

Prüfbericht-Nr.: <i>Test report no.:</i>	CN245SJJ 001	Auftrags-Nr.: <i>Order no.:</i>	168511326	Seite 1 von 15 <i>Page 1 of 15</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-11-01	
Auftraggeber: <i>Client:</i>	CE LINK LIMITED 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong Province, China			
Prüfgegenstand: <i>Test item:</i>	QI2 Wireless Charger			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MPP23-1TCNC-J, 39-3971, AL31WCPA-WH (Trademark: CE-LINK, )			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-10-29	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	EST-241029019-001			
Prüfzeitraum: <i>Testing period:</i>	2024-11-01 - 2024-11-15			
Ort der Prüfung: <i>Place of testing:</i>	EST Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	X 	genehmigt von: <i>authorized by:</i>	X 	
Datum: <i>Date:</i>	2025-01-02 Signed by: Breeze Jiang	Ausstellungsdatum: <i>Issue date:</i>	2025-01-02 Signed by: Jonathan Li	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: A4X-MPP23-1TCNC-J			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.3 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of FCC Part 15C.

Appendix B: Photographs of the Test Set-up.

2 Test Sites

2.1 Test Facilities

EST Technology Co., Ltd.

Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

A2LA Registration No.: 4366.01

FCC Accreditation Designation No.: CN1215

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

For radiated emission test (Below 30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	June 11,24	1 Year
Active Loop Antenna	SCHWARZBECK	FMZB1519B	EST-E054	June 11,24	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

For radiated emission test (30MHz-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	June 11,24	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	June 11,24	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	June 11,24	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	June 11,24	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	June 11,24	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Table 2: Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.44\text{dB}$
Uncertainty for spurious emissions test	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for Bandwidth test	7×10^{-8}
Uncertainty for EMF	5.03 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The EST Technology Co., Ltd. Test facility located at Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

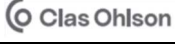
The EUT is a Qi2 Wireless Charger, which supports wireless charging (WPT) function.

The models have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, except the different model number.

For details refer to the User Manual.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Qi2 Wireless Charger
Type Designation:	MPP23-1TCNC-J, 39-3971, AL31WCPA-WH
Trademark:	CE-LINK, 
FCC ID:	A4X-MPP23-1TCNC-J
Operating Voltage:	Input: Type-C DC12V 3A
Test Voltage:	AC 120V, 60Hz (DC 12V By USB Host Unit)
Operating Temperature Range:	0 °C ~ +35 °C
Technical Specification of WPT	
Frequency Range:	110.5 kHz to 205 kHz & 0.1485 to 5 MHz
Operating Frequency:	110.5 kHz to 205 kHz (Output 1: 5W, 7.5W; Output 2: 5W), 326.5 kHz (Output 3: 3W), 360 kHz (Output 1: 15W), 1.778 MHz (Output 3: 3W)
Type of Modulation:	FSK
Antenna Type:	Inductive Loop Coil Antenna
Antenna Gain:	0 dBi (Provided by the Client)
Wireless output power:	Output 1: 15W (Qi2 module CE-222J), Output 2: 5W (AirPods), Output 3: 3W (Apple Watch)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless Charging
 - 1. Output 1: 5W
 - 2. Output 1: 7.5W
 - 3. Output 1: 15W
 - 4. Output 2: 5W
 - 5. Output 3: 3W
 - 6. Output 1: 5W+ Output 2: 5W+ Output 3: 3W
 - 7. Output 1: 7.5W+ Output 2: 5W+ Output 3: 3W
 - 8. Output 1: 15W+ Output 2: 5W+ Output 3: 3W
 - 9.
- B. Off

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3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - ID Label and Location Info |
| - Block Diagram | - PCB Layout |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model MPP23-1TCNC-J in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Rating
Adapter	Apple	A1882	Input: 100-240V.0.75A Output: 20V/1.5A, 15V/2A, 9V/3A, 5V/3A
Watch	Apple	Apple watch series 8	N/A
Wireless Load	YBZ	EST-001	Output: BPP(5W), IPHONE(7.5W), Samsung(10W), EPP(15W)

Description	Remark
Type-C-Cable	1m, Unshielded, Detachable

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

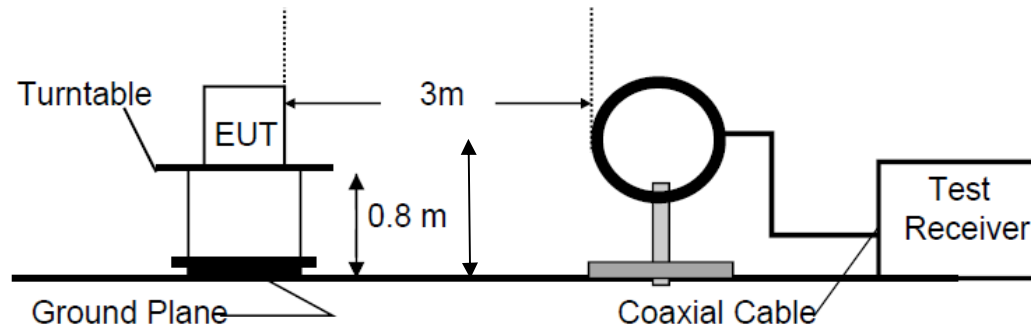


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

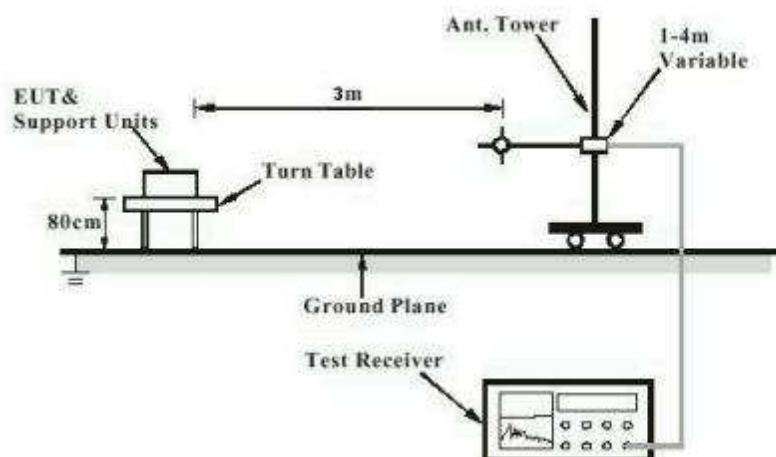
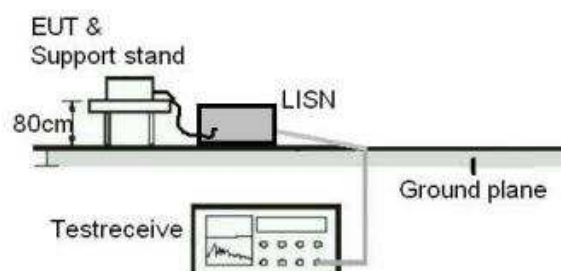


Diagram of Measurement Configuration for Mains Conduction Measurement



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5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : Part 15.203
the use of antennas with directional gains that do not
exceed 6 dBi

According to the manufacturer declared, the EUT has one internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	FCC Part 15.209 & 15.205
Basic standard	ANSI C63.10: 2013
Limits	Refer to 15.209(a)
Kind of test site	3m Semi-anechoic Chamber

Test Setup

Date of testing	2024-11-01 to 2024-11-15
Input voltage	AC 120V, 60Hz
Operation mode	A
Ambient temperature	Refer to test result
Relative humidity	Refer to test result
Atmospheric pressure	Refer to test result

For the measurement records, refer to the appendix A.

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5.1.3 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-11-02
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Earthing	: Not connected
Ambient temperature	: 25.1 °C
Relative humidity	: 59 %
Atmospheric pressure	: 101.5 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

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Appendix A: Test Results of FCC Part 15C

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Appendix A.1: Test Results of Radiated Spurious Emission

Below 30MHz

Note: The highest waveform in the figure is Fundamental.

Radiated Emission Test Result

Test Site : 2# 966 chamber

Test Date : 2024-11-15

Tested By : Eric

EUT : QI2 Wireless Charger

Model Number : MPP23-1TCNC-J

Power Supply : DC 12V From Adapter Input AC
120V/60Hz

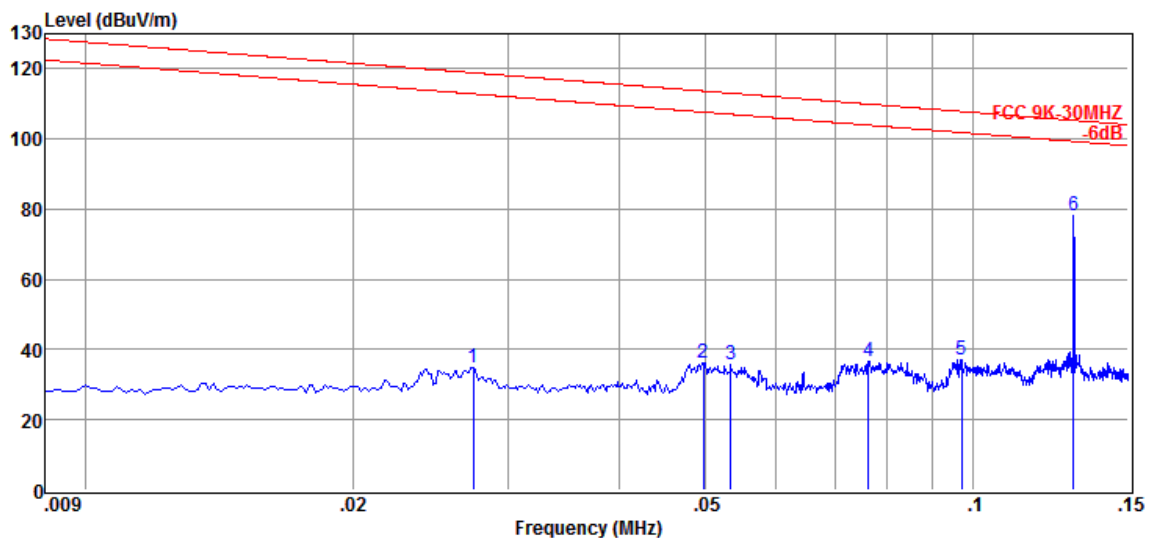
Test Mode : TX Mode

Condition : Temp:22.4'C;Humi:61.5%;Press:101.
33kPa

Polarization : COAXIAL

Memo : AirPods 5W

Data : 16



Item	Freq	Readin g	Antenn a Factor	Cable Loss	Emission Level	Limit Line	Margin	Detecto r	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.02733	14.90	19.80	0.03	34.73	118.87	84.14	Peak	COAXIAL
2	0.04975	16.43	19.80	0.03	36.26	113.67	77.41	Peak	COAXIAL
3	0.05342	15.84	19.80	0.03	35.67	113.05	77.38	Peak	COAXIAL
4	0.07640	16.99	19.80	0.03	36.82	109.94	73.12	Peak	COAXIAL
5	0.09727	17.25	19.90	0.03	37.18	107.85	70.67	Peak	COAXIAL
6	0.13012	57.96	20.10	0.03	78.09	105.32	27.23	Peak	COAXIAL

Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.

2. Margin = Limit - Emission Level.

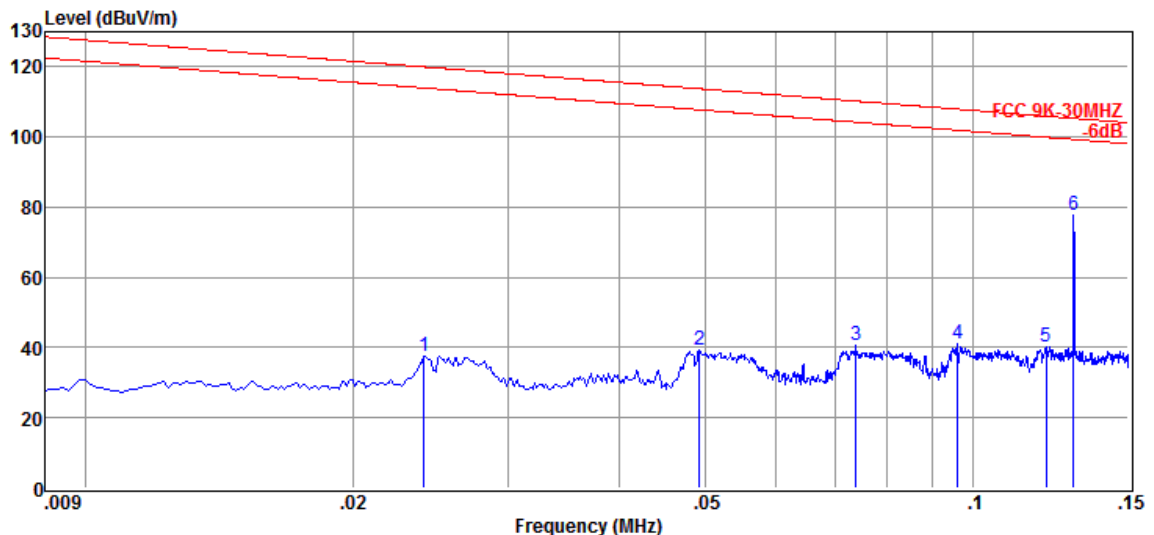
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-15
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 13



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.02409	17.61	19.80	0.03	37.44	119.97	82.53	Peak	COPLANAR
2	0.04919	19.30	19.80	0.03	39.13	113.77	74.64	Peak	COPLANAR
3	0.07386	20.79	19.80	0.03	40.62	110.24	69.62	Peak	COPLANAR
4	0.09628	20.98	19.90	0.03	40.91	107.93	67.02	Peak	COPLANAR
5	0.12110	20.00	20.10	0.03	40.13	105.94	65.81	Peak	COPLANAR
6	0.13012	57.76	20.10	0.03	77.89	105.32	27.43	Peak	COPLANAR

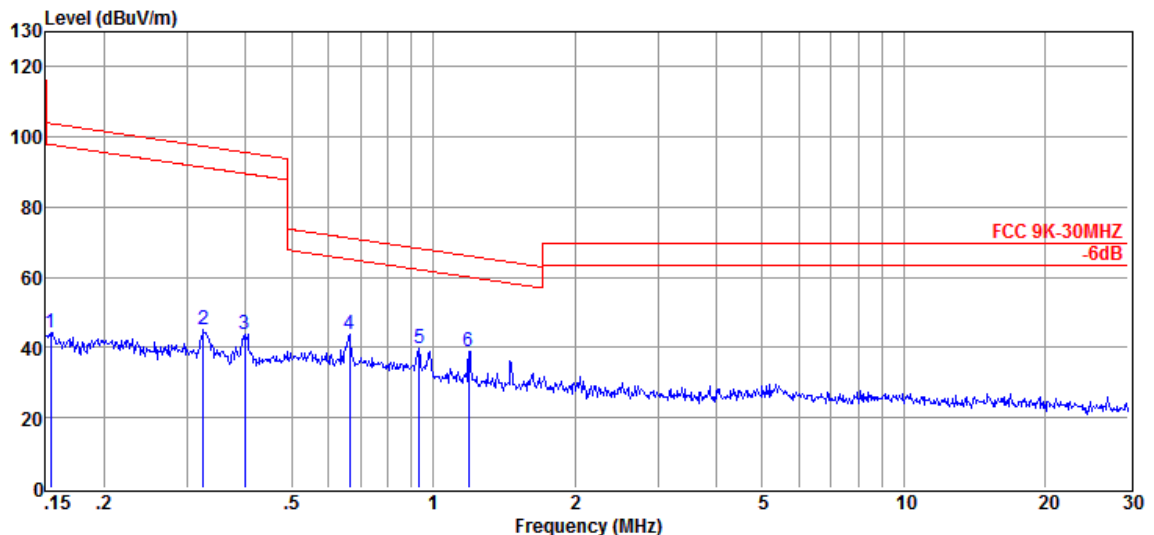
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4°C;Humi:61.5%;Press:101.33kPa
Memo : AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 15



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15403	24.15	20.00	0.03	44.18	103.85	59.67	Peak	COAXIAL
2	0.32512	24.95	19.95	0.03	44.93	97.36	52.43	Peak	COAXIAL
3	0.39763	23.88	19.93	0.03	43.84	95.61	51.77	Peak	COAXIAL
4	0.66478	23.93	19.86	0.07	43.86	71.15	27.29	Peak	COAXIAL
5	0.93314	19.94	19.81	0.07	39.82	68.21	28.39	Peak	COAXIAL
6	1.19100	18.93	19.82	0.07	38.82	66.09	27.27	Peak	COAXIAL

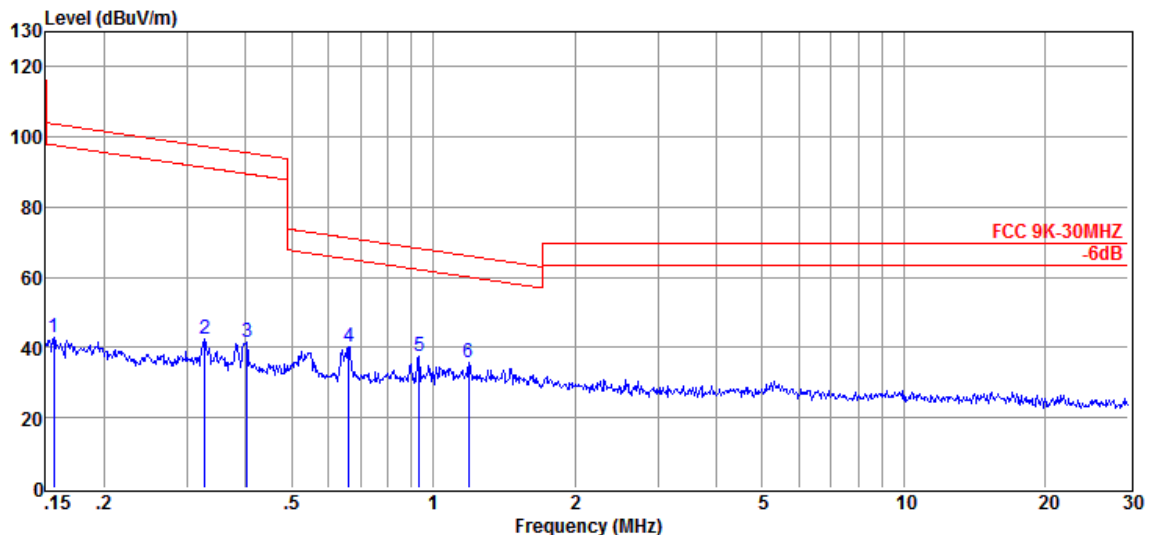
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 14



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15649	22.69	20.00	0.03	42.72	103.71	60.99	Peak	COPLANAR
2	0.32685	22.38	19.95	0.03	42.36	97.32	54.96	Peak	COPLANAR
3	0.40187	21.64	19.93	0.03	41.60	95.52	53.92	Peak	COPLANAR
4	0.66127	20.12	19.86	0.07	40.05	71.20	31.15	Peak	COPLANAR
5	0.93314	17.73	19.81	0.07	37.61	68.21	30.60	Peak	COPLANAR
6	1.19100	15.67	19.82	0.07	35.56	66.09	30.53	Peak	COPLANAR

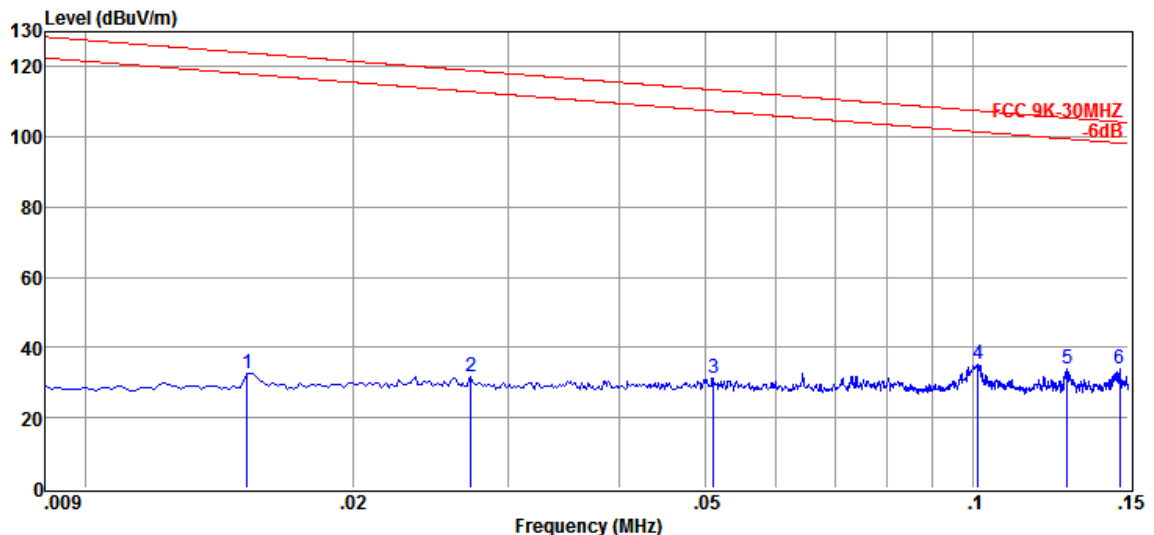
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : Apple Watch 3W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 17



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01520	12.98	19.70	0.03	32.71	123.97	91.26	Peak	COAXIAL
2	0.02719	12.06	19.80	0.03	31.89	118.92	87.03	Peak	COAXIAL
3	0.05102	11.53	19.80	0.03	31.36	113.45	82.09	Peak	COAXIAL
4	0.10150	15.26	19.90	0.03	35.19	107.48	72.29	Peak	COAXIAL
5	0.12800	13.86	20.10	0.03	33.99	105.46	71.47	Peak	COAXIAL
6	0.14662	13.99	20.00	0.03	34.02	104.28	70.26	Peak	COAXIAL

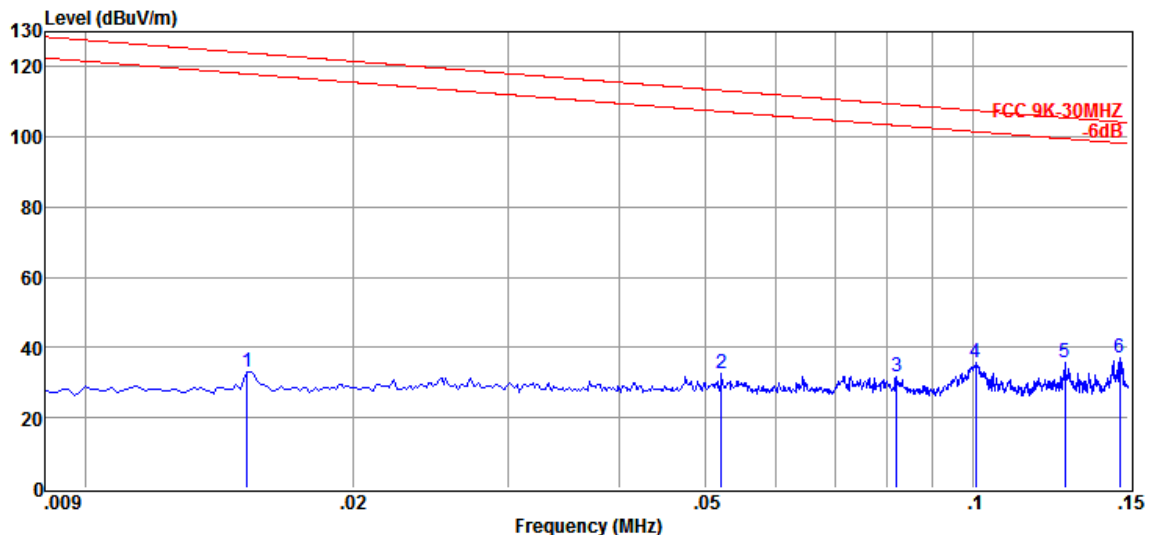
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : Apple Watch 3W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 20



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01520	13.23	19.70	0.03	32.96	123.97	91.01	Peak	COPLANAR
2	0.05215	12.67	19.80	0.03	32.50	113.26	80.76	Peak	COPLANAR
3	0.08218	12.05	19.80	0.03	31.88	109.31	77.43	Peak	COPLANAR
4	0.10093	15.70	19.90	0.03	35.63	107.52	71.89	Peak	COPLANAR
5	0.12716	15.81	20.10	0.03	35.94	105.52	69.58	Peak	COPLANAR
6	0.14662	17.22	20.00	0.03	37.25	104.28	67.03	Peak	COPLANAR

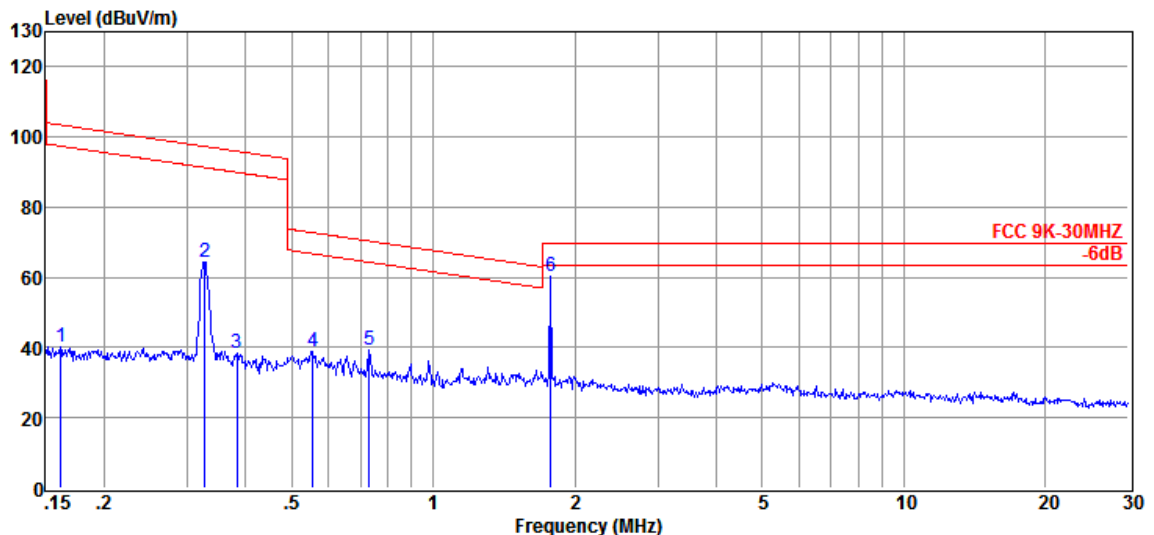
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : Apple Watch 3W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 18



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.16155	20.25	20.00	0.03	40.28	103.44	63.16	Peak	COAXIAL
2	0.32685	44.51	19.95	0.03	64.49	97.32	32.83	Peak	COAXIAL
3	0.38315	18.67	19.94	0.03	38.64	95.94	57.30	Peak	COAXIAL
4	0.55520	19.05	19.89	0.07	39.01	72.72	33.71	Peak	COAXIAL
5	0.73131	19.39	19.85	0.07	39.31	70.32	31.01	Peak	COAXIAL
6	1.78100	40.36	19.88	0.10	60.34	69.54	9.20	Peak	COAXIAL

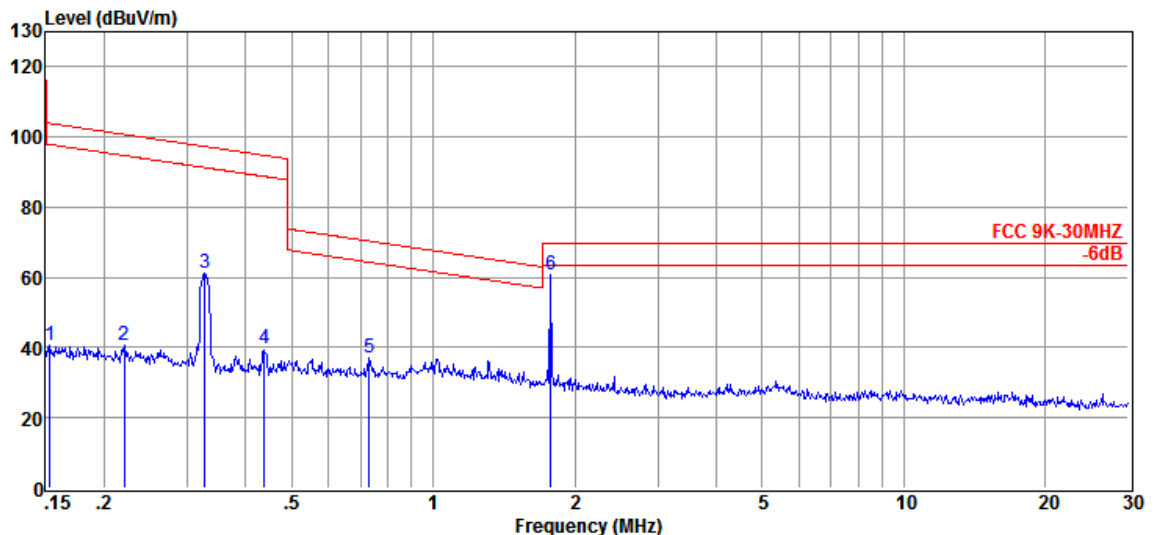
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : Apple Watch 3W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 19



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15321	20.68	20.00	0.03	40.71	103.90	63.19	Peak	COPLANAR
2	0.22083	20.61	19.98	0.03	40.62	100.72	60.10	Peak	COPLANAR
3	0.32685	41.11	19.95	0.03	61.09	97.32	36.23	Peak	COPLANAR
4	0.43742	19.98	19.92	0.03	39.93	94.79	54.86	Peak	COPLANAR
5	0.73131	16.95	19.85	0.07	36.87	70.32	33.45	Peak	COPLANAR
6	1.78100	40.76	19.88	0.10	60.74	69.54	8.80	Peak	COPLANAR

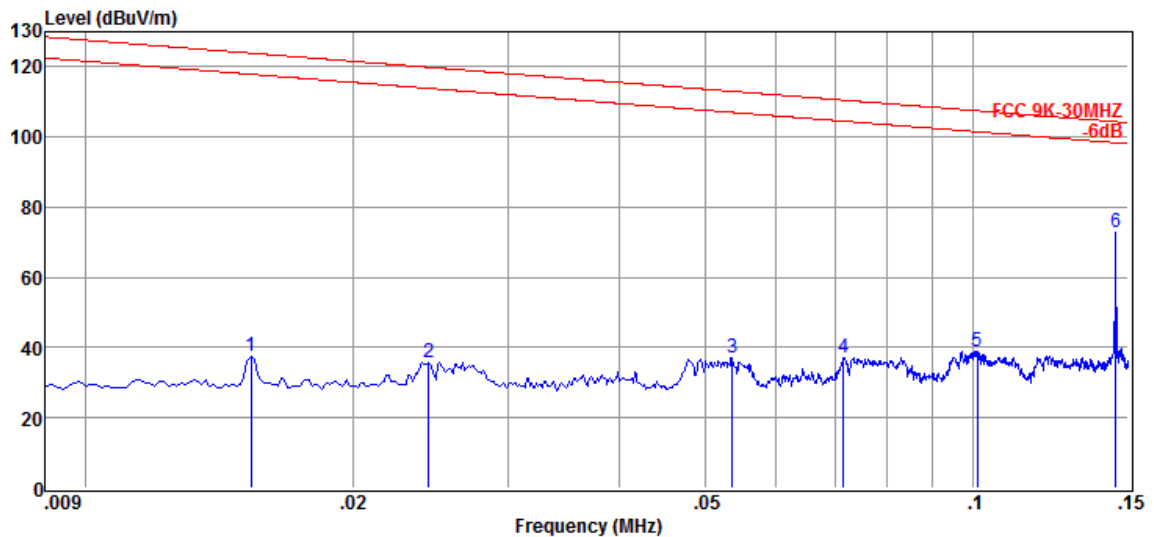
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : Qi2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 2



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	17.71	19.70	0.03	37.44	123.89	86.45	Peak	COAXIAL
2	0.02437	15.99	19.80	0.03	35.82	119.87	84.05	Peak	COAXIAL
3	0.05356	17.35	19.80	0.03	37.18	113.03	75.85	Peak	COAXIAL
4	0.07160	17.36	19.80	0.03	37.19	110.51	73.32	Peak	COAXIAL
5	0.10136	19.11	19.90	0.03	39.04	107.49	68.45	Peak	COAXIAL
6	0.14506	52.98	20.00	0.03	73.01	104.37	31.36	Peak	COAXIAL

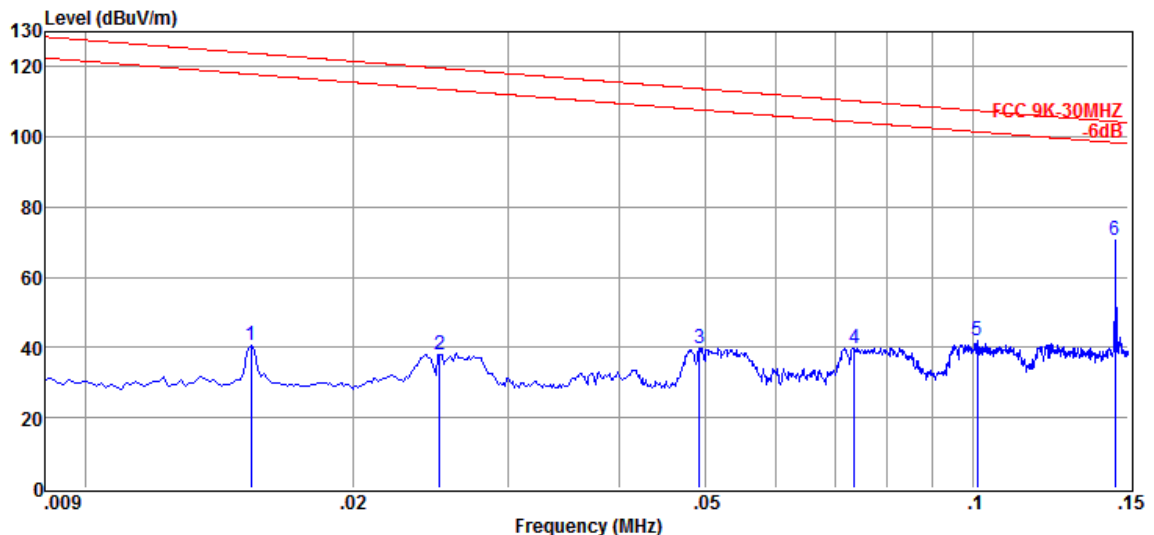
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 1



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	20.90	19.70	0.03	40.63	123.89	83.26	Peak	COPLANAR
2	0.02507	18.36	19.80	0.03	38.19	119.62	81.43	Peak	COPLANAR
3	0.04919	20.05	19.80	0.03	39.88	113.77	73.89	Peak	COPLANAR
4	0.07358	20.04	19.80	0.03	39.87	110.27	70.40	Peak	COPLANAR
5	0.10136	21.85	19.90	0.03	41.78	107.49	65.71	Peak	COPLANAR
6	0.14492	50.51	20.00	0.03	70.54	104.38	33.84	Peak	COPLANAR

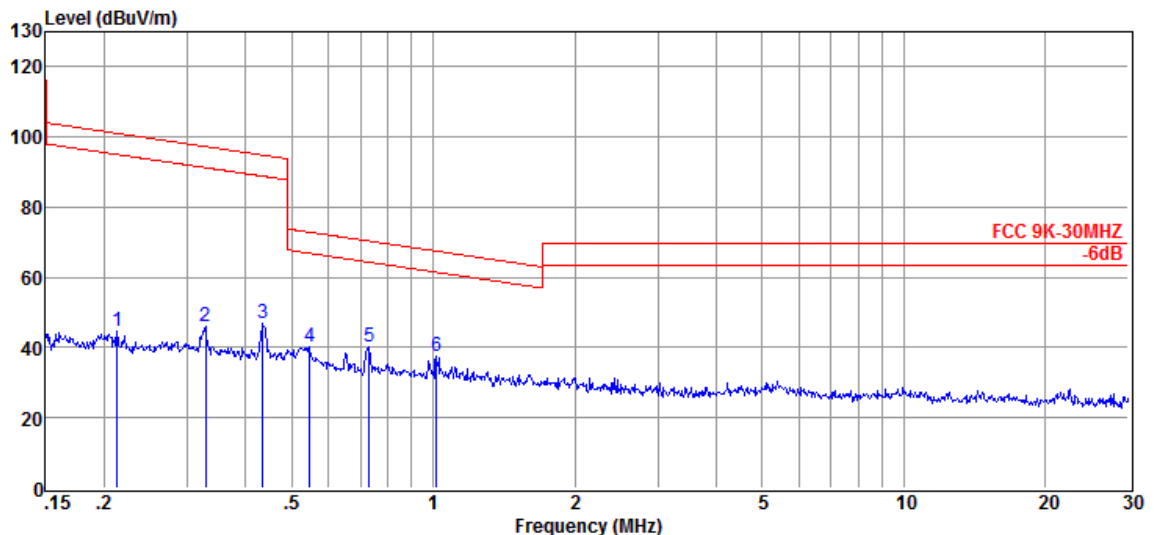
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 3



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.21279	24.73	19.98	0.03	44.74	101.04	56.30	Peak	COAXIAL
2	0.32858	26.11	19.95	0.03	46.09	97.27	51.18	Peak	COAXIAL
3	0.43511	26.84	19.92	0.03	46.79	94.83	48.04	Peak	COAXIAL
4	0.54644	20.34	19.89	0.07	40.30	72.85	32.55	Peak	COAXIAL
5	0.73131	20.42	19.85	0.07	40.34	70.32	29.98	Peak	COAXIAL
6	1.01600	17.45	19.80	0.07	37.32	67.47	30.15	Peak	COAXIAL

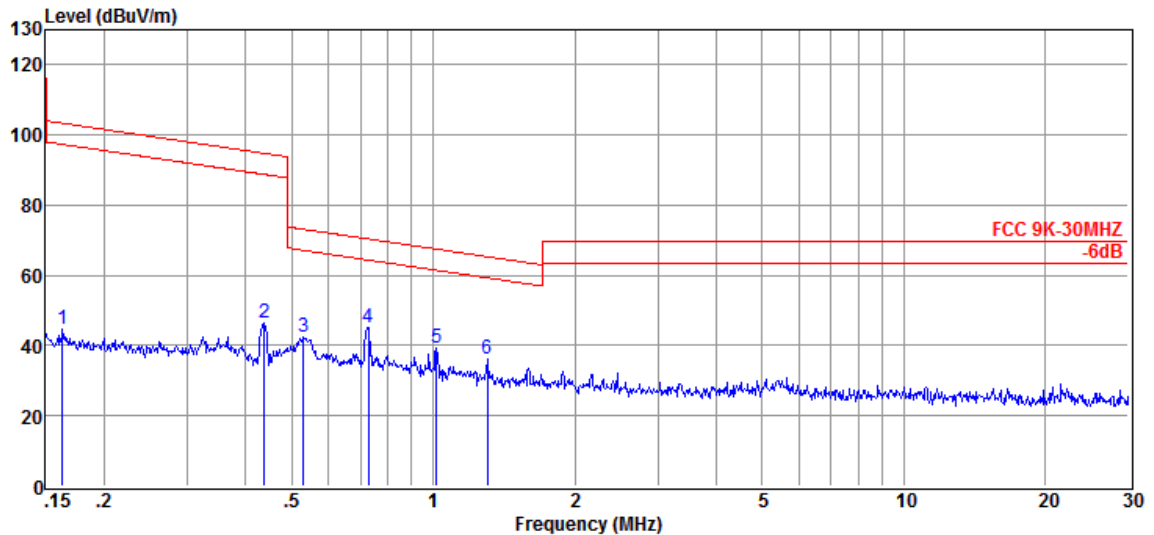
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 4



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.16327	24.44	20.00	0.03	44.47	103.35	58.88	Peak	COPLANAR
2	0.43742	26.57	19.92	0.03	46.52	94.79	48.27	Peak	COPLANAR
3	0.52934	22.53	19.89	0.07	42.49	73.13	30.64	Peak	COPLANAR
4	0.72744	25.38	19.85	0.07	45.30	70.37	25.07	Peak	COPLANAR
5	1.01600	19.35	19.80	0.07	39.22	67.47	28.25	Peak	COPLANAR
6	1.30300	16.11	19.83	0.07	36.01	65.31	29.30	Peak	COPLANAR

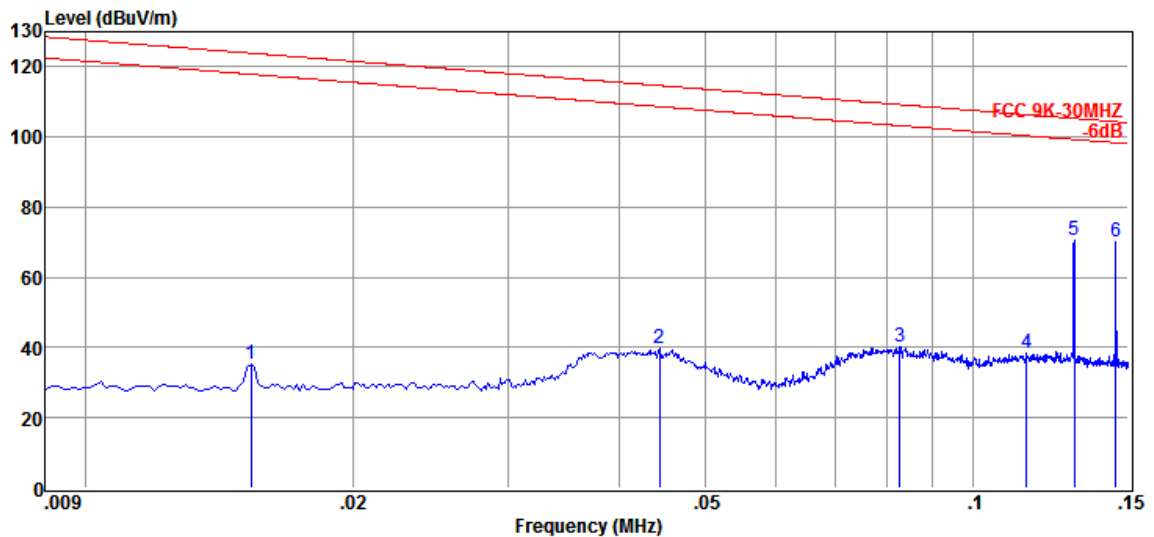
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 21



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	15.63	19.70	0.03	35.36	123.89	88.53	Peak	COAXIAL
2	0.04439	19.71	19.80	0.03	39.54	114.66	75.12	Peak	COAXIAL
3	0.08288	20.52	19.80	0.03	40.35	109.23	68.88	Peak	COAXIAL
4	0.11517	18.15	20.10	0.03	38.28	106.38	68.10	Peak	COAXIAL
5	0.13026	50.49	20.10	0.03	70.62	105.31	34.69	Peak	COAXIAL
6	0.14506	50.11	20.00	0.03	70.14	104.37	34.23	Peak	COAXIAL

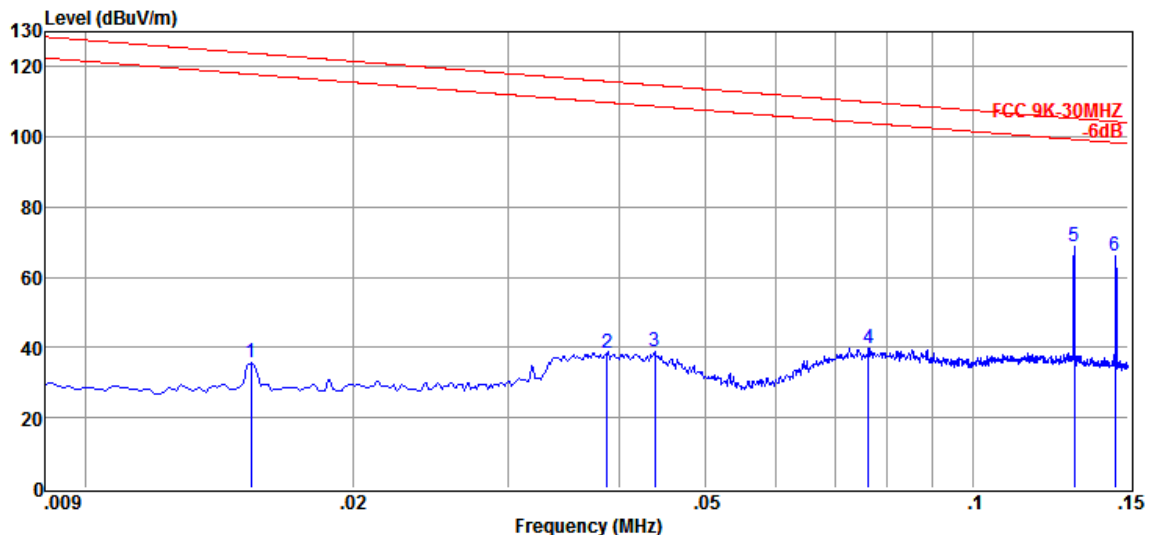
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 24



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	15.80	19.70	0.03	35.53	123.89	88.36	Peak	COPLANAR
2	0.03875	18.79	19.80	0.03	38.62	115.84	77.22	Peak	COPLANAR
3	0.04383	19.10	19.80	0.03	38.93	114.77	75.84	Peak	COPLANAR
4	0.07640	20.07	19.80	0.03	39.90	109.94	70.04	Peak	COPLANAR
5	0.13026	48.59	20.10	0.03	68.72	105.31	36.59	Peak	COPLANAR
6	0.14492	45.91	20.00	0.03	65.94	104.38	38.44	Peak	COPLANAR

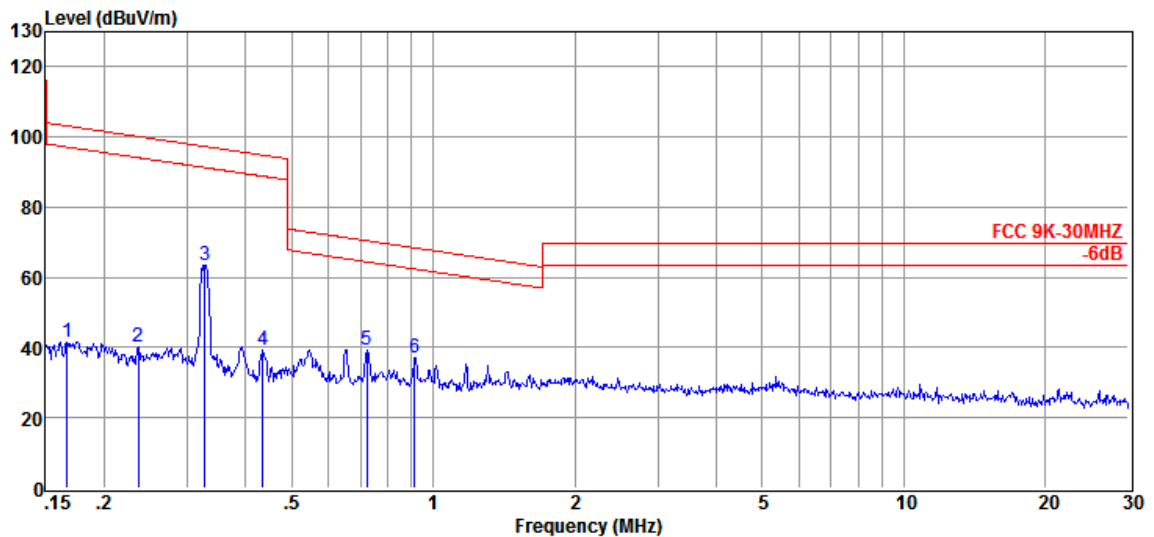
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4°C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 22



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.16677	21.57	20.00	0.03	41.60	103.16	61.56	Peak	COAXIAL
2	0.23658	20.05	19.97	0.03	40.05	100.12	60.07	Peak	COAXIAL
3	0.32685	43.52	19.95	0.03	63.50	97.32	33.82	Peak	COAXIAL
4	0.43511	19.36	19.92	0.03	39.31	94.83	55.52	Peak	COAXIAL
5	0.72360	19.57	19.85	0.07	39.49	70.41	30.92	Peak	COAXIAL
6	0.91357	17.24	19.82	0.07	37.13	68.39	31.26	Peak	COAXIAL

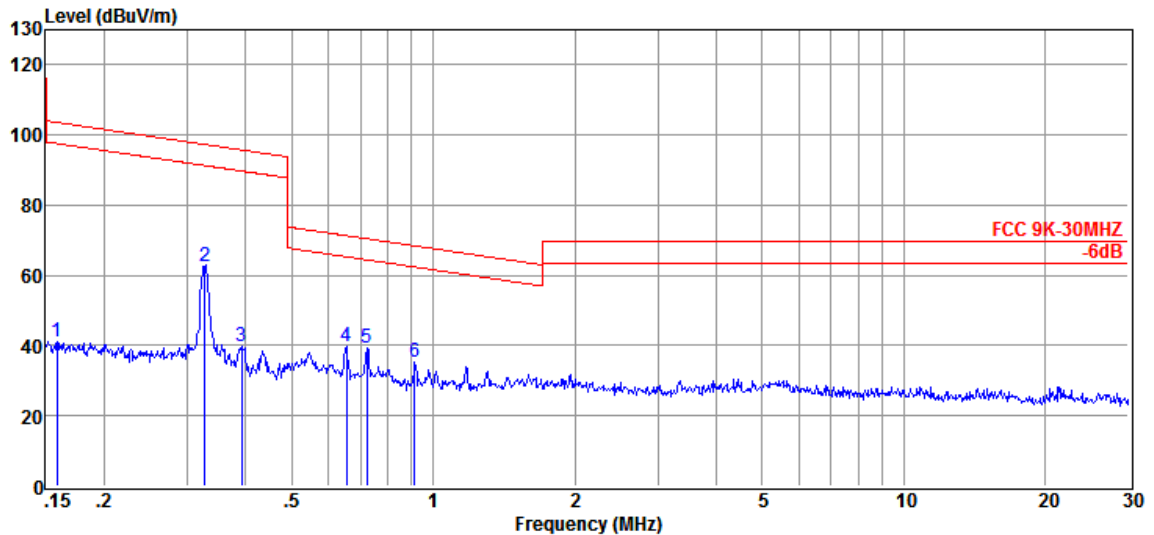
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 23



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15900	21.27	20.00	0.03	41.30	103.58	62.28	Peak	COPLANAR
2	0.32685	42.70	19.95	0.03	62.68	97.32	34.64	Peak	COPLANAR
3	0.39136	19.67	19.93	0.03	39.63	95.75	56.12	Peak	COPLANAR
4	0.65430	19.90	19.86	0.07	39.83	71.29	31.46	Peak	COPLANAR
5	0.72360	19.47	19.85	0.07	39.39	70.41	31.02	Peak	COPLANAR
6	0.91357	15.34	19.82	0.07	35.23	68.39	33.16	Peak	COPLANAR

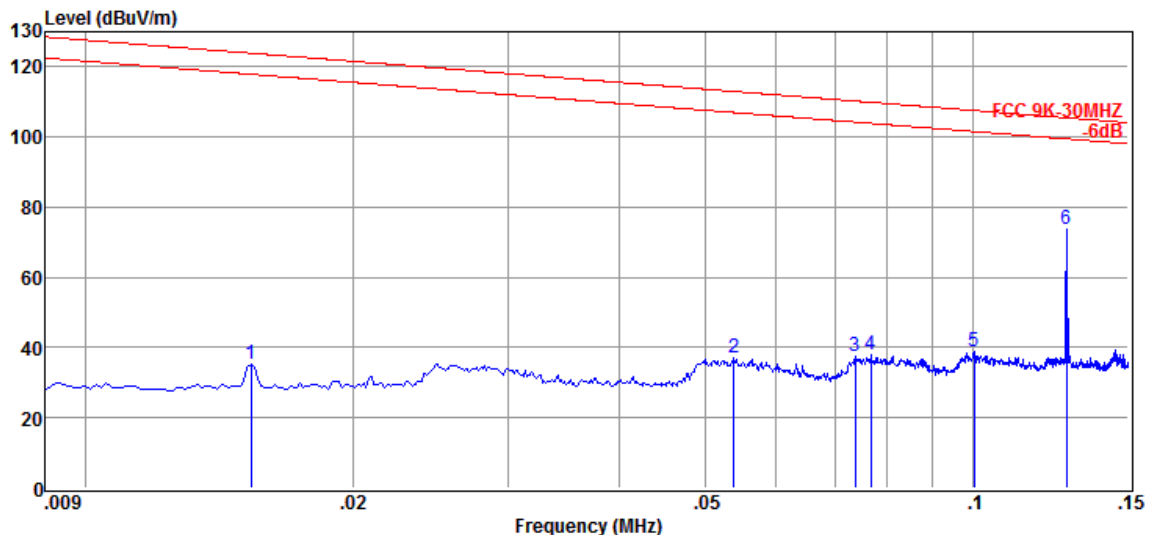
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 8



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	15.68	19.70	0.03	35.41	123.89	88.48	Peak	COAXIAL
2	0.05384	17.46	19.80	0.03	37.29	112.98	75.69	Peak	COAXIAL
3	0.07372	17.54	19.80	0.03	37.37	110.25	72.88	Peak	COAXIAL
4	0.07682	18.18	19.80	0.03	38.01	109.89	71.88	Peak	COAXIAL
5	0.10051	19.14	19.90	0.03	39.07	107.56	68.49	Peak	COAXIAL
6	0.12772	53.66	20.10	0.03	73.79	105.48	31.69	Peak	COAXIAL

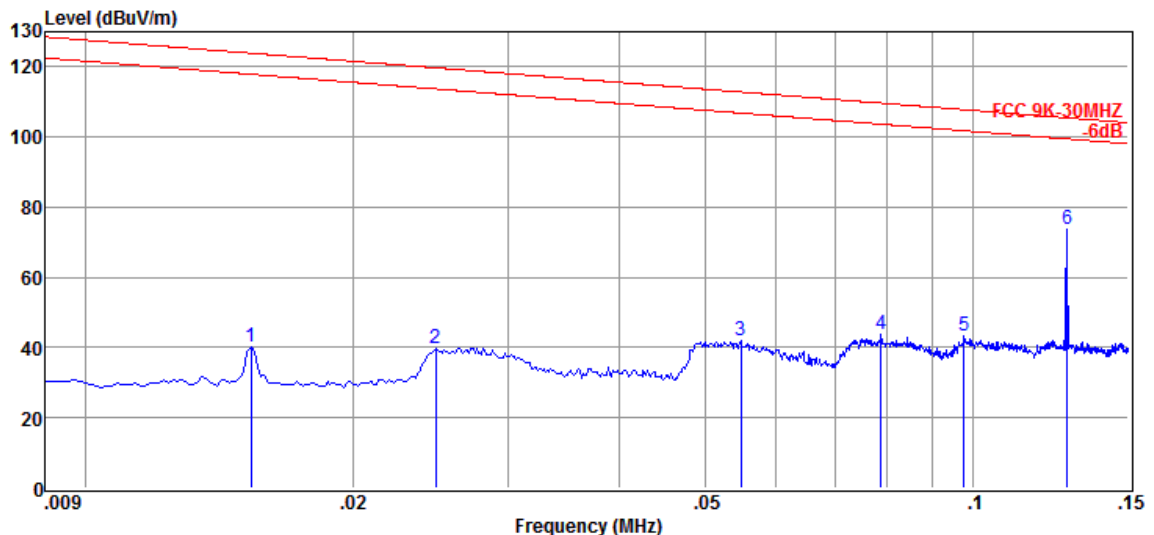
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 5



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	20.39	19.70	0.03	40.12	123.89	83.77	Peak	COPLANAR
2	0.02479	20.08	19.80	0.03	39.91	119.72	79.81	Peak	COPLANAR
3	0.05482	21.94	19.80	0.03	41.77	112.82	71.05	Peak	COPLANAR
4	0.07894	24.05	19.80	0.03	43.88	109.66	65.78	Peak	COPLANAR
5	0.09783	23.55	19.90	0.03	43.48	107.79	64.31	Peak	COPLANAR
6	0.12786	53.44	20.10	0.03	73.57	105.47	31.90	Peak	COPLANAR

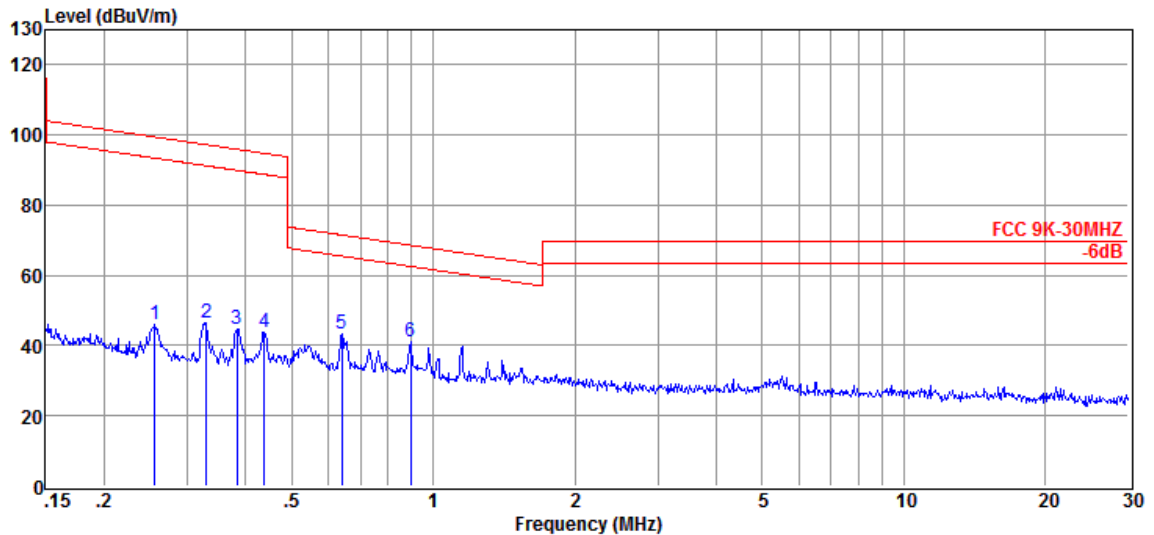
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 7



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.25615	25.91	19.97	0.03	45.91	99.43	53.52	Peak	COAXIAL
2	0.33033	26.43	19.95	0.03	46.41	97.23	50.82	Peak	COAXIAL
3	0.38315	24.77	19.94	0.03	44.74	95.94	51.20	Peak	COAXIAL
4	0.43742	24.03	19.92	0.03	43.98	94.79	50.81	Peak	COAXIAL
5	0.64058	23.33	19.87	0.07	43.27	71.47	28.20	Peak	COAXIAL
6	0.89441	21.43	19.82	0.07	41.32	68.57	27.25	Peak	COAXIAL

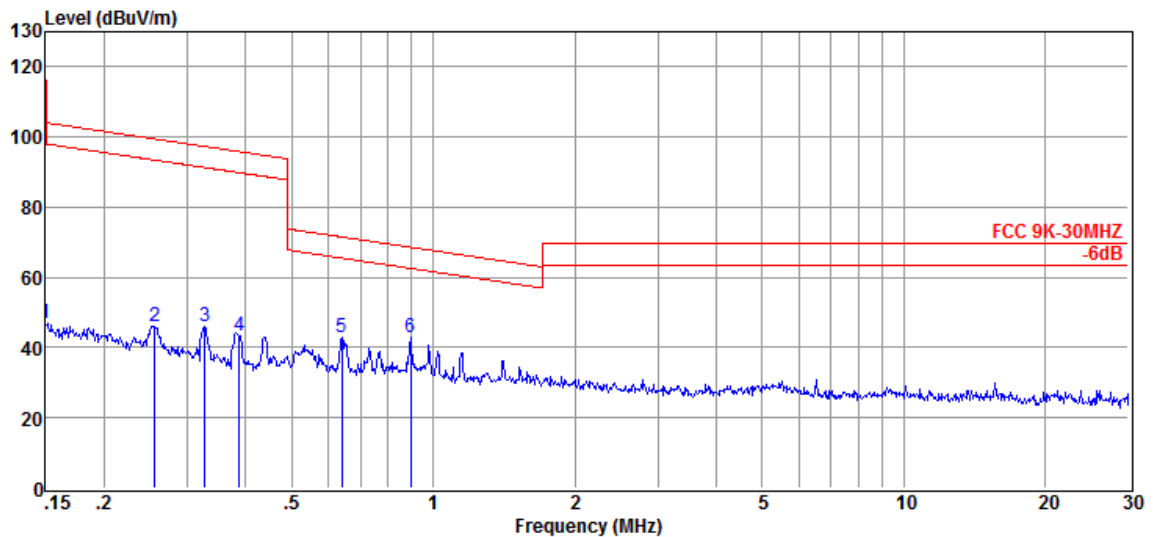
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 6



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15000	26.88	20.00	0.03	46.91	104.08	57.17	Peak	COPLANAR
2	0.25615	26.05	19.97	0.03	46.05	99.43	53.38	Peak	COPLANAR
3	0.32685	25.88	19.95	0.03	45.86	97.32	51.46	Peak	COPLANAR
4	0.38724	23.39	19.93	0.03	43.35	95.84	52.49	Peak	COPLANAR
5	0.64058	22.88	19.87	0.07	42.82	71.47	28.65	Peak	COPLANAR
6	0.89441	22.82	19.82	0.07	42.71	68.57	25.86	Peak	COPLANAR

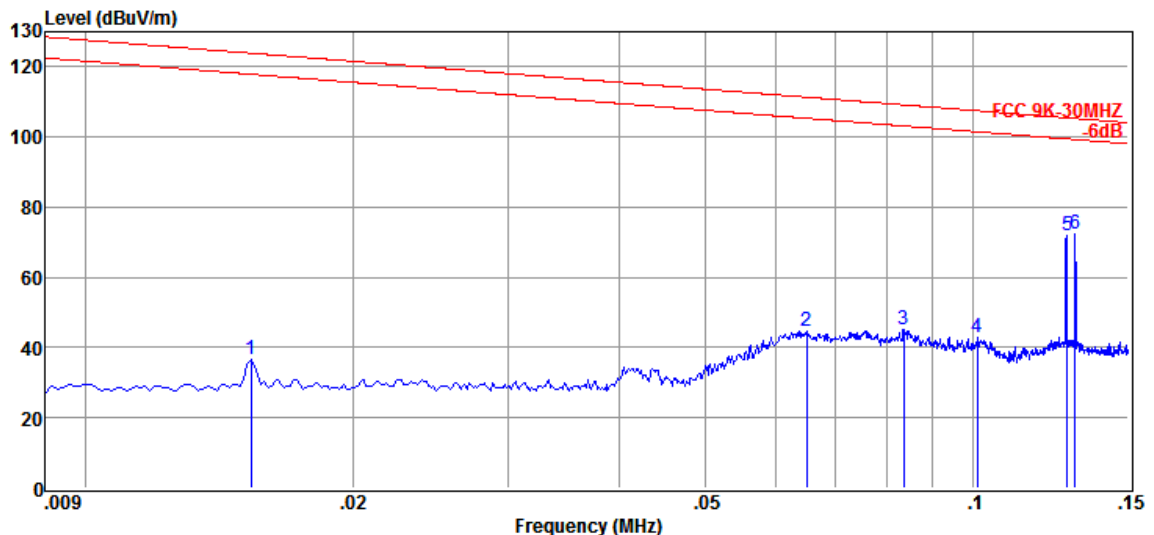
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 28



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	16.99	19.70	0.03	36.72	123.89	87.17	Peak	COAXIAL
2	0.06498	24.81	19.80	0.03	44.64	111.35	66.71	Peak	COAXIAL
3	0.08373	25.26	19.80	0.03	45.09	109.15	64.06	Peak	COAXIAL
4	0.10136	23.02	19.90	0.03	42.95	107.49	64.54	Peak	COAXIAL
5	0.12786	51.76	20.10	0.03	71.89	105.47	33.58	Peak	COAXIAL
6	0.13054	52.12	20.10	0.03	72.25	105.29	33.04	Peak	COAXIAL

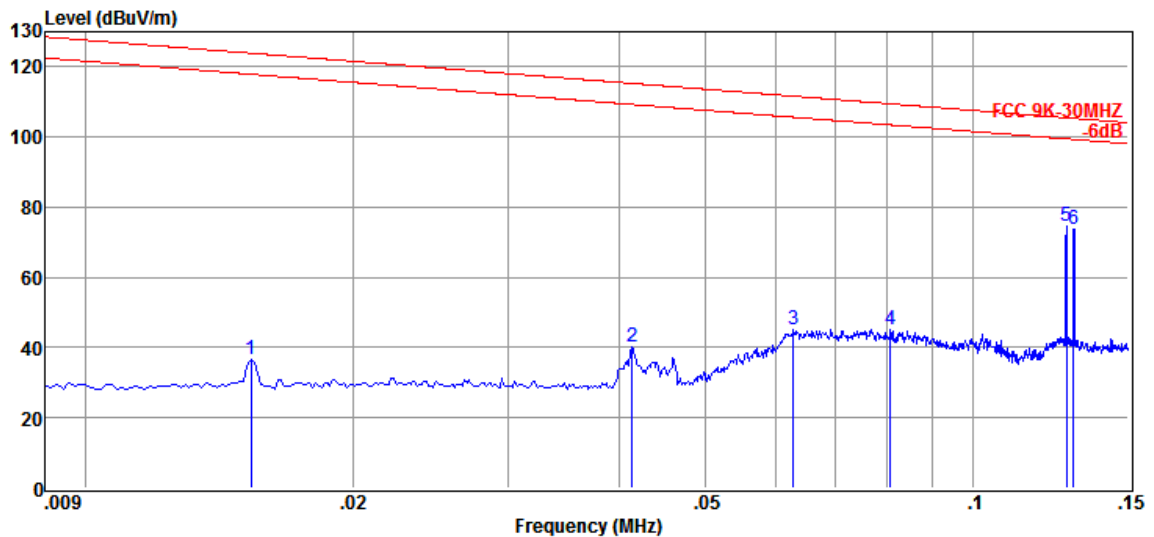
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 25



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	17.05	19.70	0.03	36.78	123.89	87.11	Peak	COPLANAR
2	0.04129	20.51	19.80	0.03	40.34	115.29	74.95	Peak	COPLANAR
3	0.06286	25.13	19.80	0.03	44.96	111.64	66.68	Peak	COPLANAR
4	0.08091	25.36	19.80	0.03	45.19	109.44	64.25	Peak	COPLANAR
5	0.12772	54.52	20.10	0.03	74.65	105.48	30.83	Peak	COPLANAR
6	0.13012	53.55	20.10	0.03	73.68	105.32	31.64	Peak	COPLANAR

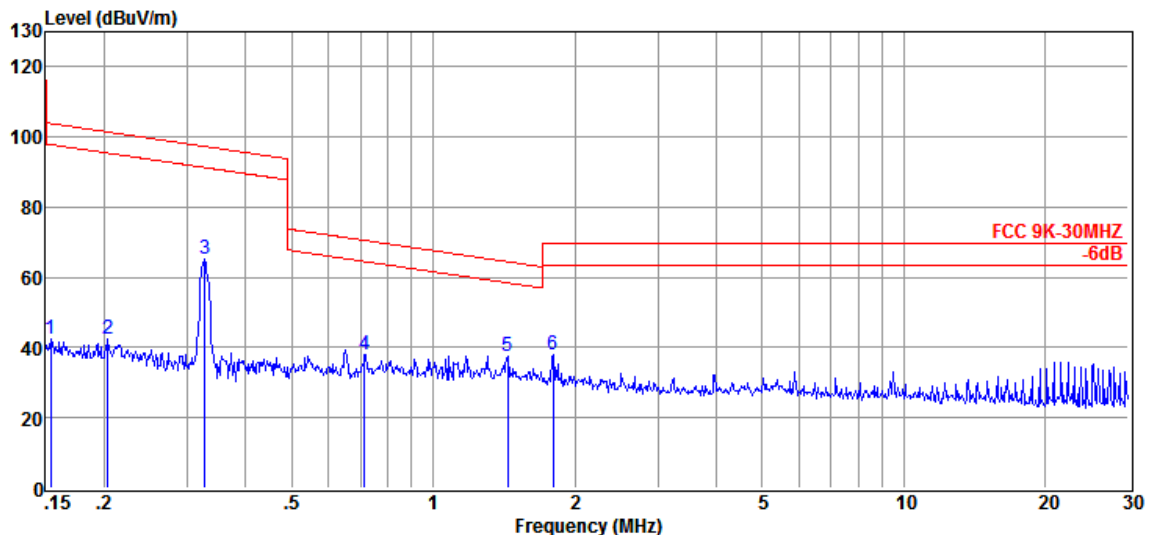
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 27



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15403	22.26	20.00	0.03	42.29	103.85	61.56	Peak	COAXIAL
2	0.20396	22.38	19.98	0.03	42.39	101.41	59.02	Peak	COAXIAL
3	0.32685	45.14	19.95	0.03	65.12	97.32	32.20	Peak	COAXIAL
4	0.71597	18.07	19.85	0.07	37.99	70.51	32.52	Peak	COAXIAL
5	1.44100	17.73	19.84	0.07	37.64	64.43	26.79	Peak	COAXIAL
6	1.80000	18.22	19.88	0.10	38.20	69.54	31.34	Peak	COAXIAL

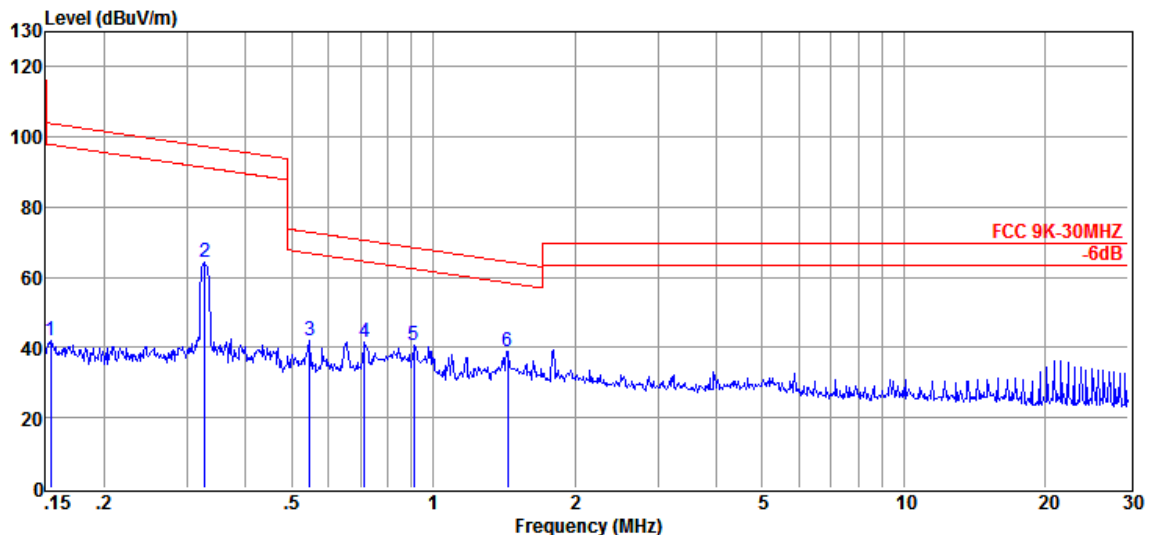
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 7.5W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 26



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.15403	21.83	20.00	0.03	41.86	103.85	61.99	Peak	COPLANAR
2	0.32685	44.29	19.95	0.03	64.27	97.32	33.05	Peak	COPLANAR
3	0.54644	22.23	19.89	0.07	42.19	72.85	30.66	Peak	COPLANAR
4	0.71597	21.85	19.85	0.07	41.77	70.51	28.74	Peak	COPLANAR
5	0.90874	20.56	19.82	0.07	40.45	68.44	27.99	Peak	COPLANAR
6	1.44100	19.10	19.84	0.07	39.01	64.43	25.42	Peak	COPLANAR

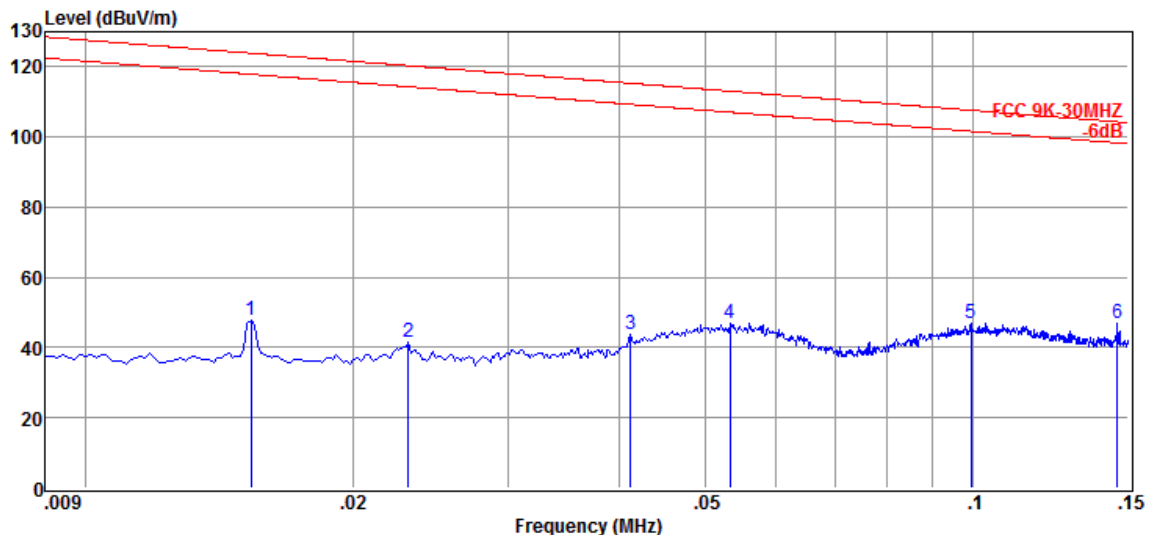
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 12



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	28.24	19.70	0.03	47.97	123.89	75.92	Peak	COAXIAL
2	0.02310	21.64	19.70	0.03	41.37	120.33	78.96	Peak	COAXIAL
3	0.04115	24.10	19.80	0.03	43.93	115.32	71.39	Peak	COAXIAL
4	0.05327	27.14	19.80	0.03	46.97	113.07	66.10	Peak	COAXIAL
5	0.09966	26.79	19.90	0.03	46.72	107.63	60.91	Peak	COAXIAL
6	0.14563	26.72	20.00	0.03	46.75	104.34	57.59	Peak	COAXIAL

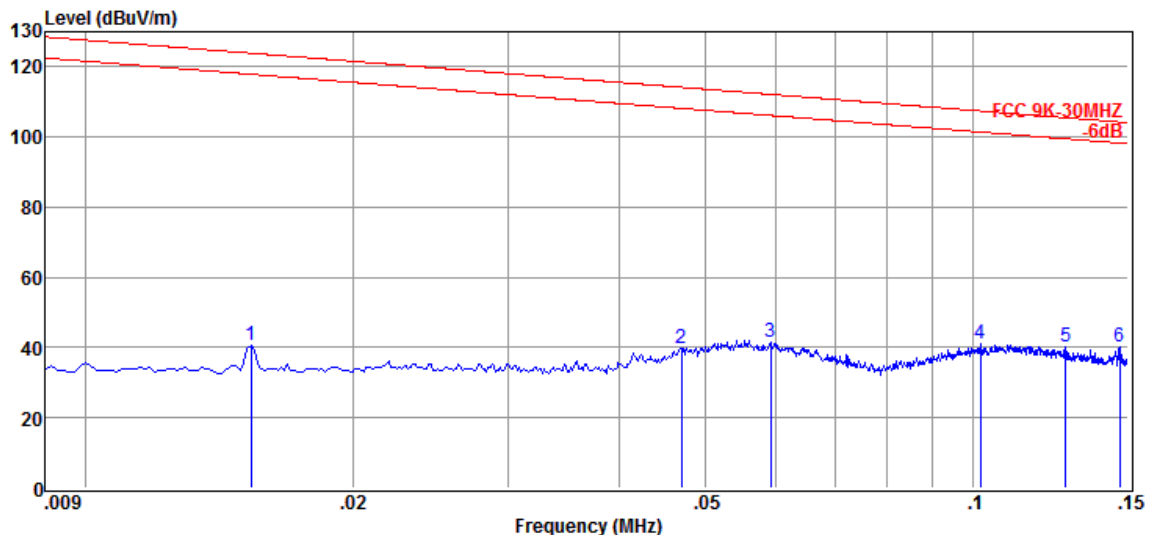
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4°C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 9



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	21.02	19.70	0.03	40.75	123.89	83.14	Peak	COPLANAR
2	0.04693	20.15	19.80	0.03	39.98	114.18	74.20	Peak	COPLANAR
3	0.05920	21.58	19.80	0.03	41.41	112.16	70.75	Peak	COPLANAR
4	0.10206	21.17	19.90	0.03	41.10	107.43	66.33	Peak	COPLANAR
5	0.12758	19.97	20.10	0.03	40.10	105.49	65.39	Peak	COPLANAR
6	0.14676	20.26	20.00	0.03	40.29	104.27	63.98	Peak	COPLANAR

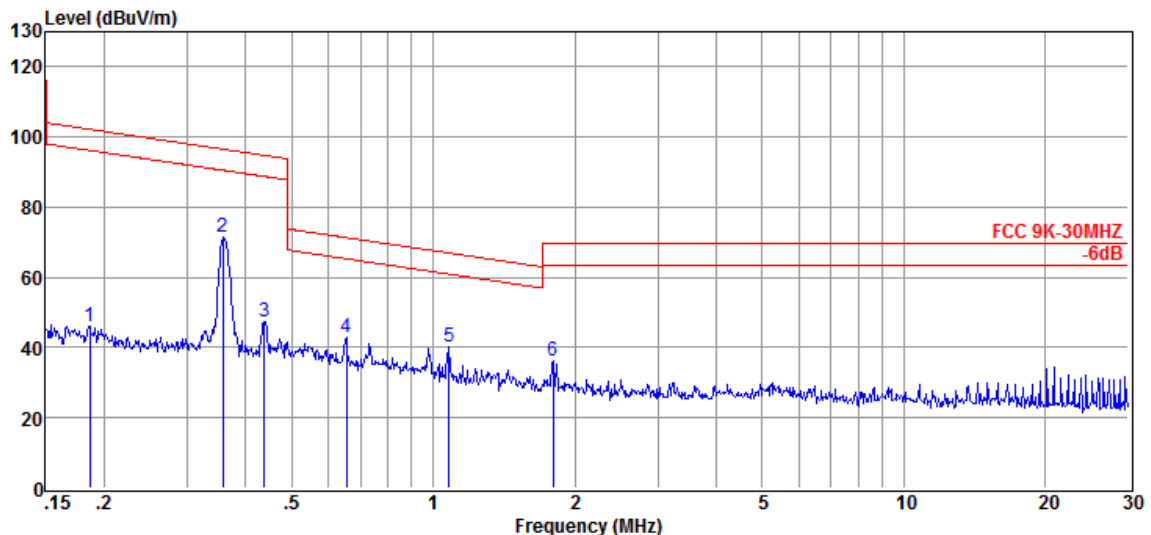
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 11



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.18639	26.03	19.99	0.03	46.05	102.20	56.15	Peak	COAXIAL
2	0.35765	51.29	19.94	0.03	71.26	96.53	25.27	Peak	COAXIAL
3	0.43742	27.59	19.92	0.03	47.54	94.79	47.25	Peak	COAXIAL
4	0.65430	22.87	19.86	0.07	42.80	71.29	28.49	Peak	COAXIAL
5	1.08200	20.49	19.81	0.07	40.37	66.92	26.55	Peak	COAXIAL
6	1.80000	16.32	19.88	0.10	36.30	69.54	33.24	Peak	COAXIAL

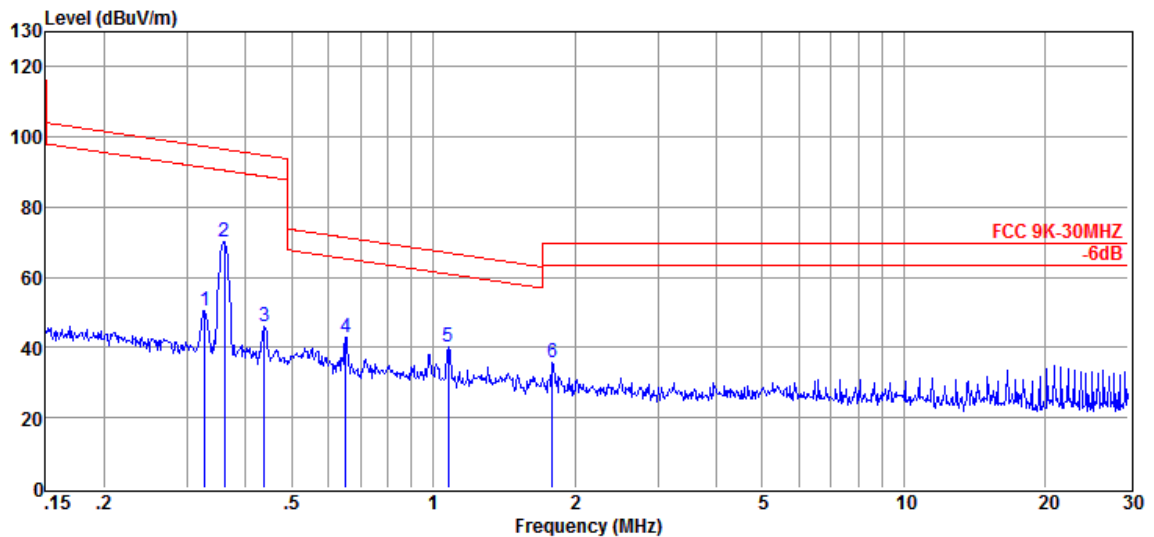
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 10



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.32685	30.47	19.95	0.03	50.45	97.32	46.87	Peak	COPLANAR
2	0.35955	50.05	19.94	0.03	70.02	96.49	26.47	Peak	COPLANAR
3	0.43742	26.06	19.92	0.03	46.01	94.79	48.78	Peak	COPLANAR
4	0.65084	22.93	19.87	0.07	42.87	71.33	28.46	Peak	COPLANAR
5	1.07700	20.24	19.81	0.07	40.12	66.96	26.84	Peak	COPLANAR
6	1.79000	15.65	19.88	0.10	35.63	69.54	33.91	Peak	COPLANAR

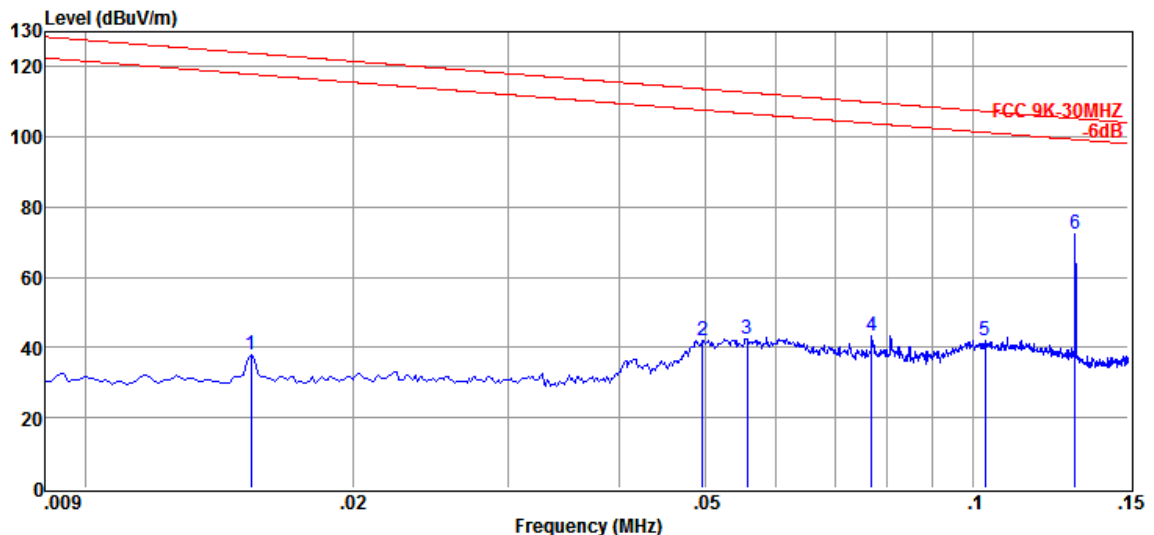
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 29



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	18.31	19.70	0.03	38.04	123.89	85.85	Peak	COAXIAL
2	0.04961	22.25	19.80	0.03	42.08	113.69	71.61	Peak	COAXIAL
3	0.05567	22.59	19.80	0.03	42.42	112.69	70.27	Peak	COAXIAL
4	0.07696	23.55	19.80	0.03	43.38	109.88	66.50	Peak	COAXIAL
5	0.10333	22.03	19.90	0.03	41.96	107.32	65.36	Peak	COAXIAL
6	0.13054	52.03	20.10	0.03	72.16	105.29	33.13	Peak	COAXIAL

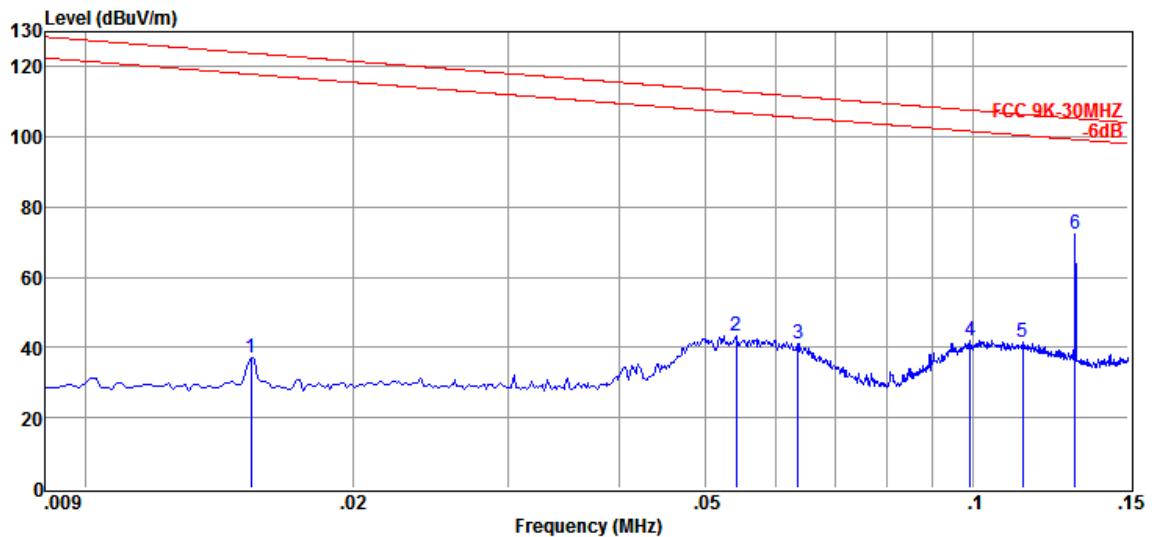
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4°C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 32



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.01534	17.29	19.70	0.03	37.02	123.89	86.87	Peak	COPLANAR
2	0.05412	23.67	19.80	0.03	43.50	112.94	69.44	Peak	COPLANAR
3	0.06357	21.33	19.80	0.03	41.16	111.54	70.38	Peak	COPLANAR
4	0.09952	22.26	19.90	0.03	42.19	107.65	65.46	Peak	COPLANAR
5	0.11404	21.41	20.10	0.03	41.54	106.46	64.92	Peak	COPLANAR
6	0.13054	52.03	20.10	0.03	72.16	105.29	33.13	Peak	COPLANAR

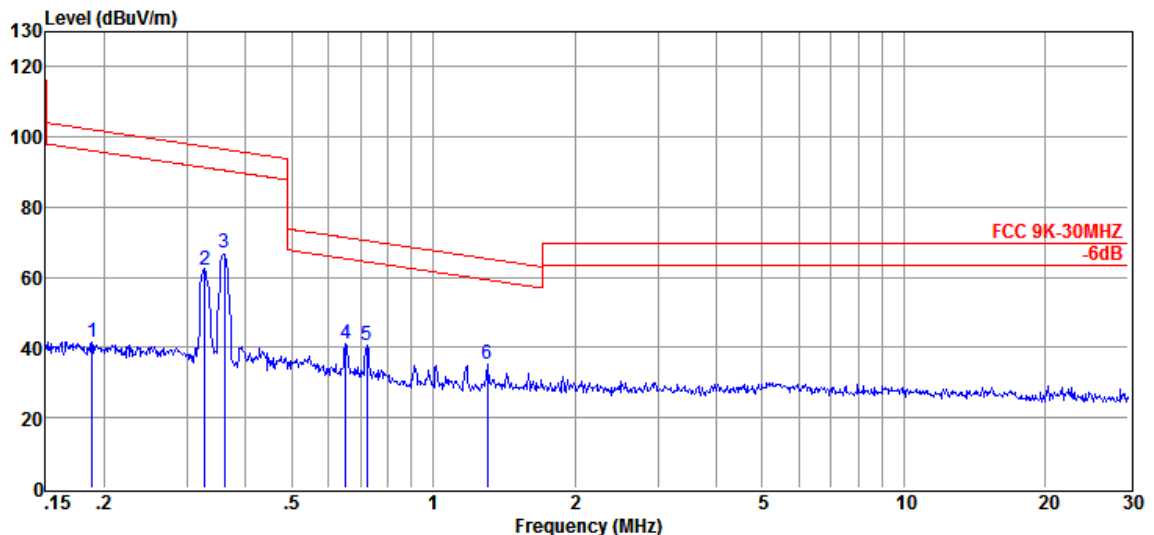
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COAXIAL

Data : 30



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.18838	21.61	19.99	0.03	41.63	102.10	60.47	Peak	COAXIAL
2	0.32685	42.33	19.95	0.03	62.31	97.32	35.01	Peak	COAXIAL
3	0.35955	46.84	19.94	0.03	66.81	96.49	29.68	Peak	COAXIAL
4	0.65084	21.25	19.87	0.07	41.19	71.33	30.14	Peak	COAXIAL
5	0.72360	20.90	19.85	0.07	40.82	70.41	29.59	Peak	COAXIAL
6	1.30300	15.33	19.83	0.07	35.23	65.31	30.08	Peak	COAXIAL

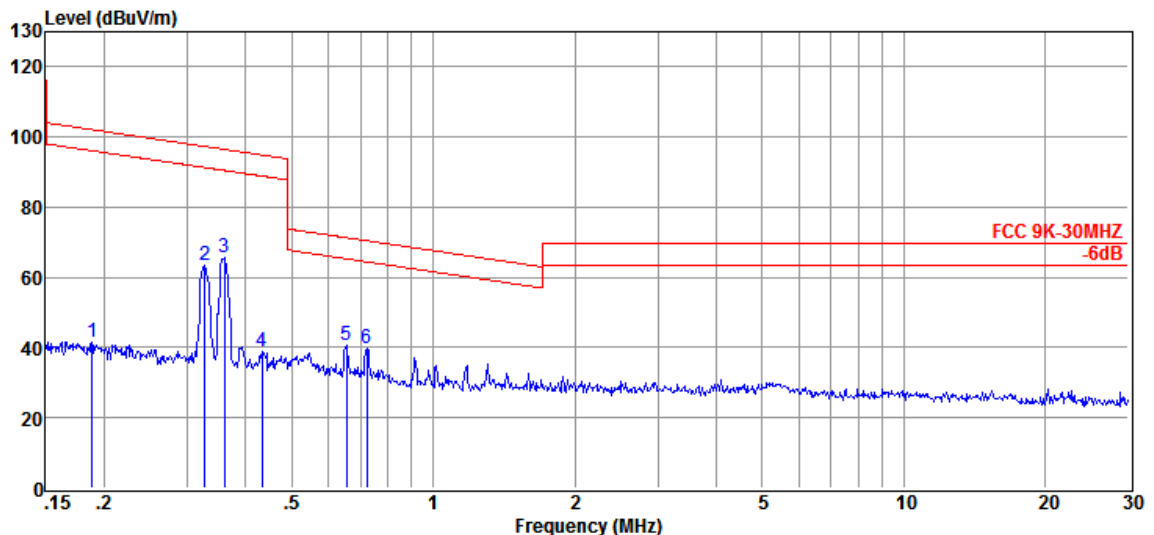
Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 2# 966 chamber
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:22.4'C;Humi:61.5%;Press:101.33kPa
Memo : iPhone 15W+Apple Watch 3W+AirPods 5W

Tested By : Eric
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : COPLANAR

Data : 31



Item	Freq	Reading	Antenna Factor	Cable Loss	Emission Level	Limit Line	Margin	Detector	Polarization
(Mark)	(MHz)	(dBuV)	(dB/m)	dB	(dBuV/m)	(dBuV/m)	(dB)		
1	0.18838	21.61	19.99	0.03	41.63	102.10	60.47	Peak	COPLANAR
2	0.32685	43.45	19.95	0.03	63.43	97.32	33.89	Peak	COPLANAR
3	0.35955	45.82	19.94	0.03	65.79	96.49	30.70	Peak	COPLANAR
4	0.43281	19.03	19.92	0.03	38.98	94.88	55.90	Peak	COPLANAR
5	0.65430	20.56	19.86	0.07	40.49	71.29	30.80	Peak	COPLANAR
6	0.72360	19.90	19.85	0.07	39.82	70.41	30.59	Peak	COPLANAR

Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

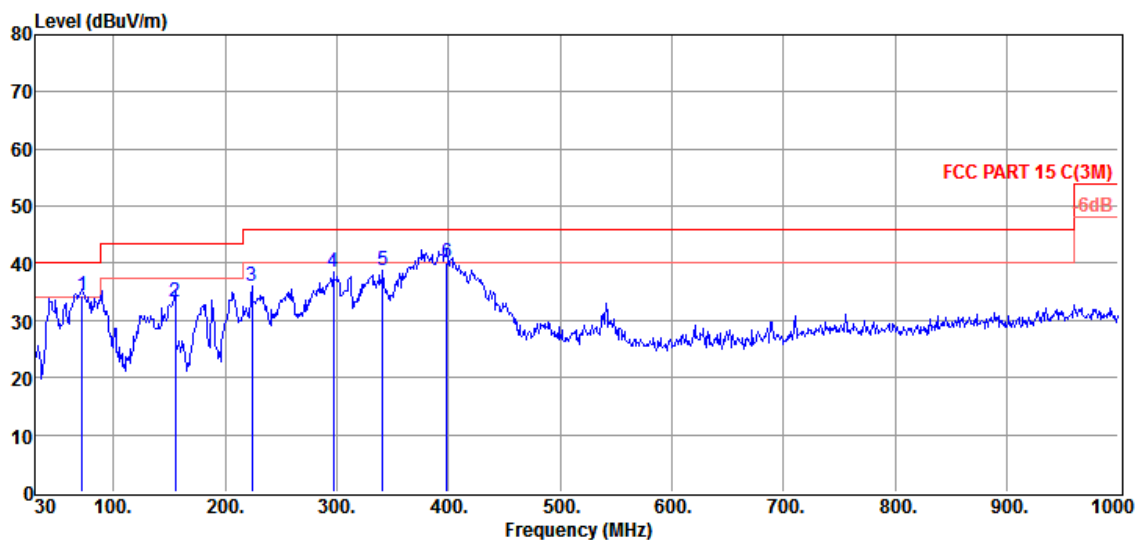
30MHz - 1000MHz

Radiated Emission Test Result

Test Site : 5# 966 Chamber
Test Date : 2024-11-01
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:23°C;Humi:54%;;Press:101.1kPa
Memo : iPhone 15W+Apple Watch 3W+AirPods 5W

Tested By : Aikun
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : HORIZONTAL

Data : 2



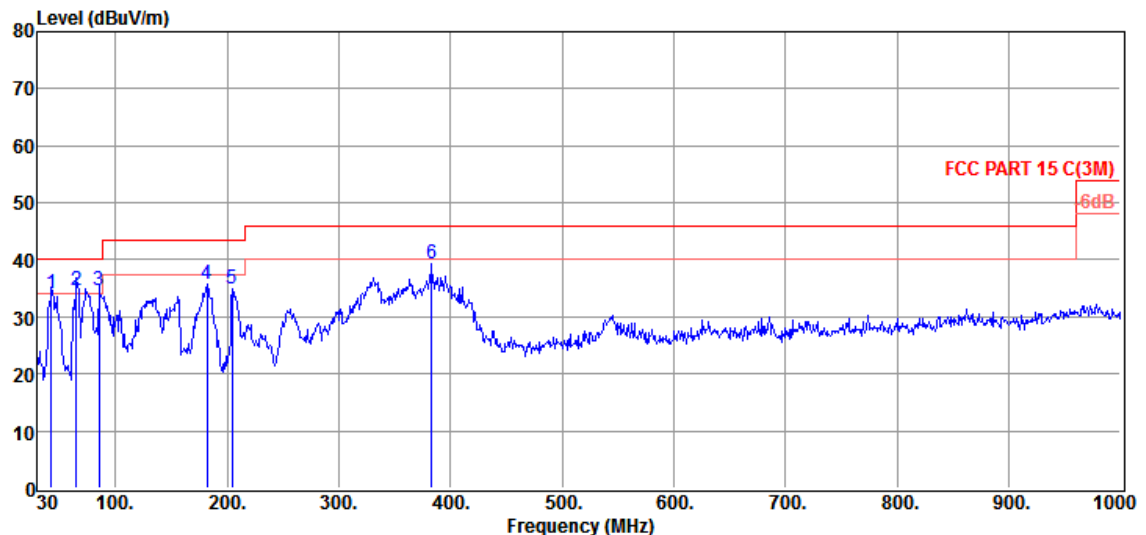
Item (Mark)	Freq (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Detector	Polarization
1	71.710	27.08	6.20	1.18	34.46	40.00	5.54	QP	HORIZONTAL
2	155.130	20.49	10.90	1.87	33.26	43.50	10.24	QP	HORIZONTAL
3	224.000	23.54	9.80	2.59	35.93	46.00	10.07	QP	HORIZONTAL
4	296.750	22.15	13.36	3.01	38.52	46.00	7.48	QP	HORIZONTAL
5	341.370	21.41	14.20	3.23	38.84	46.00	7.16	QP	HORIZONTAL
6	398.600	20.77	15.94	3.52	40.23	46.00	5.77	QP	HORIZONTAL

Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Test Result

Test Site : 5# 966 Chamber
Test Date : 2024-11-08
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC
Condition : Temp:23°C;Humi:54%;;Press:101.1kPa
Memo : iPhone 15W+Apple Watch 3W+AirPods 5W
Tested By : Aikun
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
Polarization : VERTICAL

Data : 1



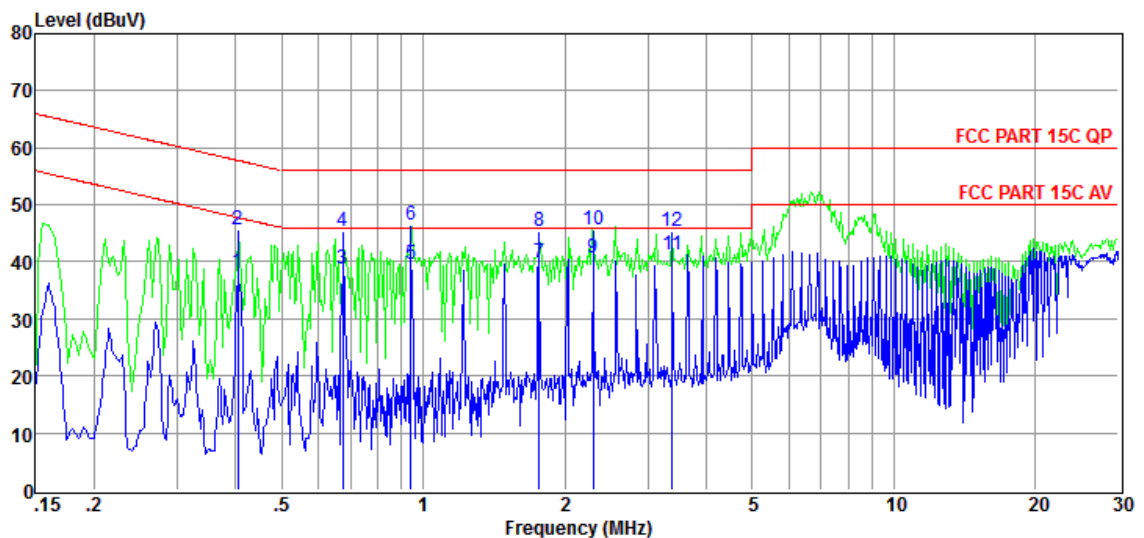
Item (Mark)	Freq (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Detector	Polarization
1	42.610	20.79	12.20	1.09	34.08	40.00	5.92	QP	VERTICAL
2	64.920	27.38	6.20	1.18	34.76	40.00	5.24	QP	VERTICAL
3	85.290	25.54	8.00	1.18	34.72	40.00	5.28	QP	VERTICAL
4	182.290	24.21	9.20	2.22	35.63	43.50	7.87	QP	VERTICAL
5	204.600	23.13	9.30	2.48	34.91	43.50	8.59	QP	VERTICAL
6	383.080	20.43	15.32	3.44	39.19	46.00	6.81	QP	VERTICAL

Remarks: 1. Emission Level = Reading+Antenna Factor + Cable Loss.
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Appendix A.2: Test Results of Conducted Emission on AC Mains

Conducted Emission Test Result

Test Site : 1#CE Shield Room
Test Date : 2024-11-02
EUT : QI2 Wireless Charger
Power Supply : DC 12V From Adapter Input AC 120V/60Hz
Condition : Temp:25.5°C;Humi:58%;Press:101 .10kPa
Memo : iPhone 15W+Apple Watch
3W+AirPods 5W
Tested By : Micheal
Model Number : MPP23-1TCNC-J
Test Mode : TX Mode
LISN : LINE



Note: 1. Result Level = Read Level + LISN Factor + Cable loss

Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector
1	0.404	18.33	10.15	9.87	38.35	47.77	-9.42	Average
2	0.404	25.59	10.15	9.87	45.61	57.77	-12.16	QP
3	0.675	18.85	10.14	9.87	38.86	46.00	-7.14	Average
4	0.675	25.47	10.14	9.87	45.48	56.00	-10.52	QP
5	0.943	19.57	10.16	9.88	39.61	46.00	-6.39	Average
6	0.943	26.50	10.16	9.88	46.54	56.00	-9.46	QP
7	1.762	19.84	10.15	9.89	39.88	46.00	-6.12	Average
8	1.762	25.43	10.15	9.89	45.47	56.00	-10.53	QP
9	2.297	20.69	10.15	9.89	40.73	46.00	-5.27	Average
10	2.297	25.61	10.15	9.89	45.65	56.00	-10.35	QP
11	3.381	21.21	10.15	9.89	41.25	46.00	-4.75	Average
12	3.381	25.27	10.15	9.89	45.31	56.00	-10.69	QP

2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

Conducted Emission Test Result

Test Site : 1#CE Shield Room

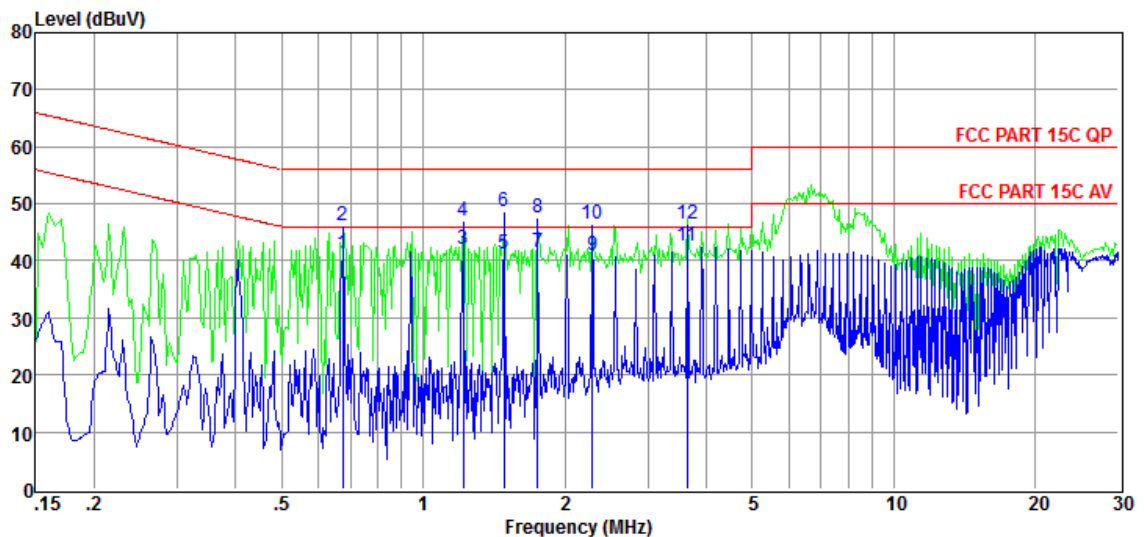
Test Date : 2024-11-02 **Tested By** : Micheal

EUT : QI2 Wireless Charger **Model Number** : MPP23-1TCNC-J

Power Supply : DC 12V From Adapter Input AC 120V/60Hz **Test Mode** : TX Mode

Condition : Temp:25.5°C;Humi:58%;Press:101 .10kPa **LISN** : NEUTRAL

Memo : iPhone 15W+Apple Watch
3W+AirPods 5W



Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector
1	0.675	21.22	10.14	9.87	41.23	46.00	-4.77	Average
2	0.675	26.27	10.14	9.87	46.28	56.00	-9.72	QP
3	1.216	21.89	10.23	9.88	42.00	46.00	-4.00	Average
4	1.216	26.82	10.23	9.88	46.93	56.00	-9.07	QP
5	1.487	21.24	10.19	9.88	41.31	46.00	-4.69	Average
6	1.487	28.54	10.19	9.88	48.61	56.00	-7.39	QP
7	1.753	21.40	10.14	9.89	41.43	46.00	-4.57	Average
8	1.753	27.45	10.14	9.89	47.48	56.00	-8.52	QP
9	2.285	21.07	10.08	9.89	41.04	46.00	-4.96	Average
10	2.285	26.54	10.08	9.89	46.51	56.00	-9.49	QP
11	3.642	22.52	10.09	9.90	42.51	46.00	-3.49	Average
12	3.642	26.56	10.09	9.90	46.55	56.00	-9.45	QP

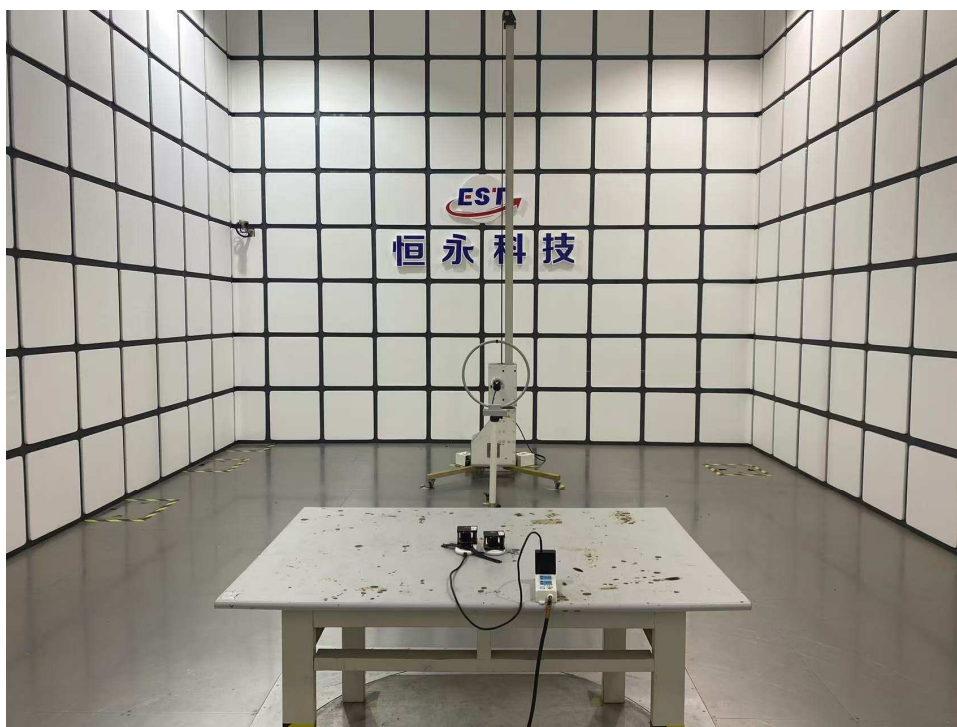
Note: 1. Result Level = Read Level + LISN Factor + Cable loss

2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

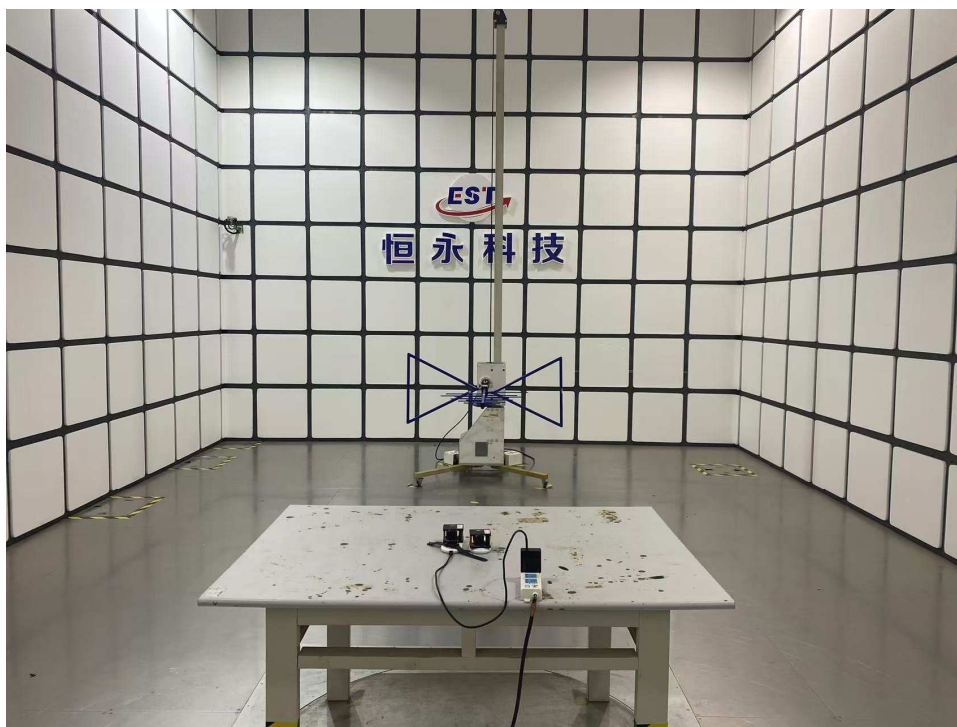
Appendix B: Photographs of the Test Set-Up

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PHOTOGRAPH 3: SET-UP PHOTO FOR CONDUCTED EMISSION ON AC MAINS	3

Photograph 1: Set-up photo for Radiated Spurious Emission, Below 30MHz



Photograph 2: Set-up photo for Radiated Spurious Emission, 30MHz - 1GHz



Photograph 3: Set-up photo for Conducted Emission on AC Mains

