

Appendix B.25

NR Band n77(3450-3550)



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT12

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Inner_1RB_Left	23.16	24.41	30.00	PASS
N77-3450-3550	30	20	DFT-16QAM	L	Inner_1RB_Left	22.36	23.61	30.00	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Inner_1RB_Left	23.22	24.47	30.00	PASS
N77-3450-3550	30	20	DFT-16QAM	M	Inner_1RB_Left	22.43	23.68	30.00	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Inner_1RB_Left	22.96	24.21	30.00	PASS
N77-3450-3550	30	20	DFT-16QAM	H	Inner_1RB_Left	22.22	23.47	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	L	Inner_1RB_Left	22.43	23.68	30.00	PASS
N77-3450-3550	30	30	DFT-16QAM	L	Inner_1RB_Left	23.24	24.49	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	M	Inner_1RB_Left	22.45	23.70	30.00	PASS
N77-3450-3550	30	30	DFT-16QAM	M	Inner_1RB_Left	23.29	24.54	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	H	Inner_1RB_Left	22.47	23.72	30.00	PASS
N77-3450-3550	30	30	DFT-16QAM	H	Inner_1RB_Left	23.00	24.25	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	L	Inner_1RB_Left	22.20	23.45	30.00	PASS
N77-3450-3550	30	40	DFT-16QAM	L	Inner_1RB_Left	23.19	24.44	30.00	PASS
N77-3450-3550	30	40	DFT-QPSK	M	Inner_1RB_Left	22.44	23.69	30.00	PASS
N77-3450-3550	30	40	DFT-16QAM	M	Inner_1RB_Left	23.13	24.38	30.00	PASS
N77-3450-3550	30	40	DFT-QPSK	H	Inner_1RB_Left	22.44	23.69	30.00	PASS
N77-3450-3550	30	40	DFT-16QAM	H	Inner_1RB_Left	23.06	24.31	30.00	PASS
N77-3450-3550	30	40	DFT-QPSK	L	Inner_1RB_Left	22.35	23.60	30.00	PASS
N77-3450-3550	30	50	DFT-16QAM	L	Inner_1RB_Left	23.11	24.36	30.00	PASS
N77-3450-3550	30	50	DFT-QPSK	M	Inner_1RB_Left	22.31	23.56	30.00	PASS
N77-3450-3550	30	50	DFT-16QAM	M	Inner_1RB_Left	22.87	24.12	30.00	PASS
N77-3450-3550	30	50	DFT-QPSK	H	Inner_1RB_Left	22.11	23.36	30.00	PASS
N77-3450-3550	30	50	DFT-16QAM	H	Inner_1RB_Left	22.85	24.10	30.00	PASS
N77-3450-3550	30	50	DFT-QPSK	L	Inner_1RB_Left	22.10	23.35	30.00	PASS
N77-3450-3550	30	60	DFT-16QAM	L	Inner_1RB_Left	22.40	23.65	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	M	Inner_1RB_Left	23.18	24.43	30.00	PASS
N77-3450-3550	30	60	DFT-16QAM	M	Inner_1RB_Left	21.92	23.17	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Inner_1RB_Left	22.33	23.58	30.00	PASS
N77-3450-3550	30	60	DFT-16QAM	H	Inner_1RB_Left	22.74	23.99	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Inner_1RB_Left	21.97	23.22	30.00	PASS



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Report No.: SEWM2309000347RG02

Rev.: 01

Page: 3 of 5

N77-3450-3550	30	60	DFT-16QAM	L	Inner_1RB_Left	22.93	24.18	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	M	Inner_1RB_Left	22.15	23.40	30.00	PASS
N77-3450-3550	30	70	DFT-16QAM	M	Inner_1RB_Left	22.93	24.18	30.00	PASS
N77-3450-3550	30	70	DFT-QPSK	H	Inner_1RB_Left	22.19	23.44	30.00	PASS
N77-3450-3550	30	70	DFT-16QAM	H	Inner_1RB_Left	22.72	23.97	30.00	PASS
N77-3450-3550	30	70	DFT-QPSK	L	Inner_1RB_Left	21.97	23.22	30.00	PASS
N77-3450-3550	30	70	DFT-16QAM	L	Inner_1RB_Left	22.79	24.04	30.00	PASS
N77-3450-3550	30	70	DFT-QPSK	M	Inner_1RB_Left	22.02	23.27	30.00	PASS
N77-3450-3550	30	80	DFT-16QAM	M	Inner_1RB_Left	22.97	24.22	30.00	PASS
N77-3450-3550	30	80	DFT-QPSK	H	Inner_1RB_Left	22.21	23.46	30.00	PASS
N77-3450-3550	30	80	DFT-16QAM	H	Inner_1RB_Left	22.72	23.97	30.00	PASS
N77-3450-3550	30	80	DFT-QPSK	L	Inner_1RB_Left	22.04	23.29	30.00	PASS
N77-3450-3550	30	80	DFT-16QAM	L	Inner_1RB_Left	22.64	23.89	30.00	PASS
N77-3450-3550	30	80	DFT-QPSK	M	Inner_1RB_Left	21.89	23.14	30.00	PASS
N77-3450-3550	30	90	DFT-16QAM	M	Inner_1RB_Left	22.93	24.18	30.00	PASS
N77-3450-3550	30	90	DFT-QPSK	H	Inner_1RB_Left	22.17	23.42	30.00	PASS
N77-3450-3550	30	90	DFT-16QAM	H	Inner_1RB_Left	22.75	24.00	30.00	PASS
N77-3450-3550	30	90	DFT-QPSK	L	Inner_1RB_Left	22.03	23.28	30.00	PASS
N77-3450-3550	30	90	DFT-16QAM	L	Inner_1RB_Left	22.84	24.09	30.00	PASS
N77-3450-3550	30	90	DFT-QPSK	M	Inner_1RB_Left	22.06	23.31	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	22.94	24.19	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	L	Inner_1RB_Right	22.82	24.07	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	L	Outer_Full	22.26	23.51	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	L	Inner_1RB_Left	22.96	24.21	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	L	Inner_1RB_Right	22.81	24.06	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	L	Outer_Full	21.74	22.99	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	L	Inner_1RB_Left	22.18	23.43	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	L	Inner_1RB_Right	22.06	23.31	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	L	Outer_Full	20.81	22.06	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	L	Inner_1RB_Left	20.27	21.52	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	L	Inner_1RB_Right	20.17	21.42	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	L	Outer_Full	20.23	21.48	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	L	Inner_1RB_Left	19.07	20.32	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	L	Inner_1RB_Right	19.07	20.32	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	L	Outer_Full	19.06	20.31	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	22.94	24.19	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Inner_1RB_Right	22.84	24.09	30.00	PASS



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Report No.: SEWM2309000347RG02

Rev.: 01

Page: 4 of 5

N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	22.35	23.60	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Inner_1RB_Left	22.99	24.24	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Inner_1RB_Right	22.88	24.13	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Outer_Full	21.83	23.08	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Inner_1RB_Left	22.19	23.44	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Inner_1RB_Right	22.06	23.31	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Outer_Full	20.82	22.07	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Inner_1RB_Left	20.29	21.54	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Inner_1RB_Right	20.20	21.45	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Outer_Full	20.34	21.59	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Inner_1RB_Left	19.06	20.31	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Inner_1RB_Right	19.07	20.32	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Outer_Full	19.03	20.28	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	22.77	24.02	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	H	Inner_1RB_Right	22.65	23.90	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	H	Outer_Full	22.11	23.36	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	H	Inner_1RB_Left	22.80	24.05	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	H	Inner_1RB_Right	22.72	23.97	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	H	Outer_Full	21.67	22.92	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	H	Inner_1RB_Left	22.01	23.26	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	H	Inner_1RB_Right	21.90	23.15	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	H	Outer_Full	20.67	21.92	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	H	Inner_1RB_Left	20.18	21.43	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	H	Inner_1RB_Right	20.04	21.29	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	H	Outer_Full	20.20	21.45	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Inner_1RB_Left	18.94	20.19	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Inner_1RB_Right	18.93	20.18	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Outer_Full	18.95	20.20	30.00	PASS



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Field Strength of Spurious Radiation

Test Band = SA Band77_ TM1

Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7635.625	38.79	-42.81	36.65	-62.63	-13.00	49.63	Horizontal
2	8934.55	36.13	-40.90	36.33	-63.69	-13.00	50.69	Horizontal
3	10625.625	30.21	-37.88	38.51	-64.41	-13.00	51.41	Horizontal
4	11528.375	26.50	-36.64	38.75	-66.65	-13.00	53.65	Horizontal
5	14497.1	24.58	-34.25	41.10	-63.84	-13.00	50.84	Horizontal
6	15821.325	25.19	-33.29	39.58	-63.78	-13.00	50.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8409	37.72	-41.41	36.60	-62.35	-13.00	49.35	Vertical
2	9596.95	33.84	-39.22	37.43	-63.21	-13.00	50.21	Vertical
3	10635.4	30.56	-37.83	38.52	-64.01	-13.00	51.01	Vertical
4	11703.175	25.18	-36.13	38.77	-67.43	-13.00	54.43	Vertical
5	13921.525	26.21	-35.40	40.76	-63.69	-13.00	50.69	Vertical
6	15808.1	25.08	-33.15	39.60	-63.72	-13.00	50.72	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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