



# Appendix B.19

## NR CA\_n77C(3700-3980)



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

**ZEWM2306000857RG02**

**Test Result**

ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	EIRP	LIMIT	Verdict
N77C	30	100+80	DFT-QPSK	650000+655994	Inner_1RB_Left	21.34	19.04	30	PASS
N77C	30	100+80	DFT-QPSK	650000+655994	Inner_1RB_Right	21.33	19.03	30	PASS
N77C	30	100+80	DFT-QPSK	650000+655994	Outer_Full	17.26	14.96	30	PASS
N77C	30	100+80	DFT-256QAM	650000+655994	Inner_1RB_Left	16.33	14.03	30	PASS
N77C	30	100+80	DFT-256QAM	650000+655994	Inner_1RB_Right	16.27	13.97	30	PASS
N77C	30	100+80	DFT-256QAM	650000+655994	Outer_Full	16.33	14.03	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Inner_1RB_Left	21.48	19.18	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Inner_1RB_Right	21.45	19.15	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Outer_Full	19.53	17.23	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Inner_1RB_Left	17.23	14.93	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Inner_1RB_Right	16.66	14.36	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Outer_Full	16.62	14.32	30	PASS



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

**ZEWM2306000856RG02**

**Test Result**

ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	EIRP	LIMIT	Verdict
N77C	30	100+90	DFT-QPSK	650000+656330	Inner_1RB_Left	21.45	19.15	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Inner_1RB_Right	21.44	19.14	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Outer_Full	19.5	17.2	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Inner_1RB_Left	17.13	14.83	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Inner_1RB_Right	16.64	14.34	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Outer_Full	16.55	14.25	30	PASS



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**26dB Bandwidth and Occupied Bandwidth for SA**

**Test Result**

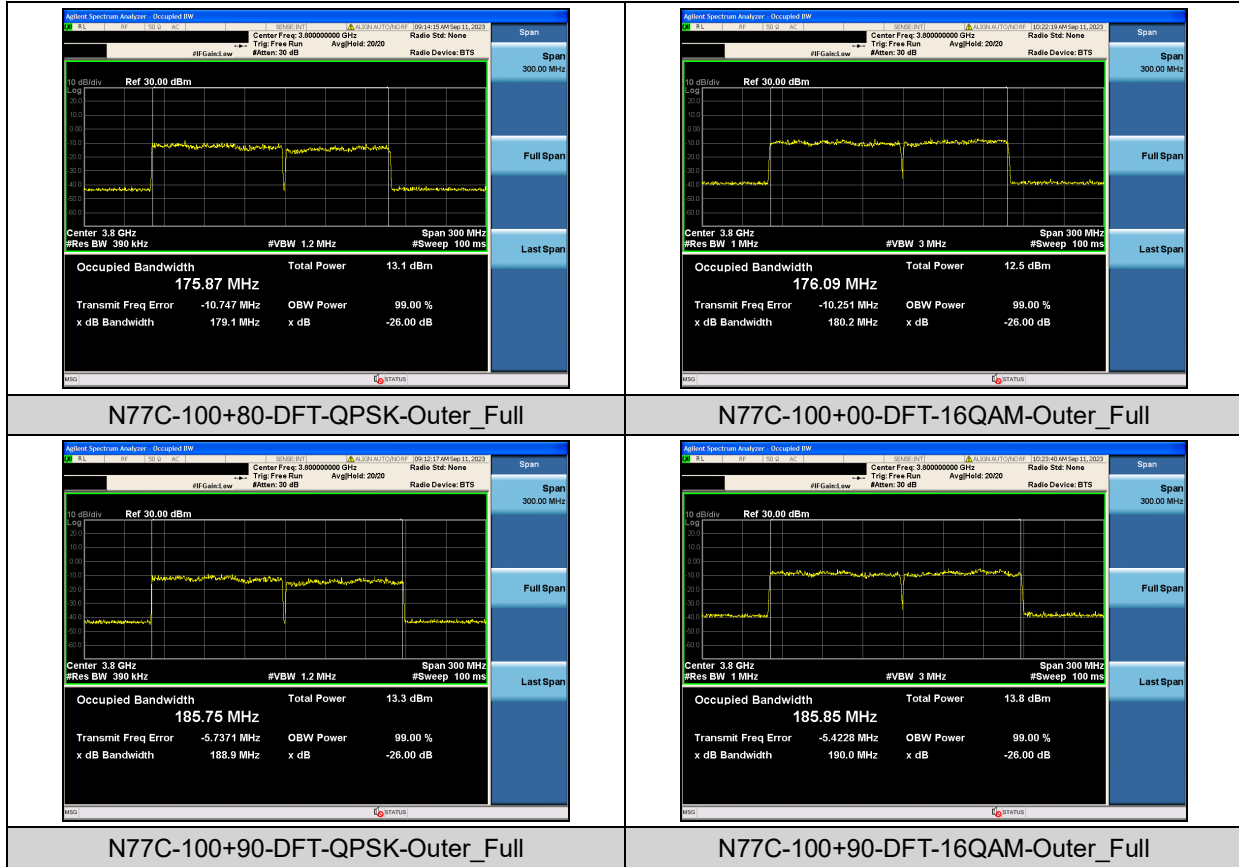
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
77	30	100+80	DFT-QPSK	650000+655994	Outer_Full	175.87	179.1	PASS
77	30	100+80	DFT-16QAM	650000+655994	Outer_Full	176.09	180.2	PASS
77	30	100+90	DFT-QPSK	650000+656330	Outer_Full	185.75	188.9	PASS
77	30	100+90	DFT-16QAM	650000+656330	Outer_Full	185.85	190.0	PASS



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## Occupied Bandwidth Test Graphs



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**Field Strength of Spurious Radiation**

**Test Band = NR Band 77C 3700-3980\_ TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7425.2708	44.14	-45.70	36.62	-60.20	-13.00	47.20	Horizontal
2	14849.4792	37.16	-37.97	40.22	-55.85	-13.00	42.85	Horizontal
3	6910.18	43.12	-46.12	35.40	-62.85	-13.00	49.85	Horizontal
4	10365.27	38.45	-41.19	38.83	-59.17	-13.00	46.17	Horizontal
5	13820.36	36.59	-38.48	40.49	-56.67	-13.00	43.67	Horizontal
6	17275.45	35.59	-37.12	40.66	-56.13	-13.00	43.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8750.6458	42.07	-43.78	37.25	-59.72	-13.00	46.72	Vertical
2	12084.2083	38.60	-39.27	39.15	-56.78	-13.00	43.78	Vertical
3	6910.18	43.29	-46.12	35.40	-62.68	-13.00	49.68	Vertical
4	10365.27	38.83	-41.19	38.83	-58.79	-13.00	45.79	Vertical
5	13820.36	36.59	-38.48	40.49	-56.67	-13.00	43.67	Vertical
6	17275.45	35.62	-37.12	40.66	-56.10	-13.00	43.10	Vertical



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**Test Band = NR Band 77C 3700-3980\_ TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	9136.8542	41.04	-43.05	37.72	-59.54	-13.00	46.54	Horizontal
2	12987.4375	38.78	-38.80	38.61	-56.68	-13.00	43.68	Horizontal
3	17963.5833	37.43	-37.08	45.07	-49.85	-13.00	36.85	Horizontal
4	7310.18	43.24	-45.96	36.34	-61.64	-13.00	48.64	Horizontal
5	10965.27	38.15	-40.40	39.37	-58.14	-13.00	45.14	Horizontal
6	14620.36	36.22	-38.14	40.40	-56.77	-13.00	43.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8061.6042	41.78	-44.37	36.29	-61.56	-13.00	48.56	Vertical
2	8504.8333	42.40	-43.70	36.91	-59.65	-13.00	46.65	Vertical
3	17827.0208	36.75	-37.81	44.19	-52.12	-13.00	39.12	Vertical
4	7310.18	43.48	-45.96	36.34	-61.40	-13.00	48.40	Vertical
5	10965.27	37.78	-40.40	39.37	-58.51	-13.00	45.51	Vertical
6	14620.36	36.38	-38.14	40.40	-56.61	-13.00	43.61	Vertical



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**Test Band = NR Band 77C 3700-3980\_ TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8317	42.43	-44.53	36.64	-60.71	-13.00	47.71	Horizontal
2	13414.8542	38.40	-39.03	39.55	-56.33	-13.00	43.33	Horizontal
3	17501.1875	36.16	-36.13	42.11	-53.12	-13.00	40.12	Horizontal
4	7590.18	41.54	-45.00	36.69	-62.02	-13.00	49.02	Horizontal
5	11835.27	36.64	-39.48	39.23	-58.87	-13.00	45.87	Horizontal
6	15180.36	35.13	-37.74	39.76	-58.11	-13.00	45.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8916.9167	41.75	-43.56	37.48	-59.59	-13.00	46.59	Vertical
2	11152.2292	38.56	-40.03	39.37	-57.36	-13.00	44.36	Vertical
3	17565.875	36.33	-36.52	42.52	-52.93	-13.00	39.93	Vertical
4	7590.18	42.10	-45.00	36.69	-61.46	-13.00	48.46	Vertical
5	11835.27	37.16	-39.48	39.23	-58.35	-13.00	45.35	Vertical
6	15180.36	35.23	-37.74	39.76	-58.01	-13.00	45.01	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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