



FCC RF Exposure Evaluation

FCC ID: 2BEMU-G-MARK

1. Product Information

Product name	Microphone
Test Model	EW100
Additional Model No.	G2.1IEM, G4.1IEM, G5.0 USB, G5.1IEM, G6.1IEM,
	G2000IEM, Studio 4, Studio 6, GM58, 4016D, GD10,
	GLC640, G6000promax, Micro Go, G7S, GDM7, KARAOKE
	4, EM6050, SM57, SM58, E945, X333, X110V, G440XFM,
	EW100lavalier, GLXD4lavalier, G320AMlavalier, G1.1, G1.2,
- 412	G1.3, G1.4, G1.5, G1.6, G1.7, G1.8, GX1.1, GX1.2, GX1.3,
一:A 检测性力	GX1.4, GX1.5, GX1.6, GX1.7, GX1.8, GA1.1, GA1.2, GA1.3,
T CS Testing	GA1.4, GA1.5, GA1.6, GA1.7, GA1.8, GM1.1, GM1.2,
	GM1.3, GM1.4, GM1.5, GM1.6, GM1.7, GM1.8, GD1.1,
	GD1.2, GD1.3, GD1.4, GD1.5, GD1.6, GD1.7, GD1.8,
	GD2.1, GD2.2, GD2.3, GD2.4, GD2.5, GD2.6, GD2.7,
	GD2.8, GD2.9, GD4.1, GD4.2, GD4.3, GD4.4, GD4.5,
	GD4.6, GD4.7, GD4.8, GX100, GX200, GX300, GX400,
	GX500, GX600, GX700, GX800, GK2.1, GK2.2, GK2.3,
	GK2.4, GK2.5, GK2.6, GK2.7, GK2.8, GL4.1, GL4.2, GL4.3,
	GL4.4, GL4.5, GL4.6, GL4.7, GL4.8, GP2.1, GP2.2, GP2.3,
_ 05	GP2.4, GP2.5, GP2.6, GP2.7, GP2.8, GO1.1, GO1.2,
用接力。 一种	GO1.3, GO1.4, GO1.5, GO1.6, GO1.7, GO1.8, GO2.1,
ING TO TES	GO2.2, GO2.3, GO2.4, GO2.5, GO2.6, GO2.7, GO2.8,
1	GS6.1, GS6.2, GS6.3, GS6.4, GS6.5, GS6.6, GS6.7, GS6.8,
	GB4.1, GB4.2, GB4.3, GB4.4, GB4.5, GB4.6, GB4.7, GB4.8,
	GC411, GDM8, DG7, G35D, G55D, G53C, G320AM,
	GLXD4, X320FM, G210V, X220U, X120V, SM7B, PGA48,
	PGA58, PGA57, PGA81, PGA181, PGA98H,
	PGASTUDIOKIT, PGA52, PGA56, PGA98D, PGADRUMKIT,
	SM27, SM48, BETA 58A, BETA 87A, BETA 87C, BETA 52A,
	BETA 56A, BETA 57A, BETA 91A, BETA 98AD/C, BETA
- 112	98H/C, BETA 98AMP, BETA 181, KSM8, KSM9, VP89, VP82,
工工用控测股份	565SD, E604, G1, G2, G3, G4, G5, G6, G7, G8, G9, e835,
工产用位列 Lab	e845, e935, e925, e915, e825, e815, xs1, ew200, ew300,
	ew400, ew500, e965, KK1, SKM5000, SKM9000, SKM9200,
	SKM5200, XSW1, profile USB, MK4, MK5, MK6, E904,
	E906, E914, E608, E902, E901, E602, mke200, md435,
	md445, md421, The One, BC1200, TG DRUM SET, MC930,
	TG D70D, TG D50D, TG 153C, TG D58C, TG D57C, M70
	PRO X, m80, m81, m90 pro x, mcm114, tF11, TF29, TF39,
	TF51, TF47, wa47 jr, EDGE SOLO, ELA M251E, 47 gold,
	EDGE NOTE, C12 VR, M92.1S, G8000, G8.1, SE7, se8,
- 112	2200, 2300, 4099, 4018, KMS105, KMS104, tlm103, u87ai,
BZ73	kk205, kk10, ku100, bcm70, m49, tlm102, u89i, tlm107, u47,





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ing Lau	sr318, sr314, m23, m30, m50, at2080, at2060, AT4047,
130 res	X180, G440, G440XFM, G14S, G24S, G44S, G-MARK GO,
	G-MARK, GO pro, Go pro II, Go pro III, Go pro IV, Go pro V,
	Go 360, GD8, GD9, GD10, X440, X520, X720,, V001,
	GV002, G-X5-TVM, G-live, GLC440, GLC640, G4000-IEM,
	G5000-IEM, G6000-IEM, G820, Wireless GO, K8, K7, POP6,
	POP4, K9, M, GT400, IEM POCKET, C3000, G5.0USB
Model Declaration	PCB board, structure and internal of these model(s) are
	the same, So no additional models were tested
Power supply	DC 3.0V by 2*AA Batteries
Hardware Version	/ 四位测度的
Software Version	/ Interesting
Frequency Range	520.1MHz-535.1MHz
Channel Number	16 channels
Modulation Type	FM
Antenne Description	Internal antenna, 0dBi (Max.)
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Portable Device
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2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 "

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
 The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test



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separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

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3. Refer evaluation method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

4. Conducted Power Results

Channel

nel	Results			
Test Mode	Frequency (MHz)	Measured Maximum Peak Power(dBm)	Limits (dBm)	Verdict
FM	520.1	10.775	24	PASS
FM	527.1	10.870	24	PASS
FM	535.1	9.210	24	PASS

5. Manufacturing tolerance

Channel

	FM Channe	I(MHz) (Peak)	
Frequency	520.1	527.1	535.1
Target (dBm)	10.0	10.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0

6. Evaluation Results

Channel

Dand/Mada	£ (CLI=)	Antenna Distance	RF output power		SAR Test Exclusion	SAR Test
Band/Mode	f (GHz)	(mm)	dBm	mW	Threshold	Exclusion
FM	0.5201	5	11.0	12.5893	1.8158< 3.0	Yes
FM	0.5271	5	11.0	12.5893	1.8280< 3.0	Yes
FM	0.5351	5	10.0	10.0000	1.4630< 3.0	Yes

Remark:

- 1. Output power including tune up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 of KDB447498 is applied to determine SAR test exclusion.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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