50% RB Low	0	15.00			13.79		
				50% RB Mid	68	15.00			13.99		
				50% RB High	137	15.00			13.85		
				100% RB	0	15.00			13.81		
			16QAM	1RB Low	0	15.00			13.29		
			64QAM	1RB Low	0	15.00			13.41		
		256QAM	1RB Low	0	15.00			13.16			
		CP-OFDM	QPSK	1RB Low	0	15.00			13.28		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	90	DFS-s OFDM	QPSK	1RB Low	0	15.00			13.39		
				50% RB Low	0	15.00			13.87		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	80	DFS-s OFDM	QPSK	1RB Low	0	15.00			13.51		
				50% RB Low	0	15.00			13.99		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	60	DFS-s OFDM	QPSK	1RB Low	0	15.00			13.62		
				50% RB Low	0	15.00			13.90		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	50	DFS-s OFDM	QPSK	1RB Low	0	15.00			13.68		
				50% RB Low	0	15.00			13.91		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	40	DFS-s OFDM	QPSK	1RB Low	0	15.00			13.59		
				50% RB Low	0	15.00			13.90		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	20	DFS-s OFDM	QPSK	1RB Low	0	15.00			13.99		
				50% RB Low	0	15.00			13.16		

B.2.5.5 5G NR (FR1) Band 77 TDD – Tablet Mode – Antenna 8

Band	BW	Modulation	Mode	RB Allocation	RB Offset	Factory upper tolerance (dBm)	Measured Output Power (dBm) Antenna 8				
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
NR77	100	DFS-s OFDM	PI/2 BPSK	1RB Low	0	14.00			12.73		
			QPSK	1RB Low	0	14.00			12.67		
				1RB Mid	136	14.00			13.17		
				1RB High	270	14.00			12.68		
				50% RB Low	0	14.00			13.17		
				50% RB Mid	68	14.00			13.35		
				50% RB High	137	14.00			13.22		
				100% RB	0	14.00			13.13		
			16QAM	1RB Low	0	14.00			12.90		
			64QAM	1RB Low	0	14.00			12.82		
		256QAM	1RB Low	0	14.00			12.71			
		CP-OFDM	QPSK	1RB Low	0	14.00			12.68		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	90	DFS-s OFDM	QPSK	1RB Low	0	14.00			12.83		
				50% RB Low	0	14.00			13.23		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	80	DFS-s OFDM	QPSK	1RB Low	0	14.00			12.94		
				50% RB Low	0	14.00			13.22		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	60	DFS-s OFDM	QPSK	1RB Low	0	14.00			12.99		
				50% RB Low	0	14.00			13.17		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	50	DFS-s OFDM	QPSK	1RB Low	0	14.00			13.09		
				50% RB Low	0	14.00			13.28		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	40	DFS-s OFDM	QPSK	1RB Low	0	14.00			12.85		
				50% RB Low	0	14.00			13.13		
							Frequency (MHz) / Channel				
							3840	3795	3750	3885	3930
							656600	653000	650000	659000	662000
	20	DFS-s OFDM	QPSK	1RB Low	0	14.00			13.16		
				50% RB Low	0	14.00			13.44		

B.2.5.6 5G NR (FR1) Band 78 TDD – Antennas 5 and 8

SAR Measurement for NR Band 78 TDD (Frequency range: 3700 – 3800MHz) is covered by NR Band 77 TDD (Frequency range: 3700 – 3980MHz) due to overlapping frequency range, same maximum tune-up and same bandwidth.

B.2.5.7 5G NR (FR1) UL Carrier Aggregation

For NR ULCA mode, each carrier transmits on separate antennas. Each exposure has been measured separately. For each, the highest standalone SAR conditions are added to derive the Total SAR. Refer to paragraph B.5.5

B.3 Tissue Parameters Measurement

Body TSL SAR System 2

Body TSL	Target TSL		Measured TSL		Deviation %		Date
Freq (MHz)	ϵ' (F/m)	σ (S/m)	ϵ' (F/m)	σ (S/m)	Deviation ϵ'	Deviation σ	
750	55.53	0.96	54.18	0.91	-2.43	-5.21	2022-05-23
	55.53	0.96	54.31	0.93	-2.2	-3.12	2022-06-09
835	55.15	0.99	53.97	0.95	-2.14	-4.04	2022-05-23
	55.15	0.99	57.59	0.93	4.42	-6.06	2022-06-02
1750	53.43	1.49	52.57	1.42	-1.61	-4.7	2022-05-23
	53.43	1.49	56.33	1.4	5.43	-6.04	2022-06-02
1900	53.3	1.52	52.37	1.52	-1.74	0.0	2022-05-23
	53.3	1.52	56.14	1.51	5.33	-0.66	2022-06-02
2300	52.9	1.81	55.63	1.83	5.16	1.1	2022-06-02
2600	52.51	2.16	55.2	2.12	5.12	-1.85	2022-06-02
3700	51.05	3.55	52.17	3.24	2.19	-8.73	2022-06-06

Body TSL SAR System 4

Body TSL	Target TSL		Measured TSL		Deviation %		Date
Freq (MHz)	ϵ' (F/m)	σ (S/m)	ϵ' (F/m)	σ (S/m)	Deviation ϵ'	Deviation σ	
750	55.53	0.96	53.77	0.97	-3.17	1.04	2022-06-10
835	55.15	0.99	53.83	0.98	-2.39	-1.01	2022-05-30
1750	53.43	1.49	55.78	1.50	4.40	0.67	2022-05-23
1750	53.43	1.49	52.99	1.45	-0.82	-2.68	2022-05-30
1900	53.30	1.52	52.82	1.55	-0.90	1.97	2022-05-30
	53.30	1.52	57.11	1.50	7.15	-1.32	2022-06-03
2300	52.90	1.81	52.33	1.85	-1.08	2.21	2022-05-30
2600	52.51	2.16	51.87	2.12	-1.22	-1.85	2022-05-30
2600	52.51	2.16	56.16	2.08	6.95	-3.70	2022-06-03
3700	51.05	3.55	54.37	3.21	6.50	9.57	2022-06-07

See *Annex D* below for more details.

B.4 System Check Measurements

Body Measurements SAR System #2

Frequency (MHz)	Average	Target SAR (W/kg)	Measured SAR (W/kg)	Deviation to target (%)	Limit (%)	Date
750	1g	8.75	8.15	-6.90	±10	2022-05-24
	10g	5.72	5.39	-5.77		
	1g	8.75	8.26	-5.60		2022-06-09
	10g	5.72	5.48	-4.20		
835	1g	9.65	9.40	-2.59		2022-05-25
	10g	6.32	6.20	-1.90		
	1g	9.65	9.64	-0.10		2022-06-02
	10g	6.32	6.36	0.63		
1750	1g	37.10	38.20	2.96		2022-05-25
	10g	19.60	20.00	2.04		
	1g	37.10	36.00	-2.96		2022-06-02
	10g	19.60	19.46	-0.71		
1900	1g	47.90	45.20	-5.64		2022-05-25
	10g	23.20	21.80	-6.03		
	1g	40.30	40.40	0.25		2022-06-02
	10g	21.00	21.40	1.90		
2300	1g	47.90	47.40	-1.04		2022-06-04
	10g	23.20	22.80	-1.72		
2600	1g	54.10	52.60	-2.77		2022-06-02
	10g	24.10	23.80	-1.24		
	1g	54.10	52.40	-3.14		2022-06-04
	10g	24.10	23.80	-1.24		
3700	1g	62.10	59.60	-4.03		2022-06-06
	10g	22.20	22.80	2.70		

Body Measurements SAR System #4

Frequency (MHz)	Average	Target SAR (W/kg)	Measured SAR (W/kg)	Deviation to target (%)	Limit (%)	Date
750	1g	8.75	8.25	-5.37	±10	2022-06-10
	10g	5.72	5.42	-5.24		
835	1g	9.65	10.52	9.24		2022-06-04
	10g	6.32	6.82	8.08		
1750	1g	37.10	35.00	-5.66		2022-05-24
	10g	19.60	18.46	-5.82		
1900	1g	47.90	40.00	-0.74		2022-06-02
	10g	23.20	20.80	-0.95		
	1g	47.90	40.40	8.89		2022-05-31
	10g	23.20	21.20	8.16		
2300	1g	47.90	44.60	-6.89		2022-06-02
	10g	23.20	21.40	-7.76		
2600	1g	54.10	49.20	-9.06		2022-06-03
	10g	24.10	22.00	-8.71		
3700	1g	62.10	62.00	-0.16		2022-06-07
	10g	22.20	23.00	3.60		

See Annex C

B.5 SAR Test Results

B.5.1 WCDMA

B.5.1.1 WCDMA Band II

Band	Antenna / Vendor	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
Band II	Ant 5 / HTK	5	RMC 12.2kbps	9400	1880	Back Face	0.19	0.70	0.73	1
						Laptop	0.60	0.17	0.19	
						Left Edge	0.19	0.28	0.29	
						Top Edge	0.19	0.35	0.37	
	Ant 5 / Inpaq	5	RMC 12.2kbps	9400	1880	Back Face	0.19	0.57	0.59	
						Laptop	0.60	0.12	0.14	
						Left Edge	0.19	0.07	0.07	
						Top Edge	0.19	0.04	0.04	

B.5.1.1 WCDMA Band IV

Band	Antenna / Vendor	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
Band IV	Ant 5 / HTK	5	RMC 12.2kbps	1413	1732.6	Back Face	0.14	0.57	0.58	2
						Laptop	0.01	0.15	0.15	
						Left Edge	0.14	0.17	0.18	
						Top Edge	0.14	0.19	0.19	
	Ant 5 / Inpaq	5	RMC 12.2kbps	1413	1732.6	Back Face	0.14	0.51	0.52	
						Laptop	0.01	0.41	0.41	
						Left Edge	0.14	0.18	0.18	
						Top Edge	0.14	0.03	0.03	

B.5.1.1 WCDMA Band V

Band	Antenna / Vendor	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
Band V	Ant 5 / HTK	5	RMC 12.2kbps	4132	826.4	Back Face	0.18	0.93	0.97	3
				4183	836.6	Back Face	0.34	0.88	0.96	
						Laptop	0.13	0.28	0.29	
						Left Edge	0.34	0.19	0.21	
						Top Edge	0.34	0.19	0.21	
				4233	846.6	Back Face	0.11	0.88	0.90	
	Ant 5 / Inpaq	5	RMC 12.2kbps	4132	826.4	Back Face	0.18	0.75	0.79	
				4183	836.6	Back Face	0.34	0.73	0.79	
						Laptop	0.13	0.12	0.12	
						Left Edge	0.34	0.09	0.10	
						Top Edge	0.34	0.03	0.03	
				4233	846.6	Back Face	0.11	0.73	0.74	

B.5.2 LTE

B.5.2.1 LTE Band 7 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 7	Ant 5 / HTK	20	QPSK	21100	2535	Back Face	1RB Mid	0.79	0.51	0.61	
						Back Face	50RB Mid	0.82	0.40	0.48	
						Laptop	1RB Mid	1.38	0.18	0.25	
						Laptop	50RB Mid	1.39	0.14	0.19	
						Left Edge	1RB Mid	0.79	0.10	0.12	
						Left Edge	50RB Mid	0.82	0.08	0.10	
						Top Edge	1RB Mid	0.79	0.02	0.03	
						Top Edge	50RB Mid	0.82	0.02	0.02	
	Ant 8 / HTK	20	QPSK	21100	2535	Back Face	1RB Mid	1.69	0.03	0.04	
						Back Face	50RB Mid	1.69	0.02	0.03	
						Top Edge	1RB Mid	1.69	0.24	0.35	
						Top Edge	50RB Mid	1.69	0.19	0.28	
	Ant 5 / HTK	20	QPSK	21100	2535	Back Face	1RB Mid	0.79	0.66	0.79	4
						Back Face	50RB Mid	0.82	0.66	0.79	
						Laptop	1RB Mid	1.38	0.05	0.07	
						Laptop	50RB Mid	1.39	0.06	0.08	
						Left Edge	1RB Mid	0.79	0.12	0.15	
						Left Edge	50RB Mid	0.82	0.13	0.15	
						Top Edge	1RB Mid	0.79	0.02	0.02	
						Top Edge	50RB Mid	0.82	0.01	0.01	
	Ant 8 / Inpaq	20	QPSK	21100	2535	Back Face	1RB Mid	1.69	0.00	0.01	
						Back Face	50RB Mid	1.69	0.00	0.01	
						Top Edge	1RB Mid	1.69	0.19	0.28	
						Top Edge	50RB Mid	1.69	0.19	0.28	

UL CA 7C

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

From the above table on standalone testing on LTE Band 7, laptop position on antenna 5 HTK, was chosen as the configurations that give the highest SAR, thus, the same is used for UL CA testing.

Band	Ant.	Modulation / BW	PCC			SCC			Position	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)
			Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation				
LTE 7C	5 / HTK	QPSK / 20MHz	20850	2510	1RB High	21100	2535	1RB Low	Back face	0.07	0.40	0.41

PCC RB allocation settings for UL CA have been adjusted based on the worst-case power

B.5.2.2 LTE Band 12 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 12	Ant 5 / HTK	10	QPSK	23095	707.5	Back Face	1RB Mid	0.84	0.70	0.85	
						Back Face	50RB Mid	0.92	0.54	0.67	
						Back Face	100RB Mid	0.88	0.52	0.64	
						Laptop	1RB Mid	1.29	0.83	1.11	5
						Laptop	50RB Mid	1.33	0.63	0.86	
						Laptop	100RB Mid	1.31	0.64	0.86	
						Left Edge	1RB Mid	0.84	0.30	0.37	
						Left Edge	50RB Mid	0.92	0.34	0.43	
						Top Edge	1RB Mid	0.84	0.11	0.13	
						Top Edge	50RB Mid	0.92	0.08	0.10	
	Ant 5 / Inpaq	10	QPSK	23095	707.5	Back Face	1RB Mid	0.84	0.16	0.19	
						Back Face	50RB Mid	0.92	0.15	0.19	
						Laptop	1RB Mid	1.29	0.21	0.29	
						Laptop	50RB Mid	1.33	0.21	0.28	
						Left Edge	1RB Mid	0.84	0.10	0.12	
						Left Edge	50RB Mid	0.92	0.10	0.12	
						Top Edge	1RB Mid	0.84	0.05	0.07	
						Top Edge	50RB Mid	0.92	0.05	0.07	

B.5.2.3 LTE Band 13 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 13	Ant 5 / HTK	10	QPSK	23230	782	Back Face	1RB Mid	0.70	0.82	0.96	
						Back Face	50RB Mid	0.80	0.64	0.77	
						Back Face	100RB Mid	0.81	0.64	0.77	
						Laptop	1RB Mid	1.17	0.91	1.19	6
						Laptop	50RB Mid	1.19	0.71	0.93	
						Laptop	100RB Mid	1.17	0.71	0.93	
						Left Edge	1RB Mid	0.70	0.45	0.52	
						Left Edge	50RB Mid	0.80	0.35	0.42	
						Top Edge	1RB Mid	0.70	0.11	0.13	
						Top Edge	50RB Mid	0.80	0.09	0.11	
	Ant 5 / Inpaq	10	QPSK	23230	782	Back Face	1RB Mid	0.70	0.19	0.22	
						Back Face	50RB Mid	0.80	0.18	0.22	
						Laptop	1RB Mid	1.17	0.13	0.17	
						Laptop	50RB Mid	1.19	0.13	0.17	
						Left Edge	1RB Mid	0.70	0.09	0.10	
						Left Edge e	50RB Mid	0.80	0.08	0.10	
						Top Edge	1RB Mid	0.70	0.03	0.04	
						Top Edge	50RB Mid	0.80	0.03	0.04	

B.5.2.4 LTE Band 14 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 14	Ant 5 / HTK	10	QPSK	23330	793	Back Face	1RB Mid	0.73	0.84	0.98	7
						Back Face	50RB Mid	0.77	0.65	0.78	
						Back Face	100RB Mid	0.78	0.62	0.74	
						Laptop	1RB Mid	1.23	0.57	0.75	
						Laptop	50RB Mid	1.26	0.44	0.59	
						Laptop	100RB Mid	1.22	0.43	0.57	
						Left Edge	1RB Mid	0.73	0.43	0.51	
						Left Edge	50RB Mid	0.77	0.33	0.40	
						Top Edge	1RB Mid	0.73	0.12	0.14	
						Top Edge	50RB Mid	0.77	0.09	0.11	
	Ant 5 / Inpaq	10	QPSK	23330	793	Back Face	1RB Mid	0.73	0.19	0.23	
						Back Face	50RB Mid	0.77	0.19	0.22	
						Laptop	1RB Mid	1.23	0.13	0.17	
						Laptop	50RB Mid	1.26	0.12	0.16	
						Left Edge e	1RB Mid	0.73	0.09	0.10	
						Left Edge	50RB Mid	0.77	0.08	0.10	
						Top Edge	1RB Mid	0.73	0.03	0.04	
						Top Edge	50RB Mid	0.77	0.03	0.04	

B.5.2.5 LTE Band 25 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 25	Ant 5 / HTK	20	QPSK	26365	1882.5	Back Face	1RB Mid	1.40	0.33	0.46	8
						Back Face	50RB Mid	1.44	0.25	0.35	
						Laptop	1RB Mid	1.39	0.58	0.79	
						Laptop	50RB Mid	1.39	0.46	0.64	
						Left Edge	1RB Mid	1.40	0.15	0.20	
						Left Edge	50RB Mid	1.44	0.12	0.16	
						Top Edge	1RB Mid	1.40	0.09	0.12	
						Top Edge	50RB Mid	1.44	0.07	0.10	
	Ant 8 / HTK	20	QPSK	26365	1882.5	Back Face	1RB Mid	0.75	0.02	0.02	
						Back Face	50RB Mid	0.77	0.02	0.02	
						Top Edge	1RB Mid	0.75	0.33	0.39	
						Top Edge	50RB Mid	0.77	0.26	0.31	
	Ant 5 / Inpaq	20	QPSK	26365	1882.5	Back Face	1RB Mid	1.40	0.39	0.54	
						Back Face	50RB Mid	1.44	0.40	0.55	
						Laptop	1RB Mid	1.39	0.13	0.17	
						Laptop	50RB Mid	1.39	0.13	0.17	
						Left Edge	1RB Mid	1.40	0.05	0.07	
						Left Edge	50RB Mid	1.44	0.05	0.07	
						Top Edge	1RB Mid	1.40	0.27	0.37	
						Top Edge	50RB Mid	1.44	0.03	0.04	
	Ant 8 / Inpaq	20	QPSK	26365	1882.5	Back Face	1RB Mid	0.75	0.00	0.00	
						Back Face	50RB Mid	0.77	0.01	0.01	
						Top Edge	1RB Mid	0.75	0.08	0.10	
						Top Edge	50RB Mid	0.77	0.08	0.10	

B.5.2.6 LTE Band 26 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 26	Ant 5 / HTK	15	QPSK	26775	821.5	Laptop	1RB Mid	1.15	0.84	1.09	9
						Laptop	50RB Mid	1.23	0.64	0.84	
				26865	831.5	Back Face	1RB Mid	0.59	0.69	0.79	
						Back Face	50RB Mid	0.88	0.54	0.66	
						Laptop	1RB Mid	1.29	0.79	1.06	
						Laptop	50RB Mid	1.31	0.61	0.82	
						Laptop	100RB Mid	1.31	0.59	0.80	
						Left Edge	1RB Mid	0.59	0.31	0.35	
						Left Edge	50RB Mid	0.88	0.24	0.30	
						Top Edge	1RB Mid	0.59	0.10	0.11	
						Top Edge	50RB Mid	0.88	0.08	0.10	
				26965	841.5	Laptop	1RB Mid	1.30	0.73	0.99	
						Laptop	50RB Mid	1.26	0.56	0.75	
	Ant 5 / Inpaq	15	QPSK	26865	831.5	Back Face	1RB Mid	0.59	0.29	0.33	
						Back Face	50RB Mid	0.88	0.29	0.35	
						Laptop	1RB Mid	1.29	0.12	0.16	
						Laptop	50RB Mid	1.31	0.12	0.16	
						Left Edge	1RB Mid	0.59	0.12	0.13	
						Left Edge	50RB Mid	0.88	0.09	0.11	
						Top Edge	1RB Mid	0.59	0.02	0.02	
						Top Edge	50RB Mid	0.88	0.03	0.04	

UL CA 5B

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

From the above table on standalone testing on LTE Band26, due to overlapping frequency range with band LTE 5 and, same maximum tune-up with same bandwidth, the laptop position on antenna 5 was chosen as the configurations that give the highest SAR, thus, the same is used for UL CA testing for LTE 5B.

Band	Ant.	Modulation / BW	PCC			SCC			Position	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)
			Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation				
LTE 5B	5 / HTK	QPSK / 20MHz	20850	2510	1RB High	21100	2535	1RB Low	Laptop	0.11	0.46	0.47

PCC RB allocation settings for UL CA have been adjusted based on the worst-case power

B.5.2.7 LTE Band 30 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 30	Ant 5 / HTK	10	QPSK	27710	2310	Back Face	1RB Mid	1.24	0.34	0.45	
						Back Face	50RB Mid	1.32	0.34	0.46	
						Laptop	1RB Mid	1.67	0.17	0.25	
						Laptop	50RB Mid	1.72	0.17	0.25	
						Left Edge	1RB Mid	1.24	0.06	0.08	
						Left Edge	50RB Mid	1.32	0.05	0.06	
						Top Edge	1RB Mid	1.24	0.04	0.05	
						Top Edge	50RB Mid	1.32	0.02	0.03	
	Ant 8 / HTK	10	QPSK	27710	2310	Back Face	1RB Mid	1.52	0.03	0.04	
						Back Face	50RB Mid	1.54	0.02	0.03	
						Top Edge	1RB Mid	1.52	0.07	0.10	
						Top Edge	50RB Mid	1.54	0.04	0.06	
	Ant 5 / Inpaq	10	QPSK	27710	2310	Back Face	1RB Mid	1.24	0.65	0.86	
						Back Face	50RB Mid	1.32	0.65	0.87	10
						Back Face	100RB Mid	1.42	0.27	0.37	
						Laptop	1RB Mid	1.67	0.16	0.23	
						Laptop	50RB Mid	1.72	0.16	0.23	
						Left Edge	1RB Mid	1.24	0.14	0.19	
						Left Edge	50RB Mid	1.32	0.14	0.18	
						Top Edge	1RB Mid	1.24	0.02	0.02	
						Top Edge	50RB Mid	1.32	0.02	0.02	
	Ant 8 / Inpaq	10	QPSK	27710	2310	Back Face	1RB Mid	1.52	0.05	0.06	
						Back Face	50RB Mid	1.54	0.04	0.05	
						Top Edge	1RB Mid	1.52	0.18	0.25	
						Top Edge	50RB Mid	1.54	0.18	0.25	

B.5.2.8 LTE Band 41 TDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 41	Ant 5 / HTK	20	QPSK	40620	2593	Back Face	1RB Mid	0.65	0.39	0.45	
						Back Face	50RB Mid	0.72	0.30	0.35	
						Laptop	1RB Mid	1.09	0.15	0.19	
						Laptop	50RB Mid	1.21	0.14	0.18	
						Left Edge	1RB Mid	0.65	0.48	0.56	11
						Left Edge	50RB Mid	0.72	0.38	0.44	
						Top Edge	1RB Mid	0.65	0.04	0.05	
						Top Edge	50RB Mid	0.72	0.03	0.04	
	Ant 8 / HTK	20	QPSK	40620	2593	Back Face	1RB Mid	0.79	0.01	0.01	
						Back Face	50RB Mid	0.89	0.01	0.01	
						Top Edge	1RB Mid	0.79	0.17	0.20	
						Top Edge	50RB Mid	0.89	0.14	0.17	
	Ant 5 / Inpaq	20	QPSK	40620	2593	Back Face	1RB Mid	0.65	0.19	0.22	
						Back Face	50RB Mid	0.72	0.20	0.23	
						Laptop	1RB Mid	1.09	0.10	0.12	
						Laptop	50RB Mid	1.21	0.10	0.13	
						Left Edge	1RB Mid	0.65	0.03	0.04	
						Left Edge	50RB Mid	0.72	0.03	0.04	
						Top Edge	1RB Mid	0.65	0.02	0.02	
						Top Edge	50RB Mid	0.72	0.04	0.05	
	Ant 8 / Inpaq	20	QPSK	40620	2593	Back Face	1RB Mid	0.79	0.00	0.00	
						Back Face	50RB Mid	0.89	0.02	0.02	
						Top Edge	1RB Mid	0.79	0.12	0.14	
						Top Edge	50RB Mid	0.89	0.12	0.15	

UL CA 41C

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

From the above table on standalone testing on LTE Band41, left edge position on antenna8 was chosen as the configurations that give the highest SAR, thus, the same is used for UL CA testing.

Band	Ant.	Modulation / BW	PCC			SCC			Position	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)
			Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation				
LTE 41C	5 / HTK	QPSK / 20MHz	40521	2583.1	1RB High	40719	2602.9	1RB Low	Left edge	0.12	0.30	0.31

PCC RB allocation settings for UL CA have been adjusted based on the worst-case power

B.5.2.9 LTE Band 48 TDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 48	Ant 8 / HTK	20	QPSK	55340	3560	Top Edge	1RB Mid	0.43	1.01	1.12	12
						Top Edge	50RB Mid	0.52	0.82	0.92	
				55990	3625	Back Face	1RB Mid	0.22	0.02	0.02	
						Back Face	50RB Mid	0.35	0.01	0.01	
						Top Edge	1RB Mid	0.22	0.78	0.82	
						Top Edge	50RB Mid	0.35	0.62	0.67	
						Top Edge	100RB Mid	0.34	0.60	0.65	
						Top Edge	1RB Mid	0.22	0.72	0.76	
						Top Edge	50RB Mid	0.25	0.57	0.60	
	Ant 8 / Inpaq	20	QPSK	55990	3625	Back Face	1RB Mid	0.22	0.01	0.01	
						Back Face	50RB Mid	0.35	0.01	0.01	
						Top Edge	1RB Mid	0.22	0.23	0.24	
						Top Edge	50RB Mid	0.35	0.18	0.19	

UL CA 48C

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

From the above table on standalone testing on LTE Band48, top edge position on antenna8 was chosen as the configurations that give the highest SAR, thus, the same is used for UL CA testing.

Band	Ant.	Modulation / BW	PCC			SCC			Position	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)
			Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation				
LTE 48C	8 / HTK	QPSK / 20MHz	55891	3615.1	1RB High	56089	3634.9	1RB Low	Top edge	0.10	0.49	0.49

PCC RB allocation settings for UL CA have been adjusted based on the worst-case power

B.5.2.10 LTE Band66 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 66	Ant 5 / HTK	20	QPSK	132072	1720	Laptop	1RB Mid	0.73	0.35	0.41	
						Laptop	50RB Mid	0.67	0.46	0.54	
				132322	1745	Back Face	1RB Mid	0.33	0.33	0.36	
						Back Face	50RB Mid	0.21	0.26	0.27	
						Laptop	1RB Mid	0.73	0.74	0.88	
						Laptop	50RB Mid	0.65	0.60	0.69	
						Laptop	100RB Mid	0.65	0.58	0.68	
						Left Edge	1RB Mid	0.33	0.25	0.27	
						Left Edge	50RB Mid	0.21	0.20	0.21	
						Top Edge	1RB Mid	0.33	0.12	0.13	
						Top Edge	50RB Mid	0.21	0.09	0.09	
				132572	1770	Laptop	1RB Mid	0.67	0.90	1.05	13
						Laptop	50RB Mid	0.60	0.71	0.82	
	Ant 8 / HTK	20	QPSK	132322	1745	Back Face	1RB Mid	0.55	0.02	0.02	
						Back Face	50RB Mid	0.45	0.02	0.02	
						Top Edge	1RB Mid	0.55	0.39	0.44	
						Top Edge	50RB Mid	0.45	0.31	0.35	
	Ant 5 / Inpaq	20	QPSK	132072	1720	Back Face	1RB Mid	0.33	0.90	0.97	
						Back Face	50RB Mid	0.31	0.89	0.95	
				132322	1745	Back Face	1RB Mid	0.33	0.86	0.93	
						Back Face	50RB Mid	0.21	0.85	0.89	
						Back Face	100RB Mid	0.29	0.81	0.86	
						Laptop	1RB Mid	0.73	0.40	0.47	
						Laptop	50RB Mid	0.65	0.40	0.46	
						Left Edge	1RB Mid	0.33	0.15	0.16	
						Left Edge	50RB Mid	0.21	0.16	0.16	
						Top Edge	1RB Mid	0.33	0.03	0.03	
						Top Edge	50RB Mid	0.21	0.03	0.03	
				132072	1720	Laptop	1RB Mid	0.29	0.87	0.93	
						Laptop	50RB Mid	0.22	0.88	0.92	
	Ant 8 / Inpaq	20	QPSK	132322	1745	Back Face	1RB Mid	0.55	0.07	0.08	
						Back Face	50RB Mid	0.45	0.08	0.08	
						Top Edge	1RB Mid	0.55	0.00	0.01	
						Top Edge	50RB Mid	0.45	0.01	0.02	

UL CA 66B, 66C

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

From the above table on standalone testing on LTE Band66, laptop on Ant 5 position was chosen as the configurations that give the highest SAR, thus, the same is used for UL CA testing.

Band	Ant	Modulation / BW	PCC			SCC			Position	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)
			Ch	Freq (MHz)	RB Allocation	Ch	Freq (MHz)	RB Allocation				
LTE 66B	5 / HTK	QPSK / 20MHz	132373	1750.1	1RB High	132472	1760	1RB Low	Laptop	0.44	0.66	0.73
LTE 66C		QPSK / 20MHz	132323	2145.1	1RB High	132521	1764.9	1RB Low	Laptop	0.33	0.53	0.57

PCC RB allocation settings for UL CA have been adjusted based on the worst-case power

B.5.2.11 LTE Band 71 FDD

Band	Antenna	BW (MHz)	Mod.	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Plot #
LTE 71	Ant 5 / HTK	20	QPSK	133297	680.5	Back Face	1RB Mid	0.93	0.84	1.04	
						Back Face	50RB Mid	0.98	0.68	0.85	
						Back Face	100RB Mid	1.07	0.73	0.93	
						Laptop	1RB Mid	0.28	1.00	1.06	14
						Laptop	50RB Mid	0.28	1.00	1.06	
						Laptop	100RB Mid	0.24	0.78	0.82	
						Left Edge	1RB Mid	0.23	0.77	0.81	
						Left Edge	50RB Mid	0.93	0.50	0.62	
						Left Edge	100RB Mid	0.98	0.40	0.50	
						Top Edge	1RB Mid	1.07	0.43	0.55	
						Top Edge	50RB Mid	0.93	0.18	0.22	
	Ant 8 / Inpaq	20	QPSK	133297	680.5	Back Face	1RB Mid	0.93	0.70	0.86	
						Back Face	50RB Mid	0.98	0.55	0.69	
						Laptop	1RB Mid	0.28	0.84	0.89	
						Laptop	50RB Mid	0.24	0.66	0.69	
						Laptop	100RB Mid	0.23	0.65	0.68	
						Left Edge	1RB Mid	0.93	0.55	0.68	
						Left Edge	50RB Mid	0.98	0.34	0.43	
						Top Edge	1RB Mid	0.93	0.15	0.19	
						Top Edge	50RB Mid	0.98	0.12	0.15	

B.5.3 5G NR

B.5.3.1 5G NR 2 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #	
NR2	Ant 8 / HTK	QPSK / 20MHz	376000	1880.0	Back Face	1RB Mid	0.60	0.05	0.05		
						50RB Mid	0.67	0.05	0.06		
					Top edge	1RB Mid	0.60	0.86	0.99	15	
						50RB Mid	0.67	0.82	0.96		
						100RB Low	0.78	0.82	0.98		
			372000	1860.0		1RB Mid	0.83	0.81	0.98		
						50RB Mid	0.80	0.82	0.99		
					380000	1900.0	1RB Mid	0.82	0.78	0.95	
							50RB Mid	0.82	0.79	0.95	
	Ant 8 / NPAQ	376000	1880.0	Back Face	1RB Mid	0.60	0.03	0.03			
					50RB Mid	0.67	0.03	0.03			
				Top edge	1RB Mid	0.60	0.24	0.29			
					50RB Mid	0.67	0.25	0.29			

B.5.3.1 5G NR 5 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR5	Ant5 / HTK	QPSK / 20MHz	167300	836.5	Back Face	1RB Mid	1.18	0.76	1.00	
						50RB Mid	1.09	0.79	1.02	16
						100RB Mid	1.06	0.77	0.98	
					Left edge	1RB Mid	1.18	0.50	0.62	
						50RB Mid	1.09	0.47	0.64	
					Top edge	1RB Mid	1.18	0.13	0.17	
						50RB Mid	1.09	0.13	0.17	
					Laptop	1RB Mid	0.46	0.86	0.95	
						50RB Mid	0.46	0.87	0.97	
	100RB Low					0.49	0.86	0.96		
	Ant 5 / NPAQ				Back Face	1RB Mid	1.18	0.55	0.72	
						50RB Mid	1.09	0.56	0.71	
					Left edge	1RB Mid	1.18	0.20	0.26	
						50RB Mid	1.09	0.20	0.26	
					Top edge	1RB Mid	1.18	0.07	0.09	
						50RB Mid	1.09	0.07	0.09	
					Laptop	1RB Mid	0.46	0.52	0.58	
						50RB Mid	0.46	0.51	0.56	

B.5.3.2 5G NR 7 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR7	Ant5 / HTK	QPSK / 20MHz	500000	2510.0	Back Face	1RB Mid	0.85	0.52	0.63	
						50RB Mid	0.80	0.52	0.62	
					Laptop	1RB Mid	0.45	0.93	1.03	
						50RB Mid	0.38	0.97	1.05	
			507000	2535.0	Back Face	1RB Mid	0.89	0.86	1.05	
						50RB Mid	0.80	0.87	1.04	
						100RB Mid	0.80	0.87	1.05	
					Left edge	1RB Mid	0.89	0.10	0.13	
						50RB Mid	0.80	0.10	0.13	
					Top edge	1RB Mid	0.89	0.04	0.05	
						50RB Mid	0.80	0.04	0.05	
					Laptop	1RB Mid	0.55	0.97	1.11	
						50RB Mid	0.39	0.99	1.08	
						100RB Mid	0.43	0.98	1.08	
	514000		2560.0	Back Face	1RB Mid	0.83	0.62	0.74		
					50RB Mid	0.74	0.63	0.75		
				Laptop	1RB Mid	0.34	1.10	1.19		
					50RB Mid	0.27	1.12	1.19	17	
	Ant5 / INPAQ		507000	2535.0	Back Face	1RB Mid	0.89	0.55	0.67	
						50RB Mid	0.80	0.53	0.64	
					Left edge	1RB Mid	0.89	0.20	0.24	
						50RB Mid	0.80	0.20	0.24	
					Top edge	1RB Mid	0.89	0.04	0.05	
						50RB Mid	0.80	0.04	0.05	
					Laptop	1RB Mid	0.55	0.42	0.46	
						50RB Mid	0.39	0.40	0.45	

B.5.3.3 5G NR 25 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR25	Ant5 / HTK	QPSK / 20MHz	370000	1860.0	Laptop	1RB Mid	0.91	0.85	1.04	
						50RB Mid	0.77	0.89	1.06	
			376500	1882.5	Back Face	1RB Mid	0.94	0.44	0.55	
						50RB Mid	0.82	0.45	0.54	
					Left edge	1RB Mid	0.94	0.23	0.28	
						50RB Mid	0.82	0.23	0.27	
					Top edge	1RB Mid	0.94	0.20	0.25	
						50RB Mid	0.82	0.20	0.24	
					Laptop	1RB Mid	0.79	0.92	1.10	
						50RB Mid	0.72	0.92	1.09	
						100RB Mid	0.75	1.01	1.20	18
			383000	1905.0	Laptop	1RB Mid	0.86	0.90	1.09	
						50RB Mid	0.69	0.92	1.08	
	Ant5 / INPAQ		370000	1860.0	Laptop	1RB Mid	0.91	0.84	1.04	
						50RB Mid	0.77	0.84	1.00	
			376500	1882.5	Back Face	1RB Mid	0.94	0.59	0.73	
						50RB Mid	0.82	0.60	0.72	
					Left edge	1RB Mid	0.94	0.40	0.49	
						50RB Mid	0.82	0.40	0.48	
					Top edge	1RB Mid	0.94	0.24	0.30	
						50RB Mid	0.82	0.25	0.30	
					Laptop	1RB Mid	0.79	0.80	0.96	
						50RB Mid	0.72	0.82	0.97	
						100RB Mid	0.75	0.81	0.96	
			383000	1905.0	Laptop	1RB Mid	0.86	0.83	1.01	
						50RB Mid	0.69	0.85	1.00	

B.5.3.4 5G NR 30 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR 30	Ant5 / HTK	QPSK / 10MHz	462000	2310.0	Back Face	1RB Mid	1.06	0.69	0.88	
						50RB Mid	1.16	0.67	0.87	
					Left edge	1RB Mid	1.06	0.10	0.12	
						50RB Mid	1.01	0.08	0.10	
					Top edge	1RB Mid	1.06	0.05	0.06	
						50RB Mid	1.16	0.05	0.06	
					Laptop	1RB Mid	0.91	0.88	1.08	19
						50RB Mid	0.81	0.89	1.07	
						100RB Mid	0.83	0.88	1.07	
	Ant5 / INPAQ	QPSK / 10MHz	462000	2310.0	Back Face	1RB Mid	1.06	0.43	0.55	
						50RB Mid	1.16	0.42	0.55	
					Left edge	1RB Mid	1.06	0.19	0.24	
						50RB Mid	1.01	0.19	0.24	
					Top edge	1RB Mid	1.06	0.07	0.09	
						50RB Mid	1.01	0.07	0.09	
					Laptop	1RB Mid	0.91	0.36	0.41	
						50RB Mid	0.81	0.37	0.45	

B.5.3.5 5G NR 41 TDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #				
NR41	Ant5 / HTK	QPSK / 100MHz	518601	2593	Back Face	1RB Mid	0.47	0.82	0.89					
						50RB Mid	0.31	0.91	0.98					
						100RB Low	0.39	0.86	0.96					
					Left Edge	1RB Mid	0.47	0.12	0.13					
						50RB Mid	0.31	0.12	0.12					
					Top edge	1RB Mid	0.47	0.05	0.05					
						50RB Mid	0.31	0.04	0.05					
					Laptop	1RB Mid	0.24	0.98	1.03					
						50RB Mid	0.51	0.97	1.09	20				
						100RB Low	0.22	0.85	0.90					
					Ant8 / HTK				Back Face	1RB Mid	0.79	0.01	0.01	
										50RB Mid	0.69	0.01	0.01	
	Top edge	1RB Mid	0.79	0.72					0.86					
		50RB Mid	0.69	0.77					0.90					
		100RB Low	0.84	0.49					0.60					
	Ant5 / INPAQ	QPSK / 100MHz	518601	2593	Back Face	1RB Mid	0.47	0.76	0.84					
						50RB Mid	0.31	0.82	0.88					
						100RB Low	0.39	0.85	0.93					
					Left edge	1RB Mid	0.47	0.06	0.07					
						50RB Mid	0.31	0.14	0.15					
					Top edge	1RB Mid	0.47	0.10	0.11					
						50RB Mid	0.31	0.11	0.12					
					Laptop	1RB Mid	0.24	0.53	0.56					
						50RB Mid	0.51	0.57	0.64					
					Ant8 / INPAQ				Back Face	1RB Mid	0.79	0.02	0.02	
										50RB Mid	0.69	0.02	0.03	
									Top edge	1RB Mid	0.79	0.83	0.99	
50RB Mid										0.69	0.88	1.04		

B.5.3.6 5G NR 66 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR 66	Ant 5 / HTK	QPSK / 40MHz	349000	1745.0	Back Face	1RB Mid	0.65	0.27	0.31	
						50RB Mid	0.70	0.27	0.31	
					Left edge	1RB Mid	0.65	0.30	0.34	
						50RB Mid	0.53	0.30	0.34	
					Top edge	1RB Mid	0.65	0.11	0.13	
						50RB Mid	0.70	0.11	0.13	
	Ant 8 / HTK	QPSK / 40MHz	349000	1745.0	Laptop	1RB Mid	0.20	0.90	0.94	
						50RB Mid	0.19	0.92	0.96	
						100RB Mid	0.45	0.88	0.97	
					Back Face	1RB Mid	0.52	0.02	0.02	
						50RB Mid	0.53	0.02	0.03	
					Top Edge	1RB Mid	0.52	0.59	0.67	
						50RB Mid	0.53	0.60	0.67	
	Ant 5 / NPAQ	QPSK / 40MHz	349000	1745.0	Back Face	1RB Mid	0.65	0.68	0.79	
						50RB Mid	0.70	0.68	0.80	
					Left edge	1RB Mid	0.65	0.61	0.70	
						50RB Mid	0.70	0.61	0.71	
					Top edge	1RB Mid	0.65	0.18	0.21	
						50RB Mid	0.70	0.18	0.21	
	Ant 8 / NPAQ	QPSK / 40MHz	349000	1745.0	Laptop	1RB Mid	0.20	1.06	1.11	
						50RB Mid	0.19	1.07	1.12	21
						100RB Mid	0.45	1.00	1.11	
					Back Face	1RB Mid	0.52	0.02	0.02	
						50RB Mid	0.53	0.02	0.02	
					Top Edge	1RB Mid	0.52	0.45	0.50	
						50RB Mid	0.53	0.45	0.51	

B.5.3.7 5G NR 71 FDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR71	Ant 5 / HTK	QPSK / 20MHz	136100	680.5	Back Face	1RB Mid	0.04	0.94	0.95	22
						50RB Mid	0.00	0.98	0.98	
						100RB Low	0.01	0.92	0.92	
					Left edge	1RB Mid	0.04	0.76	0.77	
						50RB Mid	0.00	0.75	0.75	
					Top edge	1RB Mid	0.04	0.18	0.18	
						50RB Mid	0.00	0.13	0.13	
					Laptop	1RB Mid	0.00	0.88	0.88	
						50RB Mid	0.00	0.83	0.83	
						100RB Low	0.00	0.81	0.81	
	Ant 5 / INPAQ	QPSK / 20MHz	136100	680.5	Back Face	1RB Mid	0.04	0.28	0.28	
						50RB Mid	0.00	0.26	0.26	
					Left edge	1RB Mid	0.04	0.19	0.19	
						50RB Mid	0.00	0.18	0.18	
					Top edge	1RB Mid	0.04	0.14	0.14	
						50RB Mid	0.00	0.14	0.14	
					Laptop	1RB Mid	0.00	0.77	0.77	
						50RB Mid	0.00	0.79	0.80	
						100RB Low	0.00	0.82	0.82	

B.5.3.1 5G NR 77 TDD

Band	Antenna	Mod. / BW	Channel Number	Freq (MHz)	Position	% RB Allocation	Scaling Factor (dB)	Measured SAR 1g (W/Kg)	Reported SAR 1g (W/Kg)	Plot #
NR77	Ant 5 / HTK	QPSK / 100MHz	650000	3750.0	Back Face	1RB Mid	1.17	0.39	0.50	
						50RB Mid	1.01	0.39	0.49	
					Left edge	1RB Mid	1.17	0.01	0.02	
						50RB Mid	1.01	0.01	0.02	
					Top edge	1RB Mid	1.17	0.01	0.01	
						50RB Mid	1.01	0.01	0.01	
	Ant 8 / HTK	QPSK / 100MHz	650000	3750.0	Laptop	1RB Mid	1.28	0.33	0.45	
						50RB Mid	1.01	0.35	0.44	
					Back Face	1RB Mid	0.83	0.01	0.01	
						50RB Mid	0.65	0.01	0.01	
					Top edge	1RB Mid	0.83	0.44	0.54	
						50RB Mid	0.65	0.47	0.55	
	Ant 5 / NPAQ	QPSK / 100MHz	650000	3750.0	Back Face	1RB Mid	1.17	0.99	1.30	
						50RB Mid	1.01	1.03	1.30	22
						100RB Low	1.19	0.98	1.29	
					Left edge	1RB Mid	1.17	0.03	0.04	
						50RB Mid	1.01	0.04	0.05	
					Top edge	1RB Mid	1.17	0.03	0.03	
						50RB Mid	1.01	0.03	0.03	
					Laptop	1RB Mid	1.28	0.09	0.12	
						50RB Mid	1.01	0.09	0.11	
	Ant 8 / NPAQ	QPSK / 100MHz	650000	3750.0	Back Face	1RB Mid	0.83	0.01	0.01	
						50RB Mid	0.65	0.01	0.01	
					Top edge	1RB Mid	0.83	0.13	0.16	
						50RB Mid	0.65	0.26	0.31	

B.5.4 ENDC

For EN-DC mode, the 4G and 5G carriers transmit on separate antennas. Each exposure has been measured separately. For both LTE and 5G-NR, the highest standalone SAR conditions are added to derive the Total SAR. Refer to paragraph B.5.5

B.5.5 SAR Measurement Variability

According to FCC OET KDB 865664, SAR Measurement variability is assessed when the maximum initial measured SAR is ≥ 0.8 W/kg for a certain band/mode. If the measured SAR value of the initial repeated measurement is < 1.45 W/kg with $< 20\%$ variation, only one repeated measurement is required to confirm that the results are not expected to have substantial variations.

A second repeated measurement is required only if the measured results for the initial repeated measurement are within 10% of the SAR limit or vary by more than 20%.

A third repeated measurement is required only if the original, first or second repeated measurement ≥ 1.5 W/Kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is > 1.2 .

Band / Mode	Position	Ch #	Freq. (MHz)	Measured SAR 1g (W/kg)	1 st Repeated SAR 1g (W/kg)	2 nd Repeated SAR 1g (W/kg)	Highest Ratio
LTE FDD 71 / QPSK – 20MHz	Laptop	136100	680.5	1.00	1.00		1.00
WCDMA V /QPSK – 5MHz	Back face	4132	826.4	0.93	0.93		1.00
LTE FDD 66 / QPSK – 20MHz	Laptop	132572	1770	0.90	0.88		1.02
LTE TDD 48 / QPSK – 20MHz	Top edge	55340	3560	1.01	1.01		1.00
NR 77 / QPSK – 100MHz	Back Face	656000	3750	1.03	1.02		1.01