

TEST REPORT

Application No.: FYCR2607000361AT
Applicant: Pop Mart Supply Chain (Guangdong) Co., Ltd.
Address of Applicant: 210, No.22-5, Minzhudadao, Minzhu Community, Shajing Street, Bao'an District, Shenzhen, Guangdong Province, China
Manufacturer: Pop Mart Supply Chain (Guangdong) Co., Ltd.
Address of Manufacturer: 210, No.22-5, Minzhudadao, Minzhu Community, Shajing Street, Bao'an District, Shenzhen, Guangdong Province, China
Factory: Dongguan LC Technology Co., Ltd.
Address of Factory: No. 408 Changhuang Road, Changping Town, Dongguan City, Guangdong Province
EUT Name: THE MONSTERS Shake A Drink Gaming Handheld
Item No.: P-092606004
Trade Mark: POPMART
FCC ID: 2BXTT-092606004
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2026-08-20
Date of Test: 2026-09-04 to 2026-09-04
Date of Issue: 2026-09-14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-14		Original

Authorized for issue by:			
		Byron Liang	
		Byron Liang/Project Engineer	
Approved By		Tree Zhan	
		Tree Zhan/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10-2020+Cor.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Emission Mask		ANSI C63.10-2020+Cor.1-2023 Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10-2020+Cor.1-2023 Section 6.4	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10-2020+Cor.1-2023 Section 6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
20dB Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Frequency tolerance		ANSI C63.10-2020+Cor.1-2023 Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A means Not applicable, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V for charging
 Powered by internal rechargeable battery as below:
 Model: 803035
 Rated: DC 3.7V 800mAh 2.96Wh

Test voltage: AC 120V 60 Hz powered by AC/DC adapter

Cable(s): 0.8m unscreened USB charging cable

Antenna Type: PCB Antenna

Operation Frequency: 13.56MHz

Modulation Type: ASK

Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	HUAWEI	Model:HW-110600C02; Input:AC 100-240V,1.8A Max.50/60Hz; Output:DC 5V/2A, 10V/4A, 11V/6A Max.	JL28L4NBM03275

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.2\text{dB}$
Emission Mask	$\pm 2.3\text{dB}$
Radiated Emissions (9kHz-30MHz)	$\pm 2.3\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.7\text{dB}$
Radiated Spurious Emissions Above 1GHz	$\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (18-40GHz)
20dB Bandwidth	$\pm 0.27\%$
Frequency tolerance	$\pm 5.4 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



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4.4 Test Location

All tests were performed at:

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Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026-02-05	2027-02-04
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM033-02	2026-05-12	2027-05-11
LISN	Rohde & Schwarz	ENV216	SEM007-24	2026-02-05	2027-02-04
LISN	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026-02-05	2027-02-04

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-26	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-26	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-26	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
MXA Signal Analyzer(10Hz-50GHz)	KEYSIGHT	N9020B	SEM004-24	2026-02-03	2027-02-02
MXA Signal Analyzer(20Hz-26.5GHz)	KEYSIGHT	N9020A	SEM004-25	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM037-01	2026-05-12	2027-05-11
Manual Step Attenuator	Agilent	8494B	SEM021-05	2026-02-02	2027-02-01
Manual Step Attenuator	Agilent	8496B	SEM021-06	2026-02-02	2027-02-01
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2026-03-31	2027-03-30
Vector Signal Generator(100kHz-7.5GHz)	Rohde & Schwarz	SMW200A	SEM006-19	2026-07-06	2027-07-05
MXG Vector Signal Generator(100kHz-6GHz)	Agilent	N5182A	SEM006-21	2026-02-03	2027-02-02
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2026-02-03	2027-02-02
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-04	2026-02-04	2027-02-03
Radio Communication Test Station	Anritsu	MT8000A	SZ-WRG-M-013	2026-04-28	2027-04-27



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SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260700036102

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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Pre-amplifier(18GHz-40GHz)	TST	LNA180400G40	SEM005-39	2026-04-29	2027-04-28
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/Temperature Indicator	deli	8838	SEM002-52	2026-07-08	2027-07-07
Humidity/Temperature Indicator	deli	8838	SEM002-53	2026-07-08	2027-07-07
Barometer	DUMAI	DYM3	SEM002-24	2026-07-10	2027-07-09



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.2
 Test Engineer: Rex Liu
 Limit:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

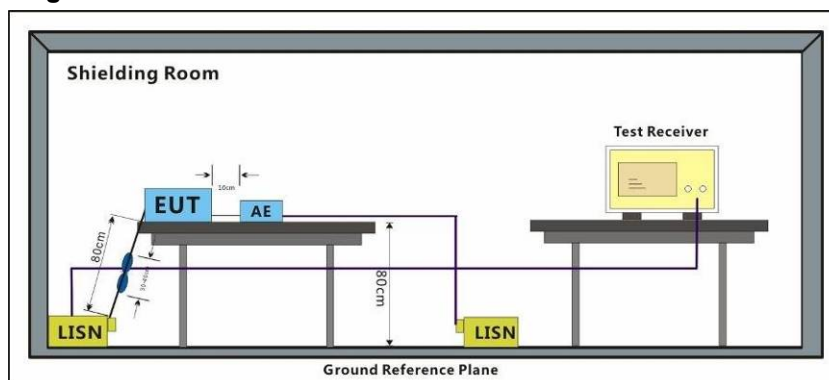
Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar

7.1.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	02	TX mode with modulation

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



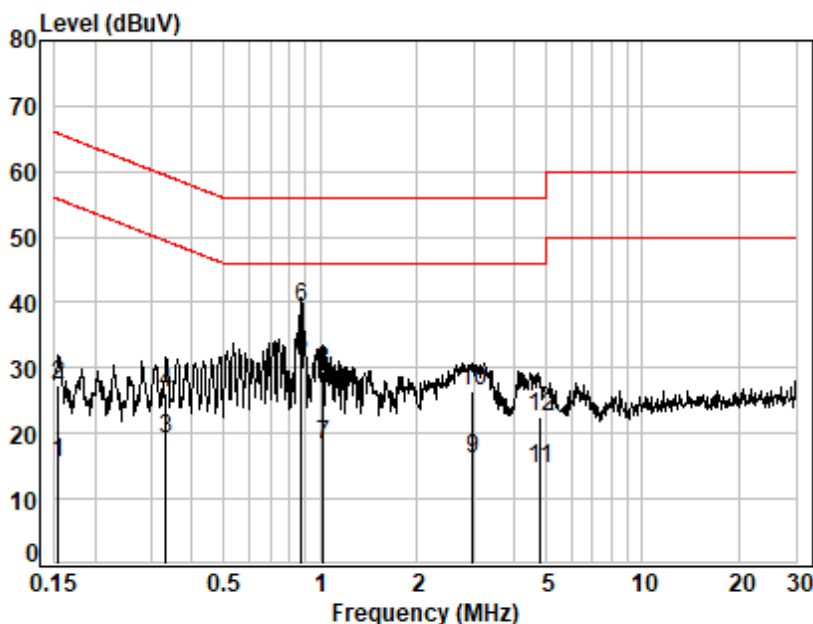
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Test Mode: 02; Line: Live line



Site : Shielding Room

Condition: LINE

Job No. :

Test mode:

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.02	9.82	5.65	15.49	55.78	-40.29	Average
2	0.1540	0.02	9.82	17.65	27.49	65.78	-38.29	QP
3	0.3303	0.04	9.49	9.71	19.24	49.44	-30.20	Average
4	0.3303	0.04	9.49	16.66	26.19	59.44	-33.25	QP
5	0.8710	0.06	9.88	21.56	31.50	46.00	-14.50	Average
6	0.8710	0.06	9.88	29.35	39.29	56.00	-16.71	QP
7	1.0211	0.04	9.75	8.60	18.39	46.00	-27.61	Average
8	1.0211	0.04	9.75	19.74	29.53	56.00	-26.47	QP
9	2.9619	0.04	9.82	6.33	16.19	46.00	-29.81	Average
10	2.9619	0.04	9.82	16.63	26.49	56.00	-29.51	QP
11	4.7969	0.05	9.85	4.83	14.73	46.00	-31.27	Average
12	4.7969	0.05	9.85	12.51	22.41	56.00	-33.59	QP

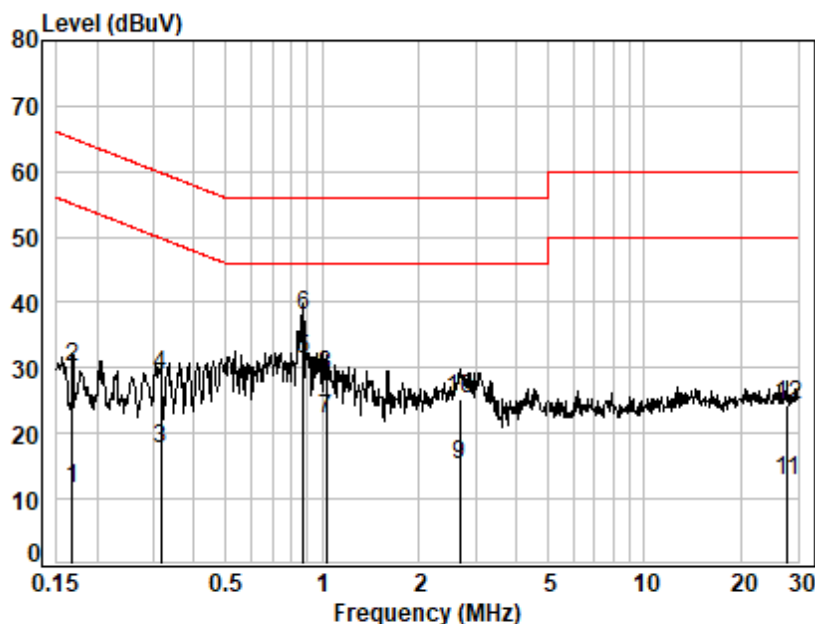


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Test Mode: 02; Line: Neutral Line



Site : Shielding Room

Condition: NEUTRAL

Job No. :

Test mode:

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.02	9.81	1.85	11.68	55.08	-43.40	Average
2	0.1677	0.02	9.81	20.35	30.18	65.08	-34.90	QP
3	0.3149	0.04	9.56	8.00	17.60	49.84	-32.24	Average
4	0.3149	0.04	9.56	19.26	28.86	59.84	-30.98	QP
5	0.8710	0.06	9.71	21.71	31.48	46.00	-14.52	Average
6	0.8710	0.06	9.71	28.15	37.92	56.00	-18.08	QP
7	1.0265	0.04	9.66	12.38	22.08	46.00	-23.92	Average
8	1.0265	0.04	9.66	19.23	28.93	56.00	-27.07	QP
9	2.6641	0.04	9.72	5.49	15.25	46.00	-30.75	Average
10	2.6641	0.04	9.72	15.43	25.19	56.00	-30.81	QP
11	27.7080	0.08	9.76	2.79	12.63	50.00	-37.37	Average
12	27.7080	0.08	9.76	14.49	24.33	60.00	-35.67	QP



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7.2 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.4

Test Engineer: Rex Liu

Limit:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The test was performed at a 3m test site.

The factor calculated by the following equation:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m
 FS_{max} is the measured field strength, expressed in dBμV/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBμV/m at 30 meters.

Note

At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

The limit = The limit above - Aux Factor (if applicable)

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40 \log(3/30) = -40\text{dB}$ (for 3m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar



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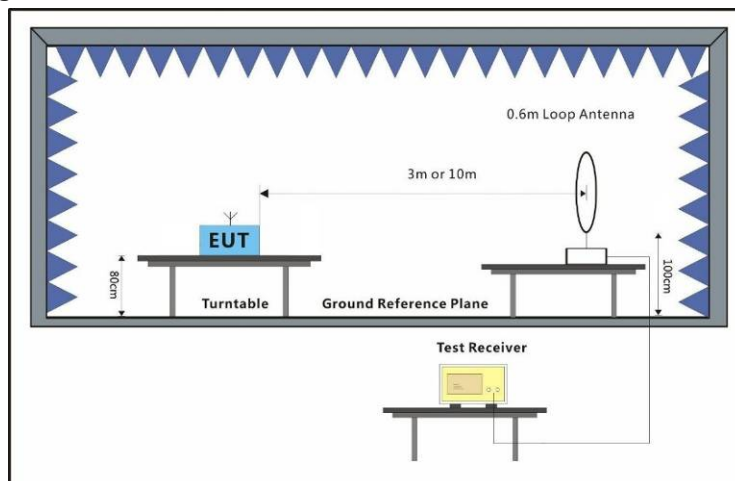
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7.2.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	02	TX mode with modulation

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

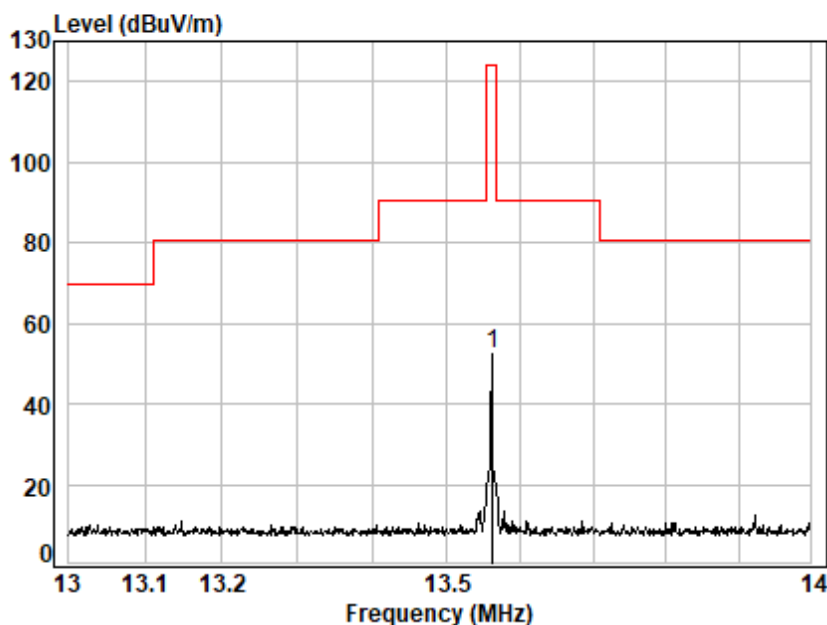


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Test Mode: 02;



Site : chamber

Condition: 3m

Job No :

Test Mode:

: coaxial

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	13.56	0.51	8.44	33.14	76.76	52.57	124.00	-71.43	QP



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7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.4

Test Engineer: Rex Liu

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

The limit = The limit above - Aux Factor (if applicable)

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 0.49MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Between 0.49 and 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/30) = -40\text{dB}$ (for 3m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar

7.3.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	TX mode with modulation



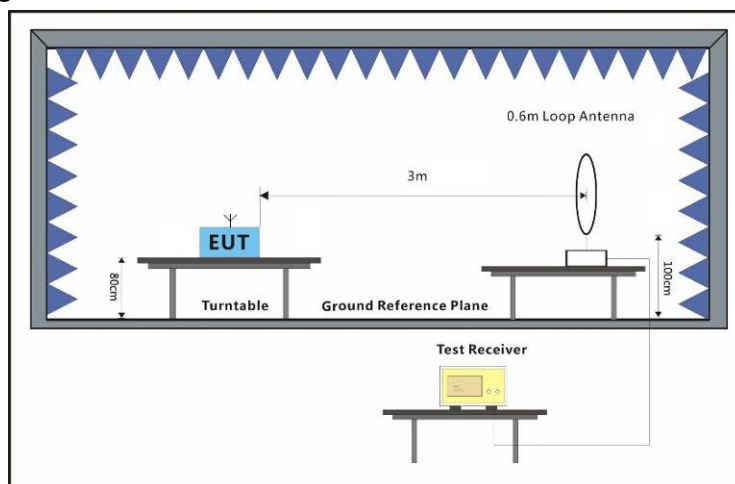
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For below 30MHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m away from the interference-receiving antenna which was mounted on the antenna tower 1m above the ground.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only below points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Only the worst position of vertical was shown in the report.

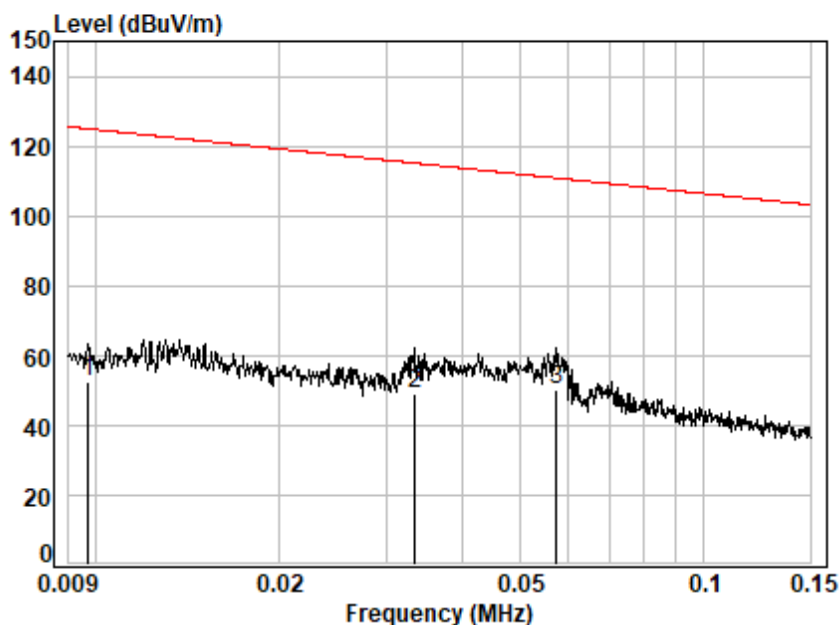


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Test Mode: 02;



Site : chamber

Condition: 3m

Job No. :

Test Mode:

: coplanar

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	0.22	18.56	30.75	64.55	52.58	124.94	-72.36	Average
2	0.03	0.26	11.77	31.57	68.58	49.04	115.12	-66.08	Average
3	0.06	0.28	10.58	31.93	71.00	49.93	110.83	-60.90	Average



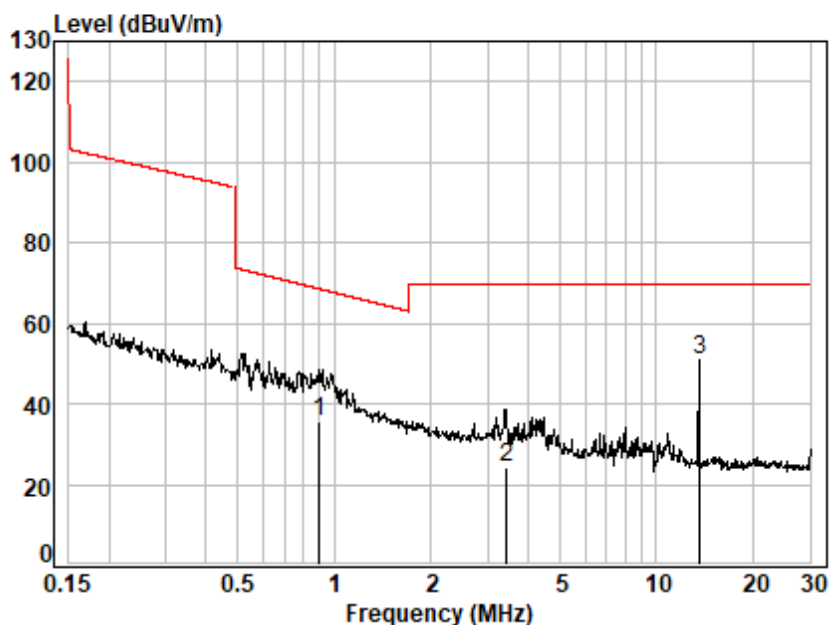
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Test Mode: 02;



Site : chamber

Condition: 3m

Job No. :

Test Mode:

: coplanar

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.89	0.42	9.51	32.36	57.86	35.43	68.57	-33.14	QP
2	3.42	0.40	9.33	33.20	47.58	24.11	69.54	-45.43	QP
3	13.55	0.51	8.44	33.14	75.32	51.13	69.54	-18.41	QP



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7.4 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.5

Test Engineer: Rex Liu

Limit:

Frequency (MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Note

1. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	TX mode with modulation



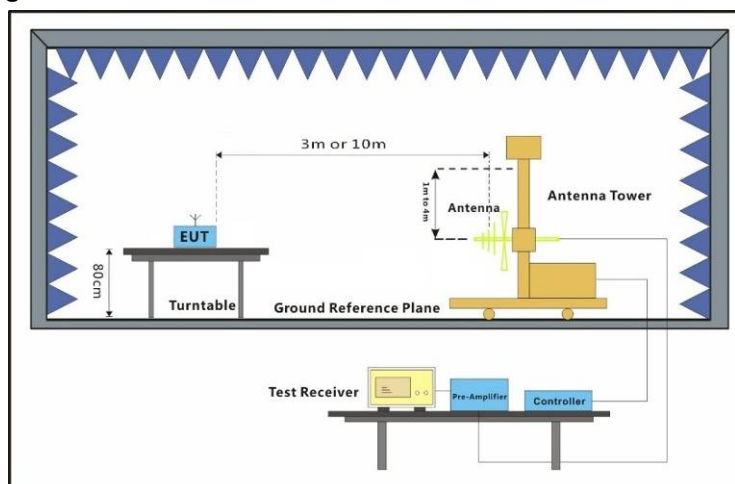
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

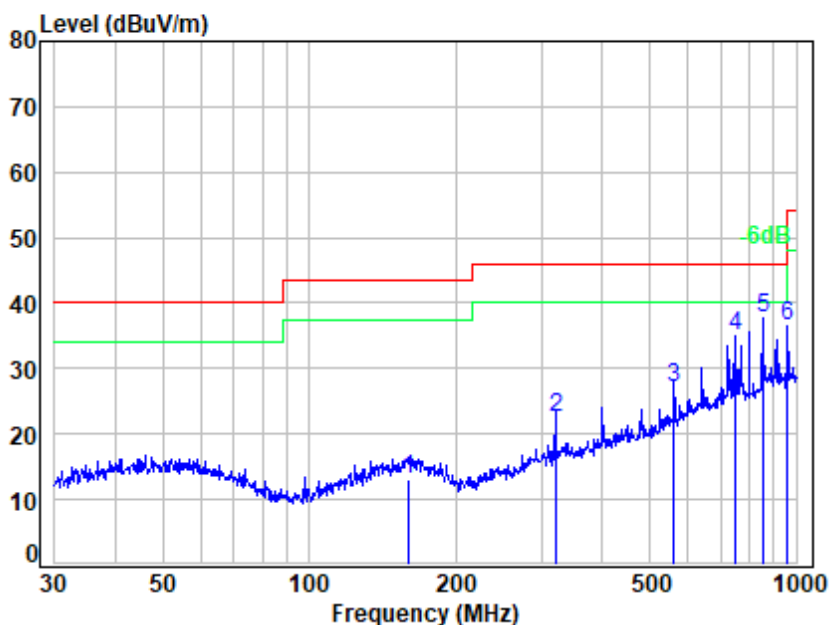


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Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No :
Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	159.784	1.22	17.42	25.60	20.09	13.13	43.50	-30.37	QP
2	319.937	0.85	18.10	25.38	28.97	22.54	46.00	-23.46	QP
3	560.693	1.70	22.85	26.58	29.04	27.01	46.00	-18.99	QP
4	747.483	2.21	26.03	26.51	33.15	34.88	46.00	-11.12	QP
5	854.025	2.89	26.83	26.44	34.47	37.75	46.00	-8.25	QP
6	962.162	2.87	28.01	26.33	31.92	36.47	54.00	-17.53	QP

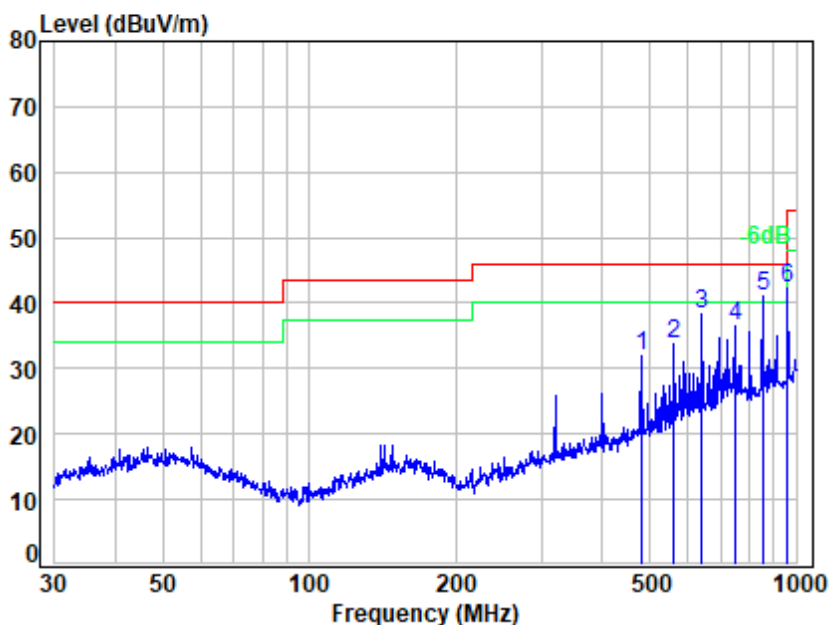


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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No :
Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	480.528	1.27	21.41	26.49	35.81	32.00	46.00	-14.00	QP
2	560.693	1.70	22.85	26.58	35.87	33.84	46.00	-12.16	QP
3	639.999	2.88	24.42	26.55	37.60	38.35	46.00	-7.65	QP
4	747.483	2.21	26.03	26.51	34.91	36.64	46.00	-9.36	QP
5	853.341	2.90	26.83	26.44	37.69	40.98	46.00	-5.02	QP
6	962.162	2.87	28.01	26.33	37.87	42.42	54.00	-11.58	QP



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7.5 Radiated Spurious Emissions Above 1GHz

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.6
 Test Engineer: Rex Liu
 Test Distance: 3 m below 18GHz; 1 m above 18GHz
 Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.5.1 E.U.T. Operation

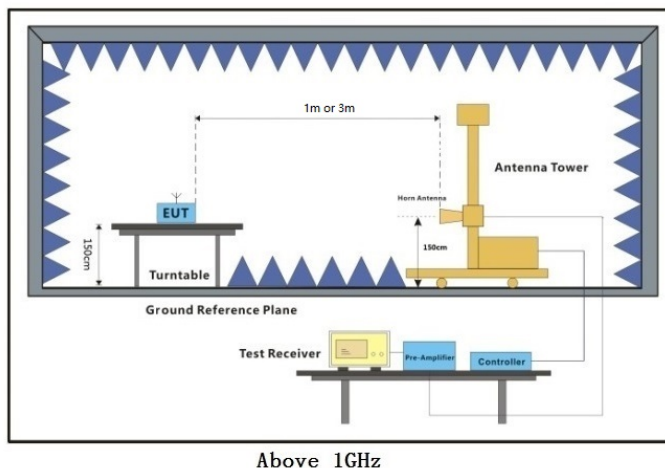
Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar

7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	TX mode with modulation

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).



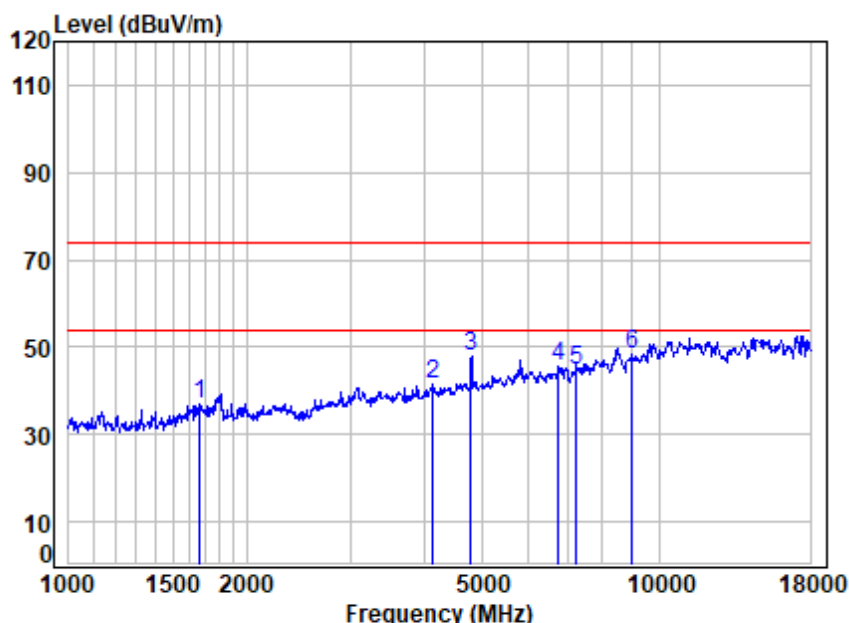
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Test Mode: 02; Polarity: Vertical;



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable	Ant	Preamp	Read	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	1667.951	5.47	24.97	53.42	60.09	37.11	74.00	-36.89 peak	0.00
2	4133.699	8.02	30.54	52.94	55.68	41.30	74.00	-32.70 peak	0.00
3	4804.000	8.26	31.98	53.15	60.74	47.83	74.00	-26.17 peak	0.00
4	6756.708	8.64	35.30	53.22	55.05	45.77	74.00	-28.23 peak	0.00
5	7206.000	8.83	36.06	53.42	53.44	44.91	74.00	-29.09 peak	0.00
6 pp	8995.123	11.05	38.26	53.90	52.96	48.37	74.00	-25.63 peak	0.00

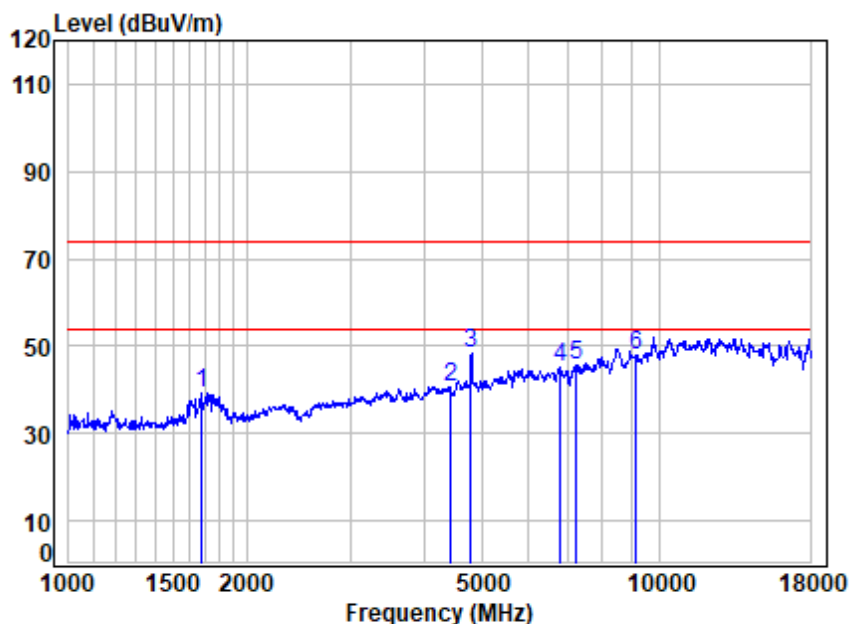


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Test Mode: 02; Polarity: Horizontal;



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1677.621	5.52	25.01	53.42	62.20	39.31	74.00	-34.69	peak	0.00
2	4443.453	8.10	31.14	53.04	54.59	40.79	74.00	-33.21	peak	0.00
3	4804.000	8.26	31.98	53.15	61.50	48.59	74.00	-25.41	peak	0.00
4	6776.265	8.63	35.30	53.22	54.26	44.97	74.00	-29.03	peak	0.00
5	7206.000	8.83	36.06	53.42	54.21	45.68	74.00	-28.32	peak	0.00
6	9099.724	11.25	38.00	53.92	52.71	48.04	74.00	-25.96	peak	0.00

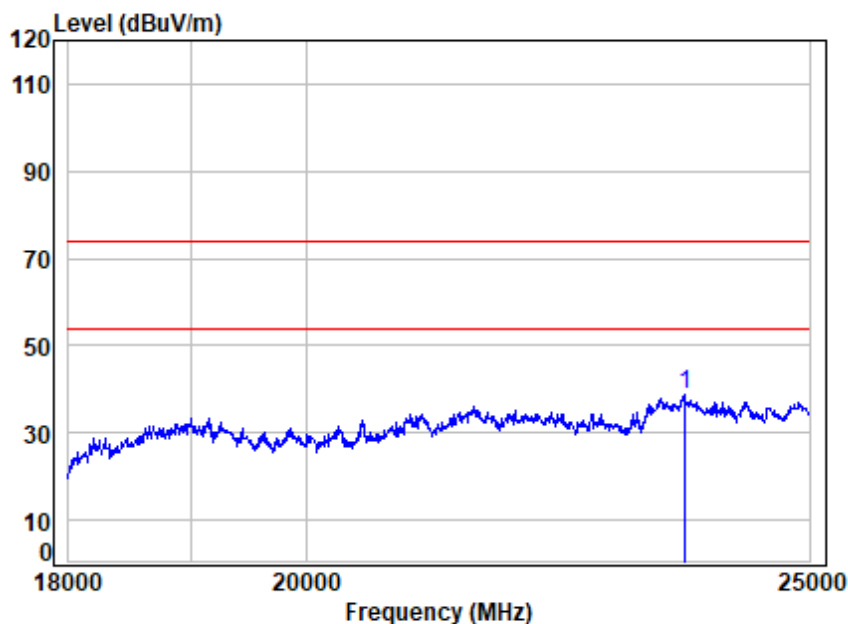


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Test Mode: 02 Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No : 0361at

Mode :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23657.660	9.20	38.87	45.20	45.29	38.62	74.00	-35.38	Peak	-9.54



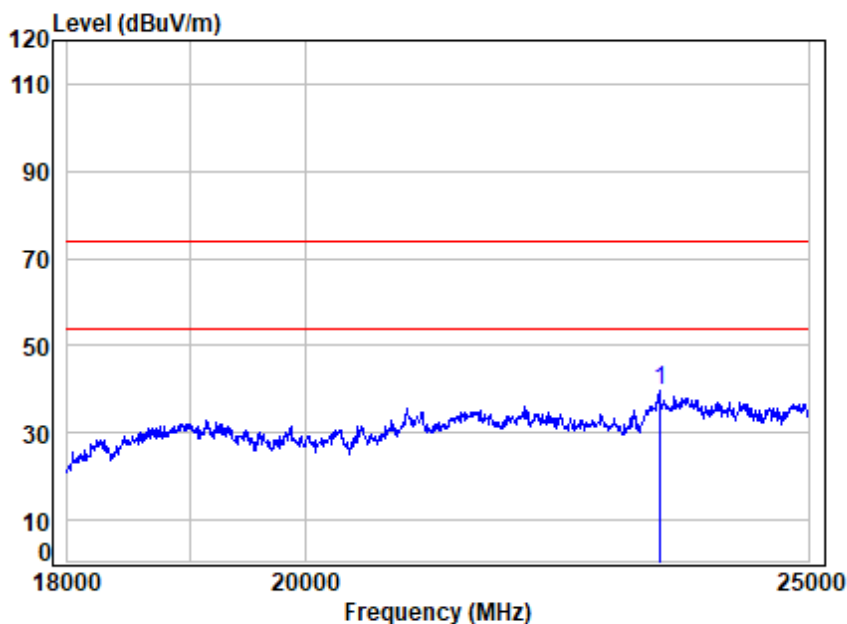
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Test Mode: 02 Polarity: Vertical



Condition: 3m VERTICAL

Job No : 0361at

Mode :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23402.590	9.17	38.46	45.28	46.68	39.49	74.00	-34.51	Peak	-9.54



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7.6 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.9
 Test Engineer: Rex Liu

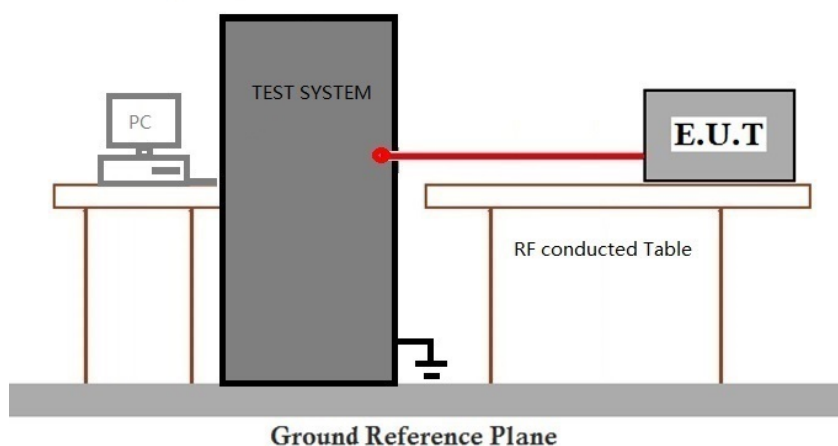
7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar

7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	TX mode with modulation

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.



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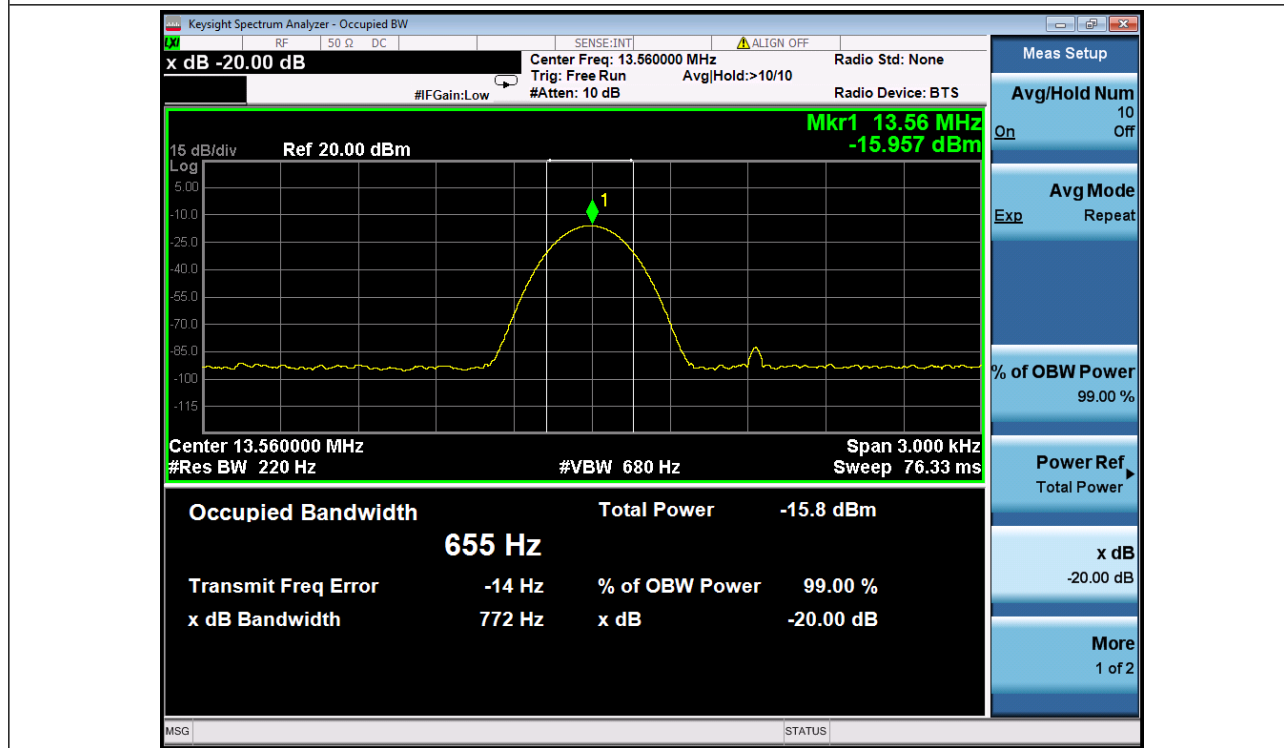
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Test Mode: 02

Operating Frequency (MHz)	20dB Bandwidth (Hz)	Limit	Result
13.56	772	--	Pass

The spectrum analyzer has set RBW to the minimum level.



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7.7 Frequency tolerance

Test Requirement	47 CFR Part 15, Subpart C 15.225(e)
Test Method:	ANSI C63.10-2020+Cor.1-2023 Section 6.8
Test Engineer:	Rex Liu
Limit:	Within $\pm 0.01\%$ of the operating frequency

7.7.1 E.U.T. Operation

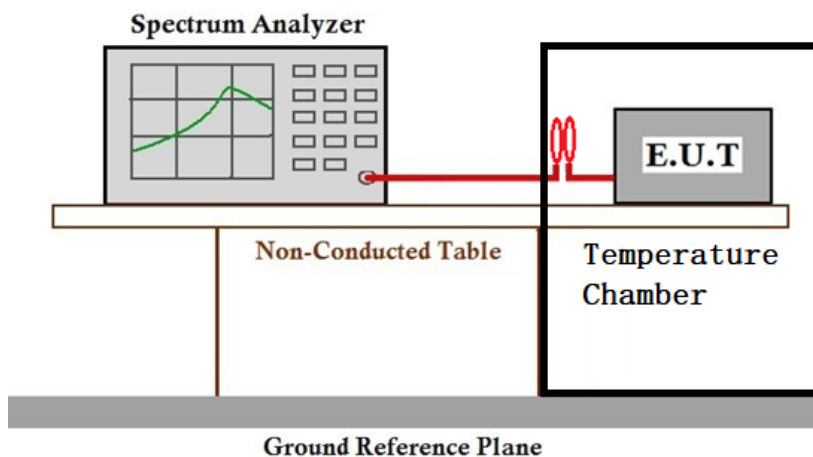
Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 995 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	TX mode with modulation

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.



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SZCCS-TRF-01 Rev. A/2

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Test model: 00

Limit: $\pm 0.01\%$

Start up

Voltage (V DC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 5$	-20	13.561299	0.0096%	Pass
	-10	13.561065	0.0079%	Pass
	0	13.561087	0.0080%	Pass
	10	13.561025	0.0076%	Pass
	$T_{\text{normal}} : +20$	13.560448	0.0033%	Pass
	30	13.56126	0.0093%	Pass
	40	13.561175	0.0087%	Pass
	50	13.561003	0.0074%	Pass
$V_{\text{max}} : 5.75$	$T_{\text{normal}} : +20$	13.561269	0.0094%	Pass
$V_{\text{min}} : 4.25$		13.56115	0.0085%	Pass

2min

Voltage (V DC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 5$	-20	13.561042	0.0077%	Pass
	-10	13.561353	0.0100%	Pass
	0	13.561227	0.0090%	Pass
	10	13.561137	0.0084%	Pass
	$T_{\text{normal}} : +20$	13.560448	0.0033%	Pass
	30	13.561143	0.0084%	Pass
	40	13.561063	0.0078%	Pass
	50	13.561342	0.0099%	Pass
$V_{\text{max}} : 5.75$	$T_{\text{normal}} : +20$	13.561228	0.0091%	Pass
$V_{\text{min}} : 4.25$		13.561183	0.0087%	Pass

5min

Voltage (V DC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 5$	-20	13.561048	0.0077%	Pass
	-10	13.561298	0.0096%	Pass
	0	13.561151	0.0085%	Pass
	10	13.561321	0.0097%	Pass
	$T_{\text{normal}} : +20$	13.560448	0.0033%	Pass
	30	13.561112	0.0082%	Pass
	40	13.561172	0.0086%	Pass
	50	13.561144	0.0084%	Pass
$V_{\text{max}} : 5.75$	$T_{\text{normal}} : +20$	13.561283	0.0095%	Pass
$V_{\text{min}} : 4.25$		13.561018	0.0075%	Pass

10min

Voltage (V DC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 5$	-20	13.561034	0.0076%	Pass
	-10	13.561321	0.0097%	Pass
	0	13.561282	0.0095%	Pass
	10	13.561217	0.0090%	Pass
	$T_{\text{normal}} : +20$	13.560448	0.0033%	Pass
	30	13.561161	0.0086%	Pass
	40	13.561077	0.0079%	Pass
	50	13.561052	0.0078%	Pass
$V_{\text{max}} : 5.75$	$T_{\text{normal}} : +20$	13.561018	0.0075%	Pass
$V_{\text{min}} : 4.25$		13.561236	0.0091%	Pass



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR260700036102



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2607000361AT

- End of the Report -



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