



HEARING AID COMPATIBILITY RF EMISSIONS TEST REPORT

FCC ID : IHDT56AX2
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2625-11
WD Emission Result : PASS
Applicant : Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer : Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Standard : FCC 47 CFR §20.19
ANSI C63.19-2019

The product was received on Jun. 30, 2026. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in ANSI C63.19-2019 / 47 CFR Part 20.19 and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
HA610603-18A	Rev. 01	Initial issue of report	Sep. 07, 2026

**1. General Information**

Product Feature & Specification	
Applicant Name	Motorola Mobility LLC
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2625-11
FCC ID	IHDT56AX2
EUT Stage	Identical Prototype
Frequency Band	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC: ASK

Reviewed by: Jason Wang**Report Producer: Carlie Tsai**



2. Applied Standards

- FCC CFR47 Part 20.19
- ANSI C63.19-2019
- FCC KDB 285076 D01 HAC Guidance v06r04
- FCC KDB 285076 D03 HAC FAQ v01r07

3. Air Interfaces

Air Interface	Band MHz	Type	C63.19 RF _{AIL} Tested	Simultaneous Transmitter	Name of Voice Service	Power State Compliance
GSM	GSM850	VO	No ⁽¹⁾	WLAN, BT	CMRS Voice	Head Pmax ⁽²⁾
	GSM1900			WLAN, BT		
	EDGE850	VD	No ⁽¹⁾	WLAN, BT	Google Meet	
	EDGE1900			WLAN, BT		
WCDMA	Band II	VO	No ⁽¹⁾	WLAN, BT	CMRS Voice	Head Pmax ⁽²⁾
	Band IV			WLAN, BT		
	Band V			WLAN, BT		
	HSPA	VD	No ⁽¹⁾	WLAN, BT	Google Meet	
LTE FDD	Band 2	VD	No ⁽¹⁾	5G NR, WLAN, BT	VoLTE / Google Meet	Head Pmax ⁽²⁾
	Band 4			5G NR, WLAN, BT		
	Band 5			5G NR, WLAN, BT		
	Band 7			5G NR, WLAN, BT		
	Band 12			5G NR, WLAN, BT		
	Band 13			5G NR, WLAN, BT		
	Band 17			5G NR, WLAN, BT		
	Band 25			5G NR, WLAN, BT		
	Band 26			5G NR, WLAN, BT		
	Band 66			5G NR, WLAN, BT		
LTE TDD	Band 38	VD	No ⁽¹⁾	5G NR, WLAN, BT	VoLTE / Google Meet	
	Band 41			5G NR, WLAN, BT		
	Band 42			5G NR, WLAN, BT		
	Band 48			5G NR, WLAN, BT		
5G NR	n2	VD	No ⁽¹⁾	LTE, WLAN, BT	VoNR / Google Meet	Head Pmax ⁽²⁾
	n5			LTE, WLAN, BT		
	n7			LTE, WLAN, BT		
	n26			LTE, WLAN, BT		
	n38			LTE, WLAN, BT		
	n41			LTE, WLAN, BT		
	n66			LTE, WLAN, BT		
	n77			LTE, WLAN, BT		
Wi-Fi	2450	VD	No ⁽¹⁾	GSM, WCDMA, LTE, 5G NR	VoWiFi / Google Meet	Full
	5200			GSM, WCDMA, LTE, 5G NR, BT		
	5300			GSM, WCDMA, LTE, 5G NR, BT		
	5500			GSM, WCDMA, LTE, 5G NR, BT		
	5800			GSM, WCDMA, LTE, 5G NR, BT		
BT	2450	DT	No	GSM, WCDMA, LTE, 5G NR, 5GHz WLAN	NA	NA
Type Transport: VO= Voice only DT= Digital Transport only (no voice) VD= CMRS and IP Voice Service over Digital Transport						
Remark: 1. The air interface max power plus MIF is complies with ANSI C63.19-2019 Table 4.1 RF _{AIPL} 2. The product only 2G/3G/4G/5G support time-average SAR feature, therefore GSM/UMTS/LTE/5GFR1 HAC were tested at Head Pmax level(the Head maximum power). However, due the WIFI operation doesn't support Time average SAR feature, thereford WIFI operation were assessment at the maximum power to meet HAC RF compliance.						

4. WD Emission Requirements

The WD's conducted power must be at or below either the stated RFAIPL (Table 4.1) or the stated peak power level (Table 4.2), or the average near-field emissions over the measurement area must be at or below the stated RFAIL (Table 4.3), or the stated peak field strength (Table 4.4). The WD may demonstrate compliance by meeting any of these four requirements, but it must do so in each of its operating bands at its established worst-case normal speech-mode operating condition.

Table 4.1 - Wireless device RF audio interference power level	
Frequency range (MHz)	RF_{AIPL} (dBm)
< 960	29
960 - 2000	26
> 2000	25

Table 4.2 - Wireless device RF peak power level	
Frequency range (MHz)	RF_{Peak Power} (dBm)
< 960	35
960 - 2000	32
> 2000	31

Table 4.3 - Wireless device RF audio interference level	
Frequency range (MHz)	RF_{AIL} [dB(V/m)]
< 960	39
960 - 2000	36
> 2000	35

Table 4.4 - Wireless device RF peak near-field level	
Frequency range (MHz)	RF_{Peak} [dB(V/m)]
< 960	45
960 - 2000	42
> 2000	41



5. Modulation Interference Factor

For any specific fixed and repeatable modulated signal, a Modulation Interference Factor (MIF, expressed in decibels) may be developed that relates its interference potential to its steady state rms signal level or average power level. This factor is a function only of the audio frequency amplitude modulation characteristics of the signal and is the same for field strength or conducted power measurements. It is important to emphasize that the MIF is valid only for a specific repeatable audio frequency amplitude modulation characteristic. Any change in modulation characteristic requires determination and application of a new MIF.

MIF may be determined using a radiated RF field, a conducted RF signal, or, in a preliminary stage, a mathematical analysis of a modeled RF signal.

- a. Verify the slope accuracy and dynamic range capability over the desired operating frequency band of a fast probe or sensor, square-law detector, as specified in ANSI C63.19: 2019 D.3, and weighting system as specified in ANSI C63.19: 2019 D.4 and ANSI C63.19: 2019 D.5. For the probe and instrumentation included in the measurement of MIF, additional calibration and application of calibration factors are not required.
- b. Using RF illumination, or conducted coupling, apply the specific modulated signal in question to the measurement system at a level within its confirmed operating dynamic range
- c. Measure the steady-state rms level at the output of the fast probe or sensor
- d. Measure the steady-state average level at the weighting output
- e. Without changing the square-law detector or weighting system, and using RF illumination, or conducted coupling, substitute for the specific modulated signal a 1 kHz, 80% amplitude modulated carrier at the same frequency and adjust its strength until the level at the weighting output equals the Step d) measurement
- f. Without changing the carrier level from Step e), remove the 1 kHz modulation and again measure the steady-state rms level indicated at the output of the fast probe or sensor.
- g. The MIF for the specific modulation characteristic is given by the ratio of the Step f) measurement to the Step c) measurement, expressed in decibels ($20 \cdot \log(\text{step6}/\text{step3})$)

In practice, Step e) and Step f) need not be repeated for each MIF determination if the relationship between the two measurements has been pre-established for the measurement system over the operating frequency and dynamic ranges. In such cases, only the modulation characteristic being tested needs to be available during WD testing. Since indirect measurement procedure was using for RF audio interference power level evaluation, the MIF values applied in this test report were provided by the HAC equipment provider of SPEAG, and the worst values for all air interface are listed below to determine the Wireless device RF audio interference power level.



UID	Communication System Name	MIF(dB)
10021	GSM-FDD(TDMA,GMSK)	3.63
10023	GPRS-FDD (TDMA, GMSK, TN 0)	3.8
10024	GPRS-FDD (TDMA, GMSK, TN 0-1)	1.15
10027	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	-0.67
10028	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	-2.05
10025	EDGE-FDD (TDMA, 8PSK, TN 0)	3.75
10026	EDGE-FDD (TDMA, 8PSK, TN 0-1)	1.23
10029	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	-0.52
10058	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	-1.82
10460	UMTS-FDD(WCDMA, AMR)	-25.43
10225	UMTS-FDD (HSPA+)	-20.39
10170	LTE-FDD(SC-FDMA,1RB,20MHz,16-QAM)	-9.76
10173	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	-1.44
10769	5G NR 100% duty (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-12.08
10973	5G NR 40% duty ((DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.64
10061	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10427	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57
10671	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	-5.58
11026	IEEE 802.11be (320MHz, MCS0, 99pc duty cycle)	-28.73
*NA	5G NR 90% PC1.5(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz)	-9.26
*NA	5G NR 80% PC1.5(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz)	-5.07
*NA	5G NR 70% PC1.5(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz)	-3.78
*NA	5G NR 60% PC1.5(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz)	-2.24
*NA	5G NR 25% PC1.5(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz)	-0.78
*NA	5G NR 25% PC1.5(DFT-s-OFDM, 50% RB, 100MHz,BPSK, 30kHz)	-0.82
*NA	5G NR 25% PC1.5(DFT-s-OFDM, 1 RB, 100MHz,QPSK, 30kHz)	-0.96
*NA	5G NR 25% PC1.5(CP-OFDM, 1 RB, 100MHz,QPSK, 30kHz)	-1.56
*NA	5G NR 25% PC1.5(CP-OFDM, 50% RB, 100MHz,QPSK, 30kHz)	-1.72
*NA	5G NR 25% PC1.5(DFT-s-OFDM, 1 RB, 10MHz,BPSK, 30kHz)	-0.83
*NA	5G NR 25% PC1.5(DFT-s-OFDM, 50% RB, 10MHz,BPSK, 30kHz)	-0.85
*NA	5G NR 25% PC1.5(DFT-s-OFDM, 1 RB, 10MHz,QPSK, 30kHz)	-0.99
*NA	5G NR 25% PC1.5(CP-OFDM, 1 RB, 10MHz,QPSK, 30kHz)	-1.61
*NA	5G NR 25% PC1.5(CP-OFDM, 50% RB, 10MHz,QPSK, 30kHz)	-1.76

Remark:

Refer to appendix A for RFE UID specifications summary provided by SPEAG

*Refer to appendix B for MIF measurements conducted by test lab for 5G NR TDD power class 1.5.



6. Evaluation of WD RF interference potential

General Note:

1. The following table is according to ANSI C63.19:2019 section 4.4 indirect measurement procedure to evaluation max average conducted power from each air interface plus MIF to evaluate whether it complies with ANSI C63.19-2019 Table 4.1 RF_{AIPL} , compliance with table 4.1 means compliance with WD emission requirements.
2. To demonstrate compliance with ANSI C63.19-2019 requirement, HAC RF evaluations were performed using the Pmax average power level for technologies that support the TAS feature, including UMTS, LTE, FR1, and Wi-Fi. For GSM, the evaluation was based on the head average power level, as TAS is not supported for this technology.
3. If certain air interfaces did not meet the requirements specified in ANSI C63.19-2019 Table 4.1, they were further evaluated according to the RF_{AIL} criteria in Table 4.3 of the same standard.

<WWAN operation>

Ant 0							
Air Interface	Max Burst	Duty Cycle	Max Average	Worst Case	$RF_{AIPL}(dBm)$	RF_{AIPL} Limit(dBm)	RF_{AIPL}
	Antenna Input	(%)	Antenna Input	MIF (dB)			
	Power (dBm)		Power (dBm)				
GSM850	33.50	12.5%	24.50	3.63	28.13	29	Pass
GPRS850 - 1TX	33.50	12.5%	24.50	3.8	28.30	29	Pass
GPRS850 - 2TX	31.50	25.0%	25.50	1.15	26.65	29	Pass
GPRS850 - 3TX	29.50	37.5%	25.20	-0.67	24.53	29	Pass
GPRS850 - 4TX	28.50	50.0%	25.50	-2.05	23.45	29	Pass
EDGE850 - 1TX	26.50	12.5%	17.50	3.75	21.25	29	Pass
EDGE850 - 2TX	25.50	25.0%	19.50	1.23	20.73	29	Pass
EDGE850 - 3TX	23.00	37.5%	18.70	-0.52	18.18	29	Pass
EDGE850 - 4TX	21.50	50.0%	18.50	-1.82	16.68	29	Pass
GSM1900	30.50	12.5%	21.50	3.63	25.13	29	Pass
GPRS1900 - 1TX	30.50	12.5%	21.50	3.8	25.30	26	Pass
GPRS1900 - 2TX	29.00	25.0%	23.00	1.15	24.15	26	Pass
GPRS1900 - 3TX	27.50	37.5%	23.20	-0.67	22.53	26	Pass
GPRS1900 - 4TX	26.50	50.0%	23.50	-2.05	21.45	26	Pass
EDGE1900 - 1TX	26.00	12.5%	17.00	3.75	20.75	26	Pass
EDGE1900 - 2TX	24.50	25.0%	18.50	1.23	19.73	26	Pass
EDGE1900 - 3TX	22.50	37.5%	18.20	-0.52	17.68	26	Pass
EDGE1900 - 4TX	21.00	50.0%	18.00	-1.82	16.18	26	Pass
WCDMA	24.00	100.0%	24.00	-25.43	-1.43	26	Pass
WCDMA - HSPA	24.00	100.0%	24.00	-20.39	3.61	26	Pass
LTE - FDD	24.00	100.0%	24.00	-9.76	14.24	25	Pass
5G FR1 - FDD	24.00	100.0%	24.00	-12.08	11.92	25	Pass

Ant 1							
Air Interface	Max Burst	Duty Cycle	Max Average	Worst Case	$RF_{AIPL}(dBm)$	RF_{AIPL} Limit(dBm)	RF_{AIPL}
	Antenna Input	(%)	Antenna Input	MIF (dB)			
	Power (dBm)		Power (dBm)				
LTE - FDD	24.00	100.0%	24.00	-9.76	14.24	25	Pass
LTE - TDD_PC3	24.00	63.30%	22.00	-1.44	20.56	25	Pass
5G FR1 - FDD	24.00	100.0%	24.00	-12.08	11.92	25	Pass

Ant 2							
Air Interface	Max Burst	Duty Cycle	Max Average	Worst Case	RF _{AIPL} (dBm)	RF _{AIPL} Limit(dBm)	RF _{AIPL}
	Antenna Input	(%)	Antenna Input	MIF (dB)			
	Power (dBm)		Power (dBm)				
5G NR - TDD_PC3	20.50	100.0%	20.50	-12.08	8.42	25	Pass

Ant 4							
Air Interface	Max Burst	Duty Cycle	Max Average	Worst Case	RF _{AIPL} (dBm)	RF _{AIPL} Limit(dBm)	RF _{AIPL}
	Antenna Input	(%)	Antenna Input	MIF (dB)			
	Power (dBm)		Power (dBm)				
LTE - FDD	24.00	100.00%	24.00	-9.76	14.24	25	Pass
LTE – TDD_PC3	24.00	63.30%	22.00	-1.44	20.56	25	Pass
5G FR1 - FDD	24.00	100.00%	24.00	-12.08	11.92	25	Pass
5G NR - TDD_PC3	24.00	100.00%	24.00	-12.08	11.92	25	Pass

Ant 5							
Air Interface	Max Burst	Duty Cycle	Max Average	Worst Case	RF _{AIPL} (dBm)	RF _{AIPL} Limit(dBm)	RF _{AIPL}
	Antenna Input	(%)	Antenna Input	MIF (dB)			
	Power (dBm)		Power (dBm)				
LTE – TDD_PC3	20.00	43.3%	16.40	-1.44	14.96	25	Pass
5G NR - TDD_PC3	16.00	100.00%	16.00	-12.08	3.92	25	Pass

Ant 8							
Air Interface	Max Burst	Duty Cycle	Max Average	Worst Case	RF _{AIPL} (dBm)	RF _{AIPL} Limit(dBm)	RF _{AIPL}
	Antenna Input	(%)	Antenna Input	MIF (dB)			
	Power (dBm)		Power (dBm)				
5G NR - TDD_PC3	22.50	100.00%	22.50	-12.08	10.42	25	Pass



<WLAN operation>

Ant 6									
Air Interface		Max Burst Antenna Input Power (dBm)	Duty cycle	Time average calculation	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	RF _{AIPL} (dBm)	RF _{AIPL} Limit(dBm)	RF _{AIPL}
2.4GHz WLAN	802.11b	19.50	100.0%	0.0	19.50	-2.02	17.48	25	Pass
	802.11g	19.50	100.0%	0.0	19.50	0.12	19.62	25	Pass
	802.11n-HT20	18.50	100.0%	0.0	18.50	-13.44	5.06	25	Pass
	802.11n-HT40	17.50	100.0%	0.0	17.50	-5.57	11.93	25	Pass
5GHz WLAN	802.11a	19.50	100.0%	0.0	19.50	-3.15	16.35	25	Pass
	802.11n-HT20	19.00	100.0%	0.0	19.00	-13.44	5.56	25	Pass
	802.11n-HT40	18.00	100.0%	0.0	18.00	-13.44	4.56	25	Pass
	802.11ac-VHT20	19.50	100.0%	0.0	19.50	-5.57	13.93	25	Pass
	802.11ac-VHT40	18.50	100.0%	0.0	18.50	-5.57	12.93	25	Pass
	802.11ac-VHT80	17.50	100.0%	0.0	17.50	-5.57	11.93	25	Pass

Test Engineer : Charles Sheng.



7. References

- [1] ANSI C63.19:2019, "American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids", Aug. 2019.
- [2] FCC KDB 285076 D01v06r04, "Equipment Authorization Guidance for Hearing Aid Compatibility", Sep 2023.
- [3] FCC KDB 285076 D03v01r07, "Hearing aid compatibility frequently asked questions", Dec. 2024
- [4] SPEAG DASY System Handbook

Appendixes

Please refer to separated files for the following appendixes

Appendix A. UID specifications for HAC RFE

Appendix B. Modulation Interference Factor (MIF) Measurements

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