

# Appendix B.22

## NR Band n77(3450-3550)



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

**SEWM2307000261RG02**

**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	26.95	29.55	30	PASS
N77(3450-3550)	30	100	DFT-PI2BPSK	M	1RB271	26.51	29.11	30	PASS
N77(3450-3550)	30	100	DFT-PI2BPSK	M	272RB0	25.81	28.41	30	PASS
N77(3450-3550)	30	100	DFT-QPSK	M	1RB1	27.01	29.61	30	PASS
N77(3450-3550)	30	100	DFT-QPSK	M	1RB271	26.68	29.28	30	PASS
N77(3450-3550)	30	100	DFT-QPSK	M	272RB0	25.75	28.35	30	PASS
N77(3450-3550)	30	100	DFT-16QAM	M	1RB1	26.23	28.83	30	PASS
N77(3450-3550)	30	100	DFT-64QAM	M	1RB1	24.82	27.42	30	PASS
N77(3450-3550)	30	100	DFT-256QAM	M	1RB1	22.74	25.34	30	PASS
N77(3450-3550)	30	100	CP-QPSK	M	1RB1	24.94	27.54	30	PASS
N77(3450-3550)	30	90	DFT-QPSK	L	1RB1	26.76	29.36	30	PASS
N77(3450-3550)	30	90	DFT-16QAM	L	1RB1	25.38	27.98	30	PASS
N77(3450-3550)	30	90	DFT-QPSK	M	1RB1	26.62	29.22	30	PASS
N77(3450-3550)	30	90	DFT-16QAM	M	1RB1	25.8	28.4	30	PASS
N77(3450-3550)	30	90	DFT-QPSK	H	1RB1	26.66	29.26	30	PASS
N77(3450-3550)	30	90	DFT-16QAM	H	1RB1	25.49	28.09	30	PASS
N77(3450-3550)	30	80	DFT-QPSK	L	1RB1	26.55	29.15	30	PASS
N77(3450-3550)	30	80	DFT-16QAM	L	1RB1	25.32	27.92	30	PASS
N77(3450-3550)	30	80	DFT-QPSK	M	1RB1	26.68	29.28	30	PASS
N77(3450-3550)	30	80	DFT-16QAM	M	1RB1	25.59	28.19	30	PASS
N77(3450-3550)	30	80	DFT-QPSK	H	1RB1	26.61	29.21	30	PASS
N77(3450-3550)	30	80	DFT-16QAM	H	1RB1	25.39	27.99	30	PASS
N77(3450-3550)	30	70	DFT-QPSK	L	1RB1	26.7	29.3	30	PASS
N77(3450-3550)	30	70	DFT-16QAM	L	1RB1	25.61	28.21	30	PASS
N77(3450-3550)	30	70	DFT-QPSK	M	1RB1	26.65	29.25	30	PASS
N77(3450-3550)	30	70	DFT-16QAM	M	1RB1	25.42	28.02	30	PASS
N77(3450-3550)	30	70	DFT-QPSK	H	1RB1	26.66	29.26	30	PASS
N77(3450-3550)	30	70	DFT-16QAM	H	1RB1	25.42	28.02	30	PASS



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N77(3450-3550)	30	60	DFT-QPSK	L	1RB1	26.58	29.18	30	PASS
N77(3450-3550)	30	60	DFT-16QAM	L	1RB1	25.51	28.11	30	PASS
N77(3450-3550)	30	60	DFT-QPSK	M	1RB1	26.68	29.28	30	PASS
N77(3450-3550)	30	60	DFT-16QAM	M	1RB1	25.48	28.08	30	PASS
N77(3450-3550)	30	60	DFT-QPSK	H	1RB1	26.58	29.18	30	PASS
N77(3450-3550)	30	60	DFT-16QAM	H	1RB1	25.41	28.01	30	PASS
N77(3450-3550)	30	50	DFT-QPSK	L	1RB1	26.62	29.22	30	PASS
N77(3450-3550)	30	50	DFT-16QAM	L	1RB1	25.3	27.9	30	PASS
N77(3450-3550)	30	50	DFT-QPSK	M	1RB1	26.71	29.31	30	PASS
N77(3450-3550)	30	50	DFT-16QAM	M	1RB1	25.4	28	30	PASS
N77(3450-3550)	30	50	DFT-QPSK	H	1RB1	26.53	29.13	30	PASS
N77(3450-3550)	30	50	DFT-16QAM	H	1RB1	25.51	28.11	30	PASS
N77(3450-3550)	30	40	DFT-QPSK	L	1RB1	26.8	29.4	30	PASS
N77(3450-3550)	30	40	DFT-16QAM	L	1RB1	25.41	28.01	30	PASS
N77(3450-3550)	30	40	DFT-QPSK	M	1RB1	26.45	29.05	30	PASS
N77(3450-3550)	30	40	DFT-16QAM	M	1RB1	25.64	28.24	30	PASS
N77(3450-3550)	30	40	DFT-QPSK	H	1RB1	26.69	29.29	30	PASS
N77(3450-3550)	30	40	DFT-16QAM	H	1RB1	25.64	28.24	30	PASS
N77(3450-3550)	30	30	DFT-QPSK	L	1RB1	26.52	29.12	30	PASS
N77(3450-3550)	30	30	DFT-16QAM	L	1RB1	25.51	28.11	30	PASS
N77(3450-3550)	30	30	DFT-QPSK	M	1RB1	26.68	29.28	30	PASS
N77(3450-3550)	30	30	DFT-16QAM	M	1RB1	25.38	27.98	30	PASS
N77(3450-3550)	30	30	DFT-QPSK	H	1RB1	26.54	29.14	30	PASS
N77(3450-3550)	30	30	DFT-16QAM	H	1RB1	25.75	28.35	30	PASS
N77(3450-3550)	30	20	DFT-QPSK	L	1RB1	26.62	29.22	30	PASS
N77(3450-3550)	30	20	DFT-16QAM	L	1RB1	25.39	27.99	30	PASS
N77(3450-3550)	30	20	DFT-QPSK	M	1RB1	26.78	29.38	30	PASS
N77(3450-3550)	30	20	DFT-16QAM	M	1RB1	25.5	28.1	30	PASS
N77(3450-3550)	30	20	DFT-QPSK	H	1RB1	26.63	29.23	30	PASS
N77(3450-3550)	30	20	DFT-16QAM	H	1RB1	25.43	28.03	30	PASS
N77(3450-3550)	30	15	DFT-QPSK	L	1RB1	26.5	29.1	30	PASS
N77(3450-3550)	30	15	DFT-16QAM	L	1RB1	25.43	28.03	30	PASS
N77(3450-3550)	30	15	DFT-QPSK	M	1RB1	26.72	29.32	30	PASS
N77(3450-3550)	30	15	DFT-16QAM	M	1RB1	25.57	28.17	30	PASS
N77(3450-3550)	30	15	DFT-QPSK	H	1RB1	26.61	29.21	30	PASS
N77(3450-3550)	30	15	DFT-16QAM	H	1RB1	25.31	27.91	30	PASS
N77(3450-3550)	30	10	DFT-QPSK	L	1RB1	26.64	29.24	30	PASS



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N77(3450-3550)	30	10	DFT-16QAM	L	1RB1	25.22	27.82	30	PASS
N77(3450-3550)	30	10	DFT-QPSK	M	1RB1	26.49	29.09	30	PASS
N77(3450-3550)	30	10	DFT-16QAM	M	1RB1	25.77	28.37	30	PASS
N77(3450-3550)	30	10	DFT-QPSK	H	1RB1	26.72	29.32	30	PASS
N77(3450-3550)	30	10	DFT-16QAM	H	1RB1	25.39	27.99	30	PASS



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## Effective (Isotropic) Radiated Power Output Data for

### SEWM2309000395RG02

#### 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	26.86	29.46	30	PASS
N77(3450-3550)	30	100	DFT-PI2BPSK	M	1RB271	26.42	29.02	30	PASS
N77(3450-3550)	30	100	DFT-PI2BPSK	M	272RB0	25.71	28.31	30	PASS



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### Field Strength of Spurious Radiation

Test Band = NR\_Band 77(3450~3550)\_ Ant 2TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9382.6667	40.87	-42.83	37.94	-59.28	-13.00	46.28	154	71	Vertical
2	12434	38.12	-38.48	38.94	-56.68	-13.00	43.68	289	317	Vertical
3	6910.18	42.92	-46.12	35.40	-63.05	-13.00	50.05	163	43	Vertical
4	10365.27	37.83	-41.19	38.83	-59.79	-13.00	46.79	234	275	Vertical
5	13820.36	35.64	-38.48	40.49	-57.62	-13.00	44.62	175	156	Vertical
6	17275.45	35.88	-37.12	40.66	-55.84	-13.00	42.84	188	176	Vertical

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8743.4583	42.13	-43.76	37.24	-59.65	-13.00	46.65	274	191	Horizontal
2	12032.9375	38.47	-38.84	39.18	-56.45	-13.00	43.45	159	228	Horizontal
3	6910.18	42.80	-46.12	35.40	-63.17	-13.00	50.17	266	300	Horizontal
4	10365.27	38.28	-41.19	38.83	-59.34	-13.00	46.34	235	257	Horizontal
5	13820.36	36.15	-38.48	40.49	-57.11	-13.00	44.11	205	7	Horizontal
6	17275.45	35.17	-37.12	40.66	-56.55	-13.00	43.55	192	0	Horizontal



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Test Band = NR\_Band 77(3450~3550)\_ Ant 6TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9369.25	41.40	-42.85	37.93	-58.78	-13.00	45.78	248	179	Vertical
2	12060.7292	38.49	-39.07	39.16	-56.68	-13.00	43.68	149	120	Vertical
3	6810.18	42.58	-46.55	35.18	-64.05	-13.00	51.05	263	216	Vertical
4	10215.27	37.66	-41.93	38.69	-60.83	-13.00	47.83	255	6	Vertical
5	13620.36	34.93	-38.21	40.03	-58.52	-13.00	45.52	145	89	Vertical
6	17025.45	34.93	-37.04	39.07	-58.31	-13.00	45.31	231	62	Vertical

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8755.9167	42.10	-43.79	37.26	-59.69	-13.00	46.69	187	179	Horizontal
2	14435	38.10	-38.58	40.55	-55.19	-13.00	42.19	194	136	Horizontal
3	6810.18	42.79	-46.55	35.18	-63.84	-13.00	50.84	227	159	Horizontal
4	10215.27	37.94	-41.93	38.69	-60.55	-13.00	47.55	154	316	Horizontal
5	13620.36	35.07	-38.21	40.03	-58.38	-13.00	45.38	136	349	Horizontal
6	17025.45	34.58	-37.04	39.07	-58.66	-13.00	45.66	209	254	Horizontal



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Test Band = NR\_Band 77(3450~3550)\_ Ant 7TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8745.8542	41.69	-43.77	37.24	-60.09	-13.00	47.09	174	167	Vertical
2	12405.25	37.77	-38.34	38.96	-56.87	-13.00	43.87	251	212	Vertical
3	6910.18	43.73	-46.12	35.40	-62.24	-13.00	49.24	163	340	Vertical
4	10365.27	38.74	-41.19	38.83	-58.88	-13.00	45.88	298	244	Vertical
5	13820.36	35.80	-38.48	40.49	-57.46	-13.00	44.46	170	57	Vertical
6	17275.45	35.62	-37.12	40.66	-56.10	-13.00	43.10	213	23	Vertical

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7841.6667	43.61	-44.93	36.39	-60.19	-13.00	47.19	196	247	Horizontal
2	12005.1458	37.89	-38.60	39.20	-56.78	-13.00	43.78	238	147	Horizontal
3	6910.18	42.77	-46.12	35.40	-63.20	-13.00	50.20	145	293	Horizontal
4	10365.27	38.86	-41.19	38.83	-58.76	-13.00	45.76	217	315	Horizontal
5	13820.36	36.20	-38.48	40.49	-57.06	-13.00	44.06	146	189	Horizontal
6	17275.45	36.12	-37.12	40.66	-55.60	-13.00	42.60	205	215	Horizontal



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Test Band = NR\_Band 77(3450~3550)\_ Ant 8TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8448.7708	41.53	-44.03	36.83	-60.93	-13.00	47.93	217	326	Vertical
2	12058.3333	38.05	-39.05	39.17	-57.09	-13.00	44.09	209	216	Vertical
3	6910.18	42.40	-46.12	35.40	-63.57	-13.00	50.57	136	194	Vertical
4	10365.27	38.05	-41.19	38.83	-59.57	-13.00	46.57	298	99	Vertical
5	13820.36	36.62	-38.48	40.49	-56.64	-13.00	43.64	244	311	Vertical
6	17275.45	35.49	-37.12	40.66	-56.23	-13.00	43.23	175	78	Vertical

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8946.1458	41.94	-43.59	37.52	-59.38	-13.00	46.38	195	142	Horizontal
2	12044.4375	38.17	-38.93	39.17	-56.85	-13.00	43.85	287	148	Horizontal
3	6910.18	43.47	-46.12	35.40	-62.50	-13.00	49.50	146	334	Horizontal
4	10365.27	38.87	-41.19	38.83	-58.75	-13.00	45.75	255	64	Horizontal
5	13820.36	36.25	-38.48	40.49	-57.01	-13.00	44.01	142	191	Horizontal
6	17275.45	35.33	-37.12	40.66	-56.39	-13.00	43.39	135	25	Horizontal

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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