

LTE Power

Note: The Conducted output power refers to FCC ID: QIPPLS63-W, report No.: 200722016RFM-2, which is issued by Shenzhen UnionTrust Quality and Technology Co., Ltd.

Test Result

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 2	1.4 MHz	QPSK	1	0	22.6	22.76	22.74
			1	2	23.05	23.56	22.67
			1	5	22.64	23.01	22.83
			3	0	23.08	23.15	23.12
			3	1	22.94	23.03	22.93
			3	3	23.02	23.3	23.09
			6	0	21.77	22.17	21.88
			Max. EIRP (dBm):		24.66		
		16QAM	1	0	22.9	22.26	23.17
			1	2	23.53	23.27	23.58
			1	5	22.48	22.1	22.99
			3	0	22.69	22.99	22.67
			3	1	22.71	22.98	22.68
			3	3	22.65	22.97	22.87
			6	0	21.59	21.85	21.91
			Max. EIRP (dBm):		24.68		
EIRP Limit (dBm):					33.01		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 2	3 MHz	QPSK	1	0	22.58	22.74	22.81
			1	7	23.13	23.49	22.59
			1	14	22.67	22.9	22.9
			8	0	22.07	22.15	22.08
			8	3	21.99	22.06	21.94
			8	7	22.01	22.3	22.18
			15	0	21.84	22.25	21.89
			Max. EIRP (dBm):		24.59		
		16QAM	1	0	22.95	22.26	23.29
			1	7	23.42	23.17	23.49
			1	14	22.34	22.27	22.98
			8	0	21.56	21.84	21.78
			8	3	21.74	21.91	21.82
			8	7	21.74	21.97	21.85
			15	0	21.52	21.9	21.85
			Max. EIRP (dBm):		24.59		
EIRP Limit (dBm):					33.01		
LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 2	5 MHz	QPSK	1	0	22.64	22.77	22.83
			1	12	22.98	23.55	22.6
			1	24	22.74	22.98	22.95
			12	0	22.02	22.24	22.04
			12	6	21.86	22.04	22.08
			12	13	22.13	22.32	22.17
			25	0	21.85	22.2	22.02
			Max. EIRP (dBm):		24.65		
		16QAM	1	0	23.04	22.19	23.12
			1	12	23.58	23.34	23.51
			1	24	22.38	22.21	22.9
			12	0	21.57	21.96	21.74
			12	6	21.61	22.06	21.84
			12	13	21.61	22.05	21.98
			25	0	21.5	22.02	21.94
			Max. EIRP (dBm):		24.68		
EIRP Limit (dBm):					33.01		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 2	10 MHz	QPSK	1	0	22.7	22.65	22.81
			1	24	23.09	23.66	22.68
			1	49	22.66	23.02	22.9
			25	0	22.06	22.25	22.2
			25	12	21.99	22.03	22
			25	25	21.99	22.16	22.04
			50	0	21.84	22.18	22.01
			Max. EIRP (dBm):		24.76		
		16QAM	1	0	23.05	22.23	23.29
			1	24	23.49	23.15	23.46
			1	49	22.48	22.21	22.88
			25	0	21.57	21.83	21.77
			25	12	21.6	21.9	21.79
			25	25	21.66	21.99	21.82
			50	0	21.56	21.88	21.82
			Max. EIRP (dBm):		24.59		
EIRP Limit (dBm):					33.01		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 4	1.4 MHz	QPSK	1	0	22.54	22.68	22.85
			1	2	22.58	22.73	22.48
			1	5	22.39	22.52	22.6
			3	0	22.71	22.67	23.16
			3	1	23.07	22.54	22.61
			3	3	22.9	22.34	22.8
			6	0	21.37	21.71	21.75
			Max. EIRP (dBm):		23.56		
		16QAM	1	0	21.9	22.27	21.86
			1	2	22.03	22.33	21.76
			1	5	21.5	21.35	21.93
			3	0	20.99	21.36	21.26
			3	1	21.22	21.24	21.05
			3	3	21.28	21.34	21.24
			6	0	20.2	20.56	20.6
			Max. EIRP (dBm):		22.73		
EIRP Limit (dBm):					30		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 4	3 MHz	QPSK	1	0	22.5	22.77	22.98
			1	7	22.7	22.67	22.49
			1	14	22.38	22.43	22.49
			8	0	21.79	21.69	22.1
			8	3	22	21.56	21.75
			8	7	21.8	21.36	21.75
			15	0	21.46	21.65	21.73
			Max. EIRP (dBm):		23.38		
		16QAM	1	0	21.97	22.36	21.88
			1	7	22.15	22.2	21.83
			1	14	21.46	21.36	21.92
			8	0	19.93	20.36	20.26
			8	3	20.23	20.21	20.16
			8	7	20.26	20.33	20.35
			15	0	20.36	20.59	20.63
			Max. EIRP (dBm):		22.76		
EIRP Limit (dBm):					30		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 4	5 MHz	QPSK	1	0	22.54	22.65	22.9
			1	12	22.68	22.67	22.46
			1	24	22.43	22.59	22.59
			12	0	21.9	21.64	22.09
			12	6	21.95	21.5	21.72
			12	13	21.81	21.52	21.71
			25	0	21.42	21.65	21.8
			Max. EIRP (dBm):		23.3		
		16QAM	1	0	22.01	22.36	21.85
			1	12	21.99	22.38	21.77
			1	24	21.53	21.38	21.93
			12	0	19.95	20.43	20.41
			12	6	20.12	20.27	20.08
			12	13	20.26	20.38	20.38
			25	0	20.36	20.53	20.66
			Max. EIRP (dBm):		22.78		
EIRP Limit (dBm):					30		
LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 4	10 MHz	QPSK	1	0	22.54	22.65	22.87
			1	24	22.59	22.71	22.48
			1	49	22.43	22.42	22.51
			25	0	21.77	21.66	22.23
			25	12	21.95	21.45	21.73
			25	25	21.91	21.38	21.69
			50	0	21.37	21.57	21.76
			Max. EIRP (dBm):		23.27		
		16QAM	1	0	21.99	22.31	21.92
			1	24	22.02	22.23	21.89
			1	49	21.4	21.28	21.87
			25	0	19.99	20.41	20.4
			25	12	20.07	20.23	20.16
			25	25	20.26	20.38	20.33
			50	0	20.33	20.55	20.63
			Max. EIRP (dBm):		22.71		
EIRP Limit (dBm):					30		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 5	1.4 MHz	QPSK	1	0	22.97	23.35	23.4
			1	2	23.28	23.39	23.27
			1	5	23.2	23.21	23.36
			3	0	23.31	23.25	23.12
			3	1	23.28	23.22	22.98
			3	3	23.09	23.13	23.08
			6	0	22.14	22.02	22.11
			Max. ERP (dBm):		9.75		
		16QAM	1	0	21.9	22.27	21.86
			1	2	22.03	22.33	21.76
			1	5	21.5	21.35	21.93
			3	0	20.99	21.36	21.26
			3	1	21.22	21.24	21.05
			3	3	21.28	21.34	21.24
			6	0	20.2	20.56	20.6
			Max. ERP (dBm):		8.68		
ERP Limit (dBm):					38.45		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 5	3 MHz	QPSK	1	0	22.98	23.38	23.45
			1	7	23.27	23.53	23.32
			1	14	23.37	23.3	23.22
			8	0	22.33	22.41	22.11
			8	3	22.22	22.23	22.01
			8	7	22.16	22.17	22.16
			15	0	22.18	22.09	22.11
			Max. ERP (dBm):		9.88		
		16QAM	1	0	21.97	22.31	22.53
			1	7	22.9	22.41	21.99
			1	14	21.92	22.47	21.82
			8	0	21.23	21.04	20.95
			8	3	21.36	21.06	21.04
			8	7	21.18	21.16	21.21
			15	0	20.93	21.03	21.2
			Max. ERP (dBm):		9.25		
ERP Limit (dBm):					38.45		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 5	5 MHz	QPSK	1	0	23.04	23.34	23.48
			1	12	23.26	23.57	23.4
			1	24	23.19	23.34	23.31
			12	0	22.21	22.3	22.11
			12	6	22.18	22.17	21.96
			12	13	22.15	22.13	22.12
			25	0	22.25	22.13	22.07
			Max. ERP (dBm):		9.92		
		16QAM	1	0	21.97	22.45	22.48
			1	12	22.72	22.35	22.06
			1	24	22.02	22.46	21.78
			12	0	21.22	21.05	20.89
			12	6	21.27	20.99	20.96
			12	13	21.18	21.18	21.23
			25	0	20.89	21.09	21.08
			Max. ERP (dBm):		9.07		
ERP Limit (dBm):					38.45		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 5	10 MHz	QPSK	1	0	23.08	23.48	23.56
			1	24	23.45	23.58	23.43
			1	49	23.39	23.36	23.38
			25	0	22.35	22.41	22.12
			25	12	22.31	22.37	22.13
			25	25	22.26	22.22	22.16
			50	0	22.28	22.21	22.17
			Max. ERP (dBm):		9.93		
		16QAM	1	0	22.09	22.48	22.66
			1	24	22.9	22.5	22.11
			1	49	22.08	22.52	21.85
			25	0	21.3	21.12	21.04
			25	12	21.4	21.13	21.09
			25	25	21.2	21.24	21.31
			50	0	21.04	21.16	21.23
			Max. ERP (dBm):		9.25		
ERP Limit (dBm):					38.45		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 7	5 MHz	QPSK	1	0	22.79	22.49	22.84
			1	12	22.76	22.74	22.75
			1	24	22.54	22.8	22.65
			12	0	21.9	21.58	21.42
			12	6	21.93	21.48	21.7
			12	13	21.83	21.7	21.64
			25	0	21.82	21.65	21.83
			Max. EIRP (dBm):		22.34		
		16QAM	1	0	22	21.96	21.92
			1	12	22.39	23.15	22.46
			1	24	21.93	22	22.2
			12	0	21.54	21.21	21.17
			12	6	21.55	21.28	21.49
			12	13	21.42	21.43	21.59
			25	0	21.41	21.34	21.52
			Max. EIRP (dBm):		22.65		
EIRP Limit (dBm):					33.01		
LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 7	10 MHz	QPSK	1	0	22.78	22.36	22.9
			1	24	22.8	22.74	22.85
			1	49	22.63	22.77	22.64
			25	0	21.89	21.73	21.38
			25	12	21.89	21.36	21.67
			25	25	21.72	21.65	21.66
			50	0	21.76	21.81	21.92
			Max. EIRP (dBm):		22.4		
		16QAM	1	0	21.96	21.94	21.95
			1	24	22.41	23.11	22.51
			1	49	21.93	21.93	22.25
			25	0	21.54	21.27	21.16
			25	12	21.54	21.13	21.54
			25	25	21.45	21.4	21.49
			50	0	21.32	21.47	21.41
			Max. EIRP (dBm):		22.61		
EIRP Limit (dBm):					33.01		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 12	1.4 MHz	QPSK	1	0	23.59	23.42	22.95
			1	2	23.77	23.54	23.41
			1	5	23.53	23.01	23.52
			3	0	23.58	23.32	23.48
			3	1	23.88	23.37	23.48
			3	3	23.93	23.32	23.52
			6	0	23.1	22.34	22.39
			Max. ERP (dBm):		8.18		
		16QAM	1	0	23.11	23.12	23.28
			1	2	23.45	23.22	23.09
			1	5	23.47	22.86	23.13
			3	0	23.09	23.38	23.58
			3	1	23.17	23.21	23.29
			3	3	23.07	23.24	23.39
			6	0	22.27	22.21	22.36
			Max. ERP (dBm):		7.83		
ERP Limit (dBm):					34.77		
LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 12	3 MHz	QPSK	1	0	23.57	23.36	22.84
			1	7	23.68	23.58	23.3
			1	14	23.56	23.07	23.62
			8	0	22.59	22.42	22.65
			8	3	22.84	22.38	22.62
			8	7	22.83	22.22	22.5
			15	0	23.15	22.39	22.42
			Max. ERP (dBm):		7.93		
		16QAM	1	0	23.14	23.16	23.28
			1	7	23.48	23.31	23.11
			1	14	23.39	22.97	23.31
			8	0	22.15	22.29	22.48
			8	3	22.24	22.21	22.3
			8	7	22.09	22.16	22.46
			15	0	22.28	22.2	22.22
			Max. ERP (dBm):		7.73		
ERP Limit (dBm):					34.77		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 12	5 MHz	QPSK	1	0	23.57	23.36	23
			1	12	23.71	23.59	23.39
			1	24	23.44	22.96	23.64
			12	0	22.69	22.38	22.5
			12	6	22.79	22.31	22.46
			12	13	22.77	22.37	22.38
			25	0	23.23	22.42	22.29
			Max. ERP (dBm):		7.96		
		16QAM	1	0	23.21	23.07	23.28
			1	12	23.48	23.23	23.11
			1	24	23.33	22.84	23.16
			12	0	22.14	22.36	22.46
			12	6	22.21	22.28	22.37
			12	13	22.08	22.06	22.43
			25	0	22.18	22.18	22.29
			Max. ERP (dBm):		7.73		
ERP Limit (dBm):					34.77		
LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 12	10 MHz	QPSK	1	0	23.63	23.52	23.04
			1	24	23.83	23.64	23.47
			1	49	23.61	23.16	23.67
			25	0	22.71	22.44	22.66
			25	12	22.93	22.42	22.64
			25	25	22.97	22.41	22.52
			50	0	23.24	22.46	22.42
			Max. ERP (dBm):		8.08		
		16QAM	1	0	23.28	23.19	23.37
			1	24	23.54	23.33	23.15
			1	49	23.47	23	23.32
			25	0	22.29	22.44	22.6
			25	12	22.3	22.35	22.38
			25	25	22.25	22.26	22.46
			50	0	22.3	22.36	22.38
			Max. ERP (dBm):		7.79		
ERP Limit (dBm):					34.77		

Note: EIRP (dBm) = Burst Average power (dBm) + Antenna Gain (dBi).

ERP (dBm) = EIRP (dBm) - 2.15 (dB).

Spot Check Test Result

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 2	10 MHz	QPSK	1	0	22.61	22.27	22.92
			1	24	23.28	23.22	23.68
			1	49	22.85	22.6	22.77
			25	0	22.45	22.73	22.37
			25	12	21.84	22.32	22.24
			25	25	22.33	22.41	21.81
			50	0	21.88	22.38	22.37
			Max. EIRP (dBm):		24.78		
		16QAM	1	0	22.21	22.58	22.25
			1	24	22.82	23.08	23.33
			1	49	21.8	21.89	22.03
			25	0	22.28	21.54	21.94
			25	12	22.3	21.54	22.36
			25	25	21.75	21.62	21.71
			50	0	21.81	22.36	22.01
			Max. EIRP (dBm):		24.43		
EIRP Limit (dBm):					33.01		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 4	1.4 MHz	QPSK	1	0	22.69	23	22.69
			1	2	22.44	22.35	22.24
			1	5	22.2	22.77	22.97
			3	0	22.37	22.32	22.38
			3	1	23.02	22.67	23.03
			3	3	22.24	22.44	22.21
			6	0	22.15	22.03	21.4
			Max. EIRP (dBm):		23.43		
		16QAM	1	0	22.04	22.31	22.09
			1	2	22.09	22.03	22.07
			1	5	21.8	21.84	21.78
			3	0	21.45	21.79	21.2
			3	1	20.95	21.02	20.75
			3	3	21.18	21.51	21.49
			6	0	20.68	20.54	20.11
			Max. EIRP (dBm):		22.71		
EIRP Limit (dBm):					30		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 5	10 MHz	QPSK	1	0	23.09	23.14	23.12
			1	24	23.21	23.11	23.19
			1	49	22.87	23.19	23.01
			25	0	23.04	23.09	22.78
			25	12	22.96	22.95	23.22
			25	25	22.64	22.9	22.9
			50	0	21.8	21.97	21.93
			Max. ERP (dBm):		9.57		
		16QAM	1	0	22.01	22.31	22.02
			1	24	22.3	22.03	22.44
			1	49	22.42	22.18	22.02
			25	0	20.78	21.01	21.09
			25	12	20.73	20.73	21.13
			25	25	21.24	21.24	20.88
			50	0	20.77	20.84	20.94
			Max. ERP (dBm):		8.79		
ERP Limit (dBm):					38.45		
	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 7	5 MHz	QPSK	1	0	22.41	22.21	22.13
			1	12	22.36	22.41	22.31
			1	24	22.59	22.66	22.66
			12	0	21.22	21.3	21.08
			12	6	21.26	21.47	20.98
			12	13	21.67	21.54	21.57
			25	0	21.43	21.56	21.47
			Max. EIRP (dBm):		22.16		
		16QAM	1	0	21.96	21.54	21.71
			1	12	23.05	22.95	22.84
			1	24	21.64	21.9	21.56
			12	0	20.93	20.92	21.19
			12	6	20.87	21.09	21.07
			12	13	20.99	21.14	21.24
			25	0	21.08	21.17	21.28
			Max. EIRP (dBm):		22.55		
EIRP Limit (dBm):					33.01		

LTE BAND	BW	Modulation	RB		Conducted Power(dBm)		
					Test Channel		
			size	offset	Low	Mid	High
BAND 12	1.4 MHz	QPSK	1	0	23.37	23.25	23.35
			1	2	23.05	23.5	23.42
			1	5	22.71	22.75	22.97
			3	0	22.91	22.93	23.11
			3	1	23.23	23.18	23.1
			3	3	22.9	23.29	23.32
			6	0	22	21.95	21.84
			Max. ERP (dBm):		7.75		
		16QAM	1	0	22.91	22.79	23.11
			1	2	23.19	23.14	23.16
			1	5	22.62	22.43	22.65
			3	0	23.3	22.9	22.9
			3	1	22.85	23.17	22.8
			3	3	22.87	23.22	22.76
			6	0	21.82	22.05	22
			Max. ERP (dBm):		7.55		
ERP Limit (dBm):					34.77		

Note: EIRP (dBm) = Burst Average power (dBm) + Antenna Gain (dBi).

ERP (dBm) = EIRP (dBm) - 2.15 (dBi).