



Report No.: SEWM2210000221RG02

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Appendix B.28

NR Band n13



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP	LIMIT	Verdict
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.01	20.79	34.77	pass
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	22.89	20.67	34.77	pass
N13	15	5	DFT-PI2BPSK	L	Outer_Full	22.97	20.75	34.77	pass
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	22.82	20.6	34.77	pass
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	22.86	20.64	34.77	pass
N13	15	5	DFT-QPSK	L	Outer_Full	22.99	20.77	34.77	pass
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	22.96	20.74	34.77	pass
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	22.75	20.53	34.77	pass
N13	15	5	DFT-16QAM	L	Outer_Full	21.98	19.76	34.77	pass
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	21.54	19.32	34.77	pass
N13	15	5	DFT-64QAM	L	Inner_1RB_Right	21.57	19.35	34.77	pass
N13	15	5	DFT-64QAM	L	Outer_Full	21.46	19.24	34.77	pass
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	19.33	17.11	34.77	pass
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.51	17.29	34.77	pass
N13	15	5	DFT-256QAM	L	Outer_Full	19.4	17.18	34.77	pass
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	22.97	20.75	34.77	pass
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	22.95	20.73	34.77	pass
N13	15	5	DFT-PI2BPSK	M	Outer_Full	22.84	20.62	34.77	pass
N13	15	5	DFT-QPSK	M	Inner_1RB_Left	22.85	20.63	34.77	pass
N13	15	5	DFT-QPSK	M	Inner_1RB_Right	22.86	20.64	34.77	pass
N13	15	5	DFT-QPSK	M	Outer_Full	22.88	20.66	34.77	pass
N13	15	5	DFT-16QAM	M	Inner_1RB_Left	23.03	20.81	34.77	pass
N13	15	5	DFT-16QAM	M	Inner_1RB_Right	23.01	20.79	34.77	pass
N13	15	5	DFT-16QAM	M	Outer_Full	21.9	19.68	34.77	pass
N13	15	5	DFT-64QAM	M	Inner_1RB_Left	21.32	19.1	34.77	pass
N13	15	5	DFT-64QAM	M	Inner_1RB_Right	21.46	19.24	34.77	pass
N13	15	5	DFT-64QAM	M	Outer_Full	21.33	19.11	34.77	pass
N13	15	5	DFT-256QAM	M	Inner_1RB_Left	19.33	17.11	34.77	pass

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N13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.27	17.05	34.77	pass
N13	15	5	DFT-256QAM	M	Outer_Full	19.31	17.09	34.77	pass
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	22.88	20.66	34.77	pass
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	22.76	20.54	34.77	pass
N13	15	5	DFT-PI2BPSK	H	Outer_Full	22.9	20.68	34.77	pass
N13	15	5	DFT-QPSK	H	Inner_1RB_Left	22.79	20.57	34.77	pass
N13	15	5	DFT-QPSK	H	Inner_1RB_Right	22.72	20.5	34.77	pass
N13	15	5	DFT-QPSK	H	Outer_Full	22.83	20.61	34.77	pass
N13	15	5	DFT-16QAM	H	Inner_1RB_Left	22.7	20.48	34.77	pass
N13	15	5	DFT-16QAM	H	Inner_1RB_Right	22.76	20.54	34.77	pass
N13	15	5	DFT-16QAM	H	Outer_Full	21.96	19.74	34.77	pass
N13	15	5	DFT-64QAM	H	Inner_1RB_Left	21.38	19.16	34.77	pass
N13	15	5	DFT-64QAM	H	Inner_1RB_Right	21.35	19.13	34.77	pass
N13	15	5	DFT-64QAM	H	Outer_Full	21.33	19.11	34.77	pass
N13	15	5	DFT-256QAM	H	Inner_1RB_Left	19.25	17.03	34.77	pass
N13	15	5	DFT-256QAM	H	Inner_1RB_Right	19.33	17.11	34.77	pass
N13	15	5	DFT-256QAM	H	Outer_Full	19.35	17.13	34.77	pass
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	22.97	20.75	34.77	pass
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.79	20.57	34.77	pass
N13	15	10	DFT-PI2BPSK	M	Outer_Full	22.87	20.65	34.77	pass
N13	15	10	DFT-QPSK	M	Inner_1RB_Left	22.86	20.64	34.77	pass
N13	15	10	DFT-QPSK	M	Inner_1RB_Right	22.77	20.55	34.77	pass
N13	15	10	DFT-QPSK	M	Outer_Full	22.9	20.68	34.77	pass
N13	15	10	DFT-16QAM	M	Inner_1RB_Left	22.93	20.71	34.77	pass
N13	15	10	DFT-16QAM	M	Inner_1RB_Right	22.82	20.6	34.77	pass
N13	15	10	DFT-16QAM	M	Outer_Full	21.88	19.66	34.77	pass
N13	15	10	DFT-64QAM	M	Inner_1RB_Left	21.35	19.13	34.77	pass
N13	15	10	DFT-64QAM	M	Inner_1RB_Right	21.35	19.13	34.77	pass
N13	15	10	DFT-64QAM	M	Outer_Full	21.39	19.17	34.77	pass
N13	15	10	DFT-256QAM	M	Inner_1RB_Left	19.34	17.12	34.77	pass
N13	15	10	DFT-256QAM	M	Inner_1RB_Right	19.33	17.11	34.77	pass
N13	15	10	DFT-256QAM	M	Outer_Full	19.39	17.17	34.77	pass

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Field Strength of Spurious Radiation

Test Band = 5G NR SA n13_10M_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1567.4286	60.36	-48.29	25.39	-57.80	-40.00	17.80	254	286	Horizontal
2	2000	47.30	-47.90	26.64	-69.22	-13.00	56.22	126	150	Horizontal
3	2375.4286	51.83	-47.46	27.43	-63.46	-13.00	50.46	236	359	Horizontal
4	3332	44.39	-46.64	29.52	-67.99	-13.00	54.99	256	187	Horizontal
5	3960	45.57	-46.21	30.71	-65.20	-13.00	52.20	291	259	Horizontal
6	4904	51.30	-45.59	32.61	-56.94	-13.00	43.94	188	245	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1568.5714	61.03	-48.29	25.39	-57.13	-40.00	17.13	248	319	Vertical
2	2346.2857	61.98	-47.48	27.41	-53.34	-13.00	40.34	175	279	Vertical
3	2878.8571	43.93	-46.64	28.82	-69.15	-13.00	56.15	145	175	Vertical
4	3256	44.00	-46.51	29.61	-68.16	-13.00	55.16	165	360	Vertical
5	3913.7143	44.44	-46.23	30.60	-66.45	-13.00	53.45	129	189	Vertical
6	4992	46.29	-45.79	32.86	-61.90	-13.00	48.90	188	279	Vertical

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Test Band = 5G NR SA n13_5M_TM1

Test Channel = Low

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1554.8571	67.09	-48.30	25.41	-51.06	-13.00	38.06	258	202	Horizontal	
2	1718.8571	49.62	-48.12	25.40	-68.36	-13.00	55.36	147	147	Horizontal	
3	2031.4286	47.19	-47.84	26.75	-69.16	-13.00	56.16	169	147	Horizontal	
4	2332	64.30	-47.48	27.41	-51.04	-13.00	38.04	152	202	Horizontal	
5	3886.8571	53.06	-46.22	30.53	-57.89	-13.00	44.89	123	293	Horizontal	
6	4904	51.24	-45.59	32.61	-57.00	-13.00	44.00	261	240	Horizontal	

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1554.8571	67.51	-48.30	25.41	-50.64	-13.00	37.64	215	357	Vertical	
2	1718.8571	51.01	-48.12	25.40	-66.97	-13.00	53.97	136	238	Vertical	
3	2332	72.51	-47.48	27.41	-42.83	-13.00	29.83	256	342	Vertical	
4	3886.2857	52.61	-46.22	30.53	-58.34	-13.00	45.34	145	268	Vertical	
5	4992	46.41	-45.79	32.86	-61.78	-13.00	48.78	199	278	Vertical	
6	5740	42.16	-44.61	33.53	-64.18	-13.00	51.18	251	305	Vertical	

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Test Band = 5G NR SA n13_5M_TM1

Test Channel = Mid

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1559.4286	68.16	-48.30	25.40	-49.99	-40.00	9.99	258	215	Horizontal	
2	1718.8571	50.50	-48.12	25.40	-67.48	-13.00	54.48	147	158	Horizontal	
3	2031.4286	47.71	-47.84	26.75	-68.64	-13.00	55.64	169	158	Horizontal	
4	2339.4286	69.45	-47.48	27.41	-45.88	-13.00	32.88	215	201	Horizontal	
5	3899.4286	54.23	-46.23	30.56	-56.70	-13.00	43.70	148	201	Horizontal	
6	4904	52.04	-45.59	32.61	-56.20	-13.00	43.20	139	251	Horizontal	

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1559.4286	69.59	-48.30	25.40	-48.56	-40.00	8.56	245	111	Vertical	
2	2000	53.64	-47.90	26.64	-62.88	-13.00	49.88	156	213	Vertical	
3	2339.4286	72.86	-47.48	27.41	-42.47	-13.00	29.47	138	268	Vertical	
4	3119.4286	45.46	-46.66	29.55	-66.91	-13.00	53.91	199	225	Vertical	
5	3898.8571	55.06	-46.23	30.56	-55.87	-13.00	42.87	241	198	Vertical	
6	4992	46.68	-45.79	32.86	-61.51	-13.00	48.51	105	265	Vertical	

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Test Band = 5G NR SA n13_5M_TM1

Test Channel = High

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1564.5714	69.22	-48.29	25.40	-48.94	-40.00	8.94	211	255	Horizontal	
2	2346.8571	69.51	-47.48	27.41	-45.81	-13.00	32.81	156	264	Horizontal	
3	3129.7143	50.40	-46.61	29.56	-61.91	-13.00	48.91	136	269	Horizontal	
4	3911.4286	56.71	-46.23	30.59	-54.18	-13.00	41.18	288	295	Horizontal	
5	4904	50.93	-45.59	32.61	-57.31	-13.00	44.31	195	251	Horizontal	
6	5476.5714	47.39	-45.10	32.88	-60.09	-13.00	47.09	172	348	Horizontal	

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1564.5714	71.05	-48.29	25.40	-47.11	-40.00	7.11	245	136	Vertical	
2	2346.8571	74.49	-47.48	27.41	-40.83	-13.00	27.83	153	307	Vertical	
3	3129.1429	48.69	-46.62	29.56	-63.62	-13.00	50.62	236	4	Vertical	
4	3911.4286	54.55	-46.23	30.59	-56.34	-13.00	43.34	245	254	Vertical	
5	4693.7143	49.89	-45.80	32.00	-59.17	-13.00	46.17	199	201	Vertical	
6	5476.5714	51.69	-45.10	32.88	-55.79	-13.00	42.79	177	281	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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