



Prüfbericht-Nr.: <i>Test report no.:</i>	CN2635MY 001	Auftrags-Nr.: <i>Order no.:</i>	48307562	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2026-07-06	
Auftraggeber: <i>Client:</i>	Guangdong World Precision Technology Co., Ltd. No. 6 Wanjiang Section, Gangkou Avenue, Wanjiang Subdistrict, Dongguan City, Guangdong Province, China			
Prüfgegenstand: <i>Test item:</i>	DCRF (Device Charge & Recognition Fixture)			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	310-424-M072-000000			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (NFC)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.225			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-07-16			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004337481-002			
Prüfzeitraum: <i>Testing period:</i>	2026-08-11 - 2026-08-18			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Taiwan Ltd. New Taipei Branch			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	2026-09-04	Ausstellungsdatum: <i>Issue date:</i>	2026-09-04	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Lab Manager	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>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.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>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></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>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 115:2023, 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.</p> <p><i>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 115:2023, 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></p> |

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.225 (a)(b)(c)	Field Strength of Fundamental Emissions	Pass
5.1.3	15.225 (d)	Radiated Spurious Emissions	Pass
5.1.4	15.225 (e)	Frequency Stability	Pass
5.1.5	15.215 (c)	20 dB Bandwidth	Pass
5.1.5	2.1049	99% Occupied Bandwidth	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2026-09-04

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 - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.225
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10-2020

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

No.458-18, 458-19, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491 (TW3567)
ISED Registration No.: 25563 (TW3567)

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a DCRF (Device Charge & Recognition Fixture) working at 13.56 MHz with NFC function. For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	DCRF (Device Charge & Recognition Fixture)
Type Identification	310-424-M072-000000
FCC ID	2BD9P-310424M072

Technical Specification of EUT

Item	EUT information
Operating Frequency	13.56 MHz
Operation Voltage	100-240 Vac
Modulation	ASK
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: The EUT has a serial interface which makes it possible to read data from the NFC reader. The NFC reader is permanently on.

The samples were used as follows:
A004337481-002

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	Radiated Spurious Emissions	Frequency Stability	20 dB Bandwidth	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Y-plane**.
2. "-" means no effect.

Radiated Spurious Emissions

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	13.56	13.56

Frequency Stability

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	13.56	13.56

20 dB Bandwidth

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	13.56	13.56

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Mains Conducted Emission

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	13.56	13.56

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	24.1-29.1 °C	50-53 %	Chuan Chu
Frequency Stability	20.3-20.7 °C	51-66 %	Nick Hsu
20 dB Bandwidth	20.3-20.7 °C	51-66 %	Nick Hsu
Mains Conducted Emission	22.5 °C	61 %	Nick Guan

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

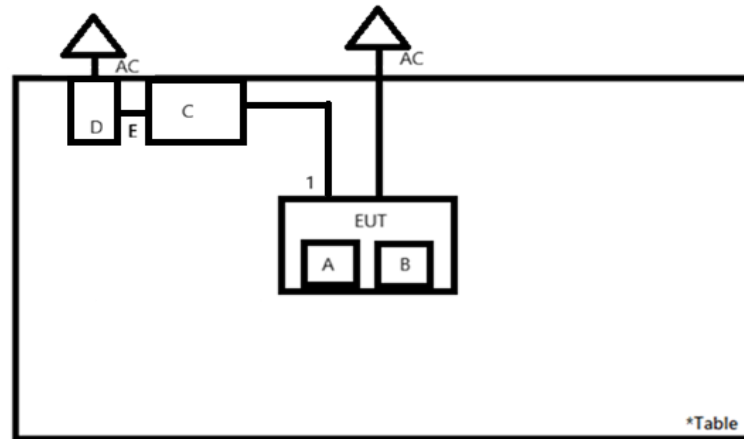
None

Support Unit

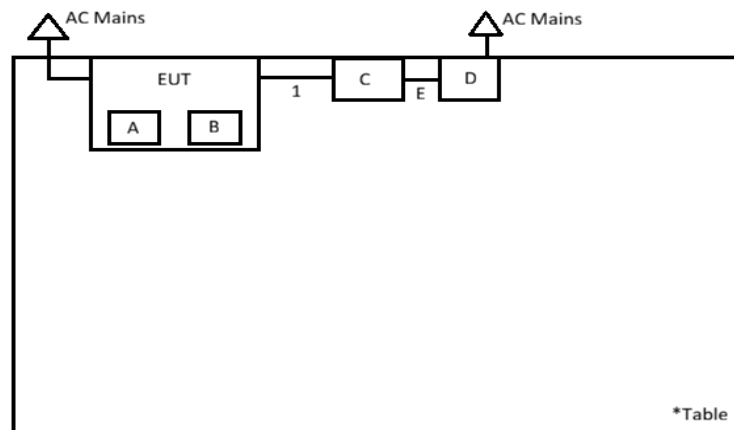
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	I Phone 15	Apple	A3092	N/A	-	-	-	--
B	I Phone 14	Apple	A2884	N/A	-	-	-	--
C	MacBook	Apple	A2159	N/A	-	-	-	--
D	Adapter	Apple	A1718	N/A	-	-	-	--
E	TYPE C Cable	Apple	A2794	N/A	NO	NO	200	--
1	TYPE C Cable	TUV	TUV-01	NA	NO	NO	200	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

The antenna is loop antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo for details.

5.1.2 Field Strength of Fundamental Emissions

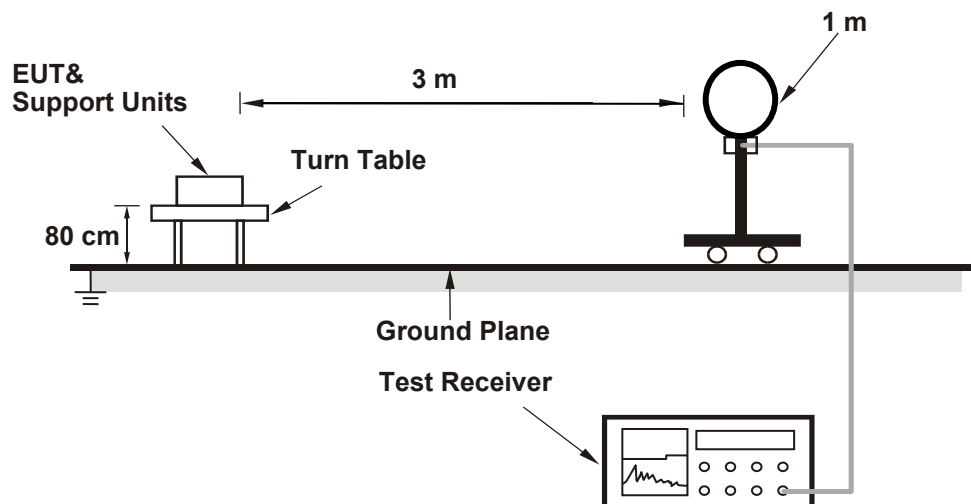
Limit

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

Kind of Test Site

3m Semi-Anechoic Chamber

Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2026/02/04	2027/02/03
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2026/05/11	2027/05/10
LF-AMP	Agilent	8447D	2727A05146	2026/01/15	2027/01/14
RF Cable	EM	RG 214 U/2*11N/7M	24038601	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2026/02/25	2027/02/24
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2026/02/04	2027/02/03
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2025/12/16	2026/12/15
RF Cable	EM	RG 214 U/2*11N/7M	24038601	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2026/02/25	2027/02/24
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. 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.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Limit at 30m = 15848 (uV/m)

******Limit at 3m = $20 \cdot \log(15848) + 40 \log(30\text{m}/3\text{m})$ (dBuV/m)
= 84+40 (dBuV/m)
= 124 (dBuV/m)

Please refer to Appendix A.

5.1.3 Radiated Spurious Emissions

Limit

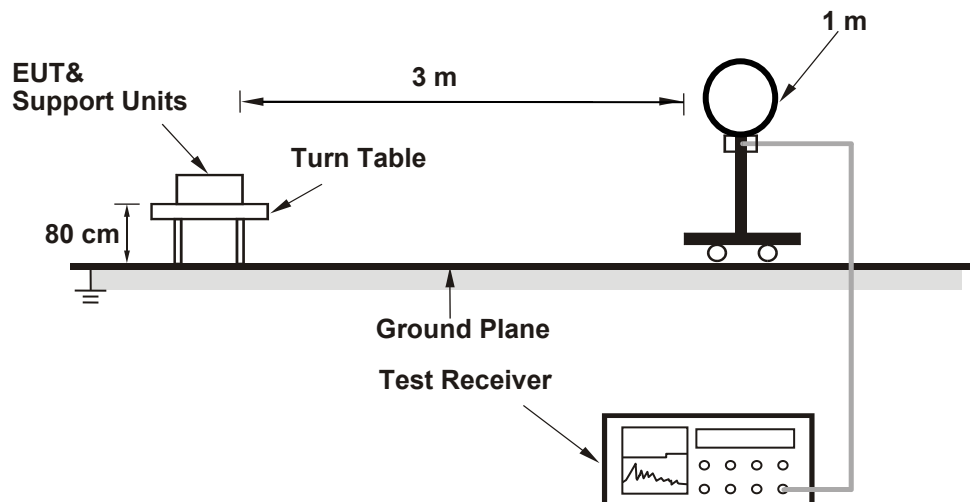
The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209 as below table:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

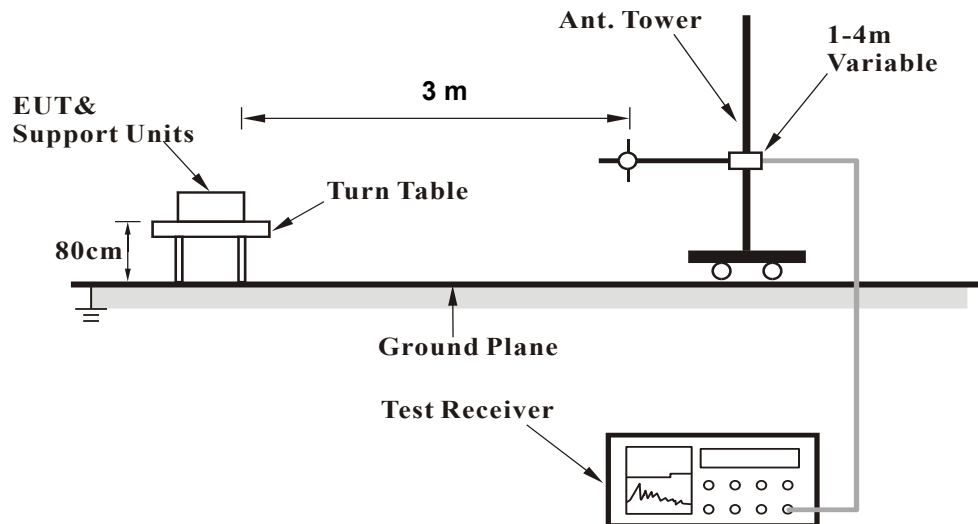
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Please refer to 5.1.2 Instruments

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. 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.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters 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 1 meter to 4 meters 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.
3. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
4. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

Note: The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated at least 20 dB below the permissible value to be reported.

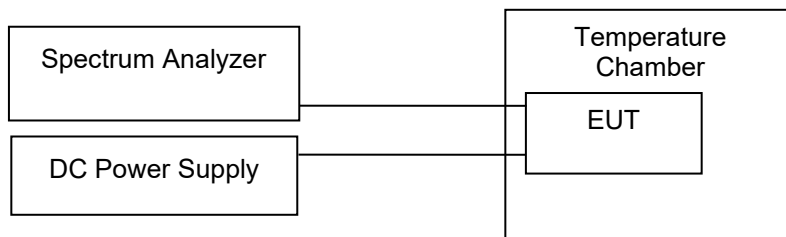
5.1.4 Frequency Stability

Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01 % of the operating frequency over a temperature variation of -20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20 degrees C.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2026/05/13	2027/05/12	2026/08/19	2026/08/19

Test Procedures

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turned the EUT on and coupled its output to a spectrum analyzer.
- Turned the EUT off and set the chamber to the highest temperature specified.
- Allowed sufficient time (approximately 30 min) for the temperature of the chamber to stabilize then turned the EUT on and measured the operating frequency after 2, 5, and 10 minutes.
- Repeated step b and c with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85 % to 115 % and the frequency record.

Frequency (MHz)		13.56							
Condition		Test Time				Frequency Error (ppm)			
Extreme	Modulation Mode	0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min
T _{20°C} V _{max}	CW	13.559797	13.559797	13.559797	13.559797	-14.97	-14.97	-14.97	-14.97
T _{20°C} V _{min}	CW	13.559797	13.559797	13.559797	13.559797	-14.97	-14.97	-14.97	-14.97
T _{50°C} V _{nom}	CW	13.559768	13.559768	13.559768	13.559768	-17.11	-17.11	-17.11	-17.11
T _{40°C} V _{nom}	CW	13.559797	13.559797	13.559768	13.559768	-14.97	-14.97	-17.11	-17.11
T _{30°C} V _{nom}	CW	13.559768	13.559797	13.559797	13.559797	-17.11	-14.97	-14.97	-14.97
T _{20°C} V _{nom}	CW	13.559826	13.559826	13.559797	13.559797	-12.83	-12.83	-14.97	-14.97
T _{10°C} V _{nom}	CW	13.559826	13.559855	13.559855	13.559855	-12.83	-10.69	-10.69	-10.69
T _{0°C} V _{nom}	CW	13.559855	13.559884	13.559884	13.559884	-10.69	-8.55	-8.55	-8.55
T _{-10°C} V _{nom}	CW	13.559884	13.559884	13.559884	13.559884	-8.55	-8.55	-8.55	-8.55
T _{-20°C} V _{nom}	CW	13.559855	13.559855	13.559855	13.559855	-10.69	-10.69	-10.69	-10.69
Limit (ppm)		-				100			
Result		Pass							

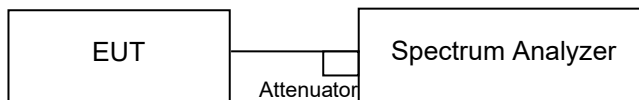
5.1.5 20 dB Bandwidth and 99% Occupied Bandwidth

Limit

The 20 dB bandwidth shall be specified in operating frequency band.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2026/05/13	2027/05/12	2026/08/19	2026/08/19

Test Procedure

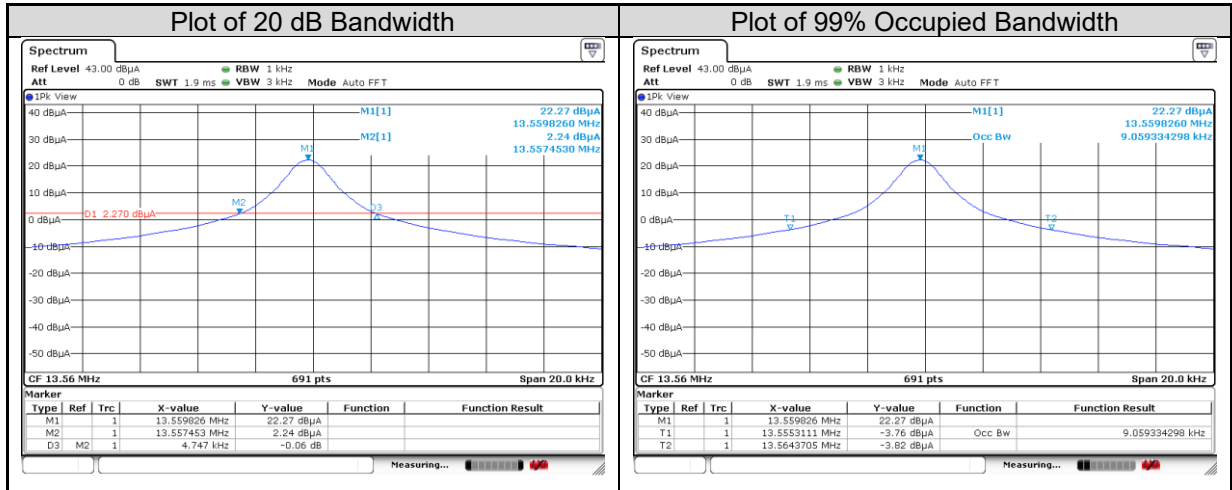
<20 dB Bandwidth>

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1 kHz RBW and 3 kHz VBW. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

<99% Occupied Bandwidth>

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Results



5.2 Mains Emission

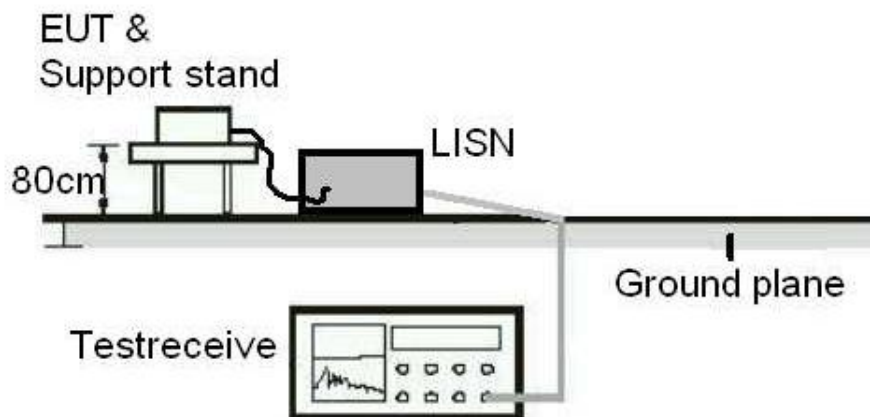
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emissions as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	SCHWARZBECK	NSLK 8127	8127-00976	2026/01/07	2027/01/06
EMI Test Receiver	R&S	ESCI	101094	2025/11/19	2026/11/18
Coaxial Cable	HUBER+SUHNER	RG400U	RG400U-001	2026/05/15	2027/05/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Fundamental Emissions, 13.553MHz ~ 13.567MHz

Open

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Level (dBuV/m) Date: 2026-08-11

Frequency (MHz)

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	13.50	32.61	11.03	21.58	90.50	-57.89	100	37	Peak	Open		
2	13.56	43.92	22.33	21.59	124.00	-80.08	100	292	Peak	Open		
3	13.57	33.55	11.96	21.59	124.00	-90.45	100	90	Peak	Open		

Close

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Level (dBuV/m) Date: 2026-08-11

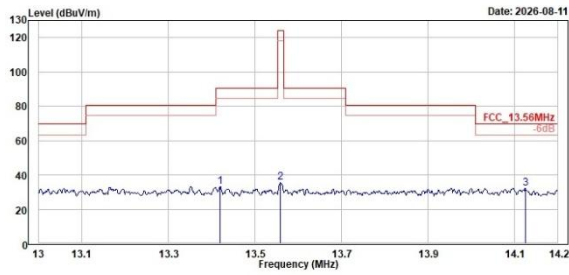
Frequency (MHz)

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	13.50	37.51	15.93	21.58	90.50	-52.99	100	130	Peak	Close		
2	13.56	43.87	22.28	21.59	124.00	-80.13	100	37	Peak	Close		
3	13.57	36.09	14.50	21.59	124.00	-87.91	100	327	Peak	Close		

Ground



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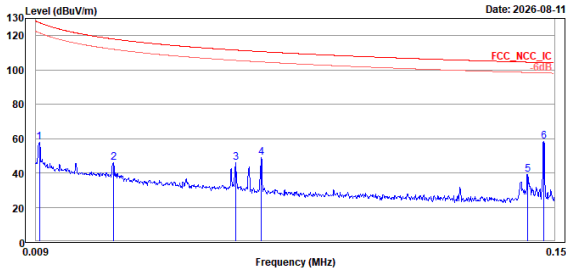
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	13.42	33.17	11.60	21.57	90.50	-57.33		100	360	Peak	Ground	
2	13.56	35.39	13.80	21.59	124.00	-88.61		100	204	Peak	Ground	
3	14.13	32.36	10.70	21.66	69.50	-37.14		100	16	Peak	Ground	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

9kHz~150kHz(Open)



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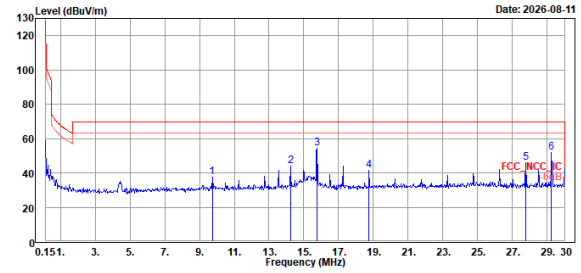


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.01	57.91	40.61	17.30	127.60	-69.69	100	187	Peak	Open		
2	0.03	45.77	26.57	19.20	118.00	-72.23	100	12	Peak	Open		
3	0.06	46.12	27.50	18.62	111.57	-65.45	100	4	Peak	Open		
4	0.07	49.18	30.97	18.21	110.65	-61.47	100	281	Peak	Open		
5	0.14	39.16	20.73	18.43	104.51	-65.35	100	161	Peak	Open		
6	0.15	58.28	39.82	18.46	104.25	-45.97	100	0	Peak	Open		

150kHz~30MHz(Open)



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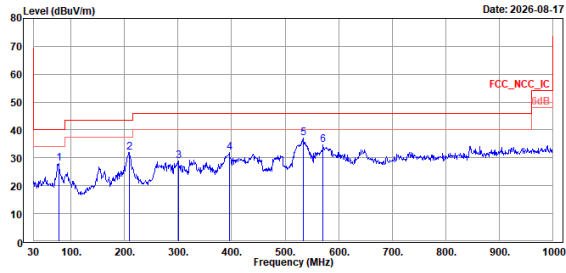
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	9.73	37.81	16.66	21.15	69.50	-31.69	100	17	Peak	Open		
2	14.24	44.14	22.46	21.68	69.50	-25.36	100	92	Peak	Open		
3	15.76	54.32	32.39	21.93	69.50	-15.18	100	58	Peak	Open		
4	18.75	41.45	19.31	22.14	69.50	-28.05	100	113	Peak	Open		
5	27.76	46.09	23.44	22.65	69.50	-23.41	100	124	Peak	Open		
6	29.25	51.05	29.08	22.77	69.50	-17.65	100	124	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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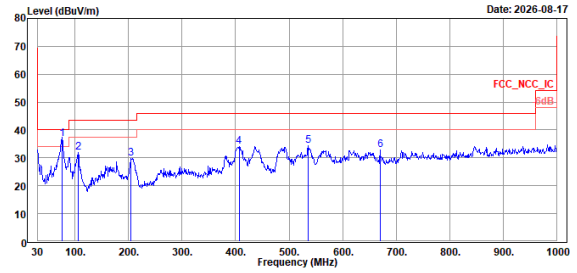


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	76.56	28.10	38.83	-10.73	49.00	-11.90	200	82	QP		Horizontal	
2	288.48	32.05	41.24	-9.19	43.50	-11.45	200	267	QP		Horizontal	
3	300.63	28.96	34.80	-5.84	46.00	-17.04	100	256	QP		Horizontal	
4	395.69	31.85	35.62	-3.77	46.00	-14.15	100	272	QP		Horizontal	
5	533.43	36.98	38.13	-1.15	46.00	-9.02	100	228	QP		Horizontal	
6	571.26	34.62	35.30	-0.68	46.00	-11.38	100	264	QP		Horizontal	

Vertical



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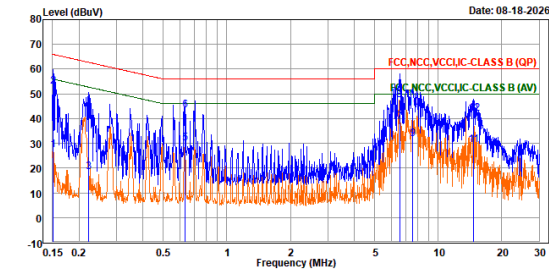
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	75.59	36.82	47.30	-10.48	49.00	-3.18	100	183	QP		Vertical	
2	105.66	31.84	42.66	-10.82	43.50	-11.66	100	232	QP		Vertical	
3	204.60	29.71	38.74	-9.03	43.50	-13.79	200	354	QP		Vertical	
4	406.36	34.08	37.65	-3.57	46.00	-11.92	100	244	QP		Vertical	
5	536.34	34.49	35.57	-1.08	46.00	-11.51	200	342	QP		Vertical	
6	670.20	32.82	31.77	1.05	46.00	-13.18	100	337	QP		Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Line



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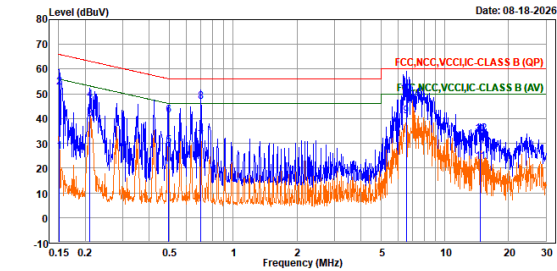
Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	27.46	17.53	9.93	55.96	-28.50	Average	line1	
2	0.15	53.12	43.19	9.93	65.96	-12.84	QP	line1	
3	0.22	18.52	8.59	9.93	52.77	-34.25	Average	line1	
4	0.22	43.53	33.60	9.93	62.77	-19.24	QP	line1	
5	0.63	30.03	20.03	10.00	46.00	-15.97	Average	line1	
6	0.63	43.52	33.52	10.00	56.00	-12.48	QP	line1	
7	6.56	38.75	28.52	10.23	50.00	-11.25	Average	line1	
8	6.56	47.63	37.40	10.23	60.00	-12.37	QP	line1	
9	7.58	31.58	21.32	10.26	50.00	-18.42	Average	line1	
10	7.58	44.53	34.27	10.26	60.00	-15.47	QP	line1	
11	14.64	29.21	18.76	10.45	50.00	-20.79	Average	line1	
12	14.64	41.92	31.47	10.45	60.00	-18.08	QP	line1	

Neutral



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	26.62	16.69	9.93	55.96	-29.34	Average	neutral	
2	0.15	52.48	42.55	9.93	65.96	-13.48	QP	neutral	
3	0.21	40.12	30.20	9.92	53.18	-13.06	Average	neutral	
4	0.21	47.57	37.65	9.92	63.18	-15.61	QP	neutral	
5	0.49	29.14	19.20	9.94	46.11	-16.97	Average	neutral	
6	0.49	41.41	31.47	9.94	56.11	-14.70	QP	neutral	
7	0.70	31.09	21.13	9.96	46.00	-14.91	Average	neutral	
8	0.70	46.84	36.88	9.96	56.00	-9.16	QP	neutral	
9	6.56	40.96	30.81	10.15	50.00	-9.04	Average	neutral	
10	6.56	49.91	39.76	10.15	60.00	-10.09	QP	neutral	
11	14.71	22.57	12.19	10.38	50.00	-27.43	Average	neutral	
12	14.71	33.81	23.43	10.38	60.00	-26.19	QP	neutral	