

TEST REPORT

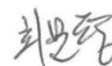
FCC PD Part 0 Test for SM-F766U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2504-FC004

DATE OF ISSUE
April 22, 2025

Tested by
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TEST REPORT

FCC Part 0 PD Test
for certification

REPORT NO.**HCT-SR-2504-FC004****DATE OF ISSUE****Apr. 22, 2025****FCC ID****A3LSMF766U**

Applicant	SAMSUNG Electronics Co., Ltd 129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea
Product Name Model Name Additional Model Name	Mobile Phone SM-SF766U SM-F766U1
Date of Test	Mar. 20, 2025 ~ Apr. 02, 2025
Location of Test	☒ Permanent Testing Lab ☐ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
FCC Rule Part(s)	CFR § 2.1093
Test	PASS (Power Density Limit : 1.0 mW/cm ²)

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	Apr. 22, 2025	Initial Release

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Location

Test Laboratory

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Telephone	031-645-6300
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Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Korea	National Radio Research Agency (Designation No. KR0032)
	KOLAS (Testing No. KT197)

Information of the EUT

Model Name	SM-F766U
Additional Model Name	SM-F766U1
Equipment Type	Mobile Phone
FCC ID	A3LSMF766U
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

NR FR2 Device Description.

Item.		Description					
Frequency Range	NR Band n258	24 250 MHz ~ 24 450 MHz; 24 750 MHz ~ 25 250 MHz					
	NR Band n260	37 000 MHz – 40 000 MHz					
	NR Band n261	27 000 MHz – 28 500 MHz					
Channel Bandwidths	NR Band n258	50 MHz, 100 MHz					
	NR Band n260	50 MHz, 100 MHz					
	NR Band n261	50 MHz, 100 MHz					
Ch. No.& Freq		Low channel		Middle channel		High Channel	
		Channel	Frequency	Channel	Frequency	Channel	Frequency
NR Band n261	100 MHz	2071667	27550.08	2077915	27924.96	2084165	28299.96
	50 MHz	2071249	27525	2077915	27924.96	2084581	28324.92
NR Band n260	100 MHz	2229999	37050	2254165	38499.96	2278331	39949.92
	50 MHz	2229853	37025.04	2254165	38499.96	2278749	39975
NR Band n258	100 MHz	2018333	24350.04	2025833	24800.04	2032499	25200
	50 MHz	2018333	24350.04	2025417	24775.08	2032915	25224.96
Subcarrier Spacing (kHz)		120					
Total Number of Supported Uplink CCs (SISO)		4 (DFT-s-OFDM, CP-OFDM)					
Total Number of Supported Uplink CCs (MIMO)		4 (DFT-s-OFDM, CP-OFDM)					
Total Number of Supported UL CCs (MIMO)		4 (CP-OFDM Only)					
Modulations Supported in UL		DFT-S-OFDM: Pi/2 BPSK, QPSK, 16QAM, 64QAM CP-OFDM: QPSK, 16QAM, 64QAM					
LTE Anchor Bands (n261)		LTE Band 2/5/12/13/14/30/48/66					
LTE Anchor Bands (n260)		LTE Band 2/4/5/12/13/48/66					
LTE Anchor Bands (n258)		LTE Band 2/5/12/66/71					
Subcarrier Spacing (kHz)		120					
NR FR1 Anchor Bands (n258)		NR Band n25/41/66/77					
NR FR1 Anchor Bands (n260)		NR Band n2/5/14/25/30/41/48/66/71/77					
NR FR1 Anchor Bands (n261)		NR Band n2/5/25/41/48/66/71/77					
Duplex Type (mmWave)		TDD					
Device Serial Numbers		YBQ0583M					
		The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.					

Power Density Characterization

1. Exposure Scenarios

At frequencies > 6GHz, the total peak spatial averaged power density (psPD) is required to be assessed for all antenna configurations (beams) from all mmW antenna modules installed inside the device.

This device has 1 patch antenna arrays (K Patch). As showed in Figure 1, the surfaces near-by each mmW antenna module for PD characterization are identified and listed in Table 1

Table 1: 5G mmWave NR Device Surfaces

Band	Antenna	Condition	Rear (S2)	Front (S1)	Left (S3)	Right (S4)	Bottom (S6)	Top (S5)
NR n261	Patch K	Open	No	No	Yes	No	No	No
NR n260	Patch K	Open	No	No	Yes	No	No	No
NR n258	Patch K	Open	No	Yes	Yes	No	No	No
NR n261	Patch K	Closed	No	No	Yes	No	No	No
NR n260	Patch K	Closed	No	No	Yes	No	No	No
NR n258	Patch K	Closed	No	No	Yes	No	No	No

Note: All test configurations are based on front position view.

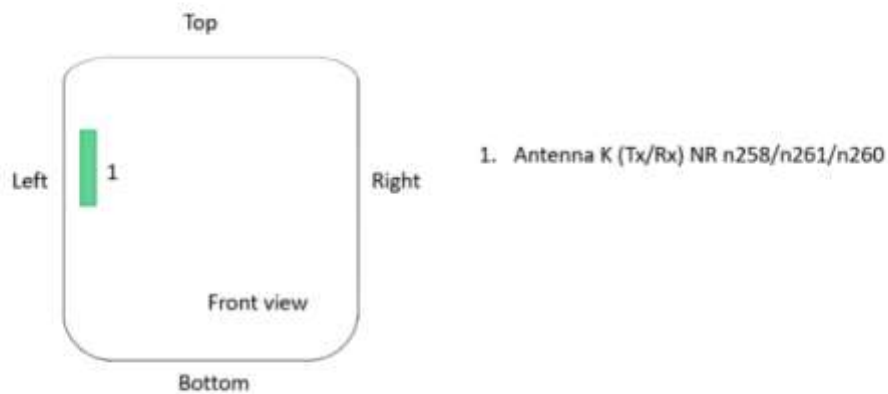


Figure 1: Location of mmW antenna modules looking from front of the DUT – Closed

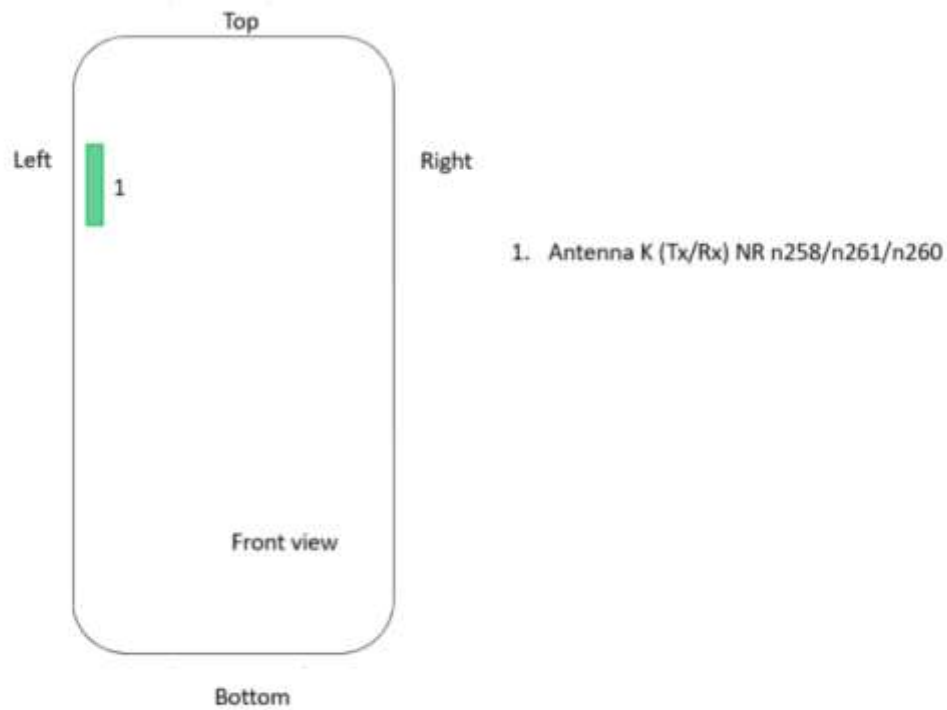
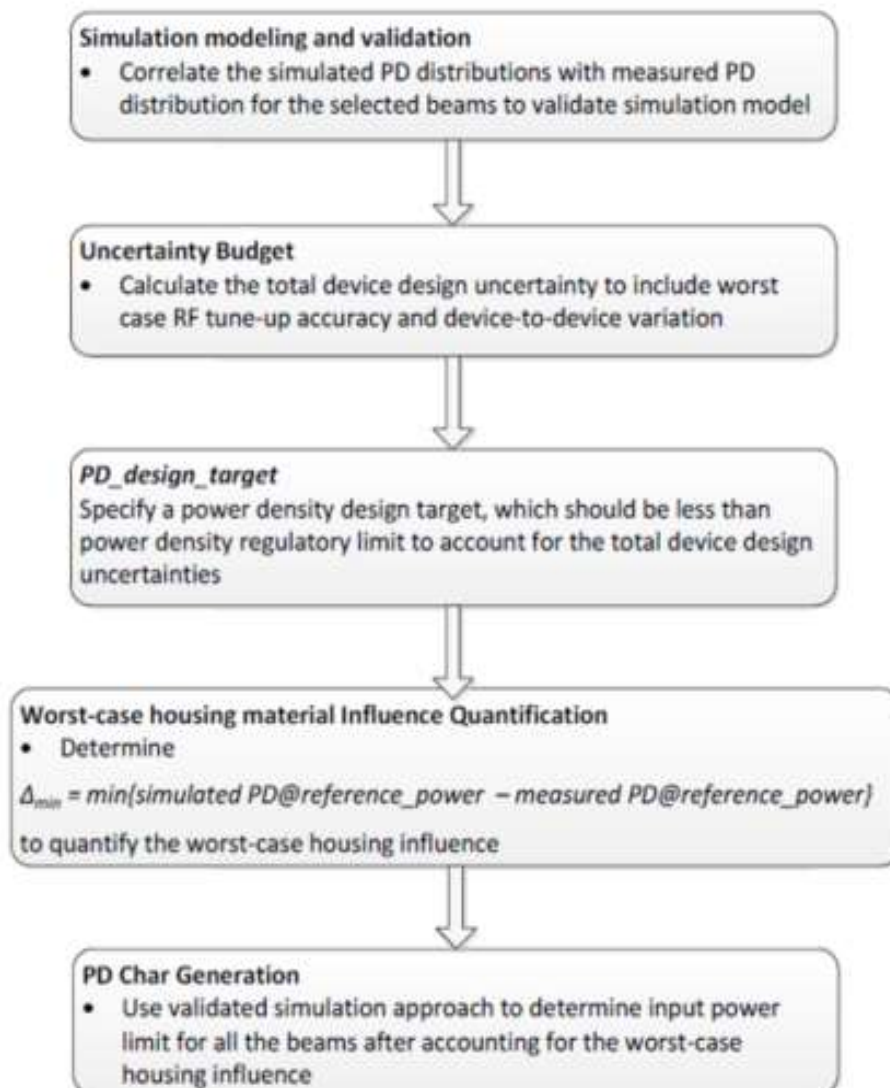


Figure 2: Location of mmW antenna modules looking from front of the DUT – Open

2. Power Density Characterization Method



3. Codebook for all supported beams

Band	Beam_ID	Module	Ant_Type	Paired_With
258	0	K	PATCH	9
258	1	K	PATCH	10
258	2	K	PATCH	11
258	3	K	PATCH	12
258	4	K	PATCH	13
258	5	K	PATCH	14
258	6	K	PATCH	15
258	7	K	PATCH	16
258	8	K	PATCH	17
258	9	K	PATCH	0
258	10	K	PATCH	1
258	11	K	PATCH	2
258	12	K	PATCH	3
258	13	K	PATCH	4
258	14	K	PATCH	5
258	15	K	PATCH	6
258	16	K	PATCH	7
258	17	K	PATCH	8

Band	Beam_ID	Module	Ant_Type	Paired_With
260	0	K	PATCH	9
260	1	K	PATCH	10
260	2	K	PATCH	11
260	3	K	PATCH	12
260	4	K	PATCH	13
260	5	K	PATCH	14
260	6	K	PATCH	15
260	7	K	PATCH	16
260	8	K	PATCH	17
260	9	K	PATCH	0
260	10	K	PATCH	1
260	11	K	PATCH	2
260	12	K	PATCH	3
260	13	K	PATCH	4
260	14	K	PATCH	5
260	15	K	PATCH	6
260	16	K	PATCH	7
260	17	K	PATCH	8

Band	Beam_ID	Module	Ant_Type	Paired_With
261	0	K	PATCH	9
261	1	K	PATCH	10
261	2	K	PATCH	11
261	3	K	PATCH	12
261	4	K	PATCH	13
261	5	K	PATCH	14
261	6	K	PATCH	15
261	7	K	PATCH	16
261	8	K	PATCH	17
261	9	K	PATCH	0
261	10	K	PATCH	1
261	11	K	PATCH	2
261	12	K	PATCH	3
261	13	K	PATCH	4
261	14	K	PATCH	5
261	15	K	PATCH	6
261	16	K	PATCH	7
261	17	K	PATCH	8

4. Simulation and modeling validation

Power density simulations of all beams and surfaces were performed. Details of these simulations and modeling validation can be found in the Power Density Simulation Report. Table below includes a summary of the validation results to support worst-case housing influence quantification in power density characterization for this model.

With an input power of 18 dBm for n258 band, 18 dBm for n261 band, and 18 dBm for n260 band, PD measurements are conducted for at least one single beam per antenna module on worst-surface(s). PD measurements are performed at mid channel of each mmW band. All measured PD values are listed in table below along with corresponding simulated PD values for the same configuration. PD value will be used to determine worst-case housing influence for conservative assessment

Table 5 Folder Open Position

Band	Channel	Module	Type(P or D)	Side	Beam ID	PLS (10 dBm)	Sim. PD (mW/cm ²)	Meas. PD (mW/cm ²)
n261	Mid Ch. 2077915 (27924.96MHz)	K	Patch	Left	1	180	0.498	0.333
				Left	9		0.458	0.394
n260	Mid Ch. 2254165 (38499.96 MHz)	K	Patch	Left	2	180	0.501	0.411
				Left	11		1.469	0.689
n258	Mid Ch. 2025833 (24800.04 MHz)	K	Patch	Left	8	180	0.689	0.333
				Front	8		0.350	0.252
				Left	16		0.383	0.408

Table 6 Folder Closed Position

Band	Channel	Module	Type(P or D)	Side	Beam ID	PLS (10 dBm)	Sim. PD (mW/cm ²)	Meas. PD (mW/cm ²)
n261	Mid Ch. 2077915 (27924.96MHz)	K	Patch	Left	3	180	0.569	0.781
				Left	9		0.454	0.320
n260	Mid Ch. 2254165 (38499.96 MHz)	K	Patch	Left	0	180	0.544	0.310
				Left	11		1.452	0.619
n258	Mid Ch. 2025833 (24800.04 MHz)	K	Patch	Left	7	180	0.695	0.541
				Left	13		0.341	0.374

5. PD_design_target

PD_design_target	
PD_design_target < PD_regulatory_limit x 10-Total Uncertainty/10	
psPD over 4cm ² Averaging Area (mW/cm ²)	
<i>Total Uncertainty</i>	2.3 dB
<i>PD_regulatory_limit</i>	1.0 mW/cm ²
<i>PD_design_target</i>	0.589 mW/cm ²

6. Δ_{min}

For non-metal material, the material property cannot be accurately characterized at mmW frequencies to date. The estimated material property for the device housing is used in the simulation model, which could influence the accuracy in simulation for PD amplitude quantification. Since the housing influence on PD could vary from surface to surface where the EM field propagates through, the most underestimated surface is used to quantify the worst-case housing influence for conservative assessment. Since the mmW antenna modules are placed at different locations, only surrounding material/housing has impact on EM field propagation, and in turn power density. Furthermore, depending on the type of antenna array, i.e., dipole antenna array or patch antenna array, the nature of EM field propagation in the near field is different. Therefore, the worst-case housing influence is determined per antenna module and per antenna type.

For this DUT, the below procedure was used to determine worst-case housing influence, Δ_{min} :

Table 7: Δ_{min} for Ant K (Considered both folder open and close conditions)

Band	Antenna	$\Delta_{min}[\text{dB}]$
NR n261	Patch K	0.66
NR n260	Patch K	2.44
NR n258	Patch K	-0.28

Table 7 Δ_{min} for Ant M represents the worst case where RF exposure is underestimated the most in simulation when using the estimated material property of the housing. For conservative assessment, the Δ_{min} is used as the worst-case factor and applied to all the beams in the corresponding antenna type and antenna module group to determine input power limits in PD char for compliance.

7. Non-Selected Surface Validation

The detail input.power.limit derivation is described in Section 8 .Simulated 4cm² PD values in the Power Density Simulation Report are scaled to input.power.limit and are listed in the tables below for all single beams for all identified surfaces, when assuming the simulation is performed with correct housing influence.

Determine the worst beam for each of non-selected surface(s), identified in the table below:

Table 8 Folder Open Position

Band	Channel	Module	Type	Side	Beam ID	PLS (10 dBm)	Meas. PD (mW/cm ²)
n261	mid	K	Patch	Rear	1	173	0.227
				Front	14	195	0.297
n260	mid	K	Patch	Front	1	173	0.117
				Rear	6	180	0.378
n258	mid	K	Patch	Rear	10	221	0.506

Table 9 Folder Closed Position

Band	Channel	Module	Type	Side	Beam ID	PLS (10 dBm)	Meas. PD (mW/cm ²)
n261	mid	K	Patch	Rear	14	191	0.179
				Front	14	191	0.221
				Top	8	167	0.133
n260	mid	K	Patch	Rear	1	188	0.323
				Front	10	143	0.161
				Top	17	144	0.091
n258	mid	K	Patch	Rear	5	162	0.163
				Front	17	193	0.341
				Top	12	206	0.108

Then perform PD measurement for all determined worst-case beams, highlighted in orange in the tables below, on the corresponding surface. Measurement is performed in the mid channel of each band. The evaluation distance is at 2 mm.

Table 10 Folder Open Position

n261, Ant K, Scaled-up Power Density with Sim.power.limit							
Beam ID	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	Sim.power.limit (dBm)
0	0.014	0.560	0.021	0.001	0.240	0.191	19.21
1	0.011	0.589	0.009	0.001	0.227	0.218	18.73
2	0.008	0.589	0.011	0.002	0.185	0.159	18.97
3	0.008	0.569	0.008	0.003	0.188	0.144	18.62
4	0.008	0.520	0.006	0.002	0.186	0.150	18.34
5	0.016	0.572	0.012	0.001	0.200	0.148	18.61
6	0.021	0.553	0.022	0.002	0.238	0.120	19.89
7	0.014	0.539	0.014	0.003	0.330	0.105	19.84
8	0.010	0.532	0.007	0.002	0.280	0.124	18.56
9	0.011	0.550	0.023	0.006	0.261	0.141	18.79
10	0.012	0.533	0.032	0.007	0.229	0.150	19.26
11	0.016	0.530	0.031	0.006	0.203	0.159	20.47
12	0.023	0.483	0.019	0.006	0.270	0.144	20.40
13	0.019	0.532	0.023	0.004	0.225	0.146	18.91
14	0.032	0.589	0.038	0.004	0.489	0.201	20.88
15	0.021	0.576	0.010	0.002	0.340	0.181	19.96
16	0.021	0.549	0.013	0.003	0.312	0.185	19.04
17	0.026	0.589	0.006	0.005	0.304	0.193	19.28

n260, Ant K, Scaled-up Power Density with Sim.power.limit							
Beam ID	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	Sim.power.limit (dBm)
0	0.002	0.589	0.004	0.001	0.311	0.152	18.71
1	0.002	0.562	0.003	0.001	0.319	0.155	18.79
2	0.002	0.504	0.004	0.001	0.234	0.144	18.03
3	0.003	0.517	0.020	0.002	0.225	0.124	19.00
4	0.003	0.464	0.012	0.006	0.239	0.117	19.67
5	0.003	0.474	0.008	0.001	0.199	0.171	18.72
6	0.006	0.589	0.013	0.003	0.266	0.201	19.48
7	0.005	0.510	0.004	0.002	0.207	0.169	18.57
8	0.004	0.564	0.008	0.000	0.247	0.185	18.64
9	0.006	0.530	0.006	0.001	0.170	0.185	14.36
10	0.003	0.549	0.005	0.001	0.214	0.197	14.18
11	0.001	0.589	0.005	0.002	0.243	0.194	14.03
12	0.001	0.465	0.010	0.001	0.166	0.155	13.25
13	0.005	0.533	0.007	0.007	0.192	0.160	13.83
14	0.002	0.575	0.004	0.004	0.195	0.160	14.50
15	0.003	0.589	0.021	0.001	0.157	0.159	15.21
16	0.002	0.508	0.014	0.004	0.159	0.168	14.93
17	0.004	0.488	0.009	0.006	0.129	0.150	14.30

n258, Ant K, Scaled-up Power Density with Sim.power.limit							
Beam ID	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	Sim.power.limit (dBm)
0	0.020	0.581	0.044	0.004	0.295	0.121	21.65
1	0.008	0.589	0.022	0.003	0.281	0.143	20.07
2	0.020	0.584	0.019	0.004	0.295	0.205	20.69
3	0.027	0.545	0.031	0.003	0.308	0.140	20.24
4	0.014	0.547	0.006	0.005	0.312	0.084	18.23
5	0.011	0.588	0.007	0.003	0.354	0.088	18.10
6	0.018	0.568	0.007	0.001	0.314	0.140	17.78
7	0.018	0.544	0.005	0.001	0.241	0.195	17.12
8	0.006	0.589	0.008	0.002	0.299	0.146	17.31
9	0.005	0.589	0.016	0.001	0.187	0.178	20.60
10	0.015	0.589	0.037	0.002	0.193	0.248	23.51
11	0.009	0.589	0.025	0.008	0.173	0.173	22.15
12	0.011	0.589	0.009	0.017	0.146	0.195	21.90
13	0.008	0.501	0.010	0.008	0.124	0.157	20.06
14	0.016	0.570	0.019	0.010	0.148	0.182	19.99
15	0.014	0.589	0.012	0.010	0.163	0.201	19.87
16	0.007	0.589	0.012	0.004	0.180	0.237	19.87
17	0.007	0.589	0.015	0.003	0.214	0.227	20.42

Table 11 Folder Close Position

n261, Ant K, Scaled-up Power Density with Sim.power.limit							
Beam ID	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	Sim.power.limit (dBm)
0	0.007	0.533	0.020	0.020	0.171	0.135	18.97
1	0.005	0.539	0.011	0.009	0.177	0.144	18.34
2	0.005	0.572	0.027	0.006	0.132	0.131	18.24
3	0.003	0.589	0.040	0.012	0.133	0.107	18.15
4	0.004	0.550	0.040	0.008	0.144	0.093	18.29
5	0.004	0.532	0.026	0.014	0.121	0.108	18.35
6	0.009	0.589	0.016	0.023	0.103	0.123	19.65
7	0.007	0.589	0.052	0.013	0.106	0.185	19.74
8	0.006	0.589	0.055	0.008	0.116	0.184	18.55
9	0.016	0.561	0.029	0.016	0.153	0.115	18.92
10	0.013	0.539	0.025	0.023	0.139	0.089	18.89
11	0.014	0.582	0.028	0.034	0.159	0.096	20.29
12	0.017	0.589	0.039	0.028	0.185	0.139	21.11
13	0.014	0.532	0.032	0.026	0.152	0.117	18.76
14	0.013	0.516	0.046	0.036	0.187	0.229	20.91
15	0.011	0.566	0.017	0.021	0.174	0.136	19.99
16	0.014	0.539	0.016	0.017	0.172	0.106	19.06
17	0.017	0.563	0.019	0.017	0.184	0.133	19.26

n260, Ant K, Scaled-up Power Density with Sim.power.limit							
Beam ID	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	Sim.power.limit (dBm)
0	0.004	0.589	0.009	0.004	0.152	0.150	18.34
1	0.004	0.589	0.011	0.003	0.175	0.166	18.76
2	0.002	0.543	0.014	0.008	0.159	0.143	18.03
3	0.006	0.524	0.009	0.019	0.116	0.117	19.12
4	0.004	0.510	0.035	0.013	0.122	0.115	19.77
5	0.003	0.491	0.040	0.007	0.180	0.096	18.79
6	0.004	0.544	0.016	0.008	0.181	0.125	18.97
7	0.003	0.539	0.033	0.007	0.167	0.130	18.63
8	0.003	0.589	0.027	0.008	0.176	0.144	18.57
9	0.002	0.560	0.037	0.006	0.188	0.104	14.49
10	0.002	0.586	0.015	0.005	0.195	0.122	14.29
11	0.002	0.589	0.007	0.004	0.185	0.130	14.08
12	0.001	0.456	0.005	0.010	0.142	0.090	13.26
13	0.002	0.529	0.023	0.009	0.156	0.092	13.71
14	0.002	0.567	0.046	0.003	0.144	0.108	14.47
15	0.002	0.581	0.035	0.020	0.154	0.079	15.31
16	0.004	0.524	0.033	0.015	0.165	0.101	15.06
17	0.002	0.525	0.054	0.008	0.151	0.073	14.40

n258, Ant K, Scaled-up Power Density with Sim.power.limit							
Beam ID	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	Sim.power.limit (dBm)
0	0.024	0.452	0.020	0.049	0.109	0.089	21.19
1	0.013	0.581	0.022	0.028	0.132	0.090	20.45
2	0.014	0.573	0.035	0.026	0.166	0.128	21.26
3	0.023	0.541	0.050	0.028	0.112	0.159	20.56
4	0.011	0.589	0.057	0.010	0.095	0.180	18.06
5	0.010	0.589	0.048	0.009	0.094	0.207	17.66
6	0.011	0.552	0.026	0.010	0.154	0.200	17.70
7	0.011	0.581	0.016	0.005	0.218	0.181	17.23
8	0.008	0.589	0.014	0.007	0.151	0.170	17.44
9	0.013	0.589	0.012	0.015	0.192	0.060	20.86
10	0.030	0.516	0.017	0.028	0.206	0.053	23.46
11	0.020	0.589	0.034	0.032	0.175	0.070	23.24
12	0.011	0.509	0.077	0.011	0.179	0.060	22.01
13	0.016	0.501	0.053	0.010	0.164	0.041	19.67
14	0.011	0.513	0.057	0.015	0.184	0.043	19.84
15	0.006	0.581	0.058	0.010	0.201	0.061	20.42
16	0.006	0.589	0.041	0.016	0.221	0.077	20.47
17	0.008	0.578	0.021	0.017	0.231	0.081	20.78

8. PD Char

Table 12: Permanent back-off applied to calculated input.power.limit

Band	Antenna	Permanent back-off
		(dB)
n261	Patch K	1.5
n260	Patch K	
n258	Patch K	

Note: The above back-off values have been permanently applied to the input.power.limits calculated from the equations above. The final input.power.limits implemented in the Regy are in the tables below.

n258 K Patch input.power.limit

Antenna	Beam ID_1	Beam ID_2	Input.power.limit(dBm)
K Patch	0	-	19.7
	1	-	18.6
	2	-	19.2
	3	-	18.8
	4	-	16.6
	5	-	16.2
	6	-	16.3
	7	-	15.7
	8	-	15.9
	-	9	19.2
	-	10	22.0
	-	11	20.7
	-	12	20.5
	-	13	18.2
	-	14	18.4
	-	15	18.4
	-	16	18.4
	-	17	19.0
	0	9	16.0
	1	10	15.8
	2	11	16.5
	3	12	15.4
	4	13	13.7
	5	14	13.8
	6	15	13.3
	7	16	13.0
	8	17	13.7

n261 K Patch input.power.limit

Antenna	Beam ID_1	Beam ID_2	Input.power.limit(dBm)
K Patch	0	-	17.2
	1	-	16.5
	2	-	16.4
	3	-	16.3
	4	-	16.5
	5	-	16.5
	6	-	17.8
	7	-	17.9
	8	-	16.7
	-	9	17.1
	-	10	17.1
	-	11	18.5
	-	12	18.9
	-	13	16.9
	-	14	19.1
	-	15	18.2
	-	16	17.2
	-	17	17.4
	0	9	13.4
	1	10	13.2
	2	11	14.1
	3	12	13.8
	4	13	12.8
	5	14	13.4
	6	15	14.3
	7	16	14.2
	8	17	13.5

NR n260 K Patch input.power.limit

Antenna	Beam ID_1	Beam ID_2	Input.power.limit(dBm)
K Patch	0	-	17.3
	1	-	17.3
	2	-	16.6
	3	-	17.6
	4	-	18.2
	5	-	17.3
	6	-	18.0
	7	-	17.1
	8	-	17.2
	-	9	12.9
	-	10	12.7
	-	11	12.6
	-	12	11.8
	-	13	12.4
	-	14	13.0
	-	15	13.8
	-	16	13.5
	-	17	12.9
	0	9	11.5
	1	10	11.2
	2	11	10.9
	3	12	10.4
	4	13	11.0
	5	14	11.2
	6	15	12.3
	7	16	11.8
	8	17	11.5