



RF Exposure Report

(Part 0: SAR Char Evaluation)

FCC ID : 2AJN7-TP00172C
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00172C
Applicant : LC Future Center Limited Taiwan Branch
7F., No.780, Beian Rd., Zhongshan Dist., Taipei
104, Taiwan
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.

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Approved by: Cona Huang / Deputy Manager

Sporton International Inc. Wensan Laboratory



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History of this test report

Report No.	Version	Description	Issued Date
FA5D1722-02A	01	Initial issue of report	Jul. 06, 2026

1. Introduction

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<Terminologies in this report>

Plimit	The time-averaged RF power which corresponds to SAR_design_target.
Pmax	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties.
SAR char	Plimit for all the technologies/bands for all applicable DSI

<SAR design target and uncertainty>

Band	Antenna	Duty cycle	1g SAR design target (W/kg)	Tolerance (dB)
WCDMA_B2	Main	100.00%	0.95	1
WCDMA_B4	Main	100.00%	0.95	1
WCDMA_B5	Main	100.00%	0.95	1
LTE_B2	Main	100.00%	0.95	1
LTE_B2	MIMO2	100.00%	0.95	1
LTE_B4	Main	100.00%	0.95	1
LTE_B4	MIMO2	100.00%	0.95	1
LTE_B5	Main	100.00%	0.95	1
LTE_B7	Main	100.00%	0.95	1
LTE_B7	MIMO2	100.00%	0.95	1
LTE_B12	Main	100.00%	0.95	1
LTE_B13	Main	100.00%	0.95	1
LTE_B14	Main	100.00%	0.95	1
LTE_B17	Main	100.00%	0.95	1
LTE_B25	Main	100.00%	0.95	1
LTE_B25	MIMO2	100.00%	0.95	1
LTE_B26	Main	100.00%	0.95	1
LTE_B30	Main	100.00%	0.95	1
LTE_B30	MIMO2	100.00%	0.95	1
LTE_B38	Main	63.30%	0.95	1
LTE_B41	Main	63.30%	0.95	1
LTE_B41(PC2)	Main	43.30%	0.95	1
LTE_B41	MIMO2	63.30%	0.95	1
LTE_B41(PC2)	MIMO2	43.30%	0.95	1
LTE_B42	Main	63.30%	0.95	1
LTE_B43	Main	63.30%	0.95	1
LTE_B48	Main	63.30%	0.95	1
LTE_B48	MIMO2	63.30%	0.95	1
LTE_B66	Main	100.00%	0.95	1
LTE_B66	MIMO2	100.00%	0.95	1
LTE_B71	Main	100.00%	0.95	1
NR5G_N2	Main	100.00%	0.95	1
NR5G_N2	MIMO2	100.00%	0.95	1
NR5G_N5	Main	100.00%	0.95	1
NR5G_N7	Main	100.00%	0.95	1

NR5G_N7	MIMO2	100.00%	0.95	1
NR5G_N12	Main	100.00%	0.95	1
NR5G_N13	Main	100.00%	0.95	1
NR5G_N14	Main	100.00%	0.95	1
NR5G_N25	Main	100.00%	0.95	1
NR5G_N25	MIMO2	100.00%	0.95	1
NR5G_N26	Main	100.00%	0.95	1
NR5G_N30	Main	100.00%	0.95	1
NR5G_N30	MIMO2	100.00%	0.95	1
NR5G_N38	Main	100.00%	0.95	1
NR5G_N38	MIMO2	100.00%	0.95	1
NR5G_N41	Main	100.00%	0.95	1
NR5G_N41(PC2)	Main	50.00%	0.95	1
NR5G_N41(PC1.5)	Main	50.00%	0.95	1
NR5G_N41	MIMO2	100.00%	0.95	1
NR5G_N41(PC2)	MIMO2	50.00%	0.95	1
NR5G_N41(PC1.5)	MIMO2	50.00%	0.95	1
NR5G_N41	MIMO1	100.00%	0.95	1
NR5G_N41(PC2)	MIMO1	50.00%	0.95	1
NR5G_N41(PC1.5)	MIMO1	50.00%	0.95	1
NR5G_N41	Aux	100.00%	0.95	1
NR5G_N41(PC2)	Aux	50.00%	0.95	1
NR5G_N41(PC1.5)	Aux	50.00%	0.95	1
NR5G_N48	Main	100.00%	0.95	1
NR5G_N48	MIMO2	100.00%	0.95	1
NR5G_N66	Main	100.00%	0.95	1
NR5G_N66	MIMO2	100.00%	0.95	1
NR5G_N71	Main	100.00%	0.95	1
NR5G_N77	Main	100.00%	0.95	1
NR5G_N77(PC2)	Main	50.00%	0.95	1
NR5G_N77(PC1.5)	Main	50.00%	0.95	1
NR5G_N77	MIMO2	100.00%	0.95	1
NR5G_N77(PC2)	MIMO2	50.00%	0.95	1
NR5G_N77(PC1.5)	MIMO2	50.00%	0.95	1
NR5G_N77	MIMO1	100.00%	0.95	1
NR5G_N77(PC2)	MIMO1	50.00%	0.95	1
NR5G_N77(PC1.5)	MIMO1	50.00%	0.95	1
NR5G_N77	Aux	100.00%	0.95	1
NR5G_N77(PC2)	Aux	50.00%	0.95	1
NR5G_N77(PC1.5)	Aux	50.00%	0.95	1
NR5G_N78	Main	100.00%	0.95	1
NR5G_N78(PC2)	Main	50.00%	0.95	1
NR5G_N78(PC1.5)	Main	50.00%	0.95	1
NR5G_N78	MIMO2	100.00%	0.95	1
NR5G_N78(PC2)	MIMO2	50.00%	0.95	1
NR5G_N78(PC1.5)	MIMO2	50.00%	0.95	1
NR5G_N78	MIMO1	100.00%	0.95	1
NR5G_N78(PC2)	MIMO1	50.00%	0.95	1
NR5G_N78(PC1.5)	MIMO1	50.00%	0.95	1
NR5G_N78	Aux	100.00%	0.95	1
NR5G_N78(PC2)	Aux	50.00%	0.95	1
NR5G_N78(PC1.5)	Aux	50.00%	0.95	1

To account for total uncertainty, SAR_{design_target} should be determined as:

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

<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 Smart Transmit to control and manage RF exposure for $f < 6$ GHz.

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

1. *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1dB uncertainty.
2. **All Plimit 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 Plimit + 1dB device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

Band	Antenna	Duty cycle	Plimit	Pmax (dBm)
WCDMA_B2	Main	100.00%	17.1	23.5
WCDMA_B4	Main	100.00%	17.9	23.5
WCDMA_B5	Main	100.00%	18	23.5
LTE_B2	Main	100.00%	17.1	23.0
LTE_B2	MIMO2	100.00%	19.3	23.0
LTE_B4	Main	100.00%	17.9	23.0
LTE_B4	MIMO2	100.00%	18.8	23.0
LTE_B5	Main	100.00%	17.9	23.5
LTE_B7	Main	100.00%	16	23.0
LTE_B7	MIMO2	100.00%	17.2	23.0
LTE_B12	Main	100.00%	19.8	23.5
LTE_B13	Main	100.00%	18.7	23.5
LTE_B14	Main	100.00%	18.3	23.5
LTE_B17	Main	100.00%	19.8	23.5
LTE_B25	Main	100.00%	17.1	23.0
LTE_B25	MIMO2	100.00%	19.3	23.0
LTE_B26	Main	100.00%	17.9	23.5
LTE_B30	Main	100.00%	16.5	22.0
LTE_B30	MIMO2	100.00%	18.9	22.0
LTE_B38	Main	63.30%	16.1	21.0
LTE_B41	Main	63.30%	16.1	21.0
LTE_B41(PC2)	Main	43.30%		22.4
LTE_B41	MIMO2	63.30%	15.6	21.0
LTE_B41(PC2)	MIMO2	43.30%		22.4
LTE_B42	Main	63.30%	14.6	21.0
LTE_B43	Main	63.30%	13.8	21.0
LTE_B48	Main	63.30%	14.6	19.0
LTE_B48	MIMO2	63.30%	17.5	19.0
LTE_B66	Main	100.00%	17.9	23.0
LTE_B66	MIMO2	100.00%	18.8	23.0
LTE_B71	Main	100.00%	20.5	23.5
NR5G_N2	Main	100.00%	17.2	23.0
NR5G_N2	MIMO2	100.00%	19.4	23.0
NR5G_N5	Main	100.00%	18	23.5
NR5G_N7	Main	100.00%	16	23.0
NR5G_N7	MIMO2	100.00%	17.6	23.0
NR5G_N12	Main	100.00%	19.8	23.5
NR5G_N13	Main	100.00%	19	23.5
NR5G_N14	Main	100.00%	18.5	23.5
NR5G_N25	Main	100.00%	17.2	23.0
NR5G_N25	MIMO2	100.00%	19.4	23.0
NR5G_N26	Main	100.00%	18	23.5



NR5G_N30	Main	100.00%	16.8	22.0
NR5G_N30	MIMO2	100.00%	19.2	22.0
NR5G_N38	Main	100.00%	16	23.0
NR5G_N38	MIMO2	100.00%	15.5	23.0
NR5G_N41	Main	100.00%	16	23.0
NR5G_N41(PC2)	Main	50.00%		23.0
NR5G_N41(PC1.5)	Main	25.00%		22.0
NR5G_N41	MIMO2	100.00%	15.5	23.0
NR5G_N41(PC2)	MIMO2	50.00%		23.0
NR5G_N41(PC1.5)	MIMO2	25.00%		22.0
NR5G_N41	MIMO1	100.00%	15	23.0
NR5G_N41(PC2)	MIMO1	50.00%		23.0
NR5G_N41(PC1.5)	MIMO1	25.00%		22.0
NR5G_N41	Aux	100.00%	18.3	23.0
NR5G_N41(PC2)	Aux	50.00%		23.0
NR5G_N41(PC1.5)	Aux	25.00%		22.0
NR5G_N48	Main	100.00%	13.3	21.0
NR5G_N48	MIMO2	100.00%	17.1	21.0
NR5G_N66	Main	100.00%	17.9	23.0
NR5G_N66	MIMO2	100.00%	18.8	23.0
NR5G_N71	Main	100.00%	20.6	23.5
NR5G_N77	Main	100.00%	13.6	23.0
NR5G_N77(PC2)	Main	50.00%		23.0
NR5G_N77(PC1.5)	Main	25.00%		22.0
NR5G_N77	MIMO2	100.00%	15.3	23.0
NR5G_N77(PC2)	MIMO2	50.00%		23.0
NR5G_N77(PC1.5)	MIMO2	25.00%		22.0
NR5G_N77	MIMO1	100.00%	12.6	23.0
NR5G_N77(PC2)	MIMO1	50.00%		23.0
NR5G_N77(PC1.5)	MIMO1	25.00%		22.0
NR5G_N77	Aux	100.00%	16.5	23.0
NR5G_N77(PC2)	Aux	50.00%		23.0
NR5G_N77(PC1.5)	Aux	25.00%		22.0
NR5G_N78	Main	100.00%	13.6	23.0
NR5G_N78(PC2)	Main	50.00%		23.0
NR5G_N78(PC1.5)	Main	25.00%		22.0
NR5G_N78	MIMO2	100.00%	15.3	23.0
NR5G_N78(PC2)	MIMO2	50.00%		23.0
NR5G_N78(PC1.5)	MIMO2	25.00%		22.0
NR5G_N78	MIMO1	100.00%	12.6	23.0
NR5G_N78(PC2)	MIMO1	50.00%		23.0
NR5G_N78(PC1.5)	MIMO1	25.00%		22.0
NR5G_N78	Aux	100.00%	16.5	23.0
NR5G_N78(PC2)	Aux	50.00%		23.0
NR5G_N78(PC1.5)	Aux	25.00%		22.0