



RF TEST REPORT

Applicant	Mercado Libre SRL
FCC ID	2A5U9-MP200
Product	Mobile POS
Brand	MercadoPago
Model	MP200
Report No.	R2203A0264-R2
Issue Date	August 8, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2021)**. 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 20, 2022 ~ August 5, 2022			
Date of Sample Received: July 16, 2022			
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.			



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 **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)

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: Building 3, No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Mercado Libre SRL
Applicant address	Caseros 3039, Buenos Aires, Argentina Buenos Aires 1264 ARGENTINA
Manufacturer	Dspread Technology (Beijing) Inc.
Manufacturer address	Rm.407, b12c. #10 (Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, China,100015

2.2. General information

EUT Description		
Model	MP200	
SN	02201022022011000084	
Hardware Version	1.0	
Software Version	1.0.1	
Power Supply	Battery	
Antenna Type	Internal Antenna	
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)	
Test Mode	NFC-A	NFC-B
Modulation Type	ASK	ASK, BPSK
Operating Frequency Range(s)	13.56MHz	
Rated Power Supply Voltage	3.70V	
Operating Voltage	Minimum: 3.65V Maximum: 4.20V	
Operating Temperature	Lowest: -0°C Highest: +45°C	
Testing Temperature	Lowest: -20°C Highest: +50°C	
EUT Accessory		
Battery	Manufacturer: Beijing Guocai Huayang Technology Co., Ltd. Model: GCYH601539	
USB Cable 1	Manufacturer: JiangXi JieYe Electronics Co., Ltd. Model: JY-C15-09 100cm Cable, Shielded	
USB Cable 2	Manufacturer: SHENZHEN LITKCONN TECHNOLOGY CO., LTD Model: ZY-1130018 100cm Cable, Shielded	
Note: The EUT is sent from the applicant to 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 (2021)

ANSI C63.10-2013

Reference standard:

FCC CFR47 Part 2 (2021)



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

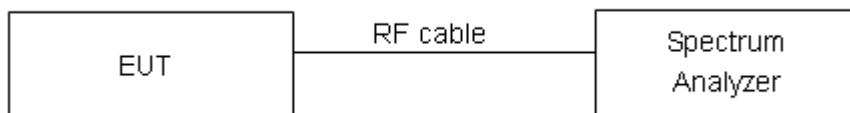
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

Test Results

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

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 -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.

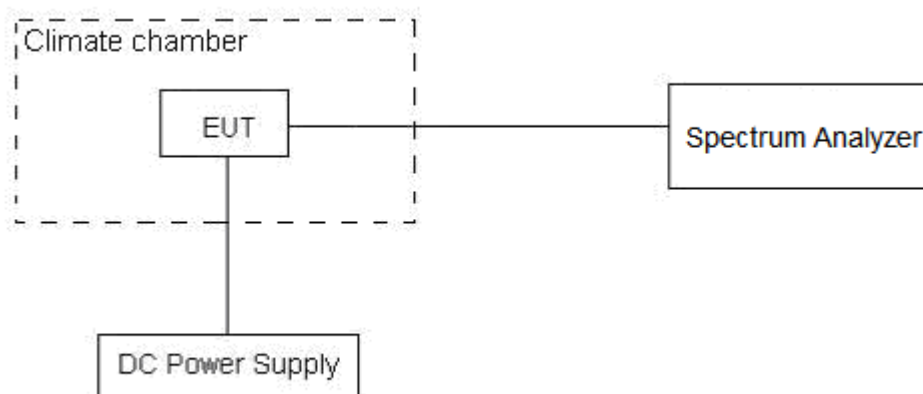
2. Frequency Stability (Voltage Variation)

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 3.65 V and 4.20 V, with a nominal voltage of 3.70V.

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	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

Below 30MHz

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

Above 30MHz,

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

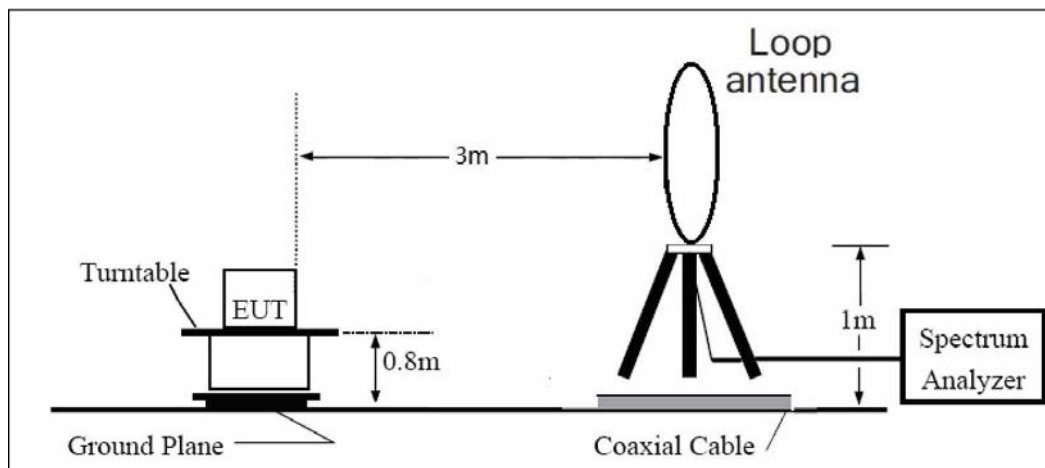
In-band

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

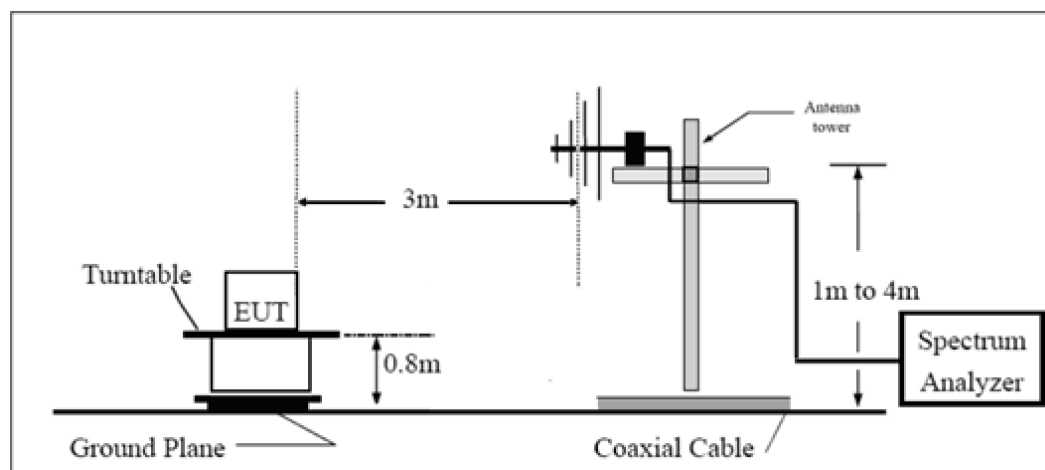
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the other antennas are vertical and horizontal.

Test setup

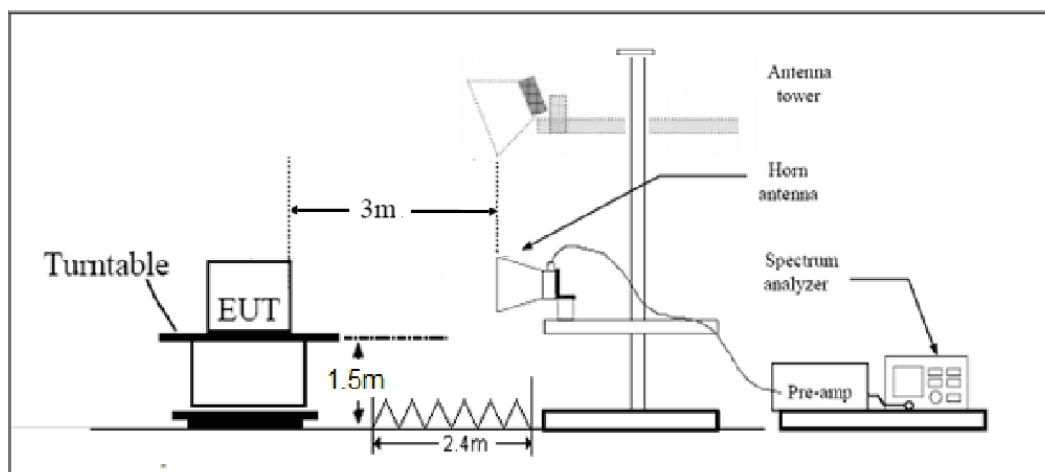
9KHz~ 30MHz



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(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 $\lambda/2\pi$ 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	Pressure
23°C ~25°C	45%~50%	101.5kPa

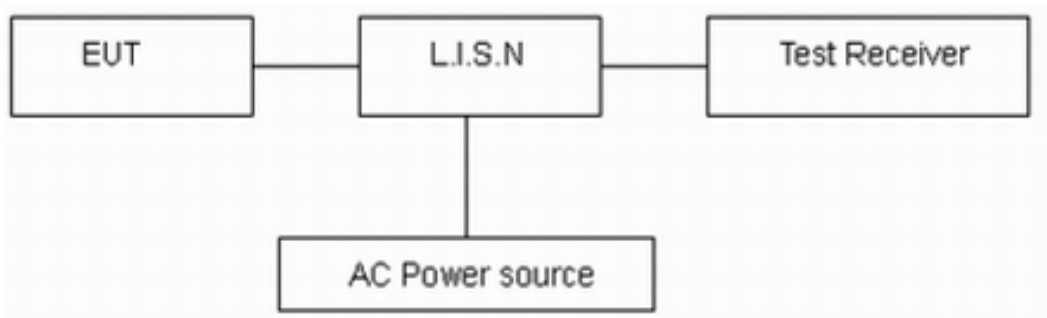
Methods of Measurement

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 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

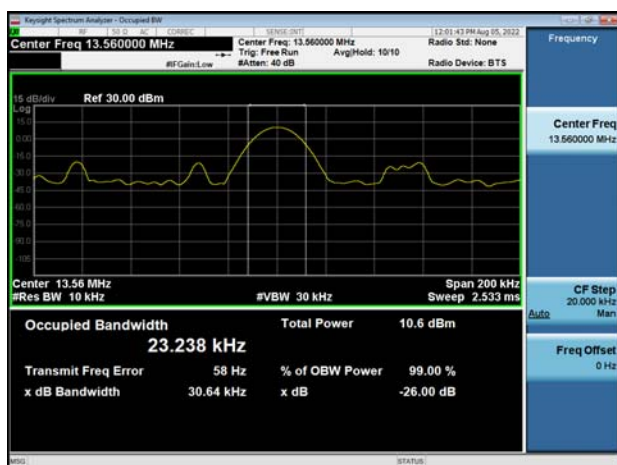
NFC-A

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	23.238	30.640	PASS

NFC-B

Carrier frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	Conclusion
13.56MHz	23.174	30.300	PASS

NFC-A



NFC-B





6.2. Frequency Stability

NFC-A

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/3.7 V	13.559345	13.559344	13.559349	13.559336	0.000655	0.000656	0.000651	0.000664
-10°C/3.7 V	13.559342	13.559341	13.559345	13.559333	0.000658	0.000659	0.000655	0.000667
0°C/3.7 V	13.559335	13.559333	13.559344	13.559331	0.000665	0.000667	0.000656	0.000669
10°C/3.7 V	13.559329	13.559328	13.559336	13.559330	0.000671	0.000672	0.000664	0.000670
20°C/3.7 V	13.559327	13.559319	13.559335	13.559321	0.000673	0.000681	0.000665	0.000679
30°C/3.7 V	13.559318	13.559318	13.559330	13.559315	0.000682	0.000682	0.000670	0.000685
40°C/3.7 V	13.559312	13.559309	13.559327	13.559313	0.000688	0.000691	0.000673	0.000687
50°C/3.7 V	13.559307	13.559304	13.559324	13.559309	0.000693	0.000696	0.000676	0.000691
20°C/3.65 V	13.559300	13.559303	13.559319	13.559302	0.000700	0.000697	0.000681	0.000698
20°C/4.2 V	13.559292	13.559301	13.559314	13.559301	0.000708	0.000699	0.000686	0.000699

Test status	Tolerance (%)				Limit (%)	Conclusion
	1min	2min	5min	10min		
-20°C/3.7 V	0.004831	0.004837	0.004798	0.004895	0.01	PASS
-10°C/3.7 V	0.004852	0.004859	0.004828	0.004918	0.01	PASS
0°C/3.7 V	0.004901	0.004917	0.004834	0.004937	0.01	PASS
10°C/3.7 V	0.004951	0.004953	0.004894	0.004942	0.01	PASS
20°C/3.7 V	0.004966	0.005023	0.004902	0.005004	0.01	PASS
30°C/3.7 V	0.005033	0.005027	0.004940	0.005048	0.01	PASS
40°C/3.7 V	0.005071	0.005096	0.004962	0.005068	0.01	PASS
50°C/3.7 V	0.005114	0.005136	0.004983	0.005097	0.01	PASS
20°C/3.65 V	0.005165	0.005140	0.005025	0.005150	0.01	PASS
20°C/4.2 V	0.005221	0.005154	0.005060	0.005153	0.01	PASS



NFC-B

Test status	Frequency				Tolerance (MHz)			
	13.56MHz							
	1min	2min	5min	10min	1min	2min	5min	10min
-20°C/3.7 V	13.559345	13.559339	13.559339	13.559339	0.000655	0.000661	0.000661	0.000661
-10°C/3.7 V	13.559342	13.559333	13.559332	13.559334	0.000658	0.000667	0.000668	0.000666
0°C/3.7 V	13.559333	13.559330	13.559325	13.559330	0.000667	0.000670	0.000675	0.000670
10°C/3.7 V	13.559330	13.559320	13.559324	13.559321	0.000670	0.000680	0.000676	0.000679
20°C/3.7 V	13.559325	13.559315	13.559316	13.559320	0.000675	0.000685	0.000684	0.000680
30°C/3.7 V	13.559316	13.559306	13.559311	13.559317	0.000684	0.000694	0.000689	0.000683
40°C/3.7 V	13.559313	13.559300	13.559308	13.559313	0.000687	0.000700	0.000692	0.000687
50°C/3.7 V	13.559310	13.559290	13.559304	13.559308	0.000690	0.000710	0.000696	0.000692
20°C/3.65 V	13.559300	13.559286	13.559296	13.559304	0.000700	0.000714	0.000704	0.000696
20°C/4.2 V	13.559293	13.559281	13.559287	13.559302	0.000707	0.000719	0.000713	0.000698

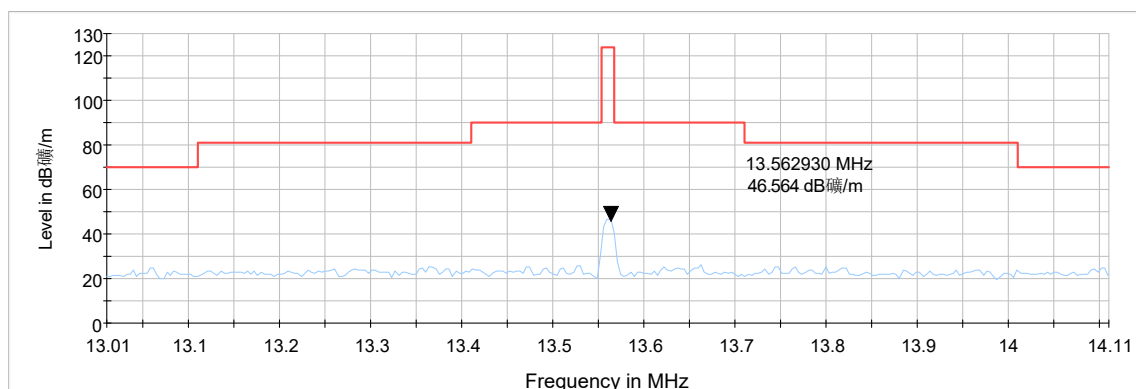
Test status	Tolerance (%)				Limit (%)	Conclusion
	1min	2min	5min	10min		
-20°C/3.7 V	0.004834	0.004874	0.004872	0.004876	0.01	PASS
-10°C/3.7 V	0.004855	0.004916	0.004925	0.004912	0.01	PASS
0°C/3.7 V	0.004916	0.004939	0.004974	0.004939	0.01	PASS
10°C/3.7 V	0.004940	0.005011	0.004984	0.005009	0.01	PASS
20°C/3.7 V	0.004977	0.005051	0.005041	0.005012	0.01	PASS
30°C/3.7 V	0.005045	0.005118	0.005078	0.005038	0.01	PASS
40°C/3.7 V	0.005065	0.005165	0.005107	0.005063	0.01	PASS
50°C/3.7 V	0.005088	0.005236	0.005131	0.005100	0.01	PASS
20°C/3.65 V	0.005160	0.005265	0.005194	0.005136	0.01	PASS
20°C/4.2 V	0.005214	0.005306	0.005261	0.005147	0.01	PASS

6.3. Radiates Emission

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 symbol ($\text{dB}\mu\text{V}/\text{m}$) in the test plot below means (dBuV/m)

In-band



Radiates Emission from 13.01MHz to 14.11MHz

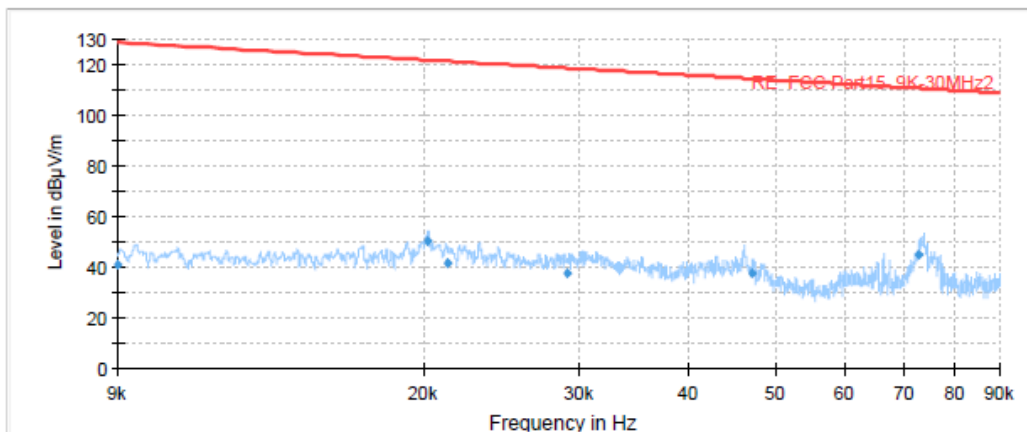
Note: This graph displays the maximum values of horizontal and vertical by software

Out-of-band

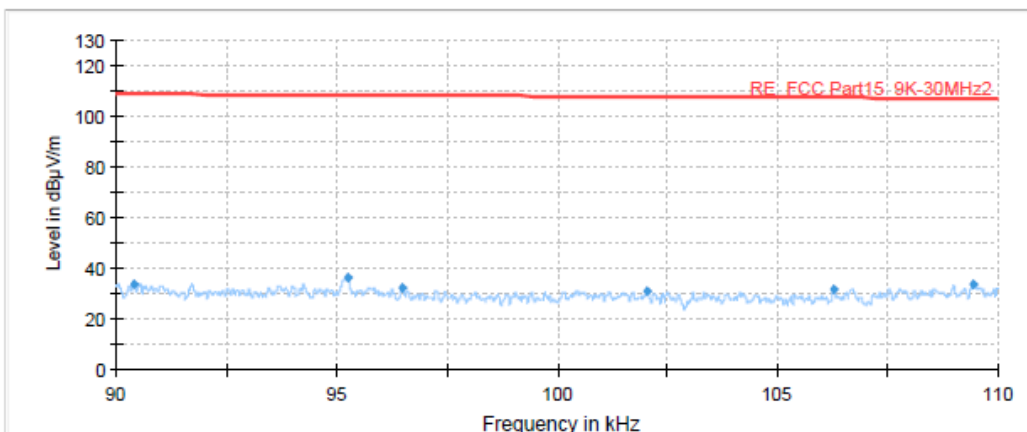
The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

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

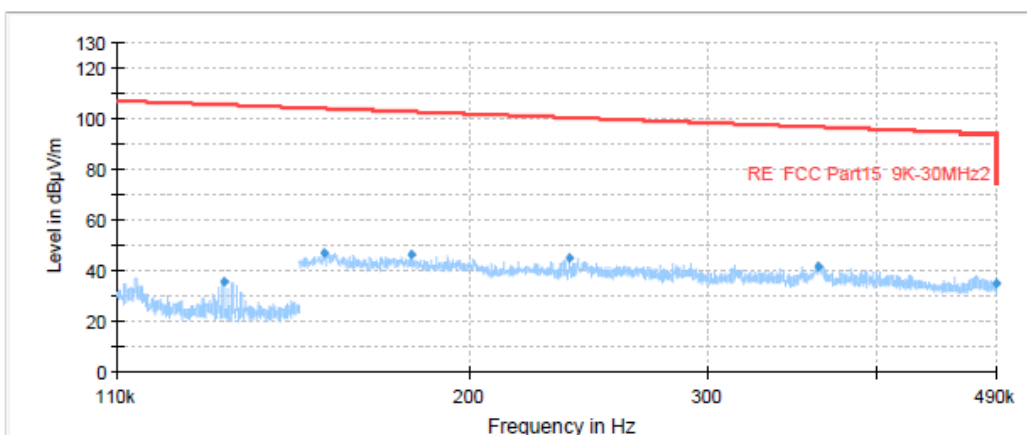
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.



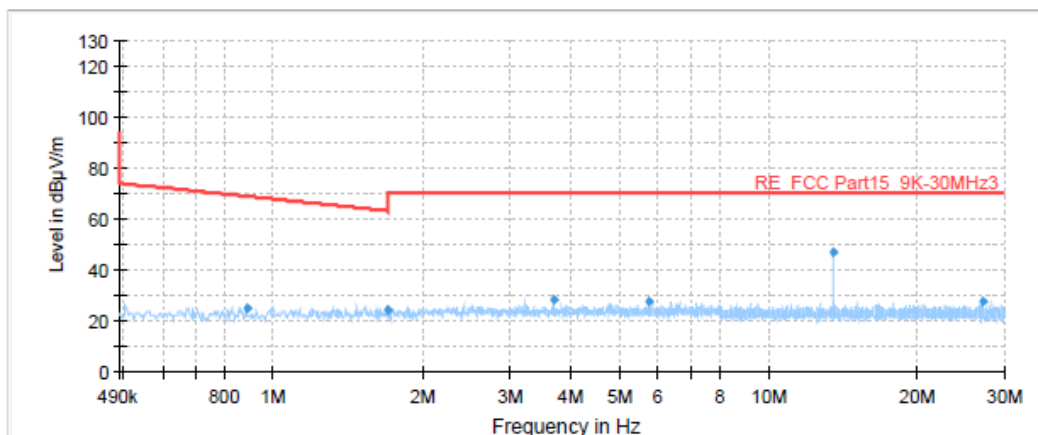
Radiates Emission from 9kHz to 90kHz



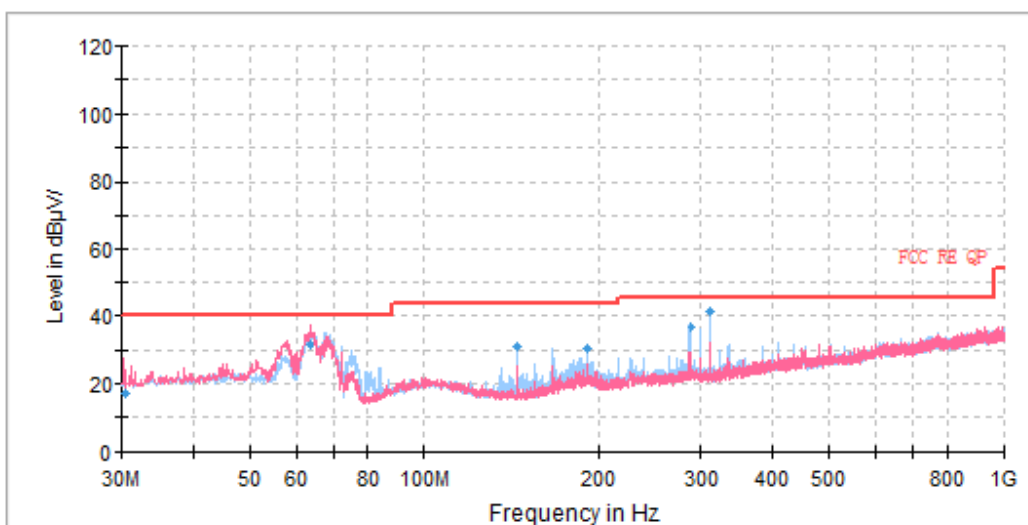
Radiates Emission from 90kHz to 110kHz



Radiates Emission from 110kHz to 490kHz



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

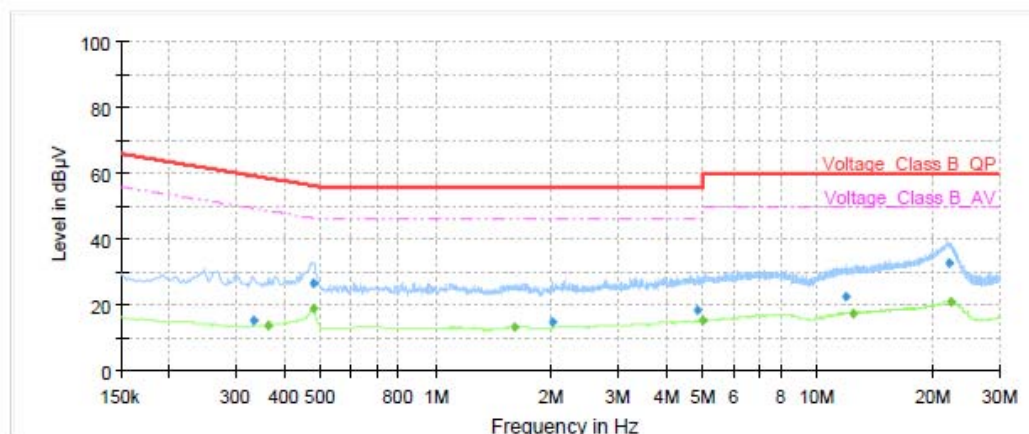
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.52	17.16	118.0	V	120.00	13	22.84	40.00
63.34	31.69	125.0	V	149.00	14	8.31	40.00
144.02	30.99	175.0	H	28.00	10	12.51	43.50
191.99	30.81	100.0	H	222.00	13	12.69	43.50
287.98	36.95	111.0	H	141.00	16	9.05	46.00
311.99	41.13	100.0	H	36.00	16	4.87	46.00

6.4. Conducted Emission

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.

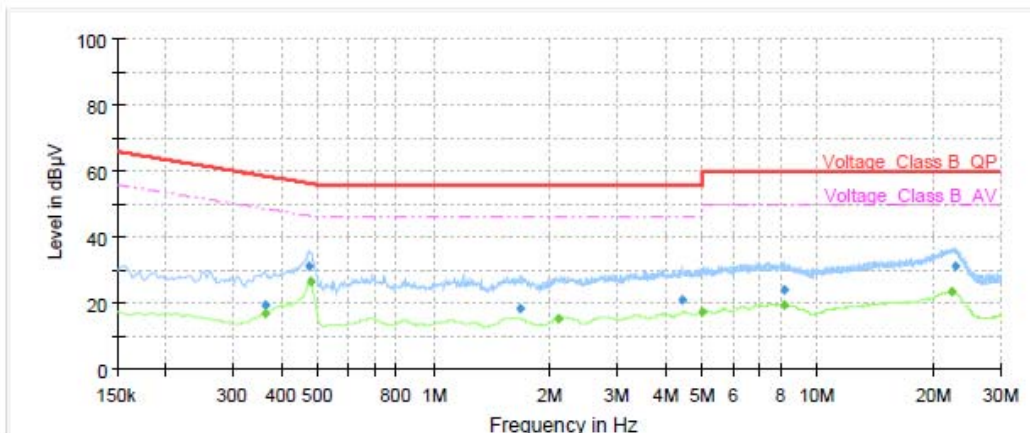
Note: A symbol ($\text{dB}\mu\text{V}/$) in the test plot below means (dBuV/m)



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.33	15.34	---	59.40	44.06	1000.00	9.000	L1	ON	21
0.36	---	13.91	48.69	34.78	1000.00	9.000	L1	ON	21
0.48	---	18.89	46.40	27.51	1000.00	9.000	L1	ON	20
0.48	26.63	---	56.37	29.74	1000.00	9.000	L1	ON	20
1.61	---	13.26	46.00	32.74	1000.00	9.000	L1	ON	20
2.02	14.88	---	56.00	41.12	1000.00	9.000	L1	ON	20
4.86	18.26	---	56.00	37.74	1000.00	9.000	L1	ON	19
5.00	---	15.40	46.00	30.60	1000.00	9.000	L1	ON	19
11.82	22.56	---	60.00	37.44	1000.00	9.000	L1	ON	20
12.40	---	17.49	50.00	32.51	1000.00	9.000	L1	ON	20
22.14	33.02	---	60.00	26.98	1000.00	9.000	L1	ON	20
22.29	---	21.25	50.00	28.75	1000.00	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.36	---	16.85	48.69	31.84	1000.00	9.000	N	ON	21
0.36	19.24	---	58.69	39.45	1000.00	9.000	N	ON	21
0.47	31.48	---	56.44	24.96	1000.00	9.000	N	ON	20
0.48	---	26.70	46.40	19.70	1000.00	9.000	N	ON	20
1.68	18.47	---	56.00	37.53	1000.00	9.000	N	ON	20
2.10	---	15.32	46.00	30.68	1000.00	9.000	N	ON	20
4.44	21.27	---	56.00	34.73	1000.00	9.000	N	ON	19
5.00	---	17.42	46.00	28.58	1000.00	9.000	N	ON	19
8.21	---	19.58	50.00	30.42	1000.00	9.000	N	ON	20
8.21	24.22	---	60.00	35.78	1000.00	9.000	N	ON	20
22.29	---	23.50	50.00	26.50	1000.00	9.000	N	ON	20
22.71	31.05	---	60.00	28.95	1000.00	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
RF switch	MWRFTTEST	MW100-RFCB	A00017-2	2021-12-12	2022-12-11
Power sensor	R&S	OSP-B157W8	100924	2021-12-12	2022-12-11
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2022-05-14	2023-05-13
TEMPERATURE CHAMBER	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
RF Cable	Agilent	SMA 15cm	0001	/	/
EMI Test Receiver	R&S	ESR	102389	2022-05-25	2023-05-24
Signal Analyzer	R&S	FSV40	100816	2021-12-12	2022-12-11
TRILOG Broadband Antenna	SCHWARZBECK	9163	1023	2020-05-05	2023-05-04
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2020-12-13	2022-12-12
EMI Test Receiver	R&S	ESR	101667	2022-05-25	2023-05-24
Software	R&S	EMC32	10.35.10	/	/

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



ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.