



BUREAU
VERITAS

Test Report No.: FS160603N045

RF EXPOSURE REPORT

Applicant	Armour Home Electronics Limited
Address	Units 7/8 Stortford Hall Industrial Park, Dunmow Road, BISHOPS STORTFORD, CM23 5GZ, UK

Manufacturer or Supplier	Armour Home Electronics Limited
Address	Units 7/8 Stortford Hall Industrial Park, Dunmow Road, BISHOPS STORTFORD, CM23 5GZ, UK
Product	Q Acoustics M3 Soundbar
Brand Name	Q Acoustics
Model	M3 Soundbar
Additional Model & Model Difference	N/A
Date of tests	Jun. 03, 2016 ~ Jun. 27, 2016

☒ FCC Part 2 (Section 2.1091)

☒ KDB 447498 D01

☒ IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Chris Chen Manager / EMC Department
	 Date: Jun. 28, 2016

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160603N045	Original release	Jun. 28, 2016

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1. CERTIFICATION

FCC ID:	YGM-M3
PRODUCT:	Q Acoustics M3 Soundbar
BRAND NAME:	Q Acoustics
MODEL NO.:	M3 Soundbar
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Armour Home Electronics Limited
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2.12	Integral PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	2.523	2.12	20	0.00081795	1.0

--- END ---