



# TEST REPORT

**REPORT NUMBER: 25B02W000010-010**

**ON**

<b>Type of Equipment:</b>	Handheld Wireless Terminal
<b>Type of Designation:</b>	T8F1C
<b>Brand Name:</b>	SUNMI
<b>Manufacturer:</b>	Shanghai Sunmi Technology Co.,Ltd.
<b>FCC ID:</b>	2AH25T8F1C
<b>IC:</b>	22621-T8F1C

**ACCORDING TO**

**FCC CFR47 Part 2, FCC CFR47 Part 15C, ANSI C63.10-2013, RSS-210 Issue 11, RSS-Gen Issue 5**

**Chongqing Academy of Information and Communications Technology**

*Month date, year*

*Aug.14th, 2025*

*Signature*



**Director**

**Note:**

The test results in this test report relate only to the devices specified in this report. This



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**Report No.: 25B02W000010-010**

**Revision Version**

<b>Report Number</b>	<b>Revision</b>	<b>Date</b>
25B02W000010-010	00	2025-08-14

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## 1. Test Laboratory

### 1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration Number:	CN1239
Address:	No.19 EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

### 1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	25-75%RH

### 1.3. Project data

Testing Start Date:	2025-06-16
Testing End Date:	2025-06-16

### 1.4. Signature



2025-08-14

**Li Runhao**  
(Prepared this test report)

Date



2025-08-14

**Xiao Yu**  
(Reviewed this test report)

Date



2025-08-14

**Zhou Jin**  
Director of the laboratory  
(Approved this test report)

Date

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## 2. Client Information

### 2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	Shanghai
Country:	China
Telephone:	8618501703215
Fax:	N/A
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

### 2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	Shanghai
Country:	China
Telephone:	8618501703215
Fax:	N/A
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

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### 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

EUT Description	Handheld Wireless Terminal
Model name	T8F1C
Brand name	SUNMI
Power Rating	DC 3.87V from battery, DC 5V & 9V from adapter
Modulation Type	ASK
Antenna Information	Loop Antenna
Operating Frequency	13.56MHz
Supported Radio Technology and Bands	GSM 850/900/1800/1900 WCDMA Band I/II/IV/V/VI/VIII/XIX LTE Band 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/34/38/39/ 40/41/66/71 BT 5.2 BR/EDR/BLE WLAN 802.11b,g,n WLAN 802.11a,n,ac GPS/GLONASS/BDS/Galileo NFC RFID
HVIN	T8F1C

Note: Photographs of EUT are shown in ANNEX B of this test report.

#### 3.2. Internal Identification of EUT used during the test

EUT ID	SN or IMEI	HW Version	SW Version	Date of receipt
25B02W000010#S4	862072070057688/ 862072070057696	V00	4.0.0	2025-05-23

\*EUT ID: is used to identify the test sample in the lab internally.

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### 3.3. Internal Identification of AE used during the test

AE ID*	Description	Note
C1	USB Cable	SSM-A033A
A1	Adapter	TPA-141A050200UU01
A2	Adapter	UC13US
A3	Adapter	TPA-10120150UU
B1	Battery	GYPA

\*AE ID: is used to identify the test sample in the lab internally.  
AE Information is provided by the customer.



## 4. Reference Documents

### 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title
FCC CFR47 Part 2	Frequency allocations and radio treaty matters; general rules and regulations
FCC CFR47 Part 15C	Radio Frequency Devices-Intentional Radiators
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
RSS-210	License-Exempt Radio Apparatus: Category I Equipment
RSS-Gen	General Requirements for Compliance of Radio Apparatus
Note: The standard of FCC 47 CFR Part 2 has not been accredited by A2LA.	

## 5. Test Equipments Utilized

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Test Receiver	ESR 3	101382	03	3.48 SP2	R&S	2025-06-28
2	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2025-06-28
3	Ultra-wideband Log Periodic Antenna	VULB9163	9163-586	--	--	Schwarzbeck	2026-10-28
4	2-Line V-Network	ENV216	102368	--	--	R&S	2026-05-23
5	Loop Antenna	6502	00213256	--	--	ETS	2026-09-04
6	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2025-06-28

Test software

No.	Name	version	SN	Manufacture
1	EMC32	V10.40.10	--	R&S
2	EMC32	V10.20.01	--	R&S

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## 6. Test Results

### 6.1. Summary of Test Results

FCC Rules	Name of Test	Result
15.215(c) / RSS-Gen 6.7	20 dB bandwidth	Pass
15.225(e) / RSS-210 B.6.b	Frequency Stability	Pass
15.225 (a) (b) (c) (d) and 15.209 / RSS-210 B.6.a (i , ii , iii , iv)	Radiated Emission	Pass
15.207 / RSS-Gen 8.8	Conducted Emissions	Pass
2.1049 / RSS-Gen 6.7	Occupied bandwidth	Pass
15.203 RSS Gen 6.8, RSS-247 5.4	Antenna requirement	Pass <sup>Note 2</sup>

**Note1:**

The T8F1C, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing. This project is a variant project based on the original report 24T04I300217-072 issued by 3in with below changes:

- Added RFID function.
- Modified 2/3/4G Div Antenna and WIFI Antenna. Remove 1 NFC, Add RFID Antenna.
- PCB Changes,
- Removed: 8 Pin in behind.
- Mechanical shell changes.

Type of Service	Model Name	Super capacitor	pogopin	NFC	RFID
Original	T8F1B	Yes	8 Pin in behind & 6 pin in bottom	Two-sided	No
Variant	T8F1C	No	6 Pin in bottom	Under screen	Yes

According to the product change description, we retest the NFC as shown in Section 7.

**Note2:**

The EUT has an internal loop antenna for NFC (13.56MHz) function, so this EUT complies with the RSS Gen 6.8 and RSS-247 5.4 antenna requirements, please refer to the internal photos.

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## 7. Test Results

### 7.1. 20 dB bandwidth

<b>Specifications:</b>	15.215(c) / RSS-Gen 6.7
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-16
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 1: TX mode+ B1
<b>Test Results:</b>	Pass

**Limit/Criterion:**

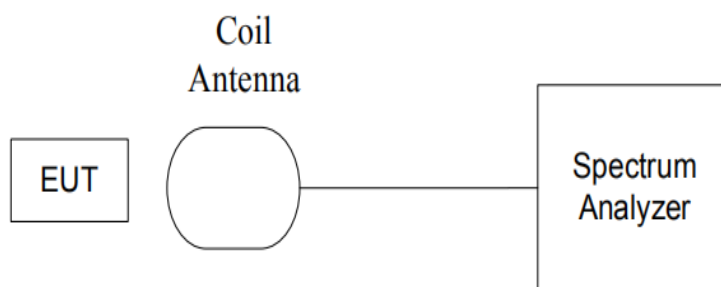
N/A

**EUT Setup:**



Mode 1

**EUT Connection Diagram of Test System**



**Test Method:**

- The transmitter output signal was picked up by coil antenna to the spectrum analyzer.
- The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer.
- The bandwidth of the center frequency was measured with 200Hz RBW, 500Hz VBW and 14kHz span.

**Uncertainty Measurement:**

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The measurement uncertainty is 40Hz (k=2)

### Test Condition:

The measurement of EUT is carried out under the transmit state of NFC and without modulation.

EUT had been not connected to a travel adapter.

During the measurements, the ambient temperature is in the range of 15~25°C.

### Test Result:

Carrier frequency (MHz)	20dB Bandwidth (kHz)	Test Results	Conclusion
13.56	0.583	See Figure 7.1.1	Pass

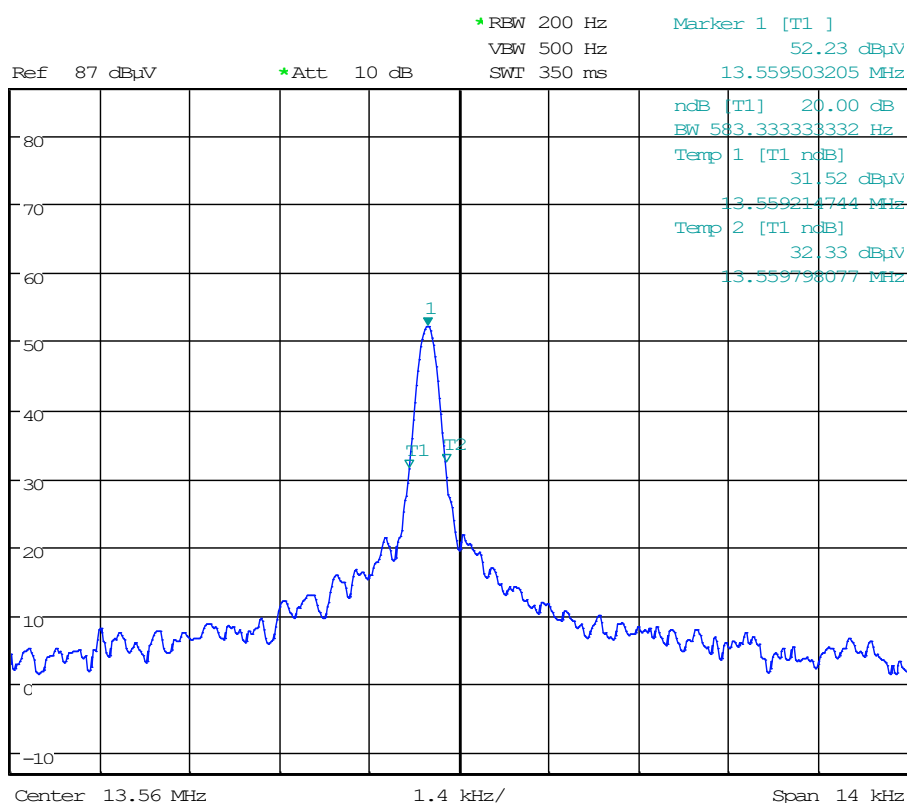


Figure 7.1.1 Mode 1 20dB Bandwidth

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## 7.2. Frequency Stability

<b>Specifications:</b>	15.225(e) / RSS-210 B.6.b
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-16
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 1: TX mode+ B1
<b>Test Results:</b>	Pass

### Limit/Criterion:

15.225(e): The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency.

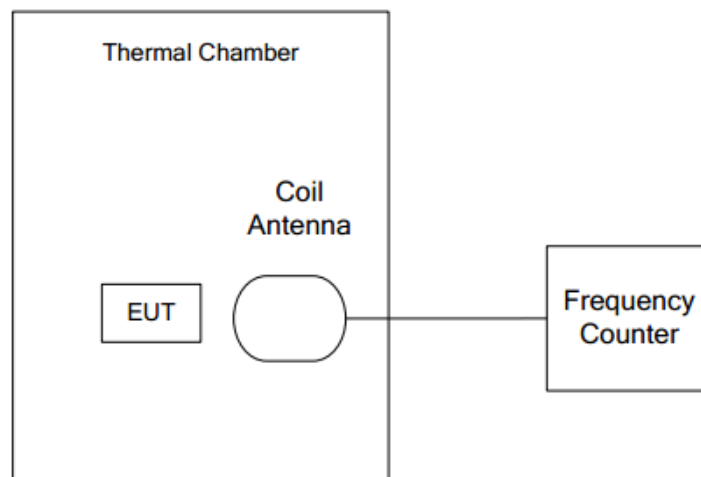
RSS-210 B.6.b: The frequency tolerance of the carrier signal shall be maintained within  $\pm 100$  ppm of the operating frequency.

### EUT Setup:



Mode 1

### EUT Connection Diagram of Test System



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**Test Method:**

The transmitter output single was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span.

During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

**Uncertainty Measurement:**

The measurement uncertainty  $U=2.12\text{Hz}(k=2)$ .

**Test Condition:**

The measurement of EUT is carried out under the transmit state of without modulation, EUT1 had been not connected to a travel adapter.

Operation Temperature:  $-20^{\circ}\text{C}$ 、 $-10^{\circ}\text{C}$ 、 $0^{\circ}\text{C}$ 、 $10^{\circ}\text{C}$ 、 $20^{\circ}\text{C}$ 、 $30^{\circ}\text{C}$ 、 $40^{\circ}\text{C}$ 、 $50^{\circ}\text{C}$

Operation Voltage:  $V_{\min}=3.4\text{V}$ ,  $V_{\max}=4.4\text{V}$ , and  $T_{\text{nom}}=3.87\text{V}$ .

**Test Result:**

Temperature	Voltage	Frequency Error (MHz)			
		Startup	2Min Later	5Min Later	10Min Later
$-20^{\circ}\text{C}$	3.87V	13.559801	13.559811	13.559821	13.559831
$-10^{\circ}\text{C}$		13.559602	13.559612	13.559622	13.559632
$0^{\circ}\text{C}$		13.559905	13.559915	13.559925	13.559935
$20^{\circ}\text{C}$		13.559504	13.559514	13.559524	13.559534
$30^{\circ}\text{C}$		13.559708	13.559718	13.559728	13.559738
$40^{\circ}\text{C}$		13.559406	13.559416	13.559426	13.559436
$50^{\circ}\text{C}$		13.559997	13.560007	13.560017	13.560027
$20^{\circ}\text{C}$	3.4V	13.559307	13.559317	13.559327	13.559337
$20^{\circ}\text{C}$	4.4V	13.559200	13.55921	13.55922	13.55923
Temperature	Voltage	Frequency Error (%)			

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-20℃	3.87V	0.000745	0.000819	0.000892	0.000966
-10℃		-0.000723	-0.000649	-0.000575	-0.000501
0℃		0.001512	0.001586	0.001659	0.001733
20℃		-0.001445	-0.001372	-0.001298	-0.001224
30℃		0.000059	0.000133	0.000206	0.000280
40℃		-0.002168	-0.002094	-0.002021	-0.001947
50℃		0.002190	0.002264	0.002338	0.002412
20℃	3.4V	-0.002898	-0.002825	-0.002751	-0.002677
20℃	4.4V	-0.003687	-0.003614	-0.003540	-0.003466
Temperature	Voltage	Frequency Error (ppm)			
-20℃	3.87V	7.448542	8.186022	8.923501	9.660981
-10℃		-7.227299	-6.489819	-5.752340	-5.014860
0℃		15.118329	15.855808	16.593287	17.330767
20℃		-14.454597	-13.717118	-12.979638	-12.242159
30℃		0.589984	1.327463	2.064942	2.802422
40℃		-21.681896	-20.944416	-20.206937	-19.469457
50℃		21.903139	22.640619	23.378098	24.115578
20℃	3.4V	-28.982942	-28.245463	-27.507983	-26.770504
20℃	4.4V	-36.873972	-36.136493	-35.399013	-34.661534

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### 7.3. Radiated Emission

#### 7.3.1 Electric Field Strength of Fundamental Emissions

<b>Specifications:</b>	15.225 (a) (b) (c) (d) and 15.209 / RSS-210 B.6.a (i , ii , iii , iv)
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-16
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 1: TX mode+ B1
<b>Test Results:</b>	Pass

#### Limit/Criterion:

Clause 15.225(a) / B.6.a (i) 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) / B.6.a (ii) 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) / B.6.a (iii) 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.

Frequency Range (MHz)	E-field Strength Limit @30m (uV/m)	E-field Strength Limit @3m (dBuV/m)
13.560 ± 0.007	15848	124
13.410 to 13.553 13.567 to 13.710	334	90
13.110 to 13.410 13.710 to 14.010	106	81
Outside the band 13.110- 14.010	Based on 15.225.d, the limit of this range see section 6.3.2.4 Base on RSS-210 B.6.a.iv, the limit of this range reference RSS-Gen 8.9	

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) = 40log10 (Measurement Distance / Specification Distance)

#### EUT Setup:

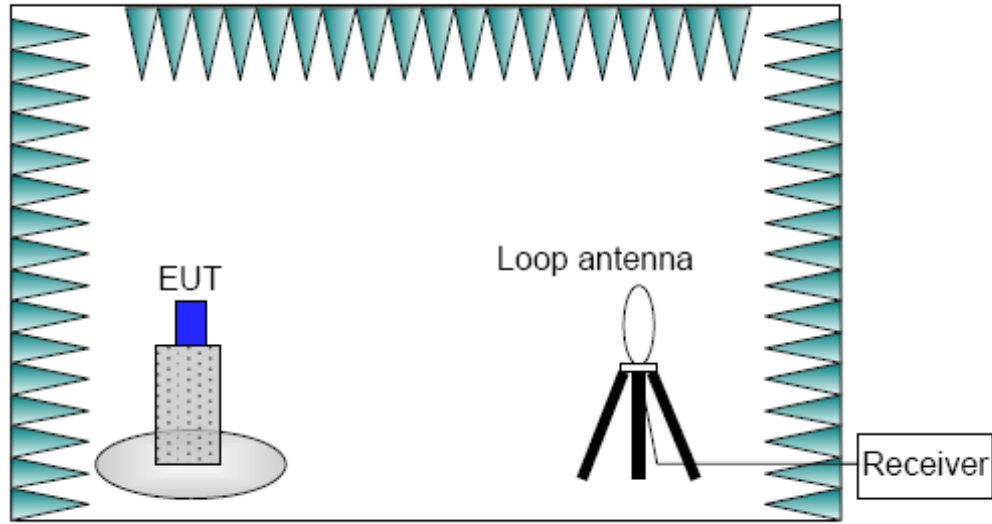
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EUT

Mode 1

### EUT Connection Diagram of Test System



### Test Method:

- a. The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.
- b. Loop Antenna was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

### Uncertainty Measurement:

The measurement uncertainty  $U=4.30\text{dB}(k=2)$ .

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**Test Condition:**

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
13.11-14.01	10kHz/30kHz	AUTO

**Test Result:**

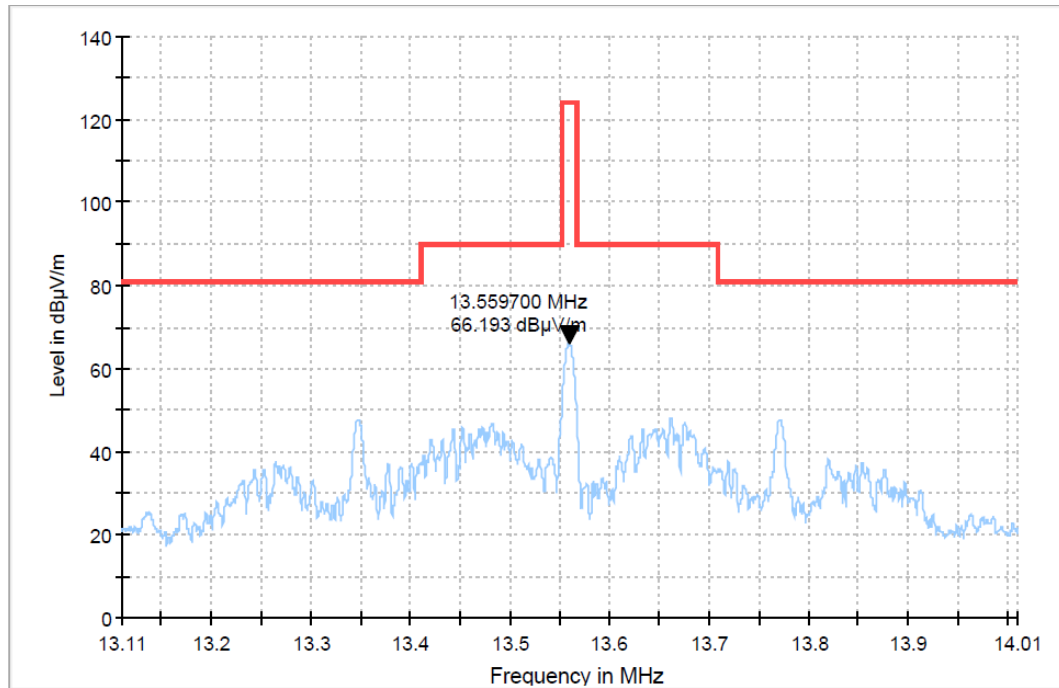


Figure 7.3.1-1 Mode 1 Electric Field Strength of Fundamental Emissions

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**7.3.2 Electric Field Radiated Emissions (Below 30MHz)**

<b>Specifications:</b>	15.225 (a) (b) (c) (d) and 15.209 / RSS-210 B.6.a (i , ii , iii , iv)
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-16
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 1: TX mode+ B1
<b>Test Results:</b>	Pass

**Limit/Criterion:**

Frequency Range (MHz)	E-field Strength Limit (Uv/m)	E-field Strength Limit @3m (dBuV/m)
0.009-0490	2400/F (kHz) @300m	129-94
0.490-1.705	24000/F (kHz) @30m	74-63
1.705-30	30 @30m	70

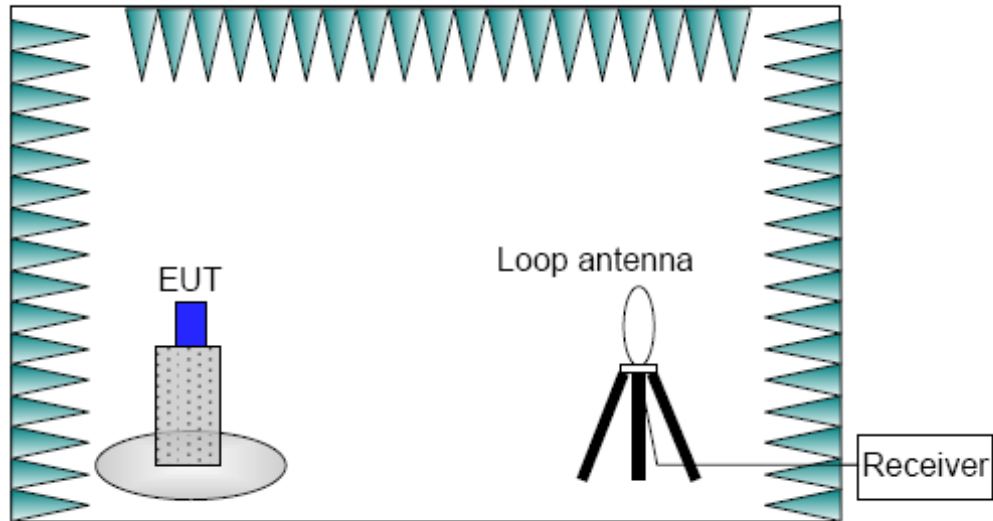
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:  
 Extrapolation (dB) = 40log10(Measurement Distance / Specification Distance)  
 dBuA/m=dBuV/m / 120π  
 Based on RSS-Gen Table 5, the ISED limit is the same as above.

**EUT Setup:**


Mode 1

**EUT Connection Diagram of Test System**
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#### Test Method:

- The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The measurements were performed with the peak detector and if required, the quasi-peak detector.
- Loop Antenna was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

#### Uncertainty Measurement:

The measurement uncertainty  $U=4.30\text{dB}(k=2)$ .

#### Test Condition:

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
0.009-30	10kHz/30kHz	AUTO

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**Test Result:**

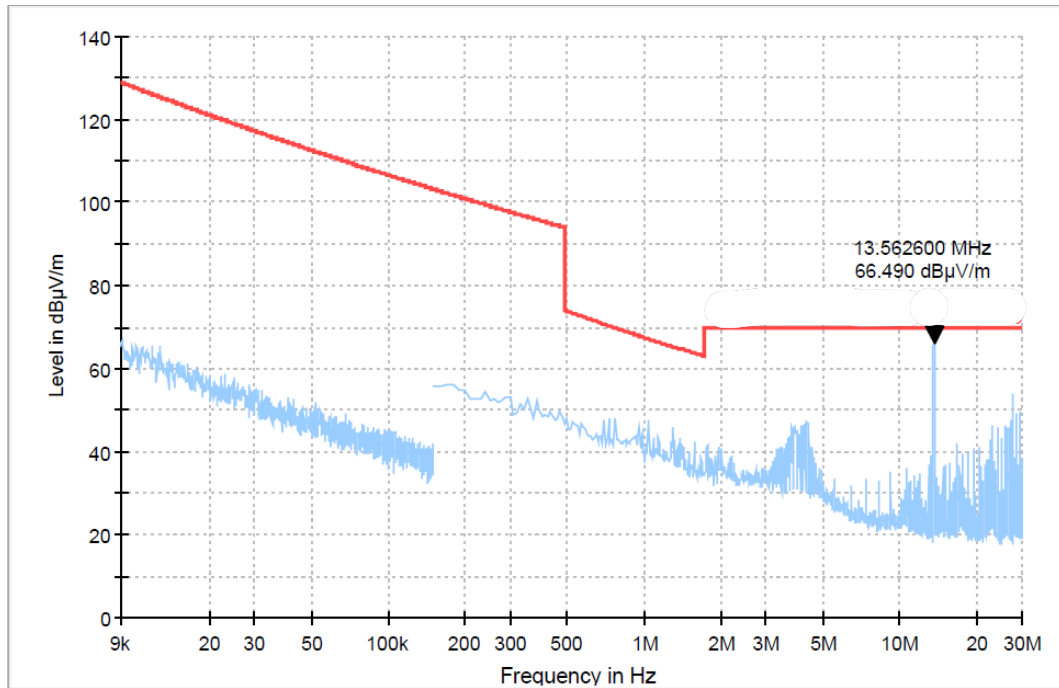


Figure 7.3.2-1 Mode 1 Electric Field Radiated Emissions (Below 30MHz)

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**7.3.3 Electric Field Radiated Emissions (Above 30MHz)**

<b>Specifications:</b>	15.225 (a) (b) (c) (d) and 15.209 / RSS-210 B.6.a (i , ii , iii , iv)
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-16
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 1: TX mode+ B1
<b>Test Results:</b>	Pass

**Limit/Criterion:**

Frequency Range (MHz)	Quasi-Peak (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
30-88	40	N/A	N/A
88-216	43.5	N/A	N/A
216-960	46	N/A	N/A
Above 960	54	N/A	N/A
Above 1000	N/A	74	54

**ISED Limit:**

Frequency Range (MHz)	Field Strength (μV/m at 3 metres)	Field Strength (dBμV/m at 3 metres)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Note: dBuV/m = 20 log Uv/m

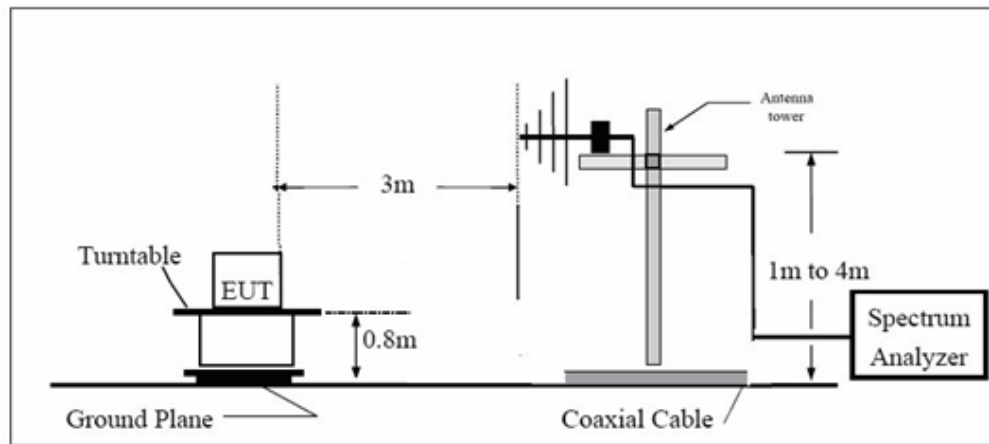
**EUT Setup:**


Mode 1

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### EUT Connection Diagram of Test System



### Test Method:

- The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. Both horizontal and vertical polarizations of the antenna were set during the measurement. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.
- The EUT was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

### Uncertainty Measurement:

The measurement uncertainty  $U=3.79\text{dB}(k=2)$ .

### Test Condition:

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120 kHz / 300kHz	AUTO

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### Test Result:

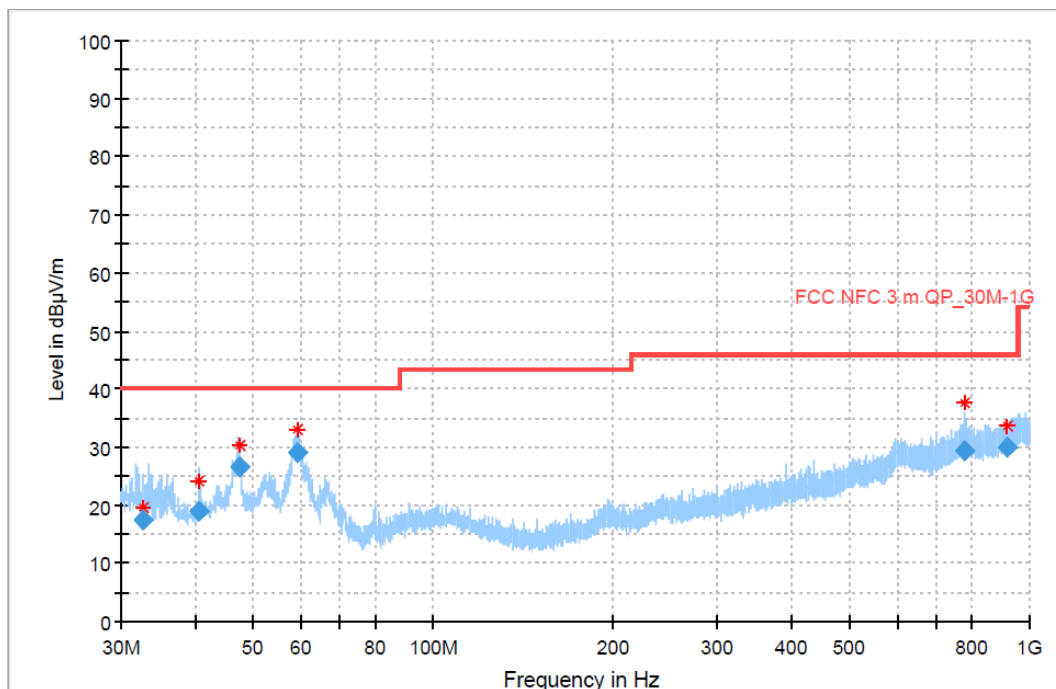


Figure 7.3.3-1 Mode 1 Electric Field Radiated Emissions (Above 30MHz)

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.608496	17.42	40.00	22.58	100.0	V	-25.0	-15
40.677896	18.97	40.00	21.03	100.0	V	261.0	-13
47.341989	26.52	40.00	13.48	100.0	V	138.0	-12
59.270800	29.18	40.00	10.82	108.0	V	283.0	-12
776.251640	29.43	46.00	16.57	114.0	V	118.0	0
914.357867	29.87	46.00	16.13	225.0	H	253.0	0

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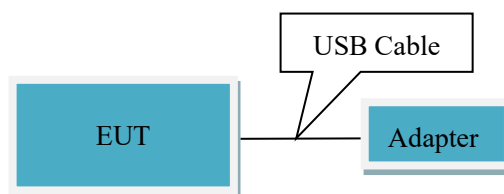
#### 7.4. Conducted Emission

<b>Specifications:</b>	15.207 / RSS-Gen 8.8
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-03
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 2: TX mode+ A3+ C1+ B1
<b>Test Results:</b>	Pass

#### Limit Level Construction:

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

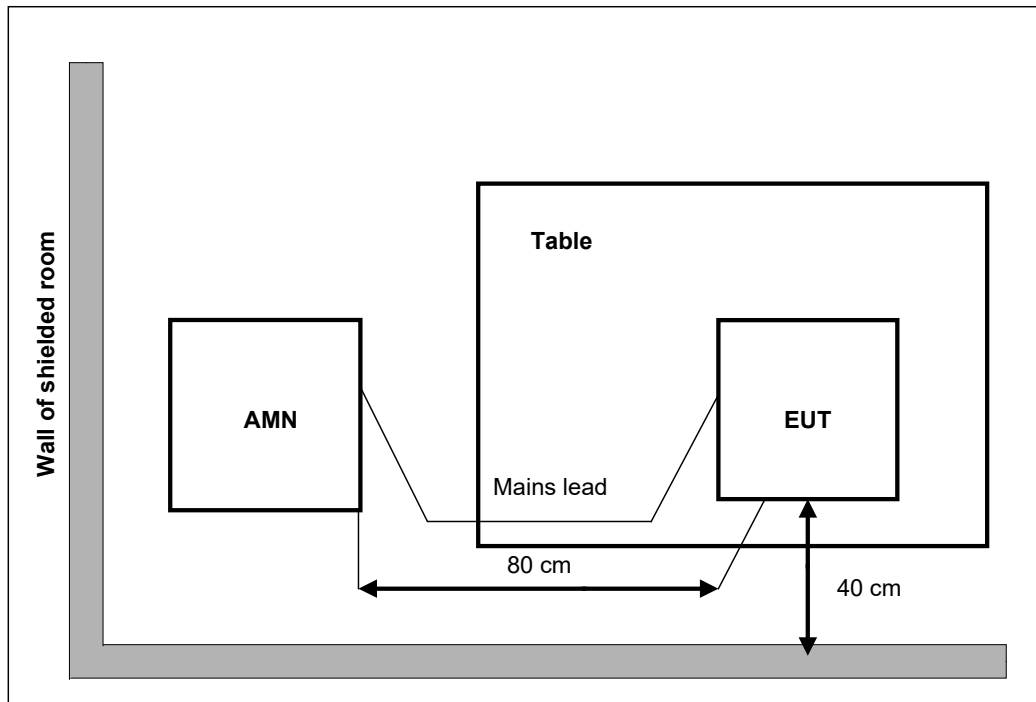
#### EUT Setup:



Mode 2

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#### Test Method:

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector. Tested in accordance with the procedures of ANSI C63.10-2013 / RSS-Gen Issue 5.

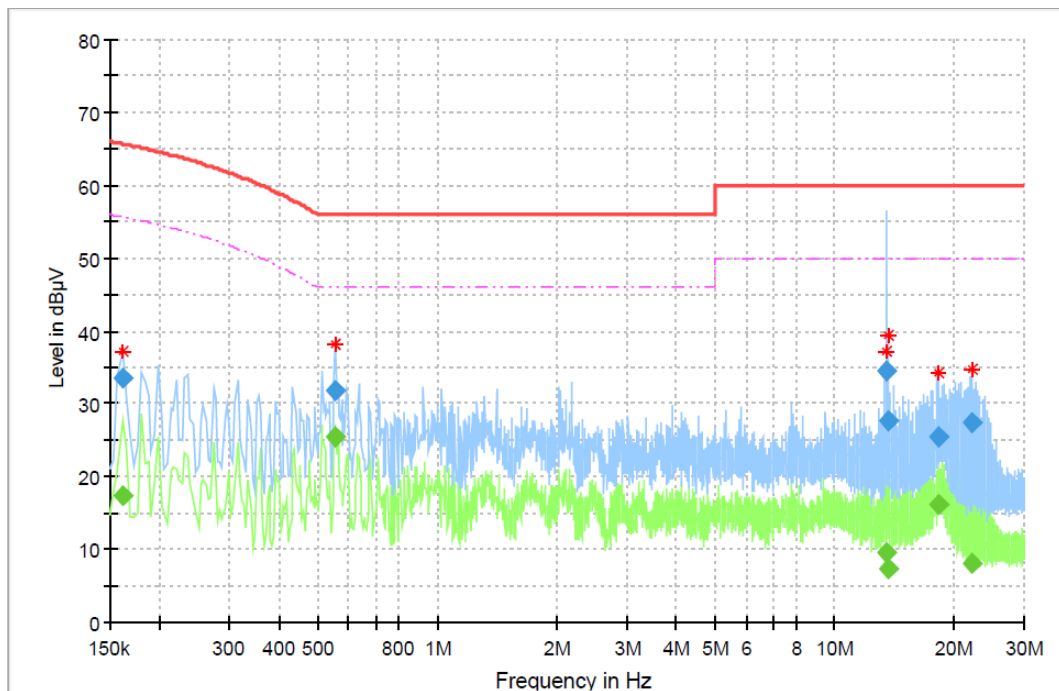
#### Uncertainty Measurement:

The measurement uncertainty (150kHz-30MHz) is 1.97 dB (k=2).

#### Test Result:

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CE 150kHz-30MHz Mode 2

### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.161194	---	17.47	55.68	38.21	15000.0	9.000	L1	ON	10.0
0.161194	33.57	---	65.68	32.11	15000.0	9.000	L1	ON	10.0
0.552975	---	25.38	46.00	20.62	15000.0	9.000	N	ON	10.1
0.552975	31.86	---	56.00	24.14	15000.0	9.000	N	ON	10.1
13.522800	34.47	---	60.00	25.53	15000.0	9.000	L1	ON	9.5
13.522800	---	9.66	50.00	40.34	15000.0	9.000	L1	ON	9.5
13.664588	27.60	---	60.00	32.40	15000.0	9.000	L1	ON	9.5
13.664588	---	7.25	50.00	42.75	15000.0	9.000	L1	ON	9.5
18.186863	25.49	---	60.00	34.51	15000.0	9.000	L1	ON	9.5
18.186863	---	16.16	50.00	33.84	15000.0	9.000	L1	ON	9.5
22.183031	27.48	---	60.00	32.52	15000.0	9.000	L1	ON	9.4
22.183031	---	8.08	50.00	41.92	15000.0	9.000	L1	ON	9.4

L1 and N is all have been tested, the result of them is synthesized in the above data diagram.

Emission level(quasi-peak or Average peak) (dBμV) = Raw value by receiver(dBμV) + Corr (Insertion loss+ cable loss) (dB)

The raw value is used to calculate by software which is not shown in the sheet.

Margin (dB) = limit value (dBμV) – emission level (dBμV).

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## 7.5. Occupied bandwidth

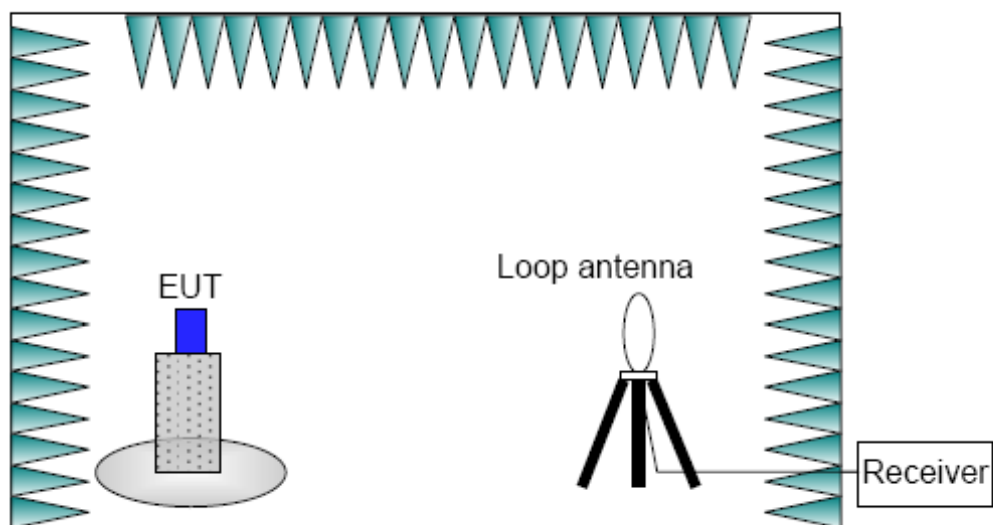
<b>Specifications:</b>	2.1049 / RSS-Gen 6.7
<b>DUT Serial Number:</b>	IMEI:862072070057688;862072070057696
<b>Date of Tests</b>	2025-06-16
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
<b>Operation Mode</b>	Mode 1: TX mode+ B1
<b>Test Results:</b>	Pass

### EUT Setup:



Mode 1

### EUT Connection Diagram of Test System



### Test Method:

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

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The following conditions shall be observed for measuring the occupied bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x Db bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x Db bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement. The EUT was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

**Uncertainty Measurement:**

The measurement uncertainty is 70.06Hz (k=2)

**Test Result**

Center Freq. (MHz)	$f_L$ (MHz)	$f_H$ (MHz)	OBW (Hz)
13.559503	13.559237	13.559798	560.897

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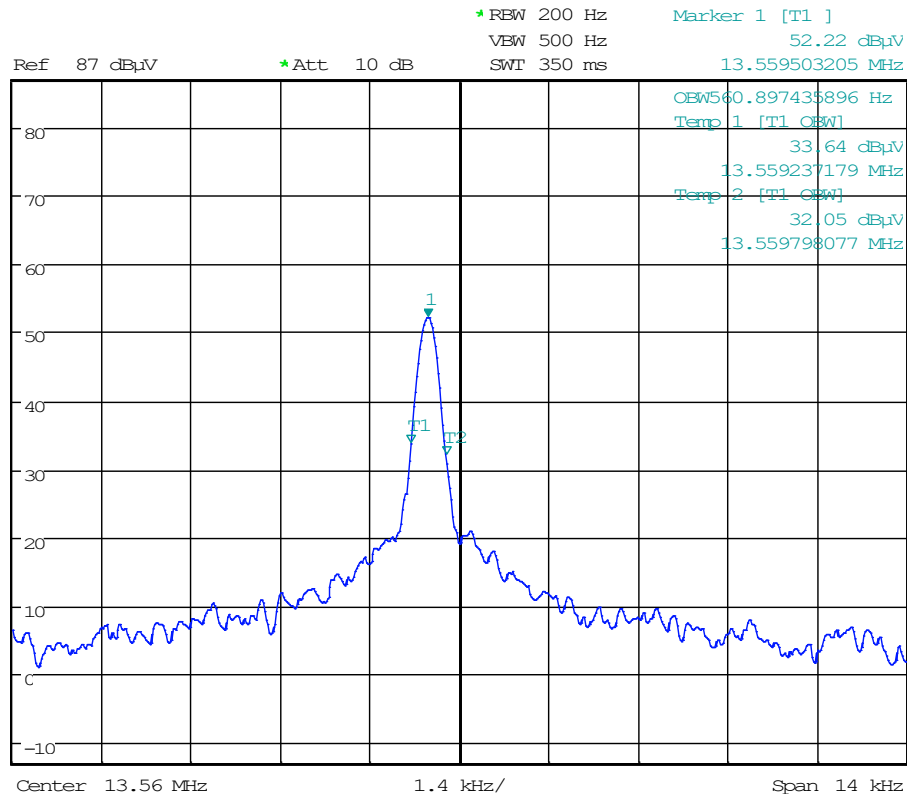


Figure 7.5.1 Mode 1 Occupied bandwidth

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## **Annex A EUT Photos**

See the document "25B02W000010-External Photos".

See the document "25B02W000010-Internal Photos".

Test photo See the document "25B02W000010\_NFC Test Setup Photos".

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## **Annex B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

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

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