



Report No.: TWN2409602E

Applicant: Cosmo Fiber Corp.

Product: 4-in-1 Wireless Charging Phone Stand

Model No.: AB0504

Trademark: N/A

Test Standards: FCC Part 15 Subpart C

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: September 18, 2024

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: +86 755 83448688
Fax: +86 755 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Cosmo Fiber Corp.
Address: 1802 Santo Domingo Ave Duarte, CA 91010

1.3 Description of EUT

Product: 4-in-1 Wireless Charging Phone Stand
Manufacturer: Cosmo Fiber Corp.
Address: 1802 Santo Domingo Ave Duarte, CA 91010
Trademark: N/A
Additional Trade Name: N/A
Model Number: AB0504
Additional Model Name: N/A
Rating: Type-C Input: DC5V/3A, DC9V/3A;
Wireless Output: 5V/1A, 9V/1.1A, 9V/1.67A;
Wireless Charger Earphone Output: 3W
Wireless Watch Output: 1.5W
USB & Type-C Output (Max): DC5V, 1A
Hardware Version: wirelesscharging-AB0504
Software Version: leader.2021.11
Serial No.: AB0504
Operation Frequency: 111.5kHz-205kHz
Test Frequency: 175kHz
Modulation Type: MSK
Antenna Designation: Inductive Loop Antenna with gain 0dBi Max for each one (Declared by the applicant)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2024-09-04 to 2024-08-27

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB

Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

The sample tested by

Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna requirements	Pass	Compliant
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Compliant
FCC Part 15, Paragraph 15.209 (a) (f)	General Requirement	Pass	Compliant
FCC Part 15, Paragraph 15.215	20dB Bandwidth Testing	Pass	Compliant

3.2 Test Standards

FCC Part 15 Subpart C , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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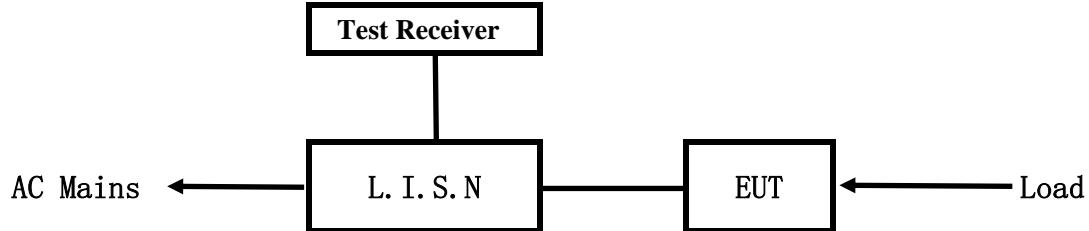
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



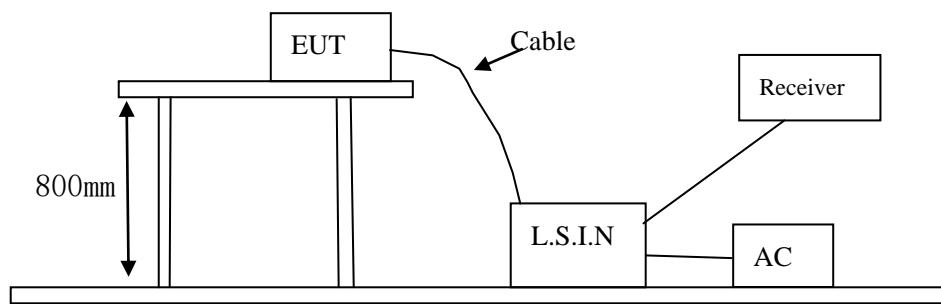
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
4-in-1 Wireless Charging Phone Stand	Cosmo Fiber Corp.	AB0504	2A4C5-AB0504

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Infinix	XC1165US	Input: 100-240V~, 50-60Hz, 1.5A; Output: DC5V/3A or DC9V, 3A or DC15V, 3A or DC20V, 3.25A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quas-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes:

1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

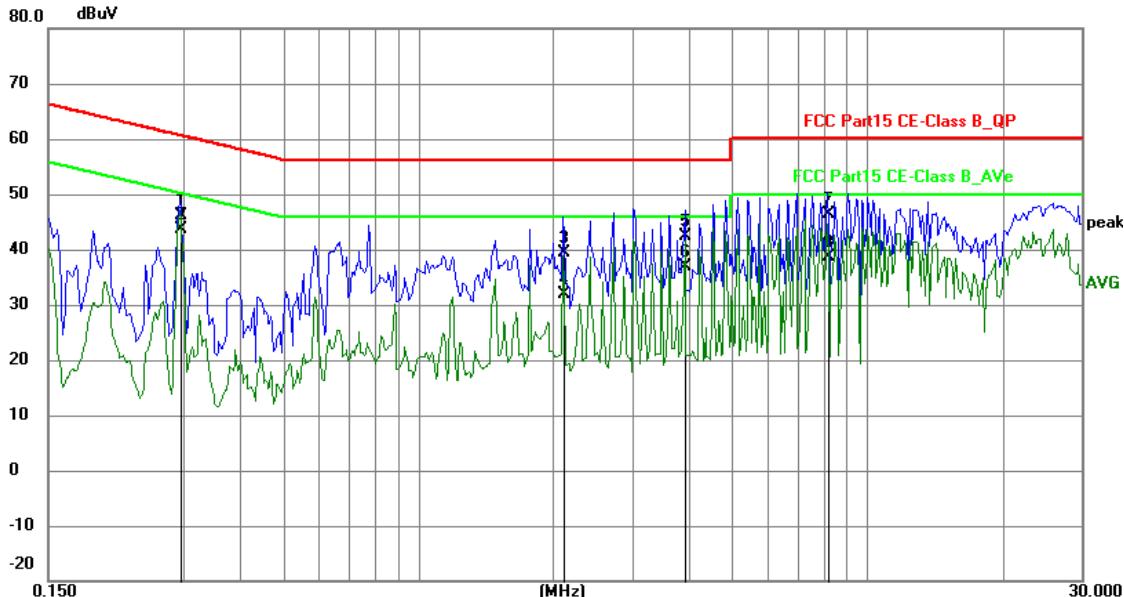
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 3W+15W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2943	36.33	9.76	46.09	60.40	-14.31	QP	P
2	0.2943	33.97	9.76	43.73	50.40	-6.67	AVG	P
3	2.1039	29.47	9.80	39.27	56.00	-16.73	QP	P
4	2.1039	22.04	9.80	31.84	46.00	-14.16	AVG	P
5	3.9321	32.55	9.88	42.43	56.00	-13.57	QP	P
6	3.9321	27.05	9.88	36.93	46.00	-9.07	AVG	P
7	8.1674	36.36	10.07	46.43	60.00	-13.57	QP	P
8	8.1674	28.48	10.07	38.55	50.00	-11.45	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

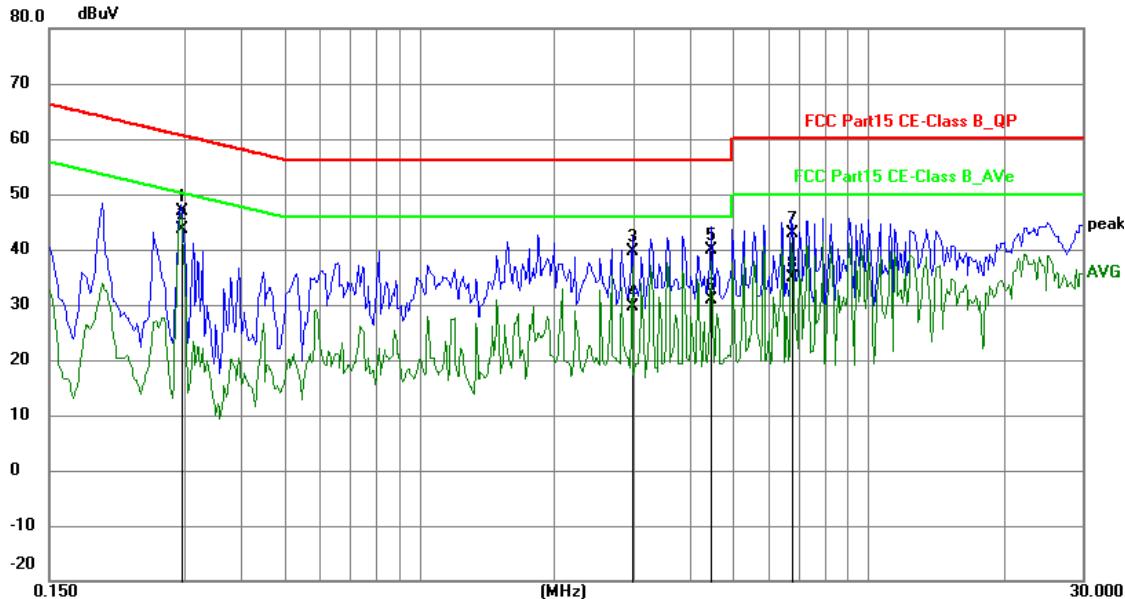
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 3W+15W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2943	37.23	9.76	46.99	60.40	-13.41	QP	P
2	0.2943	33.91	9.76	43.67	50.40	-6.73	AVG	P
3	2.9814	29.85	9.84	39.69	56.00	-16.31	QP	P
4	2.9814	19.74	9.84	29.58	46.00	-16.42	AVG	P
5	4.4742	29.97	9.91	39.88	56.00	-16.12	QP	P
6	4.4742	20.88	9.91	30.79	46.00	-15.21	AVG	P
7	6.7401	32.83	10.00	42.83	60.00	-17.17	QP	P
8	6.7401	24.95	10.00	34.95	50.00	-15.05	AVG	P

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C: Conducted Emission on Live Terminal (150kHz to 30MHz)

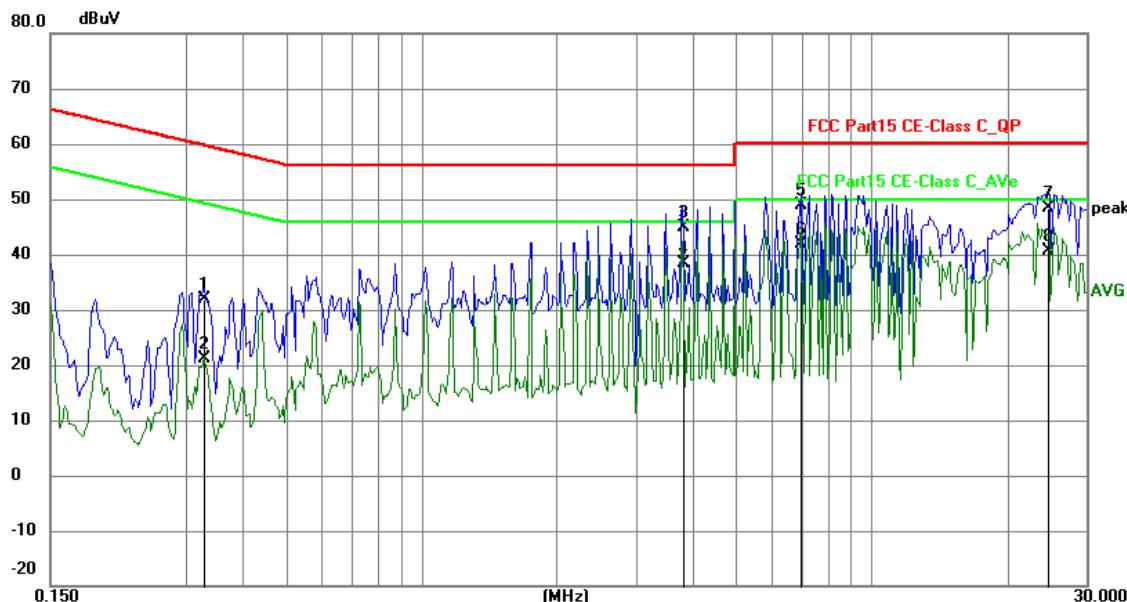
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 15W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3294	22.12	9.76	31.88	59.47	-27.59	QP	P
2	0.3294	11.38	9.76	21.14	49.47	-28.33	AVG	P
3	3.7995	34.98	9.88	44.86	56.00	-11.14	QP	P
4	3.7995	28.39	9.88	38.27	46.00	-7.73	AVG	P
5	6.9702	38.95	10.01	48.96	60.00	-11.04	QP	P
6	6.9702	31.81	10.01	41.82	50.00	-8.18	AVG	P
7	24.5436	37.48	10.96	48.44	60.00	-11.56	QP	P
8	24.5436	29.79	10.96	40.75	50.00	-9.25	AVG	P

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D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

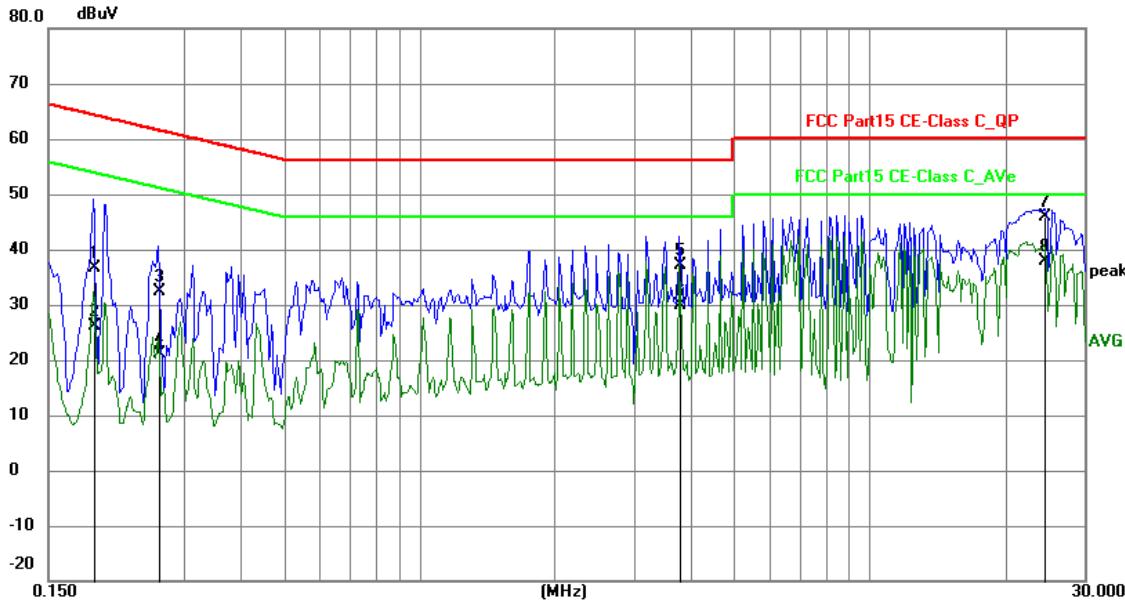
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 15W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1890	26.98	9.76	36.74	64.08	-27.34	QP	P
2	0.1890	16.30	9.76	26.06	54.08	-28.02	AVG	P
3	0.2631	22.66	9.75	32.41	61.33	-28.92	QP	P
4	0.2631	11.39	9.75	21.14	51.33	-30.19	AVG	P
5	3.7800	27.36	9.88	37.24	56.00	-18.76	QP	P
6	3.7800	20.04	9.88	29.92	46.00	-16.08	AVG	P
7	24.5163	34.86	10.96	45.82	60.00	-14.18	QP	P
8	24.5163	26.80	10.96	37.76	50.00	-12.24	AVG	P

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E: Conducted Emission on Live Terminal (150kHz to 30MHz)

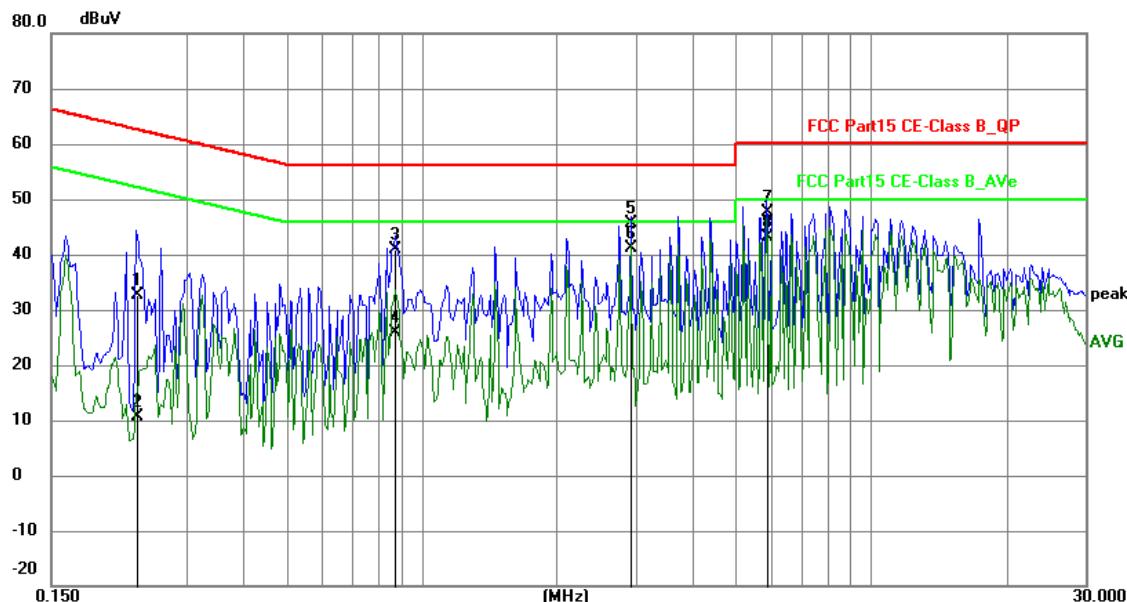
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 1.5W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2319	22.94	9.75	32.69	62.38	-29.69	QP	P
2	0.2319	0.83	9.75	10.58	52.38	-41.80	AVG	P
3	0.8754	31.08	9.79	40.87	56.00	-15.13	QP	P
4	0.8754	16.05	9.79	25.84	46.00	-20.16	AVG	P
5	2.9190	35.88	9.84	45.72	56.00	-10.28	QP	P
6	2.9190	31.33	9.84	41.17	46.00	-4.83	AVG	P
7	5.8431	37.68	9.96	47.64	60.00	-12.36	QP	P
8	5.8431	33.11	9.96	43.07	50.00	-6.93	AVG	P

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F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

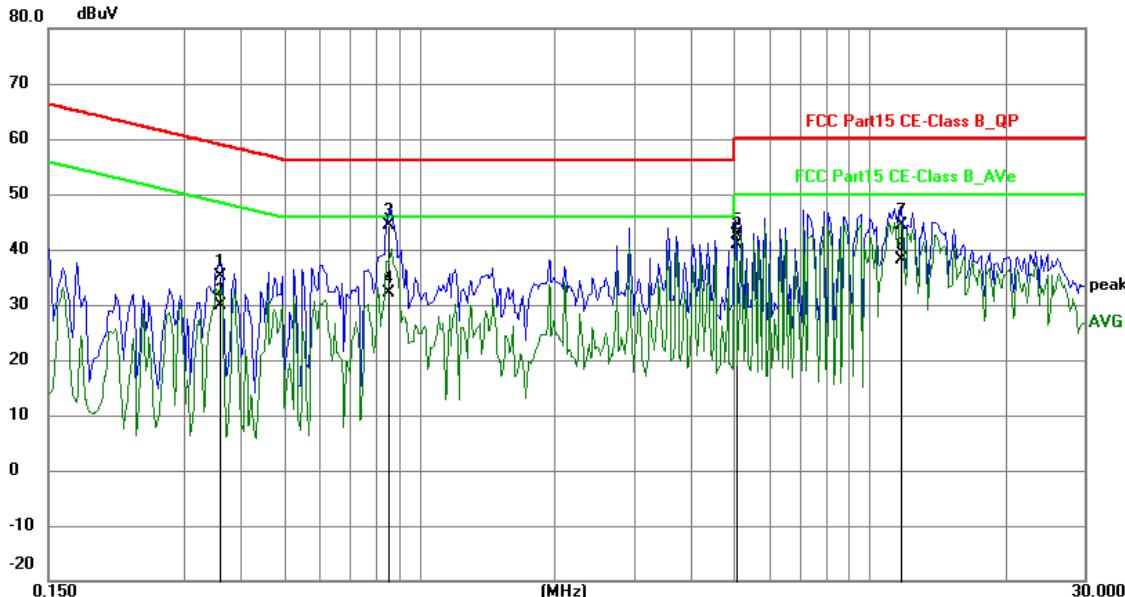
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 1.5W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3605	25.25	9.76	35.01	58.72	-23.71	QP	P
2	0.3605	20.04	9.76	29.80	48.72	-18.92	AVG	P
3	0.8559	34.51	9.79	44.30	56.00	-11.70	QP	P
4	0.8559	22.33	9.79	32.12	46.00	-13.88	AVG	P
5	5.0319	32.76	9.93	42.69	60.00	-17.31	QP	P
6	5.0319	30.93	9.93	40.86	50.00	-9.14	AVG	P
7	11.6853	34.20	10.23	44.43	60.00	-15.57	QP	P
8	11.6853	27.97	10.23	38.20	50.00	-11.80	AVG	P

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G: Conducted Emission on Live Terminal (150kHz to 30MHz)

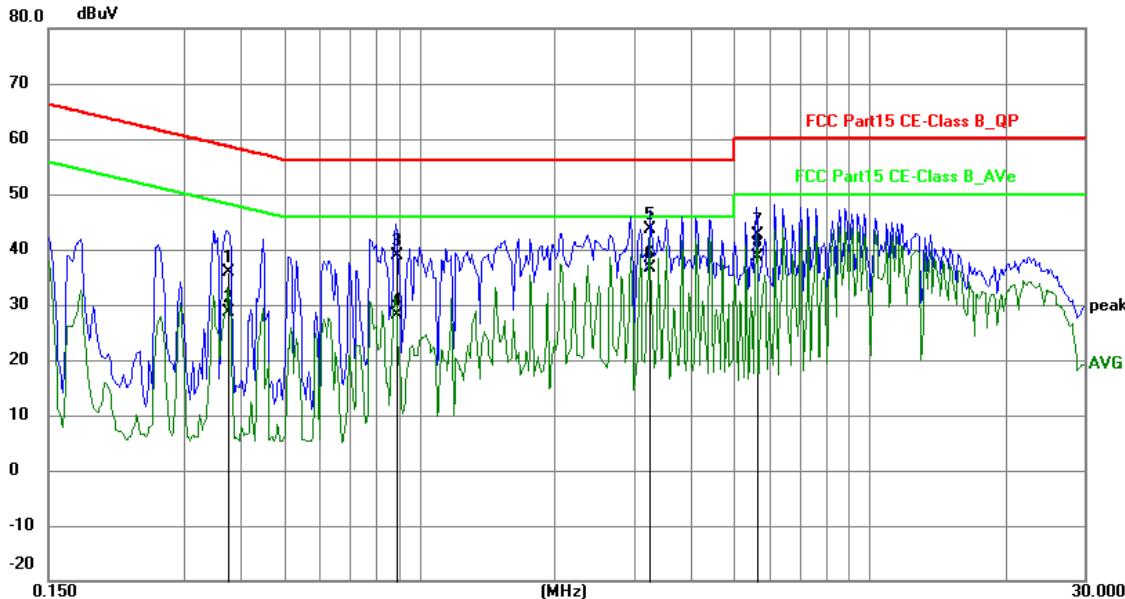
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 1.5W+15W+3W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3762	26.19	9.76	35.95	58.36	-22.41	QP	P
2	0.3762	18.91	9.76	28.67	48.36	-19.69	AVG	P
3	0.8871	29.09	9.79	38.88	56.00	-17.12	QP	P
4	0.8871	18.22	9.79	28.01	46.00	-17.99	AVG	P
5	3.2457	33.90	9.85	43.75	56.00	-12.25	QP	P
6	3.2457	26.75	9.85	36.60	46.00	-9.40	AVG	P
7	5.6052	32.76	9.95	42.71	60.00	-17.29	QP	P
8	5.6052	28.61	9.95	38.56	50.00	-11.44	AVG	P

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H: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

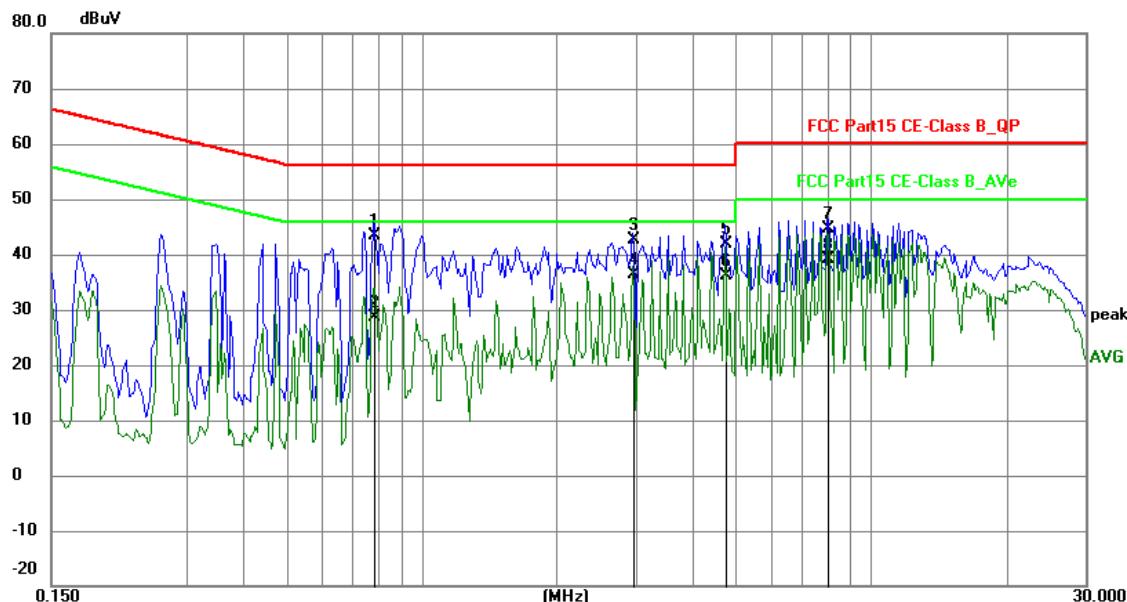
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 1.5W+15W+3W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.7818	33.48	9.78	43.26	56.00	-12.74	QP	P
2	0.7818	18.80	9.78	28.58	46.00	-17.42	AVG	P
3	2.9541	32.88	9.84	42.72	56.00	-13.28	QP	P
4	2.9541	26.45	9.84	36.29	46.00	-9.71	AVG	P
5	4.7237	31.93	9.92	41.85	56.00	-14.15	QP	P
6	4.7237	26.24	9.92	36.16	46.00	-9.84	AVG	P
7	8.0193	34.48	10.06	44.54	60.00	-15.46	QP	P
8	8.0193	29.03	10.06	39.09	50.00	-10.91	AVG	P

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I: Conducted Emission on Live Terminal (150kHz to 30MHz)

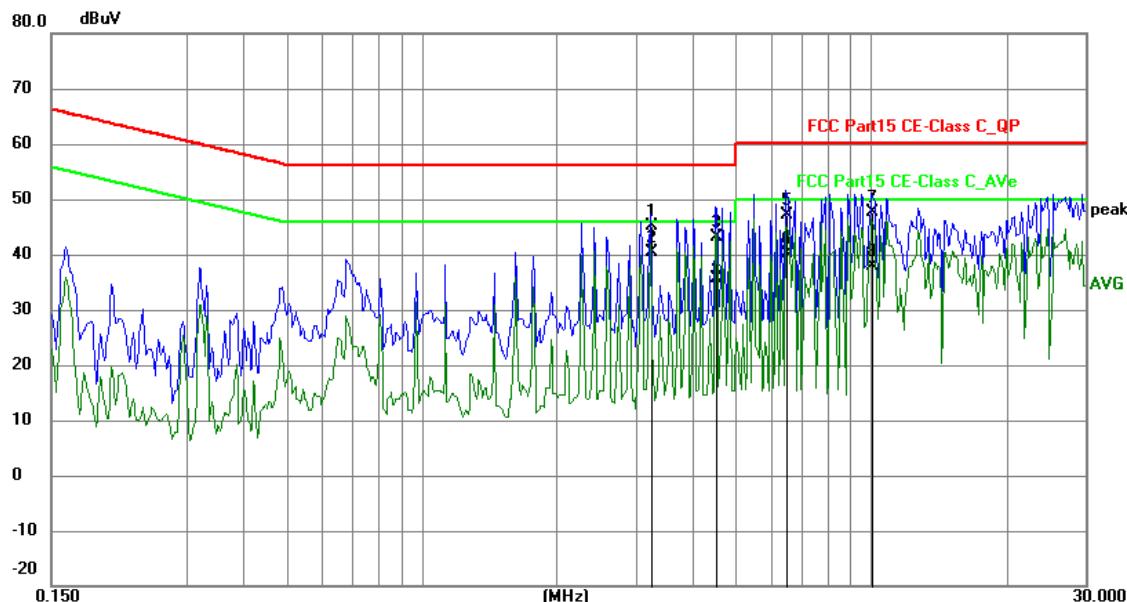
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 3W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	3.2340	35.32	9.85	45.17	56.00	-10.83	QP	P
2	3.2340	30.49	9.85	40.34	46.00	-5.66	AVG	P
3	4.5249	33.32	9.91	43.23	56.00	-12.77	QP	P
4	4.5249	25.77	9.91	35.68	46.00	-10.32	AVG	P
5	6.4710	37.05	9.99	47.04	60.00	-12.96	QP	P
6	6.4710	30.04	9.99	40.03	50.00	-9.97	AVG	P
7	10.0278	37.39	10.16	47.55	60.00	-12.45	QP	P
8	10.0278	27.83	10.16	37.99	50.00	-12.01	AVG	P

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J: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

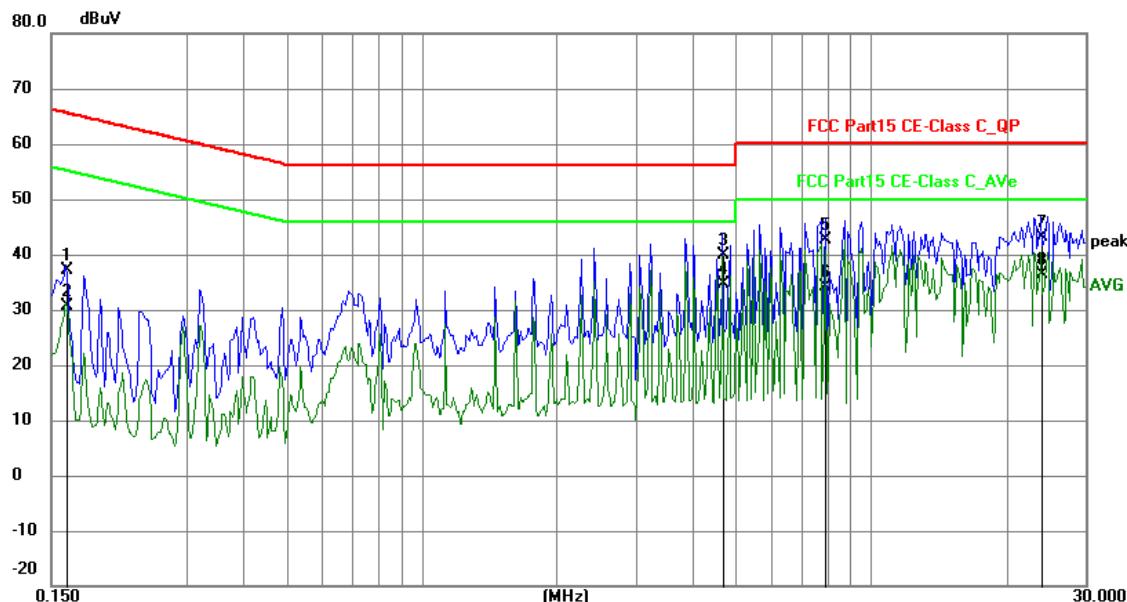
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Wireless Charging 3W

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	27.36	9.78	37.14	65.38	-28.24	QP	P
2	0.1617	20.82	9.78	30.60	55.38	-24.78	AVG	P
3	4.6887	29.90	9.92	39.82	56.00	-16.18	QP	P
4	4.6887	24.60	9.92	34.52	46.00	-11.48	AVG	P
5	7.9257	32.50	10.06	42.56	60.00	-17.44	QP	P
6	7.9257	24.12	10.06	34.18	50.00	-15.82	AVG	P
7	23.9391	32.29	10.92	43.21	60.00	-16.79	QP	P
8	23.9391	25.56	10.92	36.48	50.00	-13.52	AVG	P

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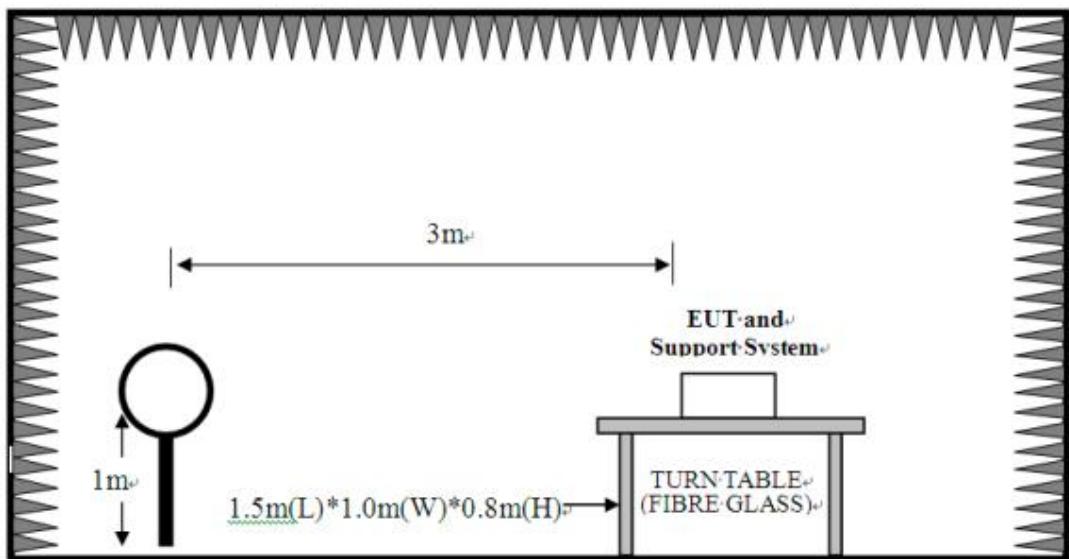
6.0 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

9kHz-30MHz



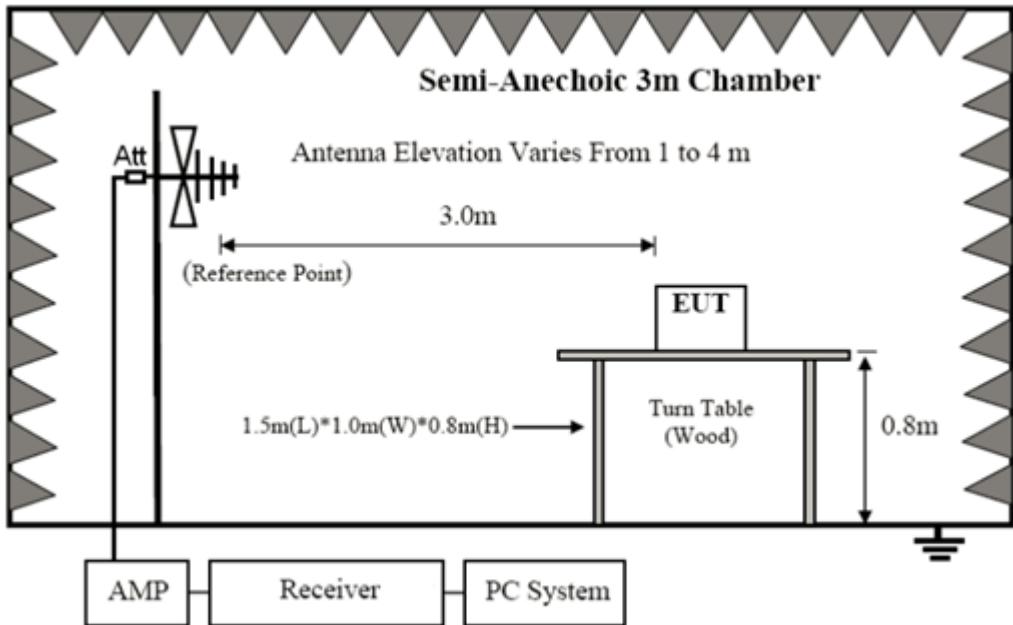
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30MHz-1000MHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

B. Frequencies in restricted band are compiled to limit on Paragraph 15.209.

Limits for frequency below 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30	30	30

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Limits for frequency above 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dB_uV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

6.5 Test result

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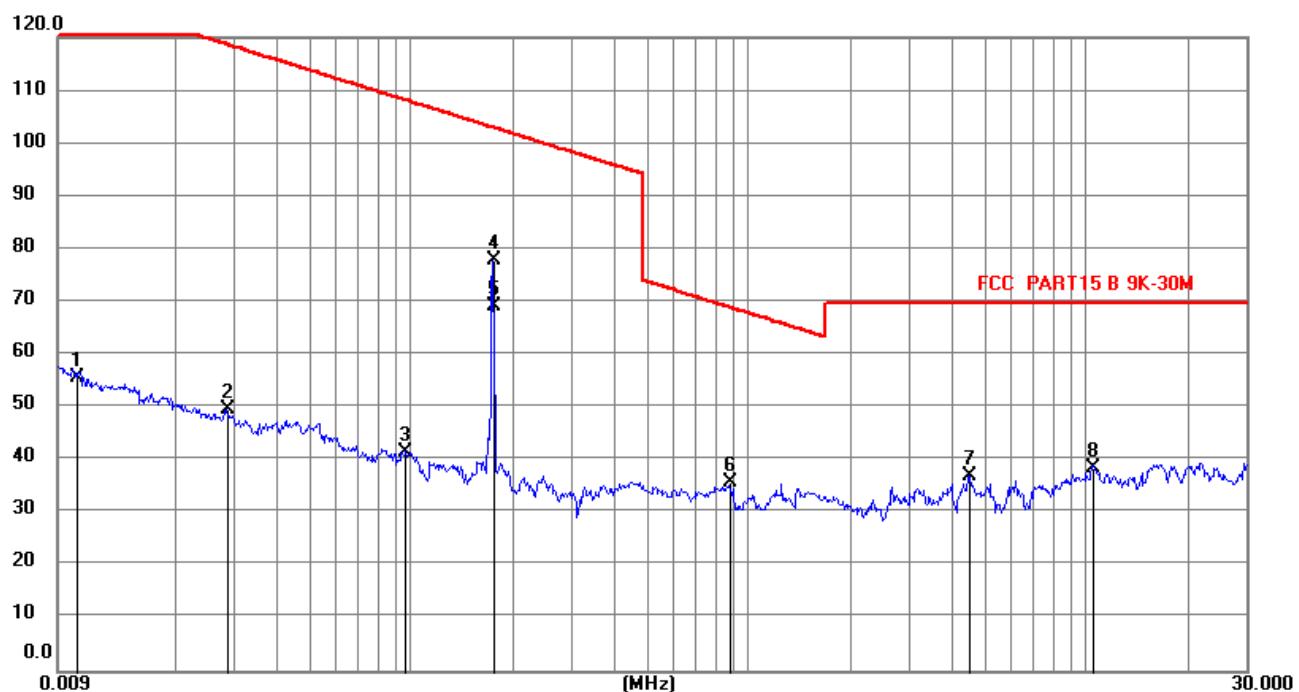


Measurement data: 15W+3W

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0103	45.69	10.00	55.69	127.16	-71.47	peak	P
2	0.0286	39.52	10.20	49.72	118.34	-68.62	peak	P
3	0.0966	31.68	9.81	41.49	107.83	-66.34	peak	P
4	0.1753	68.01	9.77	77.78	102.68	-24.90	peak	P
5	0.1753	59.38	9.77	69.15	102.68	-33.53	AVG	P
6	0.8820	25.94	9.79	35.73	68.71	-32.98	peak	P
7	4.5274	27.24	9.91	37.15	69.53	-32.38	peak	P
8	10.5000	28.30	10.18	38.48	69.56	-31.08	peak	P

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Measurement data: 15W

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0111	47.64	10.03	57.67	126.51	-68.84	peak	P
2	0.0189	44.24	10.32	54.56	121.92	-67.36	peak	P
3	0.0300	39.98	10.17	50.15	117.93	-67.78	peak	P
4	0.1753	62.60	9.77	72.37	102.68	-30.31	peak	P
5	0.1753	55.01	9.77	64.78	102.68	-37.90	AVG	P
6	1.2641	26.63	9.79	36.42	65.59	-29.17	peak	P
7	4.3475	25.68	9.90	35.58	69.53	-33.95	peak	P
8	12.9375	30.62	10.29	40.91	69.57	-28.66	peak	P

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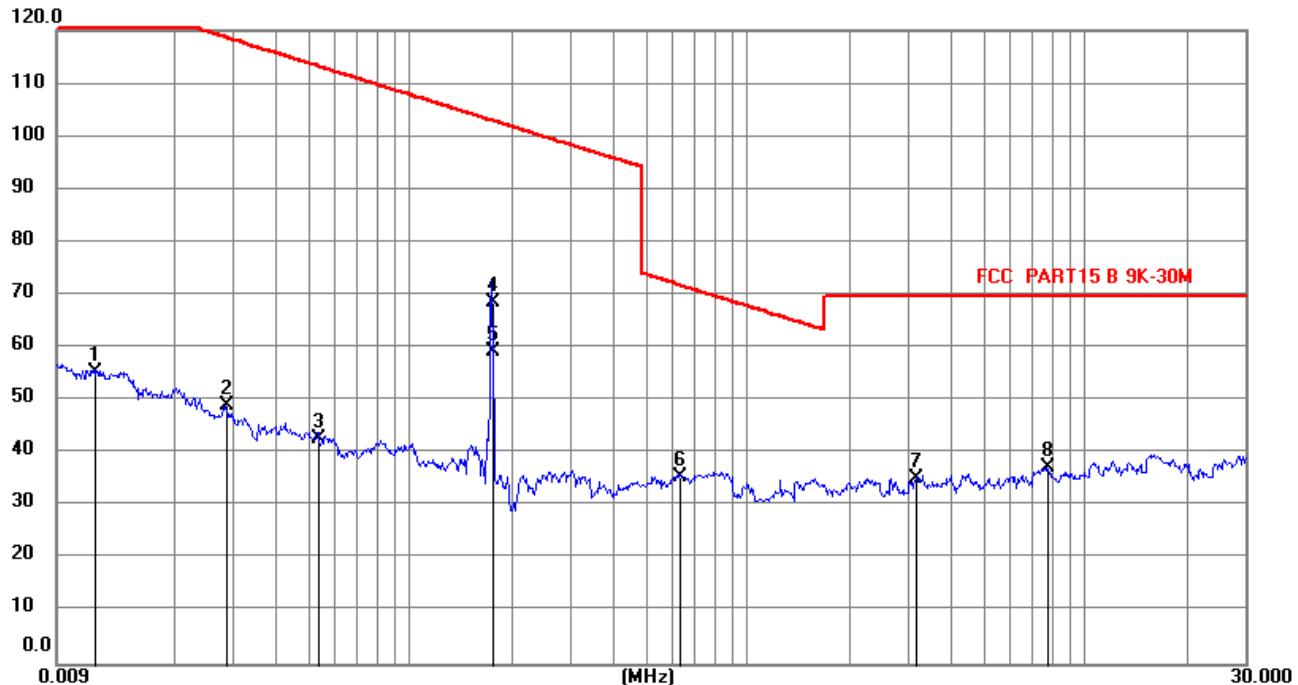


Measurement data: 3W

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0117	45.35	10.06	55.41	126.06	-70.65	peak	P
2	0.0286	38.88	10.20	49.08	118.34	-69.26	peak	P
3	0.0534	32.94	9.79	42.73	112.95	-70.22	peak	P
4	0.1753	58.79	9.77	68.56	102.68	-34.12	peak	P
5	0.1753	49.60	9.77	59.37	102.68	-43.31	AVG	P
6	0.6350	25.63	9.78	35.41	71.55	-36.14	peak	P
7	3.1549	25.32	9.85	35.17	69.52	-34.35	peak	P
8	7.7500	27.27	10.05	37.32	69.55	-32.23	peak	P

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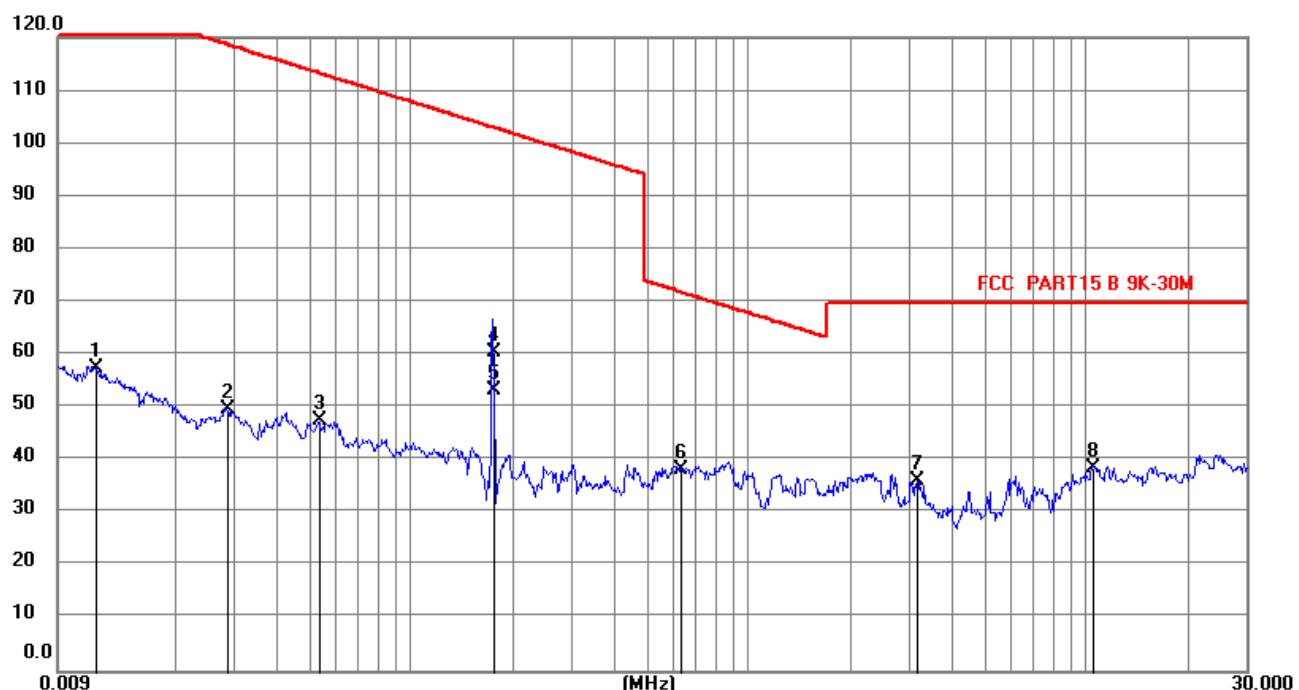


Measurement data: 1.5W

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0117	47.34	10.06	57.40	126.06	-68.66	peak	P
2	0.0286	39.57	10.20	49.77	118.34	-68.57	peak	P
3	0.0534	37.72	9.79	47.51	112.95	-65.44	peak	P
4	0.1753	50.72	9.77	60.49	102.68	-42.19	peak	P
5	0.1753	43.39	9.77	53.16	102.68	-49.52	AVG	P
6	0.6350	28.40	9.78	38.18	71.55	-33.37	peak	P
7	3.1549	26.29	9.85	36.14	69.52	-33.38	peak	P
8	10.5000	28.25	10.18	38.43	69.56	-31.13	peak	P

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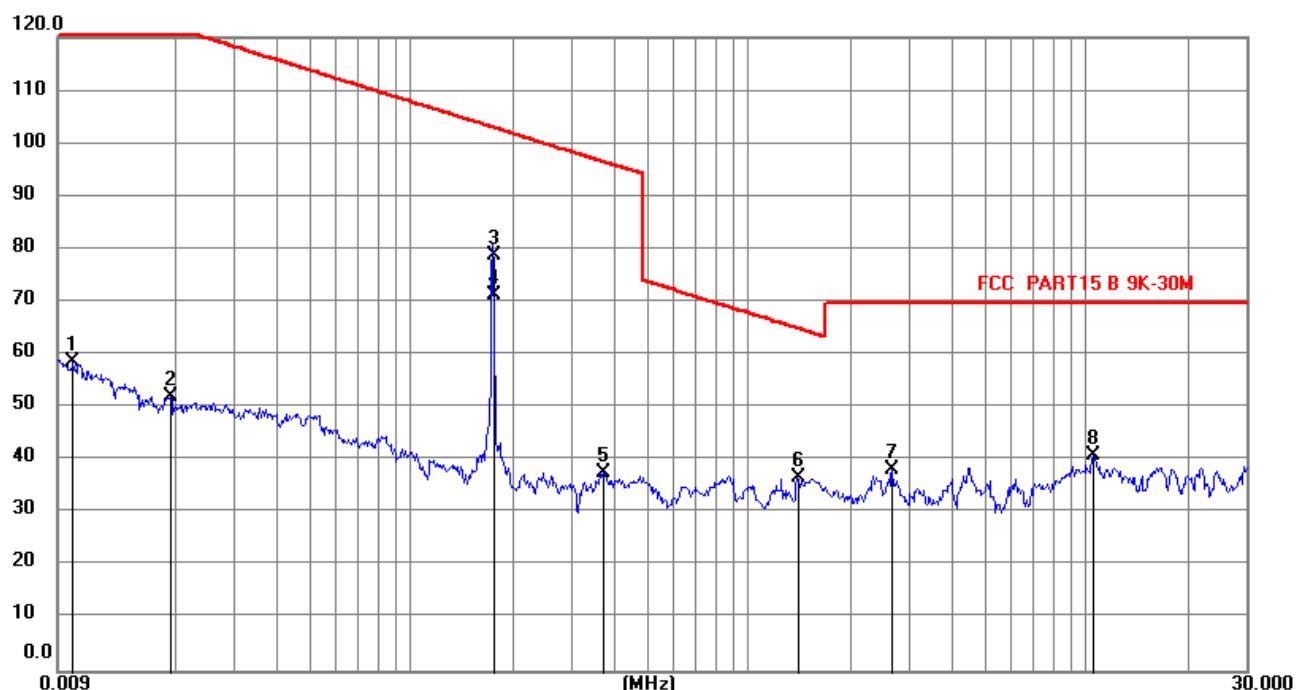


Measurement data: 15W+3W+1.5W

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0100	48.56	9.99	58.55	127.42	-68.87	peak	P
2	0.0194	41.77	10.34	52.11	121.69	-69.58	peak	P
3	0.1753	68.89	9.77	78.66	102.68	-24.02	peak	P
4	0.1753	61.50	9.77	71.27	102.68	-31.41	AVG	P
5	0.3704	27.96	9.76	37.72	96.22	-58.50	peak	P
6	1.4000	26.85	9.79	36.64	64.71	-28.07	peak	P
7	2.6711	28.52	9.83	38.35	69.52	-31.17	peak	P
8	10.5000	30.83	10.18	41.01	69.56	-28.55	peak	P

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A. General Radiated Emission Data

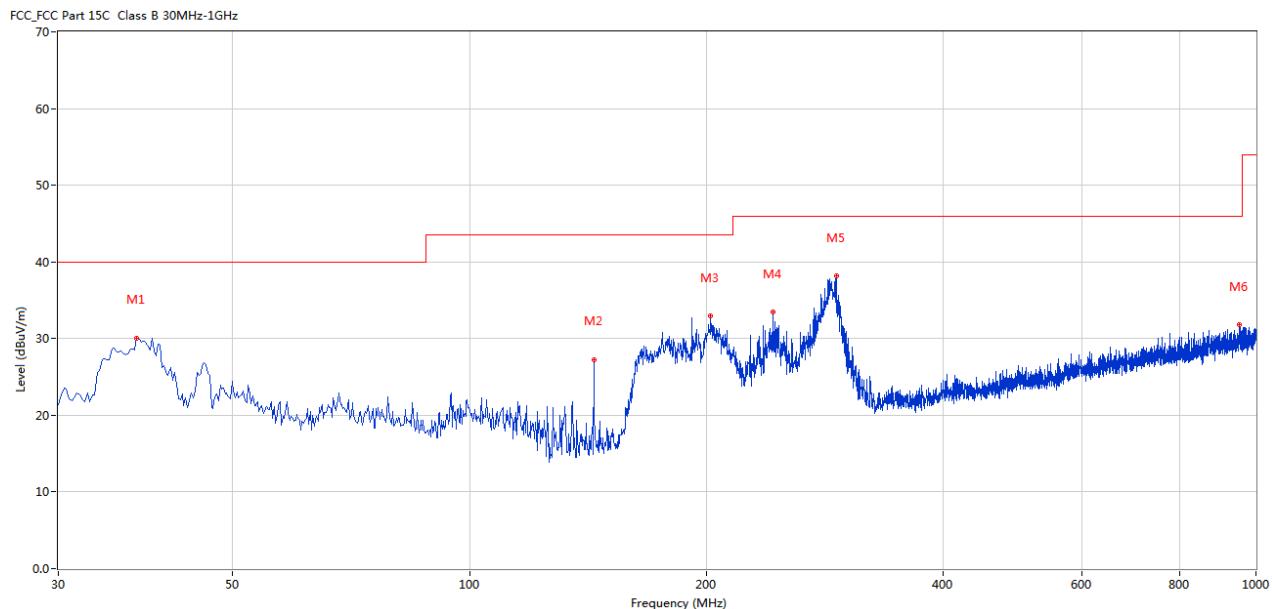
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-12_14.01.14

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	15W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.758	30.09	-12.84	40.0	9.91	Peak	356.00	100	Horizontal	Pass
2	143.947	27.28	-17.10	43.5	16.22	Peak	308.00	100	Horizontal	Pass
3	202.617	32.91	-13.40	43.5	10.59	Peak	274.00	100	Horizontal	Pass
4	243.347	33.47	-12.20	46.0	12.53	Peak	91.00	100	Horizontal	Pass
5	292.562	38.13	-11.26	46.0	7.87	Peak	277.00	100	Horizontal	Pass
6	952.724	31.80	-1.77	46.0	14.20	Peak	136.00	100	Horizontal	Pass

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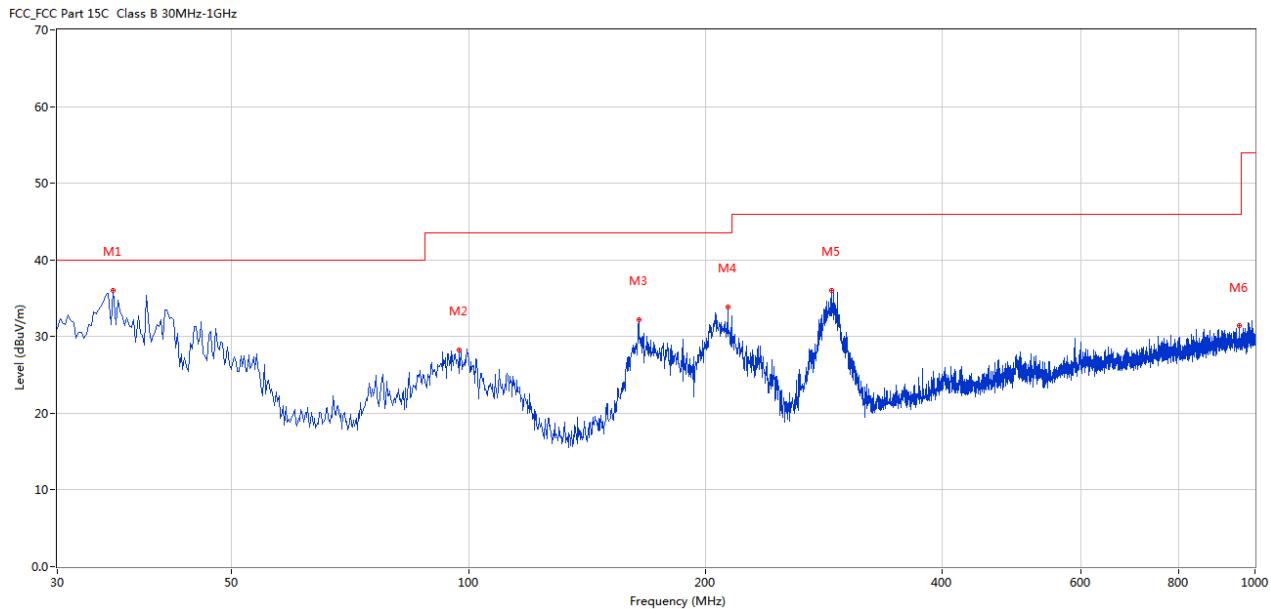
B. General Radiated Emission Data

Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting
Results: Pass

Test Time: 2024-09-12_14.02.41

EUT Name: 4-in-1 Wireless Charging Phone Test Standard: FCC
Stand
Manufacturer: Cosmo Fiber Corp. Work Addition: Wireless Charging
Model: AB0504 Load: 15W
Temp.(°C): 25 Remark:
Hum.: 65% Test Voltage: 120V~, 60Hz
Test Engineer: JERRY Temp.(oC): 25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.334	36.05	-13.92	40.0	3.95	Peak	296.00	100	Vertical	Pass
2	97.398	28.31	-13.85	43.5	15.19	Peak	179.00	100	Vertical	Pass
3	164.554	32.23	-16.25	43.5	11.27	Peak	264.00	100	Vertical	Pass
4	213.769	33.90	-13.61	43.5	9.60	Peak	186.00	100	Vertical	Pass
5	289.168	36.05	-11.23	46.0	9.95	Peak	186.00	100	Vertical	Pass
6	954.664	31.44	-1.69	46.0	14.56	Peak	154.00	100	Vertical	Pass

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C. General Radiated Emission Data

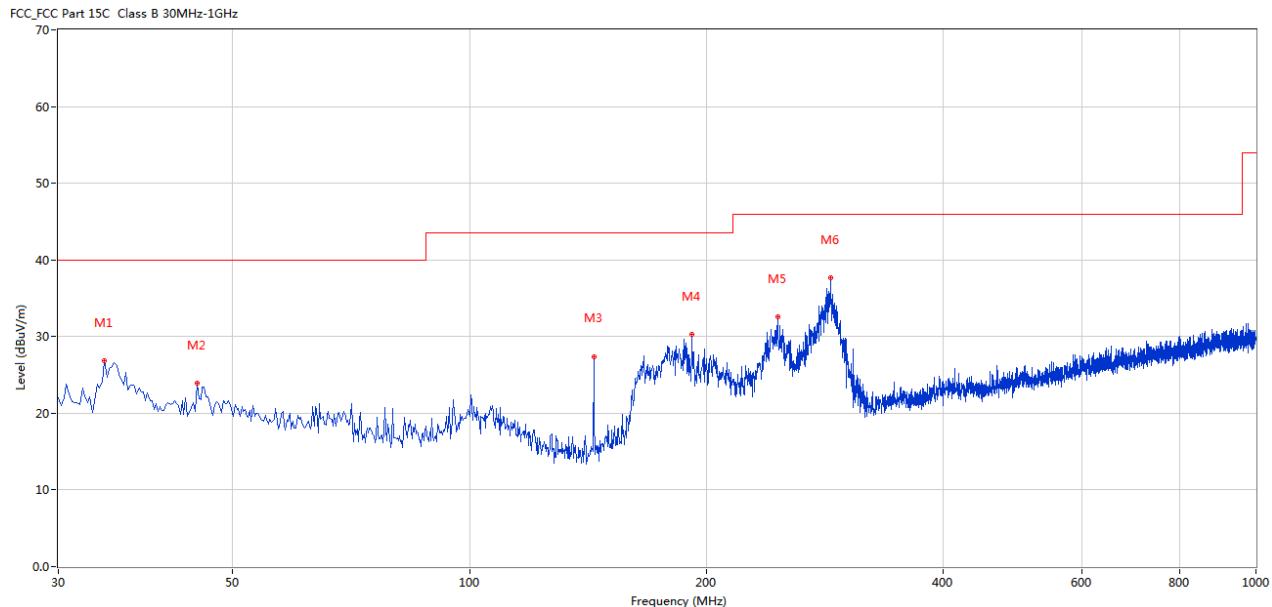
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-12_13.58.26

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
Stand			
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.364	26.81	-14.17	40.0	13.19	Peak	22.00	100	Horizontal	Pass
2	45.031	23.88	-11.41	40.0	16.12	Peak	44.00	100	Horizontal	Pass
3	143.947	27.39	-17.10	43.5	16.11	Peak	270.00	100	Horizontal	Pass
4	191.950	30.26	-14.07	43.5	13.24	Peak	265.00	100	Horizontal	Pass
5	246.498	32.57	-12.15	46.0	13.43	Peak	77.00	100	Horizontal	Pass
6	287.956	37.65	-11.27	46.0	8.35	Peak	80.00	100	Horizontal	Pass

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D. General Radiated Emission Data

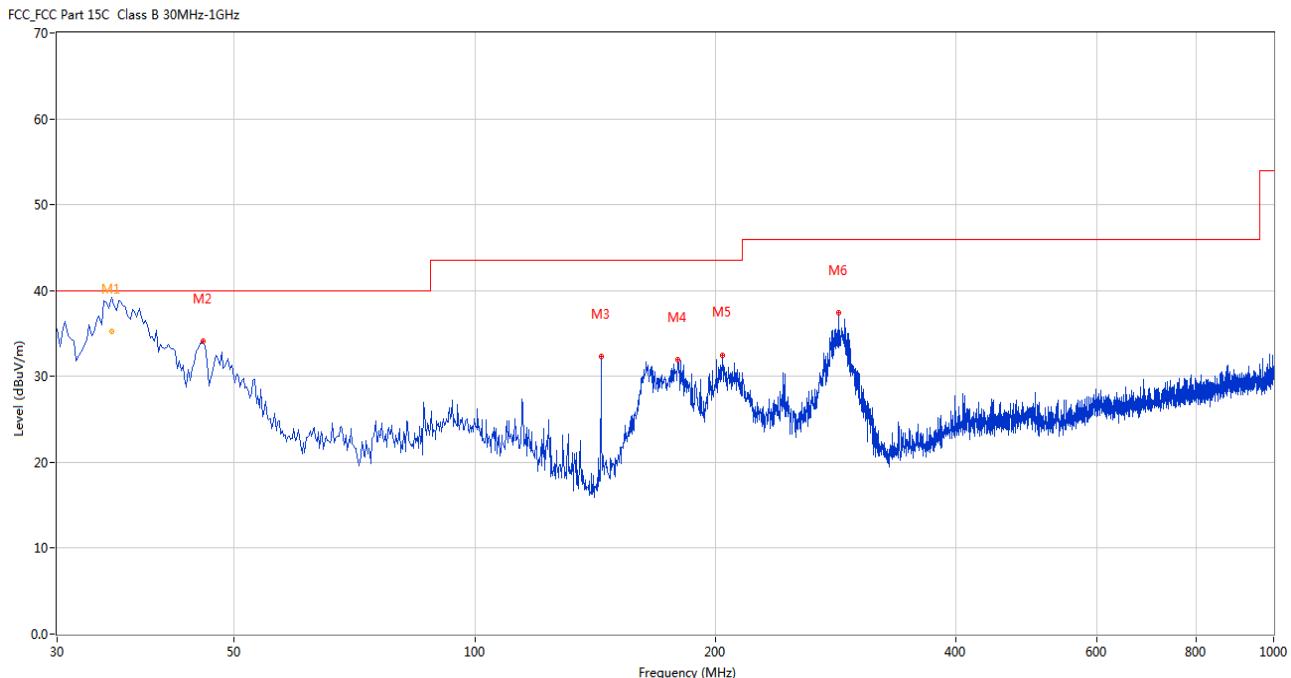
Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-12_13.56.15

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.091	39.19	-14.00	40.0	0.81	Peak	214.00	100	Vertical	Pass
1*	35.091	35.28	-14.00	40.0	4.72	QP	214.00	100	Vertical	Pass
2	45.759	34.06	-11.40	40.0	5.94	Peak	221.00	100	Vertical	Pass
3	143.947	32.27	-17.10	43.5	11.23	Peak	311.00	100	Vertical	Pass
4	179.343	31.90	-15.38	43.5	11.60	Peak	213.00	100	Vertical	Pass
5	204.071	32.52	-13.51	43.5	10.98	Peak	178.00	100	Vertical	Pass
6	285.774	37.37	-11.32	46.0	8.63	Peak	246.00	100	Vertical	Pass

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E. General Radiated Emission Data

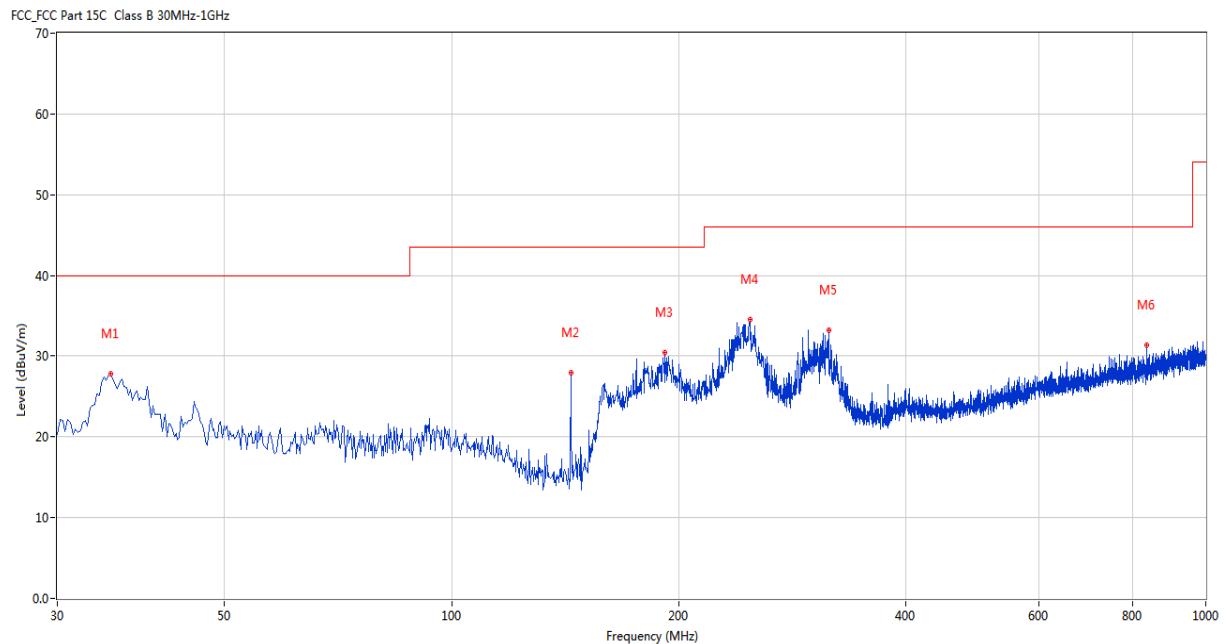
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-20_17.05.41

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	1.5W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.334	27.76	-13.92	40.0	12.24	Peak	55.00	100	Horizontal	Pass
2	143.947	27.91	-17.10	43.5	15.59	Peak	306.00	100	Horizontal	Pass
3	191.950	30.43	-14.07	43.5	13.07	Peak	85.00	100	Horizontal	Pass
4	248.438	34.51	-12.19	46.0	11.49	Peak	196.00	100	Horizontal	Pass
5	316.563	33.27	-10.79	46.0	12.73	Peak	80.00	100	Horizontal	Pass
6	834.414	31.34	-2.70	46.0	14.66	Peak	37.00	100	Horizontal	Pass

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F. General Radiated Emission Data

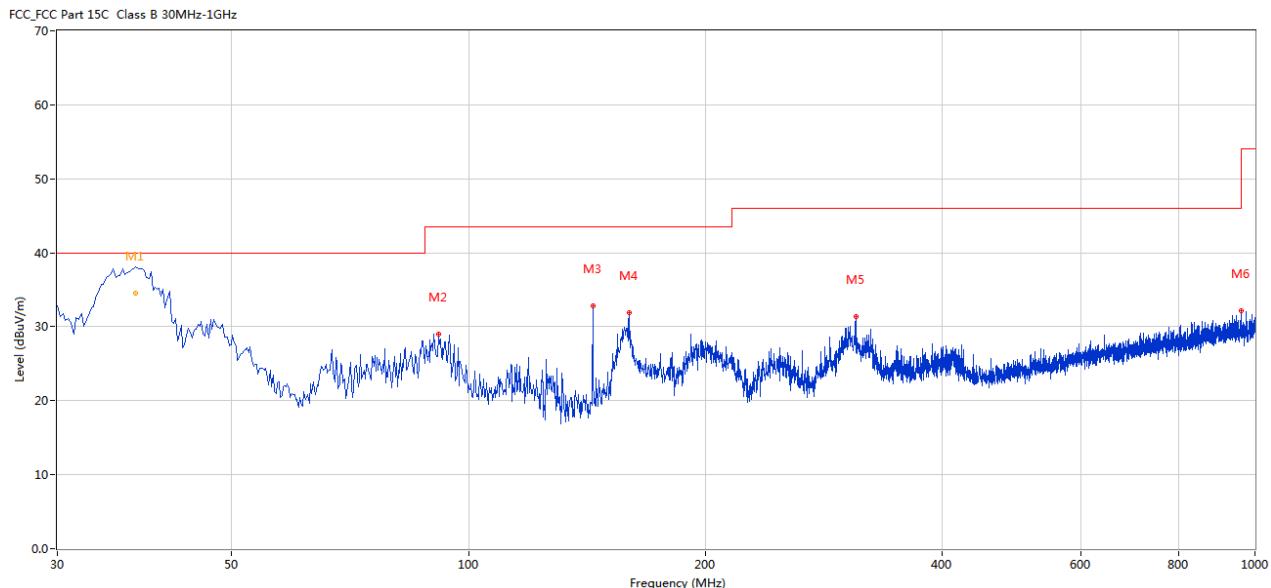
Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-20_17.08.44

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	1.5W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(°C):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.758	38.13	-12.84	40.0	1.87	Peak	12.00	150	Vertical	Pass
1*	37.758	34.58	-12.84	40.0	5.42	QP	12.00	150	Vertical	Pass
2	91.580	29.01	-14.78	43.5	14.49	Peak	35.00	150	Vertical	Pass
3	143.947	32.80	-17.10	43.5	10.70	Peak	252.00	150	Vertical	Pass
4	160.190	31.94	-16.34	43.5	11.56	Peak	247.00	150	Vertical	Pass
5	310.745	31.35	-10.72	46.0	14.65	Peak	244.00	150	Vertical	Pass
6	959.755	32.13	-1.63	46.0	13.87	Peak	1.00	150	Vertical	Pass

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G. General Radiated Emission Data

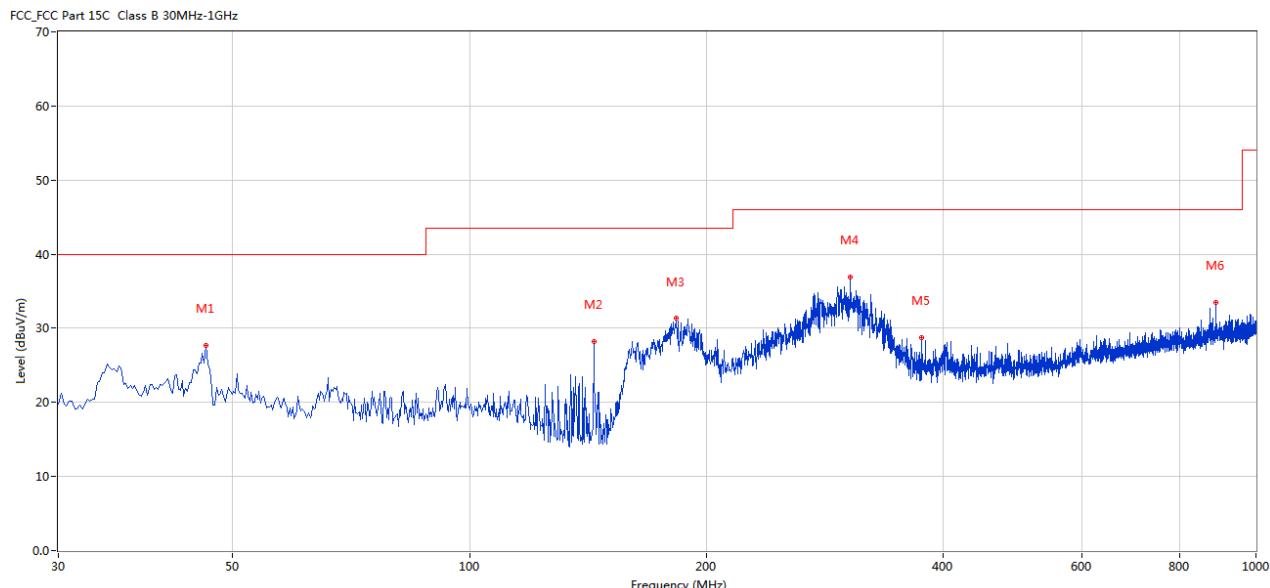
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-20_17.16.24

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	1.5W+15W+3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.243	27.72	-11.41	40.0	12.28	Peak	8.00	100	Horizontal	Pass
2	143.947	28.24	-17.10	43.5	15.26	Peak	289.00	100	Horizontal	Pass
3	183.222	31.31	-14.95	43.5	12.19	Peak	285.00	100	Horizontal	Pass
4	305.169	36.93	-10.93	46.0	9.07	Peak	77.00	100	Horizontal	Pass
5	375.234	28.77	-9.42	46.0	17.23	Peak	243.00	100	Horizontal	Pass
6	888.720	33.45	-1.93	46.0	12.55	Peak	56.00	100	Horizontal	Pass

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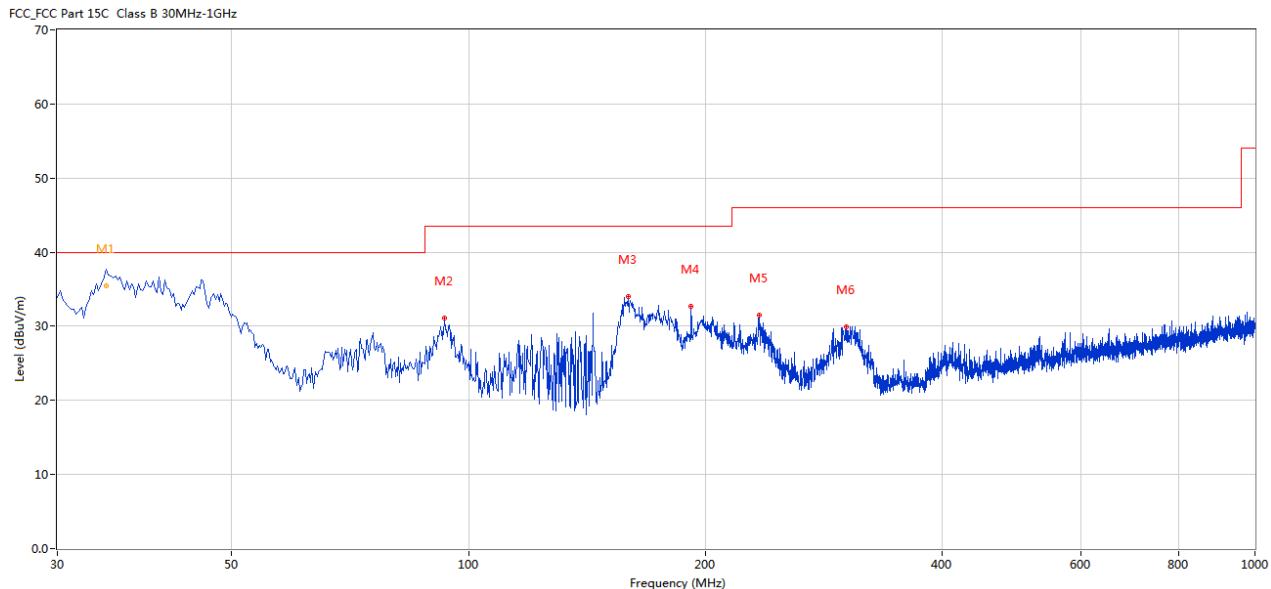
H. General Radiated Emission Data

Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting
Results: Pass

Test Time: 2024-09-20_17.11.59

EUT Name: 4-in-1 Wireless Charging Phone Test Standard: FCC
Stand
Manufacturer: Cosmo Fiber Corp. Work Addition: Wireless Charging
Model: AB0504 Load: 1.5W+15W+3W
Temp.(°C): 25 Remark:
Hum.: 65% Test Voltage: 120V~, 60Hz
Test Engineer: JERRY Temp.(oC): 25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.606	37.67	-14.11	40.0	2.33	Peak	203.00	100	Vertical	Pass
1*	34.606	35.52	-14.11	40.0	4.48	QP	203.00	100	Vertical	Pass
2	93.277	31.06	-14.43	43.5	12.44	Peak	45.00	100	Vertical	Pass
3	159.463	34.06	-16.40	43.5	9.44	Peak	258.00	100	Vertical	Pass
4	191.950	32.66	-14.07	43.5	10.84	Peak	173.00	100	Vertical	Pass
5	234.134	31.51	-12.53	46.0	14.49	Peak	243.00	100	Vertical	Pass
6	302.017	29.97	-10.99	46.0	16.03	Peak	248.00	100	Vertical	Pass

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I. General Radiated Emission Data

Radiated Emission In Vertical (30MHz---1000MHz)

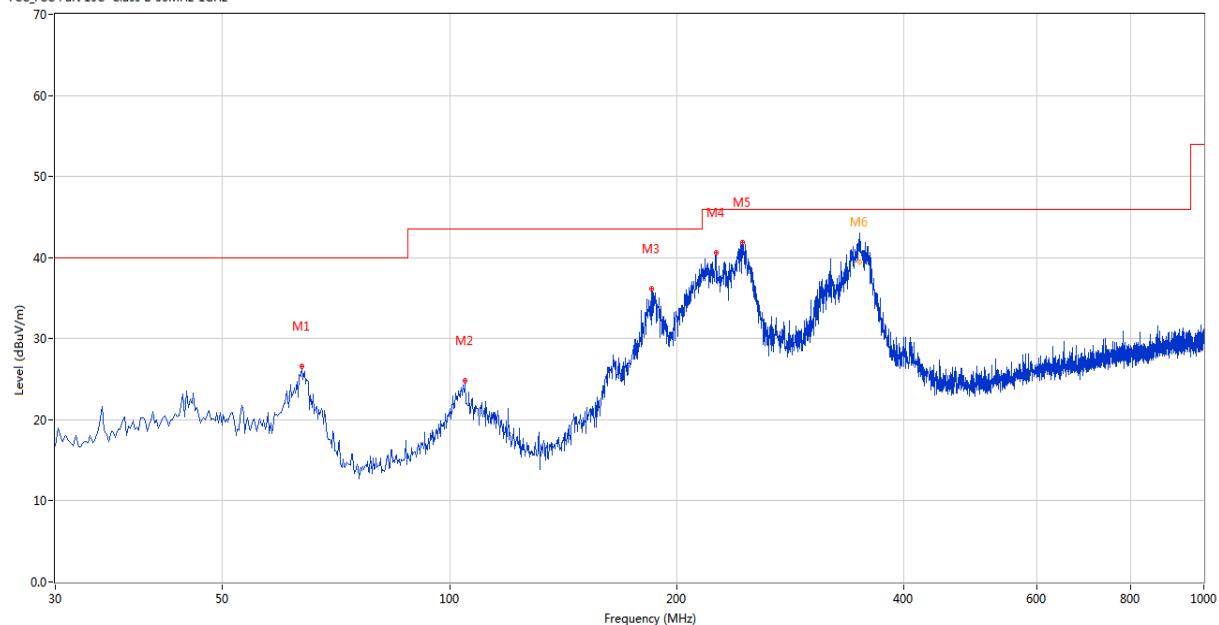
EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-12_14.13.39

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	15W+3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.699	26.54	-13.33	40.0	13.46	Peak	340.00	100	Horizontal	Pass
2	104.914	24.84	-13.23	43.5	18.66	Peak	104.00	100	Horizontal	Pass
3	185.404	36.17	-14.87	43.5	7.33	Peak	280.00	100	Horizontal	Pass
4	225.406	40.54	-12.89	46.0	5.46	Peak	281.00	100	Horizontal	Pass
5	244.801	41.84	-12.23	46.0	4.16	Peak	275.00	100	Horizontal	Pass
6	350.020	43.04	-9.32	46.0	2.96	Peak	289.00	100	Horizontal	Pass
6*	350.020	39.51	-9.32	46.0	6.49	QP	289.00	100	Horizontal	Pass

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J. General Radiated Emission Data

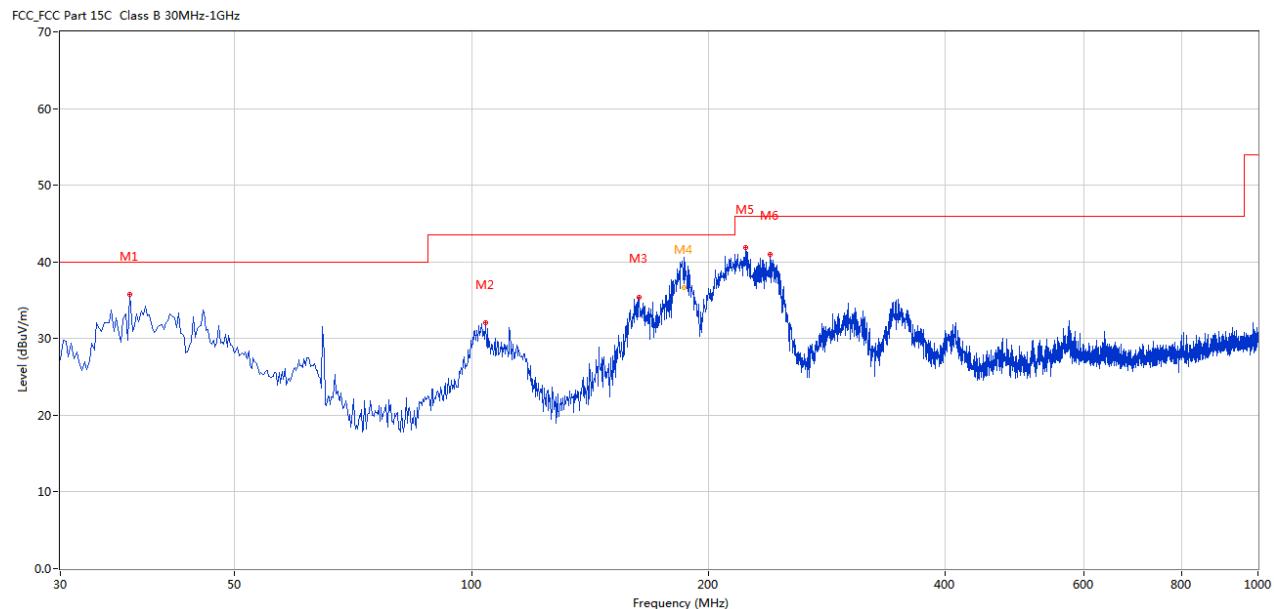
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Time: 2024-09-12_14.10.02

EUT Name:	4-in-1 Wireless Charging Phone	Test Standard:	FCC
	Stand		
Manufacturer:	Cosmo Fiber Corp.	Work Addition:	Wireless Charging
Model:	AB0504	Load:	15W+3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	JERRY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.788	35.79	-13.31	40.0	4.21	Peak	156.00	100	Vertical	Pass
2	104.186	32.05	-13.30	43.5	11.45	Peak	245.00	100	Vertical	Pass
3	163.342	35.39	-16.34	43.5	8.11	Peak	338.00	100	Vertical	Pass
4	186.373	40.59	-14.73	43.5	2.91	Peak	242.00	100	Vertical	Pass
4*	186.373	36.70	-14.73	43.5	6.80	QP	242.00	100	Vertical	Pass
5	222.982	41.84	-13.18	46.0	4.16	Peak	215.00	100	Vertical	Pass
6	239.710	41.02	-12.33	46.0	4.98	Peak	330.00	100	Vertical	Pass

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7.0 20dB Bandwidth Testing

7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

7.3 Test Data

Test Modes	Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
15W+3W	0.175	2.772	--	Pass
3W	0.175	2.772	--	Pass
15W	0.175	2.756	--	Pass
1.5W	0.175	2.772	--	Pass
1.5W+15W+3W	0.175	2.804	--	Pass

Refer to attached plots:

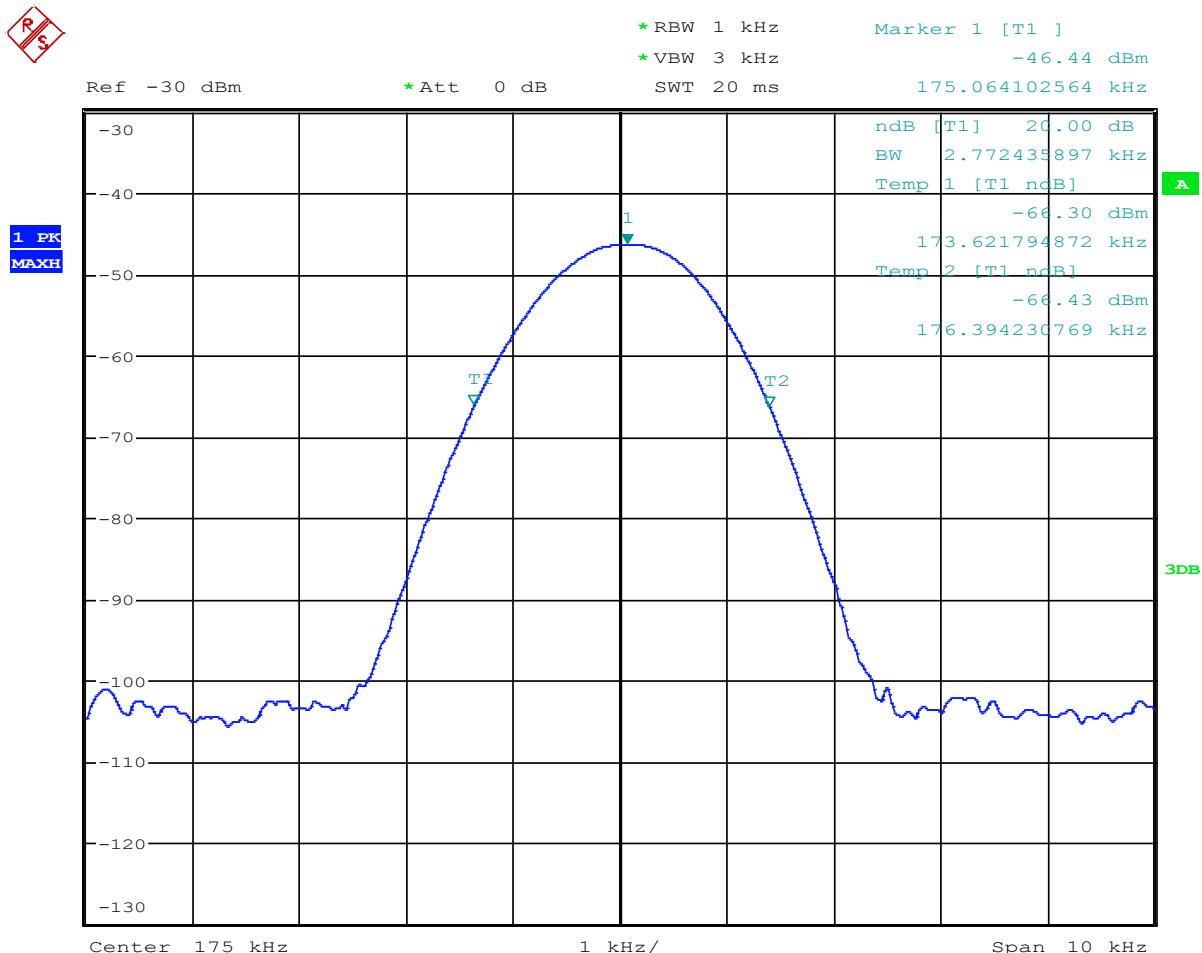
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20dB Bandwidth-15W+3W



Date: 11.SEP.2024 16:09:09

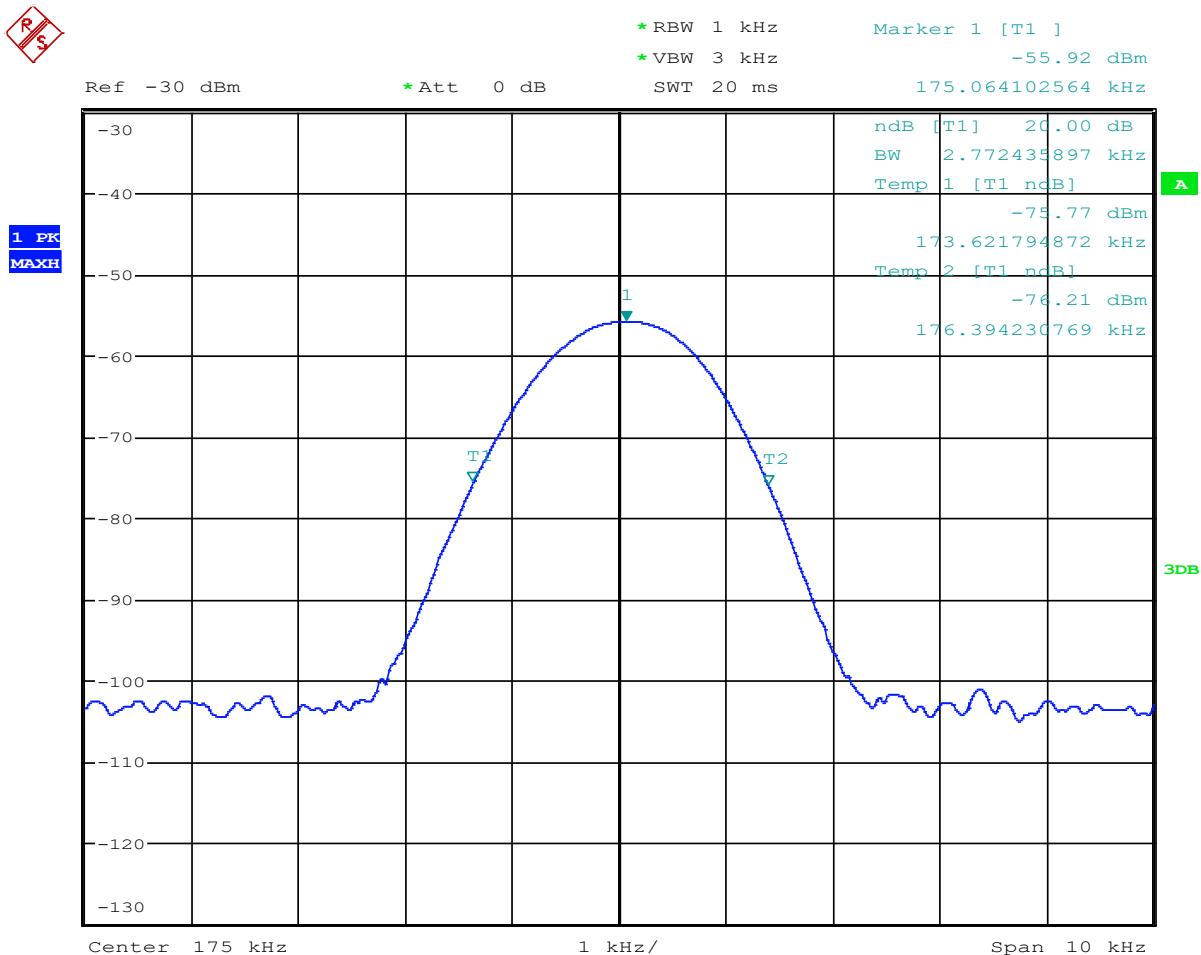
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20dB Bandwidth-3W



Date: 11.SEP.2024 16:02:23

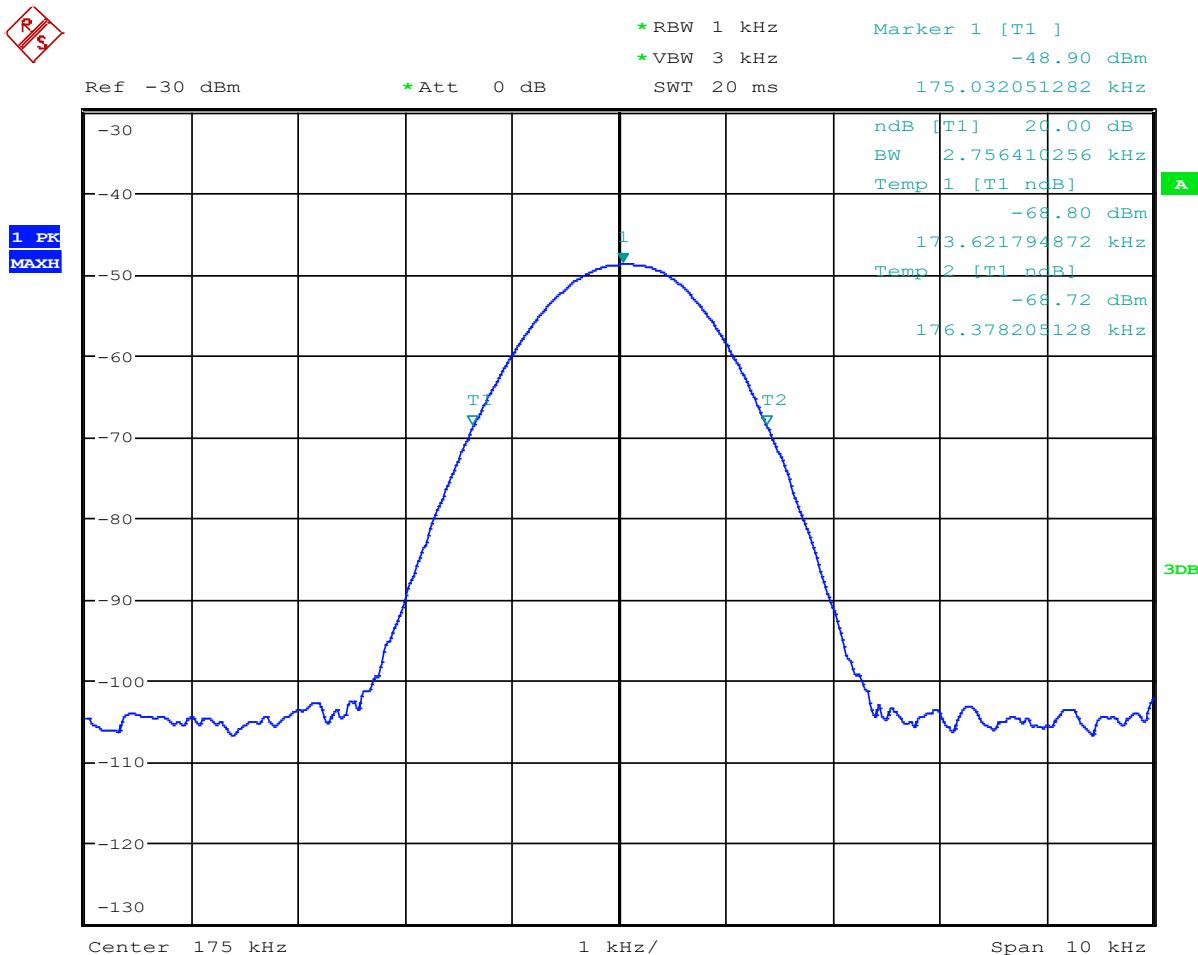
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20dB Bandwidth-15W



Date: 11.SEP.2024 16:09:50

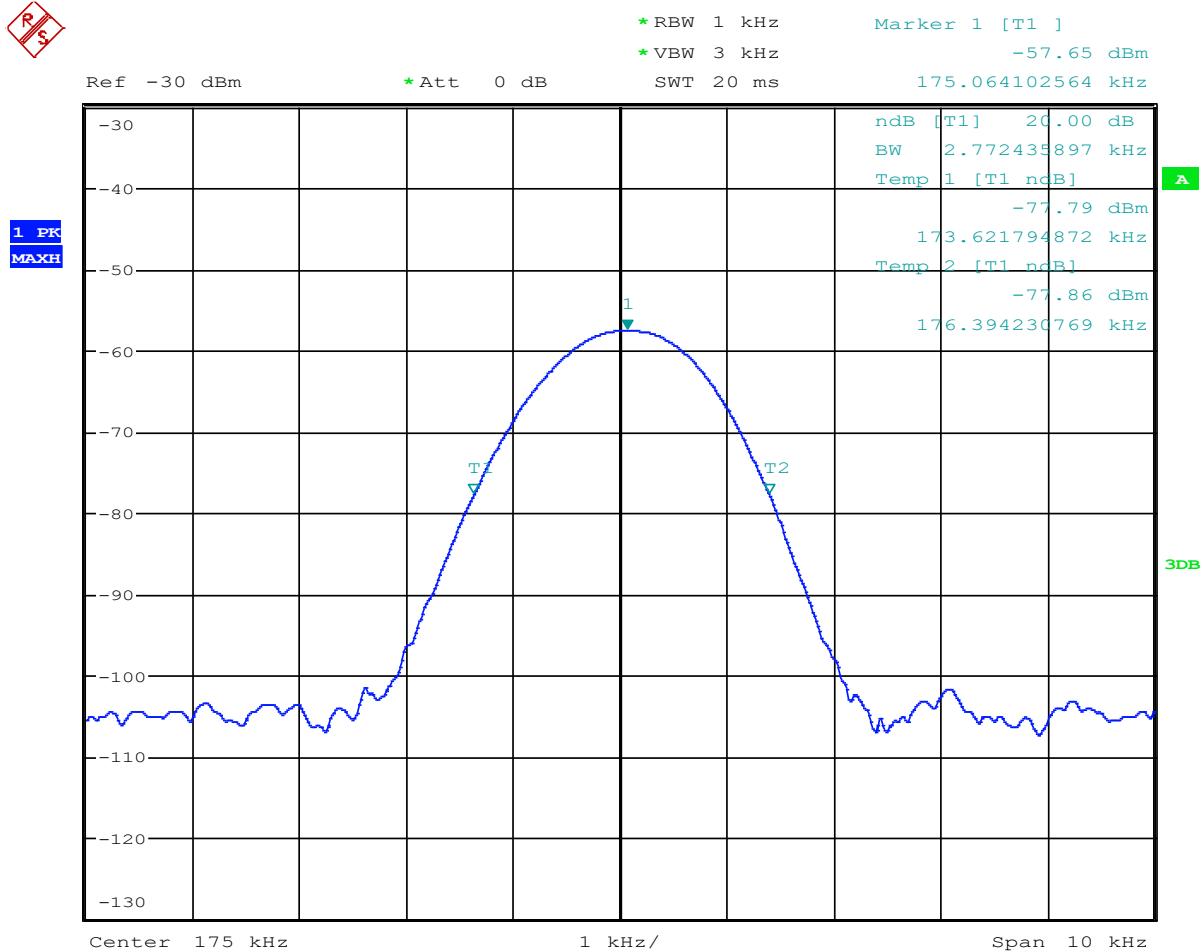
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20dB Bandwidth-1.5W



Date: 20.SEP.2024 17:33:44

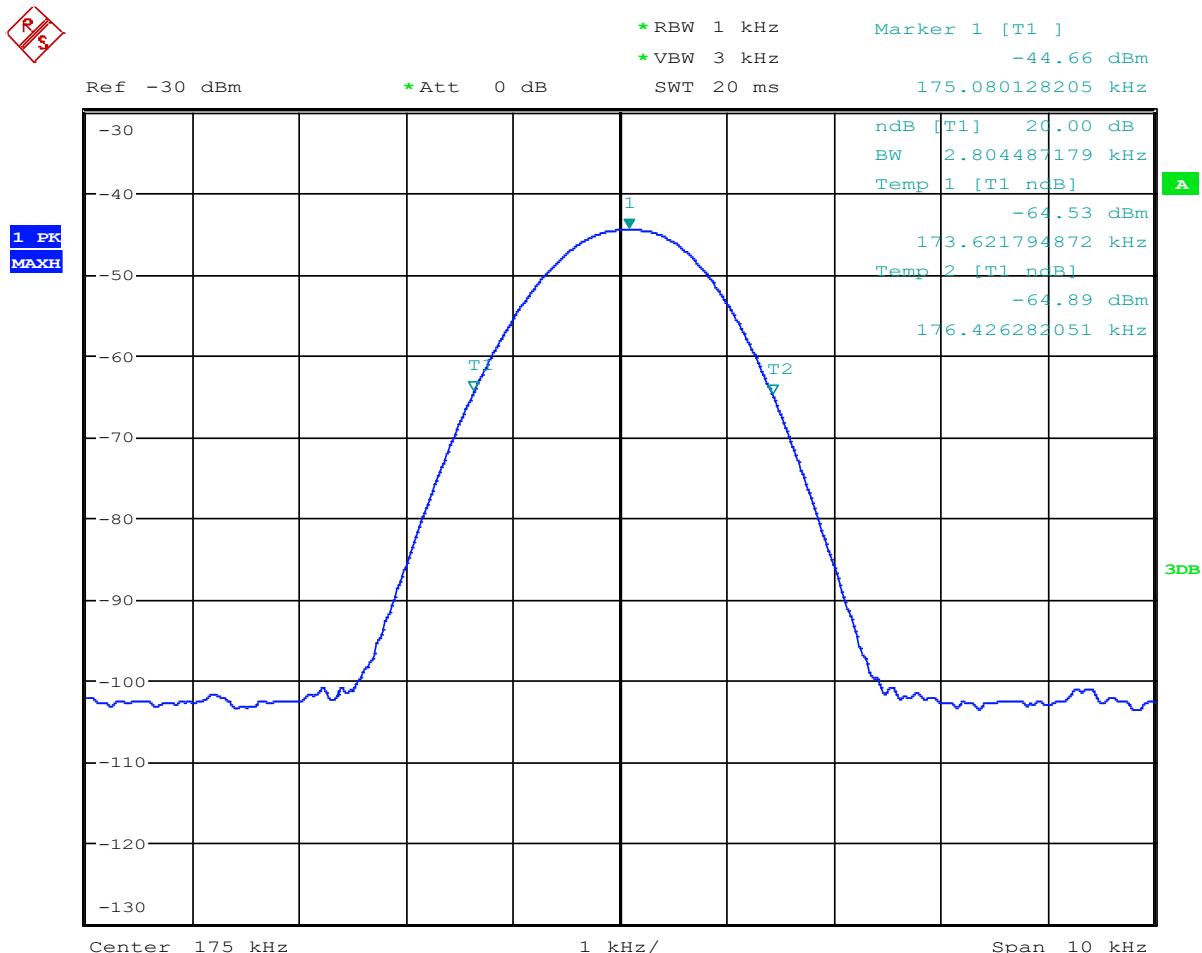
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20dB Bandwidth-1.5W+15W+3W



Date: 20.SEP.2024 17:31:43

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8.0 Antenna Requirement

8.1 Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

8.2 Antenna Connected constructions

The antennas are Inductive Loop Antennas. The antenna gain is 0dBi for each one. So it meets the requirement of 15.203

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9.0 FCC ID Label

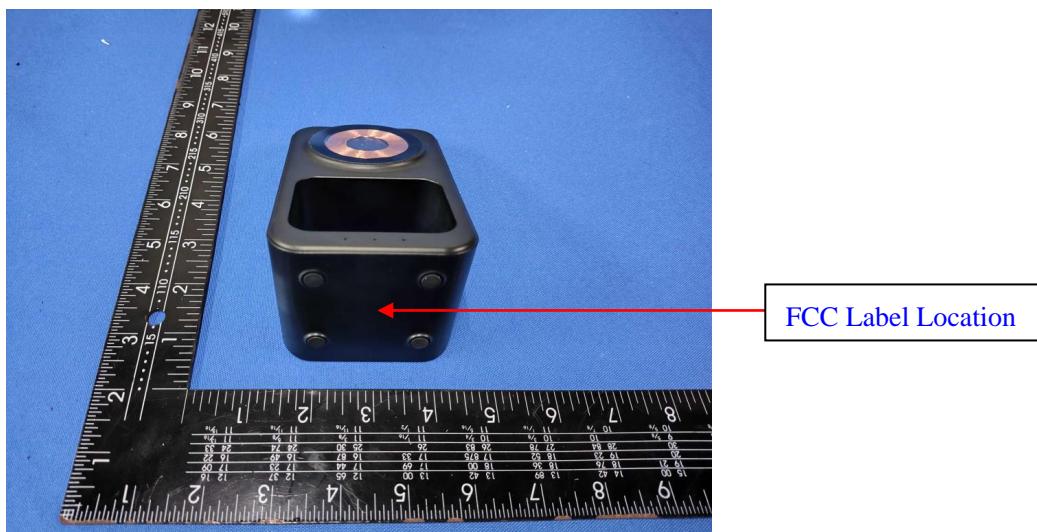
FCC ID: 2A4C5-AB0504

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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10.0 Photo of testing

10.1 Conducted test View



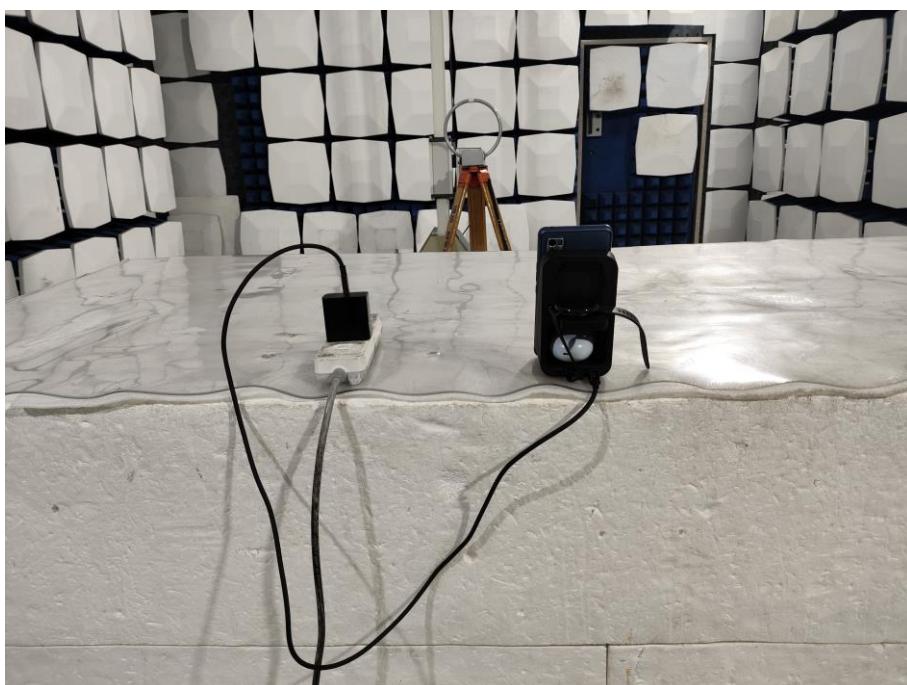
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10.2 Radiated emission test view



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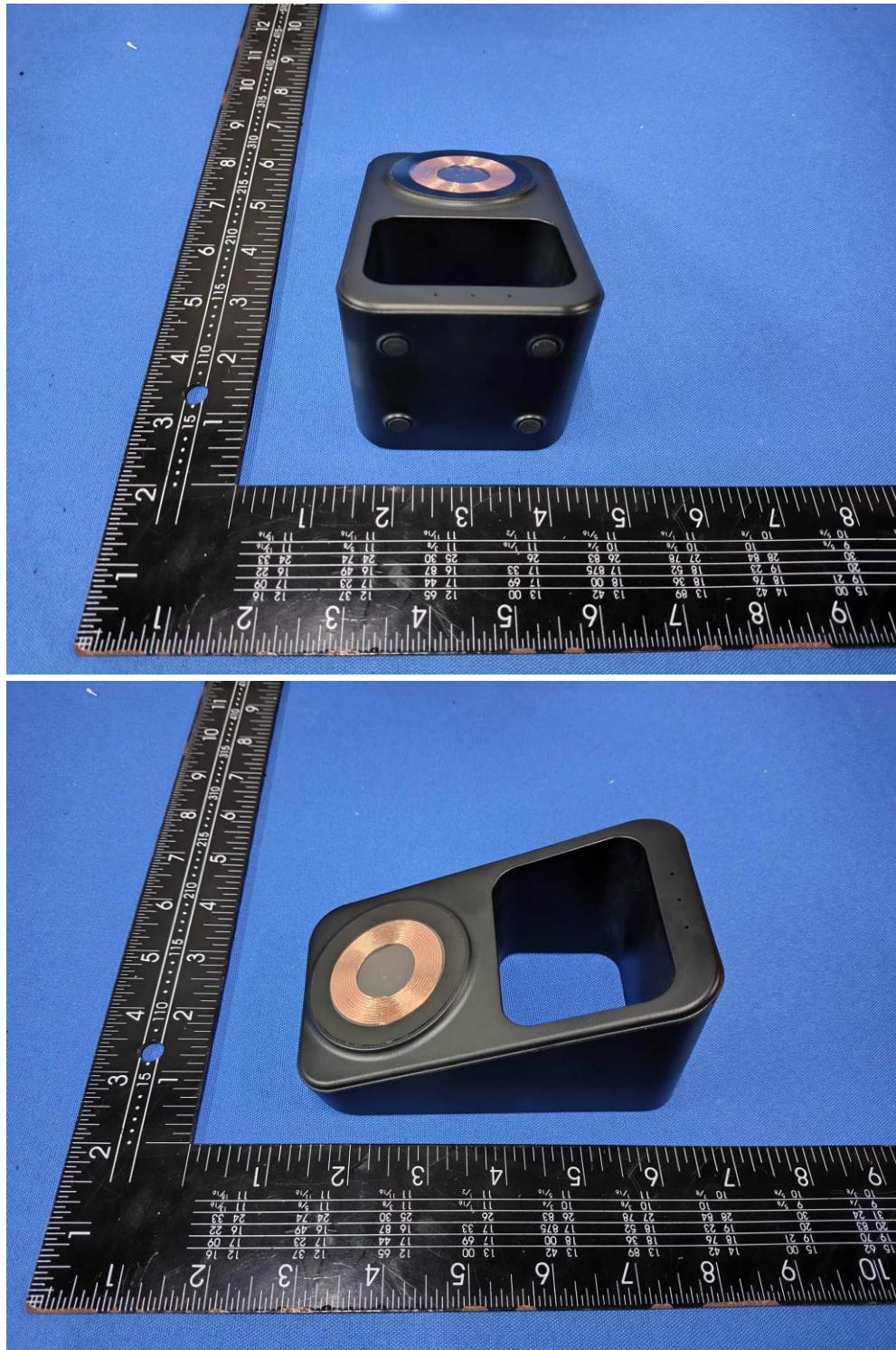
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Photographs – EUT

Outside View



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Outside View



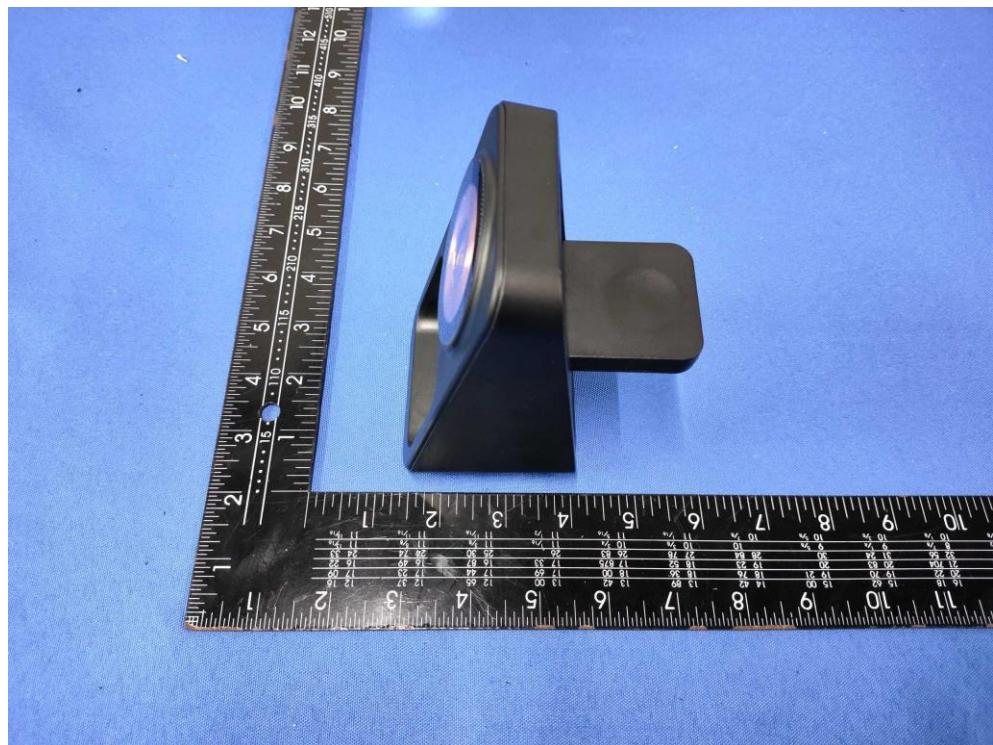
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Outside View



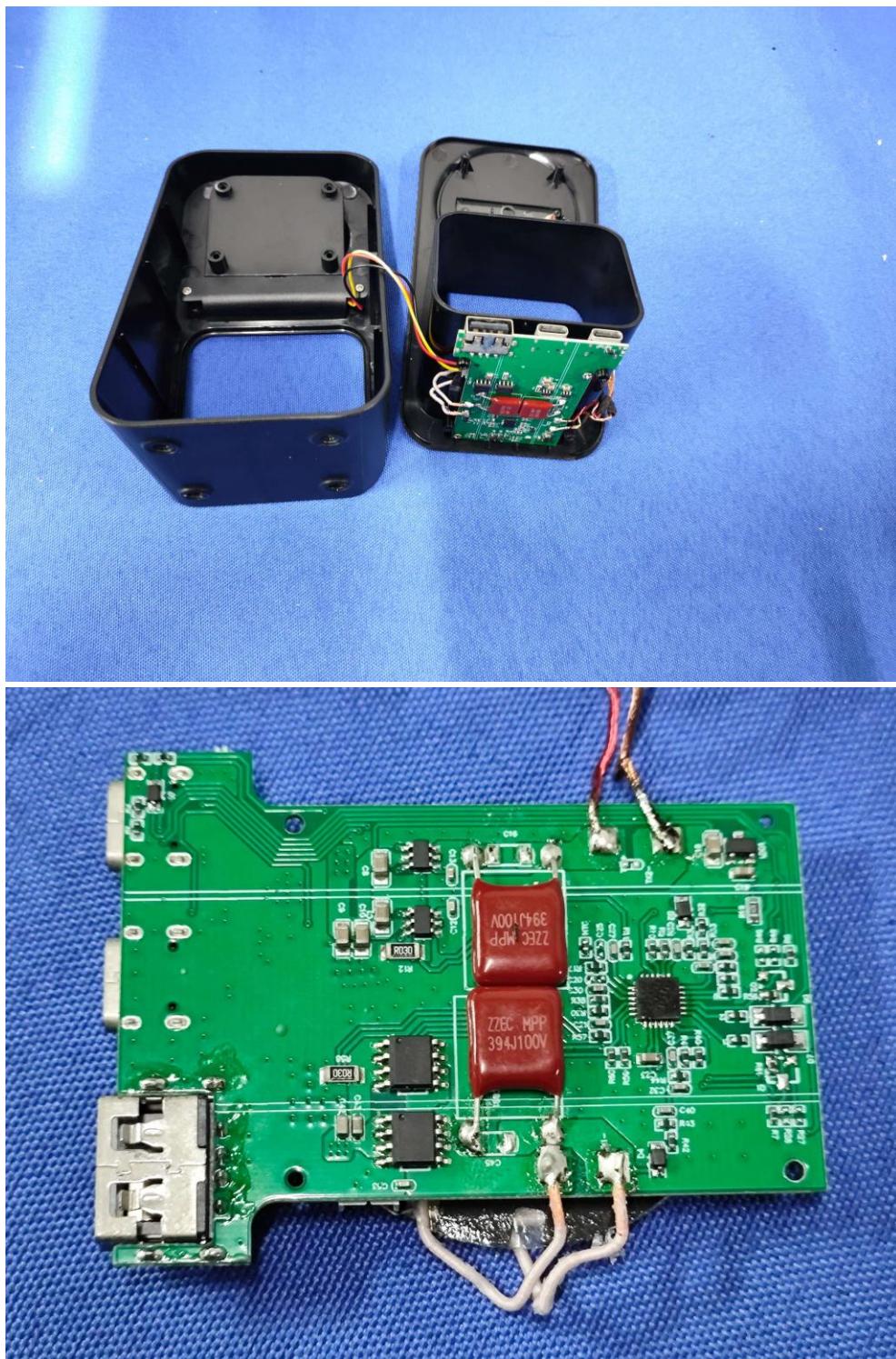
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Inside View



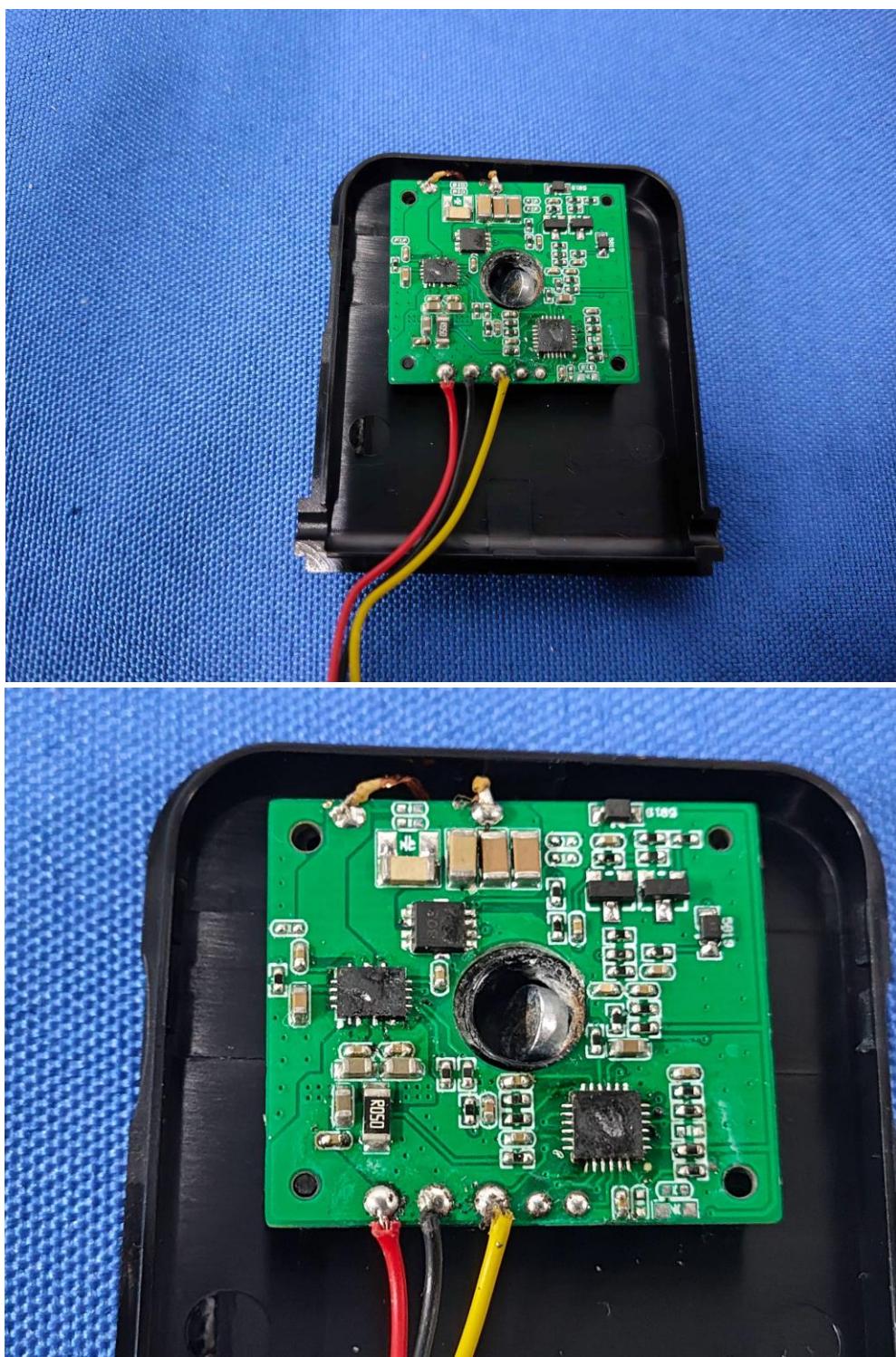
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Inside View



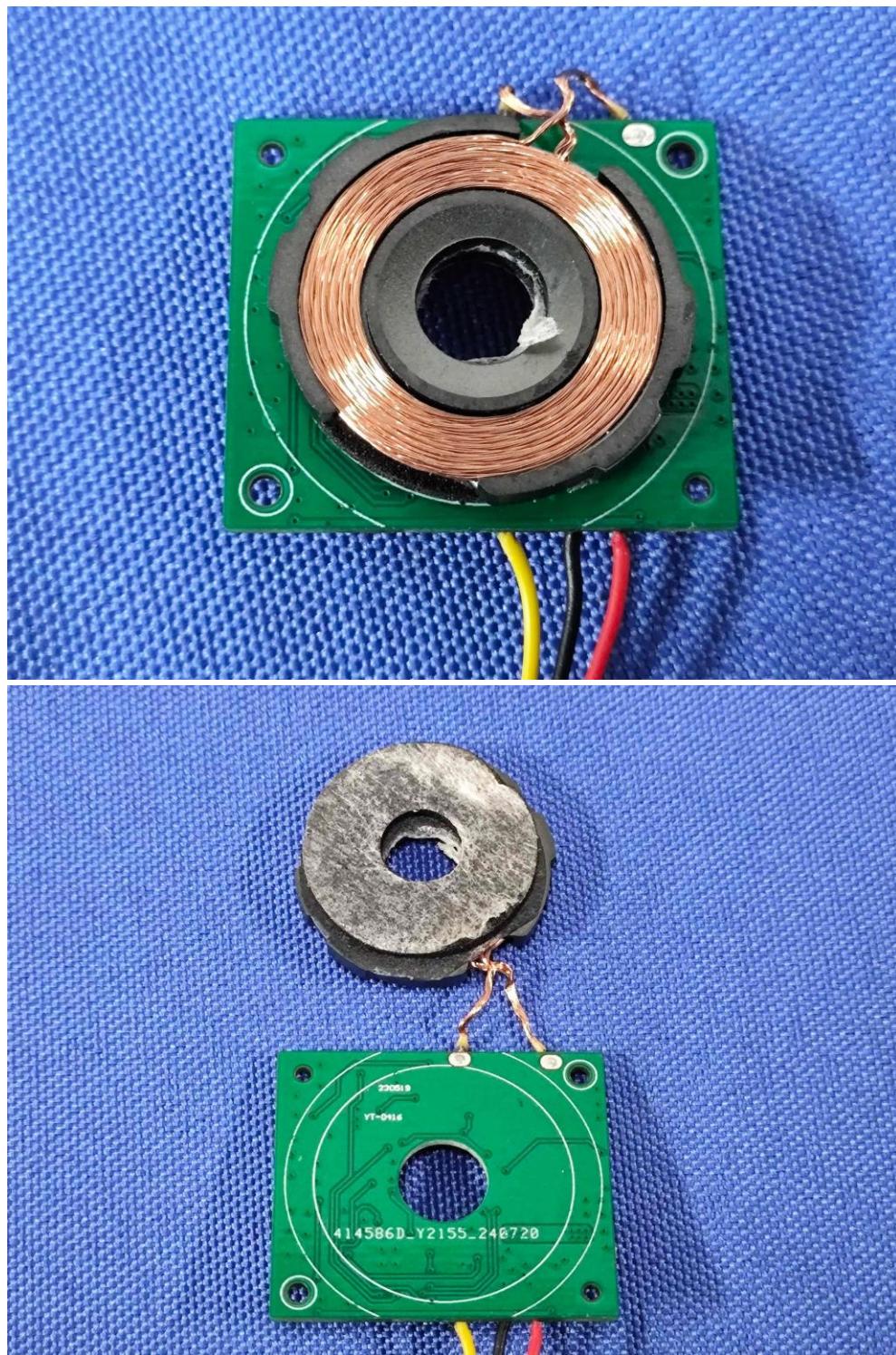
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Inside View



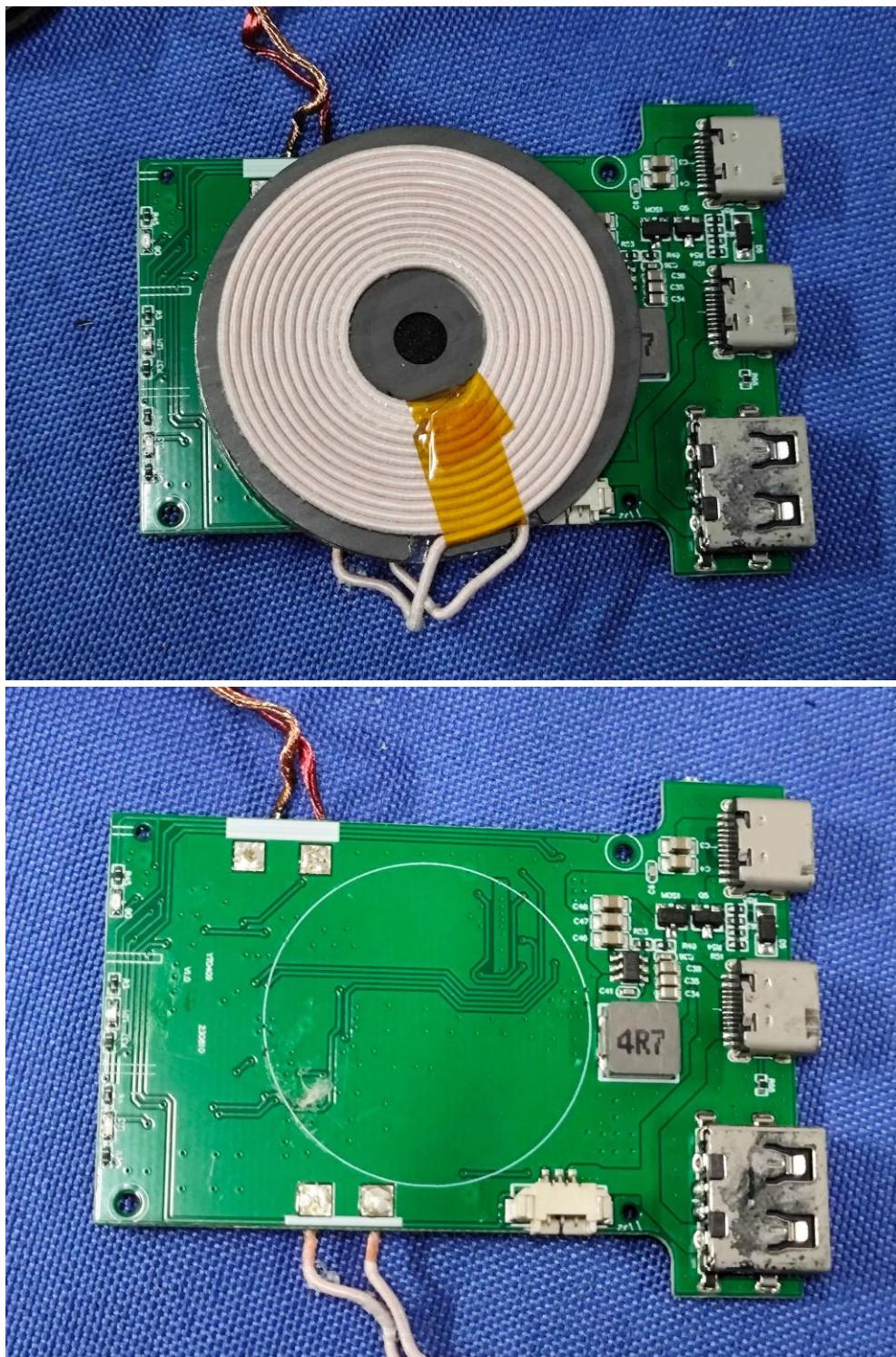
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Inside View



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Inside View



-End of the report-

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