

Report No.: SEWM2209000178RG01

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Appendix B.9

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.57	21.05	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.6	21.08	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.57	21.05	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.6	20.08	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.61	21.09	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.64	21.12	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.56	21.04	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.55	20.03	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.6	21.08	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.61	21.09	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.64	21.12	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.6	20.08	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.64	20.12	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.74	20.22	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.65	20.13	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.56	19.04	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.69	20.17	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.72	20.2	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.68	20.16	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.53	19.01	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.7	20.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.78	20.26	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.66	20.14	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.58	19.06	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.69	19.17	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#12	20.83	19.31	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.78	19.26	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	19.65	18.13	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.77	19.25	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.79	19.27	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.71	19.19	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.67	18.15	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	20.68	19.16	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	20.75	19.23	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.66	19.14	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.72	18.2	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.56	17.04	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.57	17.05	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.74	17.22	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	17.74	16.22	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.63	17.11	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.54	17.02	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.52	17	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	17.52	16	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.63	17.11	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.54	17.02	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.52	17	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	17.63	16.11	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.54	21.02	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.59	21.07	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.5	20.98	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.5	19.98	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.54	21.02	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.59	21.07	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.54	21.02	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.56	20.04	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.6	21.08	34.77	PASS



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Band17	10MHz	QPSK	23800	1RB#49	22.6	21.08	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.59	20.07	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.7	20.18	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.77	20.25	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.66	20.14	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.5	18.98	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.03	20.51	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.71	20.19	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.64	20.12	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.52	19	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.78	20.26	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.79	20.27	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.68	20.16	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.57	19.05	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.73	19.21	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	20.76	19.24	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.69	19.17	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	19.61	18.09	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.67	19.15	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	20.81	19.29	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	20.66	19.14	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	19.65	18.13	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.75	19.23	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	20.69	19.17	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.69	19.17	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	19.7	18.18	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.55	17.03	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.63	17.11	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.41	16.89	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	17.65	16.13	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.25	16.73	34.77	PASS



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Band17	10MHz	256QAM	23790	1RB#49	18.63	17.11	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	17.52	16	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.54	17.02	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.33	16.81	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.41	16.89	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	17.63	16.11	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1429	90.69	-48.03	25.61	-26.99	-13.00	13.99	245	282	Horizontal
2	2113.7143	82.35	-47.71	27.04	-33.58	-13.00	20.58	126	256	Horizontal
3	2818.2857	66.89	-46.86	28.56	-46.67	-13.00	33.67	125	29	Horizontal
4	3522.8571	66.73	-46.49	29.54	-45.48	-13.00	32.48	195	122	Horizontal
5	4227.5400	61.26	-45.91	31.16	-48.75	-13.00	35.75	148	189	Horizontal
6	4932	57.81	-45.65	32.69	-50.41	-13.00	37.41	133	55	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1429	85.97	-48.03	25.61	-31.71	-13.00	18.71	245	360	Vertical
2	2113.7700	81.17	-47.71	27.04	-34.76	-13.00	21.76	132	132	Vertical
3	2818.2857	69.79	-46.86	28.56	-43.77	-13.00	30.77	126	145	Vertical
4	3522.9500	60.84	-46.49	29.54	-51.37	-13.00	38.37	259	171	Vertical
5	4227.4286	63.25	-45.91	31.16	-46.76	-13.00	33.76	145	65	Vertical
6	4932.1300	54.73	-45.65	32.69	-53.49	-13.00	40.49	199	25	Vertical



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Test Band = LTE Band17_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	87.31	-48.04	25.60	-30.38	-13.00	17.38	245	97	Horizontal
2	2116.7700	80.83	-47.70	27.05	-35.08	-13.00	22.08	195	18	Horizontal
3	2822.3600	68.77	-46.84	28.58	-44.75	-13.00	31.75	145	0	Horizontal
4	3527.9500	68.86	-46.48	29.55	-43.34	-13.00	30.34	128	110	Horizontal
5	4233.5400	64.22	-45.90	31.17	-45.77	-13.00	32.77	199	110	Horizontal
6	4939.1300	56.30	-45.67	32.71	-51.92	-13.00	38.92	156	58	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	86.35	-48.04	25.60	-31.34	-13.00	18.34	289	304	Vertical
2	2116.5714	84.23	-47.71	27.05	-31.69	-13.00	18.69	146	171	Vertical
3	2822.3600	66.39	-46.84	28.58	-47.13	-13.00	34.13	258	279	Vertical
4	3527.9500	61.45	-46.48	29.55	-50.75	-13.00	37.75	149	106	Vertical
5	4233.5400	62.10	-45.90	31.17	-47.89	-13.00	34.89	176	40	Vertical
6	4939.1300	55.45	-45.67	32.71	-52.77	-13.00	39.77	153	26	Vertical



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Member of the SGS Group (SGS SA)

Test Band = LTE Band17_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1429	89.92	-48.04	25.60	-27.78	-13.00	14.78	241	242	Horizontal
2	2119.7700	80.83	-47.70	27.06	-35.07	-13.00	22.07	126	5	Horizontal
3	2826.3600	66.39	-46.83	28.60	-47.10	-13.00	34.10	256	268	Horizontal
4	3532.9500	68.09	-46.47	29.55	-44.09	-13.00	31.09	239	135	Horizontal
5	4239.5400	60.06	-45.89	31.18	-49.91	-13.00	36.91	291	109	Horizontal
6	4946.1300	55.40	-45.69	32.73	-52.82	-13.00	39.82	145	83	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1429	87.26	-48.04	25.60	-30.44	-13.00	17.44	214	316	Vertical
2	2119.7700	82.05	-47.70	27.06	-33.85	-13.00	20.85	156	130	Vertical
3	2826.2857	69.06	-46.83	28.59	-44.43	-13.00	31.43	132	157	Vertical
4	3532.5714	63.43	-46.47	29.55	-48.76	-13.00	35.76	125	78	Vertical
5	4239.4286	61.34	-45.89	31.18	-48.63	-13.00	35.63	199	66	Vertical
6	4946.1300	54.91	-45.69	32.73	-53.31	-13.00	40.31	159	38	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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