TEST REPORT

Dt&C Co., Ltd.
42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042
Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2403-0025

2. Customer

- Name (FCC) : DASAN Networks, Inc.
- Address (FCC) : DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, South Korea 13493

3. Use of Report : FCC Certification

4. Product Name / Model Name : Telematics Gateway Unit / TGU (300611-02707)
FCC ID : 2AXDMTGU5GGLOBAL

5. FCC Regulation(s): Part 22, 24, 27, 90

Test Method used: KDB971168 D01v03, ANSI/TIA-603-E-2016, ANSI C63.26-2015

6. Date of Test : 2023.11.03 ~ 2024.02.20

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached Test Result

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test report is not related to KOLAS accreditation.

Affirmation	Tested by Name : SeungMin Gil (Signature)	Technical Manager Name : JaeJin Lee (Signature)

2024 . 03 . 08 .

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2403-0025	Mar. 08, 2024	Initial issue	SeungMin Gil	JaeJin Lee

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1. GENERAL INFORMATION

FCC Classification	PCS Licensed Transmitter (PCB)
FCC ID	2AXDMTGU5GGLOBAL
Product Name	Telematics Gateway Unit
Model Name	TGU (300611-02707)
Add Model Name	-
FVIN(Firmware Version Identification Number)	V0.03
EUT Serial Number	No specified
Power Supply	DC 12, 24V
Waveform	CP-OFDM, DFT-S-OFDM
Modulation type	π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM

Antenna Information (5GNR)

Band	Internal Chip Antenna 1 (dBi)	External Antenna 1 (dBi)	Internal Chip Antenna 2 (dBi)	External Antenna 2 (dBi)
71	**1.9**	1.7	NA	NA
12	0.8	**1.8**	NA	NA
13	-0.1	**0.1**	NA	NA
14	-0.4	**0**	NA	NA
26(814 ~ 824 MHz)	-0.4	**0.7**	NA	NA
26(824 ~ 849 MHz)	0.6	**0.7**	NA	NA
5	0.6	**0.7**	NA	NA
70	NA	NA	**1.6**	1.2
66	**2.6**	0.6	NA	NA
2	**4.4**	0.6	NA	NA
25	**4.4**	0.6	NA	NA
30	**2.4**	1.3	NA	NA
7	**3.7**	0.3	NA	NA
38	**3.1**	1.8	1.9	2.9
41	**3.7**	1.8	2.1	2.9
77, 78(3 450 ~ 3 550 MHz)	3.3	2.3	0.6	**3.2**
77(3 700 ~ 3 980 MHz)	4.7	3.1	2.2	**3.9**
78(3 700 ~ 3 800 MHz)	4.7	3.1	2.2	**3.9**

Note: The antenna gain was corrected for path loss from the conducted feed point to the antenna terminal.

Note: The device supports the MIMO for NR band n38/41/77/78.

-	Transmitting configuration for NR band n38/41
SISO	Internal Chip Antenna 1
SISO	External Antenna 1
MIMO	Internal Chip Antenna 1 + Internal Chip Antenna 2
MIMO	External Antenna 1 + External Antenna 2

-	Transmitting configuration for NR band n77/78
SISO	Internal Chip Antenna 2
SISO	External Antenna 2
MIMO	Internal Chip Antenna 1 + Internal Chip Antenna 2
MIMO	External Antenna 1 + External Antenna 2

Directional Gain(dBi)[Note1]

NR Band	Internal Chip Antenna 1 + Internal Chip Antenna 2	External Antenna 1 + External Antenna 2
38	**2.5**	2.4
41	**3.0**	2.4
77,78(3450 ~ 3550 MHz)	2.2	**2.8**
77(3700 ~ 3980 MHz)	**3.6**	3.5
78(3700 ~ 3800 MHz)	**3.6**	3.5

Note 1. Directional gain (Uncorrelated signal with unequal antenna gain and equal transmit power)

$10 \log [(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}) / N_{ANT}]$ dBi

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n71	20	π/2 BPSK	673 ~ 688	24.07	0.255	23.82	0.241
n71	20	QPSK	673 ~ 688	23.93	0.247	23.68	0.233
n71	20	16QAM	673 ~ 688	23.36	0.217	23.11	0.205
n71	20	64QAM	673 ~ 688	21.66	0.147	21.41	0.138
n71	20	256QAM	673 ~ 688	19.69	0.093	19.44	0.088
n71	15	π/2 BPSK	670.5 ~ 690.5	23.96	0.249	23.71	0.235
n71	15	QPSK	670.5 ~ 690.5	23.98	0.250	23.73	0.236
n71	15	16QAM	670.5 ~ 690.5	23.53	0.225	23.28	0.213
n71	15	64QAM	670.5 ~ 690.5	21.91	0.155	21.66	0.147
n71	15	256QAM	670.5 ~ 690.5	19.72	0.094	19.47	0.089
n71	10	π/2 BPSK	668 ~ 693	23.81	0.240	23.56	0.227
n71	10	QPSK	668 ~ 693	23.87	0.244	23.62	0.230
n71	10	16QAM	668 ~ 693	23.07	0.203	22.82	0.191
n71	10	64QAM	668 ~ 693	21.85	0.153	21.60	0.145
n71	10	256QAM	668 ~ 693	19.70	0.093	19.45	0.088
n71	5	π/2 BPSK	665.5 ~ 695.5	23.85	0.243	23.60	0.229
n71	5	QPSK	665.5 ~ 695.5	23.95	0.248	23.70	0.234
n71	5	16QAM	665.5 ~ 695.5	22.86	0.193	22.61	0.182
n71	5	64QAM	665.5 ~ 695.5	21.82	0.152	21.57	0.144
n71	5	256QAM	665.5 ~ 695.5	19.94	0.099	19.69	0.093
n12	15	π/2 BPSK	706.5 ~ 708.5	23.86	0.243	23.51	0.224
n12	15	QPSK	706.5 ~ 708.5	23.86	0.243	23.51	0.224
n12	15	16QAM	706.5 ~ 708.5	23.32	0.215	22.97	0.198
n12	15	64QAM	706.5 ~ 708.5	21.50	0.141	21.15	0.130
n12	15	256QAM	706.5 ~ 708.5	19.87	0.097	19.52	0.090
n12	10	π/2 BPSK	704 ~ 711	23.79	0.239	23.44	0.221
n12	10	QPSK	704 ~ 711	23.98	0.250	23.63	0.231
n12	10	16QAM	704 ~ 711	22.85	0.193	22.50	0.178
n12	10	64QAM	704 ~ 711	21.68	0.147	21.33	0.136
n12	10	256QAM	704 ~ 711	19.37	0.086	19.02	0.080
n12	5	π/2 BPSK	701.5 ~ 713.5	23.95	0.248	23.60	0.229
n12	5	QPSK	701.5 ~ 713.5	23.95	0.248	23.60	0.229
n12	5	16QAM	701.5 ~ 713.5	23.03	0.201	22.68	0.185
n12	5	64QAM	701.5 ~ 713.5	21.56	0.143	21.21	0.132
n12	5	256QAM	701.5 ~ 713.5	19.68	0.093	19.33	0.086
n13	10	π/2 BPSK	782	23.40	0.219	21.35	0.136
n13	10	QPSK	782	23.42	0.220	21.37	0.137
n13	10	16QAM	782	23.19	0.208	21.14	0.130
n13	10	64QAM	782	21.15	0.130	19.10	0.081
n13	10	256QAM	782	19.15	0.082	17.10	0.051
n13	5	π/2 BPSK	779.5 ~ 784.5	23.64	0.231	21.59	0.144
n13	5	QPSK	779.5 ~ 784.5	23.83	0.242	21.78	0.151
n13	5	16QAM	779.5 ~ 784.5	23.26	0.212	21.21	0.132
n13	5	64QAM	779.5 ~ 784.5	21.51	0.142	19.46	0.088
n13	5	256QAM	779.5 ~ 784.5	19.61	0.091	17.56	0.057

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n14	10	π/2 BPSK	793	23.70	0.234	21.55	0.143
n14	10	QPSK	793	24.13	0.259	21.98	0.158
n14	10	16QAM	793	23.22	0.210	21.07	0.128
n14	10	64QAM	793	21.83	0.152	19.68	0.093
n14	10	256QAM	793	19.20	0.083	17.05	0.051
n14	5	π/2 BPSK	790.5 ~ 795.5	23.91	0.246	21.76	0.150
n14	5	QPSK	790.5 ~ 795.5	23.88	0.244	21.73	0.149
n14	5	16QAM	790.5 ~ 795.5	23.04	0.201	20.89	0.123
n14	5	64QAM	790.5 ~ 795.5	22.07	0.161	19.92	0.098
n14	5	256QAM	790.5 ~ 795.5	19.81	0.096	17.66	0.058
n26(P90)	10	π/2 BPSK	819	23.58	0.228	22.13	0.163
n26(P90)	10	QPSK	819	23.74	0.237	22.29	0.169
n26(P90)	10	16QAM	819	22.81	0.191	21.36	0.137
n26(P90)	10	64QAM	819	21.46	0.140	20.01	0.100
n26(P90)	10	256QAM	819	19.63	0.092	18.18	0.066
n26(P90)	5	π/2 BPSK	816.5 ~ 821.5	23.65	0.232	22.20	0.166
n26(P90)	5	QPSK	816.5 ~ 821.5	23.66	0.232	22.21	0.166
n26(P90)	5	16QAM	816.5 ~ 821.5	23.27	0.212	21.82	0.152
n26(P90)	5	64QAM	816.5 ~ 821.5	21.71	0.148	20.26	0.106
n26(P90)	5	256QAM	816.5 ~ 821.5	19.57	0.091	18.12	0.065
n26(P22)	20	π/2 BPSK	834 ~ 839	23.78	0.239	22.33	0.171
n26(P22)	20	QPSK	834 ~ 839	23.76	0.238	22.31	0.170
n26(P22)	20	16QAM	834 ~ 839	23.21	0.209	21.76	0.150
n26(P22)	20	64QAM	834 ~ 839	21.94	0.156	20.49	0.112
n26(P22)	20	256QAM	834 ~ 839	19.77	0.095	18.32	0.068
n26(P22)	15	π/2 BPSK	831.5 ~ 841.5	23.80	0.240	22.35	0.172
n26(P22)	15	QPSK	831.5 ~ 841.5	23.92	0.247	22.47	0.177
n26(P22)	15	16QAM	831.5 ~ 841.5	22.97	0.198	21.52	0.142
n26(P22)	15	64QAM	831.5 ~ 841.5	21.90	0.155	20.45	0.111
n26(P22)	15	256QAM	831.5 ~ 841.5	19.70	0.093	18.25	0.067
n26(P22)	10	π/2 BPSK	829 ~ 844	23.69	0.234	22.24	0.167
n26(P22)	10	QPSK	829 ~ 844	24.02	0.252	22.57	0.181
n26(P22)	10	16QAM	829 ~ 844	23.06	0.202	21.61	0.145
n26(P22)	10	64QAM	829 ~ 844	21.67	0.147	20.22	0.105
n26(P22)	10	256QAM	829 ~ 844	19.55	0.090	18.10	0.065
n26(P22)	5	π/2 BPSK	826.5 ~ 846.5	23.79	0.239	22.34	0.171
n26(P22)	5	QPSK	826.5 ~ 846.5	23.86	0.243	22.41	0.174
n26(P22)	5	16QAM	826.5 ~ 846.5	23.17	0.207	21.72	0.149
n26(P22)	5	64QAM	826.5 ~ 846.5	21.83	0.152	20.38	0.109
n26(P22)	5	256QAM	826.5 ~ 846.5	19.71	0.094	18.26	0.067

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n5	20	π/2 BPSK	834 ~ 839	23.77	0.238	22.32	0.171
n5	20	QPSK	834 ~ 839	23.88	0.244	22.43	0.175
n5	20	16QAM	834 ~ 839	23.02	0.200	21.57	0.144
n5	20	64QAM	834 ~ 839	21.57	0.144	20.12	0.103
n5	20	256QAM	834 ~ 839	19.83	0.096	18.38	0.069
n5	15	π/2 BPSK	831.5 ~ 841.5	23.83	0.242	22.38	0.173
n5	15	QPSK	831.5 ~ 841.5	23.78	0.239	22.33	0.171
n5	15	16QAM	831.5 ~ 841.5	23.29	0.213	21.84	0.153
n5	15	64QAM	831.5 ~ 841.5	21.82	0.152	20.37	0.109
n5	15	256QAM	831.5 ~ 841.5	19.73	0.094	18.28	0.067
n5	10	π/2 BPSK	829 ~ 844	23.68	0.233	22.23	0.167
n5	10	QPSK	829 ~ 844	23.84	0.242	22.39	0.173
n5	10	16QAM	829 ~ 844	23.06	0.202	21.61	0.145
n5	10	64QAM	829 ~ 844	21.90	0.155	20.45	0.111
n5	10	256QAM	829 ~ 844	19.50	0.089	18.05	0.064
n5	5	π/2 BPSK	826.5 ~ 846.5	23.81	0.240	22.36	0.172
n5	5	QPSK	826.5 ~ 846.5	23.92	0.247	22.47	0.177
n5	5	16QAM	826.5 ~ 846.5	22.81	0.191	21.36	0.137
n5	5	64QAM	826.5 ~ 846.5	21.84	0.153	20.39	0.109
n5	5	256QAM	826.5 ~ 846.5	19.66	0.092	18.21	0.066

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n70	15	π/2 BPSK	1 702.5	21.93	0.156	23.53	0.225
n70	15	QPSK	1 702.5	22.10	0.162	23.70	0.234
n70	15	16QAM	1 702.5	21.22	0.132	22.82	0.191
n70	15	64QAM	1 702.5	19.67	0.093	21.27	0.134
n70	15	256QAM	1 702.5	17.94	0.062	19.54	0.090
n70	10	π/2 BPSK	1 700 ~ 1 705	21.89	0.155	23.49	0.223
n70	10	QPSK	1 700 ~ 1 705	22.02	0.159	23.62	0.230
n70	10	16QAM	1 700 ~ 1 705	21.22	0.132	22.82	0.191
n70	10	64QAM	1 700 ~ 1 705	20.00	0.100	21.60	0.145
n70	10	256QAM	1 700 ~ 1 705	17.89	0.062	19.49	0.089
n70	5	π/2 BPSK	1 697.5 ~ 1 707.5	22.01	0.159	23.61	0.230
n70	5	QPSK	1 697.5 ~ 1 707.5	22.22	0.167	23.82	0.241
n70	5	16QAM	1 697.5 ~ 1 707.5	21.45	0.140	23.05	0.202
n70	5	64QAM	1 697.5 ~ 1 707.5	20.27	0.106	21.87	0.154
n70	5	256QAM	1 697.5 ~ 1 707.5	18.23	0.067	19.83	0.096
n66	40	π/2 BPSK	1 730 ~ 1 760	22.45	0.176	25.05	0.320
n66	40	QPSK	1 730 ~ 1 760	22.44	0.175	25.04	0.319
n66	40	16QAM	1 730 ~ 1 760	21.71	0.148	24.31	0.270
n66	40	64QAM	1 730 ~ 1 760	20.55	0.114	23.15	0.207
n66	40	256QAM	1 730 ~ 1 760	18.33	0.068	20.93	0.124
n66	30	π/2 BPSK	1 725 ~ 1 765	22.47	0.177	25.07	0.321
n66	30	QPSK	1 725 ~ 1 765	22.47	0.177	25.07	0.321
n66	30	16QAM	1 725 ~ 1 765	21.78	0.151	24.38	0.274
n66	30	64QAM	1 725 ~ 1 765	20.24	0.106	22.84	0.192
n66	30	256QAM	1 725 ~ 1 765	18.45	0.070	21.05	0.127
n66	20	π/2 BPSK	1 720 ~ 1 770	22.49	0.177	25.09	0.323
n66	20	QPSK	1 720 ~ 1 770	22.55	0.180	25.15	0.327
n66	20	16QAM	1 720 ~ 1 770	21.91	0.155	24.51	0.282
n66	20	64QAM	1 720 ~ 1 770	20.30	0.107	22.90	0.195
n66	20	256QAM	1 720 ~ 1 770	18.40	0.069	21.00	0.126
n66	15	π/2 BPSK	1 717.5 ~ 1 772.5	22.42	0.175	25.02	0.318
n66	15	QPSK	1 717.5 ~ 1 772.5	22.55	0.180	25.15	0.327
n66	15	16QAM	1 717.5 ~ 1 772.5	21.82	0.152	24.42	0.277
n66	15	64QAM	1 717.5 ~ 1 772.5	20.24	0.106	22.84	0.192
n66	15	256QAM	1 717.5 ~ 1 772.5	18.45	0.070	21.05	0.127
n66	10	π/2 BPSK	1 715 ~ 1 775	22.33	0.171	24.93	0.311
n66	10	QPSK	1 715 ~ 1 775	22.36	0.172	24.96	0.313
n66	10	16QAM	1 715 ~ 1 775	21.52	0.142	24.12	0.258
n66	10	64QAM	1 715 ~ 1 775	20.26	0.106	22.86	0.193
n66	10	256QAM	1 715 ~ 1 775	18.12	0.065	20.72	0.118
n66	5	π/2 BPSK	1 712.5 ~ 1 777.5	22.21	0.166	24.81	0.303
n66	5	QPSK	1 712.5 ~ 1 777.5	22.37	0.173	24.97	0.314
n66	5	16QAM	1 712.5 ~ 1 777.5	21.63	0.146	24.23	0.265
n66	5	64QAM	1 712.5 ~ 1 777.5	20.19	0.104	22.79	0.190
n66	5	256QAM	1 712.5 ~ 1 777.5	18.23	0.067	20.83	0.121

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n2	20	π/2 BPSK	1 860 ~ 1 900	22.89	0.195	27.29	0.536
n2	20	QPSK	1 860 ~ 1 900	23.04	0.201	27.44	0.555
n2	20	16QAM	1 860 ~ 1 900	22.48	0.177	26.88	0.488
n2	20	64QAM	1 860 ~ 1 900	20.71	0.118	25.11	0.324
n2	20	256QAM	1 860 ~ 1 900	19.07	0.081	23.47	0.222
n2	15	π/2 BPSK	1 857.5 ~ 1 902.5	23.03	0.201	27.43	0.553
n2	15	QPSK	1 857.5 ~ 1 902.5	23.18	0.208	27.58	0.573
n2	15	16QAM	1 857.5 ~ 1 902.5	22.62	0.183	27.02	0.504
n2	15	64QAM	1 857.5 ~ 1 902.5	20.70	0.117	25.10	0.324
n2	15	256QAM	1 857.5 ~ 1 902.5	19.04	0.080	23.44	0.221
n2	10	π/2 BPSK	1 855 ~ 1 905	22.86	0.193	27.26	0.532
n2	10	QPSK	1 855 ~ 1 905	22.84	0.192	27.24	0.530
n2	10	16QAM	1 855 ~ 1 905	22.35	0.172	26.75	0.473
n2	10	64QAM	1 855 ~ 1 905	21.01	0.126	25.41	0.348
n2	10	256QAM	1 855 ~ 1 905	18.47	0.070	22.87	0.194
n2	5	π/2 BPSK	1 852.5 ~ 1 907.5	22.96	0.198	27.36	0.545
n2	5	QPSK	1 852.5 ~ 1 907.5	23.23	0.210	27.63	0.579
n2	5	16QAM	1 852.5 ~ 1 907.5	22.35	0.172	26.75	0.473
n2	5	64QAM	1 852.5 ~ 1 907.5	20.87	0.122	25.27	0.337
n2	5	256QAM	1 852.5 ~ 1 907.5	19.05	0.080	23.45	0.221

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n25	40	π/2 BPSK	1 870 ~ 1 895	22.12	0.163	26.52	0.449
n25	40	QPSK	1 870 ~ 1 895	22.23	0.167	26.63	0.460
n25	40	16QAM	1 870 ~ 1 895	21.40	0.138	25.80	0.380
n25	40	64QAM	1 870 ~ 1 895	19.88	0.097	24.28	0.268
n25	40	256QAM	1 870 ~ 1 895	17.98	0.063	22.38	0.173
n25	30	π/2 BPSK	1 865 ~ 1900	22.08	0.161	26.48	0.445
n25	30	QPSK	1 865 ~ 1900	22.22	0.167	26.62	0.459
n25	30	16QAM	1 865 ~ 1900	21.26	0.134	25.66	0.368
n25	30	64QAM	1 865 ~ 1900	19.91	0.098	24.31	0.270
n25	30	256QAM	1 865 ~ 1900	18.01	0.063	22.41	0.174
n25	25	π/2 BPSK	1 862.5 ~ 1902.5	22.46	0.176	26.86	0.485
n25	25	QPSK	1 862.5 ~ 1902.5	22.37	0.173	26.77	0.475
n25	25	16QAM	1 862.5 ~ 1902.5	21.53	0.142	25.93	0.392
n25	25	64QAM	1 862.5 ~ 1902.5	20.38	0.109	24.78	0.301
n25	25	256QAM	1 862.5 ~ 1902.5	18.33	0.068	22.73	0.187
n25	20	π/2 BPSK	1 860 ~ 1905	22.17	0.165	26.57	0.454
n25	20	QPSK	1 860 ~ 1905	22.18	0.165	26.58	0.455
n25	20	16QAM	1 860 ~ 1905	21.36	0.137	25.76	0.377
n25	20	64QAM	1 860 ~ 1905	19.80	0.095	24.20	0.263
n25	20	256QAM	1 860 ~ 1905	18.31	0.068	22.71	0.187
n25	15	π/2 BPSK	1 857.5 ~ 1907.5	22.17	0.165	26.57	0.454
n25	15	QPSK	1 857.5 ~ 1907.5	22.26	0.168	26.66	0.463
n25	15	16QAM	1 857.5 ~ 1907.5	21.27	0.134	25.67	0.369
n25	15	64QAM	1 857.5 ~ 1907.5	20.17	0.104	24.57	0.286
n25	15	256QAM	1 857.5 ~ 1907.5	18.45	0.070	22.85	0.193
n25	10	π/2 BPSK	1 855 ~ 1 910	21.97	0.157	26.37	0.434
n25	10	QPSK	1 855 ~ 1 910	21.94	0.156	26.34	0.431
n25	10	16QAM	1 855 ~ 1 910	21.35	0.136	25.75	0.376
n25	10	64QAM	1 855 ~ 1 910	20.23	0.105	24.63	0.290
n25	10	256QAM	1 855 ~ 1 910	17.60	0.058	22.00	0.158
n25	5	π/2 BPSK	1 852.5 ~ 1912.5	21.91	0.155	26.31	0.428
n25	5	QPSK	1 852.5 ~ 1912.5	22.16	0.164	26.56	0.453
n25	5	16QAM	1 852.5 ~ 1912.5	21.34	0.136	25.74	0.375
n25	5	64QAM	1 852.5 ~ 1912.5	19.79	0.095	24.19	0.262
n25	5	256QAM	1 852.5 ~ 1912.5	17.95	0.062	22.35	0.172

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n30	10	π/2 BPSK	2 310	16.36	0.043	18.76	0.075
n30	10	QPSK	2 310	16.13	0.041	18.53	0.071
n30	10	16QAM	2 310	15.73	0.037	18.13	0.065
n30	10	64QAM	2 310	14.40	0.028	16.80	0.048
n30	10	256QAM	2 310	12.30	0.017	14.70	0.030
n30	5	π/2 BPSK	2 307.5 ~ 2312.5	16.29	0.043	18.69	0.074
n30	5	QPSK	2 307.5 ~ 2312.5	16.28	0.042	18.68	0.074
n30	5	16QAM	2 307.5 ~ 2312.5	16.12	0.041	18.52	0.071
n30	5	64QAM	2 307.5 ~ 2312.5	14.69	0.029	17.09	0.051
n30	5	256QAM	2 307.5 ~ 2312.5	12.54	0.018	14.94	0.031
n7	40	π/2 BPSK	2 520 ~ 2 550	23.14	0.206	26.84	0.483
n7	40	QPSK	2 520 ~ 2 550	23.21	0.209	26.91	0.491
n7	40	16QAM	2 520 ~ 2 550	22.45	0.176	26.15	0.412
n7	40	64QAM	2 520 ~ 2 550	20.95	0.124	24.65	0.292
n7	40	256QAM	2 520 ~ 2 550	19.15	0.082	22.85	0.193
n7	30	π/2 BPSK	2 515 ~ 2 555	23.35	0.216	27.05	0.507
n7	30	QPSK	2 515 ~ 2 555	23.26	0.212	26.96	0.497
n7	30	16QAM	2 515 ~ 2 555	22.45	0.176	26.15	0.412
n7	30	64QAM	2 515 ~ 2 555	20.96	0.125	24.66	0.292
n7	30	256QAM	2 515 ~ 2 555	18.97	0.079	22.67	0.185
n7	25	π/2 BPSK	2 512.5 ~ 2 557.5	23.43	0.220	27.13	0.516
n7	25	QPSK	2 512.5 ~ 2 557.5	23.41	0.219	27.11	0.514
n7	25	16QAM	2 512.5 ~ 2 557.5	22.70	0.186	26.40	0.437
n7	25	64QAM	2 512.5 ~ 2 557.5	21.38	0.137	25.08	0.322
n7	25	256QAM	2 512.5 ~ 2 557.5	19.21	0.083	22.91	0.195
n7	20	π/2 BPSK	2 510 ~ 2 560	23.21	0.209	26.91	0.491
n7	20	QPSK	2 510 ~ 2 560	23.30	0.214	27.00	0.501
n7	20	16QAM	2 510 ~ 2 560	22.50	0.178	26.20	0.417
n7	20	64QAM	2 510 ~ 2 560	20.99	0.126	24.69	0.294
n7	20	256QAM	2 510 ~ 2 560	19.31	0.085	23.01	0.200
n7	15	π/2 BPSK	2 507.5 ~ 2 562.5	23.37	0.217	27.07	0.509
n7	15	QPSK	2 507.5 ~ 2 562.5	23.13	0.206	26.83	0.482
n7	15	16QAM	2 507.5 ~ 2 562.5	22.50	0.178	26.20	0.417
n7	15	64QAM	2 507.5 ~ 2 562.5	21.13	0.130	24.83	0.304
n7	15	256QAM	2 507.5 ~ 2 562.5	19.00	0.079	22.70	0.186
n7	10	π/2 BPSK	2 505 ~ 2 565	23.07	0.203	26.77	0.475
n7	10	QPSK	2 505 ~ 2 565	23.02	0.200	26.72	0.470
n7	10	16QAM	2 505 ~ 2 565	22.34	0.171	26.04	0.402
n7	10	64QAM	2 505 ~ 2 565	20.78	0.120	24.48	0.281
n7	10	256QAM	2 505 ~ 2 565	18.91	0.078	22.61	0.182
n7	5	π/2 BPSK	2 502.5 ~ 2 567.5	23.08	0.203	26.78	0.476
n7	5	QPSK	2 502.5 ~ 2 567.5	23.11	0.205	26.81	0.480
n7	5	16QAM	2 502.5 ~ 2 567.5	22.49	0.177	26.19	0.416
n7	5	64QAM	2 502.5 ~ 2 567.5	21.35	0.136	25.05	0.320
n7	5	256QAM	2 502.5 ~ 2 567.5	19.23	0.084	22.93	0.196

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n41	100	π/2 BPSK	2 546.01 ~ 2 640.00	24.77	0.300	28.47	0.703
n41	100	QPSK	2 546.01 ~ 2 640.00	24.63	0.290	28.33	0.681
n41	100	16QAM	2 546.01 ~ 2 640.00	23.70	0.234	27.40	0.550
n41	100	64QAM	2 546.01 ~ 2 640.00	22.30	0.170	26.00	0.398
n41	100	256QAM	2 546.01 ~ 2 640.00	20.36	0.109	24.06	0.255
n41	90	π/2 BPSK	2 541.00 ~ 2 644.98	24.60	0.288	28.30	0.676
n41	90	QPSK	2 541.00 ~ 2 644.98	24.62	0.290	28.32	0.679
n41	90	16QAM	2 541.00 ~ 2 644.98	23.79	0.239	27.49	0.561
n41	90	64QAM	2 541.00 ~ 2 644.98	22.27	0.169	25.97	0.395
n41	90	256QAM	2 541.00 ~ 2 644.98	20.34	0.108	24.04	0.254
n41	80	π/2 BPSK	2 536.02 ~ 2 649.99	24.60	0.288	28.30	0.676
n41	80	QPSK	2 536.02 ~ 2 649.99	24.65	0.292	28.35	0.684
n41	80	16QAM	2 536.02 ~ 2 649.99	23.71	0.235	27.41	0.551
n41	80	64QAM	2 536.02 ~ 2 649.99	22.27	0.169	25.97	0.395
n41	80	256QAM	2 536.02 ~ 2 649.99	20.30	0.107	24.00	0.251
n41	70	π/2 BPSK	2 531.01 ~ 2 655.00	24.65	0.292	28.35	0.684
n41	70	QPSK	2 531.01 ~ 2 655.00	24.57	0.286	28.27	0.671
n41	70	16QAM	2 531.01 ~ 2 655.00	23.68	0.233	27.38	0.547
n41	70	64QAM	2 531.01 ~ 2 655.00	22.26	0.168	25.96	0.394
n41	70	256QAM	2 531.01 ~ 2 655.00	20.31	0.107	24.01	0.252
n41	60	π/2 BPSK	2 526.00 ~ 2 659.98	24.63	0.290	28.33	0.681
n41	60	QPSK	2 526.00 ~ 2 659.98	24.62	0.290	28.32	0.679
n41	60	16QAM	2 526.00 ~ 2 659.98	23.76	0.238	27.46	0.557
n41	60	64QAM	2 526.00 ~ 2 659.98	22.27	0.169	25.97	0.395
n41	60	256QAM	2 526.00 ~ 2 659.98	20.40	0.110	24.10	0.257
n41	50	π/2 BPSK	2 521.02 ~ 2 664.99	24.61	0.289	28.31	0.678
n41	50	QPSK	2 521.02 ~ 2 664.99	24.56	0.286	28.26	0.670
n41	50	16QAM	2 521.02 ~ 2 664.99	23.77	0.238	27.47	0.558
n41	50	64QAM	2 521.02 ~ 2 664.99	22.27	0.169	25.97	0.395
n41	50	256QAM	2 521.02 ~ 2 664.99	20.39	0.109	24.09	0.256
n41	40	π/2 BPSK	2 516.01 ~ 2 670.00	24.62	0.290	28.32	0.679
n41	40	QPSK	2 516.01 ~ 2 670.00	24.63	0.290	28.33	0.681
n41	40	16QAM	2 516.01 ~ 2 670.00	23.74	0.237	27.44	0.555
n41	40	64QAM	2 516.01 ~ 2 670.00	22.28	0.169	25.98	0.396
n41	40	256QAM	2 516.01 ~ 2 670.00	20.30	0.107	24.00	0.251
n41	30	π/2 BPSK	2 511.00 ~ 2 674.98	24.61	0.289	28.31	0.678
n41	30	QPSK	2 511.00 ~ 2 674.98	24.64	0.291	28.34	0.682
n41	30	16QAM	2 511.00 ~ 2 674.98	23.77	0.238	27.47	0.558
n41	30	64QAM	2 511.00 ~ 2 674.98	22.27	0.169	25.97	0.395
n41	30	256QAM	2 511.00 ~ 2 674.98	20.40	0.110	24.10	0.257
n41	20	π/2 BPSK	2 506.02 ~2 679.99	24.64	0.291	28.34	0.682
n41	20	QPSK	2 506.02 ~2 679.99	24.61	0.289	28.31	0.678
n41	20	16QAM	2 506.02 ~2 679.99	23.73	0.236	27.43	0.553
n41	20	64QAM	2 506.02 ~2 679.99	22.26	0.168	25.96	0.394
n41	20	256QAM	2 506.02 ~2 679.99	20.40	0.110	24.10	0.257

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n38	40	π/2 BPSK	2 590 ~ 2 600	25.13	0.326	28.23	0.665
n38	40	QPSK	2 590 ~ 2 600	25.00	0.316	28.10	0.646
n38	40	16QAM	2 590 ~ 2 600	24.40	0.275	27.50	0.562
n38	40	64QAM	2 590 ~ 2 600	22.89	0.195	25.99	0.397
n38	40	256QAM	2 590 ~ 2 600	21.51	0.142	24.61	0.289
n38	30	π/2 BPSK	2 585 ~ 2 605	25.10	0.324	28.20	0.661
n38	30	QPSK	2 585 ~ 2 605	24.98	0.315	28.08	0.643
n38	30	16QAM	2 585 ~ 2 605	24.39	0.275	27.49	0.561
n38	30	64QAM	2 585 ~ 2 605	22.90	0.195	26.00	0.398
n38	30	256QAM	2 585 ~ 2 605	21.58	0.144	24.68	0.294
n38	20	π/2 BPSK	2 580 ~ 2 610	25.10	0.324	28.20	0.661
n38	20	QPSK	2 580 ~ 2 610	25.00	0.316	28.10	0.646
n38	20	16QAM	2 580 ~ 2 610	24.40	0.275	27.50	0.562
n38	20	64QAM	2 580 ~ 2 610	22.90	0.195	26.00	0.398
n38	20	256QAM	2 580 ~ 2 610	21.57	0.144	24.67	0.293
n38	15	π/2 BPSK	2 577.5 ~ 2 612.5	25.10	0.324	28.20	0.661
n38	15	QPSK	2 577.5 ~ 2 612.5	25.00	0.316	28.10	0.646
n38	15	16QAM	2 577.5 ~ 2 612.5	24.37	0.274	27.47	0.558
n38	15	64QAM	2 577.5 ~ 2 612.5	22.90	0.195	26.00	0.398
n38	15	256QAM	2 577.5 ~ 2 612.5	21.52	0.142	24.62	0.290
n38	10	π/2 BPSK	2 575 ~ 2 615	25.10	0.324	28.20	0.661
n38	10	QPSK	2 575 ~ 2 615	24.99	0.316	28.09	0.644
n38	10	16QAM	2 575 ~ 2 615	24.40	0.275	27.50	0.562
n38	10	64QAM	2 575 ~ 2 615	22.86	0.193	25.96	0.394
n38	10	256QAM	2 575 ~ 2 615	21.56	0.143	24.66	0.292

3 450 ~ 3 550 MHz band

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	100	π/2 BPSK	3 500.01	22.78	0.190	25.98	0.396
n78	100	QPSK	3 500.01	22.89	0.195	26.09	0.406
n78	100	16QAM	3 500.01	21.95	0.157	25.15	0.327
n78	100	64QAM	3 500.01	20.23	0.105	23.43	0.220
n78	100	256QAM	3 500.01	18.32	0.068	21.52	0.142
n78	90	π/2 BPSK	3 495.00 ~ 3 504.99	22.87	0.194	26.07	0.405
n78	90	QPSK	3 495.00 ~ 3 504.99	23.02	0.200	26.22	0.419
n78	90	16QAM	3 495.00 ~ 3 504.99	22.11	0.163	25.31	0.340
n78	90	64QAM	3 495.00 ~ 3 504.99	20.50	0.112	23.70	0.234
n78	90	256QAM	3 495.00 ~ 3 504.99	18.50	0.071	21.70	0.148
n78	80	π/2 BPSK	3 490.02 ~ 3 510.00	23.38	0.218	26.58	0.455
n78	80	QPSK	3 490.02 ~ 3 510.00	23.16	0.207	26.36	0.433
n78	80	16QAM	3 490.02 ~ 3 510.00	22.22	0.167	25.42	0.348
n78	80	64QAM	3 490.02 ~ 3 510.00	20.58	0.114	23.78	0.239
n78	80	256QAM	3 490.02 ~ 3 510.00	19.12	0.082	22.32	0.171
n78	70	π/2 BPSK	3 485.01 ~ 3 515.01	23.44	0.221	26.64	0.461
n78	70	QPSK	3 485.01 ~ 3 515.01	23.41	0.219	26.61	0.458
n78	70	16QAM	3 485.01 ~ 3 515.01	22.32	0.171	25.52	0.356
n78	70	64QAM	3 485.01 ~ 3 515.01	20.81	0.121	24.01	0.252
n78	70	256QAM	3 485.01 ~ 3 515.01	19.53	0.090	22.73	0.187
n78	60	π/2 BPSK	3 480.00 ~ 3 519.99	23.64	0.231	26.84	0.483
n78	60	QPSK	3 480.00 ~ 3 519.99	23.55	0.226	26.75	0.473
n78	60	16QAM	3 480.00 ~ 3 519.99	22.71	0.187	25.91	0.390
n78	60	64QAM	3 480.00 ~ 3 519.99	21.20	0.132	24.40	0.275
n78	60	256QAM	3 480.00 ~ 3 519.99	19.42	0.087	22.62	0.183
n78	50	π/2 BPSK	3 475.02 ~ 3 525.00	23.72	0.236	26.92	0.492
n78	50	QPSK	3 475.02 ~ 3 525.00	23.53	0.225	26.73	0.471
n78	50	16QAM	3 475.02 ~ 3 525.00	22.66	0.185	25.86	0.385
n78	50	64QAM	3 475.02 ~ 3 525.00	21.20	0.132	24.40	0.275
n78	50	256QAM	3 475.02 ~ 3 525.00	19.49	0.089	22.69	0.186
n78	40	π/2 BPSK	3 470.01 ~ 3 530.01	23.94	0.248	27.14	0.518
n78	40	QPSK	3 470.01 ~ 3 530.01	23.90	0.245	27.10	0.513
n78	40	16QAM	3 470.01 ~ 3 530.01	22.97	0.198	26.17	0.414
n78	40	64QAM	3 470.01 ~ 3 530.01	21.29	0.135	24.49	0.281
n78	40	256QAM	3 470.01 ~ 3 530.01	19.86	0.097	23.06	0.202
n78	30	π/2 BPSK	3 465.00 ~ 3 534.99	23.95	0.248	27.15	0.519
n78	30	QPSK	3 465.00 ~ 3 534.99	23.82	0.241	27.02	0.504
n78	30	16QAM	3 465.00 ~ 3 534.99	22.81	0.191	26.01	0.399
n78	30	64QAM	3 465.00 ~ 3 534.99	21.34	0.136	24.54	0.284
n78	30	256QAM	3 465.00 ~ 3 534.99	19.64	0.092	22.84	0.192
n78	20	π/2 BPSK	3 460.02 ~ 3 540.00	23.83	0.242	27.03	0.505
n78	20	QPSK	3 460.02 ~ 3 540.00	23.82	0.241	27.02	0.504
n78	20	16QAM	3 460.02 ~ 3 540.00	22.88	0.194	26.08	0.406
n78	20	64QAM	3 460.02 ~ 3 540.00	21.39	0.138	24.59	0.288
n78	20	256QAM	3 460.02 ~ 3 540.00	19.62	0.092	22.82	0.191

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	15	π/2 BPSK	3 457.5 ~ 3 542.49	23.87	0.244	27.07	0.509
n78	15	QPSK	3 457.5 ~ 3 542.49	23.93	0.247	27.13	0.516
n78	15	16QAM	3 457.5 ~ 3 542.49	23.19	0.208	26.39	0.436
n78	15	64QAM	3 457.5 ~ 3 542.49	21.43	0.139	24.63	0.290
n78	15	256QAM	3 457.5 ~ 3 542.49	19.35	0.086	22.55	0.180
n78	10	π/2 BPSK	3 455.01 ~ 3 545.01	23.59	0.229	26.79	0.478
n78	10	QPSK	3 455.01 ~ 3 545.01	23.65	0.232	26.85	0.484
n78	10	16QAM	3 455.01 ~ 3 545.01	22.70	0.186	25.90	0.389
n78	10	64QAM	3 455.01 ~ 3 545.01	21.21	0.132	24.41	0.276
n78	10	256QAM	3 455.01 ~ 3 545.01	19.58	0.091	22.78	0.190

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	100	π/2 BPSK	3 500.01	23.47	0.222	26.67	0.465
n77	100	QPSK	3 500.01	23.52	0.225	26.72	0.470
n77	100	16QAM	3 500.01	22.36	0.172	25.56	0.360
n77	100	64QAM	3 500.01	20.90	0.123	24.10	0.257
n77	100	256QAM	3 500.01	19.13	0.082	22.33	0.171
n77	90	π/2 BPSK	3 495.00 ~ 3 504.99	23.63	0.231	26.83	0.482
n77	90	QPSK	3 495.00 ~ 3 504.99	23.45	0.221	26.65	0.462
n77	90	16QAM	3 495.00 ~ 3 504.99	22.59	0.182	25.79	0.379
n77	90	64QAM	3 495.00 ~ 3 504.99	21.18	0.131	24.38	0.274
n77	90	256QAM	3 495.00 ~ 3 504.99	19.38	0.087	22.58	0.181
n77	80	π/2 BPSK	3 490.02 ~ 3 510.00	23.65	0.232	26.85	0.484
n77	80	QPSK	3 490.02 ~ 3 510.00	23.69	0.234	26.89	0.489
n77	80	16QAM	3 490.02 ~ 3 510.00	22.70	0.186	25.90	0.389
n77	80	64QAM	3 490.02 ~ 3 510.00	21.23	0.133	24.43	0.277
n77	80	256QAM	3 490.02 ~ 3 510.00	19.38	0.087	22.58	0.181
n77	70	π/2 BPSK	3 485.01 ~ 3 515.01	23.55	0.226	26.75	0.473
n77	70	QPSK	3 485.01 ~ 3 515.01	23.68	0.233	26.88	0.488
n77	70	16QAM	3 485.01 ~ 3 515.01	22.73	0.187	25.93	0.392
n77	70	64QAM	3 485.01 ~ 3 515.01	21.11	0.129	24.31	0.270
n77	70	256QAM	3 485.01 ~ 3 515.01	19.25	0.084	22.45	0.176
n77	60	π/2 BPSK	3 480.00 ~ 3 519.99	23.80	0.240	27.00	0.501
n77	60	QPSK	3 480.00 ~ 3 519.99	23.76	0.238	26.96	0.497
n77	60	16QAM	3 480.00 ~ 3 519.99	22.94	0.197	26.14	0.411
n77	60	64QAM	3 480.00 ~ 3 519.99	21.19	0.132	24.39	0.275
n77	60	256QAM	3 480.00 ~ 3 519.99	19.53	0.090	22.73	0.187
n77	50	π/2 BPSK	3 475.02 ~ 3 525.00	23.73	0.236	26.93	0.493
n77	50	QPSK	3 475.02 ~ 3 525.00	23.88	0.244	27.08	0.511
n77	50	16QAM	3 475.02 ~ 3 525.00	22.85	0.193	26.05	0.403
n77	50	64QAM	3 475.02 ~ 3 525.00	21.24	0.133	24.44	0.278
n77	50	256QAM	3 475.02 ~ 3 525.00	19.58	0.091	22.78	0.190
n77	40	π/2 BPSK	3 470.01 ~ 3 529.98	23.88	0.244	27.08	0.511
n77	40	QPSK	3 470.01 ~ 3 529.98	24.10	0.257	27.30	0.537
n77	40	16QAM	3 470.01 ~ 3 529.98	23.20	0.209	26.40	0.437
n77	40	64QAM	3 470.01 ~ 3 529.98	21.72	0.149	24.92	0.310
n77	40	256QAM	3 470.01 ~ 3 529.98	19.84	0.096	23.04	0.201
n77	30	π/2 BPSK	3 465.00 ~ 3 534.99	24.07	0.255	27.27	0.533
n77	30	QPSK	3 465.00 ~ 3 534.99	23.89	0.245	27.09	0.512
n77	30	16QAM	3 465.00 ~ 3 534.99	23.12	0.205	26.32	0.429
n77	30	64QAM	3 465.00 ~ 3 534.99	21.59	0.144	24.79	0.301
n77	30	256QAM	3 465.00 ~ 3 534.99	19.82	0.096	23.02	0.200
n77	20	π/2 BPSK	3 460.01 ~ 3 540.00	23.82	0.241	27.02	0.504
n77	20	QPSK	3 460.01 ~ 3 540.00	23.80	0.240	27.00	0.501
n77	20	16QAM	3 460.01 ~ 3 540.00	23.14	0.206	26.34	0.431
n77	20	64QAM	3 460.01 ~ 3 540.00	21.43	0.139	24.63	0.290
n77	20	256QAM	3 460.01 ~ 3 540.00	19.97	0.099	23.17	0.207

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	15	π/2 BPSK	3 457.50 ~ 3 542.49	23.78	0.239	26.98	0.499
n77	15	QPSK	3 457.50 ~ 3 542.49	23.89	0.245	27.09	0.512
n77	15	16QAM	3 457.50 ~ 3 542.49	23.04	0.201	26.24	0.421
n77	15	64QAM	3 457.50 ~ 3 542.49	21.46	0.140	24.66	0.292
n77	15	256QAM	3 457.50 ~ 3 542.49	19.49	0.089	22.69	0.186
n77	10	π/2 BPSK	3 455.01 ~ 3 545.01	23.76	0.238	26.96	0.497
n77	10	QPSK	3 455.01 ~ 3 545.01	23.96	0.249	27.16	0.520
n77	10	16QAM	3 455.01 ~ 3 545.01	22.99	0.199	26.19	0.416
n77	10	64QAM	3 455.01 ~ 3 545.01	21.58	0.144	24.78	0.301
n77	10	256QAM	3 455.01 ~ 3 545.01	19.42	0.087	22.62	0.183

3 700 ~ 3 800 MHz band

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	100	π/2 BPSK	3 750.00	23.68	0.233	27.58	0.573
n78	100	QPSK	3 750.00	23.68	0.233	27.58	0.573
n78	100	16QAM	3 750.00	22.63	0.183	26.53	0.450
n78	100	64QAM	3 750.00	21.24	0.133	25.14	0.327
n78	100	256QAM	3 750.00	19.26	0.084	23.16	0.207
n78	90	π/2 BPSK	3 745.02 ~ 3 754.98	23.76	0.238	27.66	0.583
n78	90	QPSK	3 745.02 ~ 3 754.98	23.69	0.234	27.59	0.574
n78	90	16QAM	3 745.02 ~ 3 754.98	22.90	0.195	26.80	0.479
n78	90	64QAM	3 745.02 ~ 3 754.98	21.45	0.140	25.35	0.343
n78	90	256QAM	3 745.02 ~ 3 754.98	19.24	0.084	23.14	0.206
n78	80	π/2 BPSK	3 740.01 ~ 3 759.99	23.75	0.237	27.65	0.582
n78	80	QPSK	3 740.01 ~ 3 759.99	23.57	0.228	27.47	0.558
n78	80	16QAM	3 740.01 ~ 3 759.99	22.80	0.191	26.70	0.468
n78	80	64QAM	3 740.01 ~ 3 759.99	21.30	0.135	25.20	0.331
n78	80	256QAM	3 740.01 ~ 3 759.99	19.40	0.087	23.30	0.214
n78	70	π/2 BPSK	3 735.00 ~ 3 765.00	23.63	0.231	27.53	0.566
n78	70	QPSK	3 735.00 ~ 3 765.00	23.79	0.239	27.69	0.587
n78	70	16QAM	3 735.00 ~ 3 765.00	22.81	0.191	26.71	0.469
n78	70	64QAM	3 735.00 ~ 3 765.00	21.23	0.133	25.13	0.326
n78	70	256QAM	3 735.00 ~ 3 765.00	19.53	0.090	23.43	0.220
n78	60	π/2 BPSK	3 730.02 ~ 3 769.98	23.86	0.243	27.76	0.597
n78	60	QPSK	3 730.02 ~ 3 769.98	23.78	0.239	27.68	0.586
n78	60	16QAM	3 730.02 ~ 3 769.98	22.98	0.199	26.88	0.488
n78	60	64QAM	3 730.02 ~ 3 769.98	21.55	0.143	25.45	0.351
n78	60	256QAM	3 730.02 ~ 3 769.98	19.38	0.087	23.28	0.213
n78	50	π/2 BPSK	3 725.01 ~ 3 774.99	23.81	0.240	27.71	0.590
n78	50	QPSK	3 725.01 ~ 3 774.99	23.74	0.237	27.64	0.581
n78	50	16QAM	3 725.01 ~ 3 774.99	23.01	0.200	26.91	0.491
n78	50	64QAM	3 725.01 ~ 3 774.99	21.45	0.140	25.35	0.343
n78	50	256QAM	3 725.01 ~ 3 774.99	19.52	0.090	23.42	0.220
n78	40	π/2 BPSK	3 720.00 ~ 3 780.00	24.09	0.256	27.99	0.630
n78	40	QPSK	3 720.00 ~ 3 780.00	24.23	0.265	28.13	0.650
n78	40	16QAM	3 720.00 ~ 3 780.00	23.09	0.204	26.99	0.500
n78	40	64QAM	3 720.00 ~ 3 780.00	21.93	0.156	25.83	0.383
n78	40	256QAM	3 720.00 ~ 3 780.00	19.80	0.095	23.70	0.234
n78	30	π/2 BPSK	3 715.02 ~ 3 785.01	23.98	0.250	27.88	0.614
n78	30	QPSK	3 715.02 ~ 3 785.01	24.11	0.258	28.01	0.632
n78	30	16QAM	3 715.02 ~ 3 785.01	23.23	0.210	27.13	0.516
n78	30	64QAM	3 715.02 ~ 3 785.01	21.70	0.148	25.60	0.363
n78	30	256QAM	3 715.02 ~ 3 785.01	19.83	0.096	23.73	0.236
n78	20	π/2 BPSK	3 710.01 ~ 3 789.99	23.95	0.248	27.85	0.610
n78	20	QPSK	3 710.01 ~ 3 789.99	24.13	0.259	28.03	0.635
n78	20	16QAM	3 710.01 ~ 3 789.99	23.05	0.202	26.95	0.495
n78	20	64QAM	3 710.01 ~ 3 789.99	21.59	0.144	25.49	0.354
n78	20	256QAM	3 710.01 ~ 3 789.99	19.87	0.097	23.77	0.238

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	15	π/2 BPSK	3 707.52 ~ 3 792.48	24.26	0.267	28.16	0.655
n78	15	QPSK	3 707.52 ~ 3 792.48	24.19	0.262	28.09	0.644
n78	15	16QAM	3 707.52 ~ 3 792.48	23.13	0.206	27.03	0.505
n78	15	64QAM	3 707.52 ~ 3 792.48	21.59	0.144	25.49	0.354
n78	15	256QAM	3 707.52 ~ 3 792.48	19.97	0.099	23.87	0.244
n78	10	π/2 BPSK	3 705.00 ~ 3 795.00	23.98	0.250	27.88	0.614
n78	10	QPSK	3 705.00 ~ 3 795.00	24.06	0.255	27.96	0.625
n78	10	16QAM	3 705.00 ~ 3 795.00	22.93	0.196	26.83	0.482
n78	10	64QAM	3 705.00 ~ 3 795.00	21.58	0.144	25.48	0.353
n78	10	256QAM	3 705.00 ~ 3 795.00	19.65	0.092	23.55	0.226

3 700 ~ 3 980 MHz band

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	100	π/2 BPSK	3 750.00 ~ 3 930.00	23.67	0.233	27.57	0.571
n77	100	QPSK	3 750.00 ~ 3 930.00	23.70	0.234	27.60	0.575
n77	100	16QAM	3 750.00 ~ 3 930.00	22.90	0.195	26.80	0.479
n77	100	64QAM	3 750.00 ~ 3 930.00	21.35	0.136	25.25	0.335
n77	100	256QAM	3 750.00 ~ 3 930.00	19.34	0.086	23.24	0.211
n77	90	π/2 BPSK	3 745.02 ~ 3 934.98	23.79	0.239	27.69	0.587
n77	90	QPSK	3 745.02 ~ 3 934.98	23.62	0.230	27.52	0.565
n77	90	16QAM	3 745.02 ~ 3 934.98	22.69	0.186	26.59	0.456
n77	90	64QAM	3 745.02 ~ 3 934.98	21.29	0.135	25.19	0.330
n77	90	256QAM	3 745.02 ~ 3 934.98	19.25	0.084	23.15	0.207
n77	80	π/2 BPSK	3 740.01 ~ 3 939.99	23.67	0.233	27.57	0.571
n77	80	QPSK	3 740.01 ~ 3 939.99	23.68	0.233	27.58	0.573
n77	80	16QAM	3 740.01 ~ 3 939.99	22.78	0.190	26.68	0.466
n77	80	64QAM	3 740.01 ~ 3 939.99	21.24	0.133	25.14	0.327
n77	80	256QAM	3 740.01 ~ 3 939.99	19.24	0.084	23.14	0.206
n77	70	π/2 BPSK	3 735.00 ~ 3 945.00	23.78	0.239	27.68	0.586
n77	70	QPSK	3 735.00 ~ 3 945.00	23.74	0.237	27.64	0.581
n77	70	16QAM	3 735.00 ~ 3 945.00	22.89	0.195	26.79	0.478
n77	70	64QAM	3 735.00 ~ 3 945.00	21.35	0.136	25.25	0.335
n77	70	256QAM	3 735.00 ~ 3 945.00	19.29	0.085	23.19	0.208
n77	60	π/2 BPSK	3 730.02 ~ 3 949.98	23.75	0.237	27.65	0.582
n77	60	QPSK	3 730.02 ~ 3 949.98	23.78	0.239	27.68	0.586
n77	60	16QAM	3 730.02 ~ 3 949.98	22.84	0.192	26.74	0.472
n77	60	64QAM	3 730.02 ~ 3 949.98	21.53	0.142	25.43	0.349
n77	60	256QAM	3 730.02 ~ 3 949.98	19.53	0.090	23.43	0.220
n77	50	π/2 BPSK	3 725.01 ~ 3 954.99	23.99	0.251	27.89	0.615
n77	50	QPSK	3 725.01 ~ 3 954.99	24.04	0.254	27.94	0.622
n77	50	16QAM	3 725.01 ~ 3 954.99	22.94	0.197	26.84	0.483
n77	50	64QAM	3 725.01 ~ 3 954.99	21.40	0.138	25.30	0.339
n77	50	256QAM	3 725.01 ~ 3 954.99	19.33	0.086	23.23	0.210
n77	40	π/2 BPSK	3 720.00 ~ 3 960.00	24.14	0.259	28.04	0.637
n77	40	QPSK	3 720.00 ~ 3 960.00	24.10	0.257	28.00	0.631
n77	40	16QAM	3 720.00 ~ 3 960.00	23.05	0.202	26.95	0.495
n77	40	64QAM	3 720.00 ~ 3 960.00	21.52	0.142	25.42	0.348
n77	40	256QAM	3 720.00 ~ 3 960.00	19.63	0.092	23.53	0.225
n77	30	π/2 BPSK	3 715.02 ~ 3 964.98	24.10	0.257	28.00	0.631
n77	30	QPSK	3 715.02 ~ 3 964.98	24.18	0.262	28.08	0.643
n77	30	16QAM	3 715.02 ~ 3 964.98	23.11	0.205	27.01	0.502
n77	30	64QAM	3 715.02 ~ 3 964.98	21.60	0.145	25.50	0.355
n77	30	256QAM	3 715.02 ~ 3 964.98	19.74	0.094	23.64	0.231

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	20	π/2 BPSK	3 710.01 ~ 3 969.99	23.88	0.244	27.78	0.600
n77	20	QPSK	3 710.01 ~ 3 969.99	24.13	0.259	28.03	0.635
n77	20	16QAM	3 710.01 ~ 3 969.99	23.00	0.200	26.90	0.490
n77	20	64QAM	3 710.01 ~ 3 969.99	21.62	0.145	25.52	0.356
n77	20	256QAM	3 710.01 ~ 3 969.99	19.78	0.095	23.68	0.233
n77	15	π/2 BPSK	3 707.52 ~ 3 972.48	24.12	0.258	28.02	0.634
n77	15	QPSK	3 707.52 ~ 3 972.48	24.19	0.262	28.09	0.644
n77	15	16QAM	3 707.52 ~ 3 972.48	23.12	0.205	27.02	0.504
n77	15	64QAM	3 707.52 ~ 3 972.48	21.65	0.146	25.55	0.359
n77	15	256QAM	3 707.52 ~ 3 972.48	19.99	0.100	23.89	0.245
n77	10	π/2 BPSK	3 705.00 ~ 3 975.00	23.87	0.244	27.77	0.598
n77	10	QPSK	3 705.00 ~ 3 975.00	24.05	0.254	27.95	0.624
n77	10	16QAM	3 705.00 ~ 3 975.00	23.23	0.210	27.13	0.516
n77	10	64QAM	3 705.00 ~ 3 975.00	21.46	0.140	25.36	0.344
n77	10	256QAM	3 705.00 ~ 3 975.00	19.54	0.090	23.44	0.221

2. INTRODUCTION

2.1. EUT DESCRIPTION

This device supports the following capabilities:

Bluetooth LE, WCDMA, LTE/LTE up-link carrier aggregation, 5G NR(FR1)/5G NR up-link carrier aggregation and ENDC
5G NR supports SCS 15 kHz for FDD Band and SCS 30 kHz for TDD Band.

2.2. TESTING ENVIRONMENT

Ambient Condition	
▪ Temperature	+21 ℃ ~ +22 ℃
▪ Relative Humidity	38 % ~ 40 %

2.3. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.4. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014. All measurement uncertainty values are shown with a coverage factor of *k* = 2 to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Radiated Disturbance (Below 1 GHz)	5.0 dB (The confidence level is about 95 %, k = 2)
Radiated Disturbance (1 GHz ~ 18 GHz)	4.8 dB (The confidence level is about 95 %, k = 2)
Radiated Disturbance (Above 18 GHz)	5.0 dB (The confidence level is about 95 %, k = 2)

2.5. TEST FACILITY

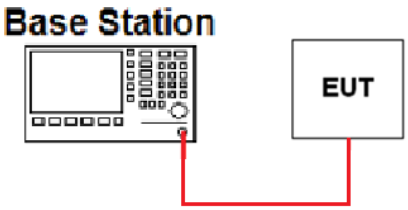
Dt&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The test site complies with the requirements of Part 2.948 according to ANSI C63.4-2014. **- FCC & IC MRA Designation No. : KR0034** **- ISED#: 5740A**		
www.dtnc.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

3. DESCRIPTION OF TESTS

3.1. MAXIMUM OUTPUT POWER

- Conducted Output Power

Test Set-up(Case 1)



Test Procedure

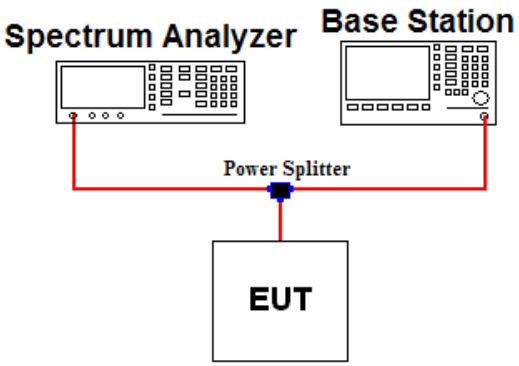
- **KDB971168 D01v03 - Section 5.2**
- **ANSI C63.26-2015 – Section 5.2.4.2**

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.
If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:

a) A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.

b) A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to ±2%) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to [10 log (1/duty cycle)].

Test Set-up(Case 2)



Note: The following procedure was used for Band 30.

Test Procedure

- **KDB971168 D01v03 - Section 5.4**
- **ANSI C63.26-2015 – Section 5.2.4.5, 5.2.4.4.1**

Test setting

1. Set span to 2 x to 3 x the OBW.
2. **Set RBW = 5 MHz**
3. Set VBW ≥ 3 x RBW.
4. Set number of points in sweep ≥ 2 × span / RBW.
5. Sweep time:
   1) Set = auto-couple, or
   2) Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
6. Detector = power averaging (rms).
7. Set sweep trigger to “free run”
8. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
9. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
10. By using the marker function to identify the maximum PSD instead of summing the power across the OBW.

- ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Procedure

- **KDB971168 D01v03 - Section 5.6**
- **ANSI C63.26-2015 – Section 5.2.5.5**

Determining ERP and EIRP from conducted RF output power measurement results

ERP or EIRP = $P_{Meas} + G_T - L_C$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

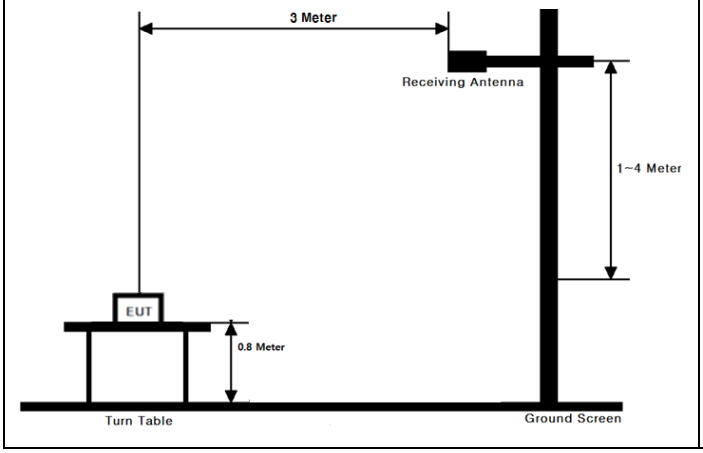
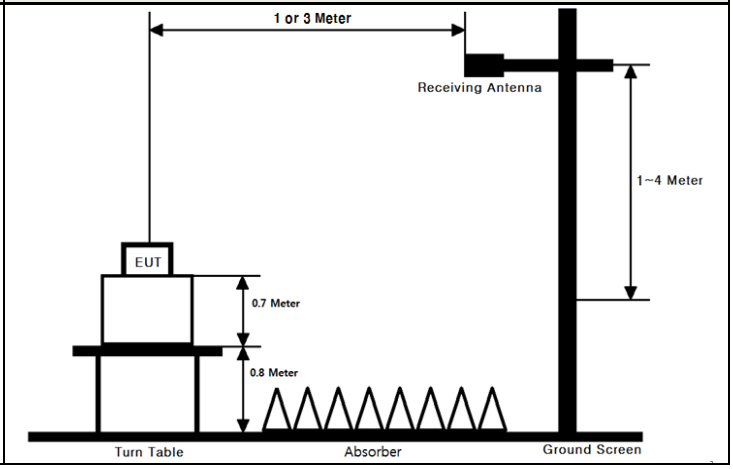
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

3.2. UNDESIRABLE EMISSIONS

Test Set-up

Below 1GHz	Above 1GHz
	

These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- **ANSI/TIA-603-E-2016 - Section 2.2.12**
- **KDB971168 D01v03 - Section 5.8**
- **ANSI C63.26-2015 – Section 5.5**

Test setting

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW ≥ 3 X RBW
2. Detector = RMS & Trace mode = power averaging (rms)
3. Sweep time = Auto couple
4. Number of sweep point ≥ 2 X span / RBW
5. The trace was allowed to stabilize

Note: If duty cycle < 98%, add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

Band(s)	T_{on}(ms)	T_{on+off} (ms)	Duty cycle = T_{on} / (T_{on+off})	10 log (1/duty cycle)
38, 41, 77, 78	1.0	5.0	0.2	7.0 dB

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

For radiated power measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated power measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

This measurement was performed with the EUT oriented in 3 orthogonal axis.

4. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal. Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	23/12/15	24/12/15	MY50110097
Spectrum Analyzer	KEYSIGHT	N9020A	23/12/15	24/12/15	MY52440526
Spectrum Analyzer	KEYSIGHT	N9030B	23/12/15	24/12/15	MY55480168
Spectrum Analyzer	Rohde Schwarz	FSW85	23/12/15	24/12/15	101530
DC power supply	H.P	6633A	23/12/15	24/12/15	3524A06634
Multimeter	FLUKE	17B+	23/12/15	24/12/15	36390701WS
Radio Communication Analyzer	KEYSIGHT	E7515B	23/06/23	24/06/23	MY60192461
Thermohygrometer	BODYCOM	BJ5478	23/12/15	24/12/15	120612-1
Thermohygrometer	BODYCOM	BJ5478	23/12/15	24/12/15	090205-4
Power Splitter	Anritsu	K241B	23/06/23	24/06/23	020611
Signal Generator	Rohde Schwarz	SMBV100A	23/12/15	24/12/15	255571
Signal Generator	ANRITSU	MG3695C	23/12/15	24/12/15	173501
Loop Antenna	ETS-Lindgren	6502	23/11/09	24/11/09	00060496
Bilog Antenna	Schwarzbeck	VULB 9160	23/12/15	24/12/15	3362
HORN ANT	ETS	3117	23/12/15	24/12/15	00140394
HORN ANT	A.H.Systems	SAS-574	23/06/23	24/06/23	155
PreAmplifier	H.P	8447D	23/12/15	24/12/15	2944A07774
PreAmplifier	Agilent	8449B	23/12/15	24/12/15	3008A02108
PreAmplifier	tsj	MLA-1840-J02-45	23/06/23	24/06/23	16966-10728
High-pass filter	Wainwright	WHKX12-935-1000-15000-40SS	23/12/15	24/12/15	7
High-pass filter	Wainwright	WHKX10-2838-3300-18000-60SS	23/12/15	24/12/15	2
High-pass filter	Wainwright	WHKX6-6320-8000-26500-40CC	23/12/15	24/12/15	2
High-pass filter	Wainwright	WHNX5.0/26.5G-6SS	23/06/23	24/06/23	8
Cable	HUBER+SUHNER	SUCOFLEX100	24/01/03	25/01/03	M-1
Cable	HUBER+SUHNER	SUCOFLEX100	24/01/03	25/01/03	M-2
Cable	JUNKOSHA	MWX241/B	24/01/03	25/01/03	M-3
Cable	JUNKOSHA	MWX221	24/01/03	25/01/03	M-4
Cable	JUNKOSHA	MWX221	24/01/03	25/01/03	M-5
Cable	JUNFLON	J12J101757-00	24/01/03	25/01/03	M-7
Cable	HUBER+SUHNER	SUCOFLEX104	24/01/03	25/01/03	M-8
Cable	HUBER+SUHNER	SUCOFLEX106	24/01/03	25/01/03	M-9
Cable	JUNKOSHA	MWX315	24/01/03	25/01/03	M-10
Cable	JUNKOSHA	MWX241	24/01/03	25/01/03	mmW-1
Cable	JUNKOSHA	MWX241	24/01/03	25/01/03	mmW-4

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.
Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Status Note 1
2.1046	Conducted Output Power	N/A	C
2.1046 90.635(b)	Conducted Output Power (n26: 814 ~ 824 MHz)	< 100 Watts	C
27.50(b)(9) 27.50(c)(9) 90.542(a)(6)	Effective Radiated Power (n12, 13, 14, 71)	< 30 Watts max. ERP (mobile station)	C
22.913(a.5)	Effective Radiated Power (n26, 5: 824 ~ 824 MHz)	< 7 Watts max. ERP	C
27.50(d)(4) 27.50(k)(3) 27.50(j)(3)	Equivalent Isotropic Radiated Power (n66, 70, 77, 78)	< 1 Watts max. EIRP	C
24.232(c) 27.50(h.2)	Equivalent Isotropic Radiated Power (n25, 2, 7, 41, 38)	< 2 Watts max. EIRP	C
27.50(a)(3)	Equivalent Isotropic Radiated Power (n30)	< 250mW/5MHz max. EIRP	C
2.1053 22.917(a) 24.238(a) 27.53(h)(1) 27.53(g) 90.543(c) 27.53(n)(2) 27.53(l)(2)	Undesirable Emissions (n26, 5, 2, 25, 66, 12, 13, 14, 70, 71, 77, 78)	> 43 + 10log$_{10}$ (P) dB for all out-of-band emissions	C
27.53(f) 90.543(f)	Undesirable Emissions in 1559 ~ 1610 MHz (n13, 14)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions of less than 700 Hz bandwidth)	C
27.53(m)(4)	Undesirable Emissions (n7, 41, 38)	> 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge where X is the greater of 6 megahertz or the actual emission bandwidth	C
27.53(a.4)	Undesirable Emissions (n30)	> 70 + 10 log (P) dB below 2288 MHz and Above 2365 MHz	C

Note 1: **C**=Comply **NC**=Not Comply **NT**=Not Tested **NA**=Not Applicable
Note 2: This device uses the certified module and the power configuration for band n30/77/78 was reduced by software.
The output power and radiated test items were measured and spot-check testing were performed on other FCC requirements.(OBW, Conducted band edge, Conducted spurious emission) Spot-check test results do not exceed the module results.
Please refer to the module test report for conducted signal test items. (FCC ID: XMR2022RM520NGL)
Note 3: Radiated test items were performed in three orthogonal EUT positions and the worst case data was reported.
Note 4: All antenna configuration were investigated and worst case data were reported.

6. SAMPLE CALCULATION

A. For substitution method

Unwanted emissions

1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3) Vary the measurement antenna height through 1 m to 4 m and the rotate EUT through 360° in order to determine the maximum emission level.
4) Record the measured emission level and frequency using the available test method.
If required by the test method, add 10 log(1/duty cycle) to measured emission level.
5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
6) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude. And adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the previously emission level[Measured level + 10 log(1/duty cycle)].
7) The conducted power at the terminal of the substitute antenna is measured.
8) Record the level at substituted antenna terminal.
9) The result is calculated as below;

EIRP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBi)
ERP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBd)
Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB

7. TEST DATA

7.1. ERP&EIRP

- Test Notes

1) EIRP(dBm) = Conducted Output power(dBm) + Antenna Gain(dBi)
ERP = EIRP – 2.15(dB)

7.1.1. NR Band n71

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20	673	π/2 BPSK	1/Mid	24.04	1.9	25.94	23.79
		QPSK	1/Inner right	23.93	1.9	25.83	23.68
		16QAM	1/Inner right	23.28	1.9	25.18	23.03
		64QAM	1/edge left	21.50	1.9	23.40	21.25
		256QAM	1/edge right	19.69	1.9	21.59	19.44
	680.5	π/2 BPSK	1/inner left	23.75	1.9	25.65	23.50
		QPSK	1/Mid	23.80	1.9	25.70	23.55
		16QAM	1/inner left	22.88	1.9	24.78	22.63
		64QAM	1/edge right	21.47	1.9	23.37	21.22
		256QAM	1/Mid	19.43	1.9	21.33	19.18
	688	π/2 BPSK	1/inner left	24.07	1.9	25.97	23.82
		QPSK	1/inner left	23.88	1.9	25.78	23.63
		16QAM	1/Mid	23.36	1.9	25.26	23.11
		64QAM	1/Mid	21.66	1.9	23.56	21.41
		256QAM	1/Mid	19.58	1.9	21.48	19.33
15	670.5	π/2 BPSK	1/Inner right	23.88	1.9	25.78	23.63
		QPSK	1/Inner right	23.97	1.9	25.87	23.72
		16QAM	1/inner left	23.14	1.9	25.04	22.89
		64QAM	1/edge right	21.30	1.9	23.20	21.05
		256QAM	1/Mid	19.65	1.9	21.55	19.40
	680.5	π/2 BPSK	1/inner left	23.96	1.9	25.86	23.71
		QPSK	1/inner left	23.98	1.9	25.88	23.73
		16QAM	1/inner left	23.05	1.9	24.95	22.80
		64QAM	1/inner left	21.91	1.9	23.81	21.66
		256QAM	1/inner left	19.72	1.9	21.62	19.47
	690.5	π/2 BPSK	1/Mid	23.64	1.9	25.54	23.39
		QPSK	1/inner left	23.98	1.9	25.88	23.73
		16QAM	1/Mid	23.53	1.9	25.43	23.28
		64QAM	1/Mid	21.53	1.9	23.43	21.28
		256QAM	1/edge right	19.57	1.9	21.47	19.32
10	668	π/2 BPSK	1/inner left	23.81	1.9	25.71	23.56
		QPSK	1/Mid	23.83	1.9	25.73	23.58
		16QAM	1/Mid	23.07	1.9	24.97	22.82
		64QAM	1/inner left	21.75	1.9	23.65	21.50
		256QAM	1/edge left	19.57	1.9	21.47	19.32
	680.5	π/2 BPSK	1/inner left	23.75	1.9	25.65	23.50
		QPSK	1/inner left	23.82	1.9	25.72	23.57
		16QAM	1/Mid	22.93	1.9	24.83	22.68
		64QAM	1/inner left	21.85	1.9	23.75	21.60
		256QAM	1/Mid	19.70	1.9	21.60	19.45
	693	π/2 BPSK	1/inner left	23.75	1.9	25.65	23.50
		QPSK	1/Inner right	23.87	1.9	25.77	23.62
		16QAM	1/Inner right	23.04	1.9	24.94	22.79
		64QAM	1/edge left	21.81	1.9	23.71	21.56
		256QAM	1/edge left	19.42	1.9	21.32	19.17

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
5	665.5	π/2 BPSK	1/Mid	23.85	1.9	25.75	23.60
		QPSK	1/inner left	23.95	1.9	25.85	23.70
		16QAM	1/inner left	22.86	1.9	24.76	22.61
		64QAM	1/Inner right	21.82	1.9	23.72	21.57
		256QAM	1/inner left	19.73	1.9	21.63	19.48
	680.5	π/2 BPSK	1/inner left	23.49	1.9	25.39	23.24
		QPSK	1/Inner right	23.62	1.9	25.52	23.37
		16QAM	1/Mid	22.63	1.9	24.53	22.38
		64QAM	1/edge left	21.50	1.9	23.40	21.25
		256QAM	1/edge right	19.02	1.9	20.92	18.77
	695.5	π/2 BPSK	1/inner left	23.85	1.9	25.75	23.60
		QPSK	1/Inner right	23.69	1.9	25.59	23.44
		16QAM	1/Mid	22.84	1.9	24.74	22.59
		64QAM	1/inner left	21.53	1.9	23.43	21.28
		256QAM	1/edge left	19.94	1.9	21.84	19.69

7.1.2. NR Band n12

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
15	706.5	π/2 BPSK	1/inner left	23.86	1.8	25.66	23.51
		QPSK	1/Inner right	23.86	1.8	25.66	23.51
		16QAM	1/Inner right	23.13	1.8	24.93	22.78
		64QAM	1/edge left	21.49	1.8	23.29	21.14
		256QAM	1/Mid	19.87	1.8	21.67	19.52
	708.5	π/2 BPSK	1/inner left	23.62	1.8	25.42	23.27
		QPSK	1/Inner right	23.76	1.8	25.56	23.41
		16QAM	1/Mid	23.32	1.8	25.12	22.97
		64QAM	1/inner left	21.50	1.8	23.30	21.15
		256QAM	1/Inner right	19.61	1.8	21.41	19.26
10	704	π/2 BPSK	1/inner left	23.79	1.8	25.59	23.44
		QPSK	1/Inner right	23.87	1.8	25.67	23.52
		16QAM	1/Mid	22.84	1.8	24.64	22.49
		64QAM	1/Inner right	21.50	1.8	23.30	21.15
		256QAM	1/Inner right	19.29	1.8	21.09	18.94
	711	π/2 BPSK	1/Mid	23.66	1.8	25.46	23.31
		QPSK	1/Mid	23.98	1.8	25.78	23.63
		16QAM	1/Mid	22.85	1.8	24.65	22.50
		64QAM	1/edge left	21.68	1.8	23.48	21.33
		256QAM	1/Inner right	19.37	1.8	21.17	19.02
5	701.5	π/2 BPSK	1/Mid	23.95	1.8	25.75	23.60
		QPSK	1/inner left	23.72	1.8	25.52	23.37
		16QAM	1/Inner right	22.88	1.8	24.68	22.53
		64QAM	1/inner left	21.34	1.8	23.14	20.99
		256QAM	1/Mid	19.60	1.8	21.40	19.25
	707.5	π/2 BPSK	1/Mid	23.72	1.8	25.52	23.37
		QPSK	1/Mid	23.95	1.8	25.75	23.60
		16QAM	1/inner left	22.87	1.8	24.67	22.52
		64QAM	1/Inner right	21.38	1.8	23.18	21.03
		256QAM	1/edge right	19.68	1.8	21.48	19.33
	713.5	π/2 BPSK	1/Mid	23.44	1.8	25.24	23.09
		QPSK	1/Inner right	23.57	1.8	25.37	23.22
		16QAM	1/inner left	23.03	1.8	24.83	22.68
		64QAM	1/inner left	21.56	1.8	23.36	21.21
		256QAM	1/Mid	19.31	1.8	21.11	18.96

7.1.3. NR Band n13

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10	782	π/2 BPSK	1/Mid	23.40	0.1	23.50	21.35
		QPSK	1/inner left	23.42	0.1	23.52	21.37
		16QAM	1/Mid	23.19	0.1	23.29	21.14
		64QAM	1/inner left	21.15	0.1	21.25	19.10
		256QAM	1/edge right	19.15	0.1	19.25	17.10
5	779.5	π/2 BPSK	1/Mid	23.53	0.1	23.63	21.48
		QPSK	1/Mid	23.57	0.1	23.67	21.52
		16QAM	1/Inner right	22.94	0.1	23.04	20.89
		64QAM	1/edge right	21.42	0.1	21.52	19.37
		256QAM	1/Mid	19.61	0.1	19.71	17.56
	782	π/2 BPSK	1/inner left	23.64	0.1	23.74	21.59
		QPSK	1/inner left	23.83	0.1	23.93	21.78
		16QAM	1/Inner right	22.88	0.1	22.98	20.83
		64QAM	1/edge left	21.23	0.1	21.33	19.18
		256QAM	1/edge right	19.40	0.1	19.50	17.35
	784.5	π/2 BPSK	1/inner left	23.63	0.1	23.73	21.58
		QPSK	1/Mid	23.55	0.1	23.65	21.50
		16QAM	1/Mid	23.26	0.1	23.36	21.21
		64QAM	1/Inner right	21.51	0.1	21.61	19.46
		256QAM	1/inner left	19.09	0.1	19.19	17.04

7.1.4. NR Band n14

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10	793	π/2 BPSK	1/Mid	23.70	0	23.70	21.55
		QPSK	1/Mid	24.13	0	24.13	21.98
		16QAM	1/inner left	23.22	0	23.22	21.07
		64QAM	1/inner left	21.83	0	21.83	19.68
		256QAM	1/Mid	19.20	0	19.20	17.05
5	790.5	π/2 BPSK	1/Mid	23.89	0	23.89	21.74
		QPSK	1/inner left	23.77	0	23.77	21.62
		16QAM	1/inner left	22.93	0	22.93	20.78
		64QAM	1/Mid	22.07	0	22.07	19.92
		256QAM	1/Inner right	19.81	0	19.81	17.66
	793	π/2 BPSK	1/inner left	23.91	0	23.91	21.76
		QPSK	1/Mid	23.88	0	23.88	21.73
		16QAM	1/Mid	23.04	0	23.04	20.89
		64QAM	1/inner left	22.03	0	22.03	19.88
		256QAM	1/edge left	19.36	0	19.36	17.21
	795.5	π/2 BPSK	1/Mid	23.58	0	23.58	21.43
		QPSK	1/inner left	23.84	0	23.84	21.69
		16QAM	1/Inner right	22.96	0	22.96	20.81
		64QAM	1/inner left	21.71	0	21.71	19.56
		256QAM	1/edge right	19.79	0	19.79	17.64

7.1.5. NR Band n26

External Antenna 1
814 ~ 824 MHz Band

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10	819	π/2 BPSK	1/Mid	23.58	0.7	24.28	22.13
		QPSK	1/inner left	23.74	0.7	24.44	22.29
		16QAM	1/Mid	22.81	0.7	23.51	21.36
		64QAM	1/Mid	21.46	0.7	22.16	20.01
		256QAM	1/Inner right	19.63	0.7	20.33	18.18
5	816.5	π/2 BPSK	1/Inner right	23.41	0.7	24.11	21.96
		QPSK	1/Inner right	23.66	0.7	24.36	22.21
		16QAM	1/Inner right	22.53	0.7	23.23	21.08
		64QAM	1/Mid	21.71	0.7	22.41	20.26
		256QAM	1/Mid	19.57	0.7	20.27	18.12
	821.5	π/2 BPSK	1/Mid	23.65	0.7	24.35	22.20
		QPSK	1/Mid	23.65	0.7	24.35	22.20
		16QAM	1/Mid	23.27	0.7	23.97	21.82
		64QAM	1/Inner right	21.40	0.7	22.10	19.95
		256QAM	1/edge left	19.57	0.7	20.27	18.12

824 ~ 849 MHz Band

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20	834	π/2 BPSK	1/Inner right	23.68	0.7	24.38	22.23
		QPSK	1/inner left	23.67	0.7	24.37	22.22
		16QAM	1/inner left	22.96	0.7	23.66	21.51
		64QAM	1/Inner right	21.32	0.7	22.02	19.87
		256QAM	1/Inner right	19.35	0.7	20.05	17.90
	836.5	π/2 BPSK	1/inner left	23.78	0.7	24.48	22.33
		QPSK	1/Mid	23.69	0.7	24.39	22.24
		16QAM	1/Mid	23.21	0.7	23.91	21.76
		64QAM	1/edge left	21.86	0.7	22.56	20.41
		256QAM	1/inner left	19.54	0.7	20.24	18.09
	839	π/2 BPSK	1/inner left	23.69	0.7	24.39	22.24
		QPSK	1/Mid	23.76	0.7	24.46	22.31
		16QAM	1/Mid	22.76	0.7	23.46	21.31
		64QAM	1/inner left	21.94	0.7	22.64	20.49
		256QAM	1/edge left	19.77	0.7	20.47	18.32
15	831.5	π/2 BPSK	1/Mid	23.80	0.7	24.50	22.35
		QPSK	1/Inner right	23.92	0.7	24.62	22.47
		16QAM	1/inner left	22.70	0.7	23.40	21.25
		64QAM	1/edge right	21.81	0.7	22.51	20.36
		256QAM	1/Mid	19.70	0.7	20.40	18.25
	836.5	π/2 BPSK	1/Inner right	23.76	0.7	24.46	22.31
		QPSK	1/inner left	23.68	0.7	24.38	22.23
		16QAM	1/Mid	22.68	0.7	23.38	21.23
		64QAM	1/edge left	21.90	0.7	22.60	20.45
		256QAM	1/Inner right	19.49	0.7	20.19	18.04
	841.5	π/2 BPSK	1/inner left	23.72	0.7	24.42	22.27
		QPSK	1/Inner right	23.71	0.7	24.41	22.26
		16QAM	1/Mid	22.97	0.7	23.67	21.52
		64QAM	1/Mid	21.73	0.7	22.43	20.28
		256QAM	1/Inner right	19.27	0.7	19.97	17.82
10	829	π/2 BPSK	1/Mid	23.51	0.7	24.21	22.06
		QPSK	1/Inner right	23.76	0.7	24.46	22.31
		16QAM	1/inner left	22.94	0.7	23.64	21.49
		64QAM	1/Inner right	21.59	0.7	22.29	20.14
		256QAM	1/edge left	19.19	0.7	19.89	17.74
	836.5	π/2 BPSK	1/Inner right	23.69	0.7	24.39	22.24
		QPSK	1/Inner right	23.78	0.7	24.48	22.33
		16QAM	1/Inner right	23.06	0.7	23.76	21.61
		64QAM	1/edge left	21.28	0.7	21.98	19.83
		256QAM	1/edge right	19.55	0.7	20.25	18.10
	844	π/2 BPSK	1/Mid	23.60	0.7	24.30	22.15
		QPSK	1/Mid	24.02	0.7	24.72	22.57
		16QAM	1/inner left	22.82	0.7	23.52	21.37
		64QAM	1/inner left	21.67	0.7	22.37	20.22
		256QAM	1/Mid	19.23	0.7	19.93	17.78

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
5	826.5	π/2 BPSK	1/Mid	23.79	0.7	24.49	22.34
		QPSK	1/Inner right	23.86	0.7	24.56	22.41
		16QAM	1/inner left	22.82	0.7	23.52	21.37
		64QAM	1/Mid	21.75	0.7	22.45	20.30
		256QAM	1/edge right	19.71	0.7	20.41	18.26
	836.5	π/2 BPSK	1/Mid	23.44	0.7	24.14	21.99
		QPSK	1/Inner right	23.50	0.7	24.20	22.05
		16QAM	1/Mid	22.79	0.7	23.49	21.34
		64QAM	1/inner left	21.83	0.7	22.53	20.38
		256QAM	1/Inner right	19.58	0.7	20.28	18.13
	846.5	π/2 BPSK	1/Inner right	23.70	0.7	24.40	22.25
		QPSK	1/Mid	23.85	0.7	24.55	22.40
		16QAM	1/Mid	23.17	0.7	23.87	21.72
		64QAM	1/Inner right	21.40	0.7	22.10	19.95
		256QAM	1/Inner right	19.58	0.7	20.28	18.13

7.1.6. NR Band n5

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20	834	π/2 BPSK	1/Inner right	23.68	0.7	24.38	22.23
		QPSK	1/inner left	23.71	0.7	24.41	22.26
		16QAM	1/Mid	23.02	0.7	23.72	21.57
		64QAM	1/inner left	21.25	0.7	21.95	19.80
		256QAM	1/edge right	19.83	0.7	20.53	18.38
	839	π/2 BPSK	1/Inner right	23.77	0.7	24.47	22.32
		QPSK	1/Mid	23.88	0.7	24.58	22.43
		16QAM	1/Mid	22.82	0.7	23.52	21.37
		64QAM	1/Inner right	21.57	0.7	22.27	20.12
		256QAM	1/Inner right	19.65	0.7	20.35	18.20
15	831.5	π/2 BPSK	1/Inner right	23.82	0.7	24.52	22.37
		QPSK	1/inner left	23.74	0.7	24.44	22.29
		16QAM	1/Inner right	23.29	0.7	23.99	21.84
		64QAM	1/Mid	21.82	0.7	22.52	20.37
		256QAM	1/edge right	19.73	0.7	20.43	18.28
	841.5	π/2 BPSK	1/inner left	23.83	0.7	24.53	22.38
		QPSK	1/Mid	23.78	0.7	24.48	22.33
		16QAM	1/Mid	23.18	0.7	23.88	21.73
		64QAM	1/inner left	21.80	0.7	22.50	20.35
		256QAM	1/edge left	19.57	0.7	20.27	18.12
10	829	π/2 BPSK	1/inner left	23.68	0.7	24.38	22.23
		QPSK	1/Mid	23.78	0.7	24.48	22.33
		16QAM	1/Inner right	23.06	0.7	23.76	21.61
		64QAM	1/edge left	21.53	0.7	22.23	20.08
		256QAM	1/Inner right	19.50	0.7	20.20	18.05
	836.5	π/2 BPSK	1/Inner right	23.68	0.7	24.38	22.23
		QPSK	1/Mid	23.58	0.7	24.28	22.13
		16QAM	1/inner left	22.80	0.7	23.50	21.35
		64QAM	1/Inner right	21.47	0.7	22.17	20.02
		256QAM	1/Inner right	19.17	0.7	19.87	17.72
	844	π/2 BPSK	1/Inner right	23.67	0.7	24.37	22.22
		QPSK	1/Inner right	23.84	0.7	24.54	22.39
		16QAM	1/inner left	22.86	0.7	23.56	21.41
		64QAM	1/edge right	21.90	0.7	22.60	20.45
		256QAM	1/inner left	19.30	0.7	20.00	17.85
5	826.5	π/2 BPSK	1/inner left	23.73	0.7	24.43	22.28
		QPSK	1/inner left	23.92	0.7	24.62	22.47
		16QAM	1/Mid	22.63	0.7	23.33	21.18
		64QAM	1/Mid	21.82	0.7	22.52	20.37
		256QAM	1/Inner right	19.66	0.7	20.36	18.21
	836.5	π/2 BPSK	1/Mid	23.81	0.7	24.51	22.36
		QPSK	1/inner left	23.90	0.7	24.60	22.45
		16QAM	1/Inner right	22.81	0.7	23.51	21.36
		64QAM	1/Mid	21.84	0.7	22.54	20.39
		256QAM	1/edge right	19.59	0.7	20.29	18.14
	846.5	π/2 BPSK	1/Inner right	23.47	0.7	24.17	22.02
		QPSK	1/Inner right	23.77	0.7	24.47	22.32
		16QAM	1/inner left	22.44	0.7	23.14	20.99
		64QAM	1/edge right	21.75	0.7	22.45	20.30
		256QAM	1/edge left	19.17	0.7	19.87	17.72

7.1.7. NR Band n70

Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	1 702.5	π/2 BPSK	1/Inner right	21.93	1.6	23.53
		QPSK	1/Inner right	22.10	1.6	23.70
		16QAM	1/inner left	21.22	1.6	22.82
		64QAM	1/edge left	19.67	1.6	21.27
		256QAM	1/Inner right	17.94	1.6	19.54
10	1 700	π/2 BPSK	1/Mid	21.89	1.6	23.49
		QPSK	1/Mid	22.02	1.6	23.62
		16QAM	1/inner left	21.22	1.6	22.82
		64QAM	1/Mid	20.00	1.6	21.60
		256QAM	1/Inner right	17.83	1.6	19.43
	1 702.5	π/2 BPSK	1/Mid	21.86	1.6	23.46
		QPSK	1/Mid	21.86	1.6	23.46
		16QAM	1/Mid	21.08	1.6	22.68
		64QAM	1/Inner right	19.50	1.6	21.10
		256QAM	1/edge left	17.70	1.6	19.30
	1 705	π/2 BPSK	1/Inner right	21.88	1.6	23.48
		QPSK	1/Mid	21.94	1.6	23.54
		16QAM	1/Inner right	21.02	1.6	22.62
		64QAM	1/edge right	19.70	1.6	21.30
		256QAM	1/Mid	17.89	1.6	19.49
5	1 697.5	π/2 BPSK	1/Inner right	21.77	1.6	23.37
		QPSK	1/Inner right	21.73	1.6	23.33
		16QAM	1/inner left	21.05	1.6	22.65
		64QAM	1/edge right	20.27	1.6	21.87
		256QAM	1/inner left	17.87	1.6	19.47
	1 702.5	π/2 BPSK	1/Inner right	22.01	1.6	23.61
		QPSK	1/Mid	22.22	1.6	23.82
		16QAM	1/inner left	21.35	1.6	22.95
		64QAM	1/inner left	19.84	1.6	21.44
		256QAM	1/Mid	17.91	1.6	19.51
	1 707.5	π/2 BPSK	1/Mid	21.92	1.6	23.52
		QPSK	1/Inner right	21.86	1.6	23.46
		16QAM	1/Mid	21.45	1.6	23.05
		64QAM	1/Inner right	19.76	1.6	21.36
		256QAM	1/edge left	18.23	1.6	19.83

7.1.8. NR Band n66

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	1 730	π/2 BPSK	1/Mid	22.45	2.6	25.05
		QPSK	1/Mid	22.44	2.6	25.04
		16QAM	1/Mid	21.71	2.6	24.31
		64QAM	1/inner left	20.55	2.6	23.15
		256QAM	1/Inner right	18.33	2.6	20.93
	1 760	π/2 BPSK	1/inner left	22.45	2.6	25.05
		QPSK	1/inner left	22.36	2.6	24.96
		16QAM	1/inner left	21.47	2.6	24.07
		64QAM	1/edge left	19.99	2.6	22.59
		256QAM	1/edge left	18.14	2.6	20.74
30	1 725	π/2 BPSK	1/Inner right	22.47	2.6	25.07
		QPSK	1/Inner right	22.47	2.6	25.07
		16QAM	1/Mid	21.78	2.6	24.38
		64QAM	1/Inner right	20.24	2.6	22.84
		256QAM	1/Inner right	18.45	2.6	21.05
	1 745	π/2 BPSK	1/inner left	22.34	2.6	24.94
		QPSK	1/Mid	22.33	2.6	24.93
		16QAM	1/Mid	21.58	2.6	24.18
		64QAM	1/inner left	20.12	2.6	22.72
		256QAM	1/inner left	18.14	2.6	20.74
	1 765	π/2 BPSK	1/Mid	22.33	2.6	24.93
		QPSK	1/inner left	22.34	2.6	24.94
		16QAM	1/Mid	21.36	2.6	23.96
		64QAM	1/Mid	20.10	2.6	22.70
		256QAM	1/edge right	18.21	2.6	20.81
20	1 720	π/2 BPSK	1/Inner right	22.49	2.6	25.09
		QPSK	1/Inner right	22.55	2.6	25.15
		16QAM	1/Mid	21.65	2.6	24.25
		64QAM	1/edge right	20.28	2.6	22.88
		256QAM	1/Inner right	18.05	2.6	20.65
	1 745	π/2 BPSK	1/inner left	22.31	2.6	24.91
		QPSK	1/Mid	22.40	2.6	25.00
		16QAM	1/Inner right	21.91	2.6	24.51
		64QAM	1/Mid	20.30	2.6	22.90
		256QAM	1/inner left	18.40	2.6	21.00
	1 770	π/2 BPSK	1/Mid	22.29	2.6	24.89
		QPSK	1/Mid	22.25	2.6	24.85
		16QAM	1/Inner right	21.33	2.6	23.93
		64QAM	1/edge right	20.16	2.6	22.76
		256QAM	1/Mid	18.05	2.6	20.65

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	1 717.5	π/2 BPSK	1/inner left	22.42	2.6	25.02
		QPSK	1/Inner right	22.40	2.6	25.00
		16QAM	1/Inner right	21.82	2.6	24.42
		64QAM	1/inner left	20.24	2.6	22.84
		256QAM	1/Mid	18.45	2.6	21.05
	1 745	π/2 BPSK	1/Inner right	22.29	2.6	24.89
		QPSK	1/Inner right	22.55	2.6	25.15
		16QAM	1/inner left	21.68	2.6	24.28
		64QAM	1/inner left	20.12	2.6	22.72
		256QAM	1/edge left	17.92	2.6	20.52
	1 772.5	π/2 BPSK	1/inner left	22.38	2.6	24.98
		QPSK	1/inner left	22.29	2.6	24.89
		16QAM	1/inner left	21.62	2.6	24.22
		64QAM	1/inner left	20.10	2.6	22.70
		256QAM	1/edge right	18.23	2.6	20.83
10	1 715	π/2 BPSK	1/Mid	22.33	2.6	24.93
		QPSK	1/inner left	22.36	2.6	24.96
		16QAM	1/inner left	21.52	2.6	24.12
		64QAM	1/edge right	20.19	2.6	22.79
		256QAM	1/inner left	18.12	2.6	20.72
	1 745	π/2 BPSK	1/Mid	22.33	2.6	24.93
		QPSK	1/Mid	22.34	2.6	24.94
		16QAM	1/inner left	21.33	2.6	23.93
		64QAM	1/edge right	20.26	2.6	22.86
		256QAM	1/Mid	17.65	2.6	20.25
	1 775	π/2 BPSK	1/inner left	22.03	2.6	24.63
		QPSK	1/Inner right	21.66	2.6	24.26
		16QAM	1/inner left	21.45	2.6	24.05
		64QAM	1/edge left	19.87	2.6	22.47
		256QAM	1/inner left	17.82	2.6	20.42
5	1 712.5	π/2 BPSK	1/inner left	22.21	2.6	24.81
		QPSK	1/Mid	22.34	2.6	24.94
		16QAM	1/inner left	21.43	2.6	24.03
		64QAM	1/Mid	20.19	2.6	22.79
		256QAM	1/Inner right	17.81	2.6	20.41
	1 745	π/2 BPSK	1/inner left	22.21	2.6	24.81
		QPSK	1/inner left	22.37	2.6	24.97
		16QAM	1/Inner right	21.43	2.6	24.03
		64QAM	1/inner left	19.80	2.6	22.40
		256QAM	1/edge right	18.23	2.6	20.83
	1 777.5	π/2 BPSK	1/Mid	22.04	2.6	24.64
		QPSK	1/Inner right	22.09	2.6	24.69
		16QAM	1/Inner right	21.63	2.6	24.23
		64QAM	1/edge right	20.00	2.6	22.60
		256QAM	1/edge left	17.80	2.6	20.40

7.1.9. NR Band n2

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
20	1 860	π/2 BPSK	1/Mid	22.85	4.4	27.25
		QPSK	1/inner left	23.04	4.4	27.44
		16QAM	1/inner left	22.48	4.4	26.88
		64QAM	1/Inner right	20.68	4.4	25.08
		256QAM	1/Inner right	18.97	4.4	23.37
	1 880	π/2 BPSK	1/inner left	22.89	4.4	27.29
		QPSK	1/Inner right	23.04	4.4	27.44
		16QAM	1/inner left	22.46	4.4	26.86
		64QAM	1/Inner right	20.71	4.4	25.11
		256QAM	1/edge right	18.83	4.4	23.23
	1 900	π/2 BPSK	1/Mid	22.77	4.4	27.17
		QPSK	1/Mid	22.85	4.4	27.25
		16QAM	1/Inner right	22.21	4.4	26.61
		64QAM	1/Mid	20.60	4.4	25.00
		256QAM	1/edge right	19.07	4.4	23.47
15	1 857.5	π/2 BPSK	1/Mid	22.99	4.4	27.39
		QPSK	1/inner left	23.17	4.4	27.57
		16QAM	1/inner left	22.62	4.4	27.02
		64QAM	1/Inner right	20.70	4.4	25.10
		256QAM	1/inner left	18.58	4.4	22.98
	1 880	π/2 BPSK	1/Mid	22.96	4.4	27.36
		QPSK	1/Inner right	23.18	4.4	27.58
		16QAM	1/inner left	22.49	4.4	26.89
		64QAM	1/inner left	20.64	4.4	25.04
		256QAM	1/inner left	19.04	4.4	23.44
	1 902.5	π/2 BPSK	1/Mid	23.03	4.4	27.43
		QPSK	1/Mid	22.72	4.4	27.12
		16QAM	1/inner left	22.16	4.4	26.56
		64QAM	1/inner left	20.51	4.4	24.91
		256QAM	1/edge right	18.99	4.4	23.39
10	1 855	π/2 BPSK	1/Mid	22.86	4.4	27.26
		QPSK	1/Mid	22.84	4.4	27.24
		16QAM	1/inner left	21.90	4.4	26.30
		64QAM	1/inner left	21.01	4.4	25.41
		256QAM	1/edge left	18.43	4.4	22.83
	1 880	π/2 BPSK	1/Mid	22.77	4.4	27.17
		QPSK	1/Mid	22.84	4.4	27.24
		16QAM	1/Mid	22.35	4.4	26.75
		64QAM	1/edge left	20.88	4.4	25.28
		256QAM	1/edge right	18.40	4.4	22.80
	1 905	π/2 BPSK	1/inner left	22.69	4.4	27.09
		QPSK	1/inner left	22.83	4.4	27.23
		16QAM	1/Mid	21.85	4.4	26.25
		64QAM	1/Mid	20.65	4.4	25.05
		256QAM	1/edge left	18.47	4.4	22.87

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
5	1 852.5	π/2 BPSK	1/inner left	22.88	4.4	27.28
		QPSK	1/Mid	23.21	4.4	27.61
		16QAM	1/inner left	22.35	4.4	26.75
		64QAM	1/Mid	20.78	4.4	25.18
		256QAM	1/inner left	18.48	4.4	22.88
	1 880	π/2 BPSK	1/Mid	22.96	4.4	27.36
		QPSK	1/inner left	23.23	4.4	27.63
		16QAM	1/Inner right	22.19	4.4	26.59
		64QAM	1/Mid	20.87	4.4	25.27
		256QAM	1/edge left	19.05	4.4	23.45
	1 907.5	π/2 BPSK	1/inner left	22.87	4.4	27.27
		QPSK	1/inner left	22.77	4.4	27.17
		16QAM	1/inner left	21.95	4.4	26.35
		64QAM	1/inner left	20.75	4.4	25.15
		256QAM	1/Mid	18.91	4.4	23.31

7.1.10. NR Band n25

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	1 870	π/2 BPSK	1/inner left	22.05	4.4	26.45
		QPSK	1/inner left	22.05	4.4	26.45
		16QAM	1/Inner right	21.40	4.4	25.80
		64QAM	1/Mid	19.88	4.4	24.28
		256QAM	1/inner left	17.68	4.4	22.08
	1 882.5	π/2 BPSK	1/inner left	22.12	4.4	26.52
		QPSK	1/Mid	22.23	4.4	26.63
		16QAM	1/inner left	21.32	4.4	25.72
		64QAM	1/edge left	19.76	4.4	24.16
		256QAM	1/inner left	17.89	4.4	22.29
	1 895	π/2 BPSK	1/Mid	22.01	4.4	26.41
		QPSK	1/inner left	22.02	4.4	26.42
		16QAM	1/Mid	21.34	4.4	25.74
		64QAM	1/edge left	19.68	4.4	24.08
		256QAM	1/inner left	17.98	4.4	22.38
30	1 865	π/2 BPSK	1/Mid	22.08	4.4	26.48
		QPSK	1/Mid	22.22	4.4	26.62
		16QAM	1/Inner right	21.26	4.4	25.66
		64QAM	1/Mid	19.91	4.4	24.31
		256QAM	1/edge left	17.89	4.4	22.29
	1 882.5	π/2 BPSK	1/inner left	22.03	4.4	26.43
		QPSK	1/Mid	22.05	4.4	26.45
		16QAM	1/inner left	21.12	4.4	25.52
		64QAM	1/inner left	19.77	4.4	24.17
		256QAM	1/Inner right	18.01	4.4	22.41
	1 900	π/2 BPSK	1/Mid	21.98	4.4	26.38
		QPSK	1/Mid	21.98	4.4	26.38
		16QAM	1/Mid	21.20	4.4	25.60
		64QAM	1/edge left	19.74	4.4	24.14
		256QAM	1/inner left	17.88	4.4	22.28
25	1 862.5	π/2 BPSK	1/inner left	22.46	4.4	26.86
		QPSK	1/Mid	22.37	4.4	26.77
		16QAM	1/inner left	21.53	4.4	25.93
		64QAM	1/edge right	20.28	4.4	24.68
		256QAM	1/inner left	18.16	4.4	22.56
	1 882.5	π/2 BPSK	1/Inner right	22.29	4.4	26.69
		QPSK	1/Mid	22.19	4.4	26.59
		16QAM	1/Inner right	21.49	4.4	25.89
		64QAM	1/edge left	20.22	4.4	24.62
		256QAM	1/edge left	18.33	4.4	22.73
	1 902.5	π/2 BPSK	1/inner left	22.14	4.4	26.54
		QPSK	1/inner left	22.20	4.4	26.60
		16QAM	1/inner left	21.41	4.4	25.81
		64QAM	1/inner left	20.38	4.4	24.78
		256QAM	1/edge left	18.04	4.4	22.44

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
20	1 860	π/2 BPSK	1/Mid	22.17	4.4	26.57
		QPSK	1/Inner right	22.10	4.4	26.50
		16QAM	1/Inner right	21.35	4.4	25.75
		64QAM	1/edge right	19.80	4.4	24.20
		256QAM	1/edge left	18.31	4.4	22.71
	1 882.5	π/2 BPSK	1/Mid	22.03	4.4	26.43
		QPSK	1/Mid	22.09	4.4	26.49
		16QAM	1/inner left	21.36	4.4	25.76
		64QAM	1/edge left	19.66	4.4	24.06
		256QAM	1/edge left	17.68	4.4	22.08
	1 905	π/2 BPSK	1/inner left	21.99	4.4	26.39
		QPSK	1/inner left	22.18	4.4	26.58
		16QAM	1/Mid	21.04	4.4	25.44
		64QAM	1/inner left	19.76	4.4	24.16
		256QAM	1/edge left	17.92	4.4	22.32
15	1 857.5	π/2 BPSK	1/inner left	22.15	4.4	26.55
		QPSK	1/inner left	22.26	4.4	26.66
		16QAM	1/Inner right	21.01	4.4	25.41
		64QAM	1/edge left	20.17	4.4	24.57
		256QAM	1/inner left	18.13	4.4	22.53
	1 882.5	π/2 BPSK	1/inner left	22.03	4.4	26.43
		QPSK	1/Mid	22.10	4.4	26.50
		16QAM	1/Inner right	21.27	4.4	25.67
		64QAM	1/edge right	19.67	4.4	24.07
		256QAM	1/inner left	18.45	4.4	22.85
	1 907.5	π/2 BPSK	1/Inner right	22.17	4.4	26.57
		QPSK	1/inner left	21.99	4.4	26.39
		16QAM	1/Mid	20.63	4.4	25.03
		64QAM	1/edge left	19.66	4.4	24.06
		256QAM	1/inner left	17.18	4.4	21.58
10	1 855	π/2 BPSK	1/Inner right	21.95	4.4	26.35
		QPSK	1/Inner right	21.87	4.4	26.27
		16QAM	1/inner left	21.35	4.4	25.75
		64QAM	1/Mid	20.09	4.4	24.49
		256QAM	1/Inner right	17.57	4.4	21.97
	1 882.5	π/2 BPSK	1/inner left	21.97	4.4	26.37
		QPSK	1/Mid	21.94	4.4	26.34
		16QAM	1/Mid	21.05	4.4	25.45
		64QAM	1/Inner right	20.23	4.4	24.63
		256QAM	1/inner left	17.44	4.4	21.84
	1 910	π/2 BPSK	1/inner left	21.55	4.4	25.95
		QPSK	1/Inner right	21.68	4.4	26.08
		16QAM	1/inner left	20.86	4.4	25.26
		64QAM	1/inner left	19.35	4.4	23.75
		256QAM	1/edge right	17.60	4.4	22.00

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
5	1 852.5	π/2 BPSK	1/inner left	21.89	4.4	26.29
		QPSK	1/inner left	21.87	4.4	26.27
		16QAM	1/Inner right	21.34	4.4	25.74
		64QAM	1/Mid	19.75	4.4	24.15
		256QAM	1/edge left	17.95	4.4	22.35
	1 882.5	π/2 BPSK	1/Mid	21.91	4.4	26.31
		QPSK	1/Inner right	22.16	4.4	26.56
		16QAM	1/Mid	21.18	4.4	25.58
		64QAM	1/inner left	19.79	4.4	24.19
		256QAM	1/edge left	17.83	4.4	22.23
	1 912.5	π/2 BPSK	1/Mid	21.65	4.4	26.05
		QPSK	1/Inner right	21.63	4.4	26.03
		16QAM	1/inner left	20.63	4.4	25.03
		64QAM	1/Inner right	19.65	4.4	24.05
		256QAM	1/edge right	17.47	4.4	21.87

7.1.11. NR Band n30

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm/5MHz)	Antenna Gain(dBi)	EIRP (dBm/5MHz)
10	2 310	π/2 BPSK	1/Inner right	16.36	2.4	18.76
		QPSK	1/Inner right	16.13	2.4	18.53
		16QAM	1/Inner right	15.73	2.4	18.13
		64QAM	1/edge right	14.40	2.4	16.80
		256QAM	1/Mid	12.30	2.4	14.70
5	2 307.5	π/2 BPSK	1/Mid	16.28	2.4	18.68
		QPSK	1/Mid	16.21	2.4	18.61
		16QAM	1/Mid	15.20	2.4	17.60
		64QAM	1/Mid	13.99	2.4	16.39
		256QAM	1/Inner right	12.02	2.4	14.42
	2 310	π/2 BPSK	1/Inner right	16.08	2.4	18.48
		QPSK	1/Inner right	16.28	2.4	18.68
		16QAM	1/Mid	16.12	2.4	18.52
		64QAM	1/edge left	14.69	2.4	17.09
		256QAM	1/inner left	12.23	2.4	14.63
	2 312.5	π/2 BPSK	1/Inner right	16.29	2.4	18.69
		QPSK	1/Mid	16.27	2.4	18.67
		16QAM	1/Inner right	15.34	2.4	17.74
		64QAM	1/inner left	14.52	2.4	16.92
		256QAM	1/inner left	12.54	2.4	14.94

7.1.12. NR Band n7

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	2 520	π/2 BPSK	1/Inner right	23.13	3.7	26.83
		QPSK	1/Inner right	23.08	3.7	26.78
		16QAM	1/Inner right	22.28	3.7	25.98
		64QAM	1/inner left	20.68	3.7	24.38
		256QAM	1/Inner right	18.89	3.7	22.59
	2 535	π/2 BPSK	1/inner left	23.13	3.7	26.83
		QPSK	1/Inner right	23.08	3.7	26.78
		16QAM	1/inner left	22.45	3.7	26.15
		64QAM	1/inner left	20.67	3.7	24.37
		256QAM	1/Inner right	18.90	3.7	22.60
	2 550	π/2 BPSK	1/inner left	23.14	3.7	26.84
		QPSK	1/Inner right	23.21	3.7	26.91
		16QAM	1/Inner right	22.43	3.7	26.13
		64QAM	1/edge left	20.95	3.7	24.65
		256QAM	1/edge right	19.15	3.7	22.85
30	2 515	π/2 BPSK	1/Inner right	23.11	3.7	26.81
		QPSK	1/inner left	23.21	3.7	26.91
		16QAM	1/Mid	22.17	3.7	25.87
		64QAM	1/Mid	20.85	3.7	24.55
		256QAM	1/edge left	18.84	3.7	22.54
	2 535	π/2 BPSK	1/Inner right	23.04	3.7	26.74
		QPSK	1/Inner right	23.08	3.7	26.78
		16QAM	1/Mid	22.45	3.7	26.15
		64QAM	1/Inner right	20.81	3.7	24.51
		256QAM	1/Inner right	18.97	3.7	22.67
	2 555	π/2 BPSK	1/Mid	23.35	3.7	27.05
		QPSK	1/Mid	23.26	3.7	26.96
		16QAM	1/inner left	22.45	3.7	26.15
		64QAM	1/edge right	20.96	3.7	24.66
		256QAM	1/Inner right	18.80	3.7	22.50
25	2 512.5	π/2 BPSK	1/Inner right	23.39	3.7	27.09
		QPSK	1/inner left	23.41	3.7	27.11
		16QAM	1/inner left	22.70	3.7	26.40
		64QAM	1/inner left	21.26	3.7	24.96
		256QAM	1/edge right	19.21	3.7	22.91
	2 535	π/2 BPSK	1/Inner right	23.40	3.7	27.10
		QPSK	1/Inner right	23.28	3.7	26.98
		16QAM	1/Inner right	22.41	3.7	26.11
		64QAM	1/Inner right	21.38	3.7	25.08
		256QAM	1/edge left	19.00	3.7	22.70
	2 557.5	π/2 BPSK	1/Inner right	23.43	3.7	27.13
		QPSK	1/Inner right	23.38	3.7	27.08
		16QAM	1/Inner right	22.52	3.7	26.22
		64QAM	1/edge right	21.32	3.7	25.02
		256QAM	1/inner left	19.20	3.7	22.90

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
20	2 510	π/2 BPSK	1/Mid	23.20	3.7	26.90
		QPSK	1/Mid	23.24	3.7	26.94
		16QAM	1/inner left	22.44	3.7	26.14
		64QAM	1/inner left	20.99	3.7	24.69
		256QAM	1/inner left	18.87	3.7	22.57
	2 535	π/2 BPSK	1/Inner right	23.07	3.7	26.77
		QPSK	1/inner left	23.10	3.7	26.80
		16QAM	1/inner left	22.24	3.7	25.94
		64QAM	1/Mid	20.67	3.7	24.37
		256QAM	1/edge right	19.19	3.7	22.89
	2 560	π/2 BPSK	1/Inner right	23.21	3.7	26.91
		QPSK	1/Mid	23.30	3.7	27.00
		16QAM	1/Inner right	22.50	3.7	26.20
		64QAM	1/inner left	20.94	3.7	24.64
		256QAM	1/inner left	19.31	3.7	23.01
15	2 507.5	π/2 BPSK	1/inner left	23.06	3.7	26.76
		QPSK	1/Mid	23.07	3.7	26.77
		16QAM	1/inner left	22.28	3.7	25.98
		64QAM	1/edge right	20.99	3.7	24.69
		256QAM	1/edge left	18.82	3.7	22.52
	2 535	π/2 BPSK	1/Mid	23.03	3.7	26.73
		QPSK	1/inner left	23.13	3.7	26.83
		16QAM	1/inner left	22.50	3.7	26.20
		64QAM	1/edge right	20.93	3.7	24.63
		256QAM	1/edge left	19.00	3.7	22.70
	2 562.5	π/2 BPSK	1/inner left	23.37	3.7	27.07
		QPSK	1/Inner right	23.10	3.7	26.80
		16QAM	1/Mid	22.49	3.7	26.19
		64QAM	1/edge right	21.13	3.7	24.83
		256QAM	1/Inner right	18.77	3.7	22.47
10	2 505	π/2 BPSK	1/inner left	22.80	3.7	26.50
		QPSK	1/inner left	23.01	3.7	26.71
		16QAM	1/Mid	22.01	3.7	25.71
		64QAM	1/inner left	20.63	3.7	24.33
		256QAM	1/edge right	18.55	3.7	22.25
	2 535	π/2 BPSK	1/Mid	22.95	3.7	26.65
		QPSK	1/inner left	22.74	3.7	26.44
		16QAM	1/Mid	22.34	3.7	26.04
		64QAM	1/edge left	20.27	3.7	23.97
		256QAM	1/edge right	18.91	3.7	22.61
	2 565	π/2 BPSK	1/Inner right	23.07	3.7	26.77
		QPSK	1/Inner right	23.02	3.7	26.72
		16QAM	1/Inner right	22.02	3.7	25.72
		64QAM	1/edge right	20.78	3.7	24.48
		256QAM	1/edge right	18.87	3.7	22.57

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
5	2 502.5	π/2 BPSK	1/Mid	22.85	3.7	26.55
		QPSK	1/Mid	23.11	3.7	26.81
		16QAM	1/inner left	22.49	3.7	26.19
		64QAM	1/Inner right	20.57	3.7	24.27
		256QAM	1/Inner right	19.23	3.7	22.93
	2 535	π/2 BPSK	1/inner left	22.91	3.7	26.61
		QPSK	1/inner left	22.87	3.7	26.57
		16QAM	1/inner left	22.27	3.7	25.97
		64QAM	1/edge right	21.35	3.7	25.05
		256QAM	1/Inner right	19.16	3.7	22.86
	2 567.5	π/2 BPSK	1/Inner right	23.08	3.7	26.78
		QPSK	1/Inner right	23.03	3.7	26.73
		16QAM	1/inner left	22.15	3.7	25.85
		64QAM	1/edge right	21.04	3.7	24.74
		256QAM	1/Inner right	18.70	3.7	22.40

7.1.13. NR Band n41

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Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	2 546.01	π/2 BPSK	1/Inner right	24.77	3.7	28.47
		QPSK	1/Inner right	24.63	3.7	28.33
		16QAM	1/Inner right	23.70	3.7	27.40
		64QAM	1/Inner right	22.30	3.7	26.00
		256QAM	1/Inner right	20.24	3.7	23.94
	2 592.99	π/2 BPSK	1/Inner right	24.56	3.7	28.26
		QPSK	1/Inner right	24.60	3.7	28.30
		16QAM	1/inner left	23.68	3.7	27.38
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/Inner right	20.36	3.7	24.06
	2 640.00	π/2 BPSK	1/Inner right	24.54	3.7	28.24
		QPSK	1/Inner right	24.62	3.7	28.32
		16QAM	1/Inner right	23.65	3.7	27.35
		64QAM	1/Inner right	22.13	3.7	25.83
		256QAM	1/Inner right	20.29	3.7	23.99
90	2 541.00	π/2 BPSK	1/Inner right	24.60	3.7	28.30
		QPSK	1/Inner right	24.61	3.7	28.31
		16QAM	1/Inner right	23.71	3.7	27.41
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/Inner right	20.31	3.7	24.01
	2 592.99	π/2 BPSK	1/Inner right	24.56	3.7	28.26
		QPSK	1/Inner right	24.52	3.7	28.22
		16QAM	1/Inner right	23.79	3.7	27.49
		64QAM	1/Inner right	22.12	3.7	25.82
		256QAM	1/Inner right	20.34	3.7	24.04
	2 644.98	π/2 BPSK	1/Inner right	24.55	3.7	28.25
		QPSK	1/Inner right	24.62	3.7	28.32
		16QAM	1/Inner right	23.67	3.7	27.37
		64QAM	1/Inner right	22.12	3.7	25.82
		256QAM	1/Mid	20.29	3.7	23.99
80	2 536.02	π/2 BPSK	1/Inner right	24.59	3.7	28.29
		QPSK	1/Inner right	24.65	3.7	28.35
		16QAM	1/Inner right	23.71	3.7	27.41
		64QAM	1/inner left	22.12	3.7	25.82
		256QAM	1/Inner right	20.30	3.7	24.00
	2 592.99	π/2 BPSK	1/Inner right	24.51	3.7	28.21
		QPSK	1/Inner right	24.63	3.7	28.33
		16QAM	1/Inner right	23.71	3.7	27.41
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/Inner right	20.26	3.7	23.96
	2 649.99	π/2 BPSK	1/Inner right	24.60	3.7	28.30
		QPSK	1/Inner right	24.63	3.7	28.33
		16QAM	1/inner left	23.64	3.7	27.34
		64QAM	1/Inner right	22.23	3.7	25.93
		256QAM	1/Mid	20.21	3.7	23.91

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
70	2 531.01	π/2 BPSK	1/Inner right	24.60	3.7	28.30
		QPSK	1/Mid	24.54	3.7	28.24
		16QAM	1/Inner right	23.67	3.7	27.37
		64QAM	1/Inner right	22.26	3.7	25.96
		256QAM	1/Inner right	20.26	3.7	23.96
	2 592.99	π/2 BPSK	1/Inner right	24.65	3.7	28.35
		QPSK	1/Inner right	24.52	3.7	28.22
		16QAM	1/Inner right	23.68	3.7	27.38
		64QAM	1/Inner right	22.14	3.7	25.84
		256QAM	1/Inner right	20.31	3.7	24.01
	2 655.00	π/2 BPSK	1/Inner right	24.64	3.7	28.34
		QPSK	1/Inner right	24.57	3.7	28.27
		16QAM	1/Inner right	23.64	3.7	27.34
		64QAM	1/Inner right	22.24	3.7	25.94
		256QAM	1/Inner right	20.28	3.7	23.98
60	2 526.00	π/2 BPSK	1/Inner right	24.51	3.7	28.21
		QPSK	1/Inner right	24.60	3.7	28.30
		16QAM	1/Inner right	23.76	3.7	27.46
		64QAM	1/Inner right	22.15	3.7	25.85
		256QAM	1/Inner right	20.40	3.7	24.10
	2 592.99	π/2 BPSK	1/Inner right	24.50	3.7	28.20
		QPSK	1/Inner right	24.58	3.7	28.28
		16QAM	1/Inner right	23.70	3.7	27.40
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/Inner right	20.32	3.7	24.02
	2 659.98	π/2 BPSK	1/Inner right	24.63	3.7	28.33
		QPSK	1/Inner right	24.62	3.7	28.32
		16QAM	1/Inner right	23.75	3.7	27.45
		64QAM	1/Inner right	22.15	3.7	25.85
		256QAM	1/inner left	20.22	3.7	23.92
50	2 521.02	π/2 BPSK	1/Inner right	24.61	3.7	28.31
		QPSK	1/Inner right	24.54	3.7	28.24
		16QAM	1/Inner right	23.76	3.7	27.46
		64QAM	1/Mid	22.15	3.7	25.85
		256QAM	1/Inner right	20.33	3.7	24.03
	2 592.99	π/2 BPSK	1/Inner right	24.51	3.7	28.21
		QPSK	1/Inner right	24.56	3.7	28.26
		16QAM	1/Inner right	23.77	3.7	27.47
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/Inner right	20.39	3.7	24.09
	2 664.99	π/2 BPSK	1/Inner right	24.54	3.7	28.24
		QPSK	1/inner left	24.54	3.7	28.24
		16QAM	1/Inner right	23.72	3.7	27.42
		64QAM	1/inner left	22.15	3.7	25.85
		256QAM	1/Inner right	20.30	3.7	24.00

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	2 516.01	π/2 BPSK	1/Mid	24.55	3.7	28.25
		QPSK	1/Mid	24.52	3.7	28.22
		16QAM	1/Inner right	23.74	3.7	27.44
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/inner left	20.29	3.7	23.99
	2 592.99	π/2 BPSK	1/Inner right	24.51	3.7	28.21
		QPSK	1/Inner right	24.63	3.7	28.33
		16QAM	1/Inner right	23.65	3.7	27.35
		64QAM	1/Inner right	22.28	3.7	25.98
		256QAM	1/inner left	20.30	3.7	24.00
	2 670.00	π/2 BPSK	1/Inner right	24.62	3.7	28.32
		QPSK	1/Inner right	24.58	3.7	28.28
		16QAM	1/Mid	23.66	3.7	27.36
		64QAM	1/Mid	22.19	3.7	25.89
		256QAM	1/Inner right	20.23	3.7	23.93
30	2 511.00	π/2 BPSK	1/Inner right	24.56	3.7	28.26
		QPSK	1/Inner right	24.64	3.7	28.34
		16QAM	1/Inner right	23.73	3.7	27.43
		64QAM	1/Inner right	22.26	3.7	25.96
		256QAM	1/Inner right	20.40	3.7	24.10
	2 592.99	π/2 BPSK	1/Inner right	24.56	3.7	28.26
		QPSK	1/Inner right	24.61	3.7	28.31
		16QAM	1/Inner right	23.68	3.7	27.38
		64QAM	1/Inner right	22.27	3.7	25.97
		256QAM	1/Inner right	20.40	3.7	24.10
	2 674.98	π/2 BPSK	1/Inner right	24.61	3.7	28.31
		QPSK	1/Inner right	24.56	3.7	28.26
		16QAM	1/Inner right	23.77	3.7	27.47
		64QAM	1/Inner right	22.24	3.7	25.94
		256QAM	1/Inner right	20.32	3.7	24.02
20	2 506.02	π/2 BPSK	1/Inner right	24.62	3.7	28.32
		QPSK	1/Inner right	24.61	3.7	28.31
		16QAM	1/Mid	23.70	3.7	27.40
		64QAM	1/Inner right	22.26	3.7	25.96
		256QAM	1/edge right	20.30	3.7	24.00
	2 592.99	π/2 BPSK	1/Inner right	24.58	3.7	28.28
		QPSK	1/Inner right	24.57	3.7	28.27
		16QAM	1/Inner right	23.67	3.7	27.37
		64QAM	1/Inner right	22.26	3.7	25.96
		256QAM	1/Inner right	20.38	3.7	24.08
	2 679.99	π/2 BPSK	1/Inner right	24.64	3.7	28.34
		QPSK	1/Inner right	24.60	3.7	28.30
		16QAM	1/Inner right	23.73	3.7	27.43
		64QAM	1/Inner right	22.25	3.7	25.95
		256QAM	1/Inner right	20.40	3.7	24.10

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	2 546.01	QPSK	1/inner left	20.44	21.20	23.85	3.0	26.85
		16QAM	1/inner left	20.07	20.35	23.22	3.0	26.22
		64QAM	1/Mid	18.54	19.40	22.00	3.0	25.00
		256QAM	1/edge right	15.43	16.43	18.97	3.0	21.97
	2 592.99	QPSK	1/inner left	20.30	21.09	23.72	3.0	26.72
		16QAM	1/Mid	20.06	20.29	23.19	3.0	26.19
		64QAM	1/inner left	18.43	19.15	21.82	3.0	24.82
		256QAM	1/inner left	15.41	16.48	18.99	3.0	21.99
	2 640.00	QPSK	1/Inner right	20.48	21.08	23.80	3.0	26.80
		16QAM	1/Mid	20.05	20.21	23.14	3.0	26.14
		64QAM	1/inner left	18.40	19.39	21.93	3.0	24.93
		256QAM	1/Inner right	15.49	16.44	19.00	3.0	22.00
90	2 541.00	QPSK	1/inner left	20.47	21.07	23.79	3.0	26.79
		16QAM	1/inner left	20.03	20.25	23.15	3.0	26.15
		64QAM	1/Inner right	18.51	19.31	21.94	3.0	24.94
		256QAM	1/inner left	15.30	16.48	18.94	3.0	21.94
	2 592.99	QPSK	1/Mid	20.48	21.03	23.77	3.0	26.77
		16QAM	1/Mid	20.07	20.24	23.17	3.0	26.17
		64QAM	1/inner left	18.49	19.29	21.92	3.0	24.92
		256QAM	1/edge left	15.48	16.48	19.02	3.0	22.02
	2 644.98	QPSK	1/inner left	20.34	21.09	23.74	3.0	26.74
		16QAM	1/Inner right	20.01	20.23	23.13	3.0	26.13
		64QAM	1/inner left	18.49	19.12	21.83	3.0	24.83
		256QAM	1/edge right	15.43	16.49	19.00	3.0	22.00
80	2 536.02	QPSK	1/Mid	20.50	21.10	23.82	3.0	26.82
		16QAM	1/inner left	20.07	20.29	23.19	3.0	26.19
		64QAM	1/inner left	18.32	19.34	21.87	3.0	24.87
		256QAM	1/edge right	15.43	16.44	18.97	3.0	21.97
	2 592.99	QPSK	1/inner left	20.33	21.08	23.73	3.0	26.73
		16QAM	1/inner left	20.00	20.26	23.14	3.0	26.14
		64QAM	1/Mid	18.31	19.34	21.87	3.0	24.87
		256QAM	1/edge right	15.52	16.45	19.02	3.0	22.02
	2 649.99	QPSK	1/Mid	20.38	21.04	23.73	3.0	26.73
		16QAM	1/Inner right	20.08	20.26	23.18	3.0	26.18
		64QAM	1/Inner right	18.54	19.29	21.94	3.0	24.94
		256QAM	1/Mid	15.48	16.41	18.98	3.0	21.98

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
70	2 531.01	QPSK	1/inner left	20.27	21.09	23.71	3.0	26.71
		16QAM	1/Inner right	20.06	20.22	23.15	3.0	26.15
		64QAM	1/Inner right	18.45	19.31	21.91	3.0	24.91
		256QAM	1/edge right	15.55	16.49	19.06	3.0	22.06
	2 592.99	QPSK	1/Inner right	20.34	21.06	23.73	3.0	26.73
		16QAM	1/Mid	20.02	20.19	23.12	3.0	26.12
		64QAM	1/inner left	18.42	19.39	21.94	3.0	24.94
		256QAM	1/edge right	15.41	16.46	18.98	3.0	21.98
	2 655.00	QPSK	1/inner left	20.42	21.07	23.77	3.0	26.77
		16QAM	1/inner left	20.02	20.30	23.17	3.0	26.17
		64QAM	1/Inner right	18.52	19.21	21.89	3.0	24.89
		256QAM	1/edge left	15.53	16.50	19.05	3.0	22.05
60	2 526.00	QPSK	1/inner left	20.46	20.89	23.69	3.0	26.69
		16QAM	1/Inner right	20.06	20.23	23.16	3.0	26.16
		64QAM	1/Mid	18.47	19.39	21.96	3.0	24.96
		256QAM	1/Inner right	15.48	16.40	18.97	3.0	21.97
	2 592.99	QPSK	1/Inner right	20.47	20.98	23.74	3.0	26.74
		16QAM	1/inner left	20.06	20.27	23.18	3.0	26.18
		64QAM	1/Mid	18.51	19.39	21.98	3.0	24.98
		256QAM	1/inner left	15.44	16.45	18.98	3.0	21.98
	2 659.98	QPSK	1/Inner right	20.40	21.08	23.76	3.0	26.76
		16QAM	1/Inner right	20.03	20.13	23.09	3.0	26.09
		64QAM	1/inner left	18.43	19.39	21.95	3.0	24.95
		256QAM	1/Mid	15.44	16.43	18.97	3.0	21.97
50	2 521.02	QPSK	1/Inner right	20.45	20.92	23.70	3.0	26.70
		16QAM	1/Inner right	19.97	20.22	23.11	3.0	26.11
		64QAM	1/Mid	18.46	19.37	21.95	3.0	24.95
		256QAM	1/edge right	15.43	16.49	19.00	3.0	22.00
	2 592.99	QPSK	1/inner left	20.34	21.03	23.71	3.0	26.71
		16QAM	1/Mid	20.07	20.12	23.11	3.0	26.11
		64QAM	1/Mid	18.54	19.32	21.96	3.0	24.96
		256QAM	1/edge left	15.52	16.42	19.00	3.0	22.00
	2 664.99	QPSK	1/Inner right	20.42	21.09	23.78	3.0	26.78
		16QAM	1/Mid	20.08	20.22	23.16	3.0	26.16
		64QAM	1/Mid	18.49	19.12	21.83	3.0	24.83
		256QAM	1/inner left	15.44	16.48	19.00	3.0	22.00

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
40	2 516.01	QPSK	1/Mid	20.32	21.03	23.70	3.0	26.70
		16QAM	1/Mid	19.92	20.19	23.07	3.0	26.07
		64QAM	1/Inner right	18.46	19.30	21.91	3.0	24.91
		256QAM	1/Mid	15.38	16.43	18.95	3.0	21.95
	2 592.99	QPSK	1/Mid	20.47	20.99	23.75	3.0	26.75
		16QAM	1/Inner right	20.08	20.17	23.14	3.0	26.14
		64QAM	1/Mid	18.55	19.34	21.97	3.0	24.97
		256QAM	1/edge left	15.50	16.46	19.02	3.0	22.02
	2 670.00	QPSK	1/Inner right	20.35	21.04	23.72	3.0	26.72
		16QAM	1/Inner right	20.03	20.30	23.18	3.0	26.18
		64QAM	1/Inner right	18.49	19.30	21.92	3.0	24.92
		256QAM	1/edge left	15.47	16.43	18.99	3.0	21.99
30	2 511.00	QPSK	1/inner left	20.39	21.07	23.75	3.0	26.75
		16QAM	1/inner left	20.07	20.22	23.16	3.0	26.16
		64QAM	1/Mid	18.48	19.29	21.91	3.0	24.91
		256QAM	1/edge left	15.55	16.43	19.02	3.0	22.02
	2 592.99	QPSK	1/Mid	20.49	21.10	23.82	3.0	26.82
		16QAM	1/Inner right	19.91	20.17	23.05	3.0	26.05
		64QAM	1/Inner right	18.37	19.19	21.81	3.0	24.81
		256QAM	1/edge right	15.55	16.45	19.03	3.0	22.03
	2 674.98	QPSK	1/Inner right	20.42	21.33	23.91	3.0	26.91
		16QAM	1/inner left	20.06	20.48	23.29	3.0	26.29
		64QAM	1/Mid	18.53	19.67	22.15	3.0	25.15
		256QAM	1/edge left	15.52	16.76	19.19	3.0	22.19
20	2 506.02	QPSK	1/inner left	20.20	20.94	23.60	3.0	26.60
		16QAM	1/Inner right	19.79	20.16	22.99	3.0	25.99
		64QAM	1/Mid	18.20	19.32	21.81	3.0	24.81
		256QAM	1/edge left	15.22	16.42	18.87	3.0	21.87
	2 592.99	QPSK	1/inner left	20.38	20.95	23.68	3.0	26.68
		16QAM	1/inner left	20.07	20.22	23.16	3.0	26.16
		64QAM	1/inner left	18.32	19.40	21.90	3.0	24.90
		256QAM	1/edge left	15.55	16.44	19.03	3.0	22.03
	2 679.99	QPSK	1/Mid	20.19	21.22	23.75	3.0	26.75
		16QAM	1/Mid	19.79	20.51	23.18	3.0	26.18
		64QAM	1/Mid	18.16	19.55	21.92	3.0	24.92
		256QAM	1/edge left	15.18	16.76	19.05	3.0	22.05

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SISO: Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	2 590.00	π/2 BPSK	1/Inner right	25.13	3.1	28.23
		QPSK	1/inner left	25.00	3.1	28.10
		16QAM	1/Mid	24.40	3.1	27.50
		64QAM	1/inner left	22.82	3.1	25.92
		256QAM	1/Inner right	20.84	3.1	23.94
	2 595.00	π/2 BPSK	1/inner left	25.11	3.1	28.21
		QPSK	1/Inner right	25.00	3.1	28.10
		16QAM	1/Mid	24.35	3.1	27.45
		64QAM	1/Mid	22.87	3.1	25.97
		256QAM	1/edge left	21.48	3.1	24.58
	2 600.00	π/2 BPSK	1/Mid	25.05	3.1	28.15
		QPSK	1/inner left	25.00	3.1	28.10
		16QAM	1/inner left	24.33	3.1	27.43
		64QAM	1/Mid	22.89	3.1	25.99
		256QAM	1/edge left	21.51	3.1	24.61
30	2 585.00	π/2 BPSK	1/Mid	25.02	3.1	28.12
		QPSK	1/Mid	24.98	3.1	28.08
		16QAM	1/inner left	24.36	3.1	27.46
		64QAM	1/inner left	22.90	3.1	26.00
		256QAM	1/edge left	21.58	3.1	24.68
	2 595.00	π/2 BPSK	1/Mid	25.07	3.1	28.17
		QPSK	1/Inner right	24.98	3.1	28.08
		16QAM	1/inner left	24.39	3.1	27.49
		64QAM	1/inner left	22.88	3.1	25.98
		256QAM	1/edge left	21.51	3.1	24.61
	2 605.00	π/2 BPSK	1/Inner right	25.10	3.1	28.20
		QPSK	1/inner left	24.96	3.1	28.06
		16QAM	1/inner left	24.39	3.1	27.49
		64QAM	1/inner left	22.75	3.1	25.85
		256QAM	1/edge left	21.42	3.1	24.52
20	2 580.00	π/2 BPSK	1/inner left	25.10	3.1	28.20
		QPSK	1/Inner right	25.00	3.1	28.10
		16QAM	1/Mid	24.40	3.1	27.50
		64QAM	1/Mid	22.87	3.1	25.97
		256QAM	1/edge left	21.53	3.1	24.63
	2 595.00	π/2 BPSK	1/inner left	25.09	3.1	28.19
		QPSK	1/Mid	24.94	3.1	28.04
		16QAM	1/Inner right	24.36	3.1	27.46
		64QAM	1/inner left	22.90	3.1	26.00
		256QAM	1/edge left	21.57	3.1	24.67
	2 610.00	π/2 BPSK	1/inner left	25.05	3.1	28.15
		QPSK	1/Mid	25.00	3.1	28.10
		16QAM	1/inner left	24.33	3.1	27.43
		64QAM	1/Inner right	22.85	3.1	25.95
		256QAM	1/edge left	21.45	3.1	24.55

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	2 577.50	π/2 BPSK	1/Mid	25.05	3.1	28.15
		QPSK	1/Mid	24.97	3.1	28.07
		16QAM	1/inner left	24.36	3.1	27.46
		64QAM	1/inner left	22.88	3.1	25.98
		256QAM	1/edge left	21.44	3.1	24.54
	2 595.00	π/2 BPSK	1/inner left	25.10	3.1	28.20
		QPSK	1/inner left	24.96	3.1	28.06
		16QAM	1/Inner right	24.37	3.1	27.47
		64QAM	1/Mid	22.87	3.1	25.97
		256QAM	1/edge left	21.47	3.1	24.57
	2 612.50	π/2 BPSK	1/Inner right	25.07	3.1	28.17
		QPSK	1/inner left	25.00	3.1	28.10
		16QAM	1/Inner right	24.37	3.1	27.47
		64QAM	1/Mid	22.90	3.1	26.00
		256QAM	1/edge left	21.52	3.1	24.62
10	2 575.00	π/2 BPSK	1/Mid	25.10	3.1	28.20
		QPSK	1/Inner right	24.97	3.1	28.07
		16QAM	1/Mid	24.38	3.1	27.48
		64QAM	1/Inner right	22.86	3.1	25.96
		256QAM	1/edge left	21.55	3.1	24.65
	2 595.00	π/2 BPSK	1/inner left	25.04	3.1	28.14
		QPSK	1/inner left	24.96	3.1	28.06
		16QAM	1/inner left	24.40	3.1	27.50
		64QAM	1/Mid	22.80	3.1	25.90
		256QAM	1/edge left	21.56	3.1	24.66
	2 615.00	π/2 BPSK	1/Mid	25.08	3.1	28.18
		QPSK	1/Mid	24.99	3.1	28.09
		16QAM	1/Mid	24.36	3.1	27.46
		64QAM	1/Mid	22.85	3.1	25.95
		256QAM	1/edge left	21.43	3.1	24.53

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
40	2 590.00	QPSK	1/inner left	20.82	21.09	23.97	2.5	26.47
		16QAM	1/Inner right	20.40	20.70	23.56	2.5	26.06
		64QAM	1/Mid	18.84	19.18	22.02	2.5	24.52
		256QAM	1/Mid	15.72	16.42	19.09	2.5	21.59
	2 595.00	QPSK	1/inner left	20.75	21.14	23.96	2.5	26.46
		16QAM	1/Inner right	20.38	20.63	23.52	2.5	26.02
		64QAM	1/Inner right	18.86	19.21	22.05	2.5	24.55
		256QAM	1/inner left	15.74	16.44	19.11	2.5	21.61
	2 600.00	QPSK	1/inner left	20.63	21.14	23.90	2.5	26.40
		16QAM	1/inner left	20.40	20.68	23.55	2.5	26.05
		64QAM	1/Mid	18.85	19.28	22.08	2.5	24.58
		256QAM	1/inner left	15.78	16.44	19.13	2.5	21.63
30	2 585.00	QPSK	1/Mid	20.85	21.00	23.94	2.5	26.44
		16QAM	1/Inner right	20.39	20.49	23.45	2.5	25.95
		64QAM	1/inner left	18.88	19.19	22.05	2.5	24.55
		256QAM	1/inner left	15.74	16.45	19.12	2.5	21.62
	2 595.00	QPSK	1/inner left	20.74	21.14	23.95	2.5	26.45
		16QAM	1/Inner right	20.37	20.62	23.51	2.5	26.01
		64QAM	1/Mid	18.70	19.20	21.97	2.5	24.47
		256QAM	1/inner left	15.80	16.23	19.03	2.5	21.53
	2 605.00	QPSK	1/inner left	20.72	21.14	23.95	2.5	26.45
		16QAM	1/inner left	20.38	20.58	23.49	2.5	25.99
		64QAM	1/Mid	18.90	19.30	22.11	2.5	24.61
		256QAM	1/edge left	15.76	16.35	19.08	2.5	21.58
20	2 580.00	QPSK	1/Mid	20.89	21.03	23.97	2.5	26.47
		16QAM	1/inner left	20.37	20.63	23.51	2.5	26.01
		64QAM	1/inner left	18.71	19.23	21.99	2.5	24.49
		256QAM	1/inner left	15.71	16.44	19.10	2.5	21.60
	2 595.00	QPSK	1/inner left	20.69	21.14	23.93	2.5	26.43
		16QAM	1/inner left	20.34	20.69	23.53	2.5	26.03
		64QAM	1/Mid	18.86	19.22	22.05	2.5	24.55
		256QAM	1/Mid	15.75	16.41	19.10	2.5	21.60
	2 610.00	QPSK	1/inner left	20.83	21.14	24.00	2.5	26.50
		16QAM	1/Mid	20.37	20.58	23.49	2.5	25.99
		64QAM	1/inner left	18.78	19.30	22.06	2.5	24.56
		256QAM	1/Mid	15.79	16.39	19.11	2.5	21.61

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
15	2 577.50	QPSK	1/Mid	20.90	21.04	23.98	2.5	26.48
		16QAM	1/Mid	20.33	20.69	23.52	2.5	26.02
		64QAM	1/Mid	18.81	19.14	21.99	2.5	24.49
		256QAM	1/Mid	15.80	16.41	19.13	2.5	21.63
	2 595.00	QPSK	1/inner left	20.80	21.14	23.98	2.5	26.48
		16QAM	1/Inner right	20.39	20.62	23.52	2.5	26.02
		64QAM	1/inner left	18.71	19.23	21.99	2.5	24.49
		256QAM	1/edge right	15.70	16.38	19.06	2.5	21.56
	2 612.50	QPSK	1/inner left	20.88	21.14	24.02	2.5	26.52
		16QAM	1/Mid	20.35	20.65	23.51	2.5	26.01
		64QAM	1/Mid	18.90	19.23	22.08	2.5	24.58
		256QAM	1/Inner right	15.78	16.43	19.13	2.5	21.63
10	2 575.00	QPSK	1/inner left	20.64	21.14	23.91	2.5	26.41
		16QAM	1/inner left	20.34	20.68	23.52	2.5	26.02
		64QAM	1/Inner right	18.80	19.25	22.04	2.5	24.54
		256QAM	1/inner left	15.80	16.37	19.10	2.5	21.60
	2 595.00	QPSK	1/inner left	20.79	21.14	23.98	2.5	26.48
		16QAM	1/inner left	20.35	20.68	23.53	2.5	26.03
		64QAM	1/Mid	18.80	19.25	22.04	2.5	24.54
		256QAM	1/inner left	15.74	16.40	19.09	2.5	21.59
	2 615.00	QPSK	1/inner left	20.67	21.14	23.92	2.5	26.42
		16QAM	1/Inner right	20.34	20.57	23.47	2.5	25.97
		64QAM	1/inner left	18.83	19.00	21.93	2.5	24.43
		256QAM	1/inner left	15.77	16.40	19.11	2.5	21.61

7.1.15. NR Band n78 3 450 ~ 3 550 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	π/2 BPSK	1/inner left	22.78	3.2	25.98
		QPSK	1/inner left	22.89	3.2	26.09
		16QAM	1/inner left	21.95	3.2	25.15
		64QAM	1/inner left	20.23	3.2	23.43
		256QAM	1/inner left	18.32	3.2	21.52
90	3 495.00	π/2 BPSK	1/inner left	22.87	3.2	26.07
		QPSK	1/inner left	23.02	3.2	26.22
		16QAM	1/inner left	22.11	3.2	25.31
		64QAM	1/inner left	20.47	3.2	23.67
		256QAM	1/inner left	18.42	3.2	21.62
	3 500.01	π/2 BPSK	1/inner left	22.86	3.2	26.06
		QPSK	1/inner left	22.88	3.2	26.08
		16QAM	1/inner left	21.84	3.2	25.04
		64QAM	1/inner left	20.50	3.2	23.70
		256QAM	1/inner left	18.50	3.2	21.70
	3 504.99	π/2 BPSK	1/inner left	22.80	3.2	26.00
		QPSK	1/inner left	22.80	3.2	26.00
		16QAM	1/inner left	21.80	3.2	25.00
		64QAM	1/inner left	20.49	3.2	23.69
		256QAM	1/edge left	18.45	3.2	21.65
80	3 490.02	π/2 BPSK	1/inner left	23.38	3.2	26.58
		QPSK	1/inner left	23.16	3.2	26.36
		16QAM	1/inner left	22.22	3.2	25.42
		64QAM	1/inner left	20.56	3.2	23.76
		256QAM	1/inner left	18.78	3.2	21.98
	3 500.01	π/2 BPSK	1/inner left	23.12	3.2	26.32
		QPSK	1/inner left	23.10	3.2	26.30
		16QAM	1/inner left	21.96	3.2	25.16
		64QAM	1/inner left	20.58	3.2	23.78
		256QAM	1/edge left	19.12	3.2	22.32
	3 510.00	π/2 BPSK	1/inner left	23.00	3.2	26.20
		QPSK	1/inner left	22.96	3.2	26.16
		16QAM	1/inner left	21.98	3.2	25.18
		64QAM	1/inner left	20.02	3.2	23.22
		256QAM	1/edge left	18.45	3.2	21.65
70	3 485.01	π/2 BPSK	1/Mid	22.98	3.2	26.18
		QPSK	1/Mid	22.94	3.2	26.14
		16QAM	1/inner left	21.79	3.2	24.99
		64QAM	1/inner left	20.36	3.2	23.56
		256QAM	1/edge left	18.74	3.2	21.94
	3 500.01	π/2 BPSK	1/inner left	22.94	3.2	26.14
		QPSK	1/inner left	22.94	3.2	26.14
		16QAM	1/inner left	21.99	3.2	25.19
		64QAM	1/inner left	20.36	3.2	23.56
		256QAM	1/inner left	18.63	3.2	21.83
	3 515.01	π/2 BPSK	1/inner left	23.44	3.2	26.64
		QPSK	1/inner left	23.41	3.2	26.61
		16QAM	1/inner left	22.32	3.2	25.52
		64QAM	1/inner left	20.81	3.2	24.01
		256QAM	1/edge left	19.53	3.2	22.73

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	π/2 BPSK	1/inner left	23.64	3.2	26.84
		QPSK	1/inner left	23.45	3.2	26.65
		16QAM	1/Mid	22.45	3.2	25.65
		64QAM	1/Mid	21.20	3.2	24.40
		256QAM	1/Mid	19.42	3.2	22.62
	3 500.01	π/2 BPSK	1/inner left	23.54	3.2	26.74
		QPSK	1/inner left	23.45	3.2	26.65
		16QAM	1/inner left	22.71	3.2	25.91
		64QAM	1/inner left	20.93	3.2	24.13
		256QAM	1/inner left	18.89	3.2	22.09
	3 519.99	π/2 BPSK	1/inner left	23.39	3.2	26.59
		QPSK	1/inner left	23.55	3.2	26.75
		16QAM	1/inner left	22.44	3.2	25.64
		64QAM	1/inner left	20.45	3.2	23.65
		256QAM	1/edge left	19.06	3.2	22.26
50	3 475.02	π/2 BPSK	1/inner left	23.72	3.2	26.92
		QPSK	1/Mid	23.45	3.2	26.65
		16QAM	1/inner left	22.66	3.2	25.86
		64QAM	1/inner left	21.09	3.2	24.29
		256QAM	1/edge left	19.49	3.2	22.69
	3 500.01	π/2 BPSK	1/inner left	23.53	3.2	26.73
		QPSK	1/inner left	23.53	3.2	26.73
		16QAM	1/Mid	22.62	3.2	25.82
		64QAM	1/inner left	21.20	3.2	24.40
		256QAM	1/edge left	19.25	3.2	22.45
	3 525.00	π/2 BPSK	1/inner left	23.34	3.2	26.54
		QPSK	1/inner left	23.29	3.2	26.49
		16QAM	1/inner left	22.39	3.2	25.59
		64QAM	1/inner left	20.85	3.2	24.05
		256QAM	1/inner left	18.93	3.2	22.13
40	3 470.01	π/2 BPSK	1/inner left	23.94	3.2	27.14
		QPSK	1/inner left	23.80	3.2	27.00
		16QAM	1/Inner right	22.76	3.2	25.96
		64QAM	1/inner left	21.29	3.2	24.49
		256QAM	1/edge left	19.48	3.2	22.68
	3 500.01	π/2 BPSK	1/inner left	23.85	3.2	27.05
		QPSK	1/inner left	23.90	3.2	27.10
		16QAM	1/inner left	22.97	3.2	26.17
		64QAM	1/inner left	21.17	3.2	24.37
		256QAM	1/edge left	19.86	3.2	23.06
	3 530.01	π/2 BPSK	1/inner left	23.38	3.2	26.58
		QPSK	1/inner left	23.45	3.2	26.65
		16QAM	1/Inner right	22.34	3.2	25.54
		64QAM	1/Mid	21.17	3.2	24.37
		256QAM	1/edge left	19.12	3.2	22.32

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	π/2 BPSK	1/inner left	23.86	3.2	27.06
		QPSK	1/Inner right	23.82	3.2	27.02
		16QAM	1/Mid	22.81	3.2	26.01
		64QAM	1/inner left	21.34	3.2	24.54
		256QAM	1/edge left	19.63	3.2	22.83
	3 500.01	π/2 BPSK	1/inner left	23.95	3.2	27.15
		QPSK	1/inner left	23.79	3.2	26.99
		16QAM	1/Mid	22.75	3.2	25.95
		64QAM	1/inner left	21.19	3.2	24.39
		256QAM	1/edge left	19.64	3.2	22.84
	3 534.99	π/2 BPSK	1/Mid	23.31	3.2	26.51
		QPSK	1/inner left	23.06	3.2	26.26
		16QAM	1/Mid	22.33	3.2	25.53
		64QAM	1/Mid	20.84	3.2	24.04
		256QAM	1/inner left	18.76	3.2	21.96
20	3 460.02	π/2 BPSK	1/Inner right	23.83	3.2	27.03
		QPSK	1/inner left	23.82	3.2	27.02
		16QAM	1/Inner right	22.67	3.2	25.87
		64QAM	1/Mid	21.39	3.2	24.59
		256QAM	1/edge left	19.62	3.2	22.82
	3 500.01	π/2 BPSK	1/inner left	23.60	3.2	26.80
		QPSK	1/inner left	23.63	3.2	26.83
		16QAM	1/inner left	22.88	3.2	26.08
		64QAM	1/Mid	21.30	3.2	24.50
		256QAM	1/Mid	19.25	3.2	22.45
	3 540.00	π/2 BPSK	1/inner left	23.21	3.2	26.41
		QPSK	1/Inner right	23.07	3.2	26.27
		16QAM	1/inner left	22.10	3.2	25.30
		64QAM	1/inner left	20.57	3.2	23.77
		256QAM	1/Mid	18.51	3.2	21.71
15	3 457.50	π/2 BPSK	1/Inner right	23.87	3.2	27.07
		QPSK	1/Mid	23.93	3.2	27.13
		16QAM	1/Inner right	23.19	3.2	26.39
		64QAM	1/Inner right	21.43	3.2	24.63
		256QAM	1/edge left	19.35	3.2	22.55
	3 500.01	π/2 BPSK	1/inner left	23.75	3.2	26.95
		QPSK	1/inner left	23.55	3.2	26.75
		16QAM	1/inner left	22.58	3.2	25.78
		64QAM	1/inner left	21.10	3.2	24.30
		256QAM	1/edge left	19.20	3.2	22.40
	3 542.49	π/2 BPSK	1/inner left	23.00	3.2	26.20
		QPSK	1/Inner right	23.08	3.2	26.28
		16QAM	1/Mid	22.24	3.2	25.44
		64QAM	1/inner left	20.60	3.2	23.80
		256QAM	1/Mid	18.42	3.2	21.62

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
10	3 455.01	π/2 BPSK	1/inner left	23.59	3.2	26.79
		QPSK	1/Mid	23.65	3.2	26.85
		16QAM	1/inner left	22.70	3.2	25.90
		64QAM	1/Mid	21.21	3.2	24.41
		256QAM	1/inner left	19.58	3.2	22.78
	3 500.01	π/2 BPSK	1/Mid	23.46	3.2	26.66
		QPSK	1/inner left	23.56	3.2	26.76
		16QAM	1/inner left	22.45	3.2	25.65
		64QAM	1/inner left	21.05	3.2	24.25
		256QAM	1/Inner right	19.33	3.2	22.53
	3 545.01	π/2 BPSK	1/Mid	23.13	3.2	26.33
		QPSK	1/Mid	23.23	3.2	26.43
		16QAM	1/inner left	22.20	3.2	25.40
		64QAM	1/inner left	20.93	3.2	24.13
		256QAM	1/inner left	18.69	3.2	21.89

MIMO: External Antenna 1 + External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power(dBm)	Ext Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	QPSK	1/inner left	18.83	18.54	21.70	2.8	24.50
		16QAM	1/inner left	18.23	18.23	21.24	2.8	24.04
		64QAM	1/inner left	16.84	16.75	19.81	2.8	22.61
		256QAM	1/inner left	13.67	13.75	16.72	2.8	19.52
90	3 495.00	QPSK	1/inner left	18.64	18.50	21.58	2.8	24.38
		16QAM	1/inner left	18.01	18.30	21.17	2.8	23.97
		64QAM	1/inner left	16.79	16.75	19.78	2.8	22.58
		256QAM	1/Mid	13.65	13.77	16.72	2.8	19.52
	3 500.01	QPSK	1/inner left	18.69	18.67	21.69	2.8	24.49
		16QAM	1/inner left	18.01	18.11	21.07	2.8	23.87
		64QAM	1/Mid	16.84	16.60	19.73	2.8	22.53
		256QAM	1/inner left	13.67	13.65	16.67	2.8	19.47
	3 504.99	QPSK	1/inner left	18.80	18.47	21.65	2.8	24.45
		16QAM	1/inner left	18.18	18.07	21.14	2.8	23.94
		64QAM	1/Mid	16.76	16.78	19.78	2.8	22.58
		256QAM	1/Mid	13.76	13.75	16.77	2.8	19.57
80	3 490.02	QPSK	1/inner left	18.64	18.59	21.63	2.8	24.43
		16QAM	1/Mid	18.17	18.16	21.18	2.8	23.98
		64QAM	1/inner left	16.85	16.75	19.81	2.8	22.61
		256QAM	1/inner left	13.69	13.52	16.62	2.8	19.42
	3 500.01	QPSK	1/inner left	18.64	18.65	21.66	2.8	24.46
		16QAM	1/inner left	18.04	18.24	21.15	2.8	23.95
		64QAM	1/Mid	16.85	16.65	19.76	2.8	22.56
		256QAM	1/Mid	13.72	13.75	16.75	2.8	19.55
	3 510.00	QPSK	1/inner left	18.71	18.42	21.58	2.8	24.38
		16QAM	1/inner left	17.98	18.18	21.09	2.8	23.89
		64QAM	1/inner left	16.77	16.79	19.79	2.8	22.59
		256QAM	1/inner left	13.65	13.73	16.70	2.8	19.50
70	3 485.01	QPSK	1/Mid	18.79	18.65	21.73	2.8	24.53
		16QAM	1/Mid	18.02	18.11	21.08	2.8	23.88
		64QAM	1/Mid	16.87	16.70	19.80	2.8	22.60
		256QAM	1/Mid	13.79	13.65	16.73	2.8	19.53
	3 500.01	QPSK	1/Mid	18.69	18.49	21.60	2.8	24.40
		16QAM	1/inner left	18.14	18.27	21.22	2.8	24.02
		64QAM	1/Mid	16.77	16.73	19.76	2.8	22.56
		256QAM	1/inner left	13.80	13.68	16.75	2.8	19.55
	3 515.01	QPSK	1/inner left	18.79	18.65	21.73	2.8	24.53
		16QAM	1/Mid	18.14	18.07	21.12	2.8	23.92
		64QAM	1/Mid	16.63	16.72	19.69	2.8	22.49
		256QAM	1/inner left	13.66	13.79	16.74	2.8	19.54

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power(dBm)	Ext Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	QPSK	1/inner left	18.72	18.68	21.71	2.8	24.51
		16QAM	1/Mid	18.12	18.15	21.15	2.8	23.95
		64QAM	1/Mid	16.78	16.54	19.67	2.8	22.47
		256QAM	1/inner left	13.73	13.66	16.71	2.8	19.51
	3 500.01	QPSK	1/Mid	18.79	18.67	21.74	2.8	24.54
		16QAM	1/Mid	17.97	18.24	21.12	2.8	23.92
		64QAM	1/inner left	16.66	16.71	19.70	2.8	22.50
		256QAM	1/inner left	13.63	13.79	16.72	2.8	19.52
	3 519.99	QPSK	1/inner left	18.60	18.65	21.64	2.8	24.44
		16QAM	1/Mid	18.16	18.25	21.22	2.8	24.02
		64QAM	1/Mid	16.84	16.50	19.68	2.8	22.48
		256QAM	1/Mid	13.68	13.75	16.73	2.8	19.53
50	3 475.02	QPSK	1/inner left	18.63	18.61	21.63	2.8	24.43
		16QAM	1/Mid	17.95	18.25	21.11	2.8	23.91
		64QAM	1/inner left	16.77	16.64	19.72	2.8	22.52
		256QAM	1/Mid	13.77	13.80	16.80	2.8	19.60
	3 500.01	QPSK	1/Mid	18.53	18.64	21.60	2.8	24.40
		16QAM	1/Mid	17.98	18.15	21.08	2.8	23.88
		64QAM	1/inner left	16.83	16.68	19.77	2.8	22.57
		256QAM	1/inner left	13.68	13.57	16.64	2.8	19.44
	3 525.00	QPSK	1/inner left	18.76	18.55	21.67	2.8	24.47
		16QAM	1/Mid	18.01	18.25	21.14	2.8	23.94
		64QAM	1/Mid	16.87	16.72	19.81	2.8	22.61
		256QAM	1/Inner right	13.68	13.77	16.74	2.8	19.54
40	3 470.01	QPSK	1/inner left	18.70	18.63	21.68	2.8	24.48
		16QAM	1/inner left	18.20	18.26	21.24	2.8	24.04
		64QAM	1/inner left	16.84	16.70	19.78	2.8	22.58
		256QAM	1/inner left	13.69	13.73	16.72	2.8	19.52
	3 500.01	QPSK	1/Inner right	18.58	18.70	21.65	2.8	24.45
		16QAM	1/Mid	18.12	18.30	21.22	2.8	24.02
		64QAM	1/Inner right	16.87	16.58	19.74	2.8	22.54
		256QAM	1/Mid	13.78	13.55	16.68	2.8	19.48
	3 529.98	QPSK	1/inner left	18.79	18.67	21.74	2.8	24.54
		16QAM	1/Inner right	18.19	18.13	21.17	2.8	23.97
		64QAM	1/Inner right	16.88	16.76	19.83	2.8	22.63
		256QAM	1/Inner right	13.78	13.71	16.76	2.8	19.56

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power(dBm)	Ext Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	QPSK	1/inner left	18.70	18.64	21.68	2.8	24.48
		16QAM	1/Mid	18.13	18.20	21.18	2.8	23.98
		64QAM	1/inner left	16.82	16.76	19.80	2.8	22.60
		256QAM	1/Mid	13.59	13.71	16.66	2.8	19.46
	3 500.01	QPSK	1/Mid	18.80	18.46	21.64	2.8	24.44
		16QAM	1/Mid	18.17	18.22	21.21	2.8	24.01
		64QAM	1/Mid	16.75	16.80	19.79	2.8	22.59
		256QAM	1/Inner right	13.77	13.66	16.73	2.8	19.53
	3 534.99	QPSK	1/Inner right	18.79	18.63	21.72	2.8	24.52
		16QAM	1/Inner right	18.06	18.19	21.14	2.8	23.94
		64QAM	1/inner left	16.66	16.60	19.64	2.8	22.44
		256QAM	1/inner left	13.63	13.70	16.68	2.8	19.48
20	3 460.01	QPSK	1/Inner right	18.70	18.56	21.64	2.8	24.44
		16QAM	1/Inner right	18.07	18.20	21.15	2.8	23.95
		64QAM	1/inner left	16.74	16.79	19.78	2.8	22.58
		256QAM	1/Inner right	13.78	13.78	16.79	2.8	19.59
	3 500.01	QPSK	1/inner left	18.73	18.68	21.72	2.8	24.52
		16QAM	1/Inner right	18.12	18.28	21.21	2.8	24.01
		64QAM	1/Inner right	16.78	16.76	19.78	2.8	22.58
		256QAM	1/inner left	13.77	13.61	16.70	2.8	19.50
	3 540.00	QPSK	1/Inner right	18.70	18.70	21.71	2.8	24.51
		16QAM	1/inner left	18.16	18.26	21.22	2.8	24.02
		64QAM	1/Mid	16.90	16.59	19.76	2.8	22.56
		256QAM	1/Inner right	13.66	13.73	16.71	2.8	19.51
15	3 457.50	QPSK	1/inner left	18.61	18.68	21.66	2.8	24.46
		16QAM	1/Mid	18.00	18.30	21.16	2.8	23.96
		64QAM	1/inner left	16.80	16.72	19.77	2.8	22.57
		256QAM	1/Mid	13.75	13.67	16.72	2.8	19.52
	3 500.01	QPSK	1/Mid	18.64	18.68	21.67	2.8	24.47
		16QAM	1/Inner right	18.16	18.27	21.23	2.8	24.03
		64QAM	1/Mid	16.74	16.61	19.69	2.8	22.49
		256QAM	1/Mid	13.79	13.55	16.68	2.8	19.48
	3 542.49	QPSK	1/Mid	18.76	18.62	21.70	2.8	24.50
		16QAM	1/Mid	17.92	18.24	21.09	2.8	23.89
		64QAM	1/Mid	16.85	16.75	19.81	2.8	22.61
		256QAM	1/Inner right	13.79	13.68	16.75	2.8	19.55
10	3 455.01	QPSK	1/Mid	18.64	18.47	21.57	2.8	24.37
		16QAM	1/Inner right	18.20	18.30	21.26	2.8	24.06
		64QAM	1/Mid	16.88	16.73	19.82	2.8	22.62
		256QAM	1/inner left	13.74	13.52	16.64	2.8	19.44
	3 500.01	QPSK	1/Mid	18.78	18.64	21.72	2.8	24.52
		16QAM	1/Inner right	18.12	18.25	21.20	2.8	24.00
		64QAM	1/inner left	16.86	16.79	19.84	2.8	22.64
		256QAM	1/Inner right	13.67	13.78	16.74	2.8	19.54
	3 545.01	QPSK	1/Mid	18.77	18.52	21.66	2.8	24.46
		16QAM	1/Inner right	18.18	18.18	21.19	2.8	23.99
		64QAM	1/Inner right	16.81	16.77	19.80	2.8	22.60
		256QAM	1/Mid	13.75	13.65	16.71	2.8	19.51

7.1.16. NR Band n78 3 700 ~ 3 800 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	π/2 BPSK	1/Mid	23.68	3.9	27.58
		QPSK	1/Mid	23.68	3.9	27.58
		16QAM	1/Mid	22.63	3.9	26.53
		64QAM	1/Inner right	21.24	3.9	25.14
		256QAM	1/Inner right	19.26	3.9	23.16
90	3 745.02	π/2 BPSK	1/Mid	23.57	3.9	27.47
		QPSK	1/Mid	23.54	3.9	27.44
		16QAM	1/Mid	22.71	3.9	26.61
		64QAM	1/Mid	20.95	3.9	24.85
		256QAM	1/Mid	19.24	3.9	23.14
	3 750.00	π/2 BPSK	1/Mid	23.76	3.9	27.66
		QPSK	1/Inner right	23.61	3.9	27.51
		16QAM	1/inner left	22.63	3.9	26.53
		64QAM	1/Inner right	21.45	3.9	25.35
		256QAM	1/inner left	19.21	3.9	23.11
	3 754.98	π/2 BPSK	1/Inner right	23.74	3.9	27.64
		QPSK	1/Inner right	23.69	3.9	27.59
		16QAM	1/Mid	22.90	3.9	26.80
		64QAM	1/inner left	21.23	3.9	25.13
		256QAM	1/Mid	19.18	3.9	23.08
80	3 740.01	π/2 BPSK	1/Mid	23.75	3.9	27.65
		QPSK	1/inner left	23.57	3.9	27.47
		16QAM	1/inner left	22.80	3.9	26.70
		64QAM	1/Mid	21.19	3.9	25.09
		256QAM	1/inner left	19.10	3.9	23.00
	3 750.00	π/2 BPSK	1/Mid	23.71	3.9	27.61
		QPSK	1/Mid	23.57	3.9	27.47
		16QAM	1/Mid	22.76	3.9	26.66
		64QAM	1/Mid	21.28	3.9	25.18
		256QAM	1/Mid	19.25	3.9	23.15
	3 759.99	π/2 BPSK	1/Mid	23.72	3.9	27.62
		QPSK	1/inner left	23.54	3.9	27.44
		16QAM	1/Inner right	22.68	3.9	26.58
		64QAM	1/Mid	21.30	3.9	25.20
		256QAM	1/Inner right	19.40	3.9	23.30
70	3 735.00	π/2 BPSK	1/Mid	23.63	3.9	27.53
		QPSK	1/Mid	23.56	3.9	27.46
		16QAM	1/Inner right	22.71	3.9	26.61
		64QAM	1/inner left	21.15	3.9	25.05
		256QAM	1/Inner right	19.53	3.9	23.43
	3 750.00	π/2 BPSK	1/Mid	23.53	3.9	27.43
		QPSK	1/Mid	23.79	3.9	27.69
		16QAM	1/Mid	22.81	3.9	26.71
		64QAM	1/Mid	21.23	3.9	25.13
		256QAM	1/edge left	19.08	3.9	22.98
	3 765.00	π/2 BPSK	1/Mid	23.61	3.9	27.51
		QPSK	1/inner left	23.66	3.9	27.56
		16QAM	1/inner left	22.79	3.9	26.69
		64QAM	1/Inner right	21.05	3.9	24.95
		256QAM	1/edge left	19.39	3.9	23.29

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
60	3 730.02	π/2 BPSK	1/Mid	23.76	3.9	27.66
		QPSK	1/Mid	23.65	3.9	27.55
		16QAM	1/inner left	22.67	3.9	26.57
		64QAM	1/Mid	21.03	3.9	24.93
		256QAM	1/Mid	19.26	3.9	23.16
	3 750.00	π/2 BPSK	1/Mid	23.86	3.9	27.76
		QPSK	1/Mid	23.75	3.9	27.65
		16QAM	1/Mid	22.98	3.9	26.88
		64QAM	1/Mid	21.55	3.9	25.45
		256QAM	1/Mid	19.38	3.9	23.28
	3 769.98	π/2 BPSK	1/Mid	23.72	3.9	27.62
		QPSK	1/Mid	23.78	3.9	27.68
		16QAM	1/inner left	22.92	3.9	26.82
		64QAM	1/inner left	21.18	3.9	25.08
		256QAM	1/inner left	19.26	3.9	23.16
50	3 725.01	π/2 BPSK	1/Mid	23.67	3.9	27.57
		QPSK	1/Mid	23.74	3.9	27.64
		16QAM	1/Inner right	22.80	3.9	26.70
		64QAM	1/Mid	21.21	3.9	25.11
		256QAM	1/Inner right	19.52	3.9	23.42
	3 750.00	π/2 BPSK	1/inner left	23.77	3.9	27.67
		QPSK	1/Mid	23.73	3.9	27.63
		16QAM	1/Mid	22.91	3.9	26.81
		64QAM	1/inner left	21.28	3.9	25.18
		256QAM	1/Mid	19.17	3.9	23.07
	3 774.99	π/2 BPSK	1/Mid	23.81	3.9	27.71
		QPSK	1/inner left	23.73	3.9	27.63
		16QAM	1/inner left	23.01	3.9	26.91
		64QAM	1/inner left	21.45	3.9	25.35
		256QAM	1/edge left	19.33	3.9	23.23
40	3 720.00	π/2 BPSK	1/Inner right	24.08	3.9	27.98
		QPSK	1/Inner right	24.11	3.9	28.01
		16QAM	1/Inner right	22.98	3.9	26.88
		64QAM	1/Mid	21.53	3.9	25.43
		256QAM	1/Inner right	19.50	3.9	23.40
	3 750.00	π/2 BPSK	1/inner left	24.09	3.9	27.99
		QPSK	1/inner left	24.23	3.9	28.13
		16QAM	1/inner left	23.09	3.9	26.99
		64QAM	1/Inner right	21.93	3.9	25.83
		256QAM	1/inner left	19.80	3.9	23.70
	3 780.00	π/2 BPSK	1/Inner right	24.06	3.9	27.96
		QPSK	1/inner left	24.04	3.9	27.94
		16QAM	1/Inner right	22.90	3.9	26.80
		64QAM	1/Inner right	21.75	3.9	25.65
		256QAM	1/edge right	19.54	3.9	23.44

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
30	3 715.02	π/2 BPSK	1/Inner right	23.98	3.9	27.88
		QPSK	1/Inner right	24.11	3.9	28.01
		16QAM	1/inner left	22.86	3.9	26.76
		64QAM	1/Inner right	21.15	3.9	25.05
		256QAM	1/inner left	19.54	3.9	23.44
	3 750.00	π/2 BPSK	1/Mid	23.98	3.9	27.88
		QPSK	1/Mid	23.87	3.9	27.77
		16QAM	1/Mid	23.23	3.9	27.13
		64QAM	1/Mid	21.70	3.9	25.60
		256QAM	1/Inner right	19.83	3.9	23.73
	3 785.01	π/2 BPSK	1/inner left	23.89	3.9	27.79
		QPSK	1/Inner right	23.84	3.9	27.74
		16QAM	1/inner left	23.02	3.9	26.92
		64QAM	1/Inner right	21.68	3.9	25.58
		256QAM	1/edge left	19.57	3.9	23.47
20	3 710.01	π/2 BPSK	1/Inner right	23.86	3.9	27.76
		QPSK	1/Inner right	23.92	3.9	27.82
		16QAM	1/Inner right	22.90	3.9	26.80
		64QAM	1/Inner right	21.59	3.9	25.49
		256QAM	1/inner left	19.87	3.9	23.77
	3 750	π/2 BPSK	1/Mid	23.95	3.9	27.85
		QPSK	1/inner left	24.13	3.9	28.03
		16QAM	1/Mid	23.05	3.9	26.95
		64QAM	1/Mid	21.37	3.9	25.27
		256QAM	1/Inner right	19.57	3.9	23.47
	3 789.99	π/2 BPSK	1/Mid	23.82	3.9	27.72
		QPSK	1/inner left	23.86	3.9	27.76
		16QAM	1/inner left	22.94	3.9	26.84
		64QAM	1/inner left	21.55	3.9	25.45
		256QAM	1/edge right	19.49	3.9	23.39
15	3 707.52	π/2 BPSK	1/inner left	23.56	3.9	27.46
		QPSK	1/Inner right	23.63	3.9	27.53
		16QAM	1/Inner right	22.79	3.9	26.69
		64QAM	1/inner left	21.59	3.9	25.49
		256QAM	1/inner left	19.53	3.9	23.43
	3 750	π/2 BPSK	1/Inner right	23.74	3.9	27.64
		QPSK	1/inner left	24.05	3.9	27.95
		16QAM	1/inner left	23.09	3.9	26.99
		64QAM	1/Inner right	21.55	3.9	25.45
		256QAM	1/Inner right	19.60	3.9	23.50
	3 792.48	π/2 BPSK	1/Inner right	24.26	3.9	28.16
		QPSK	1/inner left	24.19	3.9	28.09
		16QAM	1/Mid	23.13	3.9	27.03
		64QAM	1/inner left	21.57	3.9	25.47
		256QAM	1/edge right	19.97	3.9	23.87

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
10	3 705.00	π/2 BPSK	1/Mid	23.79	3.9	27.69
		QPSK	1/Mid	23.94	3.9	27.84
		16QAM	1/inner left	22.88	3.9	26.78
		64QAM	1/inner left	21.54	3.9	25.44
		256QAM	1/inner left	19.32	3.9	23.22
	3 750.00	π/2 BPSK	1/Mid	23.98	3.9	27.88
		QPSK	1/inner left	24.06	3.9	27.96
		16QAM	1/Mid	22.93	3.9	26.83
		64QAM	1/Mid	21.58	3.9	25.48
		256QAM	1/edge left	19.65	3.9	23.55
	3 795.00	π/2 BPSK	1/Inner right	23.71	3.9	27.61
		QPSK	1/Mid	23.73	3.9	27.63
		16QAM	1/Inner right	22.86	3.9	26.76
		64QAM	1/Mid	21.35	3.9	25.25
		256QAM	1/Mid	18.99	3.9	22.89

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	QPSK	1/Mid	19.54	19.25	22.41	3.6	26.01
		16QAM	1/Inner right	18.70	18.49	21.61	3.6	25.21
		64QAM	1/Inner right	17.32	17.15	20.25	3.6	23.85
		256QAM	1/Inner right	14.57	14.35	17.47	3.6	21.07
90	3 745.02	QPSK	1/Mid	19.60	19.07	22.35	3.6	25.95
		16QAM	1/Mid	18.72	18.70	21.72	3.6	25.32
		64QAM	1/Inner right	17.41	17.15	20.29	3.6	23.89
		256QAM	1/Mid	14.54	14.39	17.48	3.6	21.08
	3 750.00	QPSK	1/Mid	19.37	19.28	22.34	3.6	25.94
		16QAM	1/Mid	18.67	18.74	21.72	3.6	25.32
		64QAM	1/Mid	17.49	17.40	20.46	3.6	24.06
		256QAM	1/inner left	14.43	14.36	17.41	3.6	21.01
	3 754.98	QPSK	1/Mid	19.55	19.28	22.43	3.6	26.03
		16QAM	1/Mid	18.61	18.75	21.69	3.6	25.29
		64QAM	1/Mid	17.43	17.18	20.32	3.6	23.92
		256QAM	1/edge left	14.51	14.40	17.47	3.6	21.07
80	3 740.01	QPSK	1/inner left	19.41	19.36	22.40	3.6	26.00
		16QAM	1/Inner right	18.71	18.76	21.75	3.6	25.35
		64QAM	1/Mid	17.48	17.22	20.36	3.6	23.96
		256QAM	1/inner left	14.56	14.25	17.42	3.6	21.02
	3 750.00	QPSK	1/inner left	19.38	19.28	22.34	3.6	25.94
		16QAM	1/Inner right	18.56	18.75	21.67	3.6	25.27
		64QAM	1/Inner right	17.37	17.28	20.34	3.6	23.94
		256QAM	1/Mid	14.50	14.38	17.45	3.6	21.05
	3 759.99	QPSK	1/Inner right	19.60	19.14	22.39	3.6	25.99
		16QAM	1/Mid	18.59	18.66	21.64	3.6	25.24
		64QAM	1/Mid	17.43	17.32	20.39	3.6	23.99
		256QAM	1/Mid	14.53	14.40	17.48	3.6	21.08
70	3 735.00	QPSK	1/Mid	19.58	19.31	22.46	3.6	26.06
		16QAM	1/Inner right	18.80	18.54	21.68	3.6	25.28
		64QAM	1/edge left	17.56	16.98	20.29	3.6	23.89
		256QAM	1/edge right	14.54	14.37	17.47	3.6	21.07
	3 750.00	QPSK	1/Mid	19.52	19.36	22.45	3.6	26.05
		16QAM	1/inner left	18.50	18.76	21.64	3.6	25.24
		64QAM	1/Inner right	17.46	17.39	20.44	3.6	24.04
		256QAM	1/Inner right	14.53	14.35	17.45	3.6	21.05
	3 765.00	QPSK	1/Inner right	19.36	19.18	22.28	3.6	25.88
		16QAM	1/Mid	18.80	18.63	21.73	3.6	25.33
		64QAM	1/Inner right	17.44	17.23	20.35	3.6	23.95
		256QAM	1/edge left	14.47	14.30	17.40	3.6	21.00

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 730.02	QPSK	1/Inner right	19.42	19.32	22.38	3.6	25.98
		16QAM	1/Inner right	18.65	18.62	21.65	3.6	25.25
		64QAM	1/Inner right	17.41	17.31	20.37	3.6	23.97
		256QAM	1/Mid	14.60	14.27	17.45	3.6	21.05
	3 750.00	QPSK	1/Mid	19.54	19.25	22.41	3.6	26.01
		16QAM	1/Mid	18.53	18.70	21.63	3.6	25.23
		64QAM	1/Mid	17.30	17.36	20.34	3.6	23.94
		256QAM	1/inner left	14.43	14.36	17.41	3.6	21.01
	3 769.98	QPSK	1/inner left	19.57	19.36	22.48	3.6	26.08
		16QAM	1/Mid	18.54	18.72	21.64	3.6	25.24
		64QAM	1/Mid	17.42	17.37	20.41	3.6	24.01
		256QAM	1/edge left	14.57	14.38	17.49	3.6	21.09
50	3 725.01	QPSK	1/inner left	19.45	19.33	22.40	3.6	26.00
		16QAM	1/Mid	18.60	18.75	21.69	3.6	25.29
		64QAM	1/Mid	17.48	17.24	20.37	3.6	23.97
		256QAM	1/edge left	14.38	14.37	17.39	3.6	20.99
	3 750.00	QPSK	1/Mid	19.52	19.26	22.40	3.6	26.00
		16QAM	1/inner left	18.73	18.76	21.76	3.6	25.36
		64QAM	1/inner left	17.50	17.13	20.33	3.6	23.93
		256QAM	1/Mid	14.54	14.37	17.47	3.6	21.07
	3 774.99	QPSK	1/Mid	19.50	19.20	22.36	3.6	25.96
		16QAM	1/Mid	18.78	18.67	21.74	3.6	25.34
		64QAM	1/Mid	17.14	17.40	20.28	3.6	23.88
		256QAM	1/Inner right	14.56	14.39	17.49	3.6	21.09
40	3 720.00	QPSK	1/Inner right	19.49	19.23	22.37	3.6	25.97
		16QAM	1/inner left	18.76	18.69	21.74	3.6	25.34
		64QAM	1/inner left	17.26	17.33	20.31	3.6	23.91
		256QAM	1/Mid	14.56	14.33	17.46	3.6	21.06
	3 750.00	QPSK	1/Mid	19.59	19.35	22.48	3.6	26.08
		16QAM	1/Inner right	18.64	18.64	21.65	3.6	25.25
		64QAM	1/Inner right	17.31	17.38	20.36	3.6	23.96
		256QAM	1/Mid	14.48	14.39	17.45	3.6	21.05
	3 780.00	QPSK	1/Inner right	19.58	19.25	22.43	3.6	26.03
		16QAM	1/Inner right	18.70	18.76	21.74	3.6	25.34
		64QAM	1/edge left	17.52	17.05	20.30	3.6	23.90
		256QAM	1/Mid	14.60	14.39	17.51	3.6	21.11

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 715.02	QPSK	1/Inner right	19.53	19.29	22.42	3.6	26.02
		16QAM	1/inner left	18.62	18.76	21.70	3.6	25.30
		64QAM	1/Mid	17.49	17.33	20.42	3.6	24.02
		256QAM	1/Inner right	14.59	14.37	17.49	3.6	21.09
	3 750.00	QPSK	1/inner left	19.59	19.20	22.41	3.6	26.01
		16QAM	1/inner left	18.77	18.60	21.70	3.6	25.30
		64QAM	1/Mid	17.18	17.29	20.25	3.6	23.85
		256QAM	1/inner left	14.53	14.26	17.41	3.6	21.01
	3 785.01	QPSK	1/inner left	19.46	19.32	22.40	3.6	26.00
		16QAM	1/Mid	18.71	18.71	21.72	3.6	25.32
		64QAM	1/inner left	17.21	17.39	20.31	3.6	23.91
		256QAM	1/edge left	14.42	14.25	17.35	3.6	20.95
20	3 710.01	QPSK	1/inner left	19.54	19.14	22.35	3.6	25.95
		16QAM	1/Mid	18.68	18.74	21.72	3.6	25.32
		64QAM	1/Inner right	17.44	17.26	20.36	3.6	23.96
		256QAM	1/inner left	14.59	14.35	17.48	3.6	21.08
	3 750.00	QPSK	1/Mid	19.41	19.25	22.34	3.6	25.94
		16QAM	1/inner left	18.51	18.62	21.58	3.6	25.18
		64QAM	1/Inner right	17.50	17.36	20.44	3.6	24.04
		256QAM	1/edge left	14.58	14.28	17.44	3.6	21.04
	3 789.99	QPSK	1/Mid	19.47	19.35	22.42	3.6	26.02
		16QAM	1/inner left	18.51	18.76	21.65	3.6	25.25
		64QAM	1/inner left	17.37	17.26	20.33	3.6	23.93
		256QAM	1/Mid	14.59	14.40	17.51	3.6	21.11
15	3 707.52	QPSK	1/Mid	19.34	19.33	22.35	3.6	25.95
		16QAM	1/inner left	18.73	18.70	21.73	3.6	25.33
		64QAM	1/Inner right	17.43	17.17	20.31	3.6	23.91
		256QAM	1/edge left	14.57	14.38	17.49	3.6	21.09
	3 750.00	QPSK	1/inner left	19.41	19.24	22.34	3.6	25.94
		16QAM	1/Inner right	18.62	18.71	21.68	3.6	25.28
		64QAM	1/edge left	17.60	17.05	20.34	3.6	23.94
		256QAM	1/edge left	14.55	14.40	17.49	3.6	21.09
	3 792.48	QPSK	1/Mid	19.57	19.17	22.38	3.6	25.98
		16QAM	1/inner left	18.77	18.64	21.72	3.6	25.32
		64QAM	1/inner left	17.46	17.14	20.31	3.6	23.91
		256QAM	1/Inner right	14.49	14.39	17.45	3.6	21.05
10	3 705.00	QPSK	1/Inner right	19.46	19.36	22.42	3.6	26.02
		16QAM	1/Inner right	18.66	18.72	21.70	3.6	25.30
		64QAM	1/edge left	17.60	17.03	20.33	3.6	23.93
		256QAM	1/Mid	14.52	14.33	17.44	3.6	21.04
	3 750.00	QPSK	1/Mid	19.48	19.23	22.37	3.6	25.97
		16QAM	1/inner left	18.75	18.70	21.74	3.6	25.34
		64QAM	1/inner left	17.49	17.29	20.40	3.6	24.00
		256QAM	1/Inner right	14.56	14.37	17.48	3.6	21.08
	3 795.00	QPSK	1/Inner right	19.56	19.31	22.45	3.6	26.05
		16QAM	1/Inner right	18.79	18.66	21.74	3.6	25.34
		64QAM	1/Inner right	17.22	17.23	20.24	3.6	23.84
		256QAM	1/inner left	14.33	14.39	17.37	3.6	20.97

7.1.17. NR Band n77 3 450 ~ 3 550 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	π/2 BPSK	1/inner left	23.47	3.2	26.67
		QPSK	1/inner left	23.52	3.2	26.72
		16QAM	1/inner left	22.36	3.2	25.56
		64QAM	1/Mid	20.90	3.2	24.10
		256QAM	1/edge left	19.13	3.2	22.33
90	3 495.00	π/2 BPSK	1/inner left	23.48	3.2	26.68
		QPSK	1/inner left	23.38	3.2	26.58
		16QAM	1/inner left	22.23	3.2	25.43
		64QAM	1/inner left	21.18	3.2	24.38
		256QAM	1/edge left	19.11	3.2	22.31
	3 500.01	π/2 BPSK	1/inner left	23.63	3.2	26.83
		QPSK	1/inner left	23.45	3.2	26.65
		16QAM	1/inner left	22.59	3.2	25.79
		64QAM	1/inner left	21.16	3.2	24.36
		256QAM	1/edge left	19.38	3.2	22.58
	3 504.99	π/2 BPSK	1/inner left	23.56	3.2	26.76
		QPSK	1/inner left	23.37	3.2	26.57
		16QAM	1/inner left	22.43	3.2	25.63
		64QAM	1/inner left	20.97	3.2	24.17
		256QAM	1/edge left	18.90	3.2	22.10
80	3 490.02	π/2 BPSK	1/inner left	23.62	3.2	26.82
		QPSK	1/inner left	23.69	3.2	26.89
		16QAM	1/inner left	22.70	3.2	25.90
		64QAM	1/Mid	21.23	3.2	24.43
		256QAM	1/edge left	19.05	3.2	22.25
	3 500.01	π/2 BPSK	1/inner left	23.48	3.2	26.68
		QPSK	1/inner left	23.45	3.2	26.65
		16QAM	1/inner left	22.54	3.2	25.74
		64QAM	1/inner left	21.16	3.2	24.36
		256QAM	1/edge left	19.38	3.2	22.58
	3 510.00	π/2 BPSK	1/inner left	23.65	3.2	26.85
		QPSK	1/inner left	23.45	3.2	26.65
		16QAM	1/inner left	22.45	3.2	25.65
		64QAM	1/inner left	21.08	3.2	24.28
		256QAM	1/inner left	19.13	3.2	22.33
70	3 485.01	π/2 BPSK	1/inner left	23.55	3.2	26.75
		QPSK	1/inner left	23.68	3.2	26.88
		16QAM	1/inner left	22.71	3.2	25.91
		64QAM	1/inner left	21.11	3.2	24.31
		256QAM	1/Mid	19.13	3.2	22.33
	3 500.01	π/2 BPSK	1/inner left	23.52	3.2	26.72
		QPSK	1/inner left	23.44	3.2	26.64
		16QAM	1/inner left	22.73	3.2	25.93
		64QAM	1/inner left	20.99	3.2	24.19
		256QAM	1/edge left	19.25	3.2	22.45
	3 515.01	π/2 BPSK	1/inner left	23.31	3.2	26.51
		QPSK	1/inner left	23.35	3.2	26.55
		16QAM	1/inner left	22.52	3.2	25.72
		64QAM	1/inner left	20.67	3.2	23.87
		256QAM	1/inner left	18.95	3.2	22.15

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	π/2 BPSK	1/Mid	23.68	3.2	26.88
		QPSK	1/inner left	23.76	3.2	26.96
		16QAM	1/Mid	22.84	3.2	26.04
		64QAM	1/Mid	21.10	3.2	24.30
		256QAM	1/edge left	19.33	3.2	22.53
	3 500.01	π/2 BPSK	1/inner left	23.80	3.2	27.00
		QPSK	1/inner left	23.68	3.2	26.88
		16QAM	1/inner left	22.94	3.2	26.14
		64QAM	1/inner left	21.19	3.2	24.39
		256QAM	1/inner left	19.53	3.2	22.73
	3 519.99	π/2 BPSK	1/inner left	23.60	3.2	26.80
		QPSK	1/inner left	23.43	3.2	26.63
		16QAM	1/inner left	22.19	3.2	25.39
		64QAM	1/inner left	21.16	3.2	24.36
		256QAM	1/inner left	19.29	3.2	22.49
50	3 475.02	π/2 BPSK	1/inner left	23.73	3.2	26.93
		QPSK	1/inner left	23.88	3.2	27.08
		16QAM	1/inner left	22.85	3.2	26.05
		64QAM	1/Mid	21.10	3.2	24.30
		256QAM	1/edge left	19.58	3.2	22.78
	3 500.01	π/2 BPSK	1/inner left	23.71	3.2	26.91
		QPSK	1/inner left	23.79	3.2	26.99
		16QAM	1/inner left	22.84	3.2	26.04
		64QAM	1/inner left	21.24	3.2	24.44
		256QAM	1/edge left	19.35	3.2	22.55
	3 525.00	π/2 BPSK	1/inner left	23.53	3.2	26.73
		QPSK	1/inner left	23.61	3.2	26.81
		16QAM	1/inner left	22.39	3.2	25.59
		64QAM	1/inner left	20.94	3.2	24.14
		256QAM	1/edge left	19.03	3.2	22.23
40	3 470.01	π/2 BPSK	1/inner left	23.88	3.2	27.08
		QPSK	1/inner left	24.07	3.2	27.27
		16QAM	1/Inner right	23.20	3.2	26.40
		64QAM	1/inner left	21.37	3.2	24.57
		256QAM	1/edge left	19.84	3.2	23.04
	3 500.01	π/2 BPSK	1/inner left	23.87	3.2	27.07
		QPSK	1/inner left	24.10	3.2	27.30
		16QAM	1/inner left	23.19	3.2	26.39
		64QAM	1/inner left	21.72	3.2	24.92
		256QAM	1/edge left	19.48	3.2	22.68
	3 529.98	π/2 BPSK	1/inner left	23.46	3.2	26.66
		QPSK	1/inner left	23.63	3.2	26.83
		16QAM	1/inner left	22.36	3.2	25.56
		64QAM	1/inner left	21.14	3.2	24.34
		256QAM	1/edge left	19.10	3.2	22.30

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	π/2 BPSK	1/inner left	24.07	3.2	27.27
		QPSK	1/Inner right	23.89	3.2	27.09
		16QAM	1/inner left	23.12	3.2	26.32
		64QAM	1/inner left	21.50	3.2	24.70
		256QAM	1/edge left	19.69	3.2	22.89
	3 500.01	π/2 BPSK	1/inner left	23.80	3.2	27.00
		QPSK	1/inner left	23.65	3.2	26.85
		16QAM	1/inner left	22.81	3.2	26.01
		64QAM	1/Mid	21.59	3.2	24.79
		256QAM	1/inner left	19.82	3.2	23.02
	3 534.99	π/2 BPSK	1/inner left	23.51	3.2	26.71
		QPSK	1/inner left	23.25	3.2	26.45
		16QAM	1/inner left	22.68	3.2	25.88
		64QAM	1/inner left	20.93	3.2	24.13
		256QAM	1/inner left	19.21	3.2	22.41
20	3 460.01	π/2 BPSK	1/inner left	23.82	3.2	27.02
		QPSK	1/Inner right	23.80	3.2	27.00
		16QAM	1/inner left	23.14	3.2	26.34
		64QAM	1/Mid	21.43	3.2	24.63
		256QAM	1/edge left	19.97	3.2	23.17
	3 500.01	π/2 BPSK	1/inner left	23.74	3.2	26.94
		QPSK	1/Mid	23.72	3.2	26.92
		16QAM	1/inner left	22.87	3.2	26.07
		64QAM	1/inner left	21.40	3.2	24.60
		256QAM	1/edge left	19.49	3.2	22.69
	3 540.00	π/2 BPSK	1/Mid	23.21	3.2	26.41
		QPSK	1/Mid	23.08	3.2	26.28
		16QAM	1/inner left	22.31	3.2	25.51
		64QAM	1/Mid	21.17	3.2	24.37
		256QAM	1/Mid	19.06	3.2	22.26
15	3 457.50	π/2 BPSK	1/inner left	23.78	3.2	26.98
		QPSK	1/Mid	23.59	3.2	26.79
		16QAM	1/inner left	22.86	3.2	26.06
		64QAM	1/inner left	21.14	3.2	24.34
		256QAM	1/Inner right	19.49	3.2	22.69
	3 500.01	π/2 BPSK	1/inner left	23.67	3.2	26.87
		QPSK	1/inner left	23.89	3.2	27.09
		16QAM	1/inner left	23.04	3.2	26.24
		64QAM	1/Mid	21.46	3.2	24.66
		256QAM	1/edge right	19.46	3.2	22.66
	3 542.49	π/2 BPSK	1/Inner right	23.42	3.2	26.62
		QPSK	1/Mid	23.60	3.2	26.80
		16QAM	1/inner left	22.20	3.2	25.40
		64QAM	1/Mid	21.00	3.2	24.20
		256QAM	1/inner left	19.00	3.2	22.20

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
10	3 455.01	π/2 BPSK	1/Inner right	23.76	3.2	26.96
		QPSK	1/Inner right	23.96	3.2	27.16
		16QAM	1/inner left	22.78	3.2	25.98
		64QAM	1/Mid	21.58	3.2	24.78
		256QAM	1/Inner right	19.42	3.2	22.62
	3 500.01	π/2 BPSK	1/inner left	23.66	3.2	26.86
		QPSK	1/inner left	23.77	3.2	26.97
		16QAM	1/Inner right	22.99	3.2	26.19
		64QAM	1/inner left	21.16	3.2	24.36
		256QAM	1/Mid	19.15	3.2	22.35
	3 545.01	π/2 BPSK	1/inner left	23.03	3.2	26.23
		QPSK	1/inner left	23.23	3.2	26.43
		16QAM	1/Inner right	21.98	3.2	25.18
		64QAM	1/inner left	20.74	3.2	23.94
		256QAM	1/Mid	18.90	3.2	22.10

MIMO: External Antenna 1 + External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	QPSK	1/inner left	18.99	18.71	21.86	2.8	24.66
		16QAM	1/inner left	18.26	18.23	21.26	2.8	24.06
		64QAM	1/edge left	16.93	16.88	19.92	2.8	22.72
		256QAM	1/edge left	13.92	13.93	16.94	2.8	19.74
90	3 495.00	QPSK	1/Mid	18.93	18.84	21.90	2.8	24.70
		16QAM	1/inner left	18.20	18.19	21.21	2.8	24.01
		64QAM	1/edge left	16.90	17.00	19.96	2.8	22.76
		256QAM	1/edge left	13.80	14.03	16.93	2.8	19.73
	3 500.01	QPSK	1/Mid	18.89	18.83	21.87	2.8	24.67
		16QAM	1/Mid	18.22	18.25	21.25	2.8	24.05
		64QAM	1/Mid	16.75	17.15	19.96	2.8	22.76
		256QAM	1/inner left	13.89	13.96	16.94	2.8	19.74
	3 504.99	QPSK	1/inner left	18.97	18.89	21.94	2.8	24.74
		16QAM	1/Mid	18.22	18.21	21.23	2.8	24.03
		64QAM	1/inner left	16.54	17.10	19.84	2.8	22.64
		256QAM	1/Mid	13.85	13.98	16.93	2.8	19.73
80	3 490.02	QPSK	1/inner left	18.73	18.97	21.86	2.8	24.66
		16QAM	1/inner left	18.29	18.27	21.29	2.8	24.09
		64QAM	1/edge left	16.90	16.86	19.89	2.8	22.69
		256QAM	1/inner left	13.82	14.01	16.93	2.8	19.73
	3 500.01	QPSK	1/Mid	18.88	18.84	21.87	2.8	24.67
		16QAM	1/inner left	18.18	18.28	21.24	2.8	24.04
		64QAM	1/inner left	16.61	17.11	19.88	2.8	22.68
		256QAM	1/Mid	13.72	13.99	16.87	2.8	19.67
	3 510.00	QPSK	1/Mid	18.81	18.94	21.89	2.8	24.69
		16QAM	1/Mid	18.25	18.28	21.28	2.8	24.08
		64QAM	1/Mid	16.74	17.12	19.94	2.8	22.74
		256QAM	1/Mid	13.81	14.02	16.93	2.8	19.73
70	3 485.01	QPSK	1/inner left	18.91	18.88	21.91	2.8	24.71
		16QAM	1/inner left	18.07	18.26	21.18	2.8	23.98
		64QAM	1/edge left	16.86	16.92	19.90	2.8	22.70
		256QAM	1/Mid	13.73	13.97	16.86	2.8	19.66
	3 500.01	QPSK	1/inner left	18.81	18.98	21.91	2.8	24.71
		16QAM	1/inner left	18.30	18.20	21.26	2.8	24.06
		64QAM	1/Mid	16.61	17.04	19.84	2.8	22.64
		256QAM	1/Mid	13.79	14.08	16.95	2.8	19.75
	3 515.01	QPSK	1/inner left	18.86	18.91	21.90	2.8	24.70
		16QAM	1/inner left	18.11	18.30	21.22	2.8	24.02
		64QAM	1/inner left	16.68	17.19	19.95	2.8	22.75
		256QAM	1/edge left	13.77	13.93	16.86	2.8	19.66

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	QPSK	1/Mid	18.88	18.93	21.92	2.8	24.72
		16QAM	1/Mid	18.27	18.29	21.29	2.8	24.09
		64QAM	1/edge left	16.79	16.89	19.85	2.8	22.65
		256QAM	1/edge left	13.65	13.95	16.81	2.8	19.61
	3 500.01	QPSK	1/inner left	18.81	18.98	21.91	2.8	24.71
		16QAM	1/Mid	18.05	18.23	21.15	2.8	23.95
		64QAM	1/edge left	16.90	16.92	19.92	2.8	22.72
		256QAM	1/edge left	13.83	14.06	16.96	2.8	19.76
	3 519.99	QPSK	1/Mid	18.94	18.83	21.90	2.8	24.70
		16QAM	1/inner left	18.17	18.09	21.14	2.8	23.94
		64QAM	1/edge left	16.92	16.84	19.89	2.8	22.69
		256QAM	1/edge left	13.89	13.98	16.95	2.8	19.75
50	3 475.02	QPSK	1/inner left	18.82	19.00	21.92	2.8	24.72
		16QAM	1/Mid	18.01	18.28	21.16	2.8	23.96
		64QAM	1/edge left	16.88	16.90	19.90	2.8	22.70
		256QAM	1/Mid	13.87	13.94	16.92	2.8	19.72
	3 500.01	QPSK	1/inner left	18.84	18.85	21.86	2.8	24.66
		16QAM	1/Mid	18.20	18.28	21.25	2.8	24.05
		64QAM	1/edge left	16.76	17.00	19.89	2.8	22.69
		256QAM	1/inner left	13.87	14.02	16.96	2.8	19.76
	3 525.00	QPSK	1/Mid	18.91	18.87	21.90	2.8	24.70
		16QAM	1/inner left	18.24	18.10	21.18	2.8	23.98
		64QAM	1/Inner right	16.79	17.12	19.97	2.8	22.77
		256QAM	1/Inner right	13.90	14.05	16.99	2.8	19.79
40	3 470.01	QPSK	1/inner left	18.97	18.83	21.91	2.8	24.71
		16QAM	1/Mid	18.25	18.20	21.24	2.8	24.04
		64QAM	1/Inner right	16.80	17.07	19.95	2.8	22.75
		256QAM	1/Inner right	13.87	14.03	16.96	2.8	19.76
	3 500.01	QPSK	1/inner left	18.99	18.96	21.99	2.8	24.79
		16QAM	1/Mid	18.30	18.22	21.27	2.8	24.07
		64QAM	1/Inner right	16.75	17.18	19.98	2.8	22.78
		256QAM	1/edge left	13.84	13.96	16.91	2.8	19.71
	3 529.98	QPSK	1/inner left	18.92	18.84	21.89	2.8	24.69
		16QAM	1/inner left	18.05	18.14	21.11	2.8	23.91
		64QAM	1/Mid	16.74	17.17	19.97	2.8	22.77
		256QAM	1/edge left	13.73	14.09	16.92	2.8	19.72

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	QPSK	1/inner left	18.82	18.86	21.85	2.8	24.65
		16QAM	1/Inner right	18.24	18.26	21.26	2.8	24.06
		64QAM	1/Inner right	16.67	17.14	19.92	2.8	22.72
		256QAM	1/edge left	13.72	14.06	16.90	2.8	19.70
	3 500.01	QPSK	1/Inner right	18.99	18.90	21.96	2.8	24.76
		16QAM	1/inner left	18.06	18.26	21.17	2.8	23.97
		64QAM	1/Mid	16.77	17.18	19.99	2.8	22.79
		256QAM	1/inner left	13.88	14.04	16.97	2.8	19.77
	3 534.99	QPSK	1/Mid	18.95	18.98	21.98	2.8	24.78
		16QAM	1/inner left	18.13	18.12	21.14	2.8	23.94
		64QAM	1/edge left	16.81	16.95	19.89	2.8	22.69
		256QAM	1/Inner right	13.81	14.09	16.96	2.8	19.76
20	3 460.01	QPSK	1/inner left	18.97	18.77	21.88	2.8	24.68
		16QAM	1/Inner right	18.26	18.30	21.29	2.8	24.09
		64QAM	1/Mid	16.71	17.12	19.93	2.8	22.73
		256QAM	1/inner left	13.88	13.99	16.95	2.8	19.75
	3 500.01	QPSK	1/inner left	18.99	18.82	21.92	2.8	24.72
		16QAM	1/Inner right	18.27	18.20	21.25	2.8	24.05
		64QAM	1/Inner right	16.70	17.11	19.92	2.8	22.72
		256QAM	1/inner left	13.76	14.08	16.93	2.8	19.73
	3 540.00	QPSK	1/inner left	18.75	18.94	21.86	2.8	24.66
		16QAM	1/Mid	18.27	18.28	21.29	2.8	24.09
		64QAM	1/inner left	16.50	17.16	19.85	2.8	22.65
		256QAM	1/Mid	13.80	14.05	16.94	2.8	19.74
15	3 457.50	QPSK	1/inner left	18.98	18.72	21.86	2.8	24.66
		16QAM	1/inner left	18.25	18.24	21.26	2.8	24.06
		64QAM	1/edge left	16.77	16.94	19.87	2.8	22.67
		256QAM	1/Mid	13.90	13.97	16.95	2.8	19.75
	3 500.01	QPSK	1/Mid	18.93	18.82	21.89	2.8	24.69
		16QAM	1/Mid	18.13	18.17	21.16	2.8	23.96
		64QAM	1/edge left	16.90	16.98	19.95	2.8	22.75
		256QAM	1/Mid	13.65	14.04	16.86	2.8	19.66
	3 542.49	QPSK	1/Mid	18.89	19.00	21.96	2.8	24.76
		16QAM	1/Inner right	18.27	18.05	21.17	2.8	23.97
		64QAM	1/edge left	16.92	16.88	19.91	2.8	22.71
		256QAM	1/edge left	13.84	14.05	16.96	2.8	19.76

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
10	3 455.01	QPSK	1/Inner right	18.89	18.87	21.89	2.8	24.69
		16QAM	1/Mid	18.22	18.25	21.25	2.8	24.05
		64QAM	1/edge left	16.88	16.95	19.93	2.8	22.73
		256QAM	1/Inner right	13.85	13.85	16.86	2.8	19.66
	3 500.01	QPSK	1/Inner right	18.82	18.95	21.90	2.8	24.70
		16QAM	1/Inner right	18.18	18.28	21.24	2.8	24.04
		64QAM	1/Inner right	16.67	17.04	19.87	2.8	22.67
		256QAM	1/inner left	13.85	14.08	16.98	2.8	19.78
	3 545.01	QPSK	1/Mid	18.87	18.96	21.93	2.8	24.73
		16QAM	1/Inner right	18.30	18.21	21.27	2.8	24.07
		64QAM	1/Inner right	16.79	17.15	19.98	2.8	22.78
		256QAM	1/inner left	13.85	14.00	16.94	2.8	19.74

7.1.18. NR Band n77 3 700 ~ 3 980 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	π/2 BPSK	1/Mid	23.60	3.9	27.50
		QPSK	1/Mid	23.56	3.9	27.46
		16QAM	1/Mid	22.47	3.9	26.37
		64QAM	1/Inner right	20.87	3.9	24.77
		256QAM	1/Inner right	19.18	3.9	23.08
	3 840.00	π/2 BPSK	1/Mid	23.67	3.9	27.57
		QPSK	1/Mid	23.67	3.9	27.57
		16QAM	1/Inner right	22.90	3.9	26.80
		64QAM	1/Inner right	21.35	3.9	25.25
		256QAM	1/inner left	19.34	3.9	23.24
	3 930.00	π/2 BPSK	1/inner left	23.60	3.9	27.50
		QPSK	1/inner left	23.70	3.9	27.60
		16QAM	1/Mid	22.82	3.9	26.72
		64QAM	1/inner left	21.18	3.9	25.08
		256QAM	1/edge left	19.17	3.9	23.07
90	3 745.02	π/2 BPSK	1/Mid	23.61	3.9	27.51
		QPSK	1/Mid	23.55	3.9	27.45
		16QAM	1/Mid	22.52	3.9	26.42
		64QAM	1/Mid	21.27	3.9	25.17
		256QAM	1/inner left	19.13	3.9	23.03
	3 840.00	π/2 BPSK	1/Mid	23.79	3.9	27.69
		QPSK	1/Mid	23.62	3.9	27.52
		16QAM	1/Mid	22.69	3.9	26.59
		64QAM	1/Inner right	21.29	3.9	25.19
		256QAM	1/inner left	19.25	3.9	23.15
	3 934.98	π/2 BPSK	1/Inner right	23.49	3.9	27.39
		QPSK	1/Mid	23.46	3.9	27.36
		16QAM	1/Mid	22.46	3.9	26.36
		64QAM	1/inner left	21.17	3.9	25.07
		256QAM	1/inner left	19.04	3.9	22.94
80	3 740.01	π/2 BPSK	1/Inner right	23.54	3.9	27.44
		QPSK	1/Mid	23.64	3.9	27.54
		16QAM	1/Mid	22.50	3.9	26.40
		64QAM	1/Mid	21.06	3.9	24.96
		256QAM	1/Mid	19.22	3.9	23.12
	3 840.00	π/2 BPSK	1/Mid	23.64	3.9	27.54
		QPSK	1/Inner right	23.62	3.9	27.52
		16QAM	1/inner left	22.71	3.9	26.61
		64QAM	1/inner left	21.21	3.9	25.11
		256QAM	1/Mid	19.14	3.9	23.04
	3 939.99	π/2 BPSK	1/inner left	23.67	3.9	27.57
		QPSK	1/inner left	23.68	3.9	27.58
		16QAM	1/inner left	22.78	3.9	26.68
		64QAM	1/inner left	21.24	3.9	25.14
		256QAM	1/edge left	19.24	3.9	23.14

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
70	3 735.00	π/2 BPSK	1/Mid	23.62	3.9	27.52
		QPSK	1/Mid	23.56	3.9	27.46
		16QAM	1/Mid	22.61	3.9	26.51
		64QAM	1/Mid	21.32	3.9	25.22
		256QAM	1/Mid	19.06	3.9	22.96
	3 840.00	π/2 BPSK	1/inner left	23.78	3.9	27.68
		QPSK	1/Mid	23.73	3.9	27.63
		16QAM	1/Inner right	22.89	3.9	26.79
		64QAM	1/inner left	21.35	3.9	25.25
		256QAM	1/edge left	19.29	3.9	23.19
	3 945.00	π/2 BPSK	1/Mid	23.58	3.9	27.48
		QPSK	1/inner left	23.74	3.9	27.64
		16QAM	1/inner left	22.83	3.9	26.73
		64QAM	1/Inner right	21.19	3.9	25.09
		256QAM	1/inner left	19.27	3.9	23.17
60	3 730.02	π/2 BPSK	1/Mid	23.73	3.9	27.63
		QPSK	1/Inner right	23.55	3.9	27.45
		16QAM	1/Mid	22.67	3.9	26.57
		64QAM	1/Mid	20.92	3.9	24.82
		256QAM	1/Mid	19.36	3.9	23.26
	3 840.00	π/2 BPSK	1/Mid	23.75	3.9	27.65
		QPSK	1/Inner right	23.78	3.9	27.68
		16QAM	1/Inner right	22.84	3.9	26.74
		64QAM	1/Inner right	21.21	3.9	25.11
		256QAM	1/Mid	19.53	3.9	23.43
	3 949.98	π/2 BPSK	1/inner left	23.65	3.9	27.55
		QPSK	1/Inner right	23.72	3.9	27.62
		16QAM	1/inner left	22.75	3.9	26.65
		64QAM	1/inner left	21.53	3.9	25.43
		256QAM	1/Mid	19.37	3.9	23.27
50	3 725.01	π/2 BPSK	1/Mid	23.71	3.9	27.61
		QPSK	1/inner left	23.66	3.9	27.56
		16QAM	1/Mid	22.77	3.9	26.67
		64QAM	1/Mid	21.14	3.9	25.04
		256QAM	1/Mid	19.31	3.9	23.21
	3 840.00	π/2 BPSK	1/Inner right	23.99	3.9	27.89
		QPSK	1/Mid	24.04	3.9	27.94
		16QAM	1/Mid	22.94	3.9	26.84
		64QAM	1/inner left	21.40	3.9	25.30
		256QAM	1/edge right	19.33	3.9	23.23
	3 954.99	π/2 BPSK	1/inner left	23.68	3.9	27.58
		QPSK	1/inner left	23.61	3.9	27.51
		16QAM	1/inner left	22.80	3.9	26.70
		64QAM	1/Inner right	21.17	3.9	25.07
		256QAM	1/edge left	19.17	3.9	23.07

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	3 720.00	π/2 BPSK	1/inner left	23.95	3.9	27.85
		QPSK	1/Inner right	23.88	3.9	27.78
		16QAM	1/Mid	22.96	3.9	26.86
		64QAM	1/inner left	21.30	3.9	25.20
		256QAM	1/inner left	19.40	3.9	23.30
	3 840.00	π/2 BPSK	1/inner left	24.14	3.9	28.04
		QPSK	1/inner left	24.10	3.9	28.00
		16QAM	1/inner left	23.05	3.9	26.95
		64QAM	1/inner left	21.47	3.9	25.37
		256QAM	1/edge left	19.62	3.9	23.52
	3 960.00	π/2 BPSK	1/inner left	23.85	3.9	27.75
		QPSK	1/Inner right	23.83	3.9	27.73
		16QAM	1/Mid	22.90	3.9	26.80
		64QAM	1/Inner right	21.52	3.9	25.42
		256QAM	1/edge left	19.63	3.9	23.53
30	3 715.02	π/2 BPSK	1/Mid	23.81	3.9	27.71
		QPSK	1/Inner right	23.75	3.9	27.65
		16QAM	1/Inner right	22.73	3.9	26.63
		64QAM	1/Mid	21.22	3.9	25.12
		256QAM	1/Inner right	19.61	3.9	23.51
	3 840.00	π/2 BPSK	1/inner left	24.10	3.9	28.00
		QPSK	1/inner left	24.18	3.9	28.08
		16QAM	1/inner left	23.11	3.9	27.01
		64QAM	1/Mid	21.60	3.9	25.50
		256QAM	1/edge right	19.74	3.9	23.64
	3 964.98	π/2 BPSK	1/Inner right	23.80	3.9	27.70
		QPSK	1/inner left	23.97	3.9	27.87
		16QAM	1/Mid	22.89	3.9	26.79
		64QAM	1/Mid	21.50	3.9	25.40
		256QAM	1/edge left	19.66	3.9	23.56
20	3 710.01	π/2 BPSK	1/Inner right	23.81	3.9	27.71
		QPSK	1/Mid	24.00	3.9	27.90
		16QAM	1/Inner right	22.83	3.9	26.73
		64QAM	1/Inner right	21.14	3.9	25.04
		256QAM	1/Inner right	19.24	3.9	23.14
	3 840.00	π/2 BPSK	1/Inner right	23.88	3.9	27.78
		QPSK	1/inner left	24.13	3.9	28.03
		16QAM	1/Mid	23.00	3.9	26.90
		64QAM	1/Mid	21.62	3.9	25.52
		256QAM	1/Inner right	19.78	3.9	23.68
	3 969.99	π/2 BPSK	1/Mid	23.81	3.9	27.71
		QPSK	1/Inner right	23.86	3.9	27.76
		16QAM	1/Mid	22.82	3.9	26.72
		64QAM	1/Mid	21.43	3.9	25.33
		256QAM	1/inner left	19.49	3.9	23.39

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	3 707.52	π/2 BPSK	1/Inner right	23.97	3.9	27.87
		QPSK	1/Mid	23.85	3.9	27.75
		16QAM	1/Mid	22.87	3.9	26.77
		64QAM	1/Mid	21.65	3.9	25.55
		256QAM	1/edge right	19.99	3.9	23.89
	3 840.00	π/2 BPSK	1/Inner right	24.12	3.9	28.02
		QPSK	1/Mid	24.19	3.9	28.09
		16QAM	1/inner left	23.12	3.9	27.02
		64QAM	1/inner left	21.56	3.9	25.46
		256QAM	1/inner left	19.71	3.9	23.61
	3 972.48	π/2 BPSK	1/inner left	23.72	3.9	27.62
		QPSK	1/inner left	23.89	3.9	27.79
		16QAM	1/Mid	22.92	3.9	26.82
		64QAM	1/Mid	21.24	3.9	25.14
		256QAM	1/Inner right	19.20	3.9	23.10
10	3 705.00	π/2 BPSK	1/Mid	23.48	3.9	27.38
		QPSK	1/Inner right	23.62	3.9	27.52
		16QAM	1/Mid	22.29	3.9	26.19
		64QAM	1/inner left	21.09	3.9	24.99
		256QAM	1/Inner right	18.88	3.9	22.78
	3 840.00	π/2 BPSK	1/inner left	23.82	3.9	27.72
		QPSK	1/Mid	24.05	3.9	27.95
		16QAM	1/Mid	23.23	3.9	27.13
		64QAM	1/inner left	21.33	3.9	25.23
		256QAM	1/edge right	19.54	3.9	23.44
	3 975.00	π/2 BPSK	1/Mid	23.87	3.9	27.77
		QPSK	1/inner left	23.72	3.9	27.62
		16QAM	1/inner left	22.85	3.9	26.75
		64QAM	1/Mid	21.46	3.9	25.36
		256QAM	1/edge left	19.38	3.9	23.28

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 840.00	QPSK	1/Inner right	19.24	19.23	22.25	3.6	25.85
		16QAM	1/inner left	18.61	18.32	21.48	3.6	25.08
		64QAM	1/Inner right	17.47	17.14	20.32	3.6	23.92
		256QAM	1/edge right	14.20	14.28	17.25	3.6	20.85
90	3 745.02	QPSK	1/Inner right	19.47	19.07	22.28	3.6	25.88
		16QAM	1/Inner right	18.70	18.43	21.58	3.6	25.18
		64QAM	1/inner left	17.33	17.25	20.30	3.6	23.90
		256QAM	1/edge left	14.44	14.21	17.34	3.6	20.94
	3 840.00	QPSK	1/inner left	19.46	19.21	22.35	3.6	25.95
		16QAM	1/Inner right	18.61	18.32	21.48	3.6	25.08
		64QAM	1/inner left	17.48	17.29	20.40	3.6	24.00
		256QAM	1/edge right	14.24	14.24	17.25	3.6	20.85
	3 934.98	QPSK	1/inner left	19.29	19.22	22.27	3.6	25.87
		16QAM	1/inner left	18.62	18.43	21.54	3.6	25.14
		64QAM	1/inner left	17.46	17.05	20.27	3.6	23.87
		256QAM	1/edge left	14.38	14.23	17.32	3.6	20.92
80	3 740.01	QPSK	1/inner left	19.40	19.25	22.34	3.6	25.94
		16QAM	1/inner left	18.53	18.47	21.51	3.6	25.11
		64QAM	1/inner left	17.34	17.17	20.27	3.6	23.87
		256QAM	1/edge right	14.44	14.19	17.33	3.6	20.93
	3 840.00	QPSK	1/Inner right	19.34	18.97	22.17	3.6	25.77
		16QAM	1/inner left	18.56	18.25	21.42	3.6	25.02
		64QAM	1/inner left	17.38	17.15	20.28	3.6	23.88
		256QAM	1/edge right	14.36	14.28	17.33	3.6	20.93
	3 939.99	QPSK	1/inner left	19.33	19.22	22.29	3.6	25.89
		16QAM	1/inner left	18.47	18.46	21.48	3.6	25.08
		64QAM	1/inner left	17.42	17.09	20.27	3.6	23.87
		256QAM	1/edge left	14.33	14.29	17.32	3.6	20.92
70	3 735.00	QPSK	1/Inner right	19.22	19.27	22.26	3.6	25.86
		16QAM	1/inner left	18.62	18.48	21.56	3.6	25.16
		64QAM	1/Inner right	17.47	17.03	20.27	3.6	23.87
		256QAM	1/edge right	14.49	14.08	17.30	3.6	20.90
	3 840.00	QPSK	1/Inner right	19.48	18.93	22.22	3.6	25.82
		16QAM	1/inner left	18.49	18.50	21.51	3.6	25.11
		64QAM	1/inner left	17.31	17.23	20.28	3.6	23.88
		256QAM	1/Inner right	14.35	14.30	17.34	3.6	20.94
	3 945.00	QPSK	1/Inner right	19.33	19.29	22.32	3.6	25.92
		16QAM	1/Inner right	18.67	18.33	21.51	3.6	25.11
		64QAM	1/Inner right	17.39	17.26	20.34	3.6	23.94
		256QAM	1/edge left	14.32	14.22	17.28	3.6	20.88

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 730.02	QPSK	1/inner left	19.24	19.12	22.19	3.6	25.79
		16QAM	1/Inner right	18.59	18.48	21.55	3.6	25.15
		64QAM	1/Inner right	17.49	17.30	20.41	3.6	24.01
		256QAM	1/inner left	14.39	14.19	17.30	3.6	20.90
	3 840.00	QPSK	1/inner left	19.39	19.22	22.32	3.6	25.92
		16QAM	1/Inner right	18.45	18.45	21.46	3.6	25.06
		64QAM	1/Inner right	17.33	17.08	20.22	3.6	23.82
		256QAM	1/edge left	14.33	14.25	17.30	3.6	20.90
	3 949.98	QPSK	1/Inner right	19.22	19.16	22.20	3.6	25.80
		16QAM	1/inner left	18.65	18.24	21.46	3.6	25.06
		64QAM	1/Inner right	17.34	17.23	20.30	3.6	23.90
		256QAM	1/edge right	14.47	14.23	17.36	3.6	20.96
50	3 725.01	QPSK	1/Inner right	19.21	19.23	22.23	3.6	25.83
		16QAM	1/inner left	18.70	18.49	21.61	3.6	25.21
		64QAM	1/inner left	17.42	17.18	20.31	3.6	23.91
		256QAM	1/edge right	14.43	14.24	17.35	3.6	20.95
	3 840.00	QPSK	1/Inner right	19.40	19.17	22.30	3.6	25.90
		16QAM	1/Inner right	18.61	18.34	21.49	3.6	25.09
		64QAM	1/Inner right	17.36	17.29	20.34	3.6	23.94
		256QAM	1/edge left	14.38	14.13	17.27	3.6	20.87
	3 954.99	QPSK	1/Inner right	19.27	19.25	22.27	3.6	25.87
		16QAM	1/Inner right	18.56	18.45	21.52	3.6	25.12
		64QAM	1/Inner right	17.35	17.04	20.21	3.6	23.81
		256QAM	1/inner left	14.39	14.30	17.36	3.6	20.96
40	3 720.00	QPSK	1/inner left	19.48	19.06	22.29	3.6	25.89
		16QAM	1/inner left	18.43	18.32	21.39	3.6	24.99
		64QAM	1/inner left	17.39	17.29	20.35	3.6	23.95
		256QAM	1/edge right	14.37	14.22	17.31	3.6	20.91
	3 840.00	QPSK	1/Inner right	19.45	19.20	22.34	3.6	25.94
		16QAM	1/inner left	18.67	18.50	21.60	3.6	25.20
		64QAM	1/inner left	17.45	17.27	20.37	3.6	23.97
		256QAM	1/inner left	14.38	14.14	17.27	3.6	20.87
	3 960.00	QPSK	1/inner left	19.38	19.09	22.25	3.6	25.85
		16QAM	1/inner left	18.65	18.35	21.51	3.6	25.11
		64QAM	1/inner left	17.44	17.15	20.31	3.6	23.91
		256QAM	1/edge right	14.38	14.27	17.34	3.6	20.94

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 715.02	QPSK	1/Inner right	19.32	19.24	22.29	3.6	25.89
		16QAM	1/Inner right	18.57	18.40	21.50	3.6	25.10
		64QAM	1/Inner right	17.49	17.22	20.37	3.6	23.97
		256QAM	1/edge right	14.29	14.26	17.29	3.6	20.89
	3 840.00	QPSK	1/inner left	19.41	19.01	22.22	3.6	25.82
		16QAM	1/inner left	18.70	18.30	21.51	3.6	25.11
		64QAM	1/inner left	17.42	17.23	20.34	3.6	23.94
		256QAM	1/edge right	14.50	14.16	17.34	3.6	20.94
	3 964.98	QPSK	1/Inner right	19.48	19.29	22.40	3.6	26.00
		16QAM	1/Inner right	18.67	18.33	21.51	3.6	25.11
		64QAM	1/inner left	17.50	17.28	20.40	3.6	24.00
		256QAM	1/Inner right	14.24	14.26	17.26	3.6	20.86
20	3 710.01	QPSK	1/Inner right	19.36	19.27	22.33	3.6	25.93
		16QAM	1/Inner right	18.55	18.22	21.40	3.6	25.00
		64QAM	1/inner left	17.44	17.19	20.33	3.6	23.93
		256QAM	1/inner left	14.31	14.20	17.27	3.6	20.87
	3 840.00	QPSK	1/Inner right	19.48	19.11	22.31	3.6	25.91
		16QAM	1/Inner right	18.64	18.32	21.49	3.6	25.09
		64QAM	1/inner left	17.28	17.17	20.24	3.6	23.84
		256QAM	1/Inner right	14.32	14.22	17.28	3.6	20.88
	3 969.99	QPSK	1/Inner right	19.36	18.98	22.18	3.6	25.78
		16QAM	1/inner left	18.60	18.38	21.50	3.6	25.10
		64QAM	1/inner left	17.32	17.23	20.29	3.6	23.89
		256QAM	1/edge left	14.47	14.24	17.37	3.6	20.97
15	3 707.52	QPSK	1/inner left	19.33	19.09	22.22	3.6	25.82
		16QAM	1/Inner right	18.70	18.38	21.55	3.6	25.15
		64QAM	1/inner left	17.20	17.30	20.26	3.6	23.86
		256QAM	1/edge right	14.32	14.29	17.32	3.6	20.92
	3 840.00	QPSK	1/Inner right	19.25	19.24	22.26	3.6	25.86
		16QAM	1/inner left	18.58	18.48	21.54	3.6	25.14
		64QAM	1/inner left	17.31	17.12	20.23	3.6	23.83
		256QAM	1/edge right	14.43	14.28	17.37	3.6	20.97
	3 972.48	QPSK	1/inner left	19.35	18.95	22.16	3.6	25.76
		16QAM	1/Inner right	18.70	18.33	21.53	3.6	25.13
		64QAM	1/inner left	17.33	17.29	20.32	3.6	23.92
		256QAM	1/edge right	14.48	14.01	17.26	3.6	20.86
10	3 705.00	QPSK	1/Inner right	19.47	19.02	22.26	3.6	25.86
		16QAM	1/Inner right	18.42	18.49	21.47	3.6	25.07
		64QAM	1/Inner right	17.44	17.10	20.28	3.6	23.88
		256QAM	1/edge left	14.37	14.30	17.35	3.6	20.95
	3 840.00	QPSK	1/Inner right	19.21	19.30	22.27	3.6	25.87
		16QAM	1/Inner right	18.60	18.27	21.45	3.6	25.05
		64QAM	1/inner left	17.46	17.23	20.36	3.6	23.96
		256QAM	1/edge left	14.50	14.25	17.39	3.6	20.99
	3 975.00	QPSK	1/Inner right	19.38	19.13	22.27	3.6	25.87
		16QAM	1/Inner right	18.58	18.26	21.43	3.6	25.03
		64QAM	1/Inner right	17.36	17.15	20.27	3.6	23.87
		256QAM	1/edge left	14.28	14.19	17.25	3.6	20.85

7.3. UNDESIRABLE EMISSIONS (Radiated)

- Test Notes

1) The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions.
2) For Band below 1GHz:
   Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBd)
   For Band below 1GHz:
   Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBi)
3) Limit
   Band n2/5/12/13/14/17/25/26/66/70/71/77/78 = -13dBm
   Band n7/38/41 = -25dBm
   Band n30 = -40dBm
   Limit for 1 559 MHz ~ 1 610 MHz in Band n13/14 = −40dBm/MHz (equivalent isotropically radiated power for wideband signals)

- 5GNR n71

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	673	π/2 BPSK	1/104	1 364.65	H	-64.67	2.59	-62.08	-13.00	49.08
				2 046.72	V	-56.32	3.09	-53.23	-13.00	40.23
				2 728.02	V	-66.16	4.30	-61.86	-13.00	48.86
				3 409.41	H	-66.66	5.97	-60.69	-13.00	47.69
	680		1/104	1 379.53	H	-64.68	2.79	-61.89	-13.00	48.89
				2 069.28	V	-56.42	3.16	-53.26	-13.00	40.26
				2 758.26	V	-66.45	4.38	-62.07	-13.00	49.07
				3 447.22	H	-67.08	6.11	-60.97	-13.00	47.97
	688		1/1	1 357.46	H	-61.08	2.49	-58.59	-13.00	45.59
				2 035.97	V	-55.78	3.04	-52.74	-13.00	39.74
				2 716.06	V	-65.75	4.28	-61.47	-13.00	48.47
				3 395.44	H	-66.46	5.93	-60.53	-13.00	47.53

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	688	π/2 BPSK	1/1	1 357.44	H	-62.61	2.49	-60.12	-13.00	47.12
				2 036.19	V	-61.71	3.04	-58.67	-13.00	45.67
				2 716.46	V	-65.42	4.28	-61.14	-13.00	48.14
				3 395.37	H	-66.56	5.93	-60.63	-13.00	47.63

- 5GNR n12

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	706.5	π/2 BPSK	1/77	1 426.64	H	-52.43	3.26	-49.17	-13.00	36.17
				2 140.05	V	-58.12	3.16	-54.96	-13.00	41.96
				2 852.85	V	-66.53	4.72	-61.81	-13.00	48.81
				3 566.22	H	-67.00	6.27	-60.73	-13.00	47.73
	708.5			1 430.74	H	-51.78	3.29	-48.49	-13.00	35.49
				2 146.10	V	-57.92	3.15	-54.77	-13.00	41.77
				2 860.08	V	-66.51	4.76	-61.75	-13.00	48.75
				3 575.28	H	-66.96	6.25	-60.71	-13.00	47.71
10	704		1/50	1 416.76	H	-51.96	3.18	-48.78	-13.00	35.78
				2 125.14	V	-58.10	3.19	-54.91	-13.00	41.91
				2 833.70	V	-66.34	4.65	-61.69	-13.00	48.69
				3 543.01	H	-66.78	6.30	-60.48	-13.00	47.48
	711			1 430.91	H	-52.36	3.29	-49.07	-13.00	36.07
				2 146.21	V	-58.02	3.15	-54.87	-13.00	41.87
				2 861.48	V	-66.50	4.77	-61.73	-13.00	48.73
				3 577.12	H	-66.94	6.25	-60.69	-13.00	47.69

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	708.5	π/2 BPSK	1/77	1 430.60	H	-54.54	3.29	-51.25	-13.00	38.25
				2 145.98	V	-63.30	3.15	-60.15	-13.00	47.15
				2 860.21	V	-66.12	4.76	-61.36	-13.00	48.36
				3 575.40	H	-66.79	6.25	-60.54	-13.00	47.54

- 5GNR n13

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	π/2 BPSK	1/50	2 359.26	H	-63.99	3.81	-60.18	-13.00	47.18
				3 146.12	H	-67.83	5.33	-62.50	-13.00	49.50
				3 931.93	H	-68.02	6.92	-61.10	-13.00	48.10
5	779.5		1/23	2 344.30	H	-63.53	3.79	-59.74	-13.00	46.74
				3 128.02	H	-68.26	5.27	-62.99	-13.00	49.99
				3 909.21	H	-67.38	6.93	-60.45	-13.00	47.45
	782		1/1	2 339.91	H	-64.18	3.78	-60.40	-13.00	47.40
				3 118.91	H	-67.92	5.24	-62.68	-13.00	49.68
				3 898.39	H	-67.36	6.92	-60.44	-13.00	47.44
	784.5			2 347.61	H	-63.80	3.80	-60.00	-13.00	47.00
				3 129.74	H	-68.30	5.28	-63.02	-13.00	50.02
				3 910.18	H	-67.51	6.93	-60.58	-13.00	47.58

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	π/2 BPSK	1/50	1 572.88	V	-53.26	6.01	-47.25	-40.00	7.25
5	779.5	π/2 BPSK	1/23	1 562.87	V	-53.66	5.94	-47.72	-40.00	7.72
	782	π/2 BPSK	1/1	1 559.99	V	-53.26	5.92	-47.34	-40.00	7.34
	784.5	π/2 BPSK	1/1	1 564.91	V	-53.19	5.96	-47.23	-40.00	7.23

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
5	784.5	π/2 BPSK	1/1	2 347.72	V	-64.23	3.80	-60.43	-13.00	47.43
				3 129.10	V	-67.20	5.27	-61.93	-13.00	48.93
				3 910.32	V	-67.58	6.93	-60.65	-13.00	47.65

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
5	784.5	π/2 BPSK	1/1	1 565.00	V	-63.54	5.96	-57.58	-40.00	17.58

- 5GNR n14

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	793	π/2 BPSK	1/50	2 392.12	H	-65.16	3.81	-61.35	-13.00	48.35
				3 190.85	H	-67.56	5.35	-62.21	-13.00	49.21
				3 988.07	H	-68.30	6.90	-61.40	-13.00	48.40
5	790.5		1/23	2 377.54	H	-65.85	3.81	-62.04	-13.00	49.04
				3 170.43	H	-67.53	5.34	-62.19	-13.00	49.19
				3 963.76	H	-68.34	6.91	-61.43	-13.00	48.43
	793		1/1	2 372.81	H	-65.27	3.81	-61.46	-13.00	48.46
				3 163.79	H	-67.84	5.34	-62.50	-13.00	49.50
				3 953.03	H	-68.13	6.91	-61.22	-13.00	48.22
	795.5		1/23	2 392.34	H	-65.34	3.81	-61.53	-13.00	48.53
				3 190.51	H	-67.88	5.35	-62.53	-13.00	49.53
				3 987.68	H	-68.33	6.90	-61.43	-13.00	48.43

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	793	π/2 BPSK	1/50	1 594.73	V	-53.95	6.17	-47.78	-40.00	7.78
5	790.5	π/2 BPSK	1/23	1 584.93	V	-50.84	6.10	-44.74	-40.00	4.74
	793	π/2 BPSK	1/1	1 582.03	V	-50.05	6.08	-43.97	-40.00	3.97
	795.5	π/2 BPSK	1/23	1 594.87	V	-54.26	6.17	-48.09	-40.00	8.08

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
5	793	π/2 BPSK	1/1	2 373.02	V	-65.15	3.81	-61.34	-13.00	48.34
				3 163.53	V	-66.92	5.34	-61.58	-13.00	48.58
				3 953.26	V	-68.42	6.91	-61.51	-13.00	48.51

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
5	793	π/2 BPSK	1/1	1 581.87	V	-64.59	6.08	-58.51	-40.00	18.51

- 5GNR n26
814 ~ 824MHz Band
Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	π/2 BPSK	1/1	1 629.08	V	-53.77	4.08	-49.69	-13.00	36.69
				2 443.74	V	-65.43	3.88	-61.55	-13.00	48.55
				3 258.49	V	-66.71	5.45	-61.26	-13.00	48.26
				4 072.35	H	-67.75	7.03	-60.72	-13.00	47.72
5	816.5			1 629.07	V	-53.88	4.08	-49.80	-13.00	36.80
				2 443.13	V	-65.55	3.88	-61.67	-13.00	48.67
				3 257.29	V	-67.04	5.44	-61.60	-13.00	48.60
				4 070.76	H	-67.57	7.03	-60.54	-13.00	47.54
	821.5			1 639.00	V	-54.93	4.08	-50.85	-13.00	37.85
				2 458.39	V	-65.16	3.83	-61.33	-13.00	48.33
				3 276.87	V	-66.32	5.52	-60.80	-13.00	47.80
				4 095.87	H	-67.54	7.08	-60.46	-13.00	47.46

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	π/2 BPSK	1/1	1 629.12	V	-63.72	4.08	-59.64	-13.00	46.64
				2 443.74	V	-60.83	3.88	-56.95	-13.00	43.95
				3 258.67	V	-66.54	5.45	-61.09	-13.00	48.09
				4 072.29	H	-67.59	7.03	-60.56	-13.00	47.56

824 ~ 849MHz Band
Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	834	π/2 BPSK	1/104	1 686.47	V	-55.84	3.96	-51.88	-13.00	38.88
				2 529.69	V	-62.40	3.80	-58.60	-13.00	45.60
				3 371.07	V	-66.53	5.88	-60.65	-13.00	47.65
				4 214.74	H	-67.77	7.21	-60.56	-13.00	47.56
	836.5			1 691.60	V	-53.73	3.94	-49.79	-13.00	36.79
				2 537.30	V	-61.08	3.86	-57.22	-13.00	44.22
				3 381.79	V	-67.21	5.90	-61.31	-13.00	48.31
				4 227.07	H	-68.35	7.20	-61.15	-13.00	48.15
	839			1 696.49	V	-52.48	3.92	-48.56	-13.00	35.56
				2 544.86	V	-61.11	3.92	-57.19	-13.00	44.19
				3 392.05	V	-67.57	5.92	-61.65	-13.00	48.65
				4 239.01	H	-67.50	7.20	-60.30	-13.00	47.30

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	839	π/2 BPSK	1/104	1 696.57	V	-61.17	3.92	-57.25	-13.00	44.25
				2 544.81	V	-62.05	3.92	-58.13	-13.00	45.13
				3 391.91	V	-66.55	5.92	-60.63	-13.00	47.63
				4 239.80	H	-67.68	7.20	-60.48	-13.00	47.48

- 5GNR n5

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	834	π/2 BPSK	1/104	1 686.50	V	-55.28	3.96	-51.32	-13.00	38.32
				2 529.65	V	-63.34	3.80	-59.54	-13.00	46.54
				3 371.47	V	-67.07	5.88	-61.19	-13.00	48.19
				4 214.88	H	-67.76	7.21	-60.55	-13.00	47.55
	839		1/1	1 659.41	V	-54.61	4.06	-50.55	-13.00	37.55
				2 489.01	V	-64.78	3.63	-61.15	-13.00	48.15
				3 320.82	V	-66.54	5.71	-60.83	-13.00	47.83
				4 151.08	H	-68.08	7.15	-60.93	-13.00	47.93
15	831.5		1/77	1 676.63	V	-53.92	3.99	-49.93	-13.00	36.93
				2 515.03	V	-64.29	3.68	-60.61	-13.00	47.61
				3 352.38	V	-67.16	5.84	-61.32	-13.00	48.32
				4 190.32	H	-67.99	7.20	-60.79	-13.00	47.79
	841.5		1/1	1 669.35	V	-53.69	4.02	-49.67	-13.00	36.67
				2 503.95	V	-64.81	3.59	-61.22	-13.00	48.22
				3 339.71	V	-67.09	5.79	-61.30	-13.00	48.30
				4 173.98	H	-67.79	7.18	-60.61	-13.00	47.61

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	841.5	π/2 BPSK	1/1	1 669.30	V	-58.92	4.02	-54.90	-13.00	41.90
				2 504.11	V	-63.99	3.59	-60.40	-13.00	47.40
				3 339.71	V	-66.98	5.79	-61.19	-13.00	48.19
				4 173.56	H	-67.79	7.18	-60.61	-13.00	47.61

- 5GNR n70

Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
15	1 702.5	π/2 BPSK	1/77	3 418.66	V	-59.42	8.16	-51.26	-13.00	38.26
				5 127.15	H	-67.37	10.10	-57.27	-13.00	44.27
				6 836.28	H	-65.83	11.32	-54.51	-13.00	41.51
				8 545.72	V	-66.92	12.93	-53.99	-13.00	40.99
10	1 700		1/50	3 408.73	V	-58.97	8.12	-50.85	-13.00	37.85
				5 112.89	H	-67.43	10.09	-57.34	-13.00	44.34
				6 818.21	H	-65.77	11.30	-54.47	-13.00	41.47
				8 522.20	V	-66.94	12.91	-54.03	-13.00	41.03
	1 702.5			3 413.82	V	-58.98	8.14	-50.84	-13.00	37.84
				5 120.50	H	-67.03	10.09	-56.94	-13.00	43.94
				6 827.19	H	-65.69	11.31	-54.38	-13.00	41.38
				8 534.39	V	-67.06	12.92	-54.14	-13.00	41.14
	1 705		1/1	3 401.12	V	-58.37	8.09	-50.28	-13.00	37.28
				5 101.91	H	-67.37	10.07	-57.30	-13.00	44.30
				6 802.78	H	-65.86	11.27	-54.59	-13.00	41.59
				8 501.99	V	-66.77	12.90	-53.87	-13.00	40.87

External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	1 705	π/2 BPSK	1/1	3 401.25	V	-65.12	8.09	-57.03	-13.00	44.03
				5 101.65	H	-63.08	10.07	-53.01	-13.00	40.01
				6 802.28	H	-65.97	11.27	-54.70	-13.00	41.70
				8 502.78	V	-66.86	12.90	-53.96	-13.00	40.96

- 5GNR n66

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	1 730	π/2 BPSK	1/214	3 498.36	V	-66.69	8.47	-58.22	-13.00	45.22
				5 247.41	H	-65.82	10.22	-55.60	-13.00	42.60
				6 995.79	H	-66.35	11.56	-54.79	-13.00	41.79
				8 745.74	V	-65.95	13.01	-52.94	-13.00	39.94
	1 760		1/1	3 481.41	V	-68.21	8.40	-59.81	-13.00	46.81
				5 222.41	H	-65.49	10.21	-55.28	-13.00	42.28
				6 962.86	H	-66.48	11.55	-54.93	-13.00	41.93
				8 895.27	V	-66.21	13.03	-53.18	-13.00	40.18
30	1 725		1/158	3 478.14	V	-66.87	8.39	-58.48	-13.00	45.48
				5 217.46	H	-64.99	10.21	-54.78	-13.00	41.78
				6 956.46	H	-67.31	11.55	-55.76	-13.00	42.76
				8 695.87	V	-66.93	12.96	-53.97	-13.00	40.97

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
30	1 725	π/2 BPSK	1/158	3 478.28	V	-67.73	8.39	-59.34	-13.00	46.34
				5 217.20	H	-66.42	10.21	-56.21	-13.00	43.21
				6 957.12	H	-67.22	11.55	-55.67	-13.00	42.67
				8 695.88	V	-67.15	12.96	-54.19	-13.00	41.19

- 5GNR n2

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 860	π/2 BPSK	1/104	3 738.51	V	-64.76	8.29	-56.47	-13.00	43.47
				5 607.79	H	-65.68	10.40	-55.28	-13.00	42.28
				7 475.06	H	-66.84	12.13	-54.71	-13.00	41.71
				9 344.82	V	-63.11	12.98	-50.13	-13.00	37.13
	1 880		1/1	3 741.39	V	-65.13	8.29	-56.84	-13.00	43.84
				5 613.23	H	-66.05	10.41	-55.64	-13.00	42.64
				7 484.27	H	-66.36	12.14	-54.22	-13.00	41.22
				9 354.67	V	-62.90	12.98	-49.92	-13.00	36.92
	1 900			3 781.36	V	-64.36	8.41	-55.95	-13.00	42.95
				5 672.47	H	-65.64	10.49	-55.15	-13.00	42.15
				7 564.44	H	-67.10	12.19	-54.91	-13.00	41.91
				9 455.65	V	-62.19	12.98	-49.21	-13.00	36.21

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 900	π/2 BPSK	1/1	3 781.80	V	-67.28	8.41	-58.87	-13.00	45.87
				5 673.04	V	-67.13	10.49	-56.64	-13.00	43.64
				7 564.77	H	-66.65	12.19	-54.46	-13.00	41.46
				9 455.36	V	-62.05	12.98	-49.07	-13.00	36.07

- 5GNR n25

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	1 870	π/2 BPSK	1/1	3 701.68	V	-66.87	8.34	-58.53	-13.00	45.53
				5 552.99	H	-66.38	10.31	-56.07	-13.00	43.07
				7 402.92	H	-66.52	12.04	-54.48	-13.00	41.48
				9 253.25	V	-63.03	13.00	-50.03	-13.00	37.03
	1 882.5			3 726.61	V	-66.12	8.31	-57.81	-13.00	44.81
				5 589.95	H	-65.97	10.37	-55.60	-13.00	42.60
				7 453.18	H	-66.65	12.09	-54.56	-13.00	41.56
				9 315.40	V	-62.89	13.00	-49.89	-13.00	36.89
	1 895			3 751.62	V	-65.84	8.29	-57.55	-13.00	44.55
				5 627.70	H	-65.96	10.42	-55.54	-13.00	42.54
				7 503.77	H	-66.81	12.16	-54.65	-13.00	41.65
				9 378.76	V	-62.41	13.00	-49.41	-13.00	36.41

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	1 895	π/2 BPSK	1/1	3 751.85	V	-67.21	8.29	-58.92	-13.00	45.92
				5 627.60	V	-67.63	10.42	-57.21	-13.00	44.21
				7 503.10	H	-66.51	12.16	-54.35	-13.00	41.35
				9 378.53	V	-62.36	13.00	-49.36	-13.00	36.36

- 5GNR n30

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	2 310	π/2 BPSK	1/1	4 611.08	H	-50.97	9.49	-41.48	-40.00	1.48
				6 916.70	V	-64.47	11.49	-52.98	-40.00	12.98
				9 220.09	V	-63.70	13.02	-50.68	-40.00	10.68
				11 528.43	H	-63.34	13.23	-50.11	-40.00	10.11
5	2 307.5			4 611.03	H	-51.57	9.49	-42.08	-40.00	2.08
				6 916.53	V	-65.41	11.49	-53.92	-40.00	13.92
				9 220.27	V	-64.03	13.02	-51.01	-40.00	11.01
				11 526.19	H	-63.48	13.22	-50.26	-40.00	10.26
	2 310			4 616.12	H	-52.70	9.51	-43.19	-40.00	3.19
				6 924.16	V	-66.23	11.50	-54.73	-40.00	14.73
				9 230.08	V	-64.09	13.02	-51.07	-40.00	11.07
				11 538.65	H	-63.23	13.26	-49.97	-40.00	9.97
	2 312.5		1/23	4 628.86	H	-53.78	9.54	-44.24	-40.00	4.24
				6 943.27	V	-67.05	11.54	-55.51	-40.00	15.51
				9 257.64	V	-63.35	13.00	-50.35	-40.00	10.35
				11 574.51	H	-63.47	13.29	-50.18	-40.00	10.18

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	2 310	π/2 BPSK	1/1	4 611.18	H	-67.39	9.49	-57.90	-40.00	17.90
				6 916.53	H	-66.22	11.49	-54.73	-40.00	14.73
				9 220.70	V	-63.88	13.02	-50.86	-40.00	10.86
				11 528.35	H	-63.35	13.23	-50.12	-40.00	10.12

- 5GNR n41

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	2 546.01	QPSK	1/271	5 189.02	H	-57.35	10.19	-47.16	-25.00	22.16
				7 783.22	H	-59.90	12.31	-47.59	-25.00	22.59
				10 376.30	H	-55.08	12.98	-42.10	-25.00	17.10
				12 970.19	H	-53.22	13.56	-39.66	-25.00	14.66
	2 592.99			5 283.24	H	-55.49	10.21	-45.28	-25.00	20.28
				7 924.67	H	-58.07	12.43	-45.64	-25.00	20.64
				10 563.96	H	-53.96	13.03	-40.93	-25.00	15.93
				13 205.97	H	-53.52	13.98	-39.54	-25.00	14.54
	2 640			5 377.15	H	-54.80	10.30	-44.50	-25.00	19.50
				8 065.76	H	-58.40	12.58	-45.82	-25.00	20.82
				10 752.53	H	-54.89	13.01	-41.88	-25.00	16.88
				13 440.71	H	-53.40	14.11	-39.29	-25.00	14.29

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	2 640	QPSK	1/271	5 377.26	H	-58.42	10.30	-48.12	-25.00	23.12
				8 064.54	H	-59.43	12.58	-46.85	-25.00	21.85
				10 752.89	H	-55.07	13.01	-42.06	-25.00	17.06
				13 441.16	H	-53.30	14.11	-39.19	-25.00	14.19

- 5GNR n7 data

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 520	π/2 BPSK	1/214	5 078.29	H	-62.22	10.04	-52.18	-25.00	27.18
				7 618.15	H	-67.67	12.19	-55.48	-25.00	30.48
				10 157.28	V	-61.62	12.86	-48.76	-25.00	23.76
				12 695.51	H	-62.16	13.36	-48.80	-25.00	23.80
	2 535			5 108.33	H	-62.40	10.08	-52.32	-25.00	27.32
				7 662.76	H	-67.46	12.22	-55.24	-25.00	30.24
				10 217.18	V	-62.50	12.88	-49.62	-25.00	24.62
				12 771.37	H	-61.70	13.35	-48.35	-25.00	23.35
	2 550			5 138.30	H	-61.81	10.12	-51.69	-25.00	26.69
				7 707.77	H	-66.79	12.22	-54.57	-25.00	29.57
				10 277.39	V	-62.52	12.87	-49.65	-25.00	24.65
				12 845.93	H	-60.97	13.50	-47.47	-25.00	22.47

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 550	π/2 BPSK	1/214	5 138.18	H	-65.86	10.12	-55.74	-25.00	30.74
				7 707.16	H	-67.48	12.22	-55.26	-25.00	30.26
				10 276.42	V	-62.97	12.87	-50.10	-25.00	25.10
				12 845.42	H	-61.43	13.50	-47.93	-25.00	22.93

- 5GNR n38

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 590	QPSK	1/1	5 142.68	H	-58.35	10.12	-48.23	-25.00	23.23
				7 712.35	H	-59.18	12.22	-46.96	-25.00	21.96
				10 283.97	H	-55.17	12.87	-42.30	-25.00	17.30
				12 854.58	H	-53.32	13.51	-39.81	-25.00	14.81
	2 595		1/104	5 227.25	H	-57.89	10.22	-47.67	-25.00	22.67
				7 841.36	H	-59.40	12.34	-47.06	-25.00	22.06
				10 456.04	H	-54.10	13.10	-41.00	-25.00	16.00
				13 071.01	H	-53.32	13.75	-39.57	-25.00	14.57
	2 600		1/1	5 162.62	H	-58.88	10.15	-48.73	-25.00	23.73
				7 741.90	H	-59.16	12.25	-46.91	-25.00	21.91
				10 323.86	H	-55.12	12.87	-42.25	-25.00	17.25
				12 904.26	H	-53.22	13.47	-39.75	-25.00	14.75

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 595	QPSK	1/104	5 227.02	H	-59.29	10.22	-49.07	-25.00	24.07
				7 841.00	H	-59.19	12.34	-46.85	-25.00	21.85
				10 456.14	H	-54.22	13.10	-41.12	-25.00	16.12
				13 070.26	H	-53.45	13.74	-39.71	-25.00	14.71

- 5GNR n78 3 450 ~ 3 550 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 500.01	QPSK	1/1	6 902.53	H	-51.57	11.46	-40.11	-13.00	27.11
				10 355.27	H	-56.10	12.91	-43.19	-13.00	30.19
				13 807.84	H	-53.55	14.60	-38.95	-13.00	25.95
				17 259.62	H	-57.89	13.97	-43.92	-13.00	30.92
90	3 495			6 902.87	H	-50.58	11.47	-39.11	-13.00	26.11
				10 356.21	H	-56.04	12.91	-43.13	-13.00	30.13
				13 808.96	H	-53.66	14.59	-39.07	-13.00	26.07
				17 261.41	H	-57.95	13.97	-43.98	-13.00	30.98
	3 500.01			6 912.83	H	-50.23	11.48	-38.75	-13.00	25.75
				10 371.79	H	-55.87	12.96	-42.91	-13.00	29.91
				13 828.71	H	-53.43	14.58	-38.85	-13.00	25.85
				17 286.60	H	-57.85	14.02	-43.83	-13.00	30.83
	3 504.99			6 922.61	H	-50.86	11.50	-39.36	-13.00	26.36
				10 387.13	H	-55.74	13.02	-42.72	-13.00	29.72
				13 849.16	H	-53.54	14.57	-38.97	-13.00	25.97
				17 310.69	H	-58.10	14.04	-44.06	-13.00	31.06

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
90	3 500.01	QPSK	1/1	6 912.54	H	-59.14	11.48	-47.66	-13.00	34.66
				10 372.39	H	-55.59	12.97	-42.62	-13.00	29.62
				13 829.35	H	-53.74	14.58	-39.16	-13.00	26.16
				17 826.21	H	-58.76	14.24	-44.52	-13.00	31.52

- 5GNR n78 3 700 ~ 3 800 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 750.00	QPSK	1/271	7 596.99	H	-51.96	12.17	-39.79	-13.00	26.79
				11 395.04	H	-56.33	13.14	-43.19	-13.00	30.19
				15 192.40	H	-60.14	14.05	-46.09	-13.00	33.09
90	3 745.02		1/1	7 402.86	H	-53.64	12.04	-41.60	-13.00	28.60
				11 105.78	H	-55.76	13.12	-42.64	-13.00	29.64
				14 809.68	H	-57.96	13.87	-44.09	-13.00	31.09
	3 750		1/243	7 587.04	H	-51.95	12.18	-39.77	-13.00	26.77
				11 377.72	H	-56.66	13.14	-43.52	-13.00	30.52
				15 171.86	H	-60.07	14.03	-46.04	-13.00	33.04
	3 754.98		1/243	7 596.87	H	-53.01	12.17	-40.84	-13.00	27.84
				11 394.04	H	-56.64	13.14	-43.50	-13.00	30.50
				15 190.39	H	-59.65	14.05	-45.60	-13.00	32.60

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
90	3 750	QPSK	1/243	7 587.36	H	-52.75	12.18	-40.57	-13.00	27.57
				11 378.73	H	-56.39	13.14	-43.25	-13.00	30.25
				15 171.22	H	-60.20	14.03	-46.17	-13.00	33.17

- 5GNR n77 3 450 ~ 3 550 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 500.01	QPSK	1/1	6 902.83	H	-50.57	11.47	-39.10	-13.00	26.10
				10 356.29	H	-55.48	12.91	-42.57	-13.00	29.57
				13 808.19	H	-53.21	14.60	-38.61	-13.00	25.61
				17 258.73	H	-57.51	13.97	-43.54	-13.00	30.54
90	3 495			6 902.64	H	-49.74	11.46	-38.28	-13.00	25.28
				10 357.32	H	-55.49	12.91	-42.58	-13.00	29.58
				13 809.24	H	-53.17	14.59	-38.58	-13.00	25.58
				17 260.64	H	-57.75	13.97	-43.78	-13.00	30.78
	3 500			6 912.87	H	-48.96	11.48	-37.48	-13.00	24.48
				10 372.19	H	-55.25	12.97	-42.28	-13.00	29.28
				13 829.26	H	-53.12	14.58	-38.54	-13.00	25.54
				17 285.19	H	-57.41	14.01	-43.40	-13.00	30.40
	3 505			6 922.76	H	-50.55	11.50	-39.05	-13.00	26.05
				10 386.03	H	-55.02	13.01	-42.01	-13.00	29.01
				13 848.53	H	-53.02	14.57	-38.45	-13.00	25.45
				17 310.74	H	-57.61	14.04	-43.57	-13.00	30.57

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
90	3 500	QPSK	1/1	6 912.57	H	-58.26	11.48	-46.78	-13.00	33.78
				10 371.84	H	-55.12	12.96	-42.16	-13.00	29.16
				13 829.24	H	-53.19	14.58	-38.61	-13.00	25.61
				17 285.81	H	-57.52	14.01	-43.51	-13.00	30.51

- 5GNR n77 3 700 ~ 3 980 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 750	QPSK	1/271	7 597.23	H	-50.86	12.17	-38.69	-13.00	25.69
				11 394.64	H	-56.66	13.14	-43.52	-13.00	30.52
				15 192.15	H	-59.98	14.05	-45.93	-13.00	32.93
	3 840		1/1	7 582.67	H	-52.55	12.18	-40.37	-13.00	27.37
				11 375.54	H	-56.64	13.14	-43.50	-13.00	30.50
				15 168.06	H	-60.29	14.02	-46.27	-13.00	33.27
	3 930		1/270	7 957.17	H	-49.73	12.47	-37.26	-13.00	24.26
				11 934.34	H	-55.08	13.19	-41.89	-13.00	28.89
				15 912.09	H	-58.78	13.28	-45.50	-13.00	32.50

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 930	QPSK	1/271	7 957.15	H	-59.43	12.47	-46.96	-13.00	33.96
				11 934.34	H	-55.29	13.19	-42.10	-13.00	29.10
				15 912.41	H	-58.63	13.28	-45.35	-13.00	32.35

ENDC MODE: NR n38 + LTE B5

Band	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset
NR n38	40	2 600	BPSK	1/25
LTE B5	10	844	QPSK	1/1

External antenna 1

Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
1 687.98	V	-63.73	6.10	-57.63	-13.00	44.63
2 532.46	V	-60.74	5.97	-54.77	-13.00	41.77
3 376.45	V	-67.61	8.04	-59.57	-13.00	46.57
4 219.45	H	-68.64	9.36	-59.28	-13.00	46.28
5 162.81	H	-61.25	10.15	-51.10	-25.00	26.10
7 744.14	H	-59.71	12.25	-47.46	-25.00	22.46
10 323.93	H	-56.15	12.87	-43.28	-25.00	18.28
12 904.57	H	-54.51	13.47	-41.04	-25.00	16.04

Internal chip antenna 1

Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
1 688.26	V	-56.10	6.10	-50.00	-13.00	37.00
2 532.46	V	-60.77	5.97	-54.80	-13.00	41.80
3 375.95	V	-67.46	8.04	-59.42	-13.00	46.42
4 219.45	H	-68.71	9.36	-59.35	-13.00	46.35
5 162.77	H	-60.67	10.15	-50.52	-25.00	25.52
7 743.18	H	-59.93	12.25	-47.68	-25.00	22.68
10 322.99	H	-56.10	12.87	-43.23	-25.00	18.23
12 903.64	H	-54.44	13.47	-40.97	-25.00	15.97