

We test 802.11b CH11 for SISO mode with antenna-0 transmitting on top side, and got the 1.21 W/kg of SAR. Please refer to the SAR summary table in below. We found that SAR value on CH11 is obviously larger than CH6, and the SAR on MIMO mode was mainly contributed by Ant-0. When we does not test CH11 on SISO Ant-0 mode, that is a reason why SAR result on SISO and MIMO is quite different while two antennas are quite separate.

Band	Test Position	Ch.	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)
802.11b	Rear Face	6	0	13.0	12.88	1.03	0.12	0.421
802.11b	Top Side	6	0	13.0	12.88	1.03	0.07	0.766
802.11b	Top Side	11	0	13.0	12.34	1.16	0.05	1.21
802.11b	Rear Face	11	1	13.0	12.58	1.10	0.11	0.668
802.11b	Top Side	11	1	13.0	12.58	1.10	0.09	0.559
802.11b	Rear Face	6	0+1	Ant0: 13.0	Ant0: 12.20	Ant0: 1.20	0.11	Ant0: 0.528
802.11b	Top Side	6	0+1	Ant0: 13.0	Ant0: 12.20	Ant0: 1.20	-0.04	Ant0: 0.756
802.11b	Top Side	1	0+1	Ant0: 13.0	Ant0: 11.80	Ant0: 1.32	0.17	Ant0: 0.565
802.11b	Top Side	11	0+1	Ant0: 13.0	Ant0: 12.18	Ant0: 1.21	0.17	Ant0: 1.15

<SAR Plot for 802.11b CH11 Ant0 Tx on top side>

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2014/11/25

P105 802.11b_Top Side_0cm_Ch11_Ant0

DUT: 140728C21

Communication System: WLAN_2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B24T25N2_1125 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.011 \text{ S/m}$; $\epsilon_r = 50.633$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 21.7 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.29, 7.29, 7.29); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (41x241x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 1.60 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.695 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.536 W/kg

Maximum value of SAR (measured) = 1.96 W/kg

