

Test Report

FCC TAS COMPLIANCE

Product Name : Notebook Computer
Brand Name : acer
Model No. : N25H6
Marketing Name : SFG16-73/SFG16-73T
FCC ID : HLZBE201NG

Applicant : Acer Incorporated
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Revision History

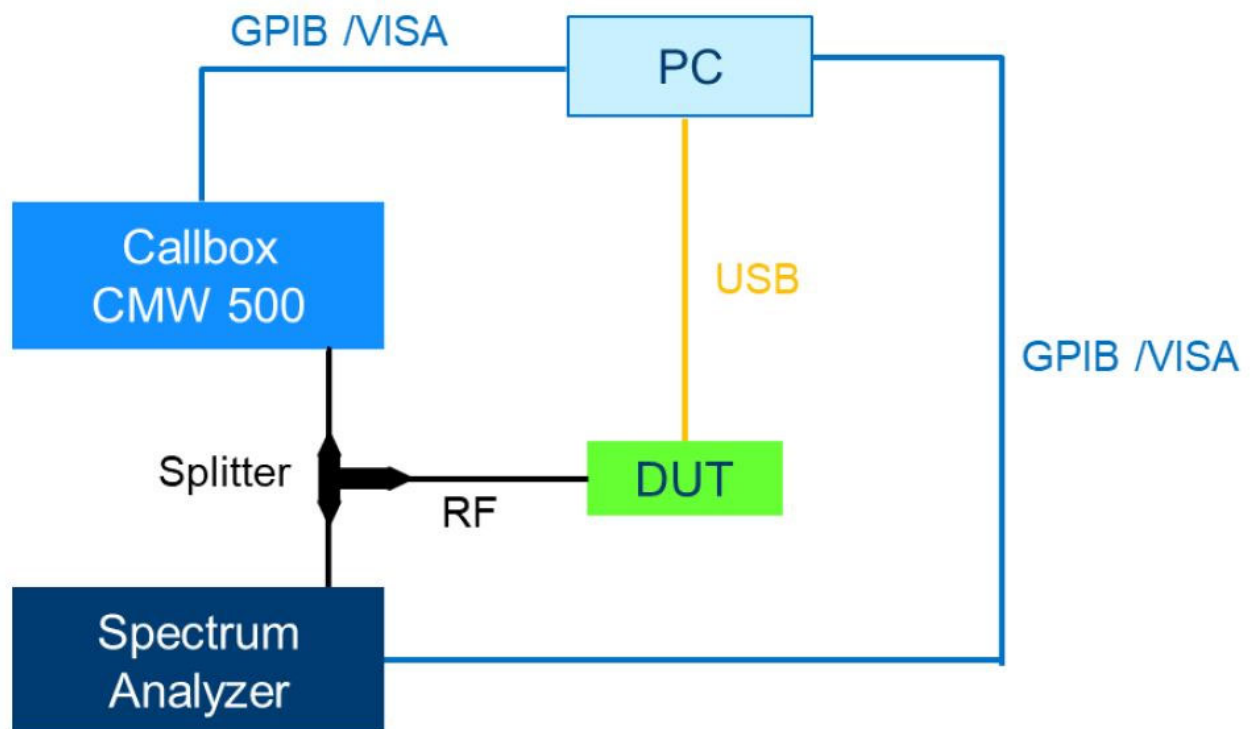
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24C0833R-SAUSV05S-A	V1.0	Initial issue of report	2025/02/04

1. Test Setup

The conducted power measurement test setup is described in the following and illustrated in Figure A.1.

- The DUT which BE201 WiFi module is installed inside Notebook Computer from acer model N25H6.
- A control PC is used to configure the Call Box as an access point to manage the uplink and downlink data traffic.
- Uplink signal power is measured with the Spectrum Analyzer and record by the PC with a maximum time resolution of 0.3333 msec.
- Uplink signal from the module is fed through a 3 dB Power Splitter, which delivers an equal amount of signal to the Spectrum Analyzer and the Call Box. The Splitter has high isolation between the Spectrum Analyzer and the Call Box.

Figure.1 – Validation using conducted power measurement test setup.



2. Test Equipment List

Instrument	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
Communication Tester	R&S	CMW500	157304	N/A	N/A
Spectrum Analyzer	R&S	FSV30	103464	2024/6/21	2025/6/20

3. Test Results

3.1. SAR Power in Bios Table as per SAR assessment

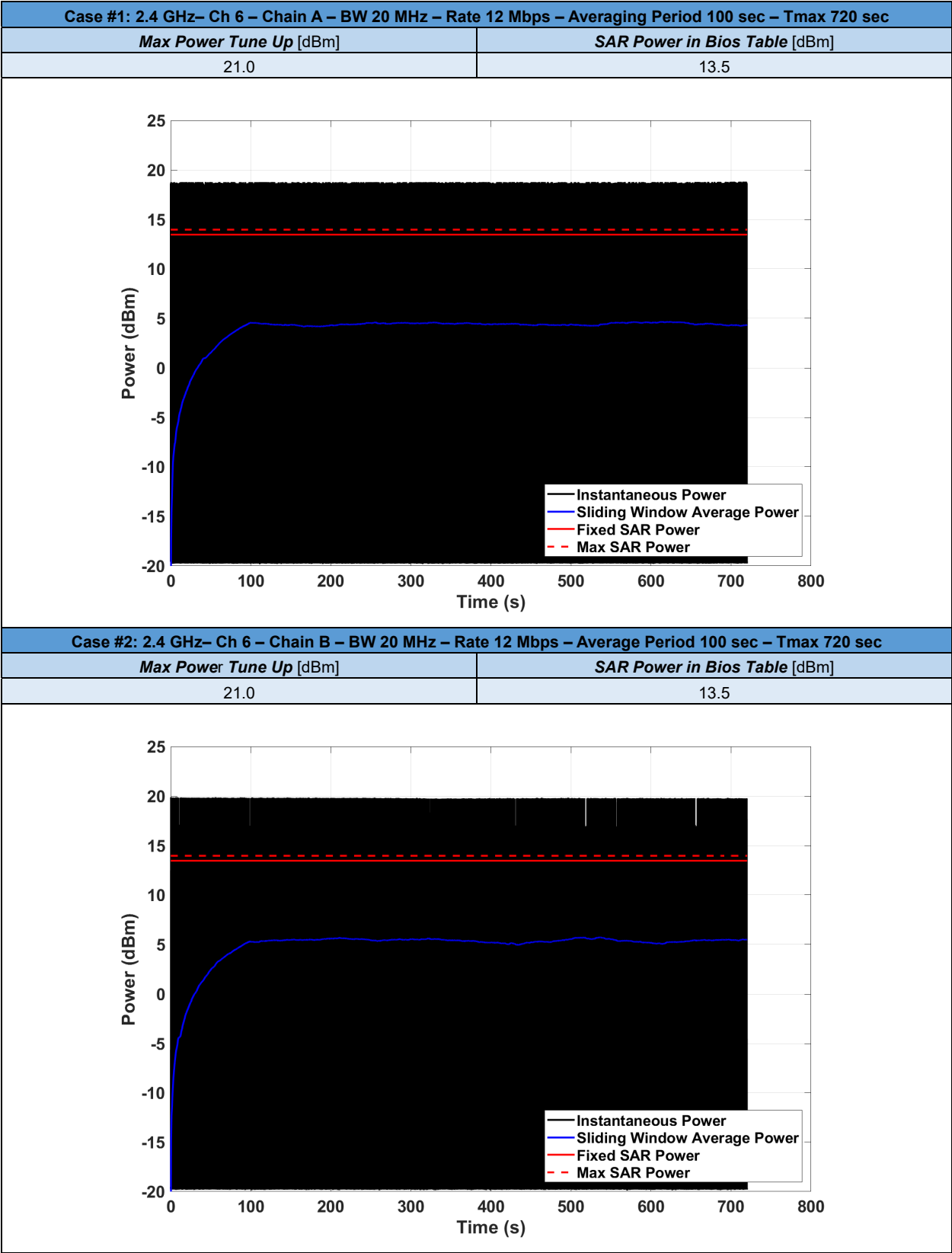
Chain A		Chain B	
IEEE 802.11g CH6	IEEE 802.11a CH120	IEEE 802.11g CH6	IEEE 802.11a CH120
13.5	10.5	13.5	10.5

3.2. TAS Validation for 2.4 GHz Band on Channel 6

Table 1 – Test Cases for 2.4 GHz Channel 6

Test Case #	Channel	Chain	Channel Bandwidth	Measurement Averaging Period	Measurement Time Resolution	Max Power Tune Up [dBm]	SAR Power in Bios Table [dBm]
1	6	A	20 MHz	100 sec	0.3333 msec	21.0	13.5
2		B	20 MHz	100 sec	0.3333 msec	21.0	13.5

Results of test cases in Table 1 are shown in the following plots.

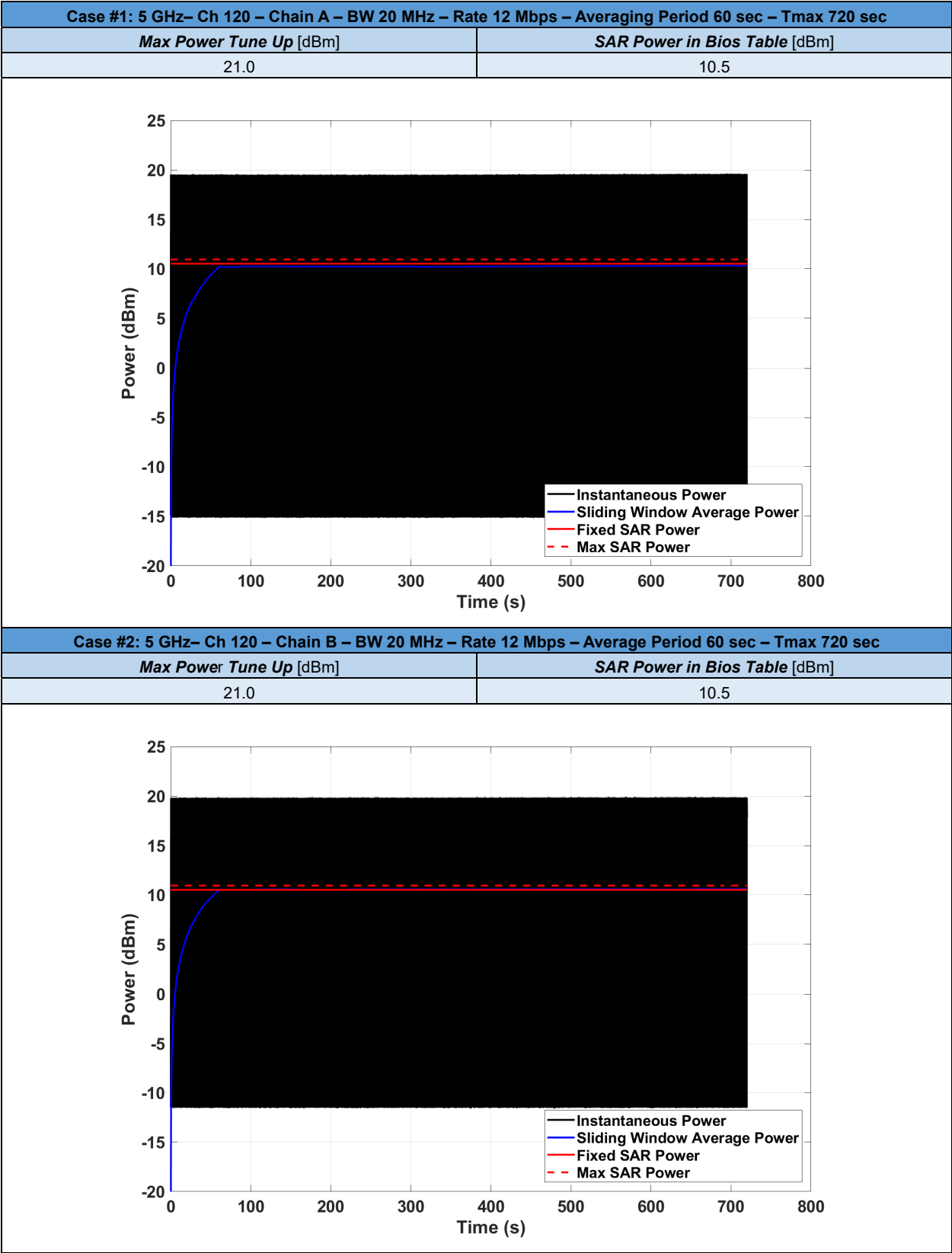


3.3. TAS Val idation for 5 GHz Band on Channel 120

Table 2 – Test Cases for 5 GHz Channel 120

Test Case #	Channel	Chain	Channel Bandwidth	Measurement Averaging Period	Measurement Time Resolution	Max Power Tune Up [dBm]	SAR Power in Bios Table [dBm]
1	120	A	20 MHz	60 sec	0.3333 msec	21.0	10.5
2		B	20 MHz	60 sec	0.3333 msec	21.0	10.5

Results of test cases in Table 2 are shown in the following plots.



4. Conclusion

The TAS Intel Algorithm functionality of BE201 WiFi Module Integrated inside acer N25H6 is tested. All test cases are compliant with SAR limit.