

Report No.: SEWM2211000245RG01

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Appendix B.5

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	22.85	18.7	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.22	19.07	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.1	18.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.86	17.71	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.66	18.51	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.81	18.66	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.54	18.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.79	17.64	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.74	18.59	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.98	18.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.8	18.65	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.78	17.63	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.74	17.59	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.77	17.62	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.88	17.73	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.74	16.59	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.75	17.6	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.7	17.55	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.8	17.65	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.69	16.54	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.83	17.68	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.46	17.31	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.58	17.43	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.77	16.62	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.9	18.75	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.02	18.87	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.87	18.72	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	21.93	17.78	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.71	18.56	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.66	18.51	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.76	18.61	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.74	17.59	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.98	18.83	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.66	18.51	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.93	18.78	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.86	17.71	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.81	17.66	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.62	17.47	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.59	17.44	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.05	16.9	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.58	17.43	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.45	17.3	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.48	17.33	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.74	16.59	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.27	18.12	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.36	17.21	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.67	17.52	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.72	16.57	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.81	18.66	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.89	18.74	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.63	18.48	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.95	17.8	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.83	18.68	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.7	18.55	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.74	18.59	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.76	17.61	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.58	18.43	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.95	18.8	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.73	18.58	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	21.88	17.73	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.73	17.58	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.54	17.39	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.47	17.32	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.98	16.83	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.55	17.4	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.54	17.39	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.47	17.32	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.91	16.76	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.59	17.44	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.7	17.55	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.43	17.28	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.92	16.77	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.88	18.73	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.79	18.64	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.73	18.58	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.79	17.64	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.75	18.6	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.69	18.54	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.84	18.69	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.78	17.63	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.75	18.6	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.11	18.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.85	18.7	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.87	17.72	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.85	17.7	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.68	17.53	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.62	17.47	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.82	16.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.53	17.38	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.69	17.54	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.52	17.37	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	21.02	16.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.9	17.75	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.35	18.2	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.14	17.99	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.9	16.75	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	50.79	-48.73	25.40	-67.80	-13.00	54.80	201	274	Horizontal
2	2098.77	45.40	-47.88	27.10	-70.64	-13.00	57.64	174	136	Horizontal
3	2798.36	47.67	-46.69	28.92	-65.36	-13.00	52.36	144	304	Horizontal
4	3497.95	45.73	-46.05	29.40	-66.18	-13.00	53.18	263	304	Horizontal
5	4197.54	40.74	-45.12	30.92	-68.72	-13.00	55.72	255	335	Horizontal
6	4897.13	41.77	-45.14	32.35	-66.27	-13.00	53.27	287	212	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	1399.1111	51.51	-48.73	25.40	-67.08	-13.00	54.08	266	345	Vertical
2	2098.77	46.21	-47.88	27.10	-69.83	-13.00	56.83	295	4	Vertical
3	2798.36	46.76	-46.69	28.92	-66.27	-13.00	53.27	284	0	Vertical
4	3497.95	46.00	-46.05	29.40	-65.91	-13.00	52.91	142	357	Vertical
5	4197.54	42.41	-45.12	30.92	-67.05	-13.00	54.05	200	144	Vertical
6	4897.13	42.54	-45.14	32.35	-65.50	-13.00	52.50	145	10	Vertical



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Test Band = LTE Band 12_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	53.00	-48.72	25.41	-65.57	-13.00	52.57	263	291	Horizontal
2	2109.27	46.01	-47.87	27.12	-70.00	-13.00	57.00	285	291	Horizontal
3	2812.36	51.02	-46.69	28.96	-61.97	-13.00	48.97	241	13	Horizontal
4	3515.45	47.76	-46.03	29.44	-64.10	-13.00	51.10	142	291	Horizontal
5	4218.54	41.72	-45.11	30.95	-67.70	-13.00	54.70	201	307	Horizontal
6	4921.63	42.20	-45.12	32.41	-65.77	-13.00	52.77	145	199	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	1406.18	48.56	-48.72	25.41	-70.01	-13.00	57.01	296	1	Vertical
2	2109.27	45.11	-47.87	27.12	-70.90	-13.00	57.90	233	179	Vertical
3	2812.36	49.02	-46.69	28.96	-63.97	-13.00	50.97	254	315	Vertical
4	3515.45	47.31	-46.03	29.44	-64.55	-13.00	51.55	142	255	Vertical
5	4218.54	43.31	-45.11	30.95	-66.11	-13.00	53.11	286	270	Vertical
6	4921.63	41.21	-45.12	32.41	-66.76	-13.00	53.76	268	27	Vertical



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Test Band = LTE Band 12_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	50.72	-48.70	25.41	-67.82	-13.00	54.82	263	290	Horizontal
2	2119.77	46.83	-47.85	27.14	-69.14	-13.00	56.14	296	304	Horizontal
3	2826.36	49.11	-46.71	29.01	-63.85	-13.00	50.85	265	359	Horizontal
4	3532.95	43.99	-46.01	29.48	-67.80	-13.00	54.80	285	290	Horizontal
5	4239.54	41.88	-45.11	30.98	-67.51	-13.00	54.51	241	347	Horizontal
6	4946.13	41.15	-45.09	32.47	-66.72	-13.00	53.72	122	335	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	1413.18	49.00	-48.70	25.41	-69.54	-13.00	56.54	201	21	Vertical
2	2119.77	45.94	-47.85	27.14	-70.03	-13.00	57.03	174	175	Vertical
3	2826.36	46.49	-46.71	29.01	-66.47	-13.00	53.47	146	345	Vertical
4	3532.95	45.57	-46.01	29.48	-66.22	-13.00	53.22	286	237	Vertical
5	4239.54	43.00	-45.11	30.98	-66.39	-13.00	53.39	233	268	Vertical
6	4946.13	41.09	-45.09	32.47	-66.78	-13.00	53.78	247	268	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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