



RF Exposure Report

(Part 0: SAR Char Evaluation)

FCC ID : A4RGM45K
Equipment : Phone
Model Name : GM45K
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA5N0817-01A	01	Initial issue of report	Apr. 28, 2026

1. Introduction

The RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek TAS (Time Average SAR) feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$) to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR and (referred to as SAR char, respectively) will be used as input for TAS. SAR char will be entered via the MediaTek's NV suggestion to enable the TAS Feature.

The compliance test under static transmission and simultaneous transmission are performed and summarized in Part 1 report. The validation of TAS algorithm under the dynamic transmission scenarios are reported in Part 2. Terminologies for this report are listed up in the table below.

Pmax	Maximum Tx power that can be transmitted physically from RFIC for a given RAT
SAR_FCC_limit	SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure
SAR_target	Target SAR level used in TAS algorithm. This SAR value should be less than FCC limit and should be determined after accounting for all uncertainties and other design considerations.
Plimit	The time-averaged RF power that corresponds to SAR_target
SAR characterization	Characterization of SAR value for all sub6GHz technologies



2. SAR Characterization

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TAS to control and manage RF exposure for $f < 6$ GHz.

2.1 SAR design target and uncertainty

To account for total uncertainty, SAR_design_target should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

Wireless Tech.	Mode	Mode	Antenna	Duty cycle	Head		Hotspot	Body-worn		Body-worn/Extremity		power tolerance (dB)
					ECI 2	ECI 3	ECI 6	ECI 4	ECI 5	ECI 4	ECI 5	
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	Standalone	Simultaneous	
					1g SAR design target (W/Kg)					10g SAR design target (W/Kg)		
GSM	B850	1TX	Ant0	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	1TX	Ant0	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	2TX	Ant0	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	3TX	Ant0	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	4TX	Ant0	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	1TX	Ant0	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	2TX	Ant0	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	3TX	Ant0	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	4TX	Ant0	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GSM	B850	1TX	Ant1	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	1TX	Ant1	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	2TX	Ant1	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	3TX	Ant1	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B850	4TX	Ant1	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	1TX	Ant1	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	2TX	Ant1	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	3TX	Ant1	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B850	4TX	Ant1	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GSM	B1900	1TX	Ant2	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	1TX	Ant2	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	2TX	Ant2	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	3TX	Ant2	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	4TX	Ant2	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	1TX	Ant2	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	2TX	Ant2	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	3TX	Ant2	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	4TX	Ant2	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GSM	B1900	1TX	Ant0	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	1TX	Ant0	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	2TX	Ant0	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	3TX	Ant0	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
GPRS	B1900	4TX	Ant0	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	1TX	Ant0	12.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	2TX	Ant0	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	3TX	Ant0	37.50%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
EGPRS	B1900	4TX	Ant0	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
WCDMA	B2	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
WCDMA	B2	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
WCDMA	B4	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00



WCDMA	B4	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
WCDMA	B5	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
WCDMA	B5	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B2	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B2	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B2	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B2	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B4	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B4	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B4	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B4	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B5 / 5B	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B5 / 5B	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B7 / 7C	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B7 / 7C	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B12	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B12	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B13	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B13	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B14	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B14	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B17	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B17	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B25	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B25	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B25	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B25	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B26	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B26	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B30	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B30	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38 / 38C	PC3	Ant2	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38	PC2	Ant2	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38 / 38C	PC3	Ant0	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38	PC2	Ant0	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38 / 38C	PC3	Ant1	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38	PC2	Ant1	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38 / 38C	PC3	Ant5	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B38	PC2	Ant5	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41 / 41C	PC3	Ant2	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41	PC2	Ant2	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41 / 41C	PC3	Ant0	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41	PC2	Ant0	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41 / 41C	PC3	Ant1	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41	PC2	Ant1	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41 / 41C	PC3	Ant5	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B41	PC2	Ant5	43.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B48	PC3	Ant6	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B48	PC3	Ant7	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B48	PC3	Ant1	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B48	PC3	Ant5	63.30%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B66 / 66C / 66B	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B66 / 66C / 66B	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B66 / 66C / 66B	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B66 / 66C / 66B	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
LTE	B71	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00



LTE	B71	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n2	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n2	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n2	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n2	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n5	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n5	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n7	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n7	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n12	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n12	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n13	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n13	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n14	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n14	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n25	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n25	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n25	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n25	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n26	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n26	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n30	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n30	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n38	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n38	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n38	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n38	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41 / n41C / n41B	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC2	Ant2	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC1.5	Ant2	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41 / n41C / n41B	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC2	Ant0	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC1.5	Ant0	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41 / n41C / n41B	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC2	Ant1	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC1.5	Ant1	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41 / n41C / n41B	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC2	Ant5	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n41	PC1.5	Ant5	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n66	PC3	Ant2	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n66	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n66	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n66	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n71	PC3	Ant0	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n71	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77 / n77C	PC3	Ant6	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC2	Ant6	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC1.5	Ant6	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77 / n77C	PC3	Ant7	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC2	Ant7	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC1.5	Ant7	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77 / n77C	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC2	Ant1	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC1.5	Ant1	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77 / n77C	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n77	PC2	Ant5	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00



NR	n77	PC1.5	Ant5	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC3	Ant6	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC2	Ant6	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC1.5	Ant6	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC3	Ant7	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC2	Ant7	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC1.5	Ant7	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC3	Ant1	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC2	Ant1	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC1.5	Ant1	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC3	Ant5	100.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC2	Ant5	50.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NR	n78	PC1.5	Ant5	25.00%	0.79	0.67	0.67	0.79	0.67	2.62	2.22	1.00
NTN	B23	PC3	Ant5	100.00%						1.76		1.50
NTN	B255	PC3	Ant5	100.00%						1.76		1.50

2.2 SAR Char Table

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TAS to control and manage RF exposure for $f < 6$ GHz.

<P_{limit} for supported technologies and bands>

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + device uncertainty.
- 2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM& LTE TDD & NR TDD).
- 3) The max allowed output power is the P_{limit} + device uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.

Wireless Technology	Mode	Mode	Antenna	Duty cycle	Head		Hotspot	Body-worn/Extremity		P Max Time-average power (dBm)
					ECI 2	ECI 3	ECI 6	ECI 4	ECI 5	
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
					P limit					
Time-average power (dBm)										
GSM	B850	1TX	Ant0	12.50%	29.80	25.60	22.20	22.40	22.20	23.50
GPRS	B850	1TX	Ant0	12.50%	29.80	25.60	22.20	22.40	22.20	23.50
GPRS	B850	2TX	Ant0	25.00%	29.80	25.60	22.20	22.40	22.20	25.30
GPRS	B850	3TX	Ant0	37.50%	29.80	25.60	22.20	22.40	22.20	26.10
GPRS	B850	4TX	Ant0	50.00%	29.80	25.60	22.20	22.40	22.20	26.30
EGPRS	B850	1TX	Ant0	12.50%	29.80	25.60	22.20	22.40	22.20	17.30
EGPRS	B850	2TX	Ant0	25.00%	29.80	25.60	22.20	22.40	22.20	19.30
EGPRS	B850	3TX	Ant0	37.50%	29.80	25.60	22.20	22.40	22.20	20.10
EGPRS	B850	4TX	Ant0	50.00%	29.80	25.60	22.20	22.40	22.20	20.30
GSM	B850	1TX	Ant1	12.50%	23.50	22.80	24.60	26.20	24.60	23.20
GPRS	B850	1TX	Ant1	12.50%	23.50	22.80	24.60	26.20	24.60	23.20
GPRS	B850	2TX	Ant1	25.00%	23.50	22.80	24.60	26.20	24.60	25.00
GPRS	B850	3TX	Ant1	37.50%	23.50	22.80	24.60	26.20	24.60	25.80
GPRS	B850	4TX	Ant1	50.00%	23.50	22.80	24.60	26.20	24.60	26.00
EGPRS	B850	1TX	Ant1	12.50%	23.50	22.80	24.60	26.20	24.60	17.00
EGPRS	B850	2TX	Ant1	25.00%	23.50	22.80	24.60	26.20	24.60	19.00
EGPRS	B850	3TX	Ant1	37.50%	23.50	22.80	24.60	26.20	24.60	19.80
EGPRS	B850	4TX	Ant1	50.00%	23.50	22.80	24.60	26.20	24.60	20.00
GSM	B1900	1TX	Ant2	12.50%	25.00	25.00	18.70	20.30	18.70	20.40
GPRS	B1900	1TX	Ant2	12.50%	25.00	25.00	18.70	20.30	18.70	20.40
GPRS	B1900	2TX	Ant2	25.00%	25.00	25.00	18.70	20.30	18.70	21.90
GPRS	B1900	3TX	Ant2	37.50%	25.00	25.00	18.70	20.30	18.70	23.20
GPRS	B1900	4TX	Ant2	50.00%	25.00	25.00	18.70	20.30	18.70	23.40
EGPRS	B1900	1TX	Ant2	12.50%	25.00	25.00	18.70	20.30	18.70	16.40
EGPRS	B1900	2TX	Ant2	25.00%	25.00	25.00	18.70	20.30	18.70	18.40
EGPRS	B1900	3TX	Ant2	37.50%	25.00	25.00	18.70	20.30	18.70	19.20
EGPRS	B1900	4TX	Ant2	50.00%	25.00	25.00	18.70	20.30	18.70	19.40
GSM	B1900	1TX	Ant0	12.50%	36.10	36.10	14.20	15.60	14.20	20.30
GPRS	B1900	1TX	Ant0	12.50%	36.10	36.10	14.20	15.60	14.20	20.30
GPRS	B1900	2TX	Ant0	25.00%	36.10	36.10	14.20	15.60	14.20	21.80
GPRS	B1900	3TX	Ant0	37.50%	36.10	36.10	14.20	15.60	14.20	23.10
GPRS	B1900	4TX	Ant0	50.00%	36.10	36.10	14.20	15.60	14.20	23.30
EGPRS	B1900	1TX	Ant0	12.50%	36.10	36.10	14.20	15.60	14.20	16.30
EGPRS	B1900	2TX	Ant0	25.00%	36.10	36.10	14.20	15.60	14.20	18.30
EGPRS	B1900	3TX	Ant0	37.50%	36.10	36.10	14.20	15.60	14.20	19.10
EGPRS	B1900	4TX	Ant0	50.00%	36.10	36.10	14.20	15.60	14.20	19.30
WCDMA	B2	PC3	Ant2	100.00%	27.80	27.80	18.50	19.90	18.50	24.00



WCDMA	B2	PC3	Ant0	100.00%	35.30	35.30	13.50	15.30	13.50	23.90
WCDMA	B4	PC3	Ant2	100.00%	27.40	27.40	19.40	20.80	19.40	24.00
WCDMA	B4	PC3	Ant0	100.00%	37.00	37.00	14.30	15.70	14.30	23.80
WCDMA	B5	PC3	Ant0	100.00%	53.00	53.00	21.00	21.00	21.00	24.00
WCDMA	B5	PC3	Ant1	100.00%	23.00	22.20	24.50	24.90	24.50	23.70
LTE	B2	PC3	Ant2	100.00%	25.40	25.40	17.90	19.20	17.90	24.00
LTE	B2	PC3	Ant0	100.00%	35.00	35.00	13.80	14.80	13.80	23.90
LTE	B2	PC3	Ant1	100.00%	17.70	16.90	18.80	19.60	18.80	24.00
LTE	B2	PC3	Ant5	100.00%	17.20	14.90	16.60	18.00	16.60	23.90
LTE	B4	PC3	Ant2	100.00%	27.80	27.80	19.40	20.80	19.40	24.00
LTE	B4	PC3	Ant0	100.00%	52.90	52.90	13.90	15.30	13.90	23.80
LTE	B4	PC3	Ant1	100.00%	19.00	18.30	20.20	21.00	20.20	24.00
LTE	B4	PC3	Ant5	100.00%	16.90	15.80	16.10	17.90	16.10	23.90
LTE	B5 / 5B	PC3	Ant0	100.00%	27.60	26.80	20.70	20.70	20.70	24.00
LTE	B5 / 5B	PC3	Ant1	100.00%	22.60	21.90	23.20	25.10	23.20	23.70
LTE	B7 / 7C	PC3	Ant2	100.00%	22.30	22.20	16.00	17.70	16.00	24.00
LTE	B7 / 7C	PC3	Ant0	100.00%	31.80	31.80	14.50	16.90	14.50	23.90
LTE	B12	PC3	Ant0	100.00%	29.00	28.30	22.50	25.00	22.50	24.00
LTE	B12	PC3	Ant1	100.00%	23.10	22.40	25.60	26.40	25.60	23.80
LTE	B13	PC3	Ant0	100.00%	28.00	27.30	21.10	21.40	21.10	24.00
LTE	B13	PC3	Ant1	100.00%	23.60	22.90	22.40	25.60	22.40	23.80
LTE	B14	PC3	Ant0	100.00%	28.00	27.30	21.30	21.30	21.30	24.00
LTE	B14	PC3	Ant1	100.00%	22.70	22.00	21.90	25.40	21.90	23.80
LTE	B17	PC3	Ant0	100.00%	29.00	28.30	22.50	25.00	22.50	24.00
LTE	B17	PC3	Ant1	100.00%	23.10	22.40	25.60	26.40	25.60	23.80
LTE	B25	PC3	Ant2	100.00%	25.40	25.40	17.90	19.20	17.90	24.00
LTE	B25	PC3	Ant0	100.00%	35.00	35.00	13.80	14.80	13.80	23.90
LTE	B25	PC3	Ant1	100.00%	17.70	16.90	18.80	19.60	18.80	24.00
LTE	B25	PC3	Ant5	100.00%	17.20	14.90	16.60	18.00	16.60	23.90
LTE	B26	PC3	Ant0	100.00%	27.60	26.80	20.70	20.70	20.70	24.00
LTE	B26	PC3	Ant1	100.00%	22.60	21.90	23.20	25.10	23.20	23.70
LTE	B30	PC3	Ant2	100.00%	23.10	23.00	16.60	18.00	16.60	23.60
LTE	B30	PC3	Ant0	100.00%	34.50	34.50	14.30	15.70	14.30	23.60
LTE	B38 / 38C	PC3	Ant2	63.30%	23.50	23.50	16.10	17.50	16.10	22.00
LTE	B38	PC2	Ant2	43.30%	23.50	23.50	16.10	17.50	16.10	22.30
LTE	B38 / 38C	PC3	Ant0	63.30%	32.30	32.30	14.70	16.90	14.70	21.90
LTE	B38	PC2	Ant0	43.30%	32.30	32.30	14.70	16.90	14.70	22.20
LTE	B38 / 38C	PC3	Ant1	63.30%	20.30	19.60	19.40	19.50	19.40	22.00
LTE	B38	PC2	Ant1	43.30%	20.30	19.60	19.40	19.50	19.40	22.30
LTE	B38 / 38C	PC3	Ant5	63.30%	14.40	13.40	14.80	17.70	14.80	21.80
LTE	B38	PC2	Ant5	43.30%	14.40	13.40	14.80	17.70	14.80	22.10
LTE	B41 / 41C	PC3	Ant2	63.30%	23.50	23.50	16.10	17.50	16.10	22.00
LTE	B41	PC2	Ant2	43.30%	23.50	23.50	16.10	17.50	16.10	22.30
LTE	B41 / 41C	PC3	Ant0	63.30%	32.30	32.30	14.70	16.90	14.70	22.00
LTE	B41	PC2	Ant0	43.30%	32.30	32.30	14.70	16.90	14.70	22.30
LTE	B41 / 41C	PC3	Ant1	63.30%	20.30	19.60	19.40	19.50	19.40	22.00
LTE	B41	PC2	Ant1	43.30%	20.30	19.60	19.40	19.50	19.40	22.30
LTE	B41 / 41C	PC3	Ant5	63.30%	14.40	13.40	14.80	17.70	14.80	21.80
LTE	B41	PC2	Ant5	43.30%	14.40	13.40	14.80	17.70	14.80	22.10
LTE	B48	PC3	Ant6	63.30%	26.70	26.70	16.00	17.40	16.00	21.20
LTE	B48	PC3	Ant7	63.30%	27.80	27.80	15.10	16.50	15.10	19.70
LTE	B48	PC3	Ant1	63.30%	15.10	14.40	14.10	16.80	14.10	22.10
LTE	B48	PC3	Ant5	63.30%	17.00	15.80	18.90	18.90	18.90	21.30
LTE	B66 / 66C / 66B	PC3	Ant2	100.00%	27.80	27.80	19.40	20.80	19.40	24.00
LTE	B66 / 66C / 66B	PC3	Ant0	100.00%	52.90	52.90	13.90	15.30	13.90	24.00
LTE	B66 / 66C / 66B	PC3	Ant1	100.00%	19.00	18.30	20.20	21.00	20.20	24.00



LTE	B66 / 66C / 66B	PC3	Ant5	100.00%	16.90	15.80	16.10	17.90	16.10	23.90
LTE	B71	PC3	Ant0	100.00%	29.30	28.60	22.90	24.30	22.90	24.00
LTE	B71	PC3	Ant1	100.00%	23.70	23.00	26.00	27.50	26.00	23.80
NR	n2	PC3	Ant2	100.00%	25.70	25.70	18.90	20.30	18.90	24.00
NR	n2	PC3	Ant0	100.00%	34.70	34.70	14.00	14.70	14.00	23.90
NR	n2	PC3	Ant1	100.00%	17.60	17.60	19.20	19.90	19.20	24.00
NR	n2	PC3	Ant5	100.00%	17.50	16.10	17.40	18.80	17.40	23.90
NR	n5	PC3	Ant0	100.00%	27.70	27.00	20.70	20.70	20.70	24.00
NR	n5	PC3	Ant1	100.00%	22.90	22.10	23.10	25.20	23.10	23.70
NR	n7	PC3	Ant2	100.00%	22.50	22.00	16.00	18.00	16.00	24.00
NR	n7	PC3	Ant0	100.00%	30.80	30.80	14.40	16.80	14.40	23.90
NR	n12	PC3	Ant0	100.00%	28.50	27.80	22.20	22.90	22.20	24.00
NR	n12	PC3	Ant1	100.00%	23.70	23.00	26.30	26.40	26.30	23.80
NR	n13	PC3	Ant0	100.00%	27.90	27.20	21.50	21.50	21.50	24.00
NR	n13	PC3	Ant1	100.00%	22.70	22.00	22.30	26.60	22.30	23.80
NR	n14	PC3	Ant0	100.00%	28.10	27.40	21.50	21.70	21.50	24.00
NR	n14	PC3	Ant1	100.00%	22.80	22.10	22.70	25.60	22.70	23.80
NR	n25	PC3	Ant2	100.00%	25.70	25.70	18.90	20.30	18.90	24.00
NR	n25	PC3	Ant0	100.00%	34.70	34.70	14.00	14.70	14.00	23.90
NR	n25	PC3	Ant1	100.00%	17.60	17.60	19.20	19.90	19.20	24.00
NR	n25	PC3	Ant5	100.00%	17.50	16.10	17.40	18.80	17.40	23.90
NR	n26	PC3	Ant0	100.00%	27.70	27.00	20.70	20.70	20.70	24.00
NR	n26	PC3	Ant1	100.00%	22.90	22.10	23.10	25.20	23.10	23.70
NR	n30	PC3	Ant2	100.00%	24.80	24.80	17.00	18.40	17.00	23.60
NR	n30	PC3	Ant0	100.00%	33.50	33.50	14.80	16.20	14.80	23.60
NR	n38	PC3	Ant2	100.00%	22.80	22.40	16.10	17.70	16.10	24.00
NR	n38	PC3	Ant0	100.00%	32.00	32.00	15.10	16.80	15.10	23.90
NR	n38	PC3	Ant1	100.00%	17.50	16.80	16.30	19.30	16.30	24.00
NR	n38	PC3	Ant5	100.00%	15.30	15.30	15.30	16.90	15.30	23.80
NR	n41 / n41C / n41B	PC3	Ant2	100.00%	22.80	22.40	16.10	17.70	16.10	24.00
NR	n41	PC2	Ant2	50.00%	22.80	22.40	16.10	17.70	16.10	22.90
NR	n41	PC1P5	Ant2	25.00%	22.80	22.40	16.10	17.70	16.10	19.90
NR	n41 / n41C / n41B	PC3	Ant0	100.00%	32.00	32.00	15.10	16.80	15.10	24.00
NR	n41	PC2	Ant0	50.00%	32.00	32.00	15.10	16.80	15.10	22.90
NR	n41	PC1P5	Ant0	25.00%	32.00	32.00	15.10	16.80	15.10	19.90
NR	n41 / n41C / n41B	PC3	Ant1	100.00%	17.50	16.80	16.30	19.30	16.30	24.00
NR	n41	PC2	Ant1	50.00%	17.50	16.80	16.30	19.30	16.30	22.90
NR	n41	PC1P5	Ant1	25.00%	17.50	16.80	16.30	19.30	16.30	19.90
NR	n41 / n41C / n41B	PC3	Ant5	100.00%	15.30	15.30	15.30	16.90	15.30	23.80
NR	n41	PC2	Ant5	50.00%	15.30	15.30	15.30	16.90	15.30	22.70
NR	n41	PC1P5	Ant5	25.00%	15.30	15.30	15.30	16.90	15.30	19.70
NR	n66	PC3	Ant2	100.00%	27.60	27.60	20.30	20.80	20.30	24.00
NR	n66	PC3	Ant0	100.00%	34.40	34.40	14.10	15.50	14.10	23.80
NR	n66	PC3	Ant1	100.00%	20.80	20.10	22.00	23.10	22.00	24.00
NR	n66	PC3	Ant5	100.00%	17.60	16.30	16.90	18.30	16.90	23.90
NR	n71	PC3	Ant0	100.00%	29.50	28.80	23.80	23.80	23.80	24.00
NR	n71	PC3	Ant1	100.00%	24.10	23.40	26.10	26.90	26.10	23.80
NR	n77 / n77C	PC3	Ant6	100.00%	23.60	21.00	15.60	16.90	15.60	24.10
NR	n77	PC2	Ant6	50.00%	23.60	21.00	15.60	16.90	15.60	23.10
NR	n77	PC1P5	Ant6	25.00%	23.60	21.00	15.60	16.90	15.60	20.10
NR	n77 / n77C	PC3	Ant7	100.00%	25.00	23.20	14.30	15.70	14.30	23.80
NR	n77	PC2	Ant7	50.00%	25.00	23.20	14.30	15.70	14.30	22.80
NR	n77	PC1P5	Ant7	25.00%	25.00	23.20	14.30	15.70	14.30	19.80
NR	n77 / n77C	PC3	Ant1	100.00%	14.60	13.90	13.70	16.30	13.70	24.10
NR	n77	PC2	Ant1	50.00%	14.60	13.90	13.70	16.30	13.70	23.10
NR	n77	PC1P5	Ant1	25.00%	14.60	13.90	13.70	16.30	13.70	20.10



NR	n77 / n77C	PC3	Ant5	100.00%	15.60	14.70	17.40	18.10	17.40	23.50
NR	n77	PC2	Ant5	50.00%	15.60	14.70	17.40	18.10	17.40	22.50
NR	n77	PC1P5	Ant5	25.00%	15.60	14.70	17.40	18.10	17.40	19.50
NR	n78	PC3	Ant6	100.00%	23.60	21.00	15.60	16.90	15.60	24.10
NR	n78	PC2	Ant6	50.00%	23.60	21.00	15.60	16.90	15.60	23.10
NR	n78	PC1P5	Ant6	25.00%	23.60	21.00	15.60	16.90	15.60	20.10
NR	n78	PC3	Ant7	100.00%	25.00	23.20	14.30	15.70	14.30	23.80
NR	n78	PC2	Ant7	50.00%	25.00	23.20	14.30	15.70	14.30	22.80
NR	n78	PC1P5	Ant7	25.00%	25.00	23.20	14.30	15.70	14.30	19.80
NR	n78	PC3	Ant1	100.00%	14.60	13.90	13.70	16.30	13.70	24.10
NR	n78	PC2	Ant1	50.00%	14.60	13.90	13.70	16.30	13.70	23.10
NR	n78	PC1P5	Ant1	25.00%	14.60	13.90	13.70	16.30	13.70	20.10
NR	n78	PC3	Ant5	100.00%	15.60	14.70	17.40	18.10	17.40	23.30
NR	n78	PC2	Ant5	50.00%	15.60	14.70	17.40	18.10	17.40	22.30
NR	n78	PC1P5	Ant5	25.00%	15.60	14.70	17.40	18.10	17.40	19.30
NTN	B23	PC3	Ant5	100.00%				20.60		23.50
NTN	B255	PC3	Ant5	100.00%				18.20		23.50