

# RADIO PERFORMANCE TEST REPORT (CLASS II PERMISSIVE CHANGE)

Test Report No. : OT-228-RWD-025  
Reception No. : 2208002471  
Applicant : Samsung Electronics Co., Ltd.  
Address : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058  
Manufacturer : Samsung Electronics Co., Ltd.  
Address : Yen Phong 1 Industrial park, Yen Phong District Bac Ninh Province, VIETNAM  
Type of Equipment : WIRELESS CHARGER  
FCC ID. : A3LEPP6300  
Model Name : EP-P6300  
Multiple Model Name : N/A  
Serial number : N/A  
Total page of Report : 105 pages (including this page)  
Date of Incoming : August 05, 2022  
Date of issue : August 26, 2022

## SUMMARY

The equipment complies with the regulation; **FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

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**Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-228-RWD-025	August 26, 2022	Additions and Changes to Parts Manufacturers. (Class II Permissive Change)	All

## 1. VERIFICATION OF COMPLIANCE

APPLICANT : Samsung Electronics Co., Ltd.  
ADDRESS : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058  
CONTACT PERSON : Jenni, Chun / General Manager  
TELEPHONE NO : +973-808-6375  
FCC ID : A3LEPP6300  
MODEL NAME : EP-P6300  
BRAND NAME : -  
SERIAL NUMBER : N/A  
DATE : August 26, 2022

EQUIPMENT CLASS	<b>DCD – Part 15 Low Power Transmitter Below 1705 kHz</b>
KIND OF EQUIPMENT	WIRELESS CHARGER
THIS REPORT CONCERNS	Class II Permissive Change
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC&IC RULES PART(S)	FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. The equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. TEST SUMMARY

### 2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.209, 15.209(a)	Radiated emission, Spurious Emission and Field Strength of Fundamental	Met the Limit / PASS
15.207	Transmitter AC Power Line Conducted Emission	Met the Limit / PASS

### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

### 2.3 Related Submittal(s) / Grant(s)

Class II Permissive Change

Following modification(s) is/are made on the product, which was already granted on October 05, 2020

- Additions and Changes to Parts Manufacturers.

Before change.
1. DCDC(MP1497S/MPS) 2. N-ch FET(NX138BKW/NEXPERIA) 3. Connector(HY24-AB1005/JNTC) 4. MCU(A94B428KUN-OCF01(T)/PKG VENDOR: HuatianTechnology (xi 'an) Co., Ltd
After change.
1. DCDC(MP1497S/MPS, RT7296BGJ8F/RICHTEK) 2. N-ch FET(NX138BKW/NEXPERIA, MMFTN138KW/Semtech) 3. Connector(HY24-AB1005/JNTC, UAF05-24320-PC08/LCN) 4. MCU (A94B428KUN-OCF01(T)/PKG VENDOR: ChizhouHisemiElectronics Technology Co., Ltd., TongfuMicroelectronicsCo., Ltd.)

## 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209.

## 2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.10: 2020 at a distance of 3 m from EUT to the antenna.

## 2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

### - Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

### 3. GENERAL INFORMATION

#### 3.1 Product Description

The Samsung Electronics Co., Ltd., Model: EP-P6300 (referred to as the EUT in this report) is an WIRELESS CHARGER. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	WIRELESS CHARGER
OPERATING FREQUENCY	119.0 kHz ~ 122 kHz (Antenna 1, Antenna 2, Antenna 3, Antenna 4, Antenna 5, Antenna 6), 126.2 kHz ~ 129.2 kHz (Antenna 1, Antenna 2, Antenna 3, Antenna 4, Antenna 5, Antenna 6), 136.5 kHz ~ 139.5 kHz (Antenna 1, Antenna 2, Antenna 3), 144.5 kHz ~ 147.5 kHz (Antenna 4, Antenna 5, Antenna 6, Antenna 7)
RATED RF OUTPUT POWER	95.6 dB $\mu$ V/m
OPERATION MODE	2 W, 4.5 W, 7.5 W, 9 W
ANTENNA TYPE	Loop Coil Antenna
MODULATION	ASK
RATED SUPPLY VOLTAGE	DC 9.0 V

#### 3.2 Accessories Description

DEVICE	MODEL	MANUFACTURER	SERIAL	SETTINH SPECIFICATION	
				WATT	FREQUENCY
Mobile 1 (Galaxy S21)	SM-G991U	SAMSUNG	R3CNA03HREF	4.5W / 7.5W / 15W	138.0 kHz / 145.5 kHz
			R3CNA03J79W		
Mobile 2 (Galaxy Note 10)	SM-N970U	SAMSUNG	R38M60EDYJT	4.5W / 9 W	120.5 kHz
			R38M60ANP7Y		
Earphones (Earbuds)	SM-R190	SAMSUNG	RF2R10A8PVW	2 W	127.7 kHz
			RF2R10CDPDN		
Watches (Galaxy Watch Active2)	SM-R830	SAMSUNG	RFAM91TCP0Y	2 W	145.5 kHz

#### 3.3 Alternative type(s)/model(s); also covered by this test report.

- None

### 4. EUT MODIFICATIONS

- None

## 5. SYSTEM TEST CONFIGURATION

### 5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	EP-P6300_07	N/A
Travel Adapter	Samsung Electronics Co., Ltd.	EP-TA800	N/A
Coil Antenna (1) ~ (7)	N/A	N/A	N/A

### 5.2 Peripheral equipment

- None

### 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set as following condition.

Mode	Operating Frequency	Tx. Frequency	Set. Watt	Acc.
Mode 1	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
	/ 119.0 kHz ~ 122.0 kHz	/ 120.5 kHz	/ 4.5 W	/ Modile 2 (Galaxy Note 10)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 2 W	/ Watches (Galaxy Watch Active2)
Mode 2	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 4.5 W	/ Modile 1 (Galaxy S21)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 2 W	/ Watches (Galaxy Watch Active2)
Mode 3	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 7.5 W	/ Modile 1 (Galaxy S21)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 2 W	/ Watches (Galaxy Watch Active2)
Mode 4	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
	/ 119.0 kHz ~ 122.0 kHz	/ 120.5 kHz	/ 9 W	/ Modile 2 (Galaxy Note 10)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 2 W	/ Watches (Galaxy Watch Active2)
Mode 5	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 9 W	/ Modile 1 (Galaxy S21)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 2 W	/ Watches (Galaxy Watch Active2)
Mode 6	119.0 kHz ~ 122.0 kHz	120.5 kHz	4.5 W	Modile 2 (Galaxy Note 10)
	/ 126.2 kHz ~ 129.2 kHz	/ 127.7 kHz	/ 2 W	/ Earphones (Earbuds)
	/ 144.5 kHz ~ 147.5 kHz	/ 145.5 kHz	/ 2 W	/ Watches (Galaxy Watch Active2)

Mode 7	136.5 kHz ~ 139.5 kHz / 126.2 kHz ~ 129.2 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 127.7 kHz / 145.5 kHz	4.5 W / 2 W / 2 W	Modile 1 (Galaxy S21) / Earphones (Earbuds) / Watches (Galaxy Watch Active2)
Mode 8	136.5 kHz ~ 139.5 kHz / 126.2 kHz ~ 129.2 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 127.7 kHz / 145.5 kHz	7.5 W / 2 W / 2 W	Modile 1 (Galaxy S21) / Earphones (Earbuds) / Watches (Galaxy Watch Active2)
Mode 9	119.0 kHz ~ 122.0 kHz / 126.2 kHz ~ 129.2 kHz / 144.5 kHz ~ 147.5 kHz	120.5 kHz / 127.7 kHz / 145.5 kHz	9 W / 2 W / 2 W	Modile 2 (Galaxy Note 10) / Earphones (Earbuds) / Watches (Galaxy Watch Active2)
Mode 10	136.5 kHz ~ 139.5 kHz / 126.2 kHz ~ 129.2 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 127.7 kHz / 145.5 kHz	9 W / 2 W / 2 W	Modile 1 (Galaxy S21) / Earphones (Earbuds) / Watches (Galaxy Watch Active2)
Mode 11	119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	120.5 kHz / 145.5 kHz / 145.5 kHz	4.5 W / 7.5 W / 2 W	Modile 2 (Galaxy Note 10) / Modile 1 (Galaxy S21) / Watches (Galaxy Watch Active2)
Mode 12	119.0 kHz ~ 122.0 kHz / 119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz	120.5 kHz / 120.5 kHz / 145.5 kHz	4.5 W / 9 W / 2 W	Modile 2 (Galaxy Note 10) / Modile 2 (Galaxy Note 10) / Watches (Galaxy Watch Active2)
Mode 13	119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	120.5 kHz / 145.5 kHz / 145.5 kHz	4.5 W / 9 W / 2 W	Modile 2 (Galaxy Note 10) / Modile 1 (Galaxy S21) / Watches (Galaxy Watch Active2)
Mode 14	136.5 kHz ~ 139.5 kHz / 119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 120.5 kHz / 145.5 kHz	7.5 W / 4.5 W / 2 W	Modile 1 (Galaxy S21) / Modile 2 (Galaxy Note 10) / Watches (Galaxy Watch Active2)
Mode 15	119.0 kHz ~ 122.0 kHz / 119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz	120.5 kHz / 120.5 kHz / 145.5 kHz	9 W / 4.5 W / 2 W	Modile 2 (Galaxy Note 10) / Modile 2 (Galaxy Note 10) / Watches (Galaxy Watch Active2)
Mode 16	144.5 kHz ~ 147.5 kHz / 119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 120.5 kHz / 145.5 kHz	9 W / 4.5 W / 2 W	Modile 1 (Galaxy S21) / Modile 2 (Galaxy Note 10) / Watches (Galaxy Watch Active2)
Mode 17	136.5 kHz ~ 139.5 kHz / 119.0 kHz ~ 122.0 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 120.5 kHz / 145.5 kHz	4.5 W / 9 W / 2 W	Modile 1 (Galaxy S21) / Modile 2 (Galaxy Note 10) / Watches (Galaxy Watch Active2)
Mode 18	136.5 kHz ~ 139.5 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 145.5 kHz / 145.5 kHz	7.5 W / 4.5 W / 2 W	Modile 1 (Galaxy S21) / Modile 1 (Galaxy S21) / Watches (Galaxy Watch Active2)

Mode 19	136.5 kHz ~ 139.5 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 145.5 kHz / 145.5 kHz	4.5 W / 7.5 W / 2 W	Modile 1 (Galaxy S21) / Modile 1 (Galaxy S21) / Watches (Galaxy Watch Active2)
Mode 20	136.5 kHz ~ 139.5 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 145.5 kHz / 145.5 kHz	9 W / 4.5 W / 2 W	Modile 1 (Galaxy S21) / Modile 1 (Galaxy S21) / Watches (Galaxy Watch Active2)
Mode 21	136.5 kHz ~ 139.5 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 145.5 kHz / 145.5 kHz	4.5 W / 9 W / 2 W	Modile 1 (Galaxy S21) / Modile 1 (Galaxy S21) / Watches (Galaxy Watch Active2)
Mode 22	136.5 kHz ~ 139.5 kHz / 144.5 kHz ~ 147.5 kHz / 144.5 kHz ~ 147.5 kHz	138.0 kHz / 145.5 kHz / 145.5 kHz	None	None

for DC 9.0 V.

To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis.

## 5.4 Configuration of Test System

### Line Conducted Test

: The EUT was tested in a charging mode. The EUT was connected to USB and the power of USB was connected to Adapter. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4: 2009 7.3.3 to determine the worse operating conditions.

### Radiated Emission Test

: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

## 5.5 Antenna Requirement

According to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### Antenna Construction:

The antenna of the EUT is a Loop Coil Antenna on the main board in the EUT, so no consideration of replacement by the user.

## 6. PRELIMINARY TEST

### 6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode & Charging Mode	X

### 6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode & Charging Mode	X

## 7. Spurious Emission Test

### 7.1 Regulation

According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency [MHz]	Field strength [ $\mu$ V/m]	Field strength [dB $\mu$ V/m]	Measurement distance [m]
0.009 ~ 0.490	2 400 / F (kHz)	48.52 ~ 13.80	300
0.490 ~ 1.705	24 000 / F (kHz)	33.8 ~ 22.97	30
1.705 ~ 30	30	29.50	30
30 ~ 88	*100	40.00	3
88 ~ 216	*150	43.52	3
216 ~ 960	*200	46.02	3
Above 960	500	53.98	3

\*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., Sections 15.231 and 15.241.

### 7.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 kHz to 1 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 ms in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

### 7.3 Test date

August 05, 2022 ~ August 07, 2022

## 7.4 Test data for Mode 1 (Ant-A : Earphones (127.7 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

### 7.4.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	36.5	19.0	0.2	55.7	-24.3	44.1	68.4
0.027	PK	37.8	19.0	0.2	57.0	-23.0	39.0	62.0
0.051	PK	33.7	19.0	0.2	52.9	-27.1	33.5	60.6
0.077	PK	35.5	19.0	0.3	54.8	-25.2	29.9	55.1
*0.121	PK	68.3	19.0	0.3	87.6	7.6	25.9	18.3
*0.128	PK	68.7	19.0	0.3	88.0	8.0	25.5	17.5
*0.146	PK	40.1	19.0	0.3	59.4	-20.6	24.3	44.9
0.359	PK	50.1	19.0	0.3	69.4	-10.6	16.5	27.1
0.568	PK	35.7	18.9	0.3	54.9	14.9	32.5	17.6
0.837	PK	29.6	18.9	0.2	48.7	8.7	29.1	20.4
1.075	PK	26.2	18.9	0.5	45.6	5.6	27.0	21.4

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
26.955	PK	10.9	20.2	1.5	32.6	-7.4	29.5	36.9

- . \*\* Means Fundamental frequency
- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]
- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]
 
$$= \text{Emission Level at 300m [dB $\mu$ V/m]} - \text{Limit at 30m [dB $\mu$ V/m]}$$
- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz
- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,  
Below 30 MHz

### 7.4.2 Spurious Radiated Emission below 1 GHz

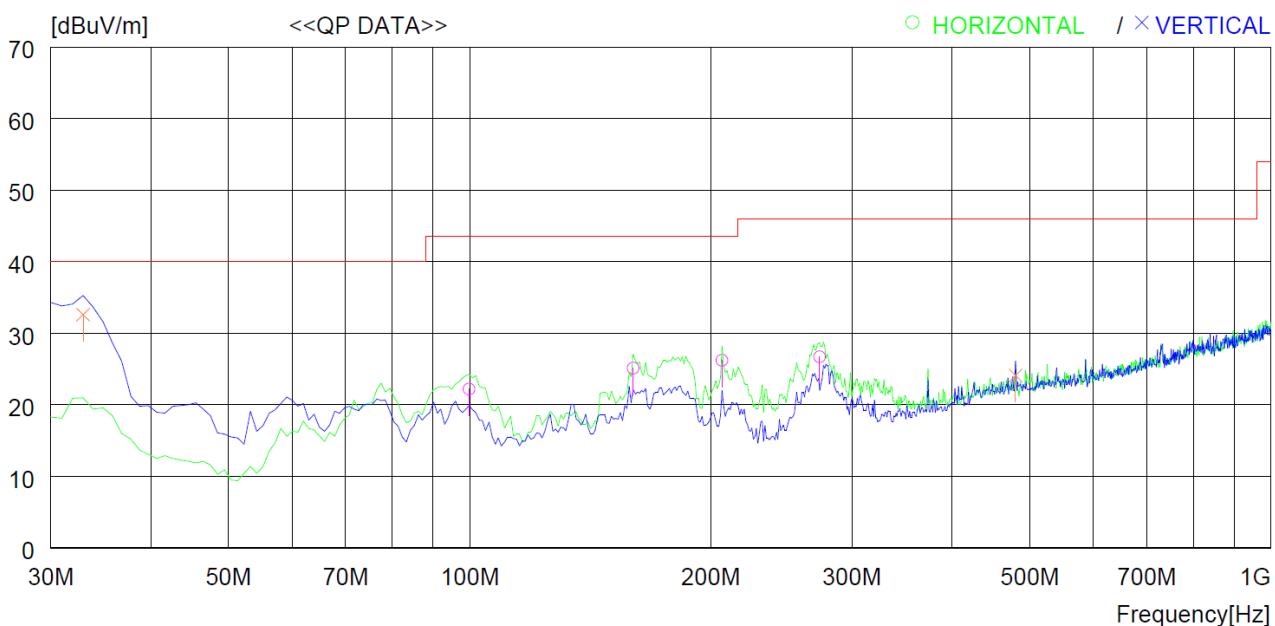
The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	99.840	37.0	15.4	2.9	33.1	22.2	43.5	21.3	400	60
2	159.980	36.7	17.9	3.5	33.0	25.1	43.5	18.4	200	359
3	206.540	39.5	15.7	4.0	33.0	26.2	43.5	17.3	200	105
4	273.470	36.2	18.8	4.6	32.9	26.7	46.0	19.3	100	0
----- Vertical -----										
5	32.910	43.7	20.2	1.8	33.1	32.6	40.0	7.4	100	359
6	480.081	27.6	23.4	6.2	33.1	24.1	46.0	21.9	100	359

## 7.5 Test data for Mode 2 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

### 7.5.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	39.4	19.0	0.2	58.6	-21.4	44.1	65.5
0.031	PK	38.7	19.0	0.2	57.9	-22.1	40.0	62.1
0.041	PK	40.4	19.0	0.2	59.6	-20.4	37.8	58.2
0.073	PK	46.6	19.0	0.2	65.8	-14.2	34.2	48.4
*0.128	PK	67.8	19.0	0.3	87.1	7.1	30.6	23.5
*0.146	PK	71.7	19.0	0.3	91.0	11.0	28.1	17.1
0.359	PK	47.3	19.0	0.3	66.6	-13.4	26.2	39.6
0.419	PK	55.0	18.9	0.3	74.2	-5.8	25.5	31.3
0.717	PK	38.2	18.9	0.3	57.4	17.4	61.2	43.8
1.016	PK	32.5	18.9	0.5	51.9	11.9	56.5	44.6

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.344	PK	13.1	19.2	0.6	32.9	-7.1	29.5	36.6
25.702	PK	12.3	20.1	1.4	33.8	-6.2	29.5	35.7

- . \*\*" Means Fundamental frequency
- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]
- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]  
= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]
- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz
- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,  
Below 30 MHz

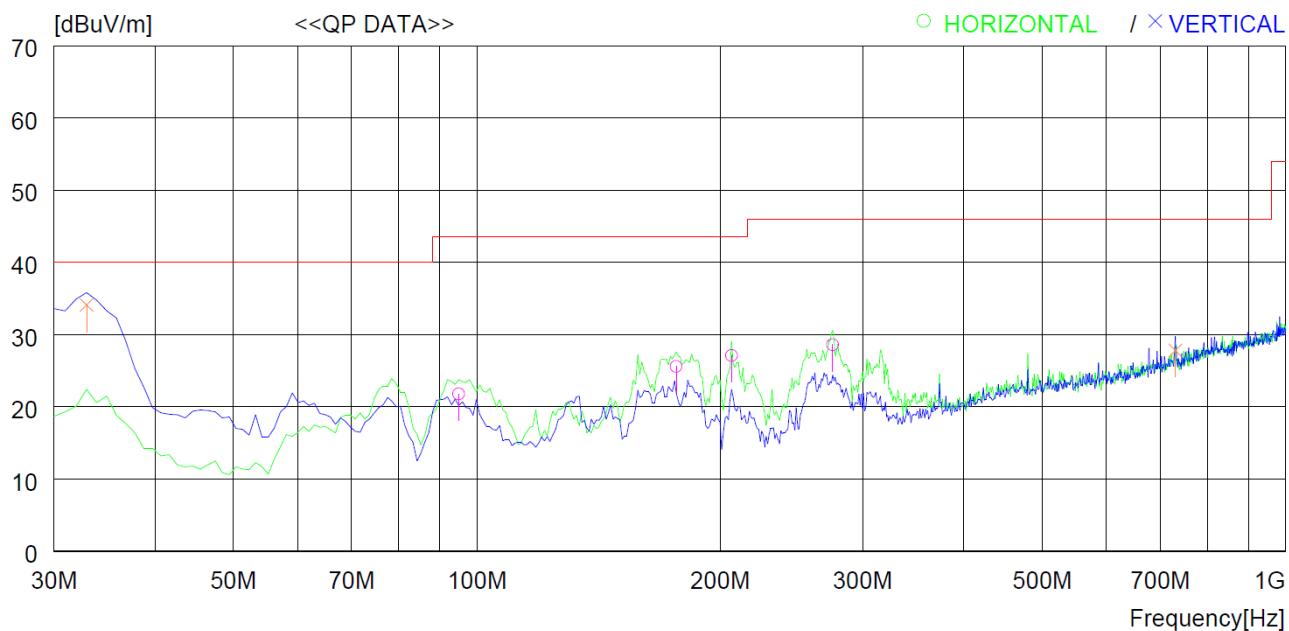
### 7.5.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	94.990	37.5	14.5	2.9	33.1	21.8	43.5	21.7	200	66
2	176.470	38.2	16.7	3.7	33.0	25.6	43.5	17.9	200	288
3	206.540	40.4	15.7	4.0	33.0	27.1	43.5	16.4	100	359
4	275.410	38.0	18.9	4.6	32.9	28.6	46.0	17.4	100	212
<hr/>										
----- Vertical -----										
5	32.910	45.2	20.2	1.8	33.1	34.1	40.0	5.9	100	359
6	730.334	27.5	26.1	7.6	33.4	27.8	46.0	18.2	200	355

## 7.6 Test data for Mode 3 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

### 7.6.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	39.1	19.0	0.2	58.3	-21.7	44.1	65.8
0.031	PK	41.6	19.0	0.2	60.8	-19.2	37.8	57.0
0.047	PK	29.5	19.0	0.2	48.7	-31.3	34.2	65.5
0.062	PK	35.7	19.0	0.2	54.9	-25.1	31.8	56.9
0.092	PK	30.2	19.0	0.3	49.5	-30.5	28.3	58.8
*0.128	PK	67.8	19.0	0.3	87.1	7.1	25.5	18.4
*0.146	PK	63.7	19.0	0.3	83.0	3.0	24.3	21.3
0.359	PK	47.4	19.0	0.3	66.7	-13.3	16.5	29.8
0.628	PK	33.6	18.9	0.3	52.8	12.8	31.6	18.8
1.404	PK	22.5	18.9	0.4	41.8	1.8	24.7	22.9

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.314	PK	11.7	19.2	0.6	31.5	-8.5	29.5	38.0
26.120	PK	12.5	20.1	1.4	34.0	-6.0	29.5	35.5

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

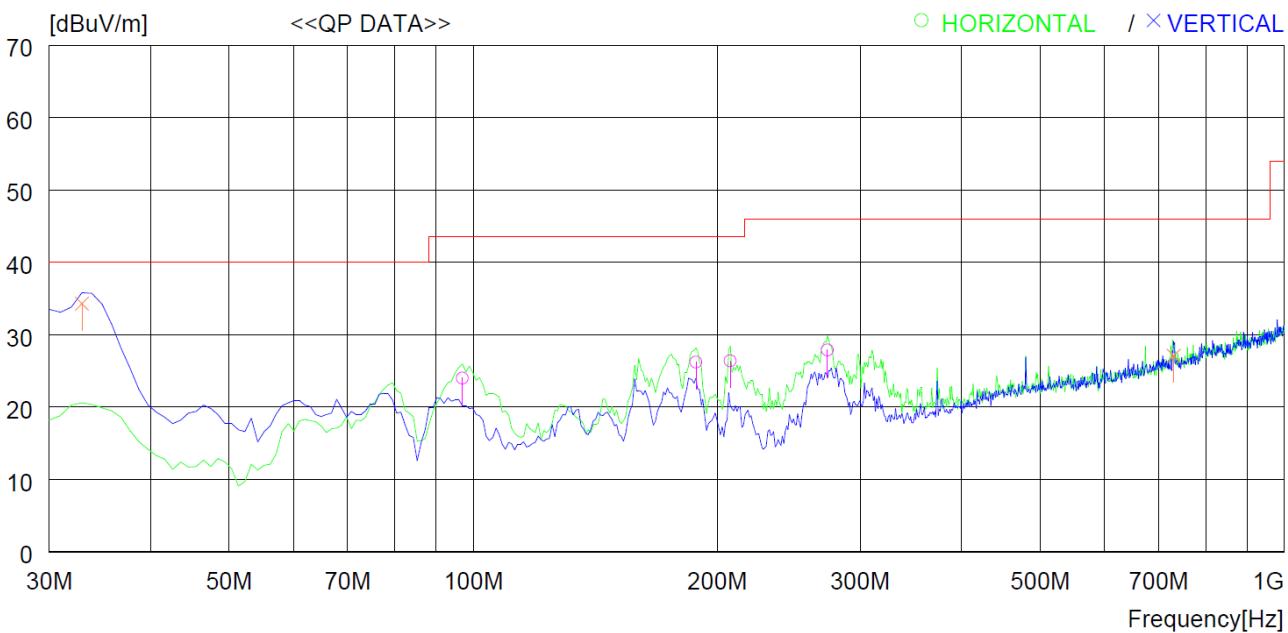
### 7.6.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	96.930	39.4	14.8	2.9	33.1	24.0	43.5	19.5	200	359
2	188.110	39.1	16.2	3.9	33.0	26.2	43.5	17.3	200	268
3	207.510	39.7	15.7	4.0	33.0	26.4	43.5	17.1	100	111
4	273.470	37.4	18.8	4.6	32.9	27.9	46.0	18.1	100	72
<hr/>										
----- Vertical -----										
5	32.910	45.4	20.2	1.8	33.1	34.3	40.0	5.7	100	359
6	730.334	26.8	26.1	7.6	33.4	27.1	46.0	18.9	400	0

## 7.7 Test data for Mode 4 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (120.5 kHz) / C : Watch (145.5 kHz))

### 7.7.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	39.8	19.0	0.2	59.0	-21.0	44.1	65.1
0.031	PK	38.5	19.0	0.2	57.7	-22.3	37.8	60.1
0.048	PK	32.0	19.0	0.2	51.2	-28.8	34.0	62.8
0.078	PK	29.2	19.0	0.3	48.5	-31.5	29.8	61.3
*0.121	PK	66.8	19.0	0.3	86.1	6.1	25.9	19.8
*0.128	PK	67.5	19.0	0.3	86.8	6.8	25.5	18.7
*0.146	PK	60.3	19.0	0.3	79.6	-0.4	24.3	24.7
0.359	PK	46.9	19.0	0.3	66.2	-13.8	16.5	30.3
0.628	PK	34.1	18.9	0.3	53.3	13.3	31.6	18.3
0.866	PK	29.6	18.9	0.3	48.8	8.8	28.9	20.1
1.866	PK	25.4	18.9	0.1	44.4	4.4	22.2	17.8

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
26.000	PK	13.2	20.1	0.5	33.8	-6.2	29.5	35.7

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

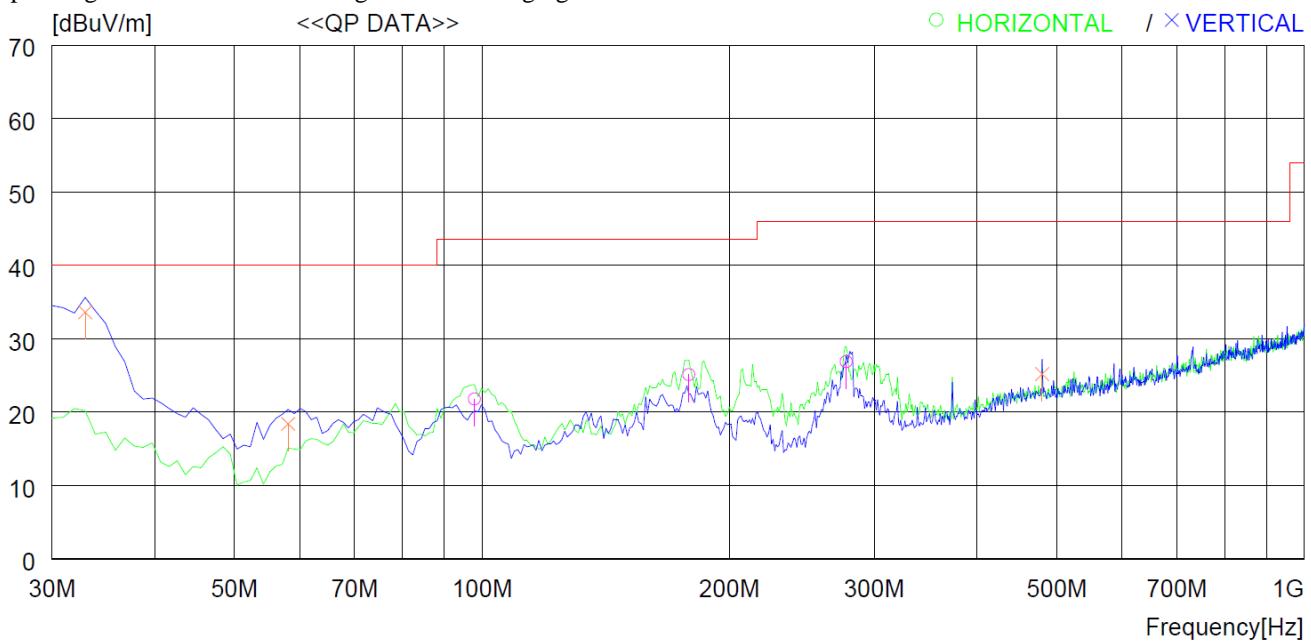
### 7.7.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	97.900	37.0	15.0	2.9	33.1	21.8	43.5	21.7	200	359
2	178.410	37.7	16.7	3.7	33.0	25.1	43.5	18.4	200	261
3	277.350	36.3	18.9	4.6	32.9	26.9	46.0	19.1	100	0
<hr/>										
----- Vertical -----										
4	32.910	44.7	20.2	1.8	33.1	33.6	40.0	6.4	100	359
5	58.130	36.9	12.2	2.4	33.1	18.4	40.0	21.6	100	359
6	480.081	28.7	23.4	6.2	33.1	25.2	46.0	20.8	100	187

## 7.8 Test data for Mode 5 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

### 7.8.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	39.3	19.0	0.2	58.5	-21.5	44.1	65.6
0.031	PK	37.6	19.0	0.2	56.8	-23.2	37.8	61.0
0.045	PK	40.8	19.0	0.2	60.0	-20.0	34.5	54.5
0.073	PK	46.7	19.0	0.2	65.9	-14.1	30.3	44.4
0.088	PK	33.3	19.0	0.3	52.6	-27.4	28.7	56.1
*0.128	PK	68.1	19.0	0.3	87.4	7.4	25.5	18.1
*0.146	PK	70.6	19.0	0.3	89.9	9.9	24.3	14.4
0.359	PK	47.7	19.0	0.3	67.0	-13.0	16.5	29.5
0.419	PK	54.8	18.9	0.3	74.0	-6.0	15.2	21.2
0.717	PK	37.8	18.9	0.3	57.0	17.0	30.5	13.5
1.016	PK	32.3	18.9	0.5	51.7	11.7	27.5	15.8

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
26.120	PK	12.8	20.1	1.4	34.3	-5.7	29.5	35.2

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

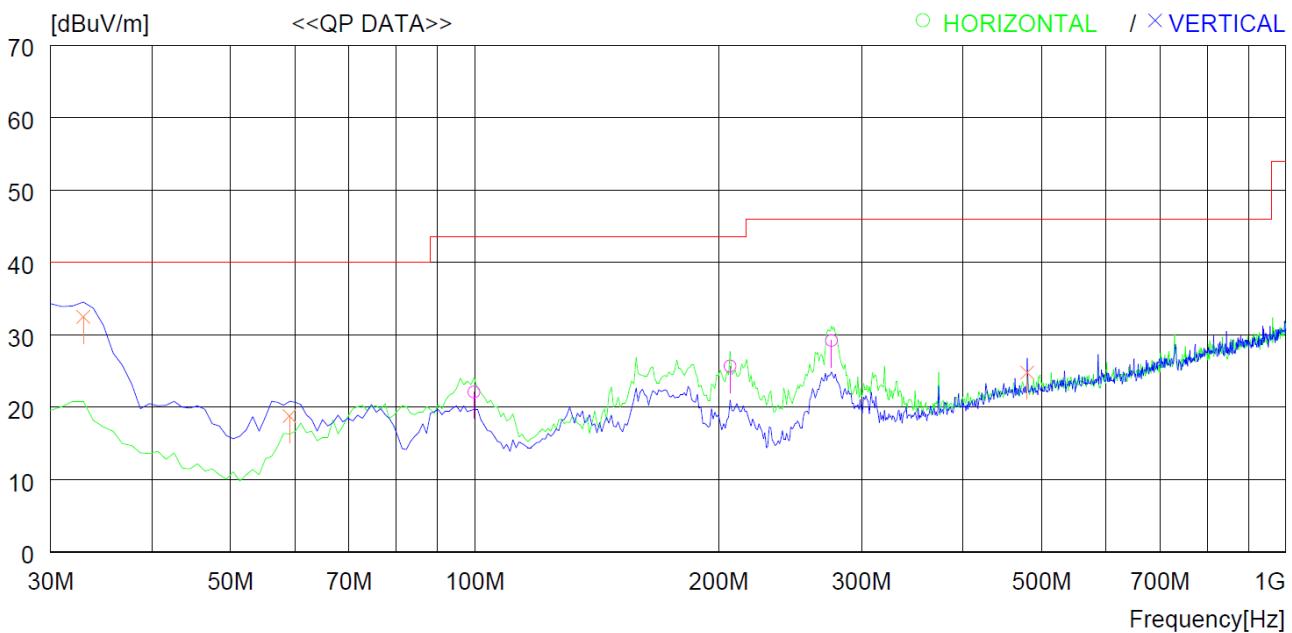
### 7.8.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	99.840	36.9	15.4	2.9	33.1	22.1	43.5	21.4	400	42
2	206.540	39.0	15.7	4.0	33.0	25.7	43.5	17.8	100	359
3	275.410	38.6	18.9	4.6	32.9	29.2	46.0	16.8	100	359
----- Vertical -----										
4	32.910	43.6	20.2	1.8	33.1	32.5	40.0	7.5	100	359
5	59.100	37.3	12.2	2.4	33.1	18.8	40.0	21.2	100	359
6	480.081	28.3	23.4	6.2	33.1	24.8	46.0	21.2	100	195

**7.9 Test data for Mode 6 (Ant-A : Mobile 2 (120.5 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))**
**7.9.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	39.7	19.0	0.2	58.9	-21.1	44.1	65.2
0.031	PK	38.0	19.0	0.2	57.2	-22.8	37.8	60.6
0.052	PK	32.6	19.0	0.2	51.8	-28.2	33.3	61.5
0.090	PK	30.1	19.0	0.3	49.4	-30.6	28.5	59.1
*0.121	PK	76.3	19.0	0.3	95.6	15.6	25.9	10.3
*0.128	PK	69.8	19.0	0.3	89.1	9.1	25.5	16.4
*0.145	PK	40.4	19.0	0.3	59.7	-20.3	24.4	44.7
0.359	PK	54.8	19.0	0.3	74.1	-5.9	16.5	22.4
0.598	PK	41.1	18.9	0.3	60.3	20.3	32.1	11.8
1.314	PK	29.5	18.9	0.4	48.8	8.8	25.2	16.4

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
2.508	PK	19.1	19.0	0.3	38.4	-1.6	29.5	31.1
26.179	PK	15.5	20.1	1.4	37.0	-3.0	29.5	32.5

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

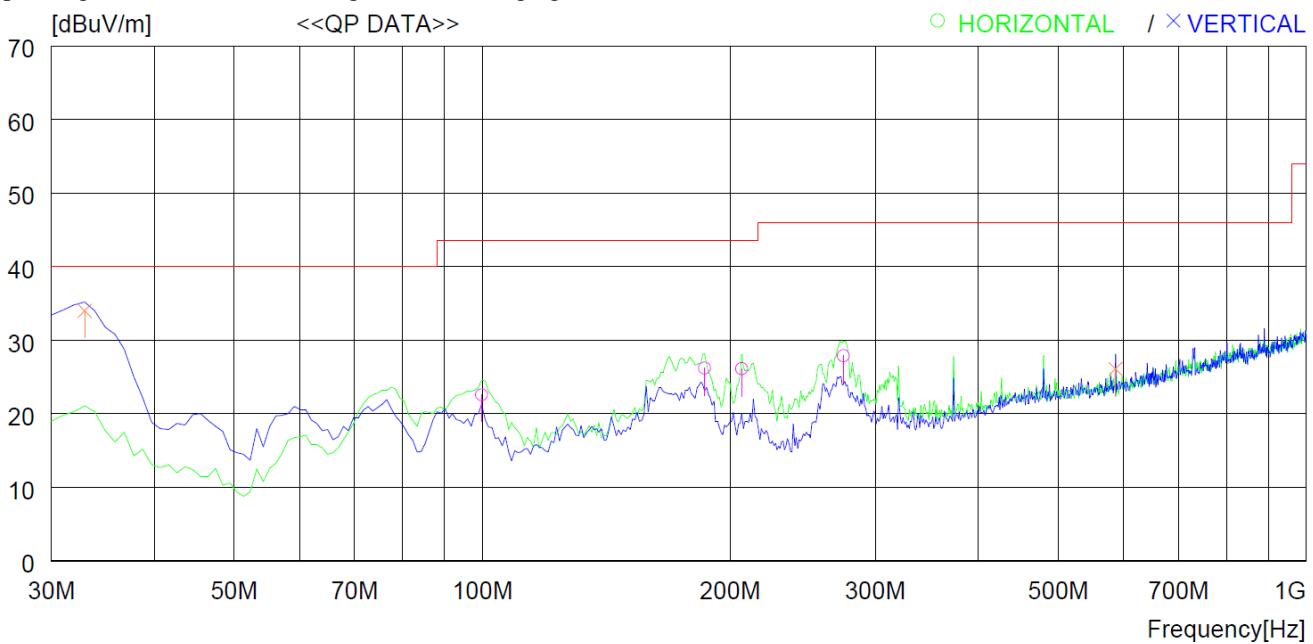
### 7.9.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	99.840	37.4	15.4	2.9	33.1	22.6	43.5	20.9	300	359
2	186.170	39.1	16.3	3.8	33.0	26.2	43.5	17.3	200	0
3	206.540	39.4	15.7	4.0	33.0	26.1	43.5	17.4	100	142
4	274.440	37.4	18.8	4.6	32.9	27.9	46.0	18.1	100	359
<hr/>										
----- Vertical -----										
5	32.910	45.1	20.2	1.8	33.1	34.0	40.0	6.0	100	0
6	586.778	28.2	24.2	6.9	33.2	26.1	46.0	19.9	100	0

**7.10 Test data for Mode 7 (Ant-A : Mobile 1 (138.0 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))**
**7.10.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	39.2	19.0	0.2	58.4	-21.6	43.5	65.1
0.037	PK	40.3	19.0	0.2	59.5	-20.5	36.2	56.7
0.074	PK	34.3	19.0	0.2	53.5	-26.5	30.2	56.7
*0.128	PK	69.4	19.0	0.3	88.7	8.7	25.5	16.8
*0.138	PK	68.3	19.0	0.3	87.6	7.6	24.8	17.2
*0.145	PK	40.6	19.0	0.3	59.9	-20.1	24.4	44.5
0.389	PK	51.2	19.0	0.3	70.5	-9.5	15.8	25.3
0.628	PK	39.8	18.9	0.3	59.0	19.0	31.6	12.6
0.866	PK	32.5	18.9	0.1	51.5	11.5	28.9	17.4
1.135	PK	27.7	18.9	0.5	47.1	7.1	26.5	19.4

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.374	PK	11.9	19.2	0.6	31.7	-8.3	29.5	37.8
25.821	PK	13.2	20.1	1.4	34.7	-5.3	29.5	34.8

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

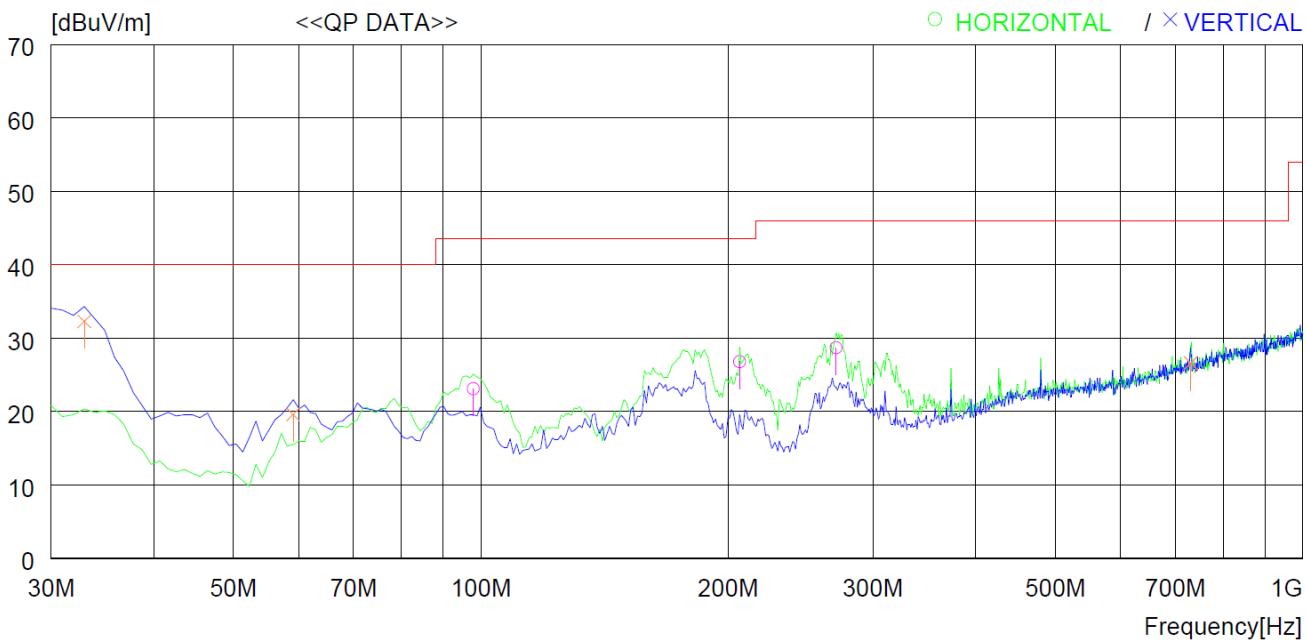
### 7.10.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	97.900	38.3	15.0	2.9	33.1	23.1	43.5	20.4	200	0
2	206.540	40.1	15.7	4.0	33.0	26.8	43.5	16.7	100	359
3	270.560	38.3	18.7	4.6	32.9	28.7	46.0	17.3	100	359
<hr/>										
----- Vertical -----										
4	32.910	43.4	20.2	1.8	33.1	32.3	40.0	7.7	100	0
5	59.100	38.1	12.2	2.4	33.1	19.6	40.0	20.4	100	10
6	730.334	26.3	26.1	7.6	33.4	26.6	46.0	19.4	400	359

## 7.11 Test data for Mode 8 (Ant-A : Mobile 1 (138.0 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))

### 7.11.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	39.5	19.0	0.2	58.7	-21.3	43.5	64.8
0.031	PK	38.3	19.0	0.2	57.5	-22.5	37.8	60.3
0.037	PK	40.3	19.0	0.2	59.5	-20.5	36.2	56.7
0.074	PK	34.9	19.0	0.2	54.1	-25.9	30.2	56.1
*0.128	PK	69.4	19.0	0.3	88.7	8.7	25.5	16.8
*0.138	PK	68.3	19.0	0.3	87.6	7.6	24.8	17.2
*0.145	PK	44.2	19.0	0.3	63.5	-16.5	24.4	40.9
0.389	PK	50.7	19.0	0.3	70.0	-10.0	15.8	25.8
0.628	PK	39.8	18.9	0.3	59.0	19.0	31.6	12.6
0.866	PK	32.5	18.9	0.1	51.5	11.5	28.9	17.4
1.135	PK	27.7	18.9	0.1	46.7	6.6	26.5	19.9

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
26.090	PK	14.5	20.1	1.4	36.0	-4.0	29.5	33.5

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

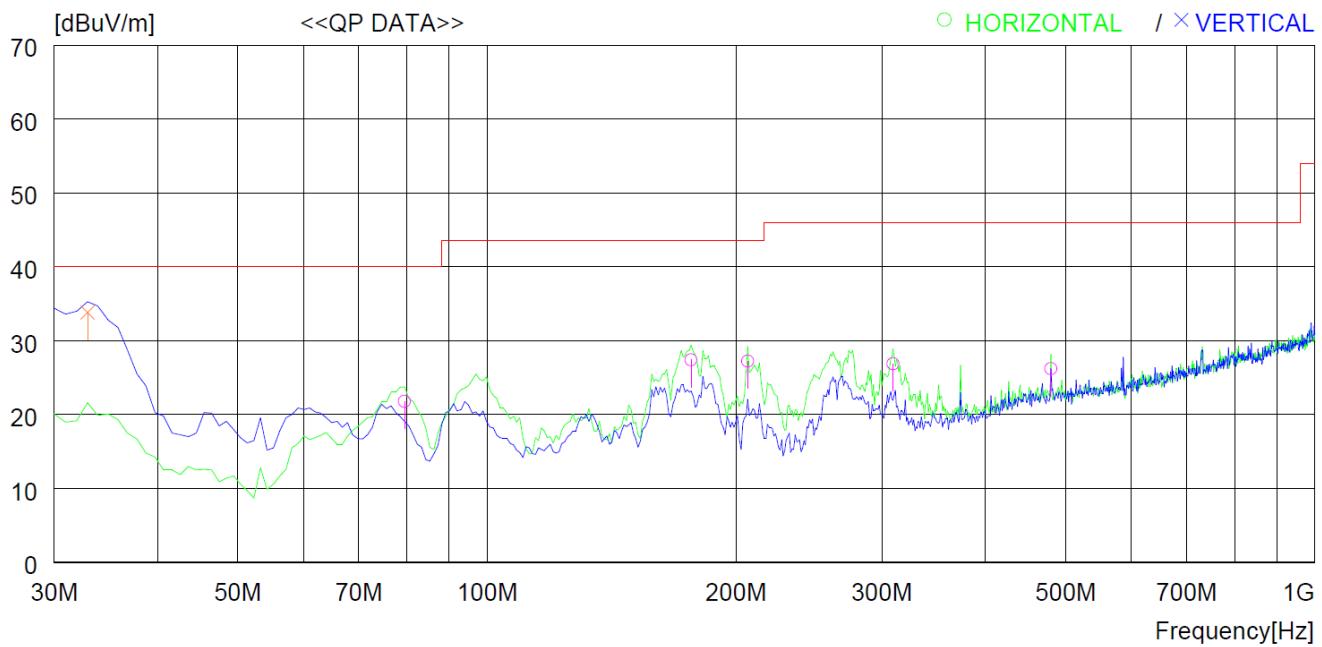
### 7.11.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
1	79.470	38.9	13.3	2.7	33.1	21.8	40.0	18.2	400	213
2	176.470	40.0	16.7	3.7	33.0	27.4	43.5	16.1	200	262
3	206.540	40.5	15.7	4.0	33.0	27.2	43.5	16.3	200	136
4	309.360	35.5	19.5	4.8	32.9	26.9	46.0	19.1	100	0
5	480.081	29.7	23.4	6.2	33.1	26.2	46.0	19.8	200	359
<hr/>										
<hr/>										
6	32.910	44.9	20.2	1.8	33.1	33.8	40.0	6.2	100	359

**7.12 Test data for Mode 9 (Ant-A : Mobile 2 (120.5 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))**
**7.12.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	39.7	19.0	0.2	58.9	-21.1	43.5	64.6
0.031	PK	38.4	19.0	0.2	57.6	-22.4	37.8	60.2
0.049	PK	31.9	19.0	0.2	51.1	-28.9	33.8	62.7
0.078	PK	28.1	19.0	0.3	47.4	-32.6	29.8	62.4
*0.121	PK	67.2	19.0	0.3	86.5	6.5	25.9	19.4
*0.128	PK	69.2	19.0	0.3	88.5	8.5	25.5	17.0
*0.145	PK	42.8	19.0	0.3	62.1	-17.9	24.4	42.3
0.359	PK	47.8	19.0	0.3	67.1	-12.9	16.5	29.4
0.628	PK	40.1	18.9	0.3	59.3	19.3	31.6	12.3
0.866	PK	32.5	18.9	0.1	51.5	11.5	28.9	17.4
1.135	PK	27.8	18.9	0.5	47.2	7.2	26.5	19.3

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
25.911	PK	14.4	20.1	1.4	35.9	-4.1	29.5	33.6

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

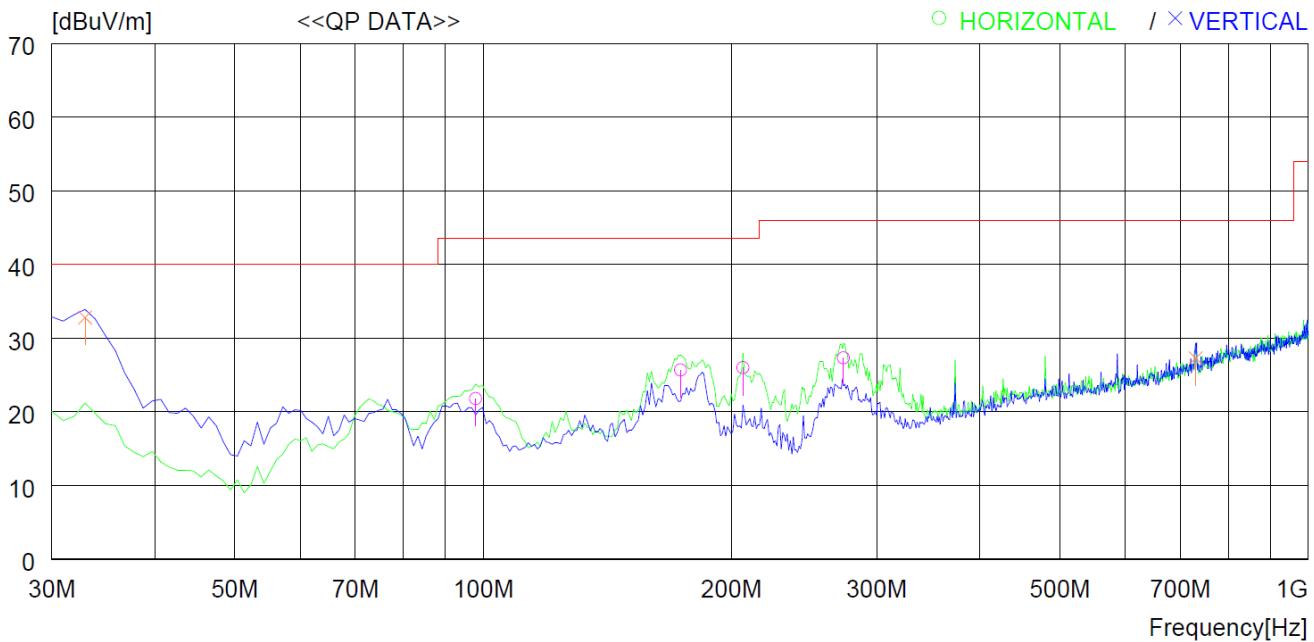
### 7.12.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
1	97.900	37.0	15.0	2.9	33.1	21.8	43.5	21.7	300	359
2	173.560	38.5	16.5	3.7	33.0	25.7	43.5	17.8	200	116
3	206.540	39.3	15.7	4.0	33.0	26.0	43.5	17.5	100	130
4	273.470	36.8	18.8	4.6	32.9	27.3	46.0	18.7	100	63
<hr/>										
<hr/>										
5	32.910	43.9	20.2	1.8	33.1	32.8	40.0	7.2	100	0
6	730.334	27.0	26.1	7.6	33.4	27.3	46.0	18.7	400	353

**7.13 Test data for Mode 10 (Ant-A : Mobile 1 (138.0 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))**
**7.13.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	39.2	19.0	0.2	58.4	-21.6	43.5	65.1
0.031	PK	38.5	19.0	0.2	57.7	-22.3	37.8	60.1
0.036	PK	40.3	19.0	0.2	59.5	-20.5	36.5	57.0
0.072	PK	34.3	19.0	0.2	53.5	-26.5	30.5	57.0
*0.128	PK	69.3	19.0	0.3	88.6	8.6	25.5	16.9
*0.138	PK	67.7	19.0	0.3	87.0	7.0	24.8	17.8
*0.145	PK	42.9	19.0	0.3	62.2	-17.8	24.4	42.2
0.389	PK	53.3	19.0	0.3	72.6	-7.4	15.8	23.2
0.687	PK	40.4	18.9	0.3	59.6	19.6	30.9	11.3
0.956	PK	33.4	18.9	0.3	52.6	12.6	28.0	15.4
1.404	PK	24.9	18.9	0.4	44.2	4.2	24.7	20.5

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
25.821	PK	15.3	20.1	1.4	36.8	-3.2	29.5	32.7

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

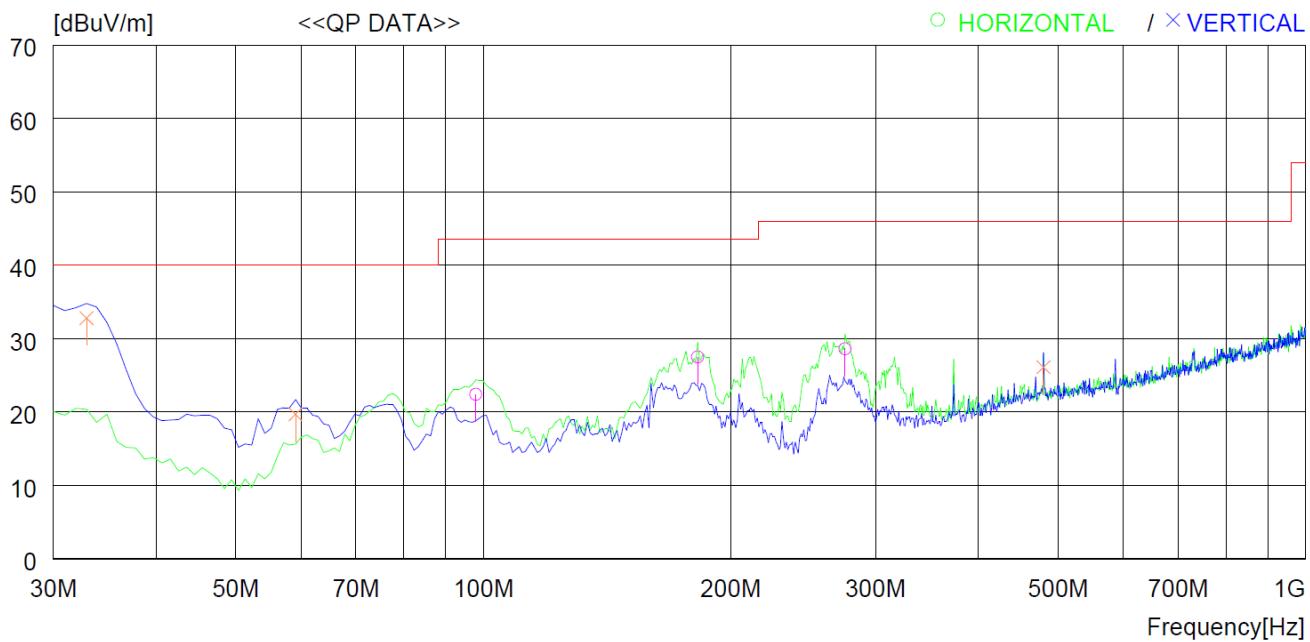
### 7.13.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	97.900	37.6	15.0	2.9	33.1	22.4	43.5	21.1	400	44
2	182.290	40.2	16.6	3.7	33.0	27.5	43.5	16.0	200	254
3	275.410	38.0	18.9	4.6	32.9	28.6	46.0	17.4	100	195
<hr/>										
----- Vertical -----										
4	32.910	43.9	20.2	1.8	33.1	32.8	40.0	7.2	100	0
5	59.100	38.2	12.2	2.4	33.1	19.7	40.0	20.3	200	2
6	480.081	29.6	23.4	6.2	33.1	26.1	46.0	19.9	100	0

**7.14 Test data for Mode 11 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))**
**7.14.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	37.5	19.0	0.2	56.7	-23.3	44.1	67.4
0.031	PK	37.1	19.0	0.2	56.3	-23.7	37.8	61.5
0.053	PK	40.9	19.0	0.2	60.1	-19.9	33.1	53.0
0.100	PK	30.2	19.0	0.3	49.5	-30.5	27.6	58.1
*0.121	PK	71.1	19.0	0.3	90.4	10.4	25.9	15.5
*0.146	PK	72.9	19.0	0.3	92.2	12.2	24.3	12.1
0.359	PK	49.3	19.0	0.3	68.6	-11.4	16.5	27.9
0.419	PK	48.2	18.9	0.3	67.4	-12.6	15.2	27.8
0.717	PK	41.4	18.9	0.3	60.6	20.6	30.5	9.9
1.016	PK	34.5	18.9	0.5	53.9	13.9	27.5	13.6

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.851	PK	13.5	19.3	0.7	33.5	-6.5	29.5	36.0
26.896	PK	14.1	20.2	1.5	35.8	-4.2	29.5	33.7

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

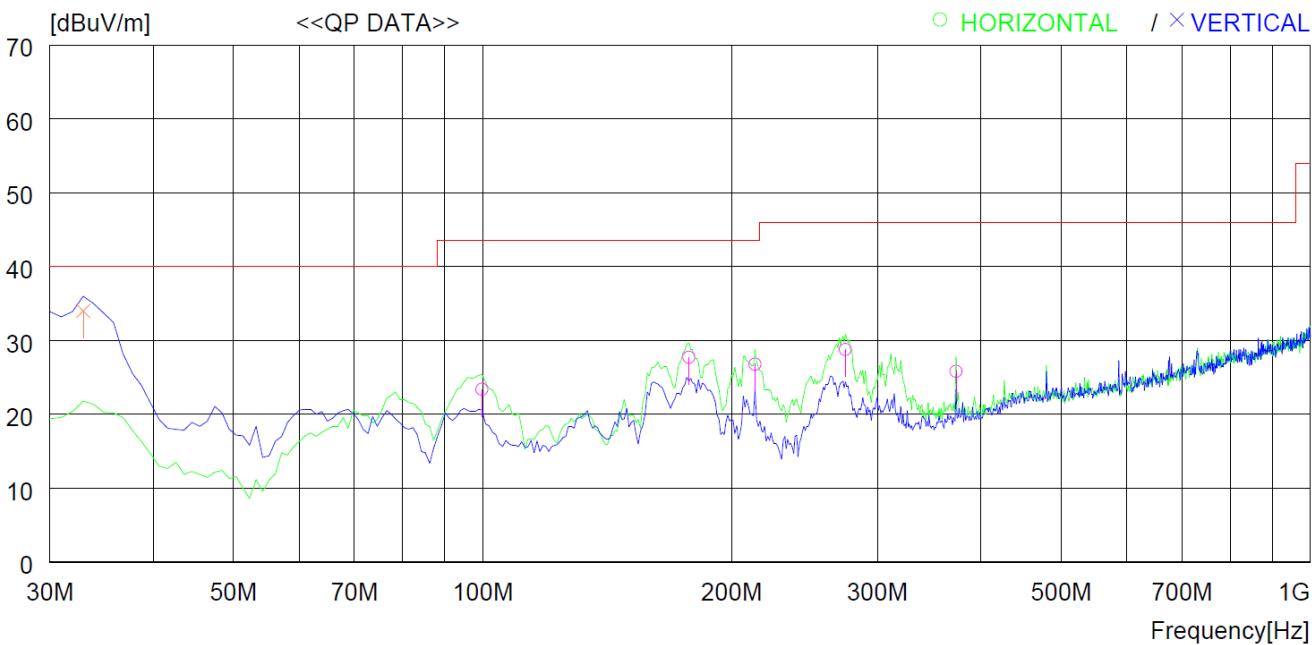
### 7.14.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	99.840	38.2	15.4	2.9	33.1	23.4	43.5	20.1	200	35
2	177.440	40.3	16.7	3.7	33.0	27.7	43.5	15.8	200	109
3	213.330	40.0	15.7	4.1	33.0	26.8	43.5	16.7	100	359
4	274.440	38.3	18.8	4.6	32.9	28.8	46.0	17.2	100	359
5	373.380	32.7	20.7	5.4	33.0	25.8	46.0	20.2	100	359
<hr/>										
----- Vertical -----										
6	32.910	45.1	20.2	1.8	33.1	34.0	40.0	6.0	100	0

**7.15 Test data for Mode 12 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))**
**7.15.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	35.6	19.0	0.2	54.8	-25.2	43.5	68.7
0.031	PK	36.7	19.0	0.2	55.9	-24.1	37.8	61.9
0.052	PK	41.8	19.0	0.2	61.0	-19.0	33.3	52.3
0.114	PK	33.0	19.0	0.3	52.3	-27.7	26.5	54.2
*0.121	PK	70.8	19.0	0.3	90.1	10.1	25.9	15.8
*0.146	PK	71.9	19.0	0.3	91.2	11.2	24.3	13.1
0.359	PK	49.3	19.0	0.3	68.6	-11.4	16.5	27.9
0.419	PK	51.0	18.9	0.3	70.2	-9.8	15.2	25.0
0.717	PK	41.6	18.9	0.3	60.8	20.8	30.5	9.7
1.583	PK	26.6	18.9	0.3	45.8	5.8	23.6	17.8

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.851	PK	12.1	19.3	0.7	32.1	-7.9	29.5	37.4
27.015	PK	14.3	20.2	1.5	36.0	-4.0	29.5	33.5

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

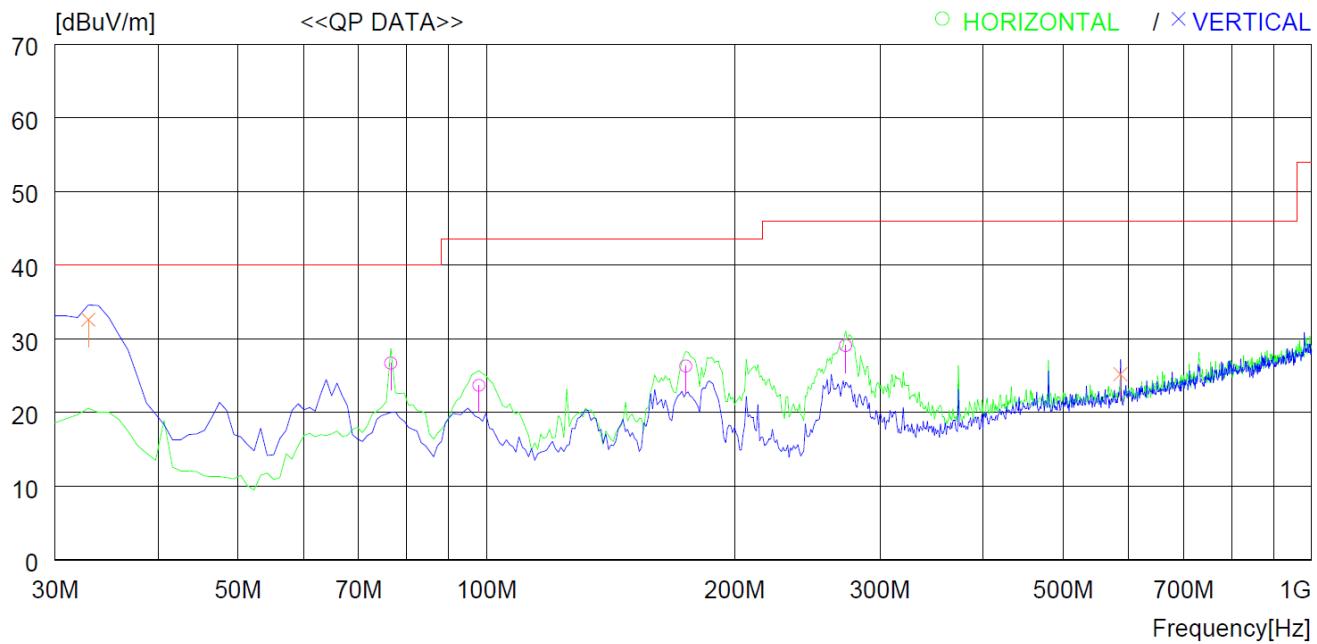
### 7.15.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
1	76.560	44.9	13.3	1.6	33.1	26.7	40.0	13.3	300	359
2	97.900	39.9	15.0	1.9	33.1	23.7	43.5	19.8	200	0
3	174.530	40.2	16.6	2.5	33.0	26.3	43.5	17.2	200	121
4	272.500	40.0	18.8	3.2	32.9	29.1	46.0	16.9	100	186
<hr/>										
----- Vertical -----										
5	32.910	44.4	20.2	1.1	33.1	32.6	40.0	7.4	100	0
6	586.778	29.4	24.2	4.8	33.2	25.2	46.0	20.8	100	173

**7.16 Test data for Mode 13 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))**
**7.16.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	36.4	19.0	0.2	55.6	-24.4	44.1	68.5
0.031	PK	36.7	19.0	0.2	55.9	-24.1	37.8	61.9
0.038	PK	37.0	19.0	0.2	56.2	-23.8	36.0	59.8
0.048	PK	41.9	19.0	0.2	61.1	-18.9	34.0	52.9
0.099	PK	32.4	19.0	0.3	51.7	-28.3	27.7	56.0
*0.121	PK	65.0	19.0	0.3	84.3	4.3	25.9	21.6
*0.146	PK	70.8	19.0	0.3	90.1	10.1	24.3	14.2
0.359	PK	44.6	19.0	0.3	63.9	-16.1	16.5	32.6
0.419	PK	48.5	18.9	0.3	67.7	-12.3	15.2	27.5
0.717	PK	39.7	18.9	0.3	58.9	18.9	30.5	11.6
1.016	PK	33.9	18.9	0.1	52.9	12.9	27.5	67.5

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
27.134	PK	14.5	20.2	1.5	36.2	-3.8	29.5	33.3

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

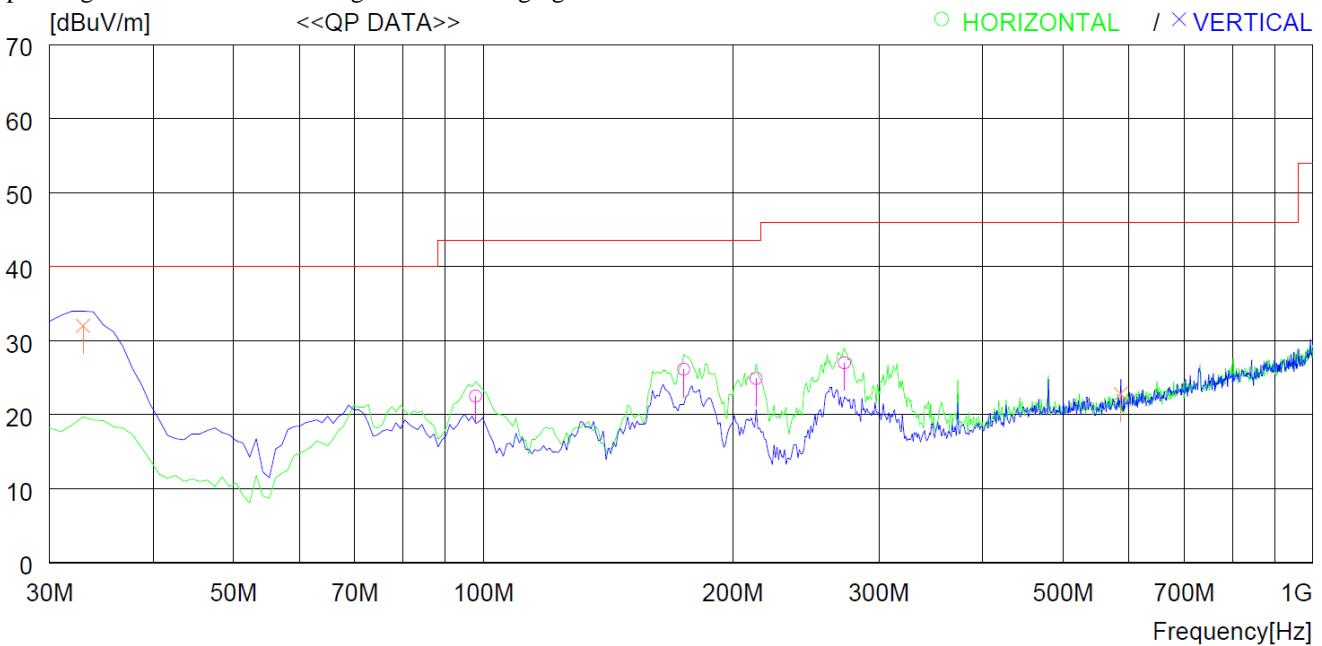
### 7.16.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
1	97.900	38.7	15.0	1.9	33.1	22.5	43.5	21.0	200	0
2	174.530	40.0	16.6	2.5	33.0	26.1	43.5	17.4	200	0
3	213.330	39.4	15.7	2.8	33.0	24.9	43.5	18.6	100	106
4	272.500	37.9	18.8	3.2	32.9	27.0	46.0	19.0	100	359
<hr/>										
----- Vertical -----										
5	32.910	43.8	20.2	1.1	33.1	32.0	40.0	8.0	100	0
6	586.778	27.0	24.2	4.8	33.2	22.8	46.0	23.2	100	206

**7.17 Test data for Mode 14 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))**
**7.17.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	37.3	19.0	0.2	56.5	-23.5	43.5	67.0
0.031	PK	37.4	19.0	0.2	56.6	-23.4	37.8	61.2
0.054	PK	41.5	19.0	0.2	60.7	-19.3	33.0	52.3
0.086	PK	28.4	19.0	0.3	47.7	-32.3	28.9	61.2
*0.121	PK	73.9	19.0	0.3	93.2	13.2	25.9	12.7
*0.138	PK	69.5	19.0	0.3	88.8	8.8	24.8	16.0
*0.146	PK	42.8	19.0	0.3	62.1	-17.9	24.3	42.2
0.359	PK	52.4	19.0	0.3	71.7	-8.3	16.5	24.8
0.598	PK	42.3	18.9	0.3	61.5	21.5	32.1	10.6
0.837	PK	36.2	18.9	0.2	55.3	15.3	29.1	13.8

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.941	PK	14.1	19.3	0.7	34.1	-5.9	29.5	35.4
24.299	PK	16.3	20.0	1.4	37.7	-2.3	29.5	31.8

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

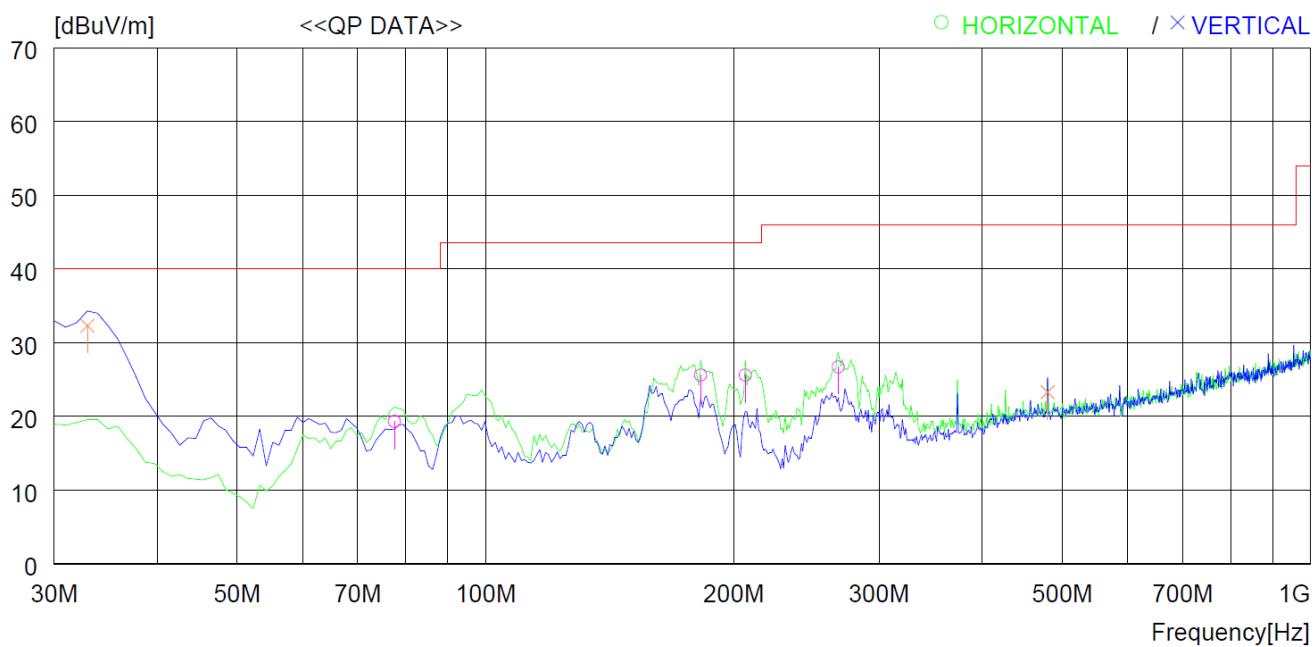
### 7.17.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
1	77.530	37.4	13.3	1.7	33.1	19.3	40.0	20.7	200	0
2	182.290	39.5	16.6	2.5	33.0	25.6	43.5	17.9	200	0
3	206.540	40.2	15.7	2.7	33.0	25.6	43.5	17.9	100	359
4	267.650	37.8	18.6	3.2	32.9	26.7	46.0	19.3	100	194
<hr/>										
----- Vertical -----										
5	32.910	44.1	20.2	1.1	33.1	32.3	40.0	7.7	100	0
6	480.081	28.7	23.4	4.3	33.1	23.3	46.0	22.7	100	0

**7.18 Test data for Mode 15 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))**
**7.18.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	36.4	19.0	0.2	55.6	-24.4	44.1	68.5
0.035	PK	39.9	19.0	0.2	59.1	-20.9	36.7	57.6
0.069	PK	34.2	19.0	0.2	53.4	-26.6	30.8	57.4
0.111	PK	28.0	19.0	0.3	47.3	-32.7	26.7	59.4
*0.121	PK	70.2	19.0	0.3	89.5	9.5	25.9	16.4
*0.146	PK	40.7	19.0	0.3	60.0	-20.0	24.3	44.3
0.359	PK	46.1	19.0	0.3	65.4	-14.6	16.5	31.1
0.598	PK	40.6	18.9	0.3	59.8	19.8	32.1	12.3
0.837	PK	33.5	18.9	0.2	52.6	12.6	29.1	16.5
1.075	PK	28.7	18.9	0.5	48.1	8.1	27.0	18.9

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.822	PK	11.7	19.2	0.6	31.5	-8.5	29.5	38.0
26.896	PK	14.6	20.2	1.5	36.3	-3.7	29.5	33.2

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

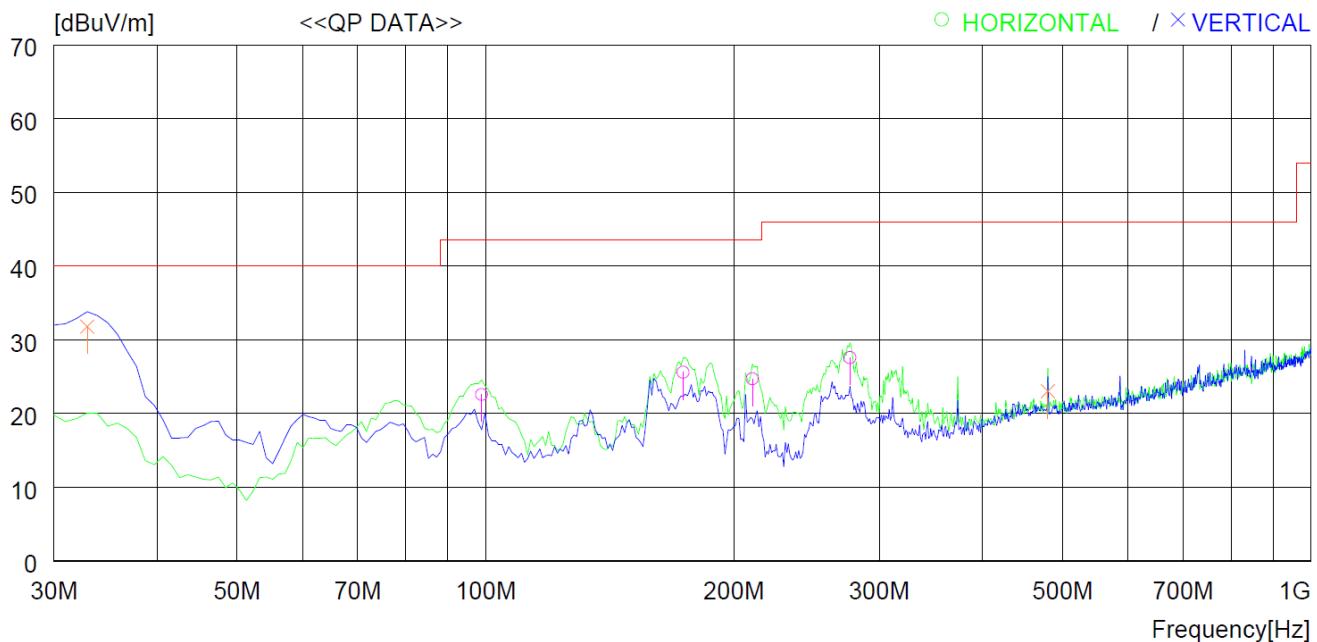
### 7.18.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	98.870	38.6	15.2	1.9	33.1	22.6	43.5	20.9	300	220
2	173.560	39.6	16.5	2.5	33.0	25.6	43.5	17.9	200	132
3	210.420	39.2	15.7	2.8	33.0	24.7	43.5	18.8	100	116
4	276.380	38.4	18.9	3.2	32.9	27.6	46.0	18.4	100	197
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----- Vertical -----										
5	32.910	43.6	20.2	1.1	33.1	31.8	40.0	8.2	100	214
6	480.081	28.4	23.4	4.3	33.1	23.0	46.0	23.0	100	179

**7.19 Test data for Mode 16 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))**
**7.19.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	37.6	19.0	0.2	56.8	-23.2	43.5	66.7
0.031	PK	36.8	19.0	0.2	56.0	-24.0	37.8	61.8
0.050	PK	41.8	19.0	0.2	61.0	-19.0	33.6	52.6
*0.121	PK	70.6	19.0	0.3	89.9	9.9	25.9	16.0
*0.138	PK	68.7	19.0	0.3	88.0	8.0	24.8	16.8
*0.146	PK	43.2	19.0	0.3	62.5	-17.5	24.3	41.8
0.389	PK	49.5	19.0	0.3	68.8	-11.2	15.8	27.0
0.687	PK	39.8	18.9	0.3	59.0	19.0	30.9	11.9
0.837	PK	33.9	18.9	0.2	53.0	13.0	29.1	16.1
1.553	PK	23.8	18.9	0.3	43.0	3.0	23.8	20.8

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.433	PK	13.5	19.2	0.6	33.3	-6.7	29.5	36.2
25.015	PK	16.6	20.1	1.4	38.1	-1.9	29.5	31.4

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

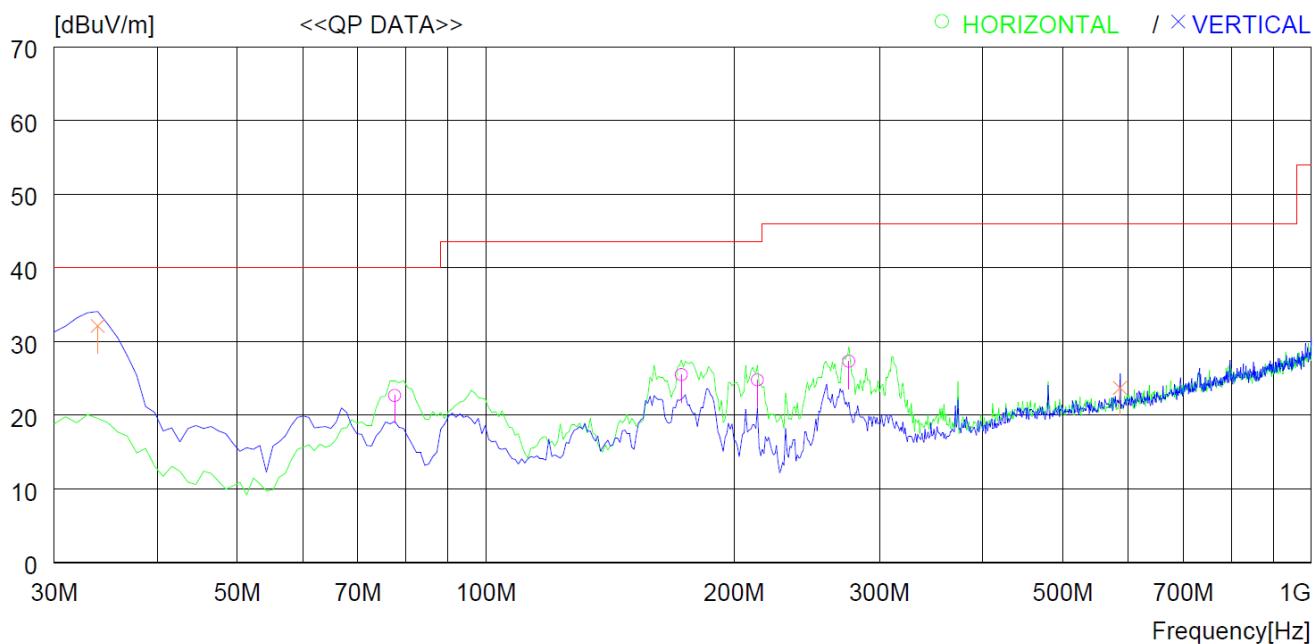
### 7.19.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
1	77.530	40.8	13.3	1.7	33.1	22.7	40.0	17.3	300	359
2	172.590	39.5	16.5	2.5	33.0	25.5	43.5	18.0	200	116
3	213.330	39.3	15.7	2.8	33.0	24.8	43.5	18.7	100	359
4	275.410	38.1	18.9	3.2	32.9	27.3	46.0	18.7	100	359
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**7.20 Test data for Mode 17 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))**
**7.20.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	36.5	19.0	0.2	55.7	-24.3	44.1	68.4
0.031	PK	40.2	19.0	0.2	59.4	-20.6	37.8	58.4
0.047	PK	27.5	19.0	0.2	46.7	-33.3	34.2	67.5
0.061	PK	34.6	19.0	0.2	53.8	-26.2	31.9	58.1
0.092	PK	29.5	19.0	0.3	48.8	-31.2	28.3	59.5
*0.121	PK	69.5	19.0	0.3	88.8	8.8	25.9	17.1
*0.138	PK	65.5	19.0	0.3	84.8	4.8	24.8	20.0
*0.146	PK	59.9	19.0	0.3	79.2	-0.8	24.3	25.1
0.359	PK	48.6	19.0	0.3	67.9	-12.1	16.5	28.6
0.598	PK	37.9	18.9	0.3	57.1	17.1	32.1	15.0

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.463	PK	11.7	19.2	0.6	31.5	-8.5	29.5	38.0
25.015	PK	13.3	20.1	1.4	34.8	-5.2	29.5	34.7

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

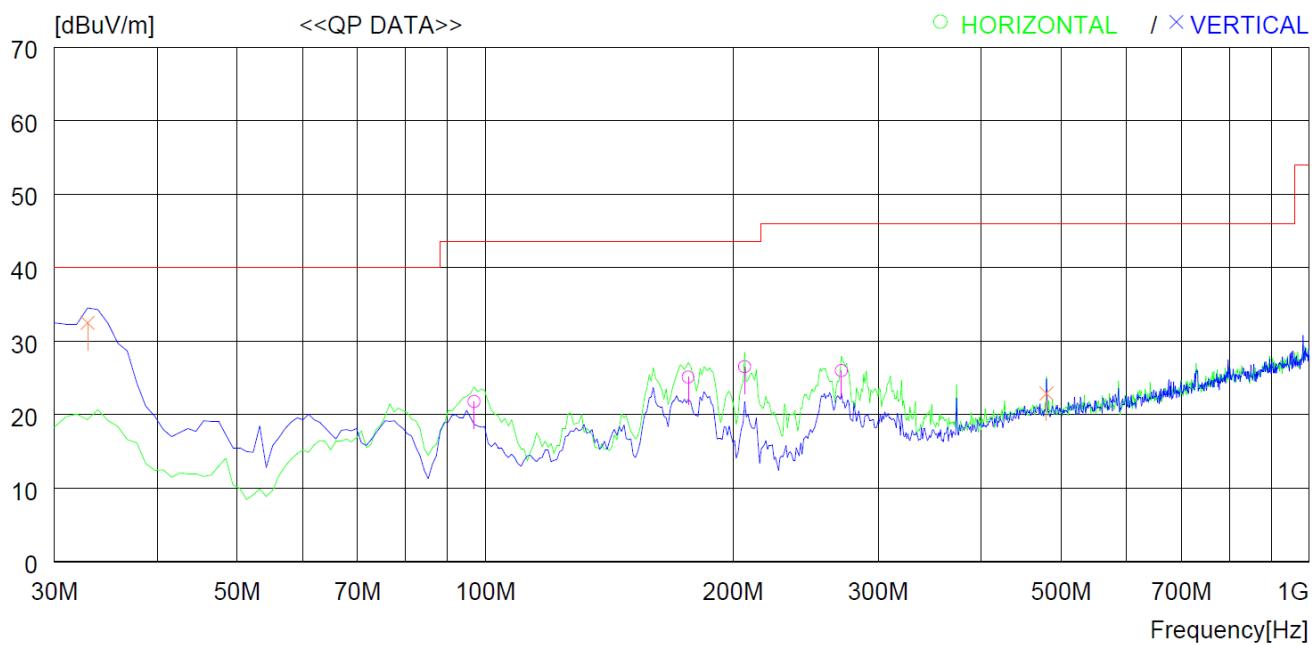
### 7.20.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	96.930	38.2	14.8	1.9	33.1	21.8	43.5	21.7	300	38
2	176.470	38.9	16.7	2.5	33.0	25.1	43.5	18.4	200	135
3	206.540	41.1	15.7	2.7	33.0	26.5	43.5	17.0	100	359
4	270.560	37.0	18.7	3.2	32.9	26.0	46.0	20.0	100	188
<hr/>										
----- Vertical -----										
5	32.910	44.3	20.2	1.1	33.1	32.5	40.0	7.5	100	0
6	480.081	28.3	23.4	4.3	33.1	22.9	46.0	23.1	100	183

**7.21 Test data for Mode 18 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))**
**7.21.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	38	19.0	0.2	57.2	-22.8	44.1	66.9
0.031	PK	36.9	19.0	0.2	56.1	-23.9	37.8	61.7
0.045	PK	40.8	19.0	0.2	60.0	-20.0	34.5	54.5
0.089	PK	33.7	19.0	0.3	53.0	-27.0	28.6	55.6
*0.138	PK	68.2	19.0	0.3	87.5	7.5	24.8	17.3
*0.146	PK	70.6	19.0	0.3	89.9	9.9	24.3	14.4
0.269	PK	26.9	19.0	0.3	46.2	-33.8	19.0	52.8
0.389	PK	49.9	19.0	0.3	69.2	-10.8	15.8	26.6
0.687	PK	40.2	18.9	0.3	59.4	19.4	30.9	11.5
0.956	PK	32.5	18.9	0.3	51.7	11.7	28.0	16.3

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.433	PK	13.3	19.2	0.6	33.1	-6.9	29.5	36.4
25.015	PK	16.3	20.1	1.4	37.8	-2.2	29.5	31.7

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

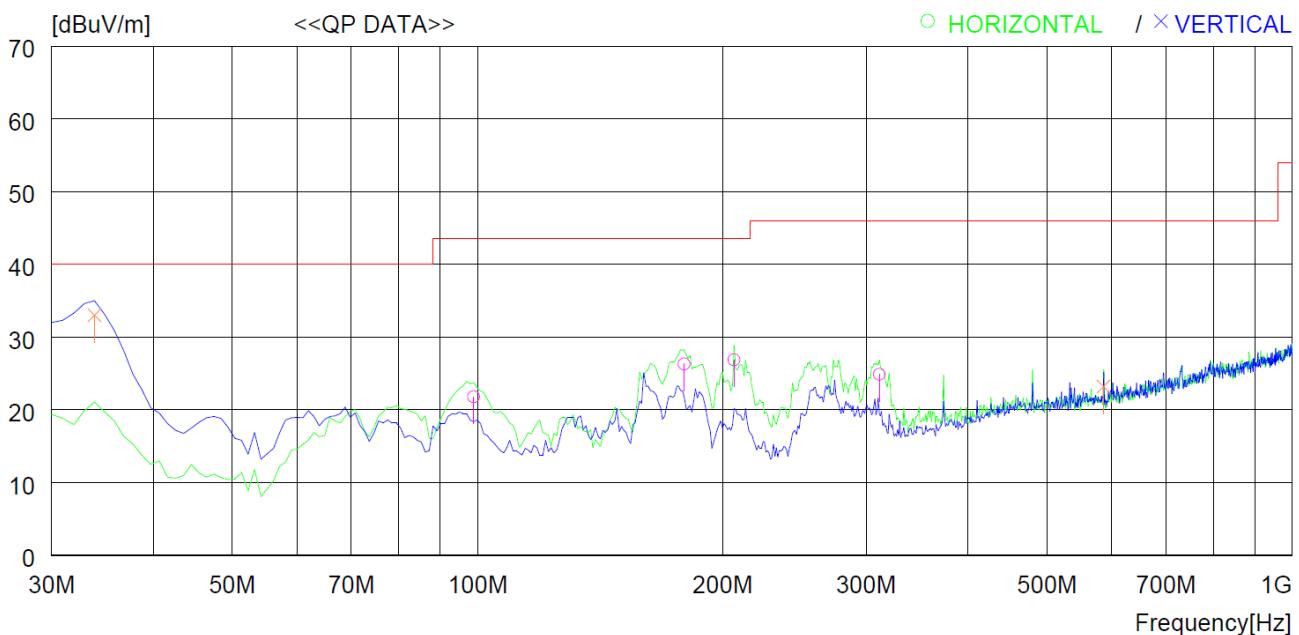
### 7.21.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	98.870	37.8	15.2	1.9	33.1	21.8	43.5	21.7	300	359
2	179.380	40.0	16.8	2.5	33.0	26.3	43.5	17.2	200	265
3	206.540	41.5	15.7	2.7	33.0	26.9	43.5	16.6	100	133
4	311.300	34.7	19.6	3.5	32.9	24.9	46.0	21.1	100	359
----- Vertical -----										
5	33.880	45.2	19.8	1.1	33.1	33.0	40.0	7.0	100	0
6	586.778	27.4	24.2	4.8	33.2	23.2	46.0	22.8	100	4

**7.22 Test data for Mode 19 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))**
**7.22.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	36.8	19.0	0.2	56.0	-24.0	44.1	68.1
0.031	PK	37.1	19.0	0.2	56.3	-23.7	37.8	61.5
0.049	PK	40.7	19.0	0.2	59.9	-20.1	33.8	53.9
0.104	PK	30.9	19.0	0.3	50.2	-29.8	27.3	57.1
*0.138	PK	65.7	19.0	0.3	85.0	5.0	24.8	19.8
*0.146	PK	71.0	19.0	0.3	90.3	10.3	24.3	14.0
0.419	PK	52.3	18.9	0.3	71.5	-8.5	15.2	23.7
0.717	PK	42.3	18.9	0.3	61.5	21.5	30.5	9.0
1.016	PK	35.4	18.9	0.5	54.8	14.8	27.5	12.7
1.583	PK	27.5	18.9	0.3	46.7	6.7	23.6	16.9

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
5.493	PK	13.8	19.2	0.6	33.6	-6.4	29.5	35.9
25.015	PK	17.0	20.1	1.4	38.5	-1.5	29.5	31.0

-. \*\* Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

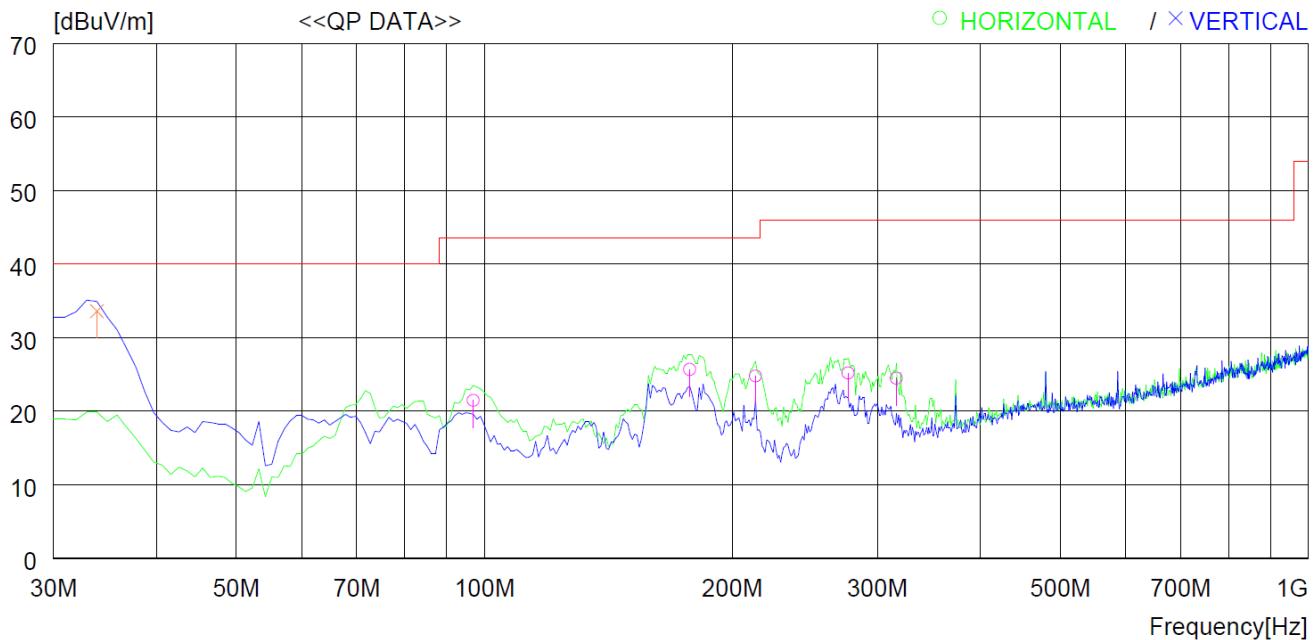
### 7.22.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
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----- Horizontal -----										
1	96.930	36.9	14.8	2.9	33.1	21.5	43.5	22.0	300	359
2	177.440	38.3	16.7	3.7	33.0	25.7	43.5	17.8	200	256
3	213.330	38.0	15.7	4.1	33.0	24.8	43.5	18.7	200	0
4	276.380	34.6	18.9	4.6	32.9	25.2	46.0	20.8	100	359
5	316.150	33.0	19.6	4.9	33.0	24.5	46.0	21.5	100	359
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----- Vertical -----										
6	33.880	45.1	19.8	1.8	33.1	33.6	40.0	6.4	100	0

**7.23 Test data for Mode 20 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))**
**7.23.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

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EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	36.8	19.0	0.2	56.0	-24.0	44.1	68.1
0.026	PK	33.0	19.0	0.2	52.2	-27.8	39.3	67.1
0.031	PK	37.0	19.0	0.2	56.2	-23.8	37.8	61.6
0.052	PK	41.7	19.0	0.2	60.9	-19.1	33.3	52.4
0.103	PK	30.3	19.0	0.3	49.6	-30.4	27.3	57.7
*0.138	PK	67.8	19.0	0.3	87.1	7.1	24.8	17.7
*0.146	PK	73.7	19.0	0.3	93.0	13.0	24.3	11.3
0.269	PK	26.9	19.0	0.3	46.2	-33.8	19.0	52.8
0.419	PK	48.0	18.9	0.3	67.2	-12.8	15.2	28.0
0.717	PK	39.0	18.9	0.3	58.2	18.2	30.5	12.3
1.016	PK	32.1	18.9	0.5	51.5	11.5	27.5	16.0

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
25.015	PK	13.7	20.1	1.4	35.2	-4.8	29.5	34.3

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

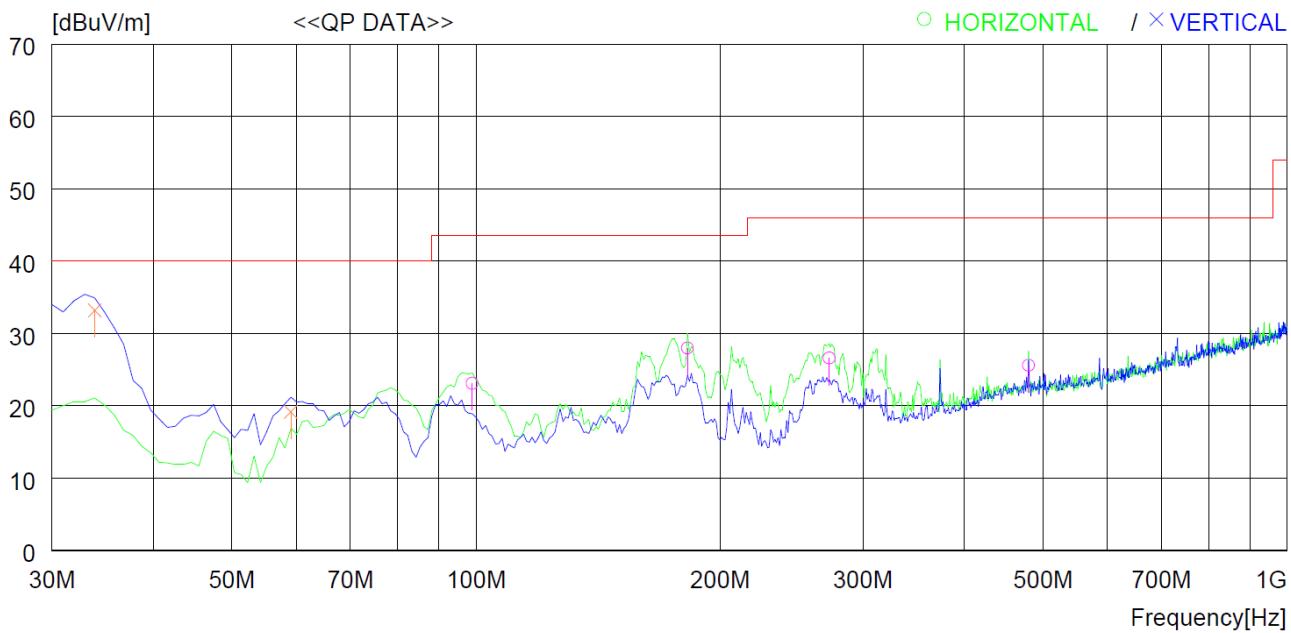
### 7.23.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP	ANT FACTOR	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	98.870	38.1	15.2	2.9	33.1	23.1	43.5	20.4	200	50
2	182.290	40.7	16.6	3.7	33.0	28.0	43.5	15.5	200	0
3	272.500	36.1	18.8	4.6	32.9	26.6	46.0	19.4	100	71
4	480.081	29.1	23.4	6.2	33.1	25.6	46.0	20.4	200	341
<hr/>										
----- Vertical -----										
5	33.880	44.7	19.8	1.8	33.1	33.2	40.0	6.8	100	0
6	59.100	37.7	12.2	2.4	33.1	19.2	40.0	20.8	100	12

**7.24 Test data for Mode 21 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))**
**7.24.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

---

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.015	PK	37.1	19.0	0.2	56.3	-23.7	44.1	67.8
0.035	PK	42.2	19.0	0.2	61.4	-18.6	36.7	55.3
0.047	PK	27.7	19.0	0.2	46.9	-33.1	34.2	67.3
0.069	PK	35.5	19.0	0.2	54.7	-25.3	30.8	56.1
0.104	PK	27.9	19.0	0.3	47.2	-32.8	27.3	60.1
*0.138	PK	63.3	19.0	0.3	82.6	2.6	24.8	22.2
*0.146	PK	66.5	19.0	0.3	85.8	5.8	24.3	18.5
0.419	PK	45.1	18.9	0.3	64.3	-15.7	15.2	30.9
0.717	PK	35.7	18.9	0.3	54.9	14.9	30.5	15.6
1.016	PK	30.0	18.9	0.5	49.4	9.4	27.5	18.1
1.314	PK	25.9	18.9	0.4	45.2	5.2	25.2	20.0

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
25.015	PK	15.6	20.1	1.4	37.1	-2.9	29.5	32.4

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

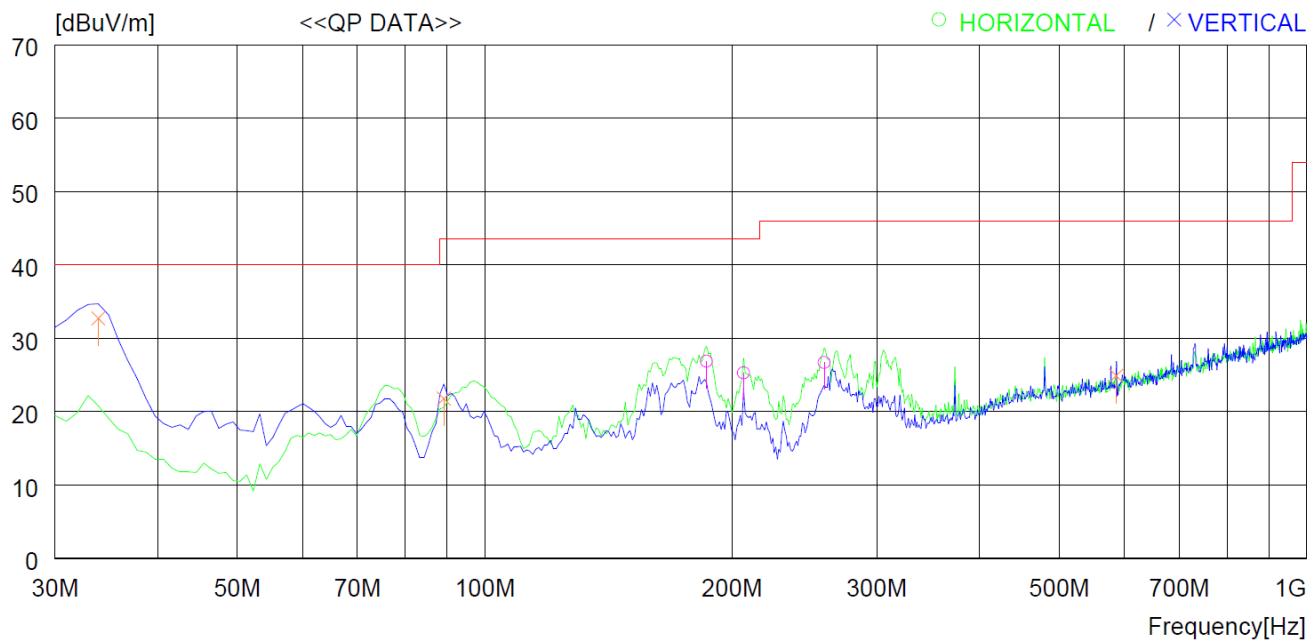
### 7.24.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	186.170	39.8	16.3	3.8	33.0	26.9	43.5	16.6	200	276
2	206.540	38.6	15.7	4.0	33.0	25.3	43.5	18.2	200	359
3	258.920	36.8	18.3	4.5	32.9	26.7	46.0	19.3	100	0
<hr/>										
----- Vertical -----										
4	33.880	44.2	19.8	1.8	33.1	32.7	40.0	7.3	100	359
5	89.170	38.4	13.7	2.8	33.1	21.8	43.5	21.7	100	6
6	586.778	27.0	24.2	6.9	33.2	24.9	46.0	21.1	100	210

**7.25 Test data for Mode 22 (Ant-A : None (138.0 kHz) / B : None (145.5 kHz) / C : None (145.5 kHz))**
**7.25.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 53.5 % R.H. Temperature: 22.5 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency Range : 9 kHz ~ 30 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 300m (dB $\mu$ V/m)	Limit at 300m (dB $\mu$ V/m)	Margin (dB)
0.016	PK	36.3	19.0	0.2	55.5	-24.5	43.5	68.0
0.031	PK	37.6	19.0	0.2	56.8	-23.2	37.8	61.0
0.047	PK	27.6	19.0	0.2	46.8	-33.2	34.2	67.4
0.086	PK	32.5	19.0	0.3	51.8	-28.2	28.9	57.1
*0.138	PK	73.0	19.0	0.3	92.3	12.3	24.8	12.5
*0.146	PK	73.7	19.0	0.3	93.0	13.0	24.3	11.3
0.419	PK	53.1	18.9	0.3	72.3	-7.7	15.2	22.9
0.717	PK	41.4	18.9	0.3	60.6	20.6	30.5	9.9
1.016	PK	35.8	18.9	0.5	55.2	15.2	27.5	12.3
1.314	PK	31.8	18.9	0.4	51.1	11.1	25.2	14.1
1.583	PK	28.8	18.9	0.3	48.0	8.0	23.6	15.6

Frequency (MHz)	Detector	Reading (dB $\mu$ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB $\mu$ V/m)	Emission Level at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
27.045	PK	10.8	20.2	1.5	32.5	-7.5	29.5	37.0

-. \*\*" Means Fundamental frequency

- . Emission Level at 3m [dB  $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

- . Margin [dB] = Emission Level at 300m [dB $\mu$ V/m] – Limit at 300m [dB $\mu$ V/m]

= Emission Level at 300m [dB $\mu$ V/m] – Limit at 30m [dB $\mu$ V/m]

- . Emission Level at 300m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

- . Emission Level at 30m [dB $\mu$ V/m] = Emission Level at 3m [dB $\mu$ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

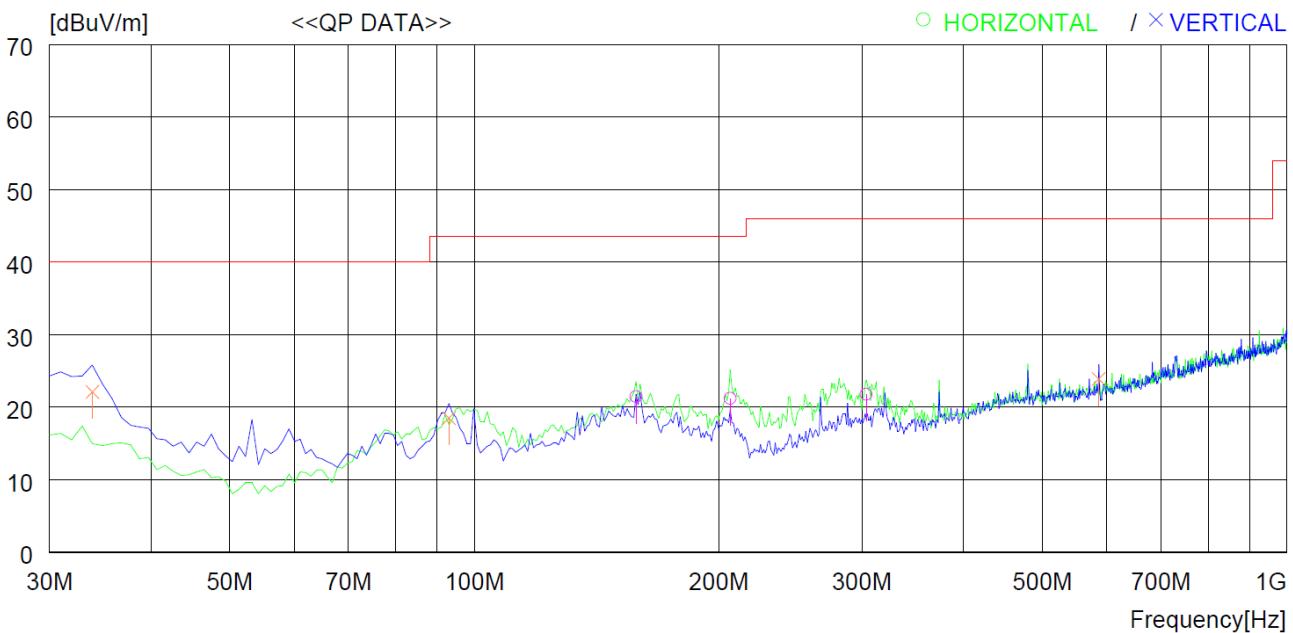
### 7.25.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level	: <u>53.5 % R.H.</u>	Temperature: <u>22.5 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART C, SECTION 15.209</u>	
Frequency range	: 30 MHz ~ 1 000 MHz	
Result	: <u>PASSED</u>	

EUT : WIRELESS CHARGER

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
<hr/>										
----- Horizontal -----										
1	158.040	33.5	18.0	3.0	33.0	21.5	43.5	22.0	200	359
2	206.540	35.1	15.7	3.4	33.0	21.2	43.5	22.3	200	359
3	303.540	31.1	19.5	4.1	32.9	21.8	46.0	24.2	100	0
<hr/>										
----- Vertical -----										
4	33.880	34.0	19.8	1.4	33.1	22.1	40.0	17.9	100	237
5	93.050	35.1	14.2	2.3	33.1	18.5	43.5	25.0	100	6
6	586.778	27.1	24.2	5.8	33.2	23.9	46.0	22.1	100	198

## 8. CONDUCTED EMISSION TEST

### 8.1 Operating environment

Temperature : 22.5 °C  
Relative humidity : 52.6 % R.H

### 8.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a  $50 \Omega / 50 \mu\text{H} + 5 \Omega$  Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

### 8.3 Test equipment used

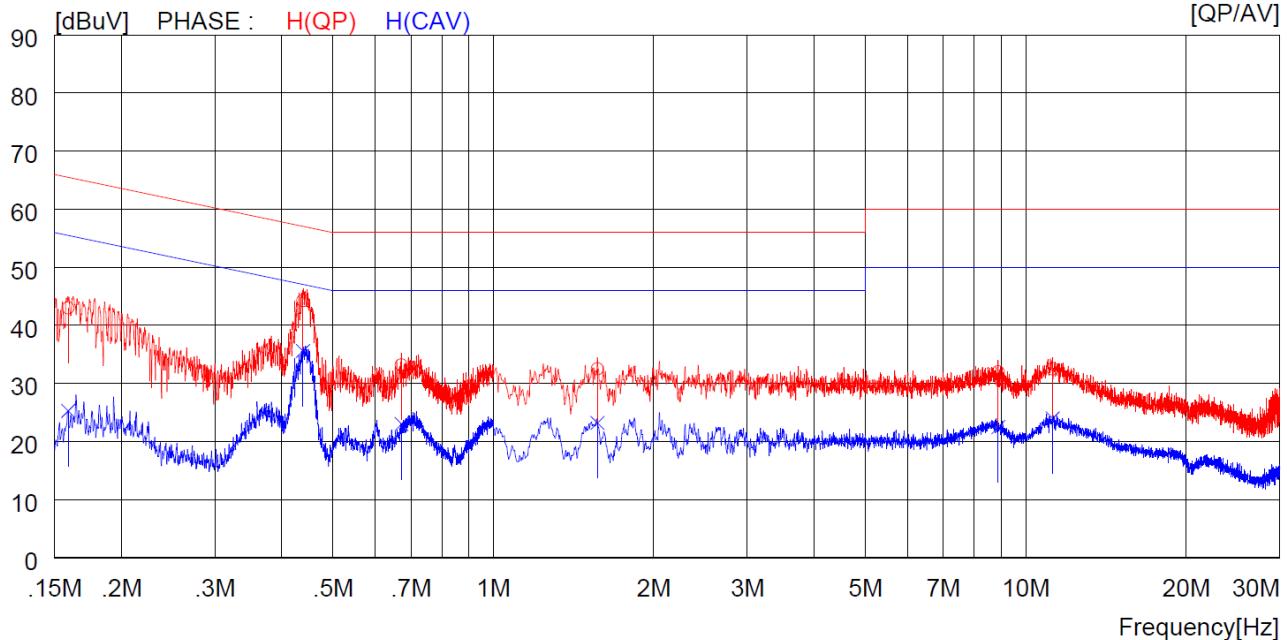
All test equipment used is calibrated on a regular basis.

### 8.4 Test date

August 08, 2022

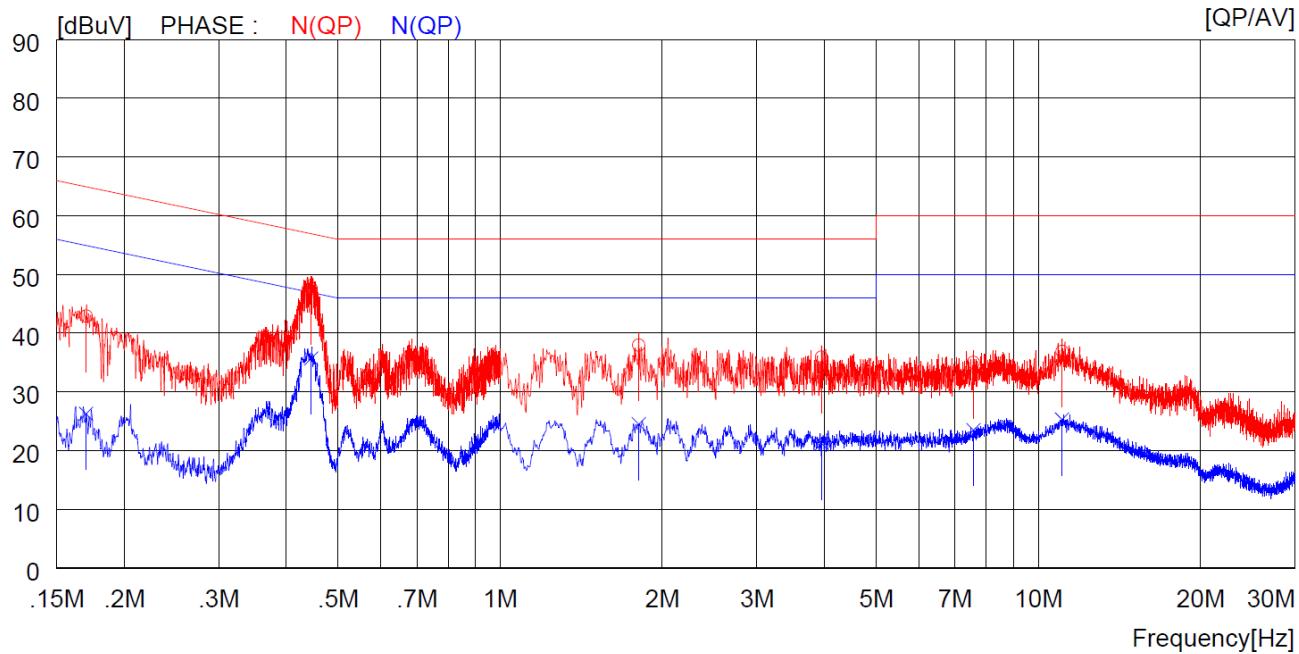
### 8.5 Test data for Mode 1 (Ant-A : Earphones (127.7 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15900	33.0	----	10.0	43.0	----	65.5	----	22.5	----	H (QP)
2	0.43900	34.3	----	10.0	44.3	----	57.1	----	12.8	----	H (QP)
3	0.67200	23.2	----	10.0	33.2	----	56.0	----	22.8	----	H (QP)
4	1.56800	22.4	----	10.1	32.5	----	56.0	----	23.5	----	H (QP)
5	8.88000	21.8	----	10.2	32.0	----	60.0	----	28.0	----	H (QP)
6	11.23000	22.3	----	10.2	32.5	----	60.0	----	27.5	----	H (QP)
7	0.15900	----	15.3	10.0	----	25.3	----	55.5	----	30.2	H (CAV)
8	0.43900	----	25.6	10.0	----	35.6	----	47.1	----	11.5	H (CAV)
9	0.67200	----	13.0	10.0	----	23.0	----	46.0	----	23.0	H (CAV)
10	1.56800	----	13.1	10.1	----	23.2	----	46.0	----	22.8	H (CAV)
11	8.88000	----	12.3	10.2	----	22.5	----	50.0	----	27.5	H (CAV)
12	11.23000	----	13.8	10.2	----	24.0	----	50.0	----	26.0	H (CAV)

- Tested Line : NEUTRAL LINE



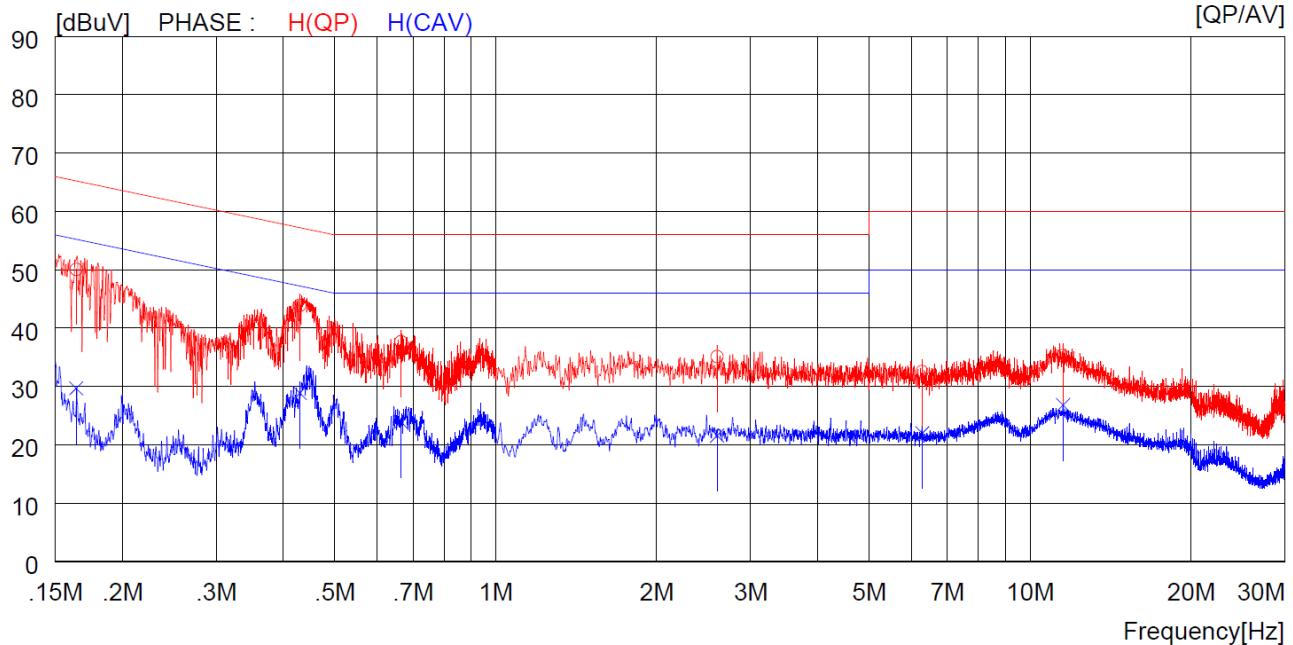
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17000	32.9	----	10.0	42.9	----	65.0	----	22.1	----	N (QP)
2	0.44500	37.6	----	10.0	47.6	----	57.0	----	9.4	----	N (QP)
3	1.80800	27.9	----	10.1	38.0	----	56.0	----	18.0	----	N (QP)
4	3.95600	25.8	----	10.1	35.9	----	56.0	----	20.1	----	N (QP)
5	7.57000	24.8	----	10.2	35.0	----	60.0	----	25.0	----	N (QP)
6	11.07000	26.7	----	10.2	36.9	----	60.0	----	23.1	----	N (QP)
7	0.17000	----	16.3	10.0	----	26.3	----	55.0	----	28.7	N (CAV)
8	0.44500	----	25.7	10.0	----	35.7	----	47.0	----	11.3	N (CAV)
9	1.80800	----	14.4	10.1	----	24.5	----	46.0	----	21.5	N (CAV)
10	3.95600	----	11.1	10.1	----	21.2	----	46.0	----	24.8	N (CAV)
11	7.57000	----	13.3	10.2	----	23.5	----	50.0	----	26.5	N (CAV)
12	11.07000	----	15.1	10.2	----	25.3	----	50.0	----	24.7	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

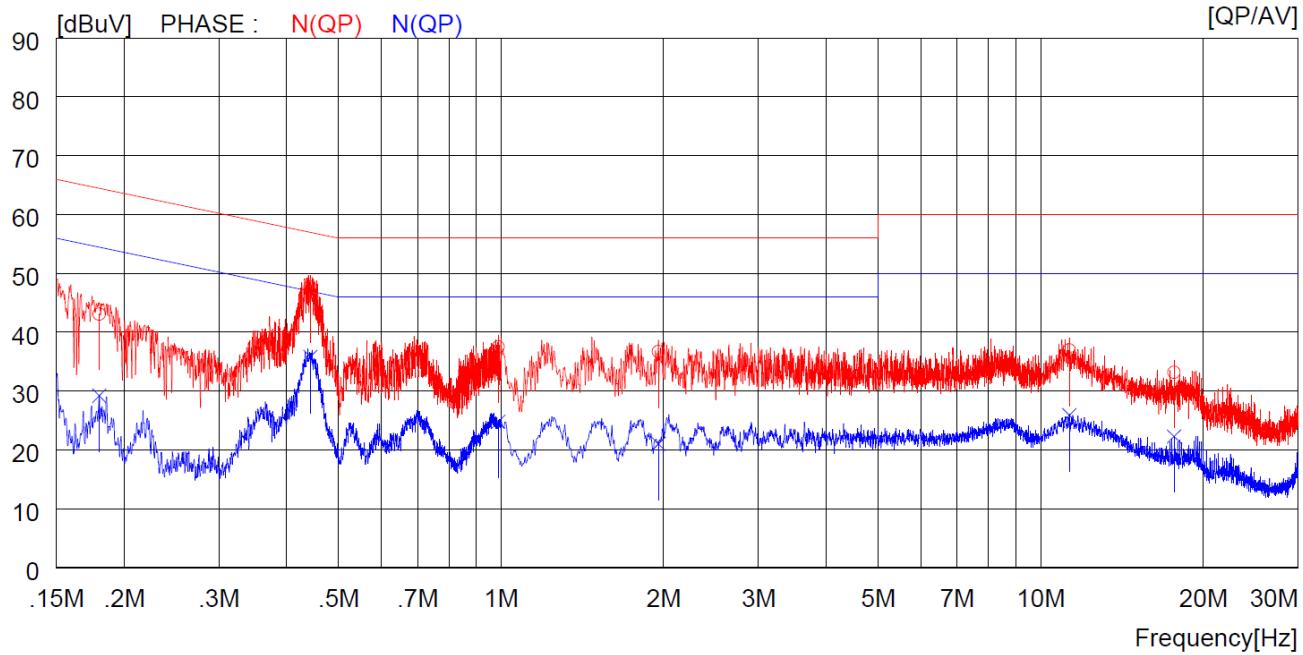
### 8.6 Test data for Mode 2 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16400	40.1	----	10.0	50.1	----	65.3	----	15.2	----	H (QP)
2	0.43000	33.9	----	10.0	43.9	----	57.3	----	13.4	----	H (QP)
3	0.66500	27.7	----	10.0	37.7	----	56.0	----	18.3	----	H (QP)
4	2.59600	25.0	----	10.1	35.1	----	56.0	----	20.9	----	H (QP)
5	6.28500	22.4	----	10.2	32.6	----	60.0	----	27.4	----	H (QP)
6	11.52000	25.1	----	10.2	35.3	----	60.0	----	24.7	----	H (QP)
7	0.16400	19.7	10.0	----	29.7	----	55.3	----	25.6	----	H (CAV)
8	0.43000	18.9	10.0	----	28.9	----	47.3	----	18.4	----	H (CAV)
9	0.66500	13.9	10.0	----	23.9	----	46.0	----	22.1	----	H (CAV)
10	2.59600	11.5	10.1	----	21.6	----	46.0	----	24.4	----	H (CAV)
11	6.28500	11.8	10.2	----	22.0	----	50.0	----	28.0	----	H (CAV)
12	11.52000	16.6	10.2	----	26.8	----	50.0	----	23.2	----	H (CAV)

- Tested Line : NEUTRAL LINE



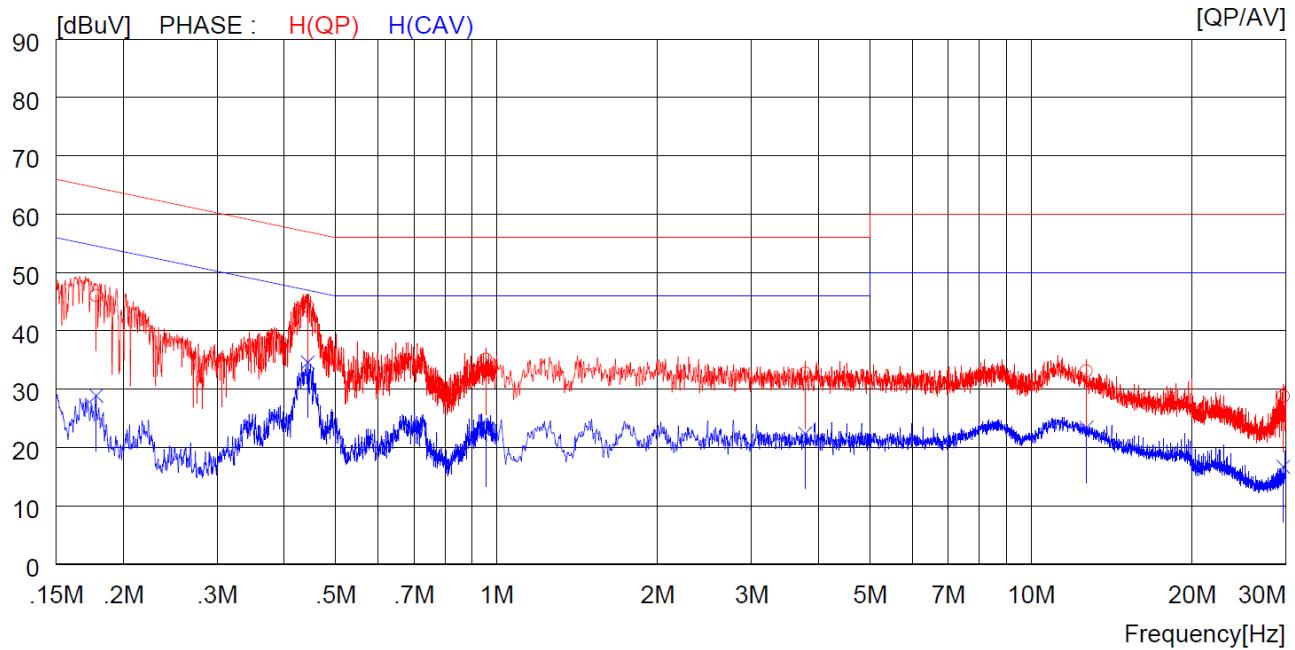
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18000	33.1	----	10.0	43.1	----	64.5	----	21.4	----	N (QP)
2	0.44300	37.7	----	10.0	47.7	----	57.0	----	9.3	----	N (QP)
3	0.98800	27.5	----	10.0	37.5	----	56.0	----	18.5	----	N (QP)
4	1.95600	26.6	----	10.1	36.7	----	56.0	----	19.3	----	N (QP)
5	11.30000	26.8	----	10.2	37.0	----	60.0	----	23.0	----	N (QP)
6	17.66000	22.9	----	10.3	33.2	----	60.0	----	26.8	----	N (QP)
7	0.18000	----	19.2	10.0	----	29.2	----	54.5	----	25.3	N (CAV)
8	0.44300	----	25.8	10.0	----	35.8	----	47.0	----	11.2	N (CAV)
9	0.98800	----	14.8	10.0	----	24.8	----	46.0	----	21.2	N (CAV)
10	1.95600	----	10.9	10.1	----	21.0	----	46.0	----	25.0	N (CAV)
11	11.30000	----	15.7	10.2	----	25.9	----	50.0	----	24.1	N (CAV)
12	17.66000	----	12.0	10.3	----	22.3	----	50.0	----	27.7	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

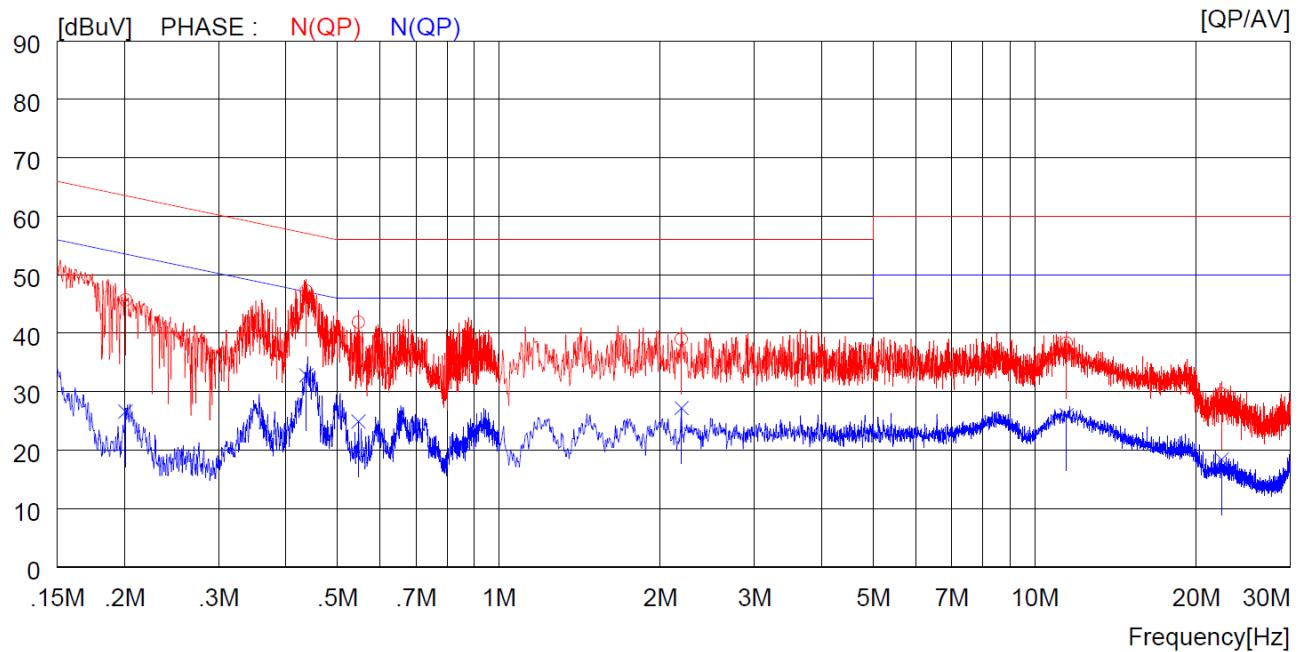
### 8.7 Test data for Mode 3 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17800	36.1	----	10.0	46.1	----	64.6	----	18.5	----	H (QP)
2	0.44300	34.2	----	10.0	44.2	----	57.0	----	12.8	----	H (QP)
3	0.95400	25.1	----	10.0	35.1	----	56.0	----	20.9	----	H (QP)
4	3.77600	22.6	----	10.1	32.7	----	56.0	----	23.3	----	H (QP)
5	12.69000	22.9	----	10.2	33.1	----	60.0	----	26.9	----	H (QP)
6	29.63000	18.1	----	10.7	28.8	----	60.0	----	31.2	----	H (QP)
7	0.17800	18.9	10.0	----	28.9	----	54.6	----	25.7	----	H (CAV)
8	0.44300	24.6	10.0	----	34.6	----	47.0	----	12.4	----	H (CAV)
9	0.95400	12.8	10.0	----	22.8	----	46.0	----	23.2	----	H (CAV)
10	3.77600	12.3	10.1	----	22.4	----	46.0	----	23.6	----	H (CAV)
11	12.69000	13.2	10.2	----	23.4	----	50.0	----	26.6	----	H (CAV)
12	29.63000	6.0	10.7	----	16.7	----	50.0	----	33.3	----	H (CAV)

- Tested Line : NEUTRAL LINE



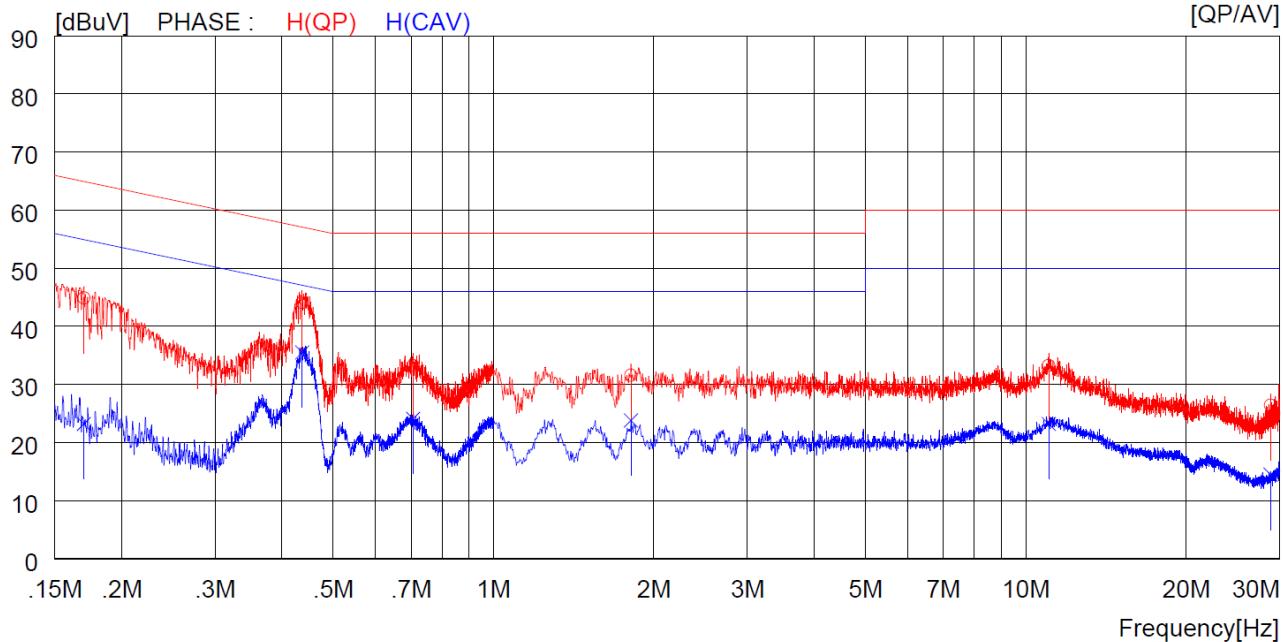
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.20100	35.7	----	10.0	45.7	----	63.6	----	17.9	----	N (QP)
2	0.43700	37.2	----	10.0	47.2	----	57.1	----	9.9	----	N (QP)
3	0.54700	31.9	----	10.0	41.9	----	56.0	----	14.1	----	N (QP)
4	2.19200	28.9	----	10.1	39.0	----	56.0	----	17.0	----	N (QP)
5	11.46000	28.1	----	10.2	38.3	----	60.0	----	21.7	----	N (QP)
6	22.32000	19.1	----	10.5	29.6	----	60.0	----	30.4	----	N (QP)
7	0.20100	----	16.6	10.0	----	26.6	----	53.6	----	27.0	N (CAV)
8	0.43700	----	22.8	10.0	----	32.8	----	47.1	----	14.3	N (CAV)
9	0.54700	----	14.9	10.0	----	24.9	----	46.0	----	21.1	N (CAV)
10	2.19200	----	17.1	10.1	----	27.2	----	46.0	----	18.8	N (CAV)
11	11.46000	----	15.8	10.2	----	26.0	----	50.0	----	24.0	N (CAV)
12	22.32000	----	7.9	10.5	----	18.4	----	50.0	----	31.6	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

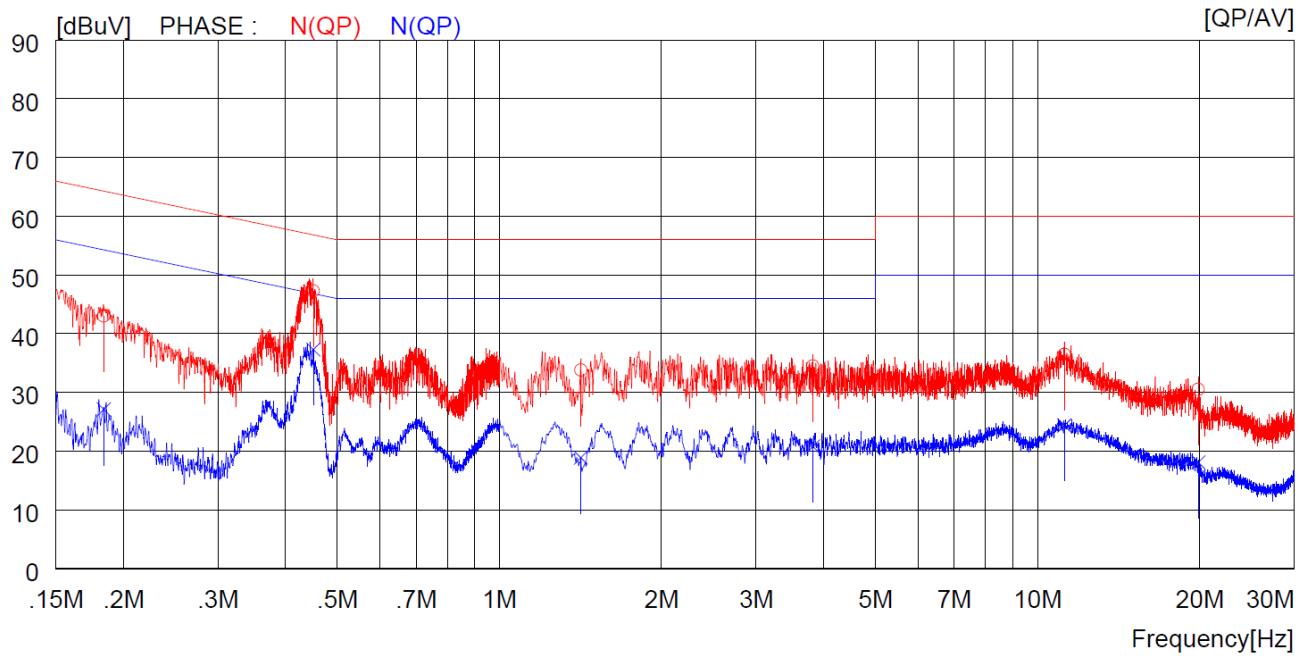
### 8.8 Test data for Mode 4 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (120.5 kHz) / C : Watch (145.5 kHz))

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17000	34.9	----	10.0	44.9	----	65.0	----	20.1	----	H (QP)
2	0.43700	34.1	----	10.0	44.1	----	57.1	----	13.0	----	H (QP)
3	0.70600	23.3	----	10.0	33.3	----	56.0	----	22.7	----	H (QP)
4	1.81200	21.5	----	10.1	31.6	----	56.0	----	24.4	----	H (QP)
5	11.05000	23.1	----	10.2	33.3	----	60.0	----	26.7	----	H (QP)
6	28.82000	15.7	----	10.7	26.4	----	60.0	----	33.6	----	H (QP)
7	0.17000	----	13.2	10.0	----	23.2	----	55.0	----	31.8	H (CAV)
8	0.43700	----	25.5	10.0	----	35.5	----	47.1	----	11.6	H (CAV)
9	0.70600	----	14.1	10.0	----	24.1	----	46.0	----	21.9	H (CAV)
10	1.81200	----	13.7	10.1	----	23.8	----	46.0	----	22.2	H (CAV)
11	11.05000	----	13.0	10.2	----	23.2	----	50.0	----	26.8	H (CAV)
12	28.82000	----	3.8	10.7	----	14.5	----	50.0	----	35.5	H (CAV)

- Tested Line : NEUTRAL LINE



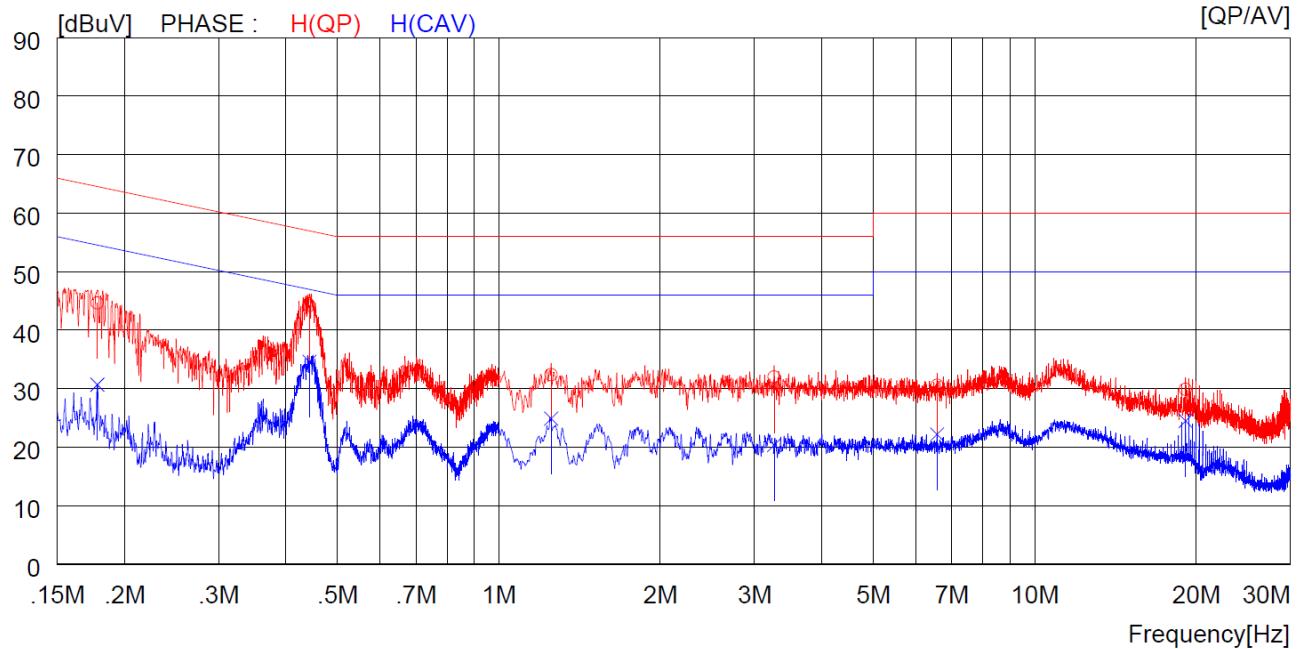
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18400	33.0	----	10.0	43.0	----	64.3	----	21.3	----	N (QP)
2	0.45100	37.3	----	10.0	47.3	----	56.9	----	9.6	----	N (QP)
3	1.41600	23.7	----	10.1	33.8	----	56.0	----	22.2	----	N (QP)
4	3.82400	24.4	----	10.1	34.5	----	56.0	----	21.5	----	N (QP)
5	11.21000	26.3	----	10.2	36.5	----	60.0	----	23.5	----	N (QP)
6	19.89000	20.1	----	10.4	30.5	----	60.0	----	29.5	----	N (QP)
7	0.18400	----	17.1	10.0	----	27.1	----	54.3	----	27.2	N (CAV)
8	0.45100	----	27.3	10.0	----	37.3	----	46.9	----	9.6	N (CAV)
9	1.41600	----	8.8	10.1	----	18.9	----	46.0	----	27.1	N (CAV)
10	3.82400	----	10.7	10.1	----	20.8	----	46.0	----	25.2	N (CAV)
11	11.21000	----	14.2	10.2	----	24.4	----	50.0	----	25.6	N (CAV)
12	19.89000	----	7.7	10.4	----	18.1	----	50.0	----	31.9	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

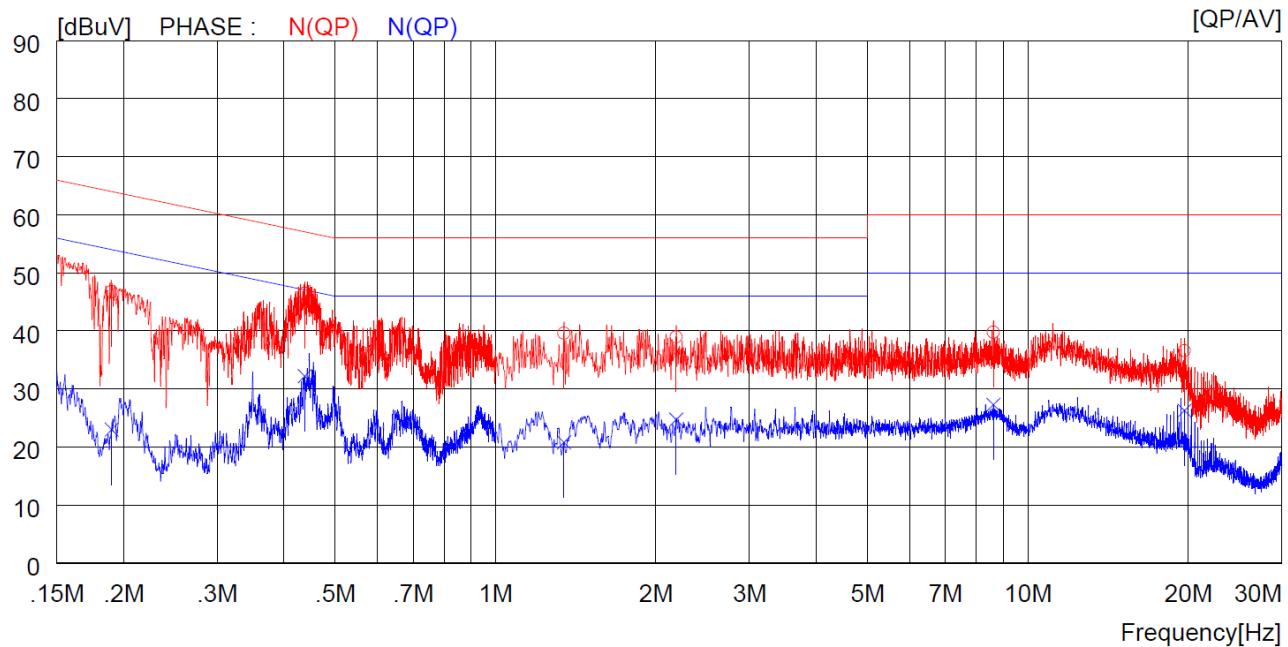
### 8.9 Test data for Mode 5 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17800	34.7	----	10.0	44.7	----	64.6	----	19.9	----	H (QP)
2	0.44300	34.2	----	10.0	44.2	----	57.0	----	12.8	----	H (QP)
3	1.25200	22.3	----	10.1	32.4	----	56.0	----	23.6	----	H (QP)
4	3.26000	21.9	----	10.1	32.0	----	56.0	----	24.0	----	H (QP)
5	6.57000	20.4	----	10.2	30.6	----	60.0	----	29.4	----	H (QP)
6	19.12000	19.5	----	10.4	29.9	----	60.0	----	30.1	----	H (QP)
7	0.17800	-----	20.7	10.0	-----	30.7	-----	54.6	-----	23.9	H (CAV)
8	0.44300	-----	24.6	10.0	-----	34.6	-----	47.0	-----	12.4	H (CAV)
9	1.25200	-----	14.8	10.1	-----	24.9	-----	46.0	-----	21.1	H (CAV)
10	3.26000	-----	10.3	10.1	-----	20.4	-----	46.0	-----	25.6	H (CAV)
11	6.57000	-----	12.0	10.2	-----	22.2	-----	50.0	-----	27.8	H (CAV)
12	19.12000	-----	14.1	10.4	-----	24.5	-----	50.0	-----	25.5	H (CAV)

- Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.19000	36.8	----	10.0	46.8	----	64.0	----	17.2	----	N (QP)
2	0.43800	36.5	----	10.0	46.5	----	57.1	----	10.6	----	N (QP)
3	1.34400	29.5	----	10.1	39.6	----	56.0	----	16.4	----	N (QP)
4	2.18400	28.9	----	10.1	39.0	----	56.0	----	17.0	----	N (QP)
5	8.61000	29.6	----	10.2	39.8	----	60.0	----	20.2	----	N (QP)
6	19.70000	26.2	----	10.4	36.6	----	60.0	----	23.4	----	N (QP)
7	0.19000	----	13.0	10.0	----	23.0	----	54.0	----	31.0	N (CAV)
8	0.43800	----	22.2	10.0	----	32.2	----	47.1	----	14.9	N (CAV)
9	1.34400	----	10.7	10.1	----	20.8	----	46.0	----	25.2	N (CAV)
10	2.18400	----	14.6	10.1	----	24.7	----	46.0	----	21.3	N (CAV)
11	8.61000	----	17.1	10.2	----	27.3	----	50.0	----	22.7	N (CAV)
12	19.70000	----	15.9	10.4	----	26.3	----	50.0	----	23.7	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.