



EMC Test Data

Client:	Lighthouse Worldwide Solutions	Job Number:	JD105241
Model:	ApexZ3	T-Log Number:	T105297
Contact:	Charley Abboud	Project Manager:	Irene Radamacher
Standard:	FCC Part 15	Project Coordinator:	-
		Class:	N/A

Maximum Permissible Exposure

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: 9/5/2017

Test Engineer: David Bare

General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with SAR exclusion at 5.27mm separation:	Yes
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Exclusion calculation based on FCC KDB 447498 4.3.1 a) for extremities

Deviations From The Standard

No deviations were made from the requirements of the standard.

FCC MPE Calculation

Use: General

Antenna: 1 dbi

FCC SAR Exclusion Calculation for Wi-Fi (Note: Bluetooth uses significantly less power so complies by inspection)

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
2412	14.0	25.1	0	-1	14.0	20.0	5.27	7.40	7.5
2437	14.0	25.1	0	0	14.0	25.1	5.27	7.44	7.5
2462	14.0	25.1	0	1	14.0	31.6	5.27	7.48	7.5

Power listed for exposure is rated power plus tolerance