

Report No.: SEWM2311000454RG02

Rev.: 01

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# Appendix B.25

## NR Band n77(3450-3550)



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

#### Ant6:

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N77(3450-3550)	30	100	DFT-PI2BPSK	M	1RB1	24.77	27.37	30	PASS
N77(3450-3550)	30	100	DFT-PI2BPSK	M	1RB271	24.37	26.97	30	PASS
N77(3450-3550)	30	100	DFT-PI2BPSK	M	272RB0	23.69	26.29	30	PASS
N77(3450-3550)	30	100	DFT-QPSK	M	1RB1	24.91	27.51	30	PASS
N77(3450-3550)	30	100	DFT-QPSK	M	1RB271	24.58	27.18	30	PASS
N77(3450-3550)	30	100	DFT-QPSK	M	272RB0	23.57	26.17	30	PASS
N77(3450-3550)	30	100	DFT-16QAM	M	1RB1	24.04	26.64	30	PASS
N77(3450-3550)	30	100	DFT-64QAM	M	1RB1	22.65	25.25	30	PASS
N77(3450-3550)	30	100	DFT-256QAM	M	1RB1	20.61	23.21	30	PASS
N77(3450-3550)	30	100	CP-QPSK	M	1RB1	22.83	25.43	30	PASS
N77(3450-3550)	30	90	DFT-QPSK	L	1RB1	24.64	27.24	30	PASS
N77(3450-3550)	30	90	DFT-16QAM	L	1RB1	23.28	25.88	30	PASS
N77(3450-3550)	30	90	DFT-QPSK	M	1RB1	24.52	27.12	30	PASS
N77(3450-3550)	30	90	DFT-16QAM	M	1RB1	23.67	26.27	30	PASS
N77(3450-3550)	30	90	DFT-QPSK	H	1RB1	24.52	27.12	30	PASS
N77(3450-3550)	30	90	DFT-16QAM	H	1RB1	23.31	25.91	30	PASS
N77(3450-3550)	30	80	DFT-QPSK	L	1RB1	24.36	26.96	30	PASS
N77(3450-3550)	30	80	DFT-16QAM	L	1RB1	23.19	25.79	30	PASS
N77(3450-3550)	30	80	DFT-QPSK	M	1RB1	24.55	27.15	30	PASS
N77(3450-3550)	30	80	DFT-16QAM	M	1RB1	23.45	26.05	30	PASS
N77(3450-3550)	30	80	DFT-QPSK	H	1RB1	24.42	27.02	30	PASS
N77(3450-3550)	30	80	DFT-16QAM	H	1RB1	23.24	25.84	30	PASS
N77(3450-3550)	30	70	DFT-QPSK	L	1RB1	24.59	27.19	30	PASS
N77(3450-3550)	30	70	DFT-16QAM	L	1RB1	23.43	26.03	30	PASS
N77(3450-3550)	30	70	DFT-QPSK	M	1RB1	24.55	27.15	30	PASS
N77(3450-3550)	30	70	DFT-16QAM	M	1RB1	23.26	25.86	30	PASS
N77(3450-3550)	30	70	DFT-QPSK	H	1RB1	24.5	27.1	30	PASS
N77(3450-3550)	30	70	DFT-16QAM	H	1RB1	23.3	25.9	30	PASS
N77(3450-3550)	30	60	DFT-QPSK	L	1RB1	24.43	27.03	30	PASS



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000  
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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t (86-512) 62992980 sgs.china@sgs.com



N77(3450-3550)	30	60	DFT-16QAM	L	1RB1	23.35	25.95	30	PASS
N77(3450-3550)	30	60	DFT-QPSK	M	1RB1	24.56	27.16	30	PASS
N77(3450-3550)	30	60	DFT-16QAM	M	1RB1	23.35	25.95	30	PASS
N77(3450-3550)	30	60	DFT-QPSK	H	1RB1	24.44	27.04	30	PASS
N77(3450-3550)	30	60	DFT-16QAM	H	1RB1	23.23	25.83	30	PASS
N77(3450-3550)	30	50	DFT-QPSK	L	1RB1	24.49	27.09	30	PASS
N77(3450-3550)	30	50	DFT-16QAM	L	1RB1	23.16	25.76	30	PASS
N77(3450-3550)	30	50	DFT-QPSK	M	1RB1	24.58	27.18	30	PASS
N77(3450-3550)	30	50	DFT-16QAM	M	1RB1	23.28	25.88	30	PASS
N77(3450-3550)	30	50	DFT-QPSK	H	1RB1	24.35	26.95	30	PASS
N77(3450-3550)	30	50	DFT-16QAM	H	1RB1	23.39	25.99	30	PASS
N77(3450-3550)	30	40	DFT-QPSK	L	1RB1	24.68	27.28	30	PASS
N77(3450-3550)	30	40	DFT-16QAM	L	1RB1	23.26	25.86	30	PASS
N77(3450-3550)	30	40	DFT-QPSK	M	1RB1	24.31	26.91	30	PASS
N77(3450-3550)	30	40	DFT-16QAM	M	1RB1	23.5	26.1	30	PASS
N77(3450-3550)	30	40	DFT-QPSK	H	1RB1	24.54	27.14	30	PASS
N77(3450-3550)	30	40	DFT-16QAM	H	1RB1	23.5	26.1	30	PASS
N77(3450-3550)	30	30	DFT-QPSK	L	1RB1	24.41	27.01	30	PASS
N77(3450-3550)	30	30	DFT-16QAM	L	1RB1	23.34	25.94	30	PASS
N77(3450-3550)	30	30	DFT-QPSK	M	1RB1	24.5	27.1	30	PASS
N77(3450-3550)	30	30	DFT-16QAM	M	1RB1	23.21	25.81	30	PASS
N77(3450-3550)	30	30	DFT-QPSK	H	1RB1	24.44	27.04	30	PASS
N77(3450-3550)	30	30	DFT-16QAM	H	1RB1	23.63	26.23	30	PASS
N77(3450-3550)	30	20	DFT-QPSK	L	1RB1	24.51	27.11	30	PASS
N77(3450-3550)	30	20	DFT-16QAM	L	1RB1	23.21	25.81	30	PASS
N77(3450-3550)	30	20	DFT-QPSK	M	1RB1	24.63	27.23	30	PASS
N77(3450-3550)	30	20	DFT-16QAM	M	1RB1	23.39	25.99	30	PASS
N77(3450-3550)	30	20	DFT-QPSK	H	1RB1	24.45	27.05	30	PASS
N77(3450-3550)	30	20	DFT-16QAM	H	1RB1	23.28	25.88	30	PASS
N77(3450-3550)	30	15	DFT-QPSK	L	1RB1	24.31	26.91	30	PASS
N77(3450-3550)	30	15	DFT-16QAM	L	1RB1	23.31	25.91	30	PASS
N77(3450-3550)	30	15	DFT-QPSK	M	1RB1	24.58	27.18	30	PASS
N77(3450-3550)	30	15	DFT-16QAM	M	1RB1	23.43	26.03	30	PASS
N77(3450-3550)	30	15	DFT-QPSK	H	1RB1	24.44	27.04	30	PASS
N77(3450-3550)	30	15	DFT-16QAM	H	1RB1	23.13	25.73	30	PASS
N77(3450-3550)	30	10	DFT-QPSK	L	1RB1	24.47	27.07	30	PASS
N77(3450-3550)	30	10	DFT-16QAM	L	1RB1	23.1	25.7	30	PASS



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N77(3450-3550)	30	10	DFT-QPSK	M	1RB1	24.31	26.91	30	PASS
N77(3450-3550)	30	10	DFT-16QAM	M	1RB1	23.6	26.2	30	PASS
N77(3450-3550)	30	10	DFT-QPSK	H	1RB1	24.61	27.21	30	PASS
N77(3450-3550)	30	10	DFT-16QAM	H	1RB1	23.24	25.84	30	PASS



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### Field Strength of Spurious Radiation

Test Band = NR Band 77 3450-3550\_ TM1

Test Channel = Mid Channel \_Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8174.2083	40.96	-44.27	36.44	-62.13	-13.00	49.13	Horizontal
2	11786.1667	37.25	-39.33	39.24	-58.10	-13.00	45.10	Horizontal
3	6910.2	43.32	-46.12	35.40	-62.65	-13.00	49.65	Horizontal
4	10365.3	37.52	-41.19	38.83	-60.10	-13.00	47.10	Horizontal
5	13820.4	35.51	-38.48	40.49	-57.75	-13.00	44.75	Horizontal
6	17275.5	34.37	-37.12	40.66	-57.35	-13.00	44.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7972.4792	42.01	-44.46	36.23	-61.48	-13.00	48.48	Vertical
2	12072.2292	37.49	-39.17	39.16	-57.78	-13.00	44.78	Vertical
3	6910.2	42.23	-46.12	35.40	-63.74	-13.00	50.74	Vertical
4	10365.3	37.60	-41.19	38.83	-60.02	-13.00	47.02	Vertical
5	13820.4	34.17	-38.48	40.49	-59.09	-13.00	46.09	Vertical
6	17275.5	34.06	-37.12	40.66	-57.66	-13.00	44.66	Vertical



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**Test Band = ENDC N41A-N77A 3450-3550\_ TM1**

**Test Channel = Mid Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8496.6875	44.74	-43.70	36.90	-57.33	-13.00	44.33	Horizontal
2	12027.6667	40.91	-38.79	39.18	-53.96	-13.00	40.96	Horizontal
3	7010.18	44.23	-45.93	35.62	-61.34	-13.00	48.34	Horizontal
4	10515.27	39.54	-40.67	38.96	-57.42	-13.00	44.42	Horizontal
5	14020.36	35.80	-39.06	40.88	-57.63	-13.00	44.63	Horizontal
6	17525.45	34.78	-36.28	42.26	-54.49	-13.00	41.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8483.75	44.86	-43.79	36.88	-57.31	-13.00	44.31	Vertical
2	12035.8125	40.52	-38.86	39.18	-54.42	-13.00	41.42	Vertical
3	7010.18	44.58	-45.93	35.62	-60.99	-13.00	47.99	Vertical
4	10515.27	39.56	-40.67	38.96	-57.40	-13.00	44.40	Vertical
5	14020.36	36.09	-39.06	40.88	-57.34	-13.00	44.34	Vertical
6	17525.45	35.09	-36.28	42.26	-54.18	-13.00	41.18	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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