



Report No.: SEWM2304000133RG01

Rev.: 01

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# Appendix B.1

## WCDMA Band II&IV&V



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Wireless Laboratories

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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BandII	9262	23.01	23.26	33.00	PASS
BandII	9400	22.85	23.10	33.00	PASS
BandII	9538	23.14	23.39	33.00	PASS
BandIV	1312	23.20	24.67	30.00	PASS
BandIV	1413	23.33	24.80	30.00	PASS
BandIV	1513	23.33	24.80	30.00	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BandV	4132	23.38	23.91	38.50	PASS
BandV	4182	23.66	24.19	38.50	PASS
BandV	4233	23.49	24.02	38.50	PASS



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## Field Strength of Spurious Radiation

Test Band = WCDMA\_II\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3929.2965	52.11	-49.07	30.78	-61.44	-13.00	48.44	253	256	Horizontal
2	5799.14	50.88	-45.51	34.10	-55.79	-13.00	42.79	397	59	Horizontal
3	7140.957	49.30	-44.03	37.06	-52.93	-13.00	39.93	227	128	Horizontal
4	8992.7996	48.30	-41.71	38.76	-49.91	-13.00	36.91	125	78	Horizontal
5	11929.9465	47.17	-38.18	39.47	-46.80	-13.00	33.80	265	358	Horizontal
6	17941.4971	48.09	-42.98	42.45	-47.70	-13.00	34.70	153	38	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	4375.5688	51.63	-48.60	32.05	-60.18	-13.00	47.18	385	104	Vertical
2	5803.6402	50.26	-45.52	34.10	-56.42	-13.00	43.42	207	55	Vertical
3	7494.9747	49.19	-43.21	36.61	-52.67	-13.00	39.67	328	222	Vertical
4	8971.7986	49.08	-41.89	38.63	-49.44	-13.00	36.44	387	5	Vertical
5	11909.6955	46.92	-37.86	39.49	-46.71	-13.00	33.71	214	94	Vertical
6	17906.2453	48.54	-42.98	42.24	-47.46	-13.00	34.46	265	15	Vertical



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Test Band = WCDMA\_II\_TM1  
 Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3630.7815	52.73	-49.33	30.32	-61.54	-13.00	48.54	325	186	Horizontal
2	4398.8199	51.68	-48.47	32.19	-59.86	-13.00	46.86	167	177	Horizontal
3	5809.6405	50.85	-45.57	34.10	-55.88	-13.00	42.88	338	98	Horizontal
4	9008.5504	48.13	-41.69	38.78	-50.04	-13.00	37.04	271	68	Horizontal
5	11903.6952	47.22	-37.77	39.50	-46.31	-13.00	33.31	285	29	Horizontal
6	17989.4995	49.09	-43.94	42.74	-47.37	-13.00	34.37	265	334	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1327.0409	23.81	-0.66	25.76	-46.35	-13.00	33.35	214	315	Vertical
2	3645.0323	52.24	-49.19	30.38	-61.83	-13.00	48.83	181	295	Vertical
3	5781.1391	50.90	-45.67	34.02	-56.01	-13.00	43.01	138	247	Vertical
4	9115.8058	49.01	-42.36	38.76	-49.85	-13.00	36.85	320	349	Vertical
5	11935.9468	47.62	-38.27	39.46	-46.45	-13.00	33.45	340	10	Vertical
6	17985.7493	49.26	-43.85	42.71	-47.14	-13.00	34.14	131	89	Vertical



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Test Band = WCDMA\_II\_TM1  
 Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1338.7923	23.93	-0.75	25.83	-46.25	-13.00	33.25	144	8	Horizontal
2	3636.0318	52.53	-49.28	30.34	-61.67	-13.00	48.67	253	197	Horizontal
3	5970.1485	50.87	-45.99	34.44	-55.94	-13.00	42.94	176	358	Horizontal
4	9057.3029	48.50	-41.95	38.70	-50.01	-13.00	37.01	252	340	Horizontal
5	11913.4457	47.11	-37.92	39.49	-46.58	-13.00	33.58	321	226	Horizontal
6	17997.7499	49.03	-44.14	42.79	-47.58	-13.00	34.58	254	50	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1345.2932	23.48	-0.60	25.87	-46.51	-13.00	33.51	160	352	Vertical
2	3945.0473	52.16	-49.09	30.87	-61.32	-13.00	48.32	347	126	Vertical
3	7477.7239	49.68	-43.33	36.64	-52.27	-13.00	39.27	168	73	Vertical
4	8978.5489	48.72	-41.83	38.67	-49.70	-13.00	36.70	285	340	Vertical
5	11938.1969	48.03	-38.31	39.46	-46.08	-13.00	33.08	261	161	Vertical
6	17996.2498	48.83	-44.10	42.78	-47.75	-13.00	34.75	264	78	Vertical



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Test Band = WCDMA\_IV\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1365.2957	22.95	-0.47	25.87	-46.91	-13.00	33.91	232	276	Horizontal
2	3641.2821	51.98	-49.23	30.37	-62.14	-13.00	49.14	274	2	Horizontal
3	5812.6406	49.80	-45.59	34.10	-56.95	-13.00	43.95	216	158	Horizontal
4	9033.3017	47.31	-41.80	38.73	-51.02	-13.00	38.02	223	262	Horizontal
5	11786.6893	45.92	-38.73	39.85	-48.22	-13.00	35.22	226	134	Horizontal
6	17918.996	47.34	-42.98	42.31	-48.59	-13.00	35.59	226	346	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1368.046	23.21	-0.45	25.86	-46.64	-13.00	33.64	180	233	Vertical
2	3778.5389	52.30	-49.47	30.50	-61.93	-13.00	48.93	304	183	Vertical
3	5706.8853	49.45	-44.89	33.56	-57.14	-13.00	44.14	295	94	Vertical
4	7977.2489	48.18	-43.45	37.45	-53.08	-13.00	40.08	268	154	Vertical
5	11799.44	45.88	-38.75	39.90	-48.23	-13.00	35.23	266	30	Vertical
6	15806.1403	44.58	-39.83	39.34	-51.17	-13.00	38.17	178	80	Vertical



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Test Band = WCDMA\_IV\_TM1  
 Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1368.7961	23.18	-0.44	25.86	-46.66	-13.00	33.66	233	103	Horizontal
2	4269.0635	51.20	-48.61	31.99	-60.68	-13.00	47.68	229	138	Horizontal
3	5562.1281	50.32	-45.50	33.25	-57.19	-13.00	44.19	247	40	Horizontal
4	7494.9747	48.64	-43.21	36.61	-53.22	-13.00	40.22	337	355	Horizontal
5	11230.1615	46.63	-39.39	39.67	-48.35	-13.00	35.35	285	232	Horizontal
6	17992.4996	47.13	-44.01	42.75	-49.39	-13.00	36.39	125	80	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1381.2977	23.04	-0.44	25.84	-46.82	-13.00	33.82	310	326	Vertical
2	3627.7814	52.22	-49.36	30.31	-62.09	-13.00	49.09	354	11	Vertical
3	5982.1491	49.62	-45.85	34.46	-57.03	-13.00	44.03	227	105	Vertical
4	9024.3012	47.32	-41.76	38.75	-50.95	-13.00	37.95	199	35	Vertical
5	13364.0182	45.37	-39.29	40.30	-48.88	-13.00	35.88	258	359	Vertical
6	17917.4959	46.66	-42.98	42.30	-49.28	-13.00	36.28	222	243	Vertical



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Test Band = WCDMA\_IV\_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1381.7977	22.94	-0.45	25.84	-46.93	-13.00	33.93	196	338	Horizontal
2	3504.0252	52.47	-49.09	29.82	-62.06	-13.00	49.06	351	79	Horizontal
3	5537.3769	49.93	-45.46	33.17	-57.62	-13.00	44.62	373	142	Horizontal
4	7377.9689	48.64	-44.05	36.84	-53.83	-13.00	40.83	343	89	Horizontal
5	11215.9108	46.98	-39.34	39.68	-47.94	-13.00	34.94	321	236	Horizontal
6	17987.2494	47.33	-43.88	42.72	-49.09	-13.00	36.09	265	44	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1379.5474	23.17	-0.43	25.84	-46.68	-13.00	33.68	321	305	Vertical
2	4379.319	51.30	-48.58	32.08	-60.46	-13.00	47.46	365	349	Vertical
3	6778.6889	49.20	-44.57	36.26	-54.37	-13.00	41.37	104	6	Vertical
4	9011.5506	47.39	-41.70	38.78	-50.79	-13.00	37.79	265	285	Vertical
5	11813.6907	46.33	-38.74	39.85	-47.82	-13.00	34.82	166	216	Vertical
6	17915.9958	46.73	-42.98	42.30	-49.21	-13.00	36.21	216	113	Vertical



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Test Band = WCDMA\_V\_TM1  
 Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1651.5814	63.94	-52.86	25.90	-58.28	-13.00	45.28	192	73	Horizontal
2	2532.9416	52.96	-51.00	28.20	-65.10	-13.00	52.10	241	355	Horizontal
3	3312.5656	52.85	-50.22	30.45	-62.18	-13.00	49.18	185	336	Horizontal
4	4403.9202	51.69	-48.44	32.18	-59.83	-13.00	46.83	112	168	Horizontal
5	7460.623	49.33	-43.46	36.68	-52.71	-13.00	39.71	322	341	Horizontal
6	9016.1008	47.99	-41.72	38.77	-50.22	-13.00	37.22	123	321	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1651.3314	59.96	-52.86	25.90	-62.26	-13.00	49.26	165	84	Vertical
2	2472.9341	53.33	-51.24	27.95	-65.22	-13.00	52.22	221	142	Vertical
3	3631.4316	52.57	-49.33	30.33	-61.69	-13.00	48.69	148	54	Vertical
4	5588.0294	50.63	-45.59	33.35	-56.87	-13.00	43.87	115	190	Vertical
5	7498.0749	49.16	-43.18	36.60	-52.68	-13.00	39.68	325	305	Vertical
6	8997.8999	47.68	-41.67	38.79	-50.46	-13.00	37.46	219	169	Vertical



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Test Band = WCDMA\_V\_TM1  
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1671.3339	61.38	-52.78	25.86	-60.80	-13.00	47.80	195	186	Horizontal
2	2461.4327	52.82	-51.26	27.92	-65.78	-13.00	52.78	146	52	Horizontal
3	4190.7595	51.55	-48.52	31.43	-60.80	-13.00	47.80	332	168	Horizontal
4	5731.1866	50.95	-45.49	33.75	-56.05	-13.00	43.05	225	320	Horizontal
5	7476.0238	49.53	-43.35	36.65	-52.43	-13.00	39.43	149	360	Horizontal
6	9043.4022	48.94	-41.84	38.71	-49.45	-13.00	36.45	335	119	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1168.271	53.83	-53.41	25.79	-69.05	-13.00	56.05	163	63	Vertical
2	1670.8339	58.01	-52.78	25.86	-64.17	-13.00	51.17	221	258	Vertical
3	3158.5579	52.51	-49.94	30.32	-62.37	-13.00	49.37	148	134	Vertical
4	5430.1715	50.91	-45.70	33.28	-56.77	-13.00	43.77	214	183	Vertical
5	7470.7735	50.39	-43.39	36.66	-51.60	-13.00	38.60	163	306	Vertical
6	9033.9517	48.53	-41.80	38.73	-49.80	-13.00	36.80	325	80	Vertical



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Test Band = WCDMA\_V\_TM1  
 Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1367.5459	53.67	-53.71	25.86	-69.44	-13.00	56.44	321	309	Horizontal
2	1691.3364	62.28	-52.69	25.82	-59.85	-13.00	46.85	203	214	Horizontal
3	3126.3563	53.02	-50.17	30.21	-62.20	-13.00	49.20	223	221	Horizontal
4	4763.0382	51.39	-47.51	32.25	-59.13	-13.00	46.13	221	142	Horizontal
5	7395.1698	49.67	-44.12	36.81	-52.90	-13.00	39.90	103	108	Horizontal
6	9021.7011	48.37	-41.75	38.76	-49.88	-13.00	36.88	163	172	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1690.8364	57.76	-52.69	25.82	-64.37	-13.00	51.37	163	255	Vertical
2	2299.9125	52.94	-51.76	27.60	-66.48	-13.00	53.48	224	265	Vertical
3	3617.0809	52.06	-49.47	30.27	-62.40	-13.00	49.40	146	242	Vertical
4	5230.3115	50.99	-46.45	32.97	-57.75	-13.00	44.75	332	89	Vertical
5	7885.5443	49.50	-43.47	37.31	-51.92	-13.00	38.92	220	158	Vertical
6	9585.2293	47.69	-41.25	39.17	-49.65	-13.00	36.65	178	84	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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