

Prüfbericht-Nr.: Test report no.:	CN25RMJ8 004	Auftrags-Nr.: Order no.:	168572937	Page 1 of 22 Seite 1 von 22
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-09-01	
Auftraggeber: Client:	Harman International Industries, Inc 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: Test item:	Partybox Wireless Mic			
Bezeichnung / Typ-Nr.: Identification / Type no.:	EASYSING MICS TM (Trademark: JBL)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209		RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021	
Wareneingangsdatum: Date of sample receipt:	2025-08-08	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A004063311			
Prüfzeitraum: Testing period:	2025-08-08 – 2025-09-09			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2025-10-31	Ausstellungsdatum: Issue date:		2025-10-31
Signed by: Harry W. C. Wu		Signed by: Alex Lan		
Stellung / Position:	Project Manager	Stellung / Position:	Authorizer	
Sonstiges / Other:	This report is for Dongle part. FCC ID: APIEASYSGMICTM IC: 6132A-EASYSGMICTM HVIN: EASYSING MICS TM			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				
TUV Rheinland (Shenzhen) Co., Ltd., 1601-1604, 1801-1804, Tower A Building 2, Shenzhen International Innovation Valley, Dashi 1st Road, Xili Street, Xili Community, Nanshan District, Shenzhen 518000, P. R. China Mail: service-gc@tuv.com · Web: www.tuv.com				

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Remarks
Anmerkungen

1	The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. <i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i> <i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i>
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3	Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report. <i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i>
4	The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019. <i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 99%dB BANDWIDTH

RESULT: Pass

5.1.5 6dB BANDWIDTH

RESULT: Pass

5.1.6 FREQUENCY STABILITY

RESULT: Pass

5.1.7 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.8 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.9 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Dongle

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069 and the CAB identifier is CN0078.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	25.09.2025
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	25.09.2025
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	25.09.2025
DC Power Supply	Keysight	E3642A	MY61276100	25.09.2025
Wireless Connectivity Tester	R&S	CMW270	102505	25.09.2025
Power Control Unit	Tonscend	JS0806-4ADC	N/A	25.09.2025
Automation Control Unit	Tonscend	JS0806-2	21C8060396	25.09.2025
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	24.02.2026
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLY23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Partybox Wireless Mic, which consists of two microphones, a Dongle and a USB-C to USB-A Connector. The microphones and Dongle support 2.4GHz SRD wireless technology.

Two microphones are identical in electrical circuit design and PCB layout.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Partybox Wireless Mic
Type Designation	EASYSING MICS TM
Trademark	JBL
FCC ID	APIEASYSGMICTM
IC	6132A-EASYSGMICTM
HVIN	EASYSING MICS TM
Extreme Temperature Range	0°C to +45°C
Operating Voltage	DC 5V, 0.5A via Type C interface
Technical Specification of Dongle	
Operating Frequency band	2404 ~ 2478 MHz
Channel Number	37 channels
Channel separation	2MHz
Modulation	GFSK
Antenna Type	MIC antenna
Antenna Gain	1.79 dBi (Provided by the Client)

Table 3: RF Channel and Frequency

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2404.00	10	2424.00	20	2446.00	30	2466.00
01	2406.00	11	2428.00	21	2448.00	31	2468.00
02	2408.00	12	2430.00	22	2450.00	32	2470.00
03	2410.00	13	2432.00	23	2452.00	33	2472.00
04	2412.00	14	2434.00	24	2454.00	34	2474.00
05	2414.00	15	2436.00	25	2456.00	35	2476.00
06	2416.00	16	2438.00	26	2458.00	36	2478.00
07	2418.00	17	2440.00	27	2460.00		
08	2420.00	18	2442.00	28	2462.00		
09	2422.00	19	2444.00	29	2464.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, wireless connecting mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N or Rating
Laptop	Lenovo	T480	PF-16A6N8
AC/DC Adapter	Xiaomi	MDY-11-EX	Input: 100-240V, 50/60Hz, 0.7A Output: DC 5V, 3A or DC 9V, 3A
Speaker	Harman	Partybox 520	N/A
Wireless Microphone	Harman	EASYSING MICS	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

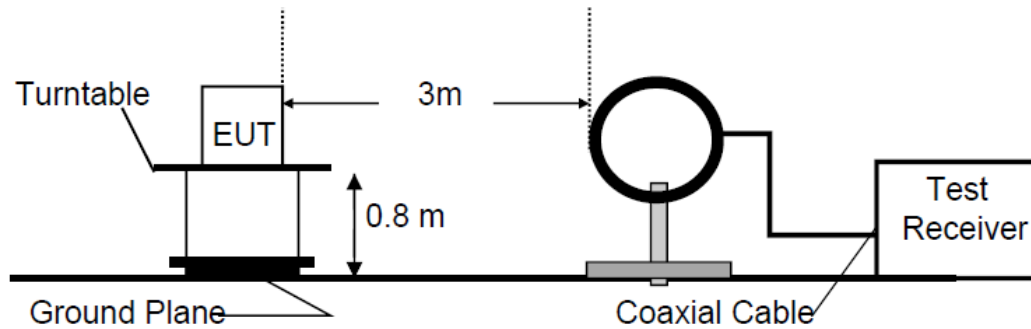


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

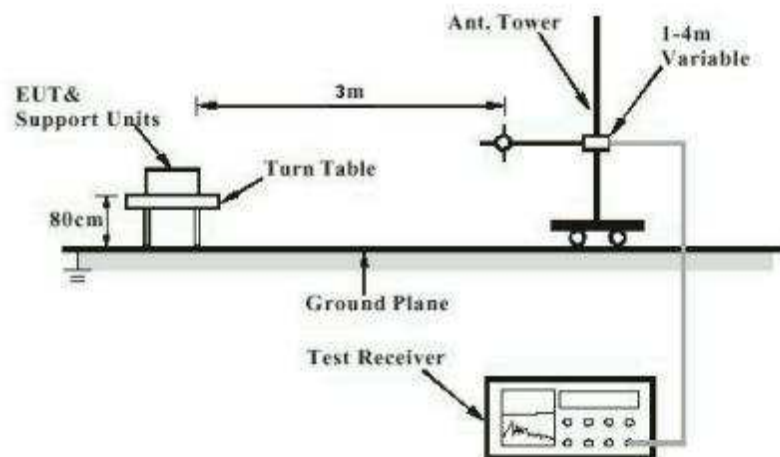


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

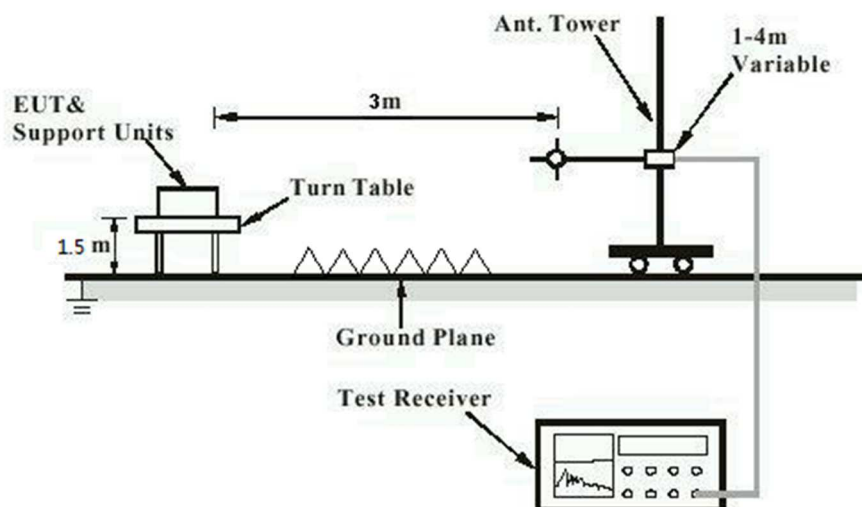


Diagram of Measurement Configuration for Conducted Transmitter Measurement

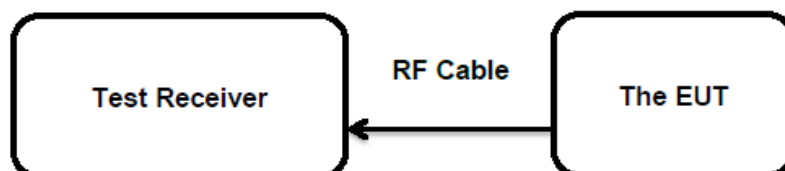
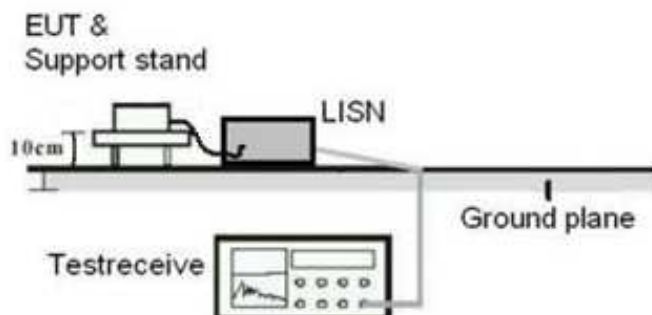


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has one MIC antenna, the directional gain of antenna: 1.79dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
: RSS-247 Clause 5.4(d)
Basic standard : ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-
: 2023+C63.10a-2024
Limits : < 1 Watt (Maximum Conducted Peak Power)
: e.i.r.p. <4W
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-08 to 2025-09-09
Input voltage : DC 3.7V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.5 °C
Relative humidity : 50.4 %
Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Peak Conducted Output Power

Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
2 Mbps	2404	8.05	0.0064	< 1.0
	2440	7.88	0.0061	
	2478	7.56	0.0057	
Maximum Measured Value		8.05	0.0064	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 9.84 dBm less than 4W (36 dBm).

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5.1.3 Conducted Power Spectral Density

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(e)
RSS-247 Clause 5.2(b)
Basic standard : ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-
2023+C63.10a-2024
Limits : 8 dBm / 3kHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-08 to 2025-09-09
Input voltage : DC 3.7V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.5 °C
Relative humidity : 50.4 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 6: Test Result of Conducted Power Spectral Density

Data Rate	Channel Frequency (MHz)	Measured Conducted Power Spectral Density	Limit
		(dBm / 3kHz)	
2 Mbps	2404	-4.78	8 dBm / 3kHz
	2440	-4.20	
	2478	-5.69	

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5.1.4 99%dB Bandwidth

RESULT:
Pass
Test Specification

Test standard : RSS-Gen clause 6.7
Basic standard : ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-08 to 2025-09-09
Input voltage : DC 3.7V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.5 °C
Relative humidity : 50.4 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 7: Test Result of 99% Bandwidth

Data Rate	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
2 Mbps	2404	2.0522	/
	2440	2.0351	
	2478	2.0571	

Note: The fundamental emissions stay within the allocated band 2400-2483.5MHz.

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5.1.5 6dB Bandwidth

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(a)(2)
: RSS-247 Clause 5.2(a)
Basic standard : ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-
: 2023+C63.10a-2024
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-08 to 2025-09-09
Input voltage : DC 3.7V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.5 °C
Relative humidity : 50.4 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 8: Test Result of 6dB Bandwidth

Data Rate	Channel Frequency (MHz)	Measured 6dB Bandwidth	Limit
		(MHz)	
2 Mbps	2404	1.296	>500kHz
	2440	1.300	
	2478	1.460	

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5.1.6 Frequency stability

RESULT:

Pass

Test Specification

Test standard	: RSS-247 Clause 8.11
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits	: within at least the central 80% of its permitted operating frequency band (2400-2483.5MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-08 to 2025-09-09
Input voltage	: DC 3.7V
Operation mode	: B
Ambient temperature	: 23.5 °C
Relative humidity	: 50.4 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.7 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-08 to 2025-09-09
Input voltage	: DC 3.7V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 23.5 °C
Relative humidity	: 50.4 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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5.1.8 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	:	ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2025-08-08 to 2025-09-09
Input voltage	:	DC 3.7V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

Prüfbericht-Nr.: **CN25RMJ8 004**
Test report no.:

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5.1.9 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-08 to 2025-09-09
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

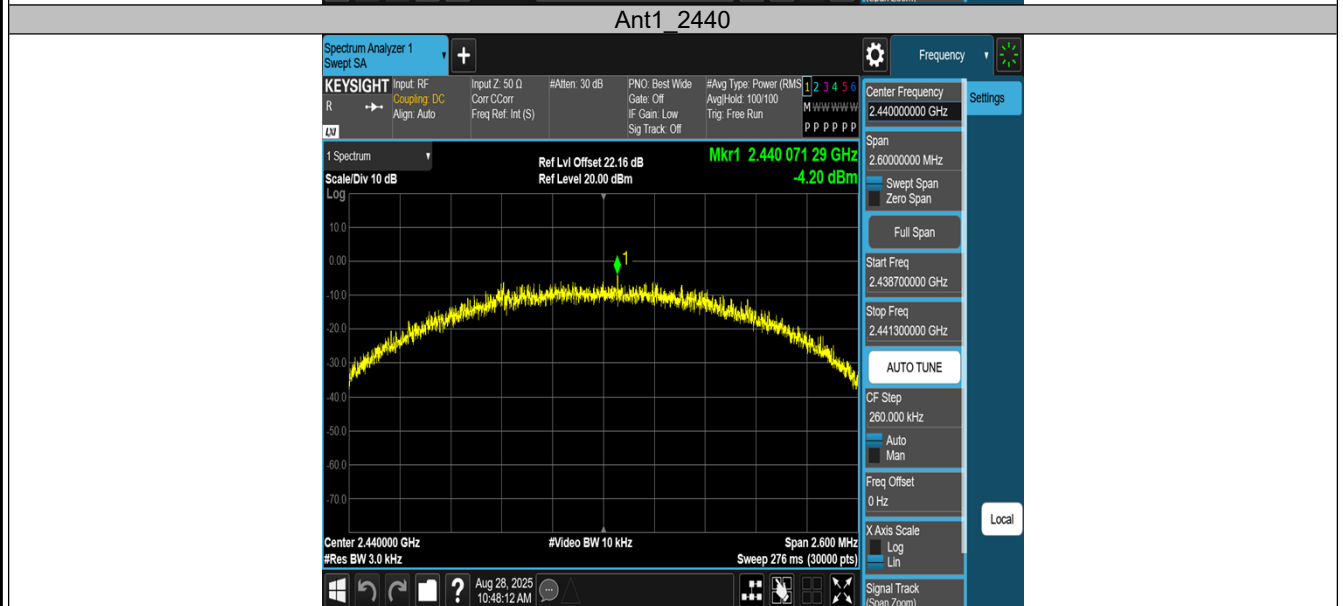
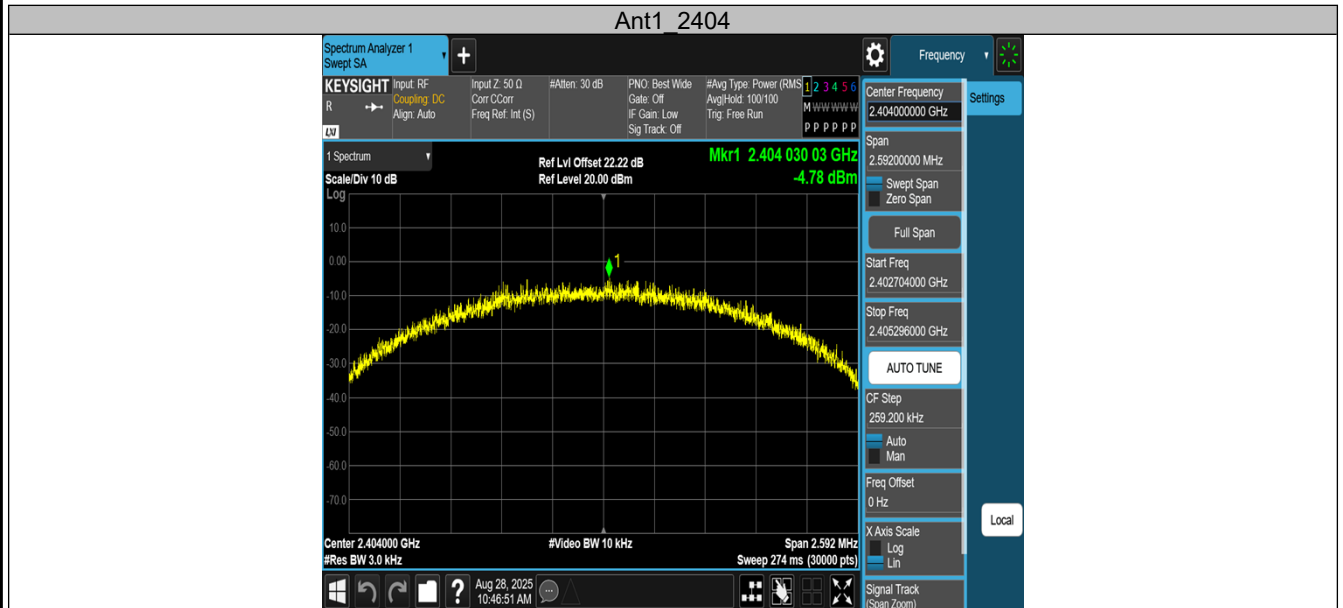
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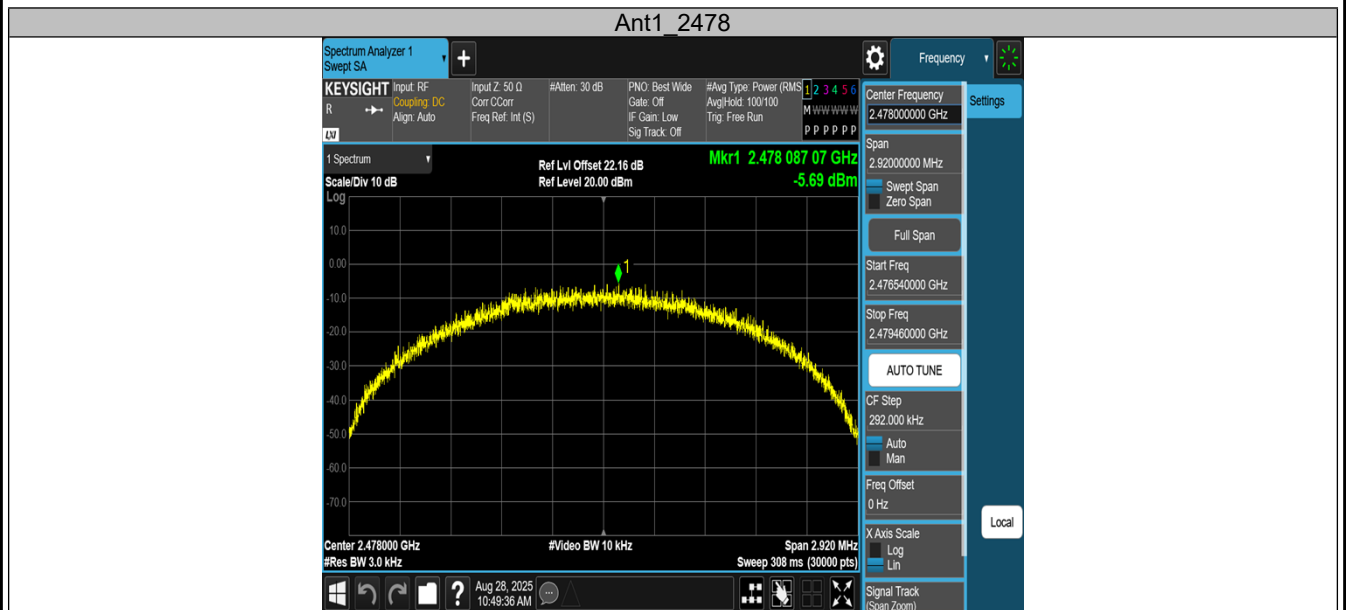
Appendix B: Test Results of Dongle

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Appendix B.1: Test Results of Conducted Power Spectral Density

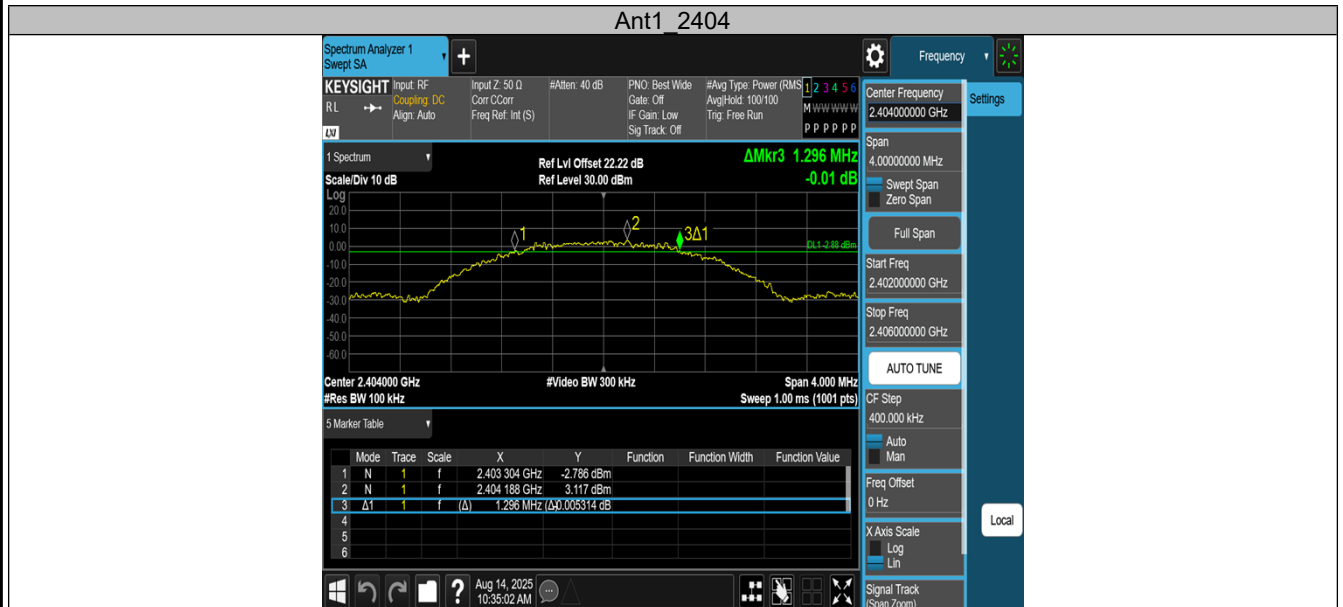
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
TX	Ant1	2404	-4.78	≤8.00	PASS
		2440	-4.20	≤8.00	PASS
		2478	-5.69	≤8.00	PASS

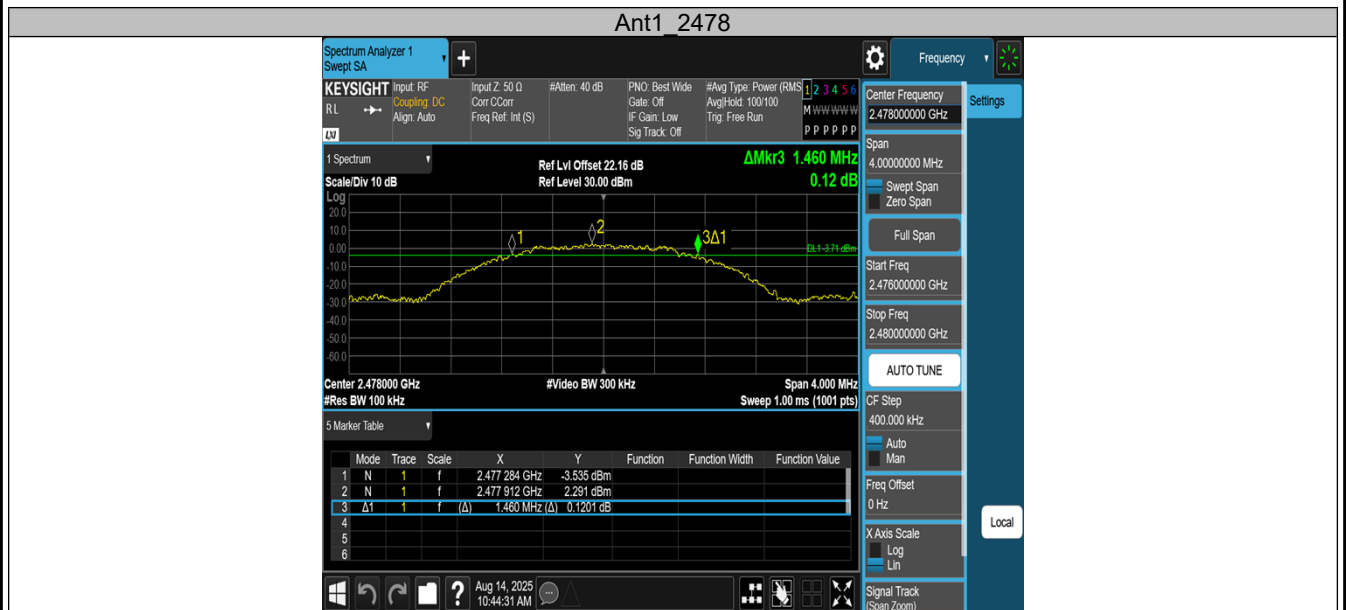




Appendix B.2: Test Results of 6dB Bandwidth

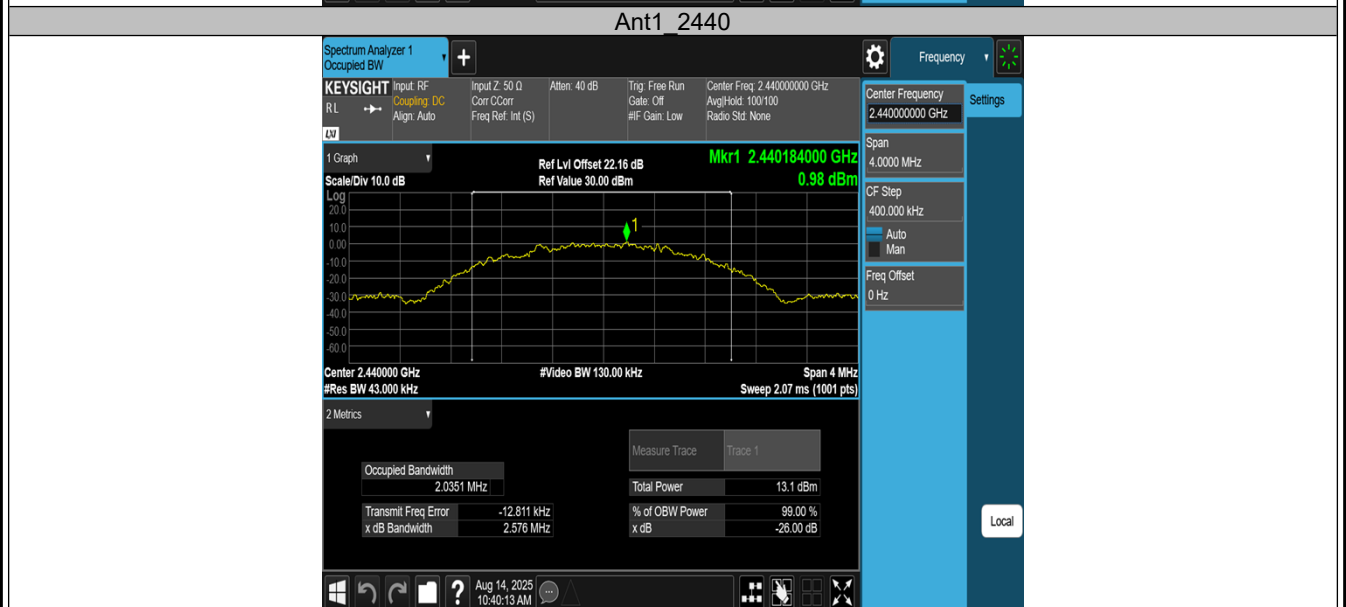
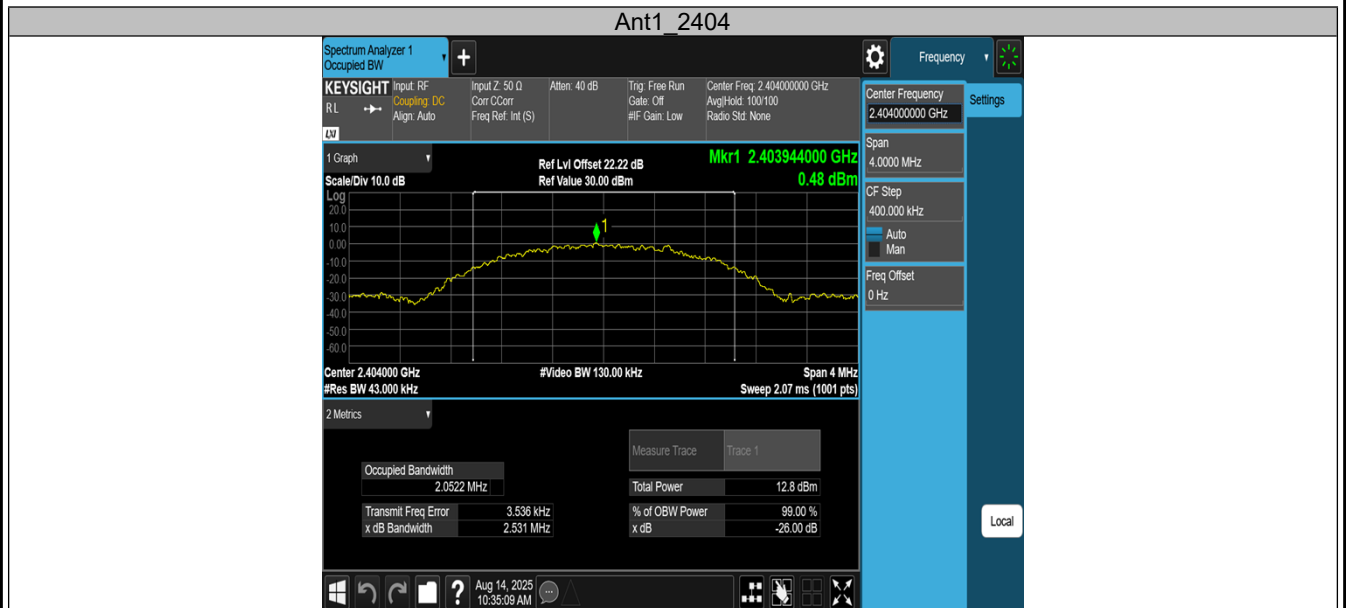
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
TX	Ant1	2404	1.296	2403.304	2404.600	0.5	PASS
		2440	1.300	2439.368	2440.668	0.5	PASS
		2478	1.460	2477.284	2478.744	0.5	PASS

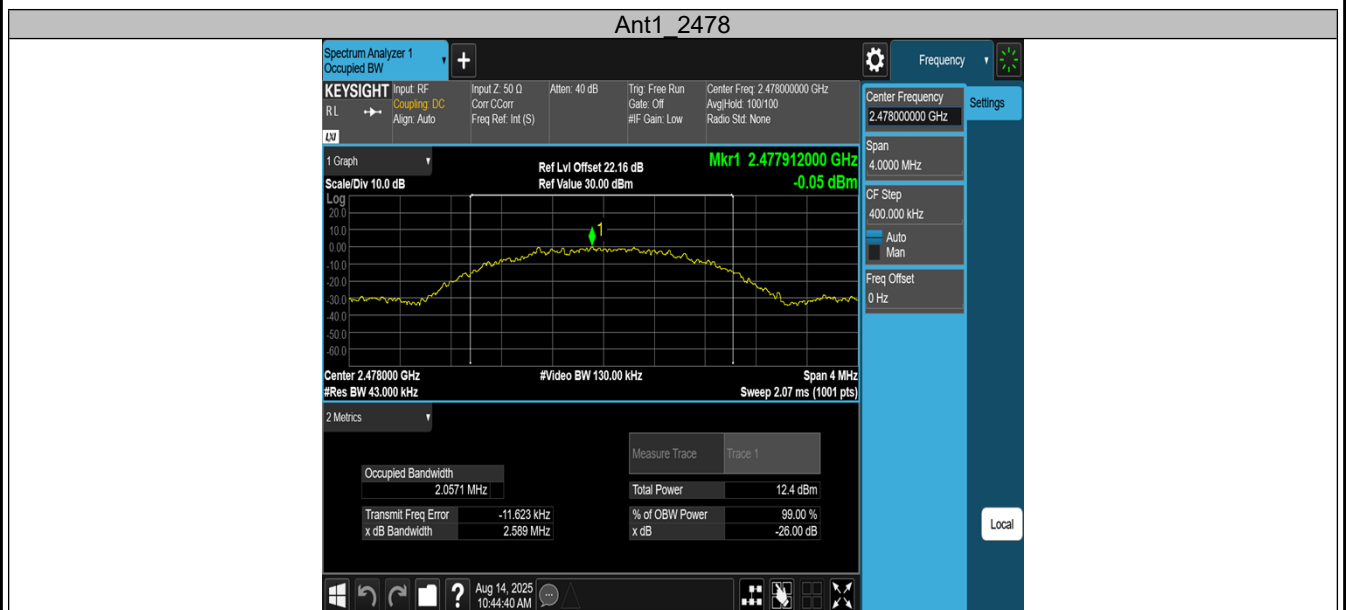




Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
TX	Ant1	2404	2.0522	2402.9774	2405.0296	---	---
		2440	2.0351	2438.9696	2441.0047	---	---
		2478	2.0571	2476.9598	2479.0169	---	---





Appendix B.4: Test Results of Frequency stability

Test Channel (MHz)	2404
-----------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.7V	2403.990	-10	-4.16	10
DC 3.33V	2403.990	-10	-4.16	
DC 4.07V	2403.990	-10	-4.16	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2403.991	-9	-3.75	10
-20	2403.992	-8	-3.33	
-10	2403.992	-8	-3.33	
0	2403.991	-9	-3.75	
10	2403.990	-10	-4.16	
20	2403.990	-10	-4.16	
30	2403.990	-10	-4.16	
40	2403.990	-10	-4.16	
50	2403.991	-9	-3.75	
55	2403.991	-9	-3.75	

Test Channel (MHz)	2440
-----------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.7V	2439.990	-10	-4.10	10
DC 3.33V	2439.990	-10	-4.10	
DC 4.07V	2439.990	-10	-4.10	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2439.992	-8	-3.28	10
-20	2439.992	-8	-3.28	
-10	2439.991	-9	-3.69	
0	2439.990	-10	-4.10	
10	2439.990	-10	-4.10	
20	2439.990	-10	-4.10	
30	2439.990	-10	-4.10	
40	2439.990	-10	-4.10	
50	2439.991	-9	-3.69	
55	2439.991	-9	-3.69	

Test Channel (MHz)	2478
-----------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.7V	2477.990	-10	-4.03	10
DC 3.33V	2477.990	-10	-4.03	
DC 4.07V	2477.990	-10	-4.03	

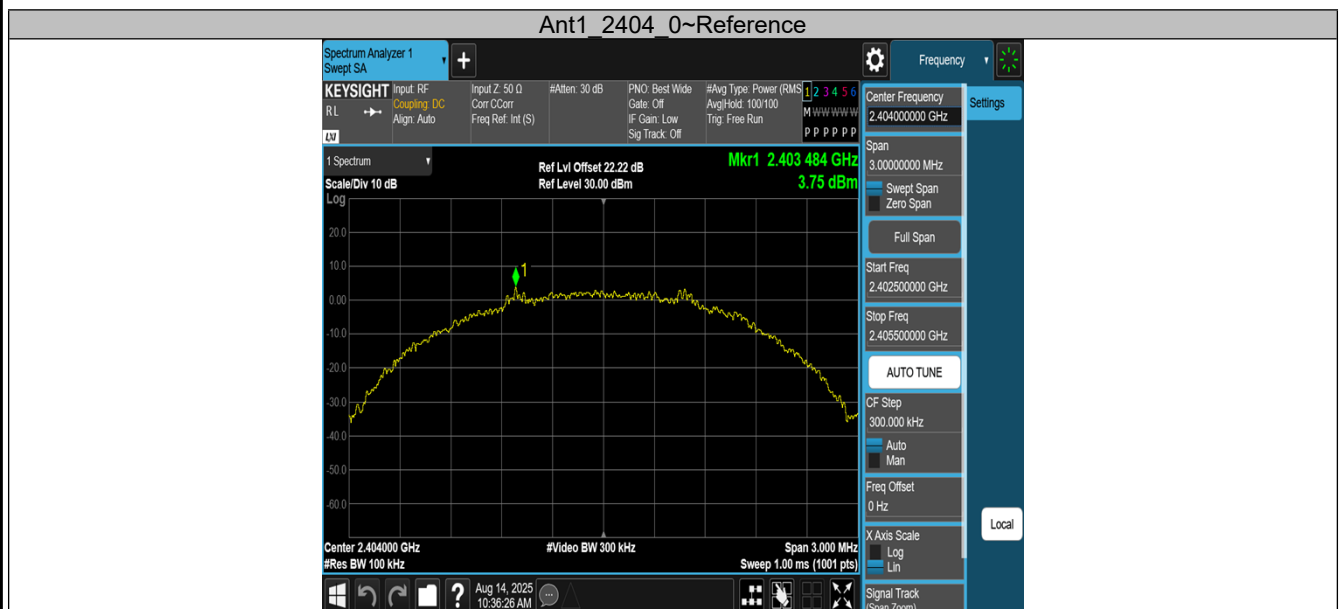
Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2477.992	-8	-3.23	10
-20	2477.992	-8	-3.23	
-10	2477.991	-9	-3.63	
0	2477.990	-10	-4.03	
10	2477.990	-10	-4.03	
20	2477.990	-10	-4.03	
30	2477.990	-10	-4.03	
40	2477.990	-10	-4.03	
50	2477.991	-9	-3.63	
55	2477.991	-9	-3.63	

Appendix B.5: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
TX	Ant1	2404	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-37.38	≤-16.25	PASS
			1000~26500	3.75	-27.76	≤-16.25	PASS
		2440	Reference	3.91	3.91	---	PASS
			30~1000	3.91	-37.41	≤-16.09	PASS
			1000~26500	3.91	-28.68	≤-16.09	PASS
		2478	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-37.29	≤-16.79	PASS
			1000~26500	3.21	-28.16	≤-16.79	PASS



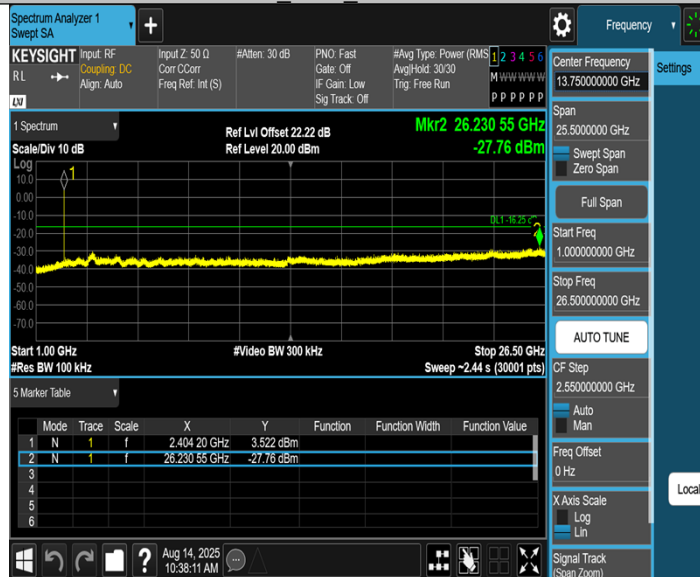
Appendix B CN25RMJ8 004



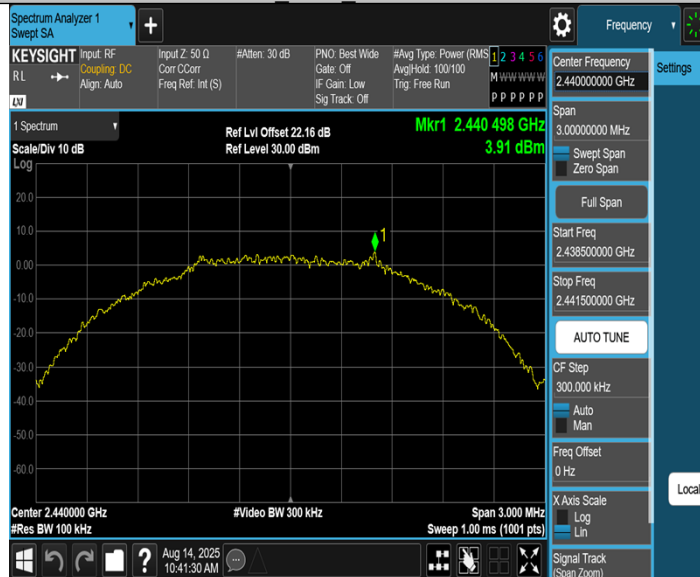
Prüfbericht - Produkte
Test Report - Products

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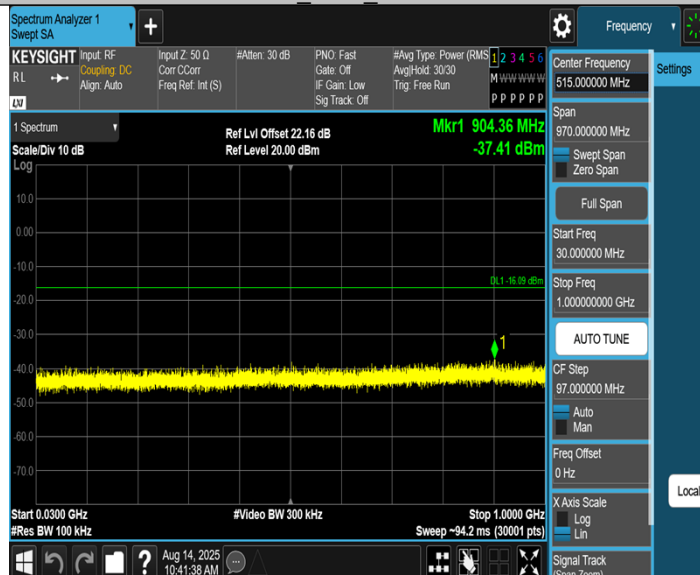
Ant1 2404 1000~26500



Ant1 2440 0~Reference



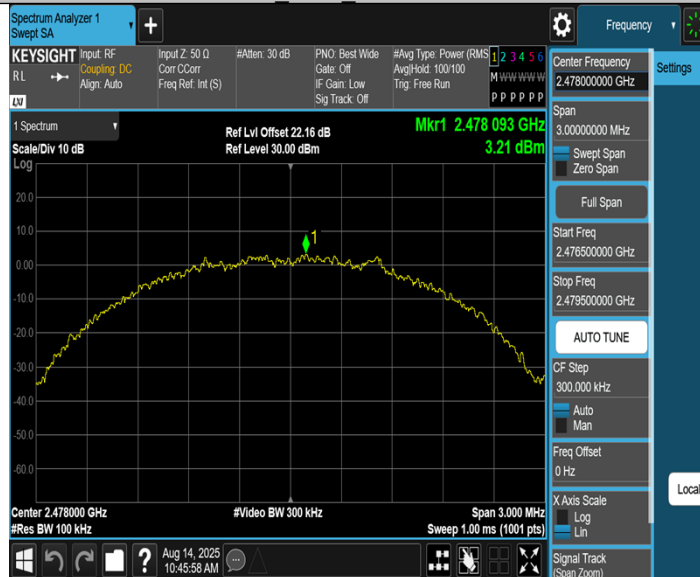
Ant1 2440 30~1000



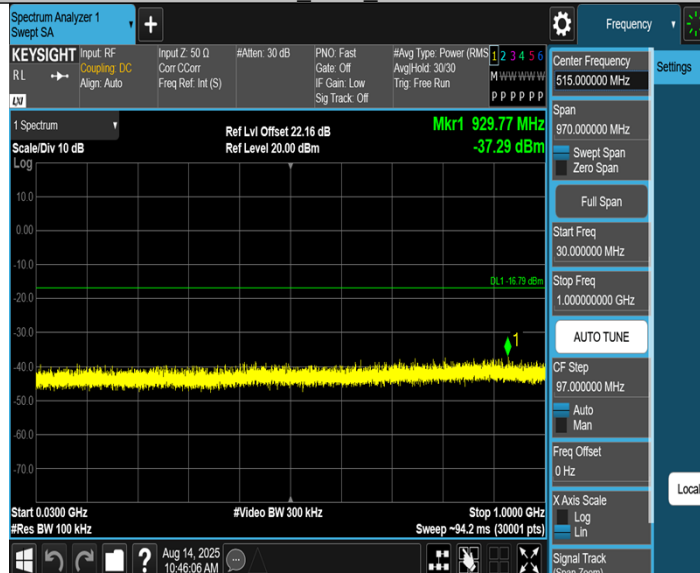
Ant1_2440_1000~26500

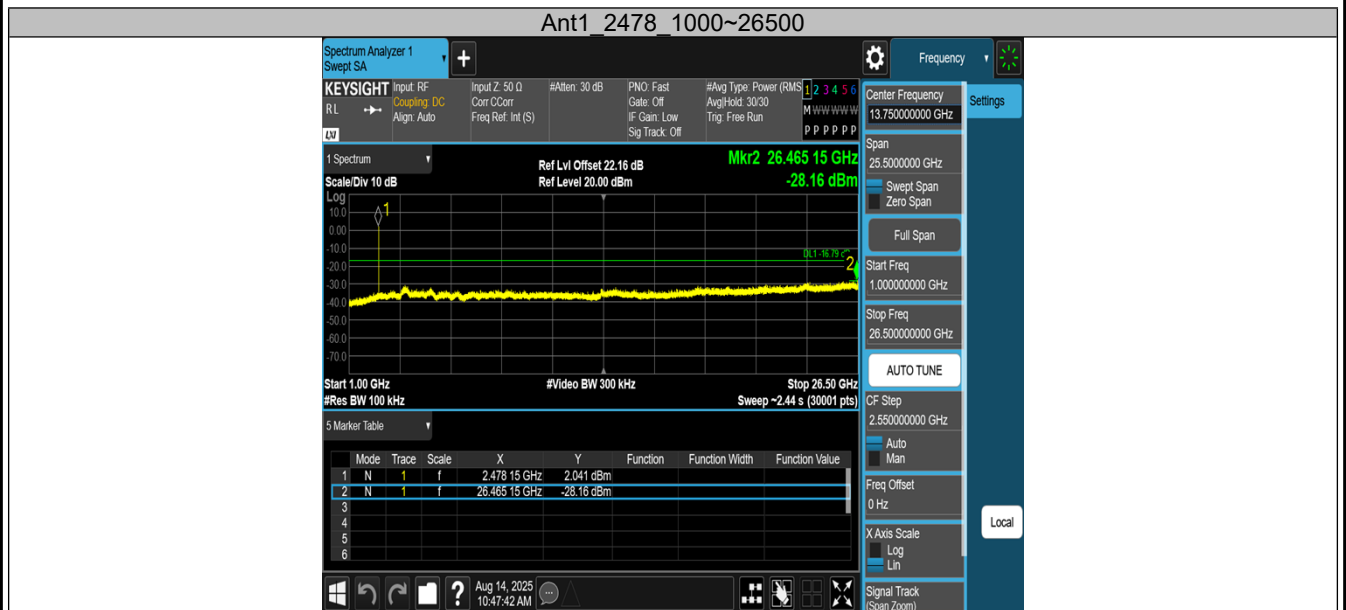


Ant1_2478_0~Reference



Ant1_2478_30~1000





Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
TX	Ant1	Low	2404	3.66	-40.54	≤-16.34	PASS
		High	2478	3.00	-40.71	≤-17.00	PASS



Appendix B.6: Test Results of Radiated Spurious Emissions

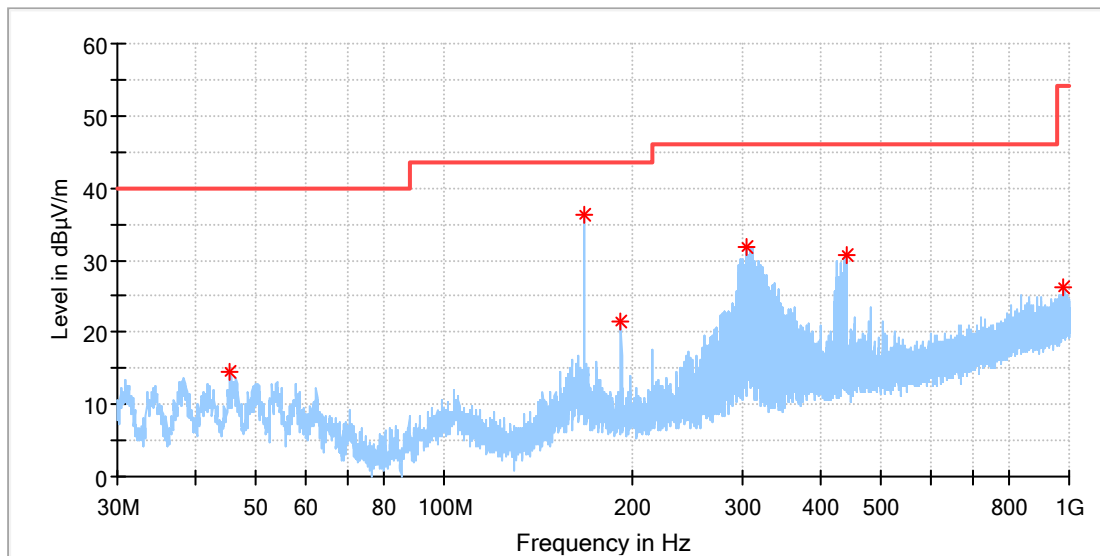
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

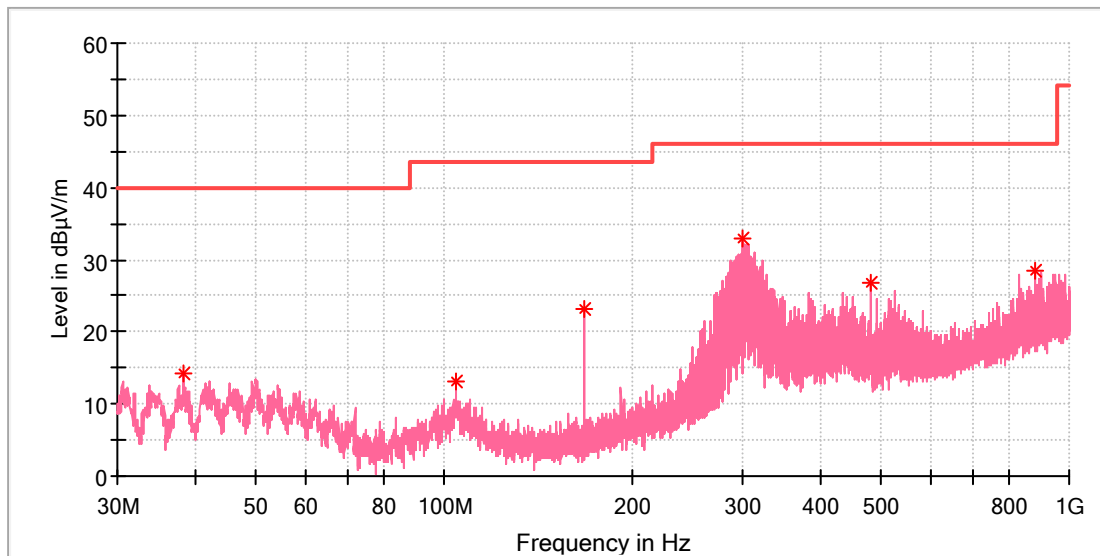


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.520000	14.47	40.00	25.53	100.0	H	72.0	-18.9
168.001154	36.19	43.50	7.31	100.0	H	17.0	-21.4
191.990000	21.50	43.50	22.00	100.0	H	17.0	-19.5
305.032308	31.89	46.00	14.11	100.0	H	44.0	-16.1
439.228077	30.81	46.00	15.19	100.0	H	153.0	-13.0
979.406154	26.14	54.00	27.86	100.0	H	44.0	-3.8

EUT Information

EUT Name: Partybox Wireless Mic
Model: EASYSING MICS TM
Test Mode: 2.4GHz_Mid channel
Order No/Sample No: 168568982/A004063311-005
Test Voltage:: DC 5V From USB
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

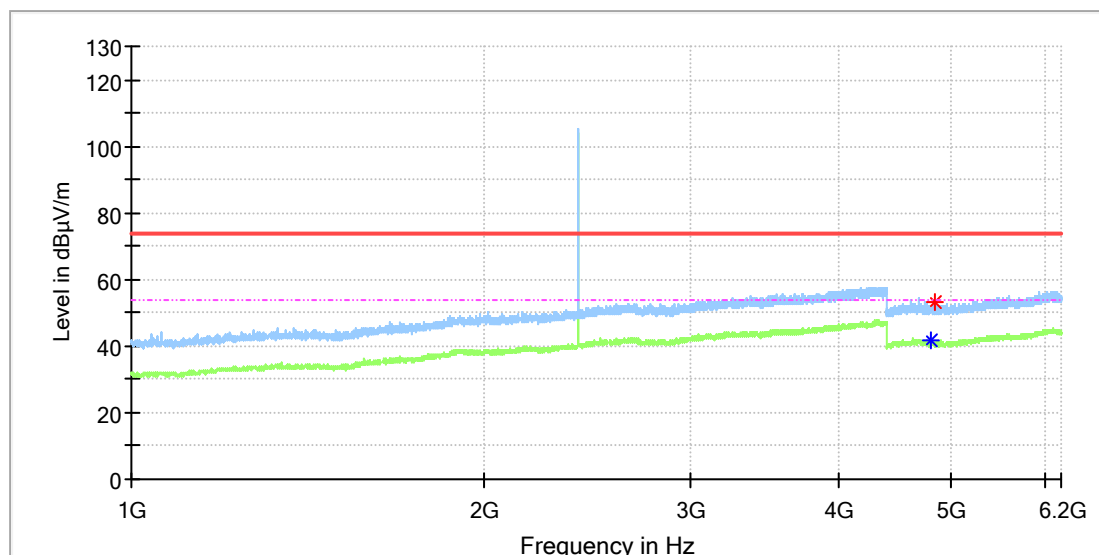
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.245000	14.15	40.00	25.85	100.0	V	161.0	-20.7
104.205000	13.23	43.50	30.27	100.0	V	359.0	-18.9
168.001154	23.26	43.50	20.24	100.0	V	279.0	-21.4
300.368846	32.88	46.00	13.12	100.0	V	34.0	-16.3
480.005385	26.77	46.00	19.23	100.0	V	262.0	-12.1
881.398846	28.43	46.00	17.57	100.0	V	135.0	-5.0

1GHz - 18GHz

Note: The highest waveform in the figure is Transmitter Fundamental.

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz Low channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

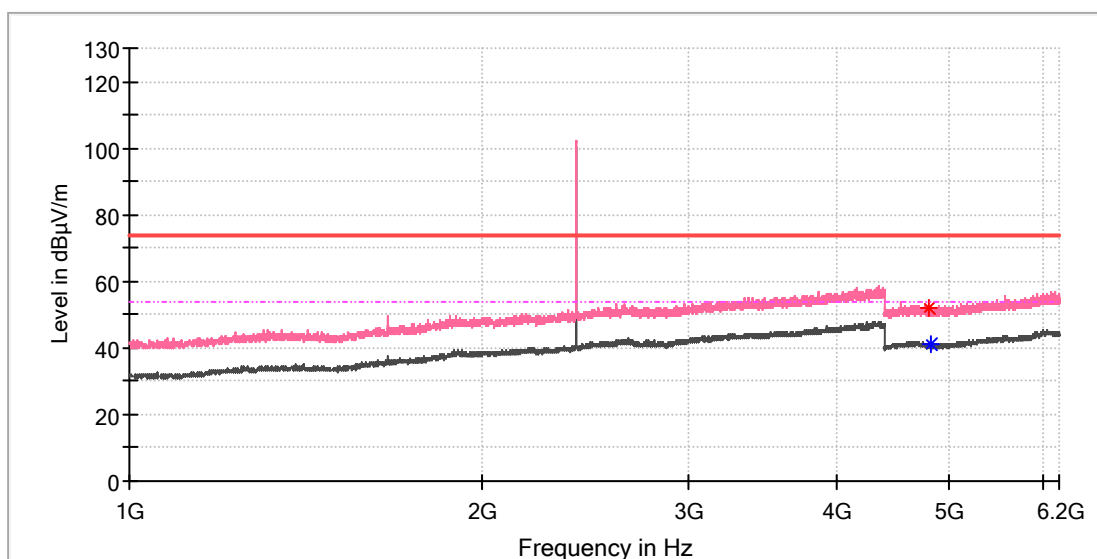


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4806.500000	---	41.57	54.00	12.43	150.0	H	20.0	13.3
4832.000000	53.01	---	74.00	20.99	150.0	H	318.0	13.3

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz Low channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

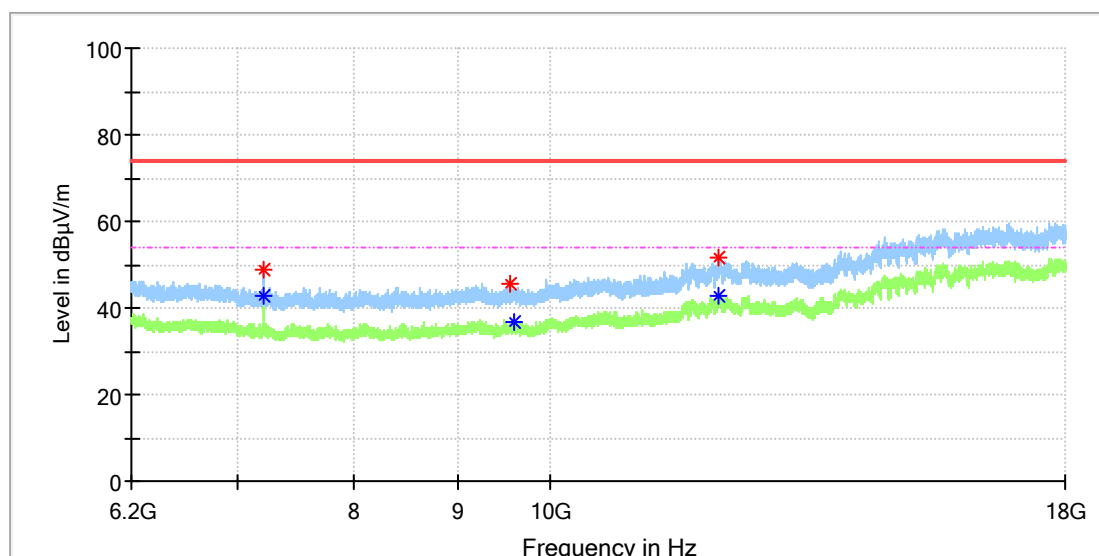


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4810.000000	52.18	---	74.00	21.82	150.0	V	264.0	13.3
4822.000000	---	41.18	54.00	12.83	150.0	V	160.0	13.3

EUT Information

EUT Name: Partybox Wireless Mic
Model: EASYSING MICS TM
Test Mode: 2.4GHz Low channel
Order No/Sample No: 168568982/A004063311-005
Test Voltage:: DC 5V From USB
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

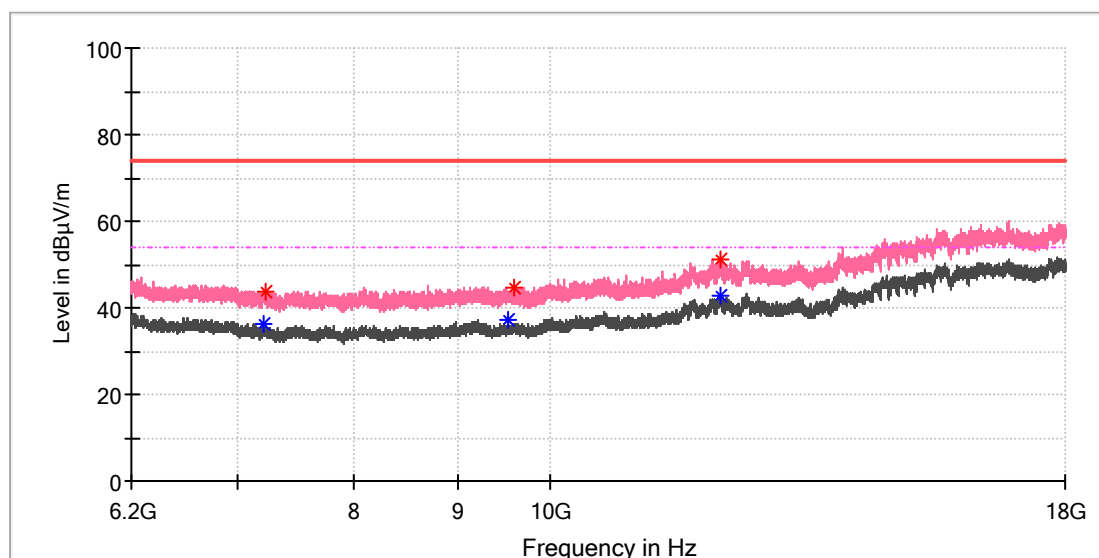


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7210.375000	48.86	---	74.00	25.14	150.0	H	161.0	8.7
7213.325000	---	42.56	54.00	11.44	150.0	H	169.0	8.7
9558.083333	45.37	---	74.00	28.63	150.0	H	112.0	10.2
9605.283333	---	36.73	54.00	17.27	150.0	H	336.0	10.4
12118.683333	51.67	---	74.00	22.33	150.0	H	48.0	15.9
12127.533333	---	42.95	54.00	11.05	150.0	H	1.0	16.1

EUT Information

EUT Name: Partybox Wireless Mic
Model: EASYSING MICS TM
Test Mode: 2.4GHz_Low channel
Order No/Sample No: 168568982/A004063311-005
Test Voltage:: DC 5V From USB
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

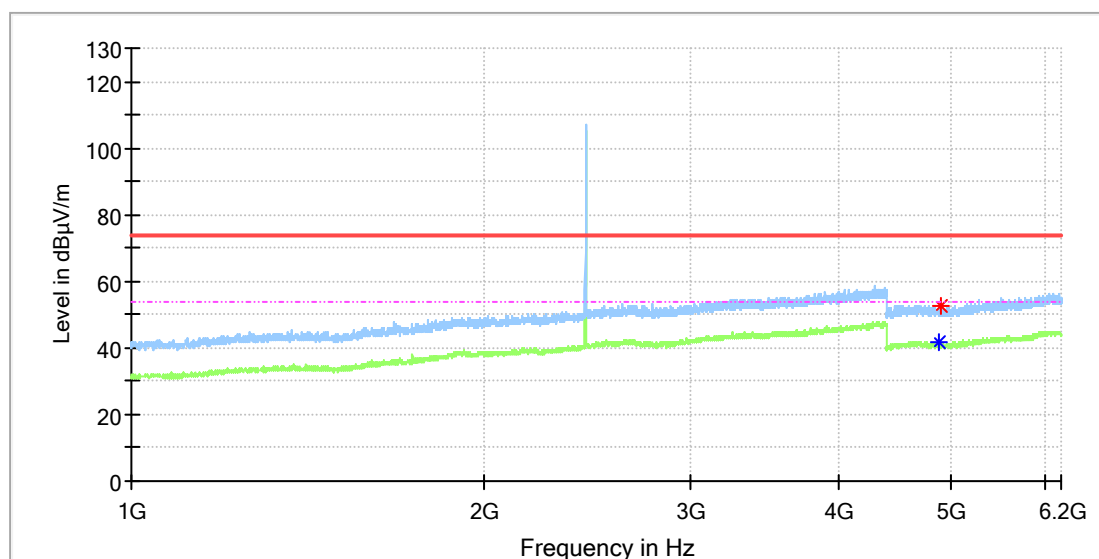


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7210.866667	---	36.34	54.00	17.66	150.0	V	347.0	8.7
7224.633333	43.90	---	74.00	30.10	150.0	V	52.0	8.7
9526.616667	---	37.14	54.00	16.86	150.0	V	272.0	10.1
9605.775000	44.66	---	74.00	29.34	150.0	V	223.0	10.4
12144.250000	---	42.77	54.00	11.23	150.0	V	223.0	16.6
12147.200000	51.15	---	74.00	22.85	150.0	V	127.0	16.7

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

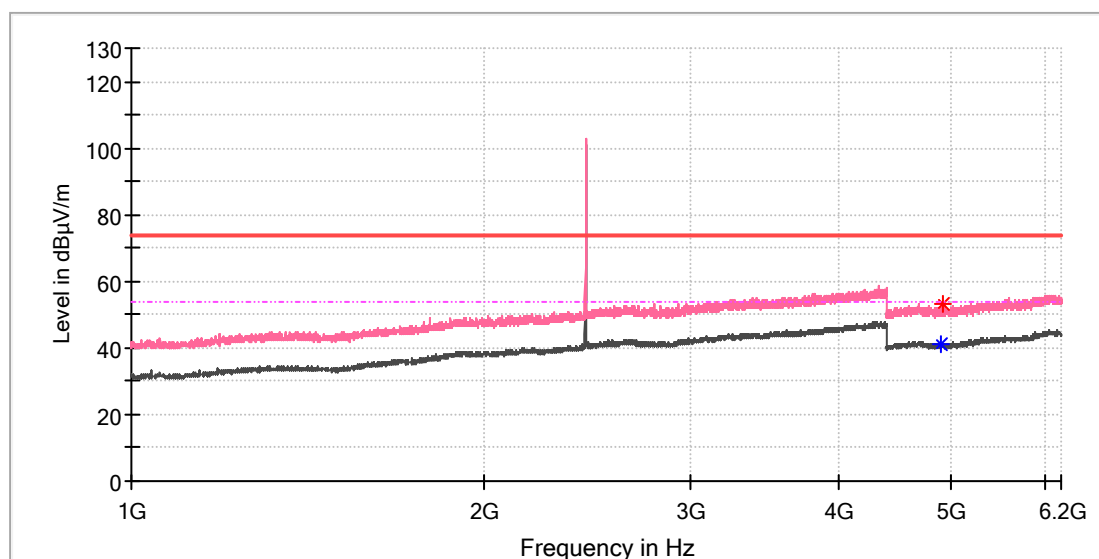


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	---	41.99	54.00	12.01	150.0	H	166.0	13.3
4899.000000	52.33	---	74.00	21.67	150.0	H	87.0	13.3

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

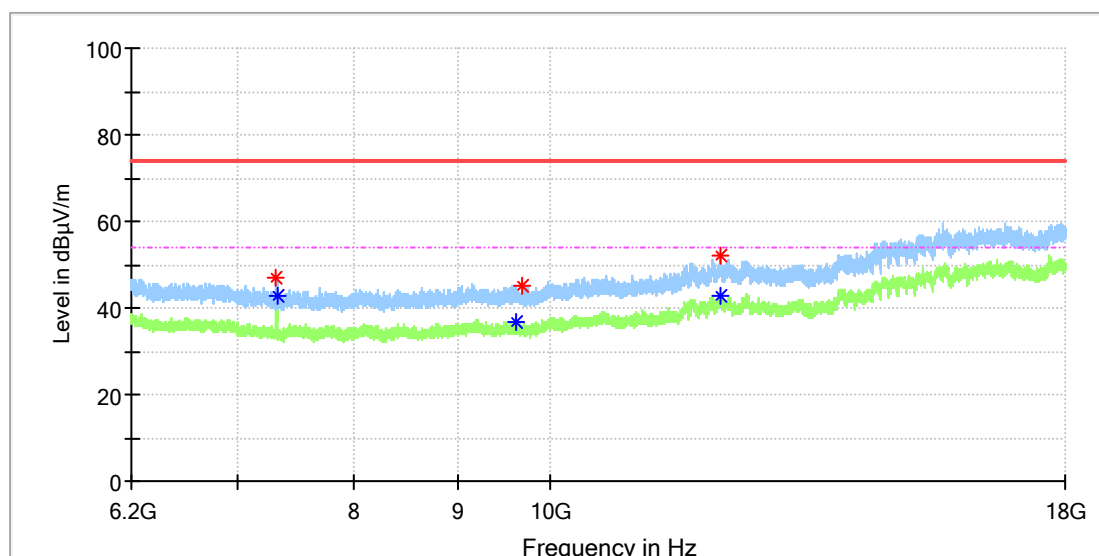


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4903.500000	---	41.19	54.00	12.81	150.0	V	13.0	13.3
4920.000000	52.96	---	74.00	21.04	150.0	V	149.0	13.3

EUT Information

EUT Name: Partybox Wireless Mic
Model: EASYSING MICS TM
Test Mode: 2.4GHz_Mid channel
Order No/Sample No: 168568982/A004063311-005
Test Voltage:: DC 5V From USB
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

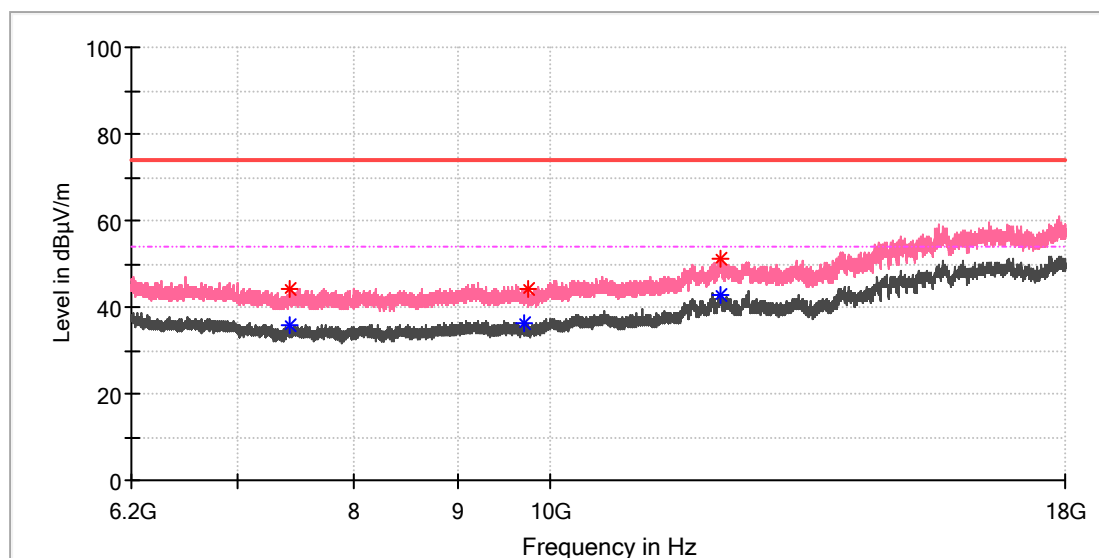


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.050000	47.08	---	74.00	26.92	150.0	H	169.0	8.2
7318.541667	---	42.68	54.00	11.32	150.0	H	169.0	8.2
9625.933333	---	36.77	54.00	17.23	150.0	H	186.0	10.4
9684.933333	44.99	---	74.00	29.01	150.0	H	260.0	10.4
12136.383333	---	42.80	54.00	11.20	150.0	H	67.0	16.4
12156.541667	52.22	---	74.00	21.78	150.0	H	2.0	16.4

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

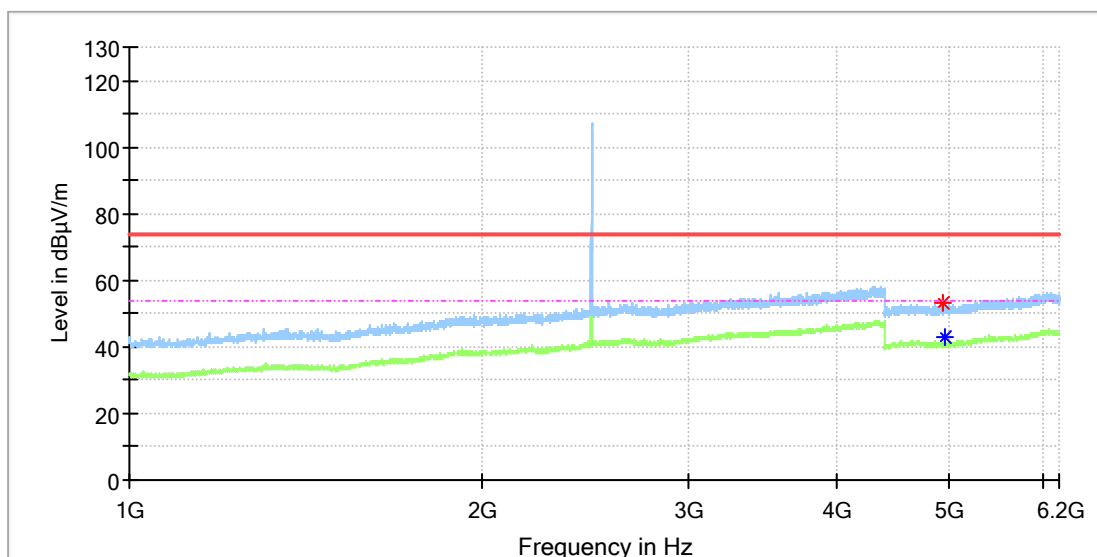


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7425.233333	43.98	---	74.00	30.02	150.0	V	208.0	8.4
7425.725000	---	35.70	54.00	18.30	150.0	V	337.0	8.4
9710.008333	---	36.47	54.00	17.53	150.0	V	0.0	10.4
9757.700000	44.05	---	74.00	29.95	150.0	V	216.0	10.4
12134.416667	51.11	---	74.00	22.89	150.0	V	192.0	16.3
12148.675000	---	42.79	54.00	11.21	150.0	V	175.0	16.7

EUT Information

EUT Name: Partybox Wireless Mic
Model: EASYSING MICS TM
Test Mode: 2.4GHz_High channel
Order No/Sample No: 168568982/A004063311-005
Test Voltage:: DC 5V From USB
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

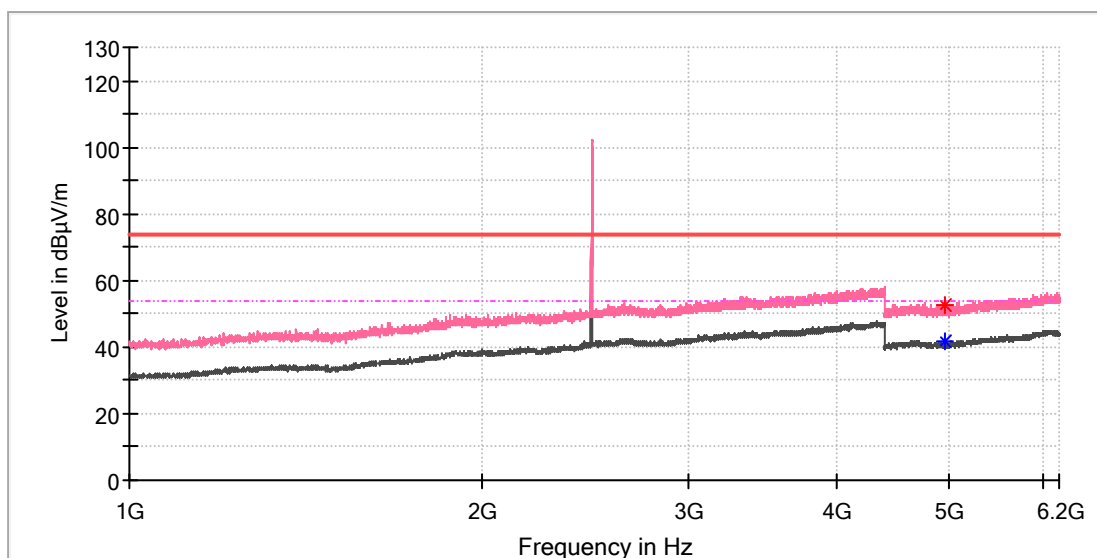


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4944.000000	52.93	---	74.00	21.07	150.0	H	262.0	13.3
4956.000000	---	43.11	54.00	10.89	150.0	H	168.0	13.3

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

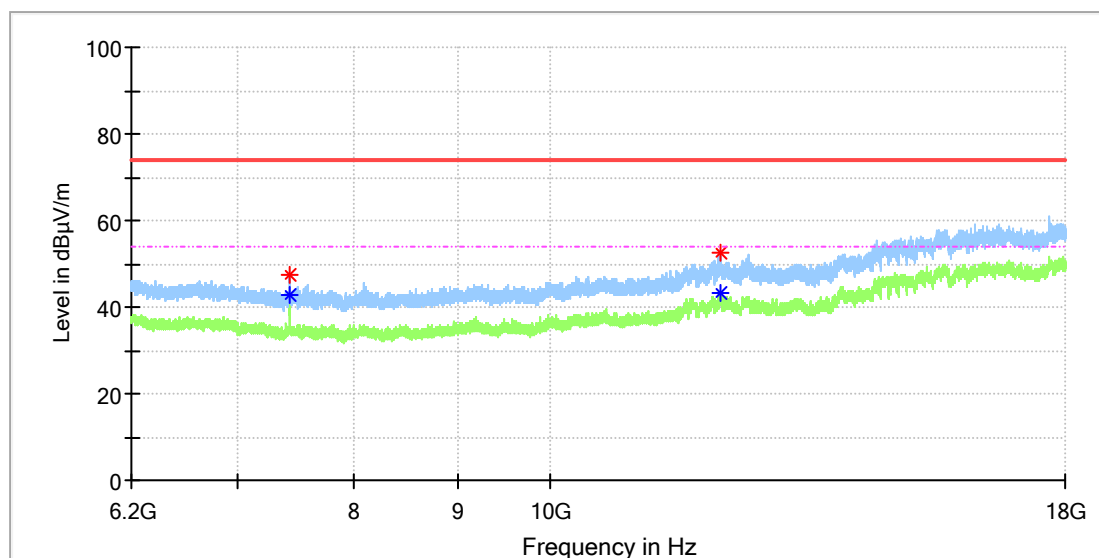


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4955.000000	52.57	---	74.00	21.43	150.0	V	294.0	13.3
4955.000000	---	41.44	54.00	12.56	150.0	V	294.0	13.3

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

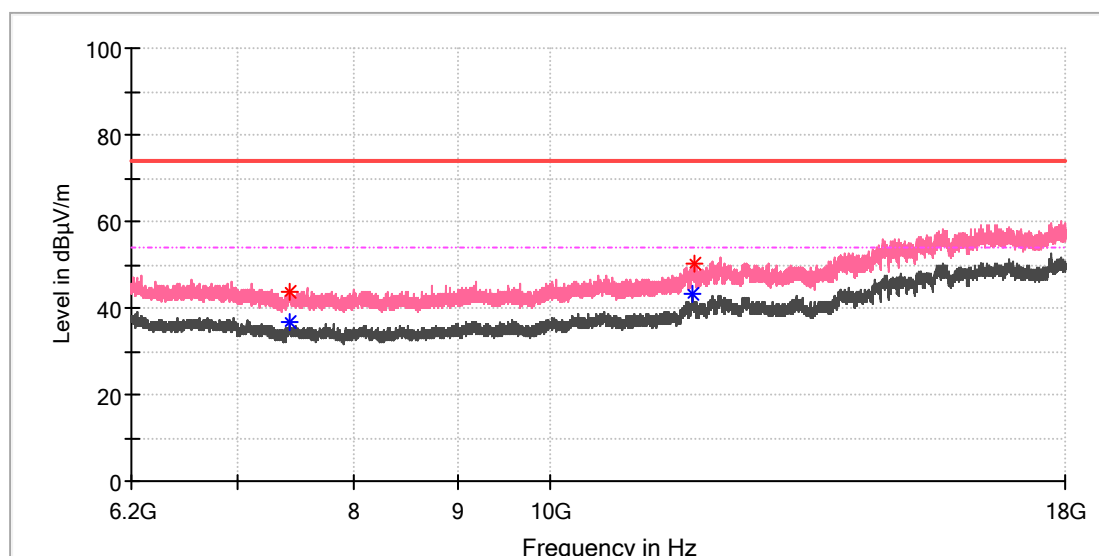


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7432.116667	47.46	---	74.00	26.54	150.0	H	316.0	8.4
7432.116667	---	42.76	54.00	11.24	150.0	H	316.0	8.4
12146.708333	52.49	---	74.00	21.51	150.0	H	226.0	16.6
12152.608333	---	43.28	54.00	10.72	150.0	H	349.0	16.6

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



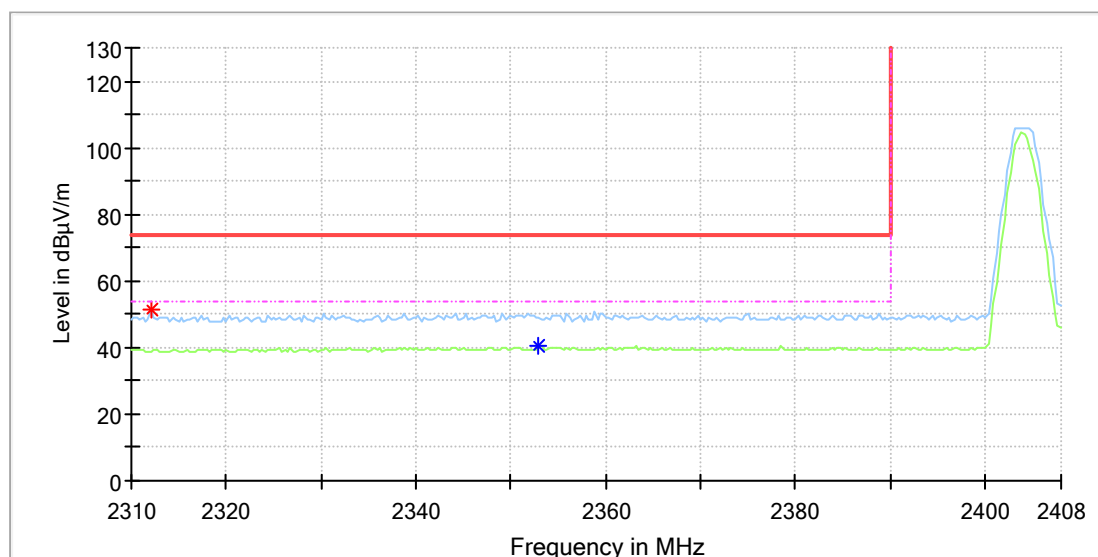
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7432.608333	---	36.56	54.00	17.44	150.0	V	203.0	8.4
7434.083333	43.87	---	74.00	30.13	150.0	V	228.0	8.4
11755.341667	---	43.09	54.00	10.91	150.0	V	80.0	15.5
11803.033333	50.00	---	74.00	24.00	150.0	V	243.0	14.7

Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

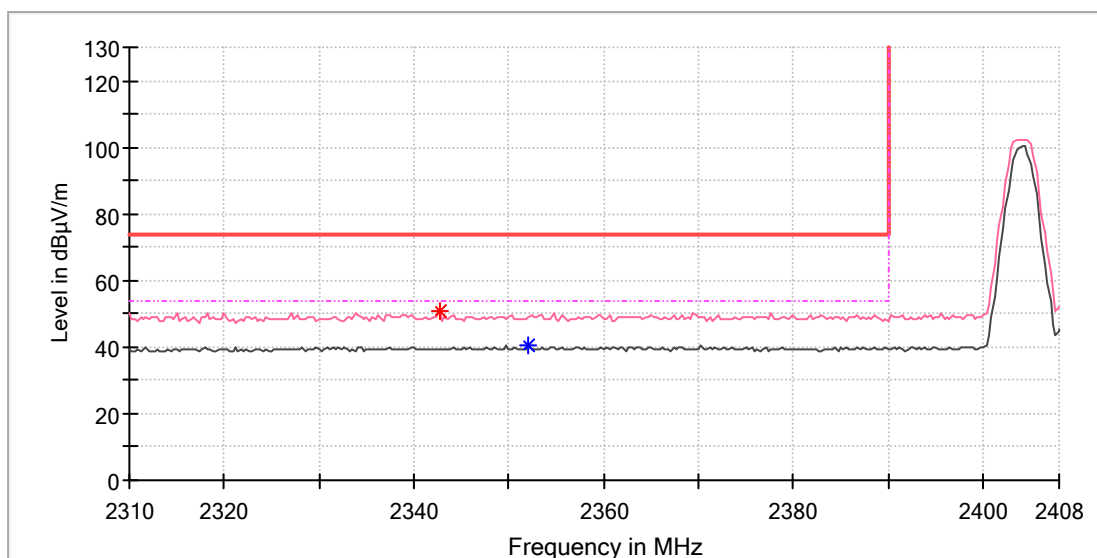


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2312.058824	51.20	---	74.00	22.80	150.0	H	148.0	8.1
2352.941177	---	40.26	54.00	13.74	150.0	H	46.0	8.5

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

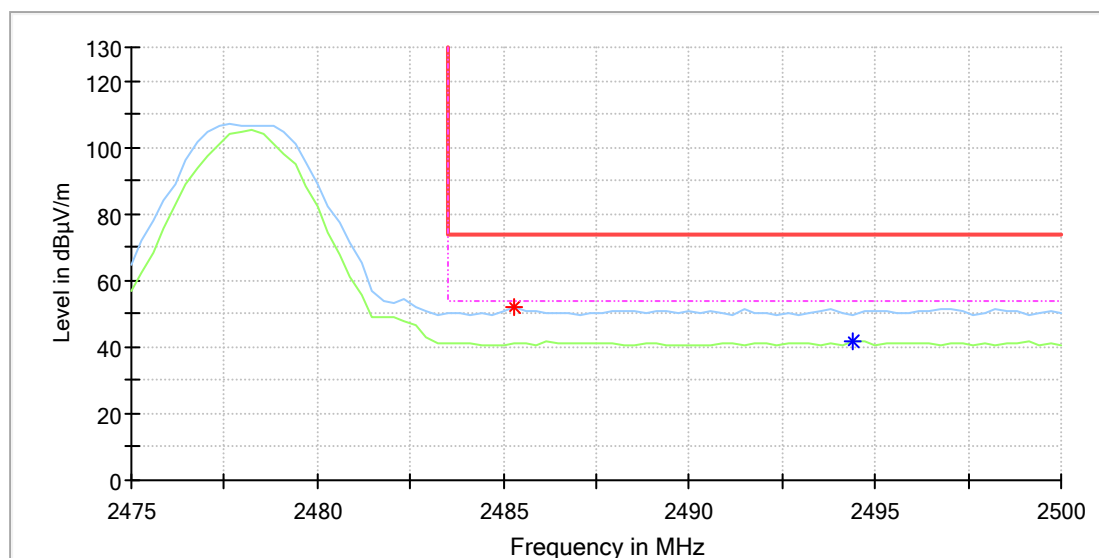


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.647059	50.67	---	74.00	23.33	150.0	V	183.0	8.4
2352.058824	---	40.24	54.00	13.76	150.0	V	324.0	8.5

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

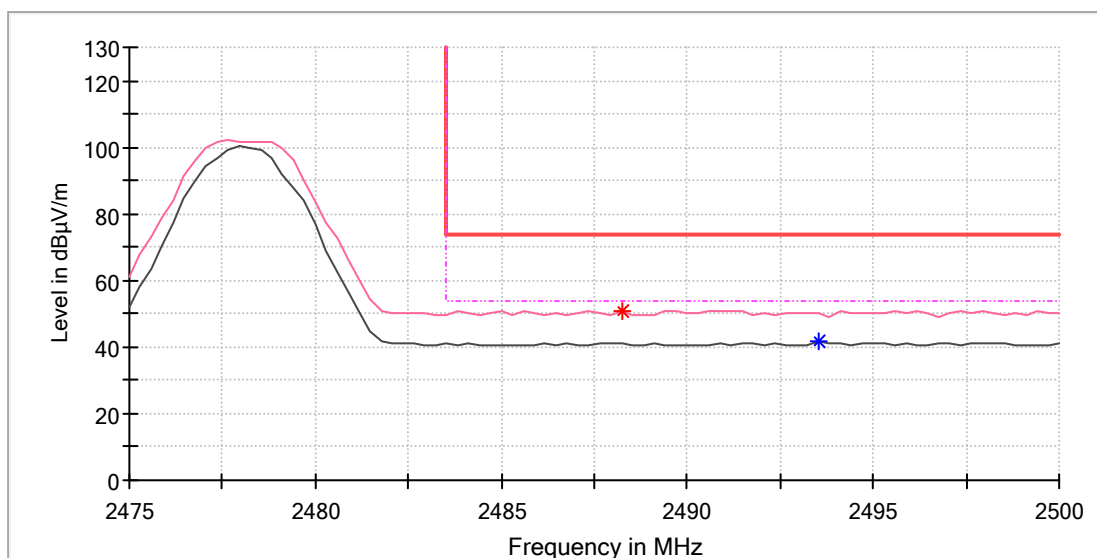


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.294118	51.78	---	74.00	22.22	150.0	H	312.0	9.0
2494.411765	---	41.98	54.00	12.02	150.0	H	302.0	9.0

EUT Information

EUT Name:	Partybox Wireless Mic
Model:	EASYSING MICS TM
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168568982/A004063311-005
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



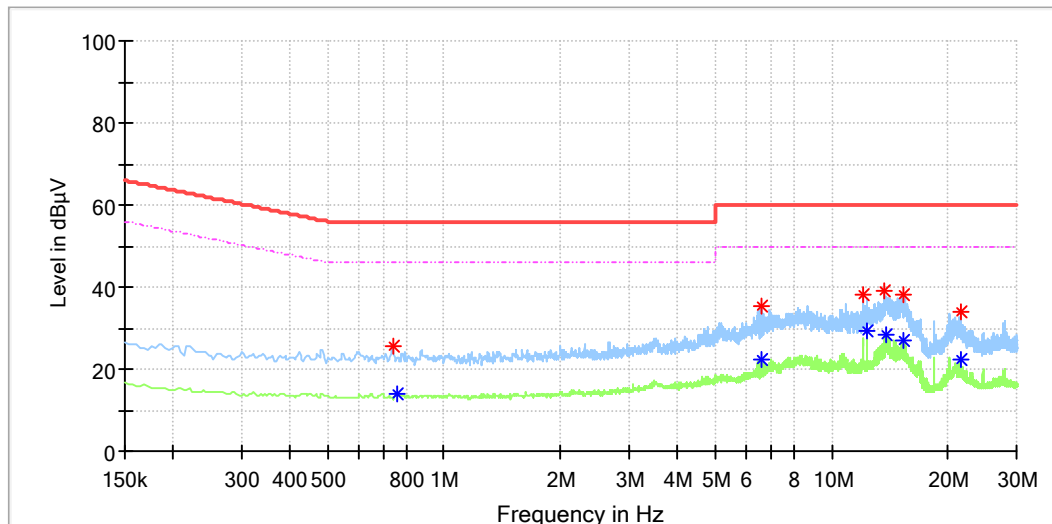
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.235294	51.02	---	74.00	22.98	150.0	V	26.0	9.0
2493.529412	---	41.80	54.00	12.20	150.0	V	306.0	9.0

Appendix B.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Partybox Wireless Mic
Order Number: 168572937
Model: EASYSING MICS TM
Test Mode: 2.4GHz_Mid channel
Test Voltage: AC 120V, 60Hz
Test Standard: FCC part 15
Test By:/Review By: Charlie Zha / Murphy chen
Tem./Hum./Pressure: 24.1°C/52.4%/101kPa
Remark:

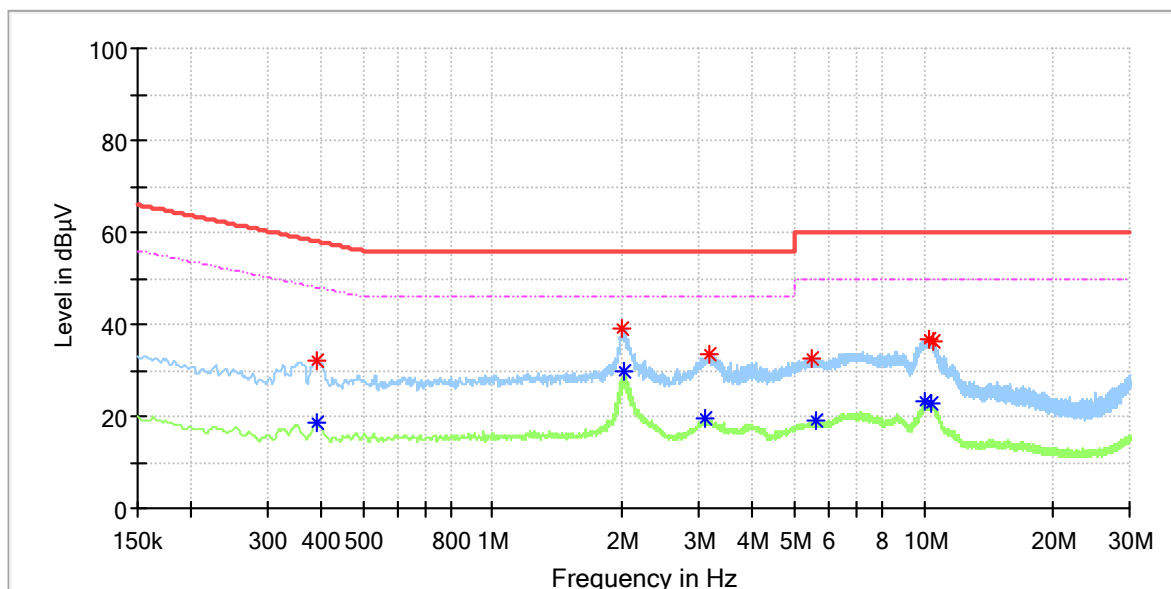


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.736	25.6	---	56.00	30.36	L1	9.7
0.754	---	14.0	46.00	31.99	L1	9.7
6.605	35.6	---	60.00	24.45	L1	9.9
6.605	---	22.5	50.00	27.51	L1	9.9
12.060	38.1	---	60.00	21.86	L1	9.8
12.288	---	29.4	50.00	20.58	L1	9.7
13.728	39.1	---	60.00	20.86	L1	9.6
13.825	---	28.3	50.00	21.70	L1	9.6
15.265	---	27.2	50.00	22.83	L1	9.5
15.310	38.1	---	60.00	21.86	L1	9.5
21.504	34.1	---	60.00	25.92	L1	9.8
21.504	---	22.2	50.00	27.75	L1	9.8

EUT Information

EUT Name: Partybox Wireless Mic
Order Number: 168572937
Model: EASYSING MICS TM
Test Mode: 2.4GHz_Mid channel
Test Voltage: AC 120V, 60Hz
Test Standard: FCC part 15
Test By:/Review By: Charlie Zha / Murphy chen
Tem./Hum./Pressure: 24.1°C/52.4%/101kPa
Remark:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.39	---	18.63	48.09	29.46	N	10.26
0.39	32.03	---	58.09	26.06	N	10.26
2.00	39.25	---	56.00	16.75	N	10.31
2.01	---	29.97	46.00	16.03	N	10.31
3.11	---	19.33	46.00	26.67	N	10.35
3.16	33.54	---	56.00	22.46	N	10.35
5.47	32.62	---	60.00	27.38	N	10.46
5.63	---	18.95	50.00	31.05	N	10.46
10.01	---	23.14	50.00	26.86	N	10.65
10.27	36.79	---	60.00	23.21	N	10.66
10.41	---	22.98	50.00	27.02	N	10.66
10.51	36.42	---	60.00	23.58	N	10.67

Appendix B.9: Test Results of Duty Cycle

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
TX	Ant1	2404	19.00	19.00	1.0000	100.00	0.00	---	---
		2440	19.00	19.00	1.0000	100.00	0.00	---	---
		2478	19.00	19.00	1.0000	100.00	0.00	---	---



