

1. Hall Sensor Validation Data

2437MHz

IMU is always being triggered during the validation process.

Hinge Angle (°)	Hall Effect Sensor Status	Measured Power @ 2437 MHz 802.11 b (dBm)
90	Open	17.23
80	Open	17.23
70	Open	17.23
60	Closed	11.05
65	Closed	11.05
69	Open	17.23
68	Open	17.23
67	Open	17.23
66	Open	17.23
64	Closed	11.05
63	Closed	11.05
62	Closed	11.05
61	Closed	11.05
60	Closed	11.05
50	Closed	11.05
40	Closed	11.05
30	Closed	11.05
20	Closed	11.05
10	Closed	11.05
0	Closed	11.05

Table 1 Hall Effect Sensor Validation Data-Temple Arm Switching from Open to Closed

Hinge Angle (°)	Hall Effect Sensor Status	Measured Power @ 2437 MHz 802.11 b (dBm)
0	Closed	11.05
10	Closed	11.05
20	Closed	11.05
30	Closed	11.05
40	Closed	11.05
50	Closed	11.05
70	Closed	11.05
80	Open	17.23
75	Open	17.23
71	Closed	11.05
72	Closed	11.05
73	Open	17.23
74	Open	17.23
76	Open	17.23
77	Open	17.23
78	Open	17.23
88	Open	17.23
90	Open	17.23

Table 2 Hall Effect Sensor Validation Data-Temple Arm Switching from Closed to Open

2. IMU Validation

$T_{\text{relax}} = 20$ seconds, $T_{\text{trigger}} = \text{instant (~ms)}$

Power State B (Rest-on-shirt Power State) is used as IMU non-static Power State

2437 MHz

Testing channel = 2437 MHz, 802.11b 1 Mbps mode, $P_{\text{high}} = 17.23$ dBm, $P_{\text{low}} = 11.05$ dBm

Time (s)	Action	IMU Status	Measured Power (dBm)
0	Move Device to trigger IMU	Non-static	11.05
10	Set Device on static table	Non-static	11.05
30	Set Device on static table	Static	17.23
40	Move Device to trigger IMU	Non-static	11.05

Table 1 P_{high} and P_{low} Validation

Time (s)	Action	IMU Status	Measured Power (dBm)
0	Move Device to trigger IMU	Non-static	11.05
10	Set Device on static table	Non-static	11.05
35	Set Device on static table	Static	17.23
40	Move Device to trigger IMU	Non-static	17.23
45	Move Device to trigger IMU	Non-static	17.23
50	Move Device to trigger IMU	Non-static	17.23
55	Set Device on static table	Non-static	11.05
75	Set Device on static table	Non-static	17.23

Table 2 T_{relax} Validation

3. Power Reduction Mechanism Validation

Power is measured at 2437 MHz, 802.11b, 1 Mbps mode

Initial Power State	Power Measured at Initial Power State (dBm)	Subsequent Power State	Power Measured at Subsequent Power State (dBm)
A	17.23	B	11.05
A	17.23	C	17.23
A	17.23	D	17.23
B	11.05	C	17.23
B	11.05	D	17.23
C	17.23	D	17.23

Power is measured at 5570 MHz, 802.11ac VHT160, MCS0 mode

Initial Power State	Power Measured at Initial Power State (dBm)	Subsequent Power State	Power Measured at Subsequent Power State (dBm)
A	14.46	B	1.07
A	14.46	C	17.04
A	14.46	D	17.04
B	1.07	C	17.04
B	1.07	D	17.04
C	17.04	D	17.04

Power is measured at 802.11ax, HE160, 6025 MHz MCS0 mode

Initial Power State	Power Measured at Initial Power State (dBm)	Subsequent Power State	Power Measured at Subsequent Power State (dBm)
A	12.51	B	2.29
A	12.51	C	12.84
A	12.51	D	16.22
B	2.29	C	12.84
B	2.29	D	16.22
C	12.84	D	16.22

4. Supplemental SAR Tests Results

General Note:

1. Guidance is here provided in regard to RF devices that use motion sensors to detect a "on-body" use conditions, in order to control the RF conducted power to maintain RF exposure compliance. For these cases, it is also necessary to address "off-body, but close" use condition, such as the device on a stationary surface (e.g., a table), thus with the motion sensors not triggered and therefore operating at maximum power, but close enough to a person's body to pose RF exposure compliance concerns.
2. Accordingly, it is possible to consider that, if the particular device under test (DUT) is shown to be RF-exposure-compliant at 25 mm without any power reduction, then any off-body use will also lead to an exposure that, on average, is within the compliance threshold.
3. The test data is selected according to the worst-case SAR configuration.

Band	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN2.4GHz	802.11b 1Mbps	Back	25mm	Power State D	6	2437	SKU1	17.9	18	1.023	100	1.000	0.09	0.042	0.043
WLAN2.4GHz	802.11b 1Mbps	Back	25mm	Power State D	6	2437	SKU2	17.82	18	1.042	100	1.000	0.06	0.038	0.04
WLAN2.4GHz	802.11b 1Mbps	Back	25mm	Power State D	6	2437	SKU3	17.63	18	1.089	100	1.000	-0.08	0.037	0.04
WLAN2.4GHz	802.11b 1Mbps	Back	25mm	Power State D	6	2437	SKU4	17.82	18	1.042	100	1.000	0.05	0.036	0.038
WLAN5GHz	802.11ac-VHT80 MCS0	Back	25mm	Power State D	155	5775	SKU1	17.32	18	1.169	99.63	1.004	0.06	0.124	0.146
WLAN5GHz	802.11ac-VHT80 MCS0	Back	25mm	Power State D	155	5775	SKU2	17.38	18	1.153	99.63	1.004	-0.11	0.166	0.192
WLAN5GHz	802.11ac-VHT80 MCS0	Back	25mm	Power State D	155	5775	SKU3	17.46	18	1.132	99.63	1.004	0.07	0.181	0.206
WLAN5GHz	802.11ac-VHT80 MCS0	Back	25mm	Power State D	155	5775	SKU4	17.29	18	1.178	99.63	1.004	0.09	0.180	0.213
WLAN6GHz	802.11ax-HE160 MCS0	Back	25mm	Power State D	15	6025	SKU1	15.67	17	1.358	100	1.000	0.03	0.079	0.107
WLAN6GHz	802.11ax-HE160 MCS0	Back	25mm	Power State D	15	6025	SKU2	15.64	17	1.368	100	1.000	0.07	0.116	0.159
WLAN6GHz	802.11ax-HE160 MCS0	Back	25mm	Power State D	15	6025	SKU3	15.49	17	1.416	100	1.000	-0.09	0.089	0.126
WLAN6GHz	802.11ax-HE160 MCS0	Back	25mm	Power State D	15	6025	SKU4	15.55	17	1.396	100	1.000	0.05	0.095	0.133