

RF TEST REPORT

Applicant Honor Device Co., Ltd.

FCC ID 2AYGCMTN-NX3

Product Smart Phone

Brand HONOR

Model MTN-NX3

Report No. EFTA25070272-IE-01-R21

Issue Date September 8, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. 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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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: July 24, 2025 ~ September 5, 2025

Date of Sample Received: July 22, 2025

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.

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. This report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

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 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.
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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

2.2. General Information

EUT Description					
Model	MTN-NX3				
SN	Radiated	ASNU015613000170			
Hardware Version	HN2MTNM				
Software Version	9.0.0.102(C900E100R1P1)				
Power Supply	Battery / AC; DC adapter				
Antenna Type	Loop Antenna				
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)				
Test Mode	NFC-A	NFC-B	NFC-F		
Modulation Type	ASK	ASK	ASK		
Operating Frequency Range(s)	13.56MHz				
Rated Power Supply Voltage	3.84 VDC				
Operating Voltage	Minimum: 3.15VDC Maximum: 4.52VDC				
Operating Temperature	Lowest: 0°C Highest: +35°C				
Testing Temperature	Lowest: -20 °C Highest: +50 °C				
EUT Accessory					
Accessory	Model	Manufacture	No.		
Adapter	HN-200330B00	Honor Device Co., Ltd. (Huntkey)	1		
	HN-200330U00		2		
	HN-200330E00		3		
	HN-200330T00		4		
	HN-200330B01	Honor Device Co., Ltd. (Aohai)	5		
	HN-200330U01		6		
	HN-200330E01		7		
	HN-200330T01		8		
	HN-200330B01	Honor Device Co., Ltd. (Luxshare)	9		

	HN-200330U01		10
	HN-200330E01		11
	HN-200330T01		12
Battery	HB5668A0EIW	Honor Device Co., Ltd. (Sunwoda)	1
		Honor Device Co., Ltd. (Desay)	2
USB Cable	AU2-CRO030HF	LJ	1
	8B47-1250006H-FG	LX	2
	RY0019	NB	3

Note:

1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.

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 (2024)

ANSI C63.10-2020

Reference standard:

FCC CFR47 Part 2 (2024)

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

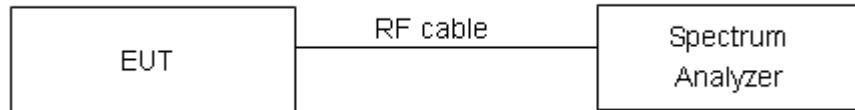
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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.

5.2. Frequency Stability

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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.

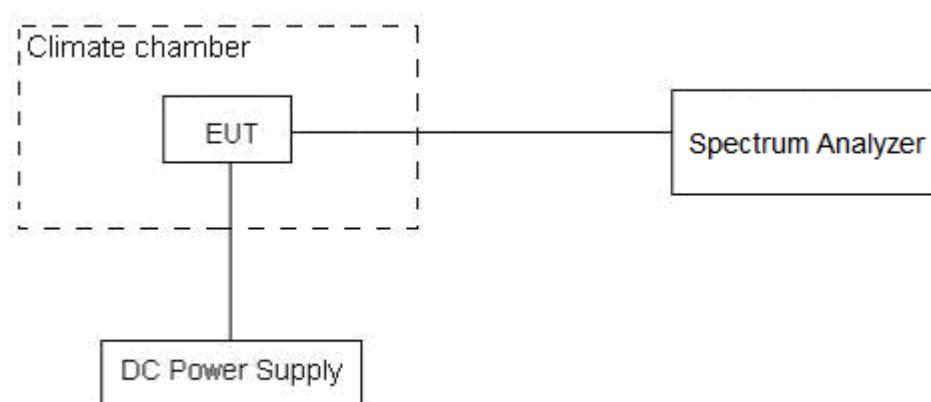
2. Frequency Stability (Voltage Variation)

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 3.15 V and 4.52 V, with a nominal voltage of 3.84V.

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 $k = 3$, $U = 0.01\text{ppm}$.

5.3. Radiates Emission

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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

Below30MHz

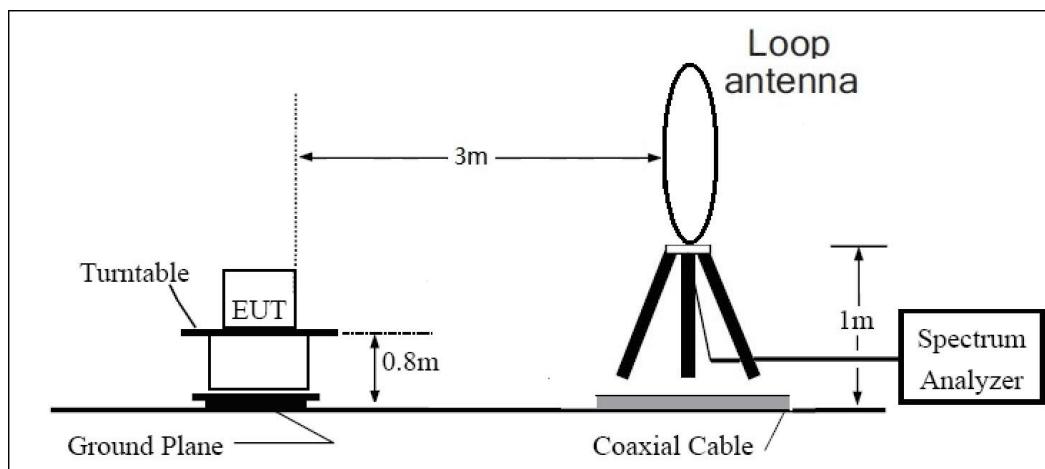
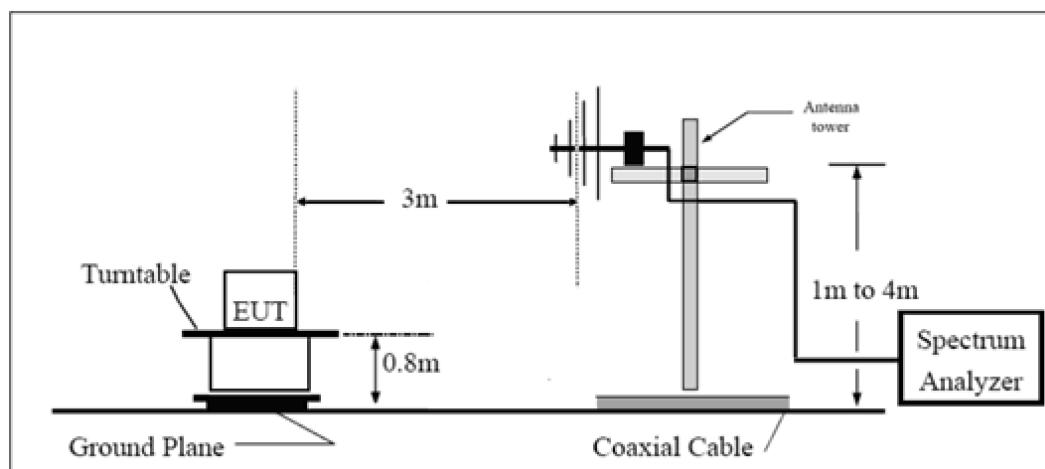
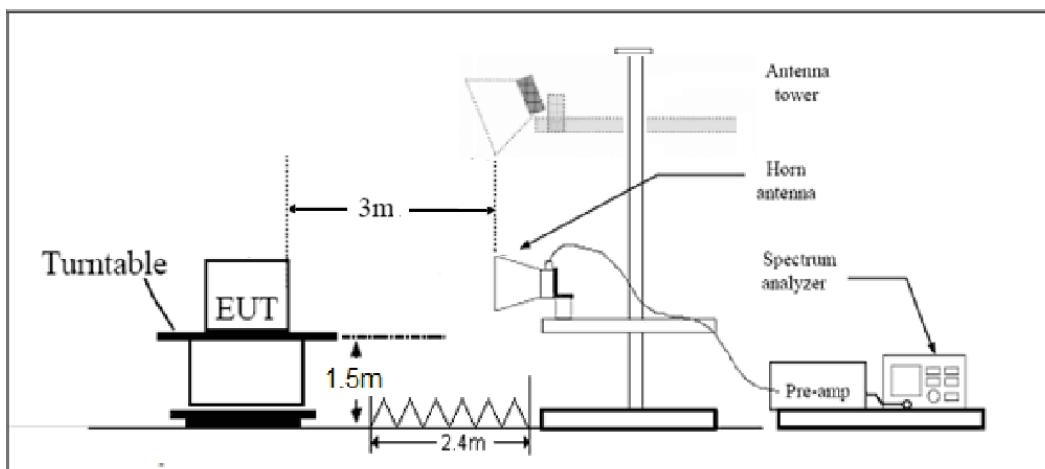
RBW=9KHz, VBW=30KHz, detector=peak;

Above 30MHz,

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

In-band

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

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(μ V/m)	Field strength(dB μ V/m)
0.009–0.490	2400/F(kHz)	128.519dB μ V/m -93.8dB μ V/m
0.490–1.705	24000/F(kHz)	73.8dB dB μ V/m -62.969dB μ V/m
1.705–30.0	30	69.5 dB μ V/m
30-88	100	40 dB μ V/m
88-216	150	43.5 dB μ V/m
216-960	200	46 dB μ V/m
Above960	500	54 dB μ 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

5.4. Conducted Emission

Ambient Condition

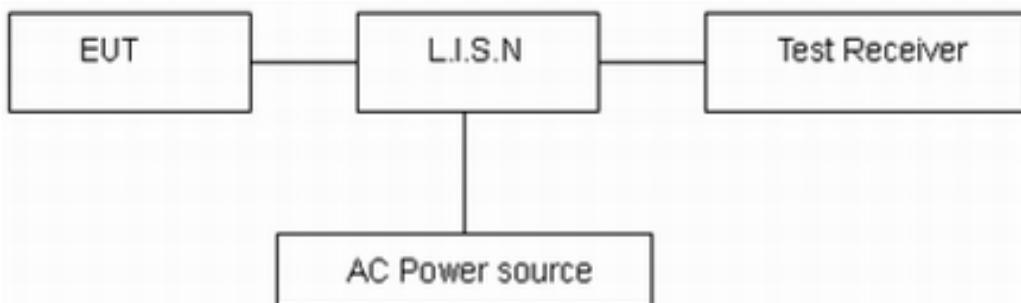
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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.

6. Test Results

6.1. 20dB Bandwidth

NFC-A

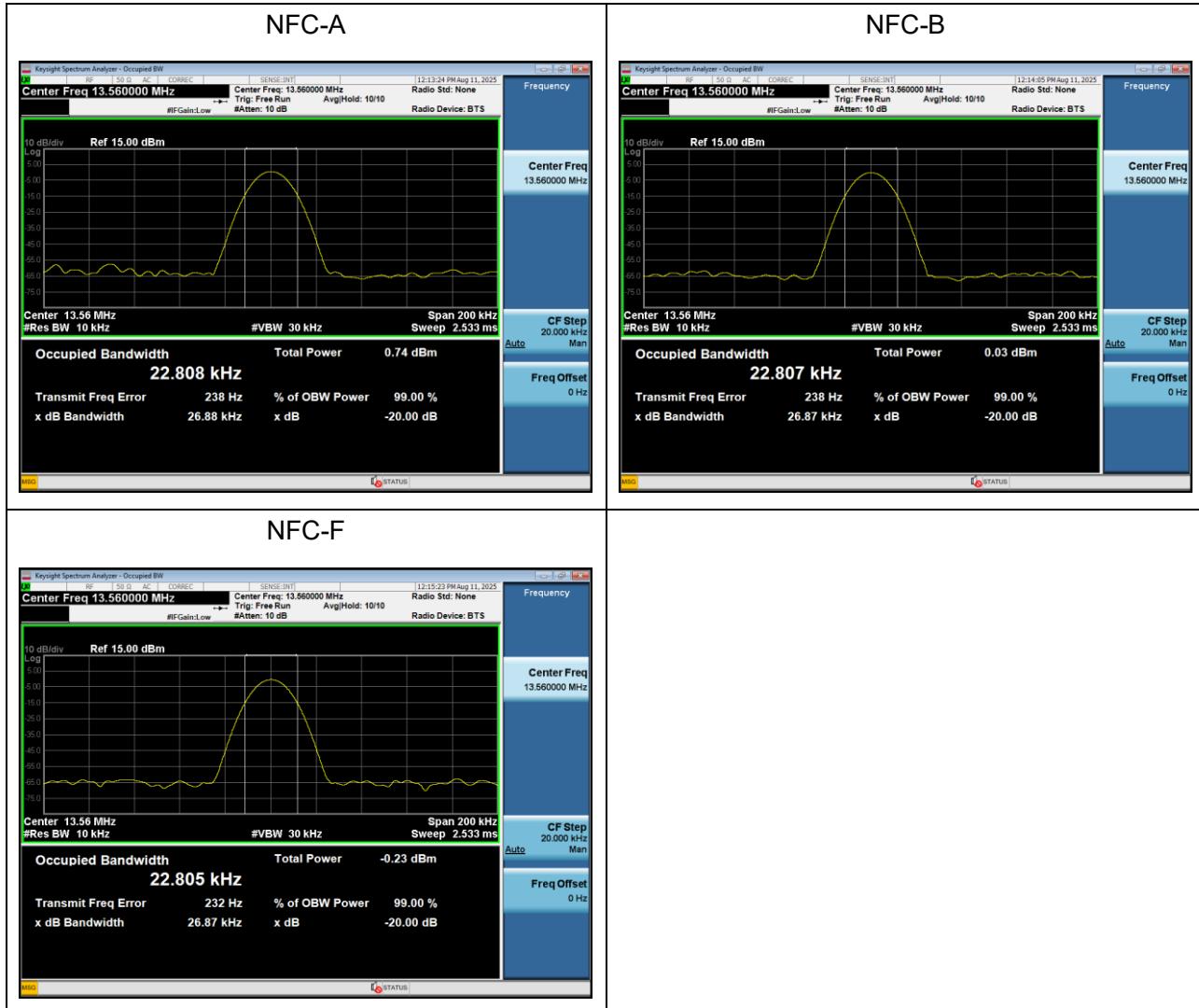
Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.808	26.88	PASS

NFC-B

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.807	26.87	PASS

NFC-F

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.805	26.87	PASS



6.2. Frequency Stability

NFC-A

Test status		Frequency				Tolerance (MHz)			
		13.56MHz							
temperature(°C)	voltage (V)	1min	2min	5min	10min	1min	2min	5min	10min
-20°C	3.84	13.559351	13.559343	13.559342	13.559351	0.000649	0.000657	0.000658	0.000649
-10°C	3.84	13.559349	13.559337	13.559335	13.559348	0.000651	0.000663	0.000665	0.000652
0°C	3.84	13.559340	13.559334	13.559325	13.559345	0.000660	0.000666	0.000675	0.000655
10°C	3.84	13.559333	13.559329	13.559319	13.559336	0.000667	0.000671	0.000681	0.000664
20°C	3.84	13.559332	13.559321	13.559310	13.559334	0.000668	0.000679	0.000690	0.000666
30°C	3.84	13.559329	13.559321	13.559303	13.559329	0.000671	0.000679	0.000697	0.000671
40°C	3.84	13.559328	13.559313	13.559295	13.559326	0.000672	0.000687	0.000705	0.000674
50°C	3.84	13.559319	13.559312	13.559295	13.559316	0.000681	0.000688	0.000705	0.000684
20°C	3.15	13.559319	13.559303	13.559285	13.559312	0.000681	0.000697	0.000715	0.000688
20°C	4.52	13.559314	13.559299	13.559283	13.559304	0.000686	0.000701	0.000717	0.000696

Test status		Tolerance (%)				Limit (%)	Conclusion
temperature(°C)	voltage (V)	1min	2min	5min	10min		
-20°C	3.84	0.004786	0.004845	0.004853	0.004786	0.01	PASS
-10°C	3.84	0.004801	0.004889	0.004904	0.004808	0.01	PASS
0°C	3.84	0.004867	0.004912	0.004978	0.004830	0.01	PASS
10°C	3.84	0.004919	0.004948	0.005022	0.004897	0.01	PASS
20°C	3.84	0.004926	0.005007	0.005088	0.004912	0.01	PASS
30°C	3.84	0.004948	0.005007	0.005140	0.004948	0.01	PASS
40°C	3.84	0.004956	0.005066	0.005199	0.004971	0.01	PASS
50°C	3.84	0.005022	0.005074	0.005199	0.005044	0.01	PASS
20°C	3.15	0.005022	0.005140	0.005273	0.005074	0.01	PASS
20°C	4.52	0.005059	0.005170	0.005288	0.005133	0.01	PASS

NFC-B

Test status		Frequency				Tolerance (MHz)			
		13.56MHz							
temperature(°C)	voltage (V)	1min	2min	5min	10min	1min	2min	5min	10min
-20°C	3.84	13.559344	13.559338	13.559350	13.559352	0.000656	0.000662	0.000650	0.000648
-10°C	3.84	13.559343	13.559331	13.559343	13.559352	0.000657	0.000669	0.000657	0.000648
0°C	3.84	13.559334	13.559327	13.559335	13.559349	0.000666	0.000673	0.000665	0.000651
10°C	3.84	13.559328	13.559323	13.559334	13.559348	0.000672	0.000677	0.000666	0.000652
20°C	3.84	13.559319	13.559320	13.559326	13.559348	0.000681	0.000680	0.000674	0.000652
30°C	3.84	13.559314	13.559319	13.559316	13.559338	0.000686	0.000681	0.000684	0.000662
40°C	3.84	13.559313	13.559313	13.559310	13.559333	0.000687	0.000687	0.000690	0.000667
50°C	3.84	13.559311	13.559309	13.559303	13.559331	0.000689	0.000691	0.000697	0.000669
20°C	3.15	13.559305	13.559307	13.559300	13.559328	0.000695	0.000693	0.000700	0.000672
20°C	4.52	13.559296	13.559300	13.559294	13.559319	0.000704	0.000700	0.000706	0.000681

Test status		Tolerance (%)				Limit (%)	Conclusion
temperature(°C)	voltage (V)	1min	2min	5min	10min		
-20°C	3.84	0.004838	0.004882	0.004794	0.004779	0.01	PASS
-10°C	3.84	0.004845	0.004934	0.004845	0.004779	0.01	PASS
0°C	3.84	0.004912	0.004963	0.004904	0.004801	0.01	PASS
10°C	3.84	0.004956	0.004993	0.004912	0.004808	0.01	PASS
20°C	3.84	0.005022	0.005015	0.004971	0.004808	0.01	PASS
30°C	3.84	0.005059	0.005022	0.005044	0.004882	0.01	PASS
40°C	3.84	0.005066	0.005066	0.005088	0.004919	0.01	PASS
50°C	3.84	0.005081	0.005096	0.005140	0.004934	0.01	PASS
20°C	3.15	0.005125	0.005111	0.005162	0.004956	0.01	PASS
20°C	4.52	0.005192	0.005162	0.005206	0.005022	0.01	PASS

NFC-F

Test status		Frequency				Tolerance (MHz)			
		13.56MHz							
temperature(°C)	voltage (V)	1min	2min	5min	10min	1min	2min	5min	10min
-20°C	3.84	13.559346	13.559339	13.559343	13.559348	0.000654	0.000661	0.000657	0.000652
-10°C	3.84	13.559345	13.559330	13.559334	13.559339	0.000655	0.000670	0.000666	0.000661
0°C	3.84	13.559338	13.559329	13.559333	13.559334	0.000662	0.000671	0.000667	0.000666
10°C	3.84	13.559334	13.559320	13.559330	13.559330	0.000666	0.000680	0.000670	0.000670
20°C	3.84	13.559330	13.559314	13.559327	13.559323	0.000670	0.000686	0.000673	0.000677
30°C	3.84	13.559330	13.559309	13.559326	13.559313	0.000670	0.000691	0.000674	0.000687
40°C	3.84	13.559325	13.559308	13.559316	13.559306	0.000675	0.000692	0.000684	0.000694
50°C	3.84	13.559322	13.559304	13.559316	13.559299	0.000678	0.000696	0.000684	0.000701
20°C	3.15	13.559312	13.559301	13.559307	13.559298	0.000688	0.000699	0.000693	0.000702
20°C	4.52	13.559305	13.559297	13.559300	13.559291	0.000695	0.000703	0.000700	0.000709

Test status		Tolerance (%)				Limit (%)	Conclusion
temperature(°C)	voltage (V)	1min	2min	5min	10min		
-20°C	3.84	0.004823	0.004875	0.004845	0.004808	0.01	PASS
-10°C	3.84	0.004830	0.004941	0.004912	0.004875	0.01	PASS
0°C	3.84	0.004882	0.004948	0.004919	0.004912	0.01	PASS
10°C	3.84	0.004912	0.005015	0.004941	0.004941	0.01	PASS
20°C	3.84	0.004941	0.005059	0.004963	0.004993	0.01	PASS
30°C	3.84	0.004941	0.005096	0.004971	0.005066	0.01	PASS
40°C	3.84	0.004978	0.005103	0.005044	0.005118	0.01	PASS
50°C	3.84	0.005000	0.005133	0.005044	0.005170	0.01	PASS
20°C	3.15	0.005074	0.005155	0.005111	0.005177	0.01	PASS
20°C	4.52	0.005125	0.005184	0.005162	0.005229	0.01	PASS

6.3. Radiates Emission

The detailed test data see **ANNEX A EFTA25070272-IE-01-NFC-FCC Test Result**.

6.4. Conducted Emission

The detailed test data see **ANNEX A EFTA25070272-IE-01-NFC-FCC Test Result**.

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	KEYSIGHT	N9020A	MY50510203	2024-12-02	2025-12-01
DC Power Supply	UNI-T	UTP1306S+	2205D0517426	2024-12-02	2025-12-01
Climate Chamber	ESPEC	SU-242	93000506	2024-12-02	2025-12-01
EMI Test Receiver	R&S	ESCI3	100948	2025-05-07	2026-05-06
Signal Analyzer	R&S	FSV40	101186	2025-05-06	2026-05-05
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

8. The EUT Appearance

Refer to *EUT Appearance*.

9. Test Setup Photos

Refer to *Part15C Test Setup*.

***** END OF REPORT *****