RF Exposure Report

(Part 0: SAR Char Evaluation)

FCC ID	**: B94HNI65C4BLV**
Equipment	**: Notebook Computer**
Brand Name	**: HP**
Model Name	**: HSN-I65C-4**
Applicant	**: HP Inc. 1501 Page Mill Road, Palo Alto CA, 94304, 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.

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History of this test report

Report No.	Version	Description	Issued Date
FA591806-02A	01	Initial issue of report	Mar. 17, 2026

1. General Information

Product Feature & Specification	
Equipment Name	Notebook Computer
Brand Name	HP
Model Name	HSN-I65C-4
FCC ID	B94HNI65C4BLV
Integrated WWAN Module	Brand Name: Compal Model Name: RMM-G4
Integrated WLAN Module	Brand Name: Intel Model Name: BE211D2W
Integrated NFC Module	Brand Name: WNC Model Name: XRAV-1
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz WLAN 6GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK

2. Introduction

The RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window 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. TA-SAR cannot operate without SAR characterization at the device level, beforehand.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input to the Time Average SAR (TA-SAR) Gen2 algorithm for WWAN bands. SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR Feature.

<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 ECI

<SAR design target and uncertainty>

Band	Antenna	Duty Cycle (%)	1g SAR Design Target (W/kg)	Tolerance (dB)
WCDMA B2	Ant 5	100	0.96	1
WCDMA B4	Ant 5	100	0.96	1
WCDMA B5	Ant 5	100	0.96	1
LTE B2	Ant 5	100	0.96	1
LTE B2	Ant 8	100	0.96	1
LTE B4	Ant 5	100	0.96	1
LTE B4	Ant 8	100	0.96	1
LTE B5	Ant 5	100	0.96	1
LTE B7	Ant 5	100	0.96	1
LTE B7	Ant 8	100	0.96	1
LTE B12	Ant 5	100	0.96	1
LTE B13	Ant 5	100	0.96	1
LTE B14	Ant 5	100	0.96	1
LTE B17	Ant 5	100	0.96	1
LTE B25	Ant 5	100	0.96	1
LTE B25	Ant 8	100	0.96	1
LTE B26	Ant 5	100	0.96	1
LTE B30	Ant 5	100	0.96	1
LTE B30	Ant 8	100	0.96	1
LTE B66	Ant 5	100	0.96	1
LTE B66	Ant 8	100	0.96	1
LTE B71	Ant 5	100	0.96	1
LTE B38	Ant 5	63.3	0.96	1
LTE B38	Ant 8	63.3	0.96	1
LTE B41	Ant 5	63.3	0.96	1

LTE B41	Ant 8	63.3	0.96	1
LTE B48	Ant 5	63.3	0.96	1
LTE B48	Ant 8	63.3	0.96	1
FR1 n2	Ant 5	100	0.96	1
FR1 n2	Ant 8	100	0.96	1
FR1 n5	Ant 5	100	0.96	1
FR1 n7	Ant 5	100	0.96	1
FR1 n7	Ant 8	100	0.96	1
FR1 n12	Ant 5	100	0.96	1
FR1 n13	Ant 5	100	0.96	1
FR1 n14	Ant 5	100	0.96	1
FR1 n25	Ant 5	100	0.96	1
FR1 n25	Ant 8	100	0.96	1
FR1 n26	Ant 5	100	0.96	1
FR1 n30	Ant 5	100	0.96	1
FR1 n30	Ant 8	100	0.96	1
FR1 n66	Ant 5	100	0.96	1
FR1 n66	Ant 8	100	0.96	1
FR1 n71	Ant 5	100	0.96	1
FR1 n38	Ant 5	100	0.96	1
FR1 n38	Ant 8	100	0.96	1
FR1 n41 PC3	Ant 5	100	0.96	1
FR1 n41 PC3	Ant 8	100	0.96	1
FR1 n41 PC2	Ant 5	50	0.96	1
FR1 n41 PC2	Ant 8	50	0.96	1
FR1 n48	Ant 5	100	0.96	1
FR1 n48	Ant 8	100	0.96	1
FR1 n77 PC3	Ant 5	100	0.96	1
FR1 n77 PC3	Ant 8	100	0.96	1
FR1 n77 PC2	Ant 5	50	0.96	1
FR1 n77 PC2	Ant 8	50	0.96	1
FR1 n78 PC3	Ant 5	100	0.96	1
FR1 n78 PC3	Ant 8	100	0.96	1
FR1 n78 PC2	Ant 5	50	0.96	1
FR1 n78 PC2	Ant 8	50	0.96	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 TA-SAR Gen2 algorithm to control and manage RF exposure for f < 6 GHz.

<P_{limit} for supported technologies and bands>

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

Band	Antenna	Duty Cycle (%)	Plimit for Laptop (dBm)	Pmax*
WCDMA B2	Ant 5	100	15.5	24.0
WCDMA B4	Ant 5	100	16	24.0
WCDMA B5	Ant 5	100	15.5	24.0
LTE B2	Ant 5	100	15.5	24.0
LTE B2	Ant 8	100	13	24.0
LTE B4	Ant 5	100	16	24.0
LTE B4	Ant 8	100	14	24.0
LTE B5	Ant 5	100	15.5	24.0
LTE B7	Ant 5	100	14	24.0
LTE B7	Ant 8	100	12	24.0
LTE B12	Ant 5	100	15.5	24.0
LTE B13	Ant 5	100	15.5	24.0
LTE B14	Ant 5	100	15.5	24.0
LTE B17	Ant 5	100	19	24.0
LTE B25	Ant 5	100	17	24.0
LTE B25	Ant 8	100	13	24.0
LTE B26	Ant 5	100	16.5	24.0
LTE B30	Ant 5	100	14.5	22.0
LTE B30	Ant 8	100	13.5	24.0
LTE B66	Ant 5	100	15.5	24.0
LTE B66	Ant 8	100	14	24.0
LTE B71	Ant 5	100	17	24.0
LTE B38	Ant 5	63.3	15	22.0
LTE B38	Ant 8	63.3	10	22.0
LTE B41	Ant 5	63.3	15	22.0
LTE B41	Ant 8	63.3	9.5	22.0
LTE B48	Ant 5	63.3	12.5	19.0
LTE B48	Ant 8	63.3	6.5	19.0
FR1 n2	Ant 5	100	15.5	24.0
FR1 n2	Ant 8	100	13	24.0
FR1 n5	Ant 5	100	15.5	24.0
FR1 n7	Ant 5	100	14	24.0
FR1 n7	Ant 8	100	12	24.0
FR1 n12	Ant 5	100	16	24.0
FR1 n13	Ant 5	100	15.5	24.0
FR1 n14	Ant 5	100	15.5	24.0
FR1 n25	Ant 5	100	17	24.0
FR1 n25	Ant 8	100	13	24.0
FR1 n26	Ant 5	100	16.5	24.0
FR1 n30	Ant 5	100	14.5	22.0
FR1 n30	Ant 8	100	13.5	22.0

FR1 n66	Ant 5	100	15.5	24.0
FR1 n66	Ant 8	100	14	24.0
FR1 n71	Ant 5	100	17	24.0
FR1 n38	Ant 5	100	17	24.0
FR1 n38	Ant 8	100	12	24.0
FR1 n41 PC3	Ant 5	100	17	24.0
FR1 n41 PC3	Ant 8	100	11.5	24.0
FR1 n41 PC2	Ant 5	50	14	23.5
FR1 n41 PC2	Ant 8	50	8.5	23.5
FR1 n48	Ant 5	100	14.5	21.0
FR1 n48	Ant 8	100	8.5	21.0
FR1 n77 PC3	Ant 5	100	14	24.0
FR1 n77 PC3	Ant 8	100	8	24.0
FR1 n77 PC2	Ant 5	50	11	23.0
FR1 n77 PC2	Ant 8	50	5	23.0
FR1 n78 PC3	Ant 5	100	13.5	24.0
FR1 n78 PC3	Ant 8	100	9	24.0
FR1 n78 PC2	Ant 5	50	10.5	23.0
FR1 n78 PC2	Ant 8	50	6	23.0