



EMC Test Data

Client: Fitbit, Inc.	Job Number: J97928
Model: FB502	T-Log Number: T98212
	Project Manager: Deepa Shetty
Contact: Sachin Sawalapurkar	Project Coordinator: -
Standard: FCC 15.247, IC RSS-247, LP 0002	Class: N/A

SAR Exclusion

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 11/30/2015

Test Engineer: Mark Hill

General Test Configuration

Per KDB 447498 D01, Section 4.3.1 - The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at a test separation distance $\leq 50\text{mm}$ is determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})][(\text{freq in GHz})^{0.5}] \leq 3 \text{ (for 1-g) or } 7 \text{ (10-g)}$$

Summary of Results

Device complies with SAR exclusion at 5mm separation:	Yes
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Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



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FCC SAR Exclusion Calculation (based on conducted power)

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
	dBm	mW*							
2480	5.7	3.7	0	-1.15	5.7	2.85	5.0	1.17	3.0

Industry Canada SAR Exclusion Calculation (Highest of output power or EIRP)

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	Maximum Power or EIRP	SAR Exclusion Limit (mW)
	dBm	mW*							
2480	5.7	3.7	0	-1.15	5.7	2.85	5.0	3.72	4.0

Note: The body (1-g) SAR exclusion thresholds were used, as it is reasonable to assume the product could be located close/adjacent to the body, not just on the extremities

Note: the worse case output power across all modes was used. This represents the highest output power including production tolerances.