RF TEST REPORT

Applicant	Xiaomi Communications Co., Ltd.
FCC ID	2AFZZ1119DG
Product	Mobile Phone
Brand	Redmi
Model	21061119DG
Report No.	R2106A0482-R8
Issue Date	July 24, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2020)**. 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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TABLE OF CONTENT

1. Test Laboratory....4
1.1. Notes of the test report....4
1.2. Test facility....4
1.3. Testing Location....4
2. General Description of Equipment under Test....5
2.1. Applicant and Manufacturer Information....5
2.2. General information....5
3. Applied Standards....6
4. Test Configuration....7
5. Test Case Results....8
5.1. 20dB Bandwidth....8
5.2. Frequency Stability....11
5.3. Radiates Emission....17
5.4. Conducted Emission....24
6. Main Test Instruments....27
ANNEX A: The EUT Appearance....28
ANNEX B: Test Setup Photos....29

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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: June 30, 2021 ~ July 24, 2021 Date of Sample Received: June 22, 2021			
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 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.			

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1. Test Laboratory

1.1. Notes of the test report

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1.2. Test facility

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

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)

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

1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Xiaomi Communications Co., Ltd.
Applicant address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer	Xiaomi Communications Co., Ltd.
Manufacturer address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2. General information

EUT Description				
Model:	21061119DG			
IMEI:	IMEI 1: 868393050035963 IMEI 2: 868393050035971			
Hardware Version:	P1.1			
Software Version:	MIUI12.5			
Power Supply:	AC adapter			
Antenna Type:	PIFA Antenna			
Memory	4G+64G; 6G+128G; 4G+128G			
Antenna Connector	A permanently attached antenna(meet with the standard FCC Part 15.203 requirement)			
Test Mode:	NFC-A	NFC-B	NFC-F	NFC-V
Modulation Type:	ASK	ASK, BPSK	ASK	ASK
Operating Frequency Range(s)	13.56MHz			
Rated Power Supply Voltage	3.87V			
Operating Voltage	Minimum: 3.6V Maximum: 4.45V			
Operating Temperature	Lowest: 0°C Highest: +40°C			
Extreme Temperature	Lowest: -20°C Highest: +50°C			
Note: The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.				

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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 (2020)

ANSI C63.10 (2013)

Reference standard:

FCC CFR47 Part 2 (2020)

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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.

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5. Test Case Results

5.1. 20dB Bandwidth

Ambient condition

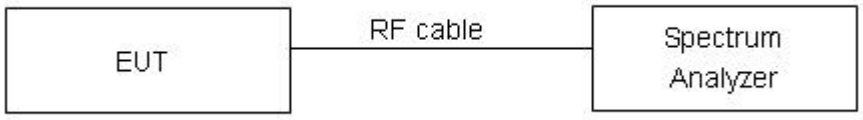
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

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Test Results:

NFC-A

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.826	26.840	PASS

NFC-B

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.860	26.880	PASS

NFC-F

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.899	26.870	PASS

NFC-V

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	22.866	26.86	PASS

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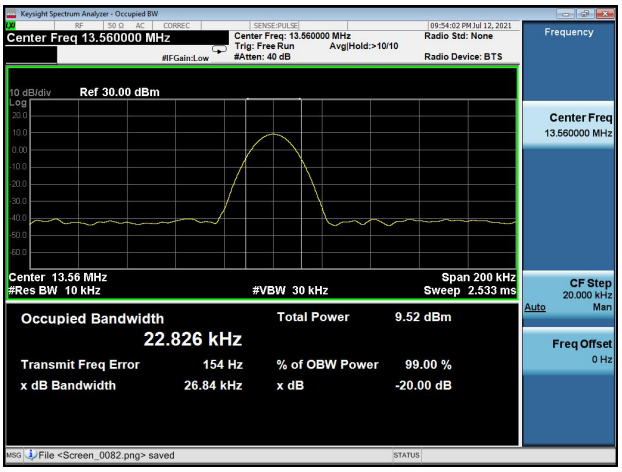
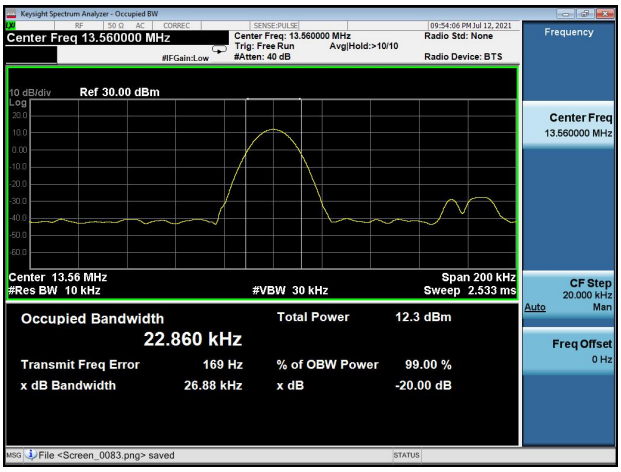
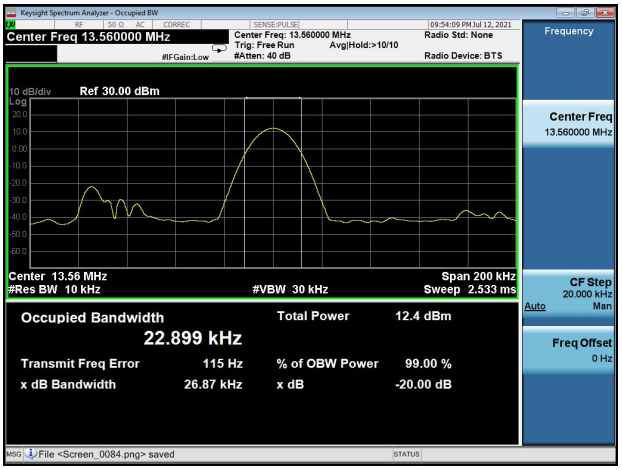
NFC-A



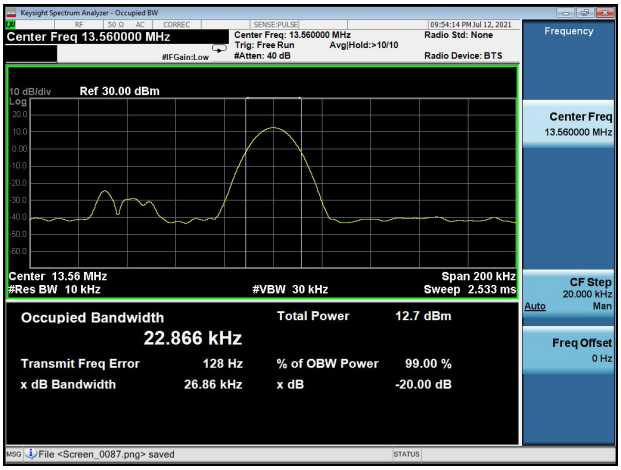
NFC-B



NFC-F



NFC-V



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5.2. Frequency Stability

Ambient condition

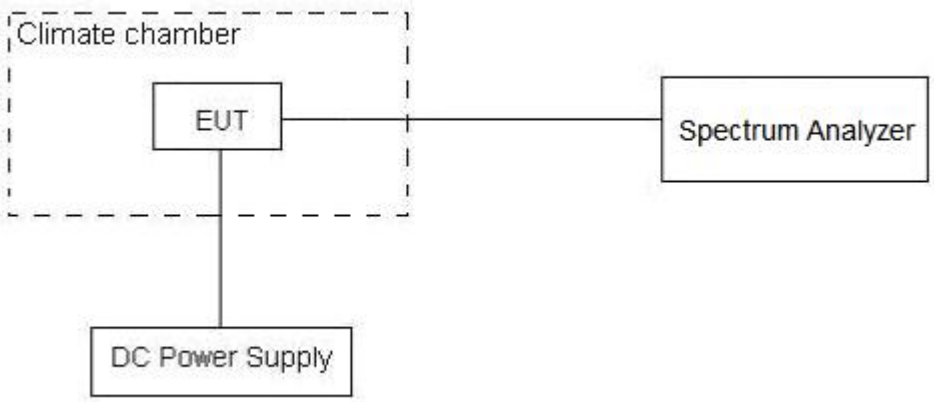
Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)
   The temperature inside the climate chamber is varied from 0°C to +40°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 0°C to +40°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 3.87 V and 4.45 V, with a nominal voltage of 3.6V.

Test setup



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Limits

Rule Part 15.225 (e) 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. 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= 0.01ppm.

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Test Result

NFC-A

Test status	Frequency 13.56MHz				Tolerance (MHz)			
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/3.87 V	13.559340	13.559346	13.559345	13.559347	0.000660	0.000654	0.000655	0.000653
-10°C/3.87 V	13.559333	13.559338	13.559335	13.559338	0.000667	0.000662	0.000665	0.000662
0°C/3.87 V	13.559332	13.559333	13.559331	13.559329	0.000668	0.000667	0.000669	0.000671
10°C/3.87 V	13.559327	13.559332	13.559326	13.559325	0.000673	0.000668	0.000674	0.000675
20°C/3.87V	13.559326	13.559332	13.559324	13.559323	0.000674	0.000668	0.000676	0.000677
30°C/3.87 V	13.559324	13.559328	13.559323	13.559320	0.000676	0.000672	0.000677	0.000680
40°C/3.87V	13.559321	13.559318	13.559323	13.559318	0.000679	0.000682	0.000677	0.000682
50°C/3.6 V	13.559315	13.559314	13.559321	13.559317	0.000685	0.000686	0.000679	0.000683
20°C/4.45 V	13.559306	13.559307	13.559318	13.559309	0.000694	0.000693	0.000682	0.000691
20°C/4.45 V	13.559299	13.559307	13.559315	13.559302	0.000701	0.000693	0.000685	0.000698

Test status	Tolerance (%)				Limit (%)	Conclusion
	1min	2min	5min	10min		
-20°C/3.87 V	0.004868	0.004824	0.004830	0.004819	0.01	PASS
-10°C/3.87 V	0.004917	0.004884	0.004903	0.004883	0.01	PASS
0°C/3.87 V	0.004925	0.004919	0.004937	0.004947	0.01	PASS
10°C/3.87 V	0.004966	0.004926	0.004973	0.004977	0.01	PASS
20°C/3.87V	0.004974	0.004928	0.004985	0.004995	0.01	PASS
30°C/3.87 V	0.004984	0.004954	0.004991	0.005015	0.01	PASS
40°C/3.87V	0.005008	0.005027	0.004994	0.005027	0.01	PASS
50°C/3.6 V	0.005055	0.005058	0.005004	0.005039	0.01	PASS
20°C/4.45 V	0.005119	0.005111	0.005028	0.005098	0.01	PASS
20°C/4.45 V	0.005168	0.005113	0.005054	0.005148	0.01	PASS

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NFC-B

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/3.87 V	13.559350	13.559346	13.559351	13.559341	0.000650	0.000654	0.000649	0.000659
-10°C/3.87 V	13.559350	13.559345	13.559347	13.559333	0.000650	0.000655	0.000653	0.000667
0°C/3.87 V	13.559342	13.559337	13.559343	13.559328	0.000658	0.000663	0.000657	0.000672
10°C/3.87 V	13.559338	13.559331	13.559339	13.559322	0.000662	0.000669	0.000661	0.000678
20°C/3.87V	13.559328	13.559323	13.559331	13.559313	0.000672	0.000677	0.000669	0.000687
30°C/3.87 V	13.559325	13.559319	13.559322	13.559310	0.000675	0.000681	0.000678	0.000690
40°C/3.87V	13.559322	13.559316	13.559313	13.559308	0.000678	0.000684	0.000687	0.000692
50°C/3.6 V	13.559315	13.559314	13.559304	13.559301	0.000685	0.000686	0.000696	0.000699
20°C/4.45 V	13.559314	13.559307	13.559302	13.559296	0.000686	0.000693	0.000698	0.000704
20°C/4.45 V	13.559306	13.559298	13.559293	13.559286	0.000694	0.000702	0.000707	0.000714

Test status	Tolerance (%)				Limit(%)	Conclusion
	1min	2min	5min	10min		
-20°C/3.87 V	0.004792	0.004827	0.004785	0.004859	0.01	PASS
-10°C/3.87 V	0.004794	0.004827	0.004814	0.004918	0.01	PASS
0°C/3.87 V	0.004855	0.004888	0.004844	0.004953	0.01	PASS
10°C/3.87 V	0.004884	0.004930	0.004876	0.005000	0.01	PASS
20°C/3.87V	0.004955	0.004994	0.004935	0.005069	0.01	PASS
30°C/3.87 V	0.004981	0.005019	0.005002	0.005092	0.01	PASS
40°C/3.87V	0.004997	0.005046	0.005070	0.005104	0.01	PASS
50°C/3.6 V	0.005052	0.005057	0.005134	0.005158	0.01	PASS
20°C/4.45 V	0.005057	0.005108	0.005148	0.005193	0.01	PASS
20°C/4.45 V	0.005114	0.005179	0.005213	0.005263	0.01	PASS

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NFC-F

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/3.87 V	13.559336	13.559335	13.559341	13.559344	0.000664	0.000665	0.000659	0.000656
-10°C/3.87 V	13.559330	13.559329	13.559337	13.559341	0.000670	0.000671	0.000663	0.000659
0°C/3.87 V	13.559323	13.559328	13.559335	13.559336	0.000677	0.000672	0.000665	0.000664
10°C/3.87 V	13.559314	13.559327	13.559330	13.559334	0.000686	0.000673	0.000670	0.000666
20°C/3.87V	13.559311	13.559326	13.559327	13.559326	0.000689	0.000674	0.000673	0.000674
30°C/3.87 V	13.559305	13.559325	13.559322	13.559323	0.000695	0.000675	0.000678	0.000677
40°C/3.87V	13.559297	13.559324	13.559318	13.559319	0.000703	0.000676	0.000682	0.000681
50°C/3.6 V	13.559292	13.559318	13.559315	13.559316	0.000708	0.000682	0.000685	0.000684
20°C/4.45 V	13.559285	13.559309	13.559311	13.559309	0.000715	0.000691	0.000689	0.000691
20°C/4.45 V	13.559285	13.559307	13.559302	13.559301	0.000715	0.000693	0.000698	0.000699

Test status	Tolerance (%)				Limit(%)	Conclusion
	1min	2min	5min	10min		
-20°C/3.87 V	0.004899	0.004902	0.004862	0.004838	0.01	PASS
-10°C/3.87 V	0.004944	0.004949	0.004887	0.004861	0.01	PASS
0°C/3.87 V	0.004992	0.004957	0.004904	0.004899	0.01	PASS
10°C/3.87 V	0.005060	0.004963	0.004945	0.004909	0.01	PASS
20°C/3.87V	0.005079	0.004972	0.004963	0.004968	0.01	PASS
30°C/3.87 V	0.005123	0.004975	0.004998	0.004992	0.01	PASS
40°C/3.87V	0.005187	0.004987	0.005030	0.005024	0.01	PASS
50°C/3.6 V	0.005219	0.005029	0.005049	0.005046	0.01	PASS
20°C/4.45 V	0.005270	0.005094	0.005085	0.005099	0.01	PASS
20°C/4.45 V	0.005272	0.005111	0.005150	0.005152	0.01	PASS

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NFC-V

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/3.87 V	13.559341	13.559351	13.559335	13.559337	0.000659	0.000649	0.000665	0.000663
-10°C/3.87 V	13.559334	13.559341	13.559328	13.559335	0.000666	0.000659	0.000672	0.000665
0°C/3.87 V	13.559331	13.559339	13.559324	13.559329	0.000669	0.000661	0.000676	0.000671
10°C/3.87 V	13.559328	13.559336	13.559314	13.559323	0.000672	0.000664	0.000686	0.000677
20°C/3.87V	13.559319	13.559328	13.559312	13.559316	0.000681	0.000672	0.000688	0.000684
30°C/3.87 V	13.559317	13.559325	13.559303	13.559311	0.000683	0.000675	0.000697	0.000689
40°C/3.87V	13.559316	13.559324	13.559297	13.559310	0.000684	0.000676	0.000703	0.000690
50°C/3.6 V	13.559307	13.559314	13.559288	13.559309	0.000693	0.000686	0.000712	0.000691
20°C/4.45 V	13.559305	13.559310	13.559280	13.559307	0.000695	0.000690	0.000720	0.000693
20°C/4.45 V	13.559295	13.559302	13.559277	13.559300	0.000705	0.000698	0.000723	0.000700

Test status	Tolerance (%)				Limit(%)	Conclusion
	1min	2min	5min	10min		
-20°C/3.87 V	0.004861	0.004789	0.004906	0.004887	0.01	PASS
-10°C/3.87 V	0.004908	0.004856	0.004953	0.004908	0.01	PASS
0°C/3.87 V	0.004936	0.004871	0.004985	0.004950	0.01	PASS
10°C/3.87 V	0.004959	0.004898	0.005056	0.004994	0.01	PASS
20°C/3.87V	0.005022	0.004958	0.005075	0.005047	0.01	PASS
30°C/3.87 V	0.005034	0.004976	0.005141	0.005078	0.01	PASS
40°C/3.87V	0.005041	0.004989	0.005181	0.005087	0.01	PASS
50°C/3.6 V	0.005109	0.005062	0.005253	0.005095	0.01	PASS
20°C/4.45 V	0.005127	0.005090	0.005307	0.005112	0.01	PASS
20°C/4.45 V	0.005197	0.005144	0.005334	0.005161	0.01	PASS

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5.3. Radiates Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

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;

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.

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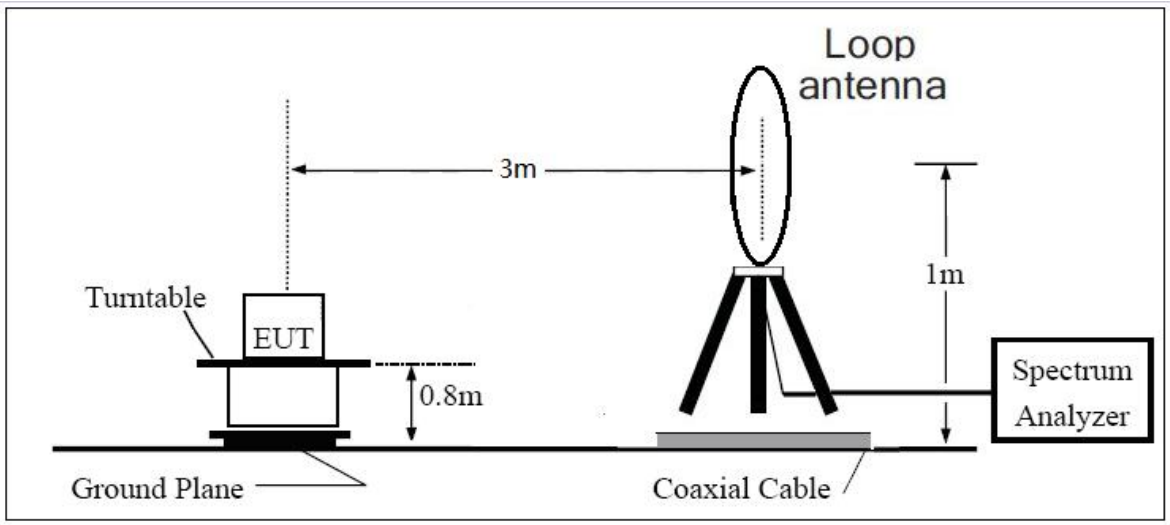
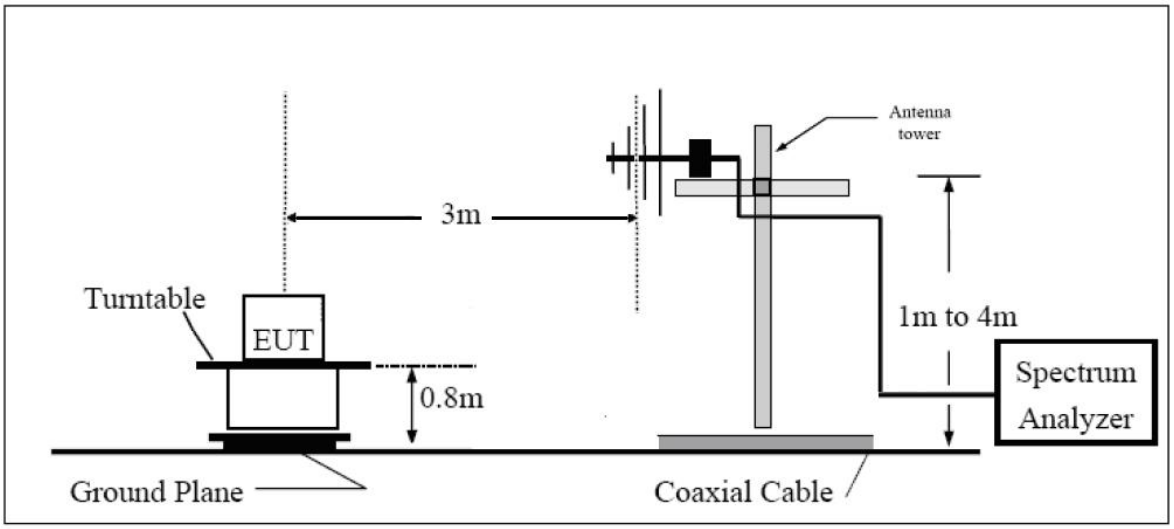
Test setup

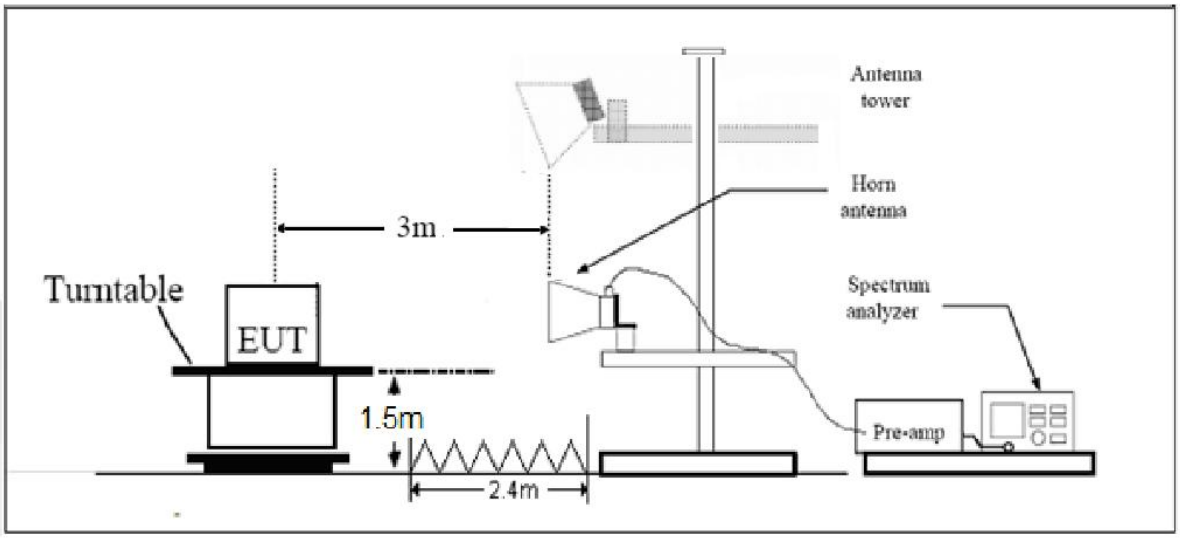
9kHz~~~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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

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

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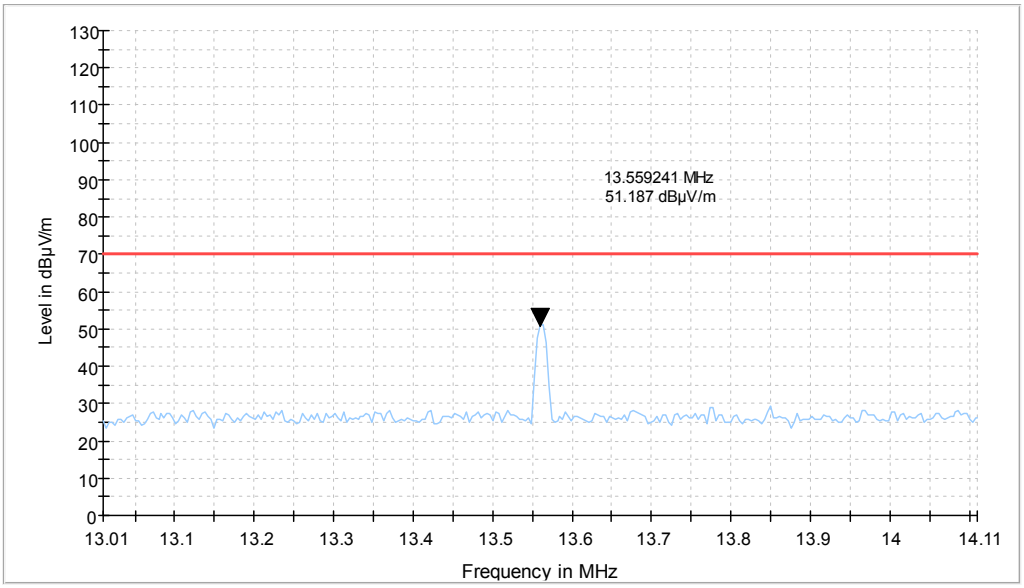
Test result

The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A font (dB噴/m)in the test plot =(level in dB μ V/m)

In-band



Radiates Emission from 13.01MHz to 14.11MHz

Note: This graph displays the maximum values of horizontal and vertical by software

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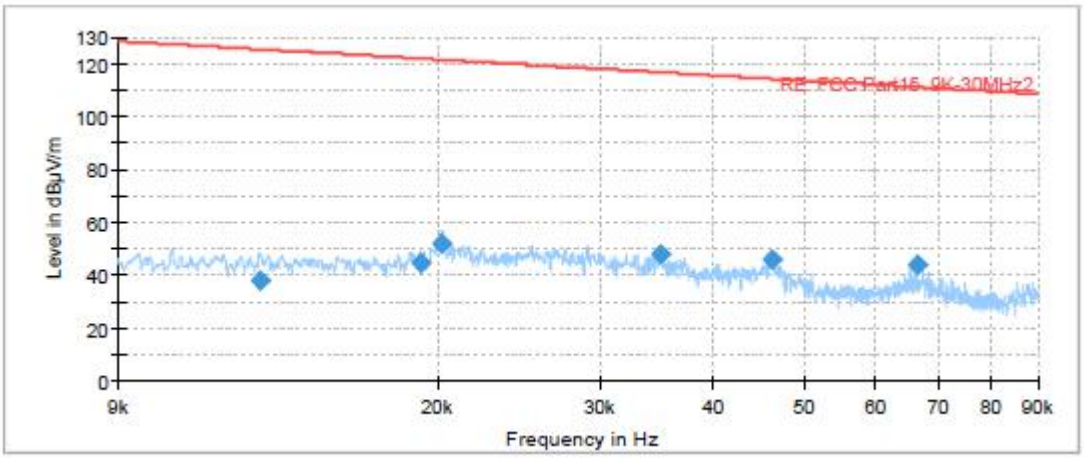
Out-of-band

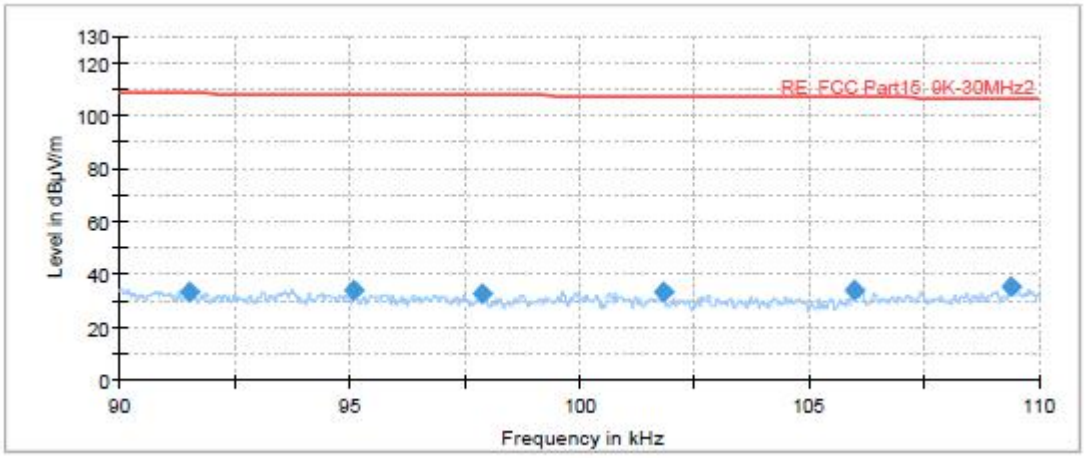
The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

The following graphs display the maximum values of horizontal and vertical by software.

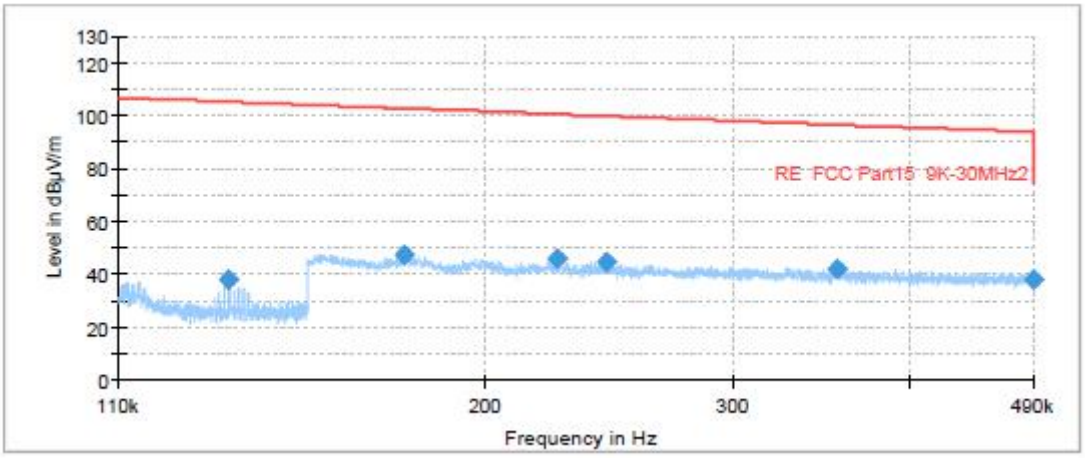
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.



Radiates Emission from 9kHz to 90kHz



Radiates Emission from 90kHz to 110kHz



Radiates Emission from 110kHz to 490kHz

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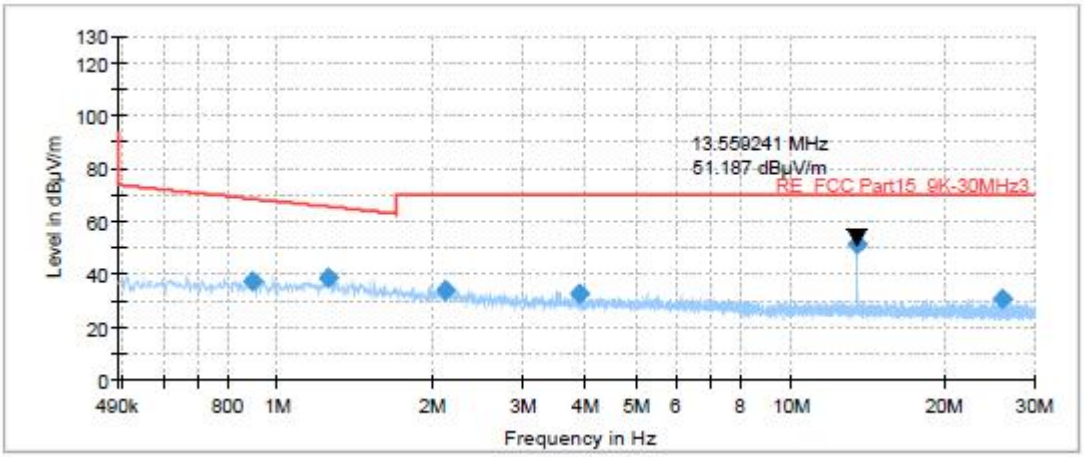
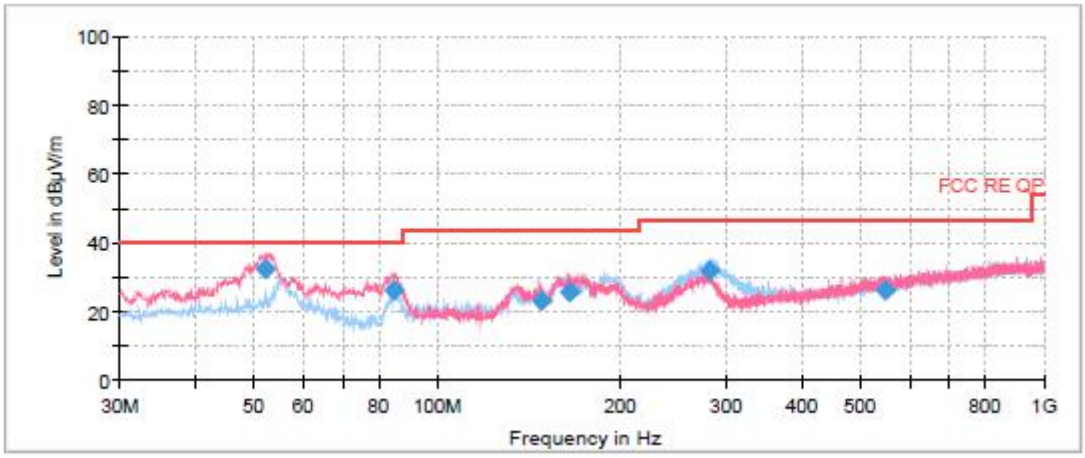


Radiates Emission from 490kHz to 30MHz



Radiates Emission from 30MHz to 1GHz

Note: This graph displays the maximum values of horizontal and vertical by software

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Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
52.026250	32.56	100.0	V	296.0	13.6	7.44	40.00
84.606250	26.23	113.0	V	268.0	9.2	13.77	40.00
148.695000	23.17	100.0	V	168.0	9.0	20.33	43.50
164.988750	25.66	100.0	V	142.0	9.9	17.84	43.50
281.470000	32.00	100.0	H	81.0	14.7	14.00	46.00
547.853750	26.23	100.0	V	90.0	20.0	19.77	46.00

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5.4. Conducted Emission

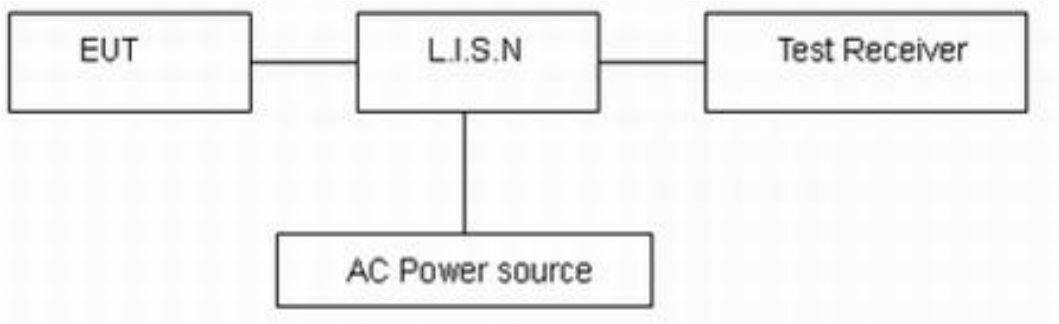
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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 μH/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(dBμV)	
	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.

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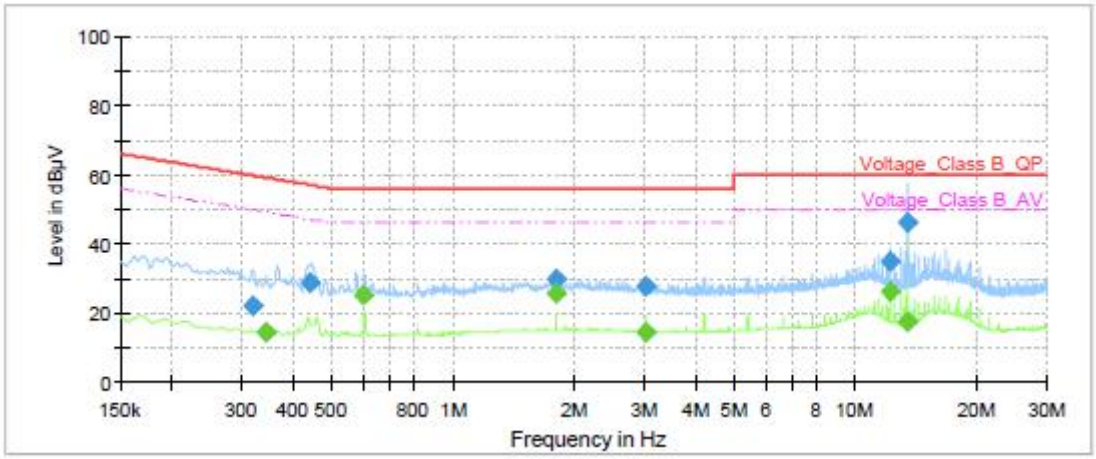
Test Results:

The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Following plots, Blue trace uses the peak detection and Green trace uses the average detection.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.32	22.08	---	59.74	37.66	70.0	9.000	L1	ON	21
0.34	---	14.16	49.12	34.96	70.0	9.000	L1	ON	21
0.44	28.74	---	56.97	28.23	70.0	9.000	L1	ON	20
0.60	---	25.31	46.00	20.69	70.0	9.000	L1	ON	20
1.81	---	25.58	46.00	20.42	70.0	9.000	L1	ON	20
1.81	29.82	---	56.00	26.18	70.0	9.000	L1	ON	20
3.01	27.87	---	56.00	28.13	70.0	9.000	L1	ON	19
3.02	---	14.37	46.00	31.63	70.0	9.000	L1	ON	19
12.26	34.95	---	60.00	25.05	70.0	9.000	L1	ON	20
12.26	---	26.16	50.00	23.84	70.0	9.000	L1	ON	20
13.56	---	17.29	50.00	32.71	70.0	9.000	L1	ON	20
13.56	46.28	---	60.00	13.72	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

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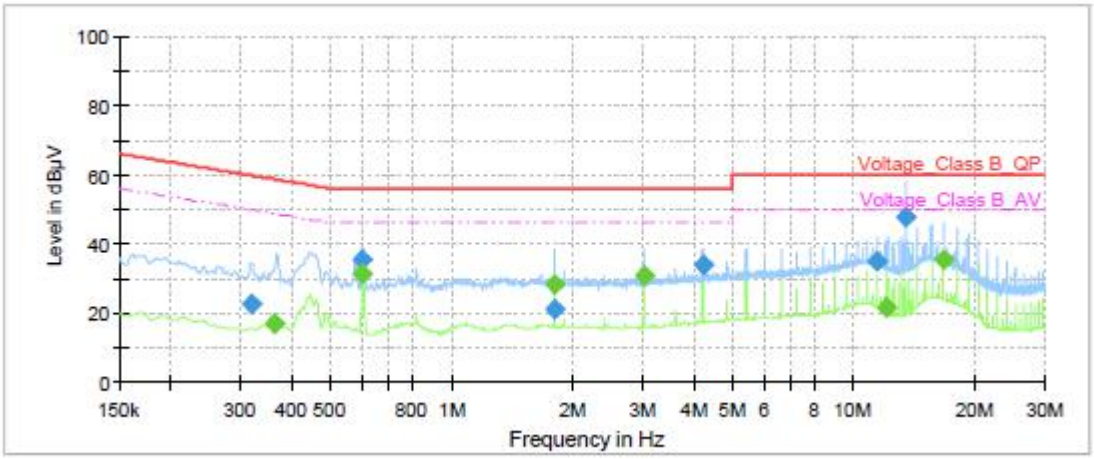

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.32	22.42	---	59.74	37.32	70.0	9.000	N	ON	21
0.36	---	16.68	48.69	32.01	70.0	9.000	N	ON	21
0.60	---	31.15	46.00	14.85	70.0	9.000	N	ON	20
0.60	35.52	---	56.00	20.48	70.0	9.000	N	ON	20
1.81	21.12	---	56.00	34.88	70.0	9.000	N	ON	20
1.81	---	28.08	46.00	17.92	70.0	9.000	N	ON	20
3.02	---	30.97	46.00	15.03	70.0	9.000	N	ON	19
4.22	33.98	---	56.00	22.02	70.0	9.000	N	ON	19
11.44	34.96	---	60.00	25.04	70.0	9.000	N	ON	20
12.06	---	21.68	50.00	28.32	70.0	9.000	N	ON	20
13.56	47.77	---	60.00	12.23	70.0	9.000	N	ON	20
16.89	---	35.22	50.00	14.78	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

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6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
EMI Test Receiver	R&S	ESCI	100948	2021-05-15	2022-05-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
EMI Test Receiver	R&S	ESR	101667	2021-05-16	2022-05-15
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	Agilent	N9020A	MY52330084	2021-05-15	2022-05-14
TEMPERATURE CHAMBER	WEISS	VT4002	582261194500 10	2021-05-15	2022-05-14
Software	R&S	EMC32	9.26.0	/	/

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

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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