

RF TEST REPORT

Applicant ID TECH

FCC ID WQJ-VP7225

Product VP7225

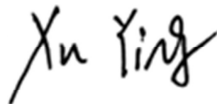
Brand ID TECH

Model ID72-808HF; ID72-808HFD; ID72-800HF;
ID72-800HFD; ID72-008HF; ID72-008HFD;
ID72-000HF; ID72-000HFD

Report No. EFTA26010166-IE-06-R2V3

Issue Date June 1, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2025)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	March 24, 2026
Rev.1	Updated information and description.	May 9, 2026
Rev.2	Updated information and description.	May 18, 2026
Rev.3	Updated information and description.	June 1, 2026
Note: This revised report (Report No.: EFTA26010166-IE-06-R2V3) supersedes and replaces the previously issued report (Report No.: EFTA26010166-IE-06-R2V2). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	20 dB Bandwidth	2.1049	PASS
2	Frequency Stability Tolerance	15.225(e)	PASS
3	Radiated Emissions	15.225 (a) (b) (c) (d) and 15.209	PASS
4	Conducted Emissions	15.207	PASS
Date of Testing: (Original) January 17, 2023 ~ March 4, 2023 (Variant) May 7, 2026 ~ May 8, 2026 Date of Sample Received: (Original) January 16, 2023 (Variant) January 26, 2026 Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

VP7225 (Report No.: EFTA26010166-IE-06-R2V3) is a variant model of VP7200 (Report No.: R2301A0064-R2V1).

The difference between VP7225 and VP7200 are show in the table below:

	Original	Variant
Product	VP7200	VP7225
Model	ID72-808; ID72-808D; ID72-800; ID72-800D; ID72-008; ID72-008D; ID72-000; ID72-000D	ID72-808HF; ID72-808HFD; ID72-800HF; ID72-800HFD; ID72-008HF; ID72-008HFD; ID72-000HF; ID72-000HFD
FCC ID	WQJ-VP7200	WQJ-VP7225
LCD changes: Add LCD outside of VP7200.		
New plastic: Front/back cover outside of VP7200.		

Tested Cases refer to the following table:

Test Case	Original	Variant
20 dB Bandwidth	Pass	Only tested with worst case of Original
Frequency Stability Tolerance	Pass	Only tested with worst case of Original
Radiated Emissions	Pass	Only tested with worst case of Original
Conducted Emissions	Pass	Only tested with worst case of Original

The detailed product change description please refers to the *Difference Declaration Letter*.

This report is also used for standard upgrade.

According to customer requirements the detailed standard upgrade please refers to following table:

Old Standard(s)	New Standard(s)
ANSI C63.10-2013	ANSI C63.10-2020+Cor.1-2023

After technical evaluation, new standard conforms to the technical assessment of the original report. So the standard upgrade does not require to add any test.

1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
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Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	ID TECH
Applicant address	10721 Walker Street, Cypress, California 90630, United States
Manufacturer	ID TECH TAIWAN
Manufacturer address	No. 16, Lane 22, GaoQing Rd., YanMei Dist., TaoYuan City 326, Taiwan

2.2. General Information

EUT Description	
Model	ID72-808HF; ID72-808HFD; ID72-800HF; ID72-800HFD; ID72-008HF; ID72-008HFD; ID72-000HF; ID72-000HFD
SN	(Original) 252T027593
Lab internal SN	(Variant) 260115-36-002
Hardware Version	Rev.A
Software Version	v1.00
Power Supply	External power supply
Antenna Type	Internal Antenna
Test Mode	NFC
Modulation Type	ASK
Operating Frequency Range(s)	13.56MHz
Rated Power Supply Voltage	5.0 V
Operating Voltage	Minimum: 4.75 V Maximum: 5.25 V
Operating Temperature	Lowest: -35 °C Highest: +70 °C
Testing Temperature	Lowest: -35 °C Highest: +70 °C
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Model No:	camera	Ethernet	Others
ID72-808HF; ID72-808HFD (This two models just have difference key)	YES	YES	All the same
ID72-008HF; ID72-008HFD (This two models just have difference key)	NO	YES	
ID72-800HF; ID72-800HFD (This two models just have difference key)	YES	NO	
ID72-000HF; ID72-000HFD (This two models just have difference key)	NO	NO	
The key is a software key which is related to the transaction. The Ethernet has no related components on the PCBA, it is turned on/off by software.			

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2025)

ANSI C63.10-2020+Cor.1-2023

Reference standard:

FCC CFR47 Part 2 (2025)

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

5. Test Case

5.1. 20dB Bandwidth

Ambient Condition

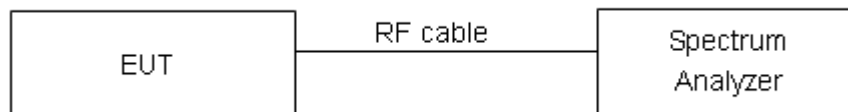
Temperature	Relative humidity
20°C ~25°C	45%~50%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 10 kHz; VBW is set to 3 times the RBW on spectrum analyzer.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results

Refer to the section 6.1 of this report for test data.

5.2. Frequency Stability

Ambient Condition

Temperature	Relative humidity
20°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -20°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -20°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

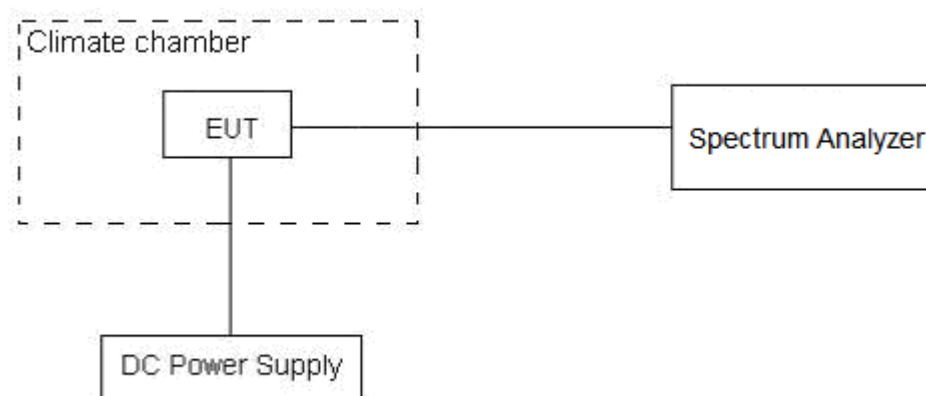
2. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 4.75 V and 5.25 V, with a nominal voltage of 5.0V.

Test Setup



Limits

Rule Part 15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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. For battery operated equipment, the equipment tests shall be performed using a new battery.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01\text{ppm}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3. Radiates Emission

Ambient Condition

Temperature	Relative humidity
20°C ~25°C	45%~50%

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Out-of-band

Below 30MHz

RBW=9KHz, VBW=30KHz, detector=peak;

Above 30MHz,

RBW=100KHz, VBW=300KHz, Detector=peak

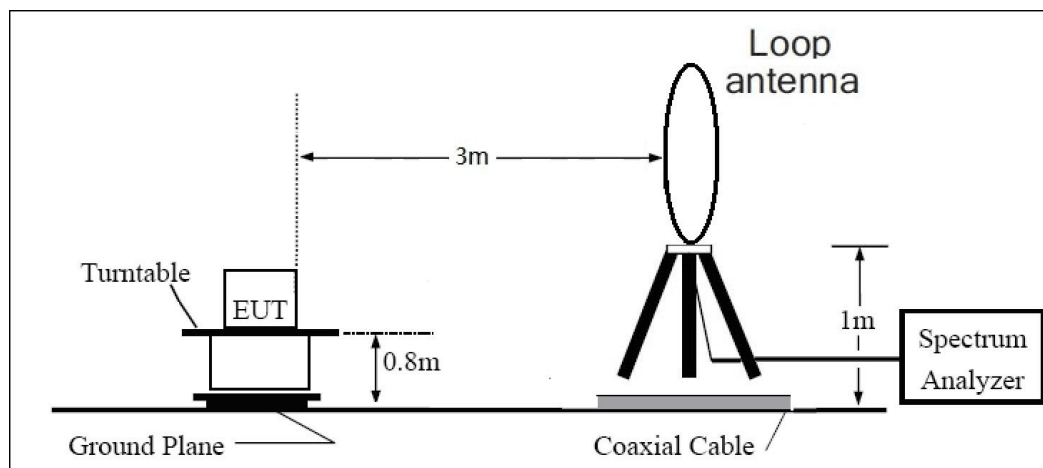
In-band

RBW=9KHz, VBW=30KHz, detector=peak;

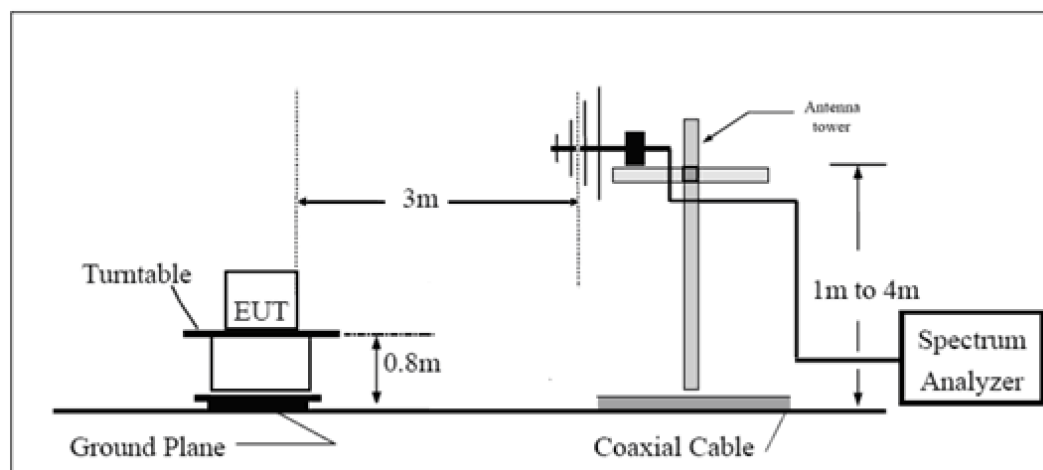
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the other antennas are vertical and horizontal.

Test Setup

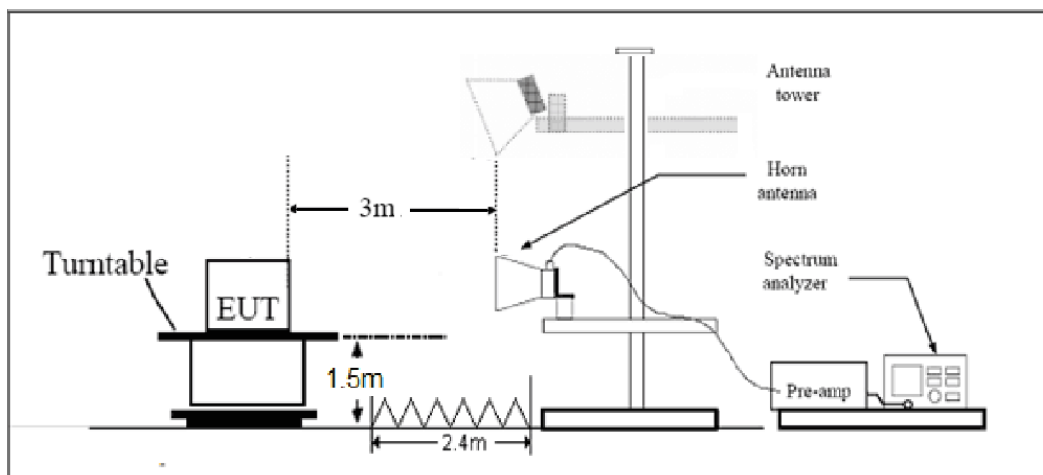
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Clause 15.225(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.

Clause 15.225(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.

Clause 15.225(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.

Clause 15.225(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.

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency of emission (MHz)	Field strength($\mu\text{V/m}$)	Field strength(dB $\mu\text{V/m}$)
0.009–0.490	2400/F(kHz)	128.519dB $\mu\text{V/m}$ -93.8ddB $\mu\text{V/m}$
0.490–1.705	24000/F(kHz)	73.8dB dB $\mu\text{V/m}$ -62.969dB $\mu\text{V/m}$
1.705–30.0	30	69.5 dB $\mu\text{V/m}$
30-88	100	40 dB $\mu\text{V/m}$
88-216	150	43.5 dB $\mu\text{V/m}$
216-960	200	46 dB $\mu\text{V/m}$
Above960	500	54 dB $\mu\text{V/m}$

When using other measurement distance, according to the standard C63.10, If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the data was extrapolated to the specified measurement distance of 30m using extrapolation factor as specified in §6.4.4.2. Extrapolation Factor = $40\log(d \text{ near filed}/ d \text{ measure}) + 20\log(d \text{ limit} / d \text{ near filed})$

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

§15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.02 dB
200MHz-1GHz	3.28 dB
Above 1GHz	3.70 dB

Test Results

Refer to the section 6.3 of this report for test data.

5.4. Conducted Emission

Ambient Condition

Temperature	Relative humidity
20°C ~25°C	45%~50%

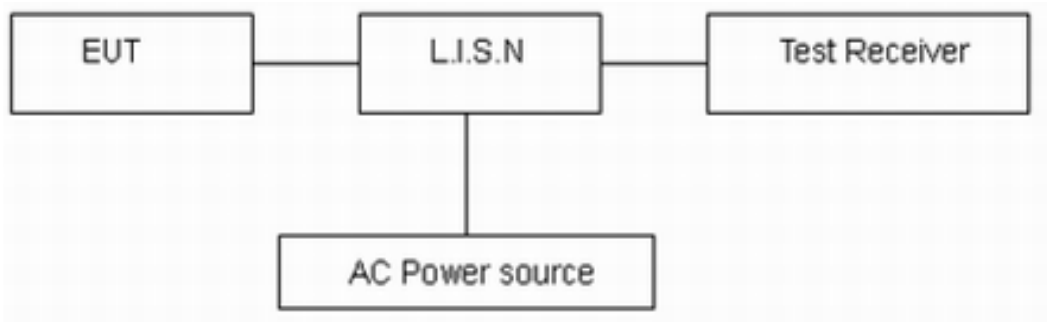
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency (MHz)	Conducted Limits(dB μ V)	
	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.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results

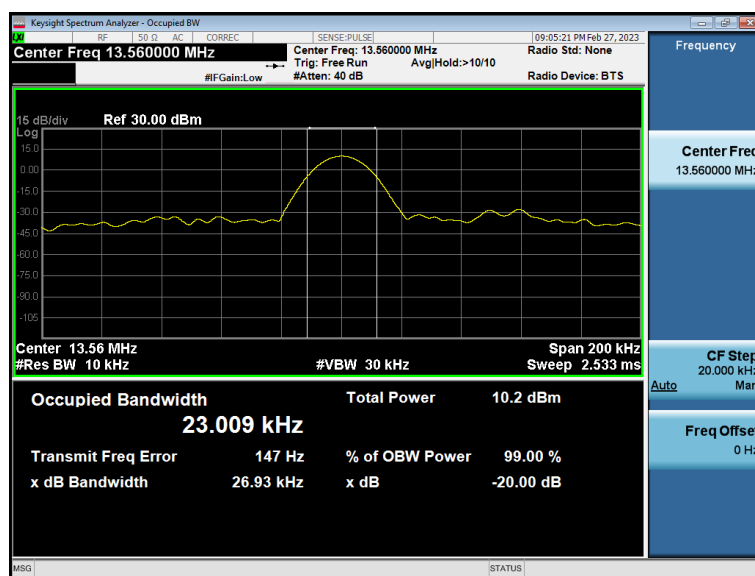
Refer to the section 6.4 of this report for test data.

6. Test Results

6.1. 20dB Bandwidth

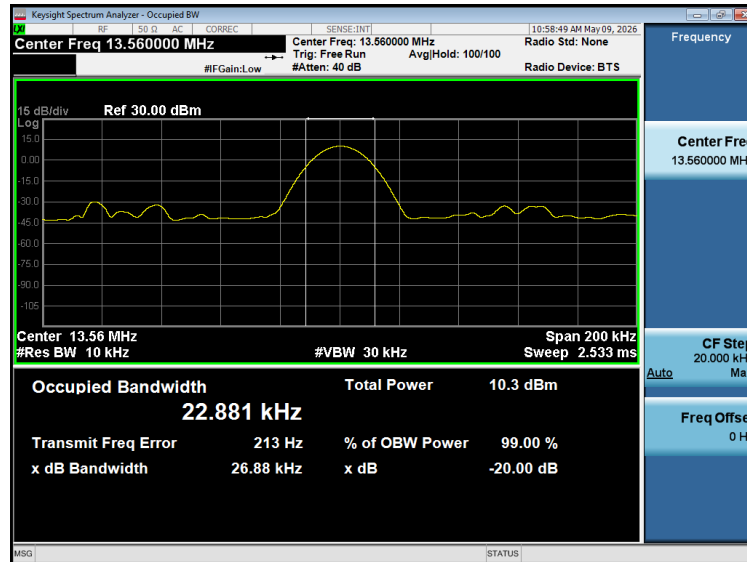
(Original)

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	23.009	26.93	PASS



(Variant)

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.881	26.88	PASS



6.2. Frequency Stability

(Original)

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/5 V	13.559352	13.559338	13.559348	13.559337	0.000648	0.000662	0.000652	0.000663
-10°C/5 V	13.559350	13.559333	13.559347	13.559329	0.000650	0.000667	0.000653	0.000671
0°C/5 V	13.559349	13.559327	13.559344	13.559319	0.000651	0.000673	0.000656	0.000681
10°C/5 V	13.559345	13.559322	13.559338	13.559316	0.000655	0.000678	0.000662	0.000684
20°C/5 V	13.559339	13.559317	13.559337	13.559309	0.000661	0.000683	0.000663	0.000691
30°C/5 V	13.559332	13.559308	13.559327	13.559299	0.000668	0.000692	0.000673	0.000701
40°C/5 V	13.559325	13.559302	13.559322	13.559296	0.000675	0.000698	0.000678	0.000704
50°C/5 V	13.559317	13.559297	13.559320	13.559293	0.000683	0.000703	0.000680	0.000707
20°C/4.75 V	13.559310	13.559291	13.559315	13.559288	0.000690	0.000709	0.000685	0.000712
20°C/5.25 V	13.559308	13.559283	13.559312	13.559283	0.000692	0.000717	0.000688	0.000717

Test status	Tolerance (%)				Limit (%)	Conclusion
	1min	2min	5min	10min		
-20°C/5 V	0.004779	0.004882	0.004808	0.004889	0.01	PASS
-10°C/5 V	0.004794	0.004919	0.004816	0.004948	0.01	PASS
0°C/5 V	0.004801	0.004963	0.004838	0.005022	0.01	PASS
10°C/5 V	0.004830	0.005000	0.004882	0.005044	0.01	PASS
20°C/5 V	0.004875	0.005037	0.004889	0.005096	0.01	PASS
30°C/5 V	0.004926	0.005103	0.004963	0.005170	0.01	PASS
40°C/5 V	0.004978	0.005147	0.005000	0.005192	0.01	PASS
50°C/5 V	0.005037	0.005184	0.005015	0.005214	0.01	PASS
20°C/4.75 V	0.005088	0.005229	0.005052	0.005251	0.01	PASS
20°C/5.25 V	0.005103	0.005288	0.005074	0.005288	0.01	PASS

(Variant)

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/5 V	13.559335	13.559337	13.559346	13.559336	0.000665	0.000663	0.000654	0.000664
-10°C/5 V	13.559334	13.559330	13.559340	13.559326	0.000666	0.000670	0.000660	0.000674
0°C/5 V	13.559327	13.559324	13.559334	13.559317	0.000673	0.000676	0.000666	0.000683
10°C/5 V	13.559325	13.559319	13.559328	13.559311	0.000675	0.000681	0.000672	0.000689
20°C/5 V	13.559316	13.559319	13.559322	13.559305	0.000684	0.000681	0.000678	0.000695
30°C/5 V	13.559313	13.559311	13.559320	13.559304	0.000687	0.000689	0.000680	0.000696
40°C/5 V	13.559309	13.559307	13.559311	13.559297	0.000691	0.000693	0.000689	0.000703
50°C/5 V	13.559304	13.559303	13.559307	13.559297	0.000696	0.000697	0.000693	0.000703
20°C/4.75 V	13.559294	13.559297	13.559306	13.559288	0.000706	0.000703	0.000694	0.000712
20°C/5.25 V	13.559290	13.559287	13.559299	13.559286	0.000710	0.000713	0.000701	0.000714

Test status	Tolerance (%)				Limit (%)	Conclusion
	1min	2min	5min	10min		
-20°C/5 V	0.004904	0.004889	0.004823	0.004897	0.01	PASS
-10°C/5 V	0.004912	0.004941	0.004867	0.004971	0.01	PASS
0°C/5 V	0.004963	0.004985	0.004912	0.005037	0.01	PASS
10°C/5 V	0.004978	0.005022	0.004956	0.005081	0.01	PASS
20°C/5 V	0.005044	0.005022	0.005000	0.005125	0.01	PASS
30°C/5 V	0.005066	0.005081	0.005015	0.005133	0.01	PASS
40°C/5 V	0.005096	0.005111	0.005081	0.005184	0.01	PASS
50°C/5 V	0.005133	0.005140	0.005111	0.005184	0.01	PASS
20°C/4.75 V	0.005206	0.005184	0.005118	0.005251	0.01	PASS
20°C/5.25 V	0.005236	0.005258	0.005170	0.005265	0.01	PASS

6.3. Radiates Emission

The detailed test data see EFTA26010166-IE-06-R2-ANNEX A Test Result.

6.4. Conducted Emission

The detailed test data see EFTA26010166-IE-06-R2-ANNEX A Test Result.

7. Main Test Instruments

Date of Testing: (Original) January 17, 2023 ~ March 4, 2023

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2022-05-14	2023-05-13
DC Power Supply	UNI-T	UTP1306S+	2205D0517232	2022-12-10	2023-12-09
TEMPERATURE CHAMBER	ESPEC	SU-242	93000506	2022-12-10	2023-12-09
Radiated Emission					
EMI Test Receiver	R&S	ESR	102389	2022-05-25	2023-05-24
EMI Test Receiver	R&S	ESCI3	100948	2022-05-25	2023-05-24
Signal Analyzer	R&S	FSV40	101298	2022-05-14	2023-05-13
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2020-05-05	2023-05-04
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2022-12-13	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2022-05-25	2023-05-24
Software	R&S	EMC32	10.35.10	/	/

Date of Testing: (Variant) May 7, 2026 ~ May 8, 2026

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2026-04-21	2027-04-20
DC Power Supply	UNI-T	UTP1306S+	2205D0517426	2025-11-24	2026-11-25
Climate Chamber	ESPEC	SU-242	93000506	2025-11-24	2026-11-25
EMI Test Receiver	R&S	ESCI3	100948	2026-04-20	2027-04-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2026-04-12	2029-04-11
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	101171	2025-11-24	2026-11-23
EMI Test Receiver	R&S	ESR	101667	2026-04-20	2027-04-19
Software	R&S	ELEKTRA	5.02.1	/	/

8. The EUT Appearance

Refer to *EUT Appearance*.

9. Test Setup Photos

Refer to *Part15C Test Setup*.

10. Product Change Description

The Product Change Description are submitted separately.