FCC Radio Test Report

APPLICANT	:	**Xiaomi Communications Co., Ltd.**
EQUIPMENT	:	**Mobile Phone**
BRAND NAME	:	**Xiaomi**
MODEL NAME	:	**2602EPTC0G**
FCC ID	:	**2AFZZPTC0G**
STANDARD	:	**FCC Part 15 Subpart E §15.407**
TEST DATE(S)	:	**Feb. 06, 2026**

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FR5D2207J	01	Initial issue of report	Feb. 06, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2.1	15.407(d)(10)	Transmit Power Control (TPC)	Pass	-

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2602EPTC0G
FCC ID	2AFZZPTC0G
IMEI Code	862177080072609/862177080072617
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	U-NII-5: 5925 MHz ~ 6425 MHz U-NII-6: 6425 MHz ~ 6525 MHz U-NII-7: 6525 MHz ~ 6875 MHz U-NII-8: 6875 MHz ~ 7125 MHz
Antenna Type / Gain	**<5925 MHz ~ 6425 MHz >** <Ant. 6> : PIFA Antenna with gain -3.1 dBi <Ant. 13> : PIFA Antenna with gain -3.1 dBi **<6425 MHz ~ 6525 MHz >** <Ant. 6> : PIFA Antenna with gain -2.8 dBi <Ant. 13> : PIFA Antenna with gain -2.8 dBi **<6525 MHz ~ 6875 MHz >** <Ant. 6> : PIFA Antenna with gain -2.5 dBi <Ant. 13> : PIFA Antenna with gain -2.5 dBi **<6875 MHz ~ 7125 MHz >** <Ant. 6> : PIFA Antenna with gain -2.4 dBi <Ant. 13> : PIFA Antenna with gain -2.4 dBi
Type of Modulation	802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

1.5 Modification of EUT

No modifications made to the EUT during the testing.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-KS	CN1257	314309

1.7 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- ANSI C63.10-2020

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Result

2.1 Transmit Power Control (TPC)

2.1.1 Limit of Unwanted Emissions

(d)(10) Very low power devices operating in the 5.925-7.125 GHz band shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP PSD value of −5 dBm/MHz.

2.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

2.1.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

 # Method SA-2 #

(power averaging (rms) detection with max hold):

·Set span to encompass the entire 99% OBW of the signal.

·Set RBW = 1 MHz.

·Set VBW ≥ 3 MHz.

·Number of points in sweep ≥ 2 Span / RBW.

·Sweep time = auto.

·Detector = power averaging (rms)

·Trace mode = max hold.

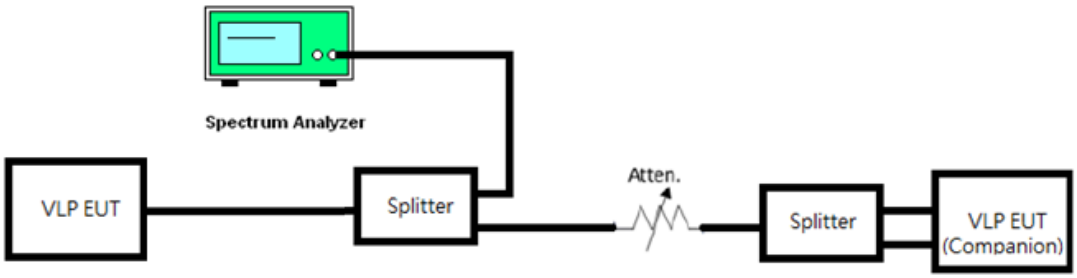
·Trace average at least 100 traces in power averaging (rms) mode

·Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

Measure the PPSD and record it.

1. Set the same center frequency between the EUT and VLP Master and establish a link
2. Set the adjustable attenuator to 0 and record the PSD value (high RSSI) on spectrum analyzer.
3. Incrementally increase the impedance of the adjustable attenuator and record the PSD value (low RSSI) on spectrum analyzer.
4. If the high RSSI is less than the low RSSI by more than 6dB, the TPC mechanism is met.

2.1.4 Test Setup



2.1.5 Support Unit used in test configuration and system

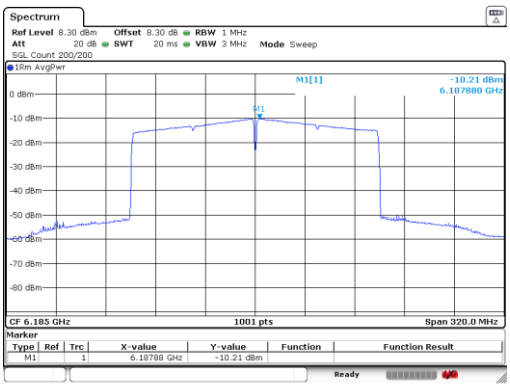
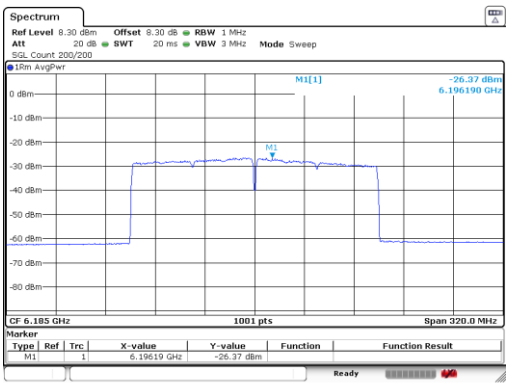
Instrument	Brand Name	Model No.	Characteristics
Spectrum Analyzer	R&S	FSV7	10kHz~7GHz
Splitter	MTJ	MTJ7144-M	0.5GHz-18GHz
Splitter	STI	ST108-0056	0.5GHz-40GHz
Adjustable Attenuator	Agilent	8494B	Attenuator 11dB

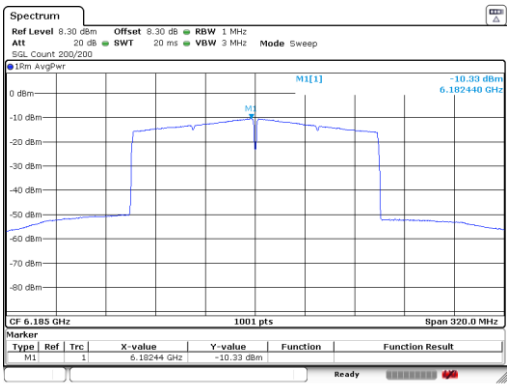
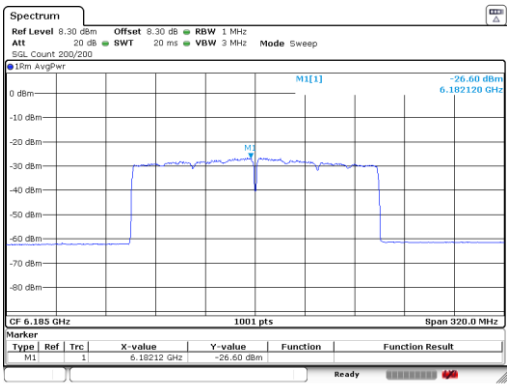
2.1.6 Test Result

The purpose of this test is to verify the relative power drop as the RSSI is increased.

If the conducted PSD delta is greater than 6dB then it ensures the EIRP PSD is at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

UNII-5 MIMO 2TX	HE160 6185MHz	Conducted PSD Ant6(6+13) (dBm/MHz)	Conducted PSD Ant13(6+13) (dBm/MHz)	Conducted PSD Ant6+13 (dBm/MHz)	Antenna Gain Ant6+13 (dBi)	EIRP PSD Ant6+13 (dBm/MHz)
Low RSSI		-10.21	-10.33	-7.26		
High RSSI		-26.37	-26.6	-23.98	-0.09	-24.07
Verdict: [EIRP PSD < -11dBm/MHz]						Pass

Ant6	
Low RSSI	High RSSI
	

Ant13	
Low RSSI	High RSSI
	

3 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV7	101632	10Hz~7GHz	Dec. 24, 2025	Feb. 06, 2026	Dec. 23, 2026	DFS (DFS01-KS)
adjustable attenuator	Keysight	8496B	MY42155761	Attenuator 110dB	NCR	Feb. 06, 2026	NCR	DFS (DFS01-KS)
Splitter	MTJ	Power Divider	MTJ7144-M	0.5GHz-18GHz	NCR	Feb. 06, 2026	NCR	DFS (DFS01-KS)
Splitter	STI	Power Divider	ST108-0056	0.5GHz-40GHz	NCR	Feb. 06, 2026	NCR	DFS (DFS01-KS)
RF Cable	NA	NA	NA	NA	NCR	Feb. 06, 2026	NCR	DFS (DFS01-KS)
RF Cable	NA	NA	NA	NA	NCR	Feb. 06, 2026	NCR	DFS (DFS01-KS)

NCR: No Calibration Required

---------- THE END ----------