

Appendix B

E-UTRA Band 12



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.57	23.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.88	23.73	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.87	23.72	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.75	23.60	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.00	23.85	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.82	23.67	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.96	22.81	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.78	23.63	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.77	23.62	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.07	23.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.88	23.73	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.96	23.81	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.02	23.87	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.98	22.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.81	23.66	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.00	23.85	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.84	23.69	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.97	23.82	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.85	23.70	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.92	23.77	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.93	22.78	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.80	22.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.50	22.35	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.69	22.54	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.84	22.69	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.90	22.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.74	22.59	34.77	PASS

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Band12	1.4MHz	16QAM	23017	6RB#0	21.96	21.81	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.10	22.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.04	22.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.93	22.78	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	23.06	22.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.98	22.83	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.18	23.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.09	21.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.79	22.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.97	22.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.72	22.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.10	22.95	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.91	22.76	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.97	22.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.87	21.72	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.60	23.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.80	23.65	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.84	23.69	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.85	22.70	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.05	22.90	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.89	22.74	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.89	22.74	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.84	23.69	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.79	23.64	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.01	23.86	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.91	22.76	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.00	22.85	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.03	22.88	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.98	22.83	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.81	23.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.94	23.79	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.84	23.69	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.98	22.83	34.77	PASS

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Band12	3MHz	QPSK	23165	8RB#0	22.91	22.76	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.98	22.83	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.96	22.81	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.75	22.60	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.46	22.31	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.68	22.53	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.85	21.70	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.93	21.78	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.76	21.61	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.95	21.80	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.12	22.97	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.09	22.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.92	22.77	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.09	21.94	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.05	21.90	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.25	22.10	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.02	21.87	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.80	22.65	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.96	22.81	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.69	22.54	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.15	22.00	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.00	21.85	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.06	21.91	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.92	21.77	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.56	23.41	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.78	23.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.82	23.67	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.81	22.66	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.97	22.82	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.86	22.71	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.88	22.73	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.74	23.59	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.72	23.57	34.77	PASS

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Band12	5MHz	QPSK	23095	1RB#24	23.98	23.83	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.89	22.74	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.90	22.75	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.95	22.80	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.91	22.76	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.81	23.66	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.91	23.76	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.77	23.62	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.96	22.81	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.89	22.74	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.91	22.76	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.90	22.75	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.75	22.60	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.44	22.29	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.61	22.46	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.75	21.60	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.91	21.76	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.69	21.54	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.90	21.75	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.03	22.88	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.04	22.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.86	22.71	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.01	21.86	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.03	21.88	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.17	22.02	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.99	21.84	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.71	22.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.88	22.73	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.62	22.47	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.12	21.97	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.97	21.82	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.05	21.90	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.87	21.72	34.77	PASS

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Band12	10MHz	QPSK	23060	1RB#0	23.58	23.43	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.67	23.52	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.83	23.68	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.91	22.76	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.88	22.73	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.93	22.78	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.82	22.67	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.54	23.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.90	23.75	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.67	23.52	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.85	22.70	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.92	22.77	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.96	22.81	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.88	22.73	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.56	23.41	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.16	24.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.88	23.73	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.04	22.89	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.05	22.90	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.96	22.81	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.05	22.90	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.73	22.58	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.41	23.26	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.45	23.30	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.99	21.84	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.98	21.83	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.04	21.89	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.82	21.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.96	22.81	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.13	22.98	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.03	22.88	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.97	21.82	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.87	21.72	34.77	PASS

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Band12	10MHz	16QAM	23095	25RB#25	21.97	21.82	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.97	21.82	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.17	23.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.18	23.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.70	22.55	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.06	21.91	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.21	22.06	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.03	21.88	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.04	21.89	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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2. Field Strength of Spurious Radiation

2.1. Test Mode =LTE/TM1 10MHz

2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
65.000000	-75.15	-13.00	62.15	155	282	Vertical
138.173333	-74.58	-13.00	61.58	152	29	Vertical
264.406667	-60.51	-13.00	47.51	134	198	Vertical
1399.000000	-54.50	-13.00	41.50	155	247	Vertical
2798.500000	-55.78	-13.00	42.78	204	227	Vertical
4197.300000	-61.70	-13.00	48.70	147	63	Vertical
62.386667	-74.96	-13.00	61.96	232	316	Horizontal
197.300000	-59.69	-13.00	46.69	270	21	Horizontal
345.980000	-64.60	-13.00	51.60	227	335	Horizontal
1399.000000	-54.65	-13.00	41.65	215	240	Horizontal
2798.500000	-55.95	-13.00	42.95	212	0	Horizontal
4197.787500	-65.05	-13.00	52.05	242	31	Horizontal

2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
73.960000	-72.77	-13.00	59.77	152	278	Vertical
137.286667	-73.80	-13.00	60.80	161	29	Vertical
264.966667	-60.06	-13.00	47.06	147	194	Vertical
1406.000000	-54.99	-13.00	41.99	143	247	Vertical
2812.500000	-54.29	-13.00	41.29	188	217	Vertical
4218.262500	-61.58	-13.00	48.58	156	60	Vertical
62.340000	-75.18	-13.00	62.18	220	352	Horizontal
196.786667	-58.87	-13.00	45.87	270	20	Horizontal
347.753333	-64.32	-13.00	51.32	231	324	Horizontal
1406.000000	-54.99	-13.00	41.99	212	246	Horizontal
2812.500000	-54.78	-13.00	41.78	206	0	Horizontal
4218.262500	-63.86	-13.00	50.86	247	271	Horizontal

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2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
61.126667	-68.58	-13.00	55.58	140	281	Vertical
266.693333	-60.35	-13.00	47.35	166	196	Vertical
563.895833	-71.40	-13.00	58.40	130	46	Vertical
1413.000000	-53.34	-13.00	40.34	158	246	Vertical
2120.000000	-59.55	-13.00	46.55	206	288	Vertical
4239.225000	-62.91	-13.00	49.91	159	62	Vertical
62.760000	-75.15	-13.00	62.15	230	0	Horizontal
197.160000	-60.31	-13.00	47.31	281	2	Horizontal
354.660000	-64.86	-13.00	51.86	242	323	Horizontal
1413.000000	-54.18	-13.00	41.18	221	247	Horizontal
2120.000000	-59.58	-13.00	46.58	215	186	Horizontal
4239.225000	-64.50	-13.00	51.50	248	19	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

The End

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