

Annex E. Power Density Test Result

Test Considerations

1. The radio configurations of maximum Input Power Limit found in Part 0 Power Density char report as 2CC, BW 200 MHz, SCS 60 kHz. All power density measurements for this device were performed at the Input Power Limit given in below tables. Input power is per antenna element and polarization for each antenna module. When input power limit is calculated to be above the maximum input power, the device is limited to the maximum input power.
2. The Beam ID for maximum radiation configuration for each array antenna module in the Power Density simulation report provided by Kyocera was used to test power density accordingly. The power density measurement for each array antenna module was tested on its beam direction due to its highly directional characteristic.
3. Both horizontal and vertical polarization have been tested and are generated using patch array antenna configurations of each worst Beam ID.

Notes:

1. The comparison result between measurement here and simulation please refer to the RF Exposure Compliance Test Report - Part 0 (SAR and Power Density char report).

Table 4-15 5G NR n261 QTM#0 input.power.limit

Band	BeamID	Paired with Beam_ID	Input.Power.Limit (dBm)
n261	1		6.00
	5		4.33
	6		4.47
	7		5.96
	10		4.21
	11		4.89
	14		4.44
	15		4.06
	16		3.18
	17		2.93
	18		4.08
	20		4.14
	21		3.83
	22		2.93
	23		3.03
	129		6.00
	133		3.46
	134		4.82
	135		4.36
	138		3.92
	139		5.02
	142		3.81
	143		3.45
	144		3.05
	145		5.86
	146		3.59
	148		3.94
	149		2.85
	150		4.20
	151		4.61
	1	129	6.00
	5	133	2.08
	6	134	2.05
	7	135	2.84
	10	138	1.53
	11	139	1.53
	14	142	1.64
	15	143	0.93
	16	144	1.02
	17	145	1.25
	18	146	0.93
	20	148	2.02
	21	149	0.47
	22	150	1.63
	23	151	1.12

Table 4-16 5G NR n261 QTM#1 input.power.limit

Band	BeamID	Paired with Beam_ID	Input.Power.Limit (dBm)
n261	0		6.00
	2		3.07
	3		3.76
	4		3.28
	8		3.94
	9		3.54
	12		3.57
	13		2.79
	19		3.18
	128		6.00
	130		5.94
	131		5.90
	132		4.47
	136		5.54
	137		5.54
	140		4.17
	141		3.11
	147		4.40
	0	128	6.00
	2	130	3.25
	3	131	1.68
	4	132	2.36
	8	136	2.00
	9	137	1.93
	12	140	0.53
	13	141	0.48
	19	147	1.36

Table 4-17 5G NR n260 QTM#0 input.power.limit

Band	BeamID	Paired with Beam_ID	Input.Power.Limit (dBm)
n260	1		6.00
	5		4.21
	6		3.08
	7		3.50
	10		1.79
	11		3.31
	14		1.63
	15		2.65
	16		0.90
	17		0.12
	18		1.82
	20		2.30
	21		1.84
	22		0.01
	23		0.78
	129		5.24
	133		3.88
	134		2.67
	135		2.37
	138		2.61
	139		3.14
	142		3.22
	143		3.48
	144		2.43
	145		1.69
	146		2.97
	148		3.15
	149		2.79
	150		1.37
	151		2.86
	1	129	2.86
	5	133	1.84
	6	134	-0.47
	7	135	-0.85
	10	138	0.38
	11	139	-0.46
	14	142	-1.51
	15	143	-1.22
	16	144	-0.97
	17	145	-2.08
	18	146	-1.41
	20	148	-1.44
	21	149	0.02
	22	150	-1.82
	23	151	-1.42

Table 4-18 5G NR n260 QTM#1 input.power.limit

Band	BeamID	Paired with Beam_ID	Input.Power.Limit (dBm)
n260	0		6.00
	2		4.58
	3		5.76
	4		5.76
	8		5.76
	9		5.76
	12		2.15
	13		1.98
	19		2.34
	128		6.00
	130		5.69
	131		5.75
	132		5.50
	136		5.75
	137		5.69
	140		3.82
	141		4.44
	147		4.73
	0	128	5.87
	2	130	3.72
	3	131	2.06
	4	132	3.41
	8	136	2.38
	9	137	2.69
	12	140	0.84
	13	141	1.36
	19	147	1.28

Plot No.	Band	Mode	Test Position	Evaluation Distance [mm]	Channel	Frequency [MHz]	Antenna	Beam ID(V)	Beam ID(H)	Input Power Limit	Averaging Area [cm ²]	Avg-Incident Power Density [W/m ²]	Avg-Total Power Density [W/m ²]	Test Duty Cycle [%]	Production Duty Cycle [%]	Duty Cycle Factor	Scaled Avg-Total PD [W/m ²]
01	n260	CW	Left Side	2	2254166	38500	QTM#0	22		0.01	4	1.51	1.62	100.0	100.0	1	1.6
02	n260	CW	Left Side	2	2229207	37050	QTM#0		150	1.37	4	2.03	2.25	100.0	100.0	1	2.3
03	n260	CW	Left Side	2	2254166	38500	QTM#0	17	145	-2.08	4	1.60	1.77	100.0	100.0	1	1.8
04	n260	CW	Rear Face	2	2278333	39950	QTM#1	13		1.98	4	1.66	1.88	100.0	100.0	1	1.9
05	n260	CW	Rear Face	2	2254166	38500	QTM#1		140	3.82	4	3.35	3.88	100.0	100.0	1	3.9
06	n260	CW	Rear Face	2	2278333	39950	QTM#1	12	140	0.84	4	2.76	3.23	100.0	100.0	1	3.2
07	n260	CW	Left Side	2	2254166	38500	QTM#0	1		6	4	2.03	2.34	100.0	100.0	1	2.3
08	n261	CW	Left Side	2	2071833	27560	QTM#0	22		2.93	4	3.33	3.81	100.0	100.0	1	3.8
09	n261	CW	Left Side	2	2071833	27560	QTM#0		149	2.85	4	3.48	3.85	100.0	100.0	1	3.9
10	n261	CW	Left Side	2	2071833	27560	QTM#0	21	149	0.47	4	3.71	3.91	100.0	100.0	1	3.9
11	n261	CW	Rear Face	2	2071833	27560	QTM#1	13		2.79	4	3.58	3.99	100.0	100.0	1	4.0
12	n261	CW	Rear Face	2	2071833	27560	QTM#1		141	3.11	4	3.56	3.97	100.0	100.0	1	4.0
13	n261	CW	Rear Face	2	2077916	27924.98	QTM#1	13	141	0.48	4	3.89	4.08	100.0	100.0	1	4.1
14	n261	CW	Left Side	2	2071833	27560	QTM#0	1		6	4	1.40	1.64	100.0	100.0	1	1.6