



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15C TEST REPORT

For

LEADER ELECTRONICS CORP.

No.8 YUANSAN RD, KUNSHAN, JIANGSU China

FCC ID: 2AR5U- DOCK-150

Report Type: Original Report	Product Type: Wireless Charger
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Report Number: <u>RKSB190104001-00B</u>	
Report Date: <u>2019-07-26</u>	
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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY	3
MEASUREMENT UNCERTAINTY	4
TEST FACILITY	4
SYSTEM TEST CONFIGURATION	5
DESCRIPTION OF TEST CONFIGURATION	5
EQUIPMENT MODIFICATIONS	5
EUT EXERCISE SOFTWARE	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
EXTERNAL I/O CABLE.....	5
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
TEST EQUIPMENT LIST	8
FCC §1.1307& §1.1310 – RF EXPOSURE.....	9
APPLICABLE STANDARD	9
EUT SETUP	10
RESULT	10
TEST DATA	11
FCC §15.203 - ANTENNA REQUIREMENT.....	12
APPLICABLE STANDARD	12
ANTENNA CONNECTOR CONSTRUCTION	12
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	13
APPLICABLE STANDARD	13
EUT SETUP	13
EMI TEST RECEIVER SETUP.....	13
TEST PROCEDURE	13
CORRECTED FACTOR & OVER LIMIT CALCULATION.....	14
TEST RESULTS SUMMARY	14
TEST DATA	14
FCC §15.209 & §15.205 - SPURIOUS EMISSIONS	19
APPLICABLE STANDARD	19
EUT SETUP	19
EMI TEST RECEIVER SETUP.....	19
TEST PROCEDURE	20
CORRECTED AMPLITUDE & MARGIN CALCULATION	20
TEST RESULTS SUMMARY	20
TEST DATA	20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	LEADER ELECTRONICS CORP.
Tested Model	DOCK-150-B-BK,DOCK-950-B-QC-BK
Series Model	DOCK-150XXXXX,DOCK-950XXXXX
Model differences	USB charging ports
Product Type	Wireless Charger
Power Supply	DC 5V

**All measurement and test data in this report was gathered from production sample serial number: 20190104001. (Assigned by BACL, Kunshan). The EUT was received on 2019-01-04.*

Objective

This report is prepared on behalf of *LEADER ELECTRONICS CORP.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207 and 15.209 rules.

Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
Radiated emission	9kHz~30MHz	3.19dB
	30MHz~1GHz	6.11dB
Temperature		1.0°C
Humidity		6%

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user)

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

No Exercise Software was used.

Support Equipment List and Details

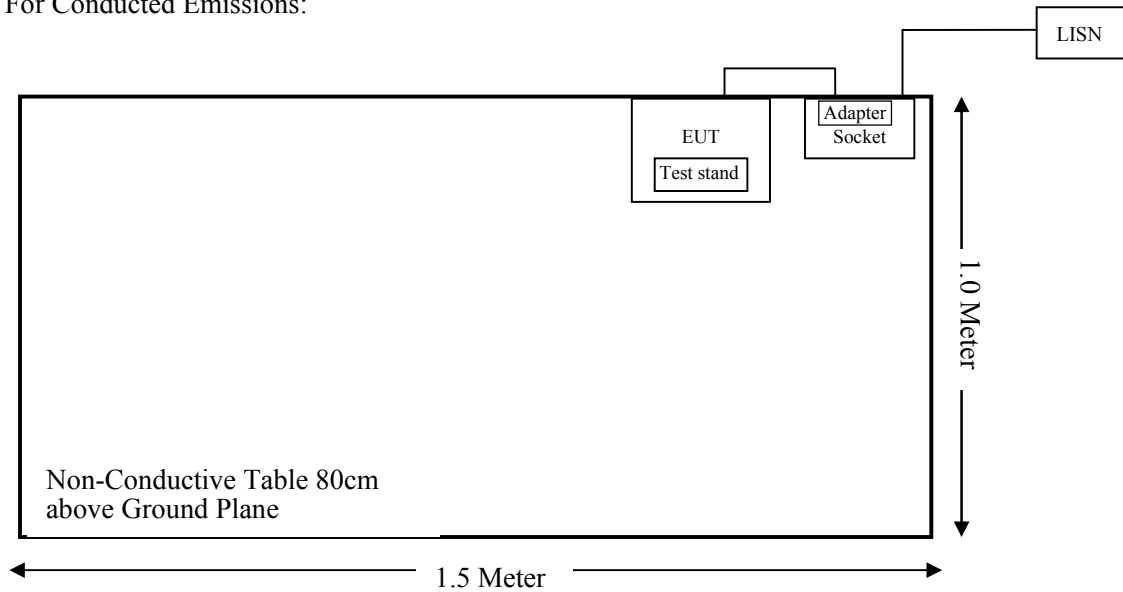
Manufacturer	Description	Model	Serial Number
LEADER ELECTRONICS CORP.	Adapter	P050W6000U	/
Eeson	Full function wireless charging aging test stand	/	/

External I/O Cable

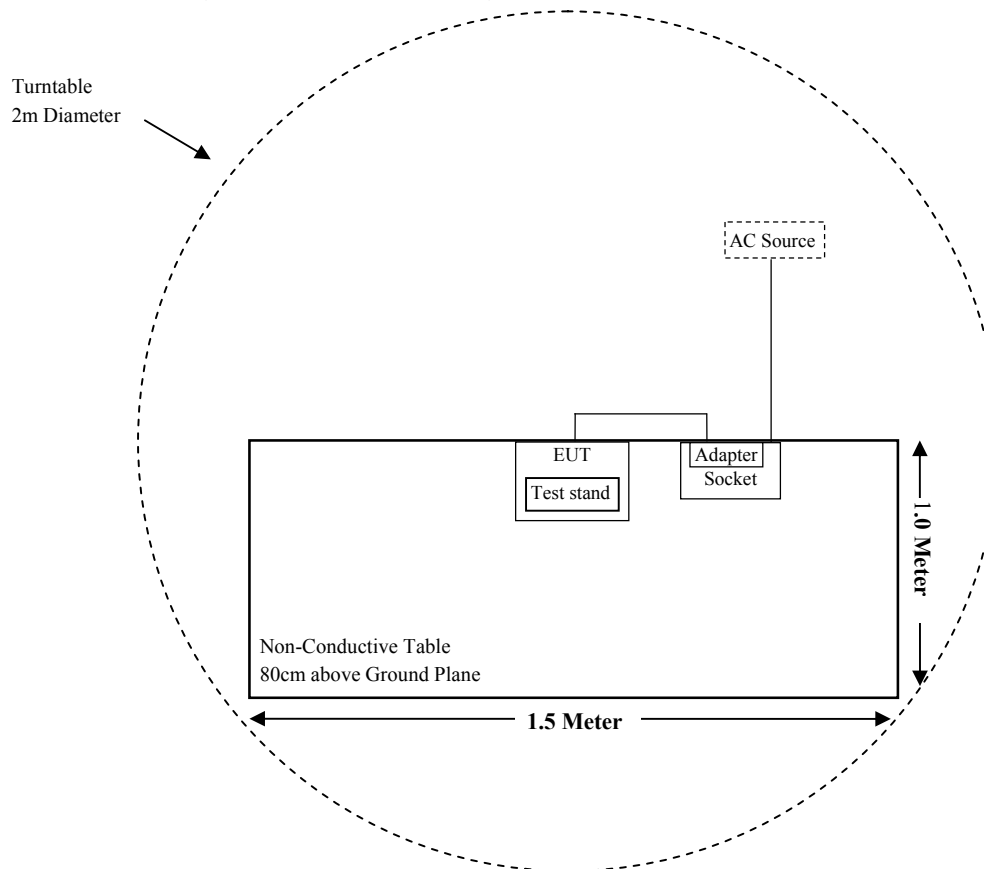
Cable Description	Length (m)	From Port	To
Power Cable	2.438	EUT	Adapter

Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions(Below & Above 30MHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 & §1.1310	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209	Spurious Emissions	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2018-11-30	2019-11-29
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrument	Pre-amplifier	310N	171205	2018-08-14	2019-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-27	2019-08-26
ETS-LINDGREN	PASSIVE LOOP	6512	108100	2019-04-25	2022-04-24
Sonoma Instrument	Pre-amplifier	310N	185700	2018-08-14	2019-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2019-07-11	2020-07-10
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2018-11-30	2019-11-29
Audix	Test Software	e3	V9	--	--
Narda	Attenuator/6dB	10690812-2	26850-6	2019-01-10	2020-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14
RF Exposure					
Narda	Exposure Level Tester	ELT-400	N-0229	2017-11-15	2019-11-15
Narda	B Field Probe	ELT Probe 100cm2	M-0666	2017-11-15	2019-11-15
Amplifier Research	Isotropic Field Probe	FP5000	301825	2018-11-22	2021-11-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307& §1.1310 – RF EXPOSURE

Applicable Standard

FCC §1.1307 & 1.1310

According to the item 5.2 of KDB 680106 D01 RF Exposure Wireless Charging Apps v03: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF evaluation.

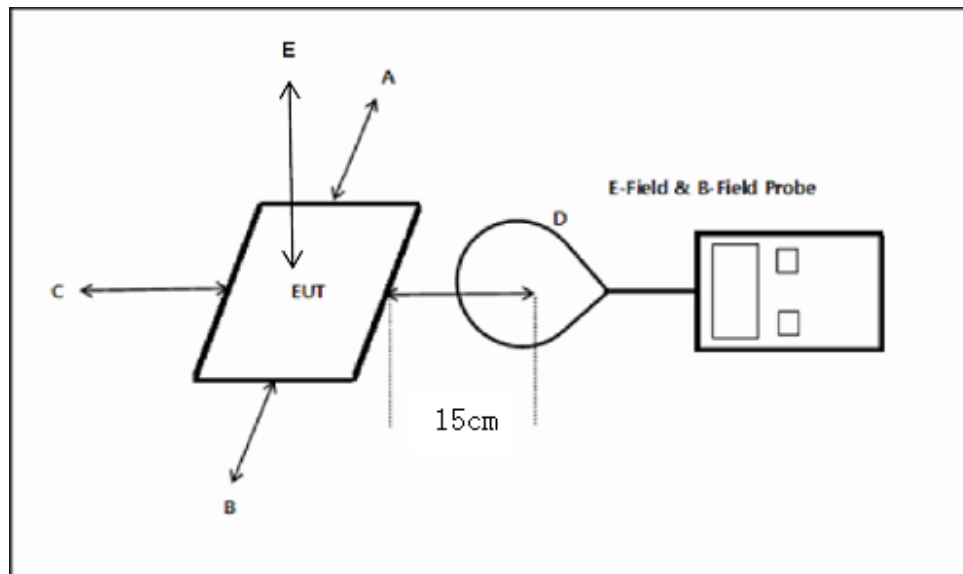
- a) Power transfer frequency is less than 1 MHz.
- b) Output power from each primary coil is less than or equal to 15 watts.
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- d) Client device is placed directly in contact with the transmitter.
- e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

EUT Setup



Result

a) Power transfer frequency is less than 1 MHz.

Yes, the device operates in the frequency 110 kHz-215 kHz.

b) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is $10W < 15W$.

c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

Yes, the transfer system including a charging system with only single primary coils is to detect and allow only between individual of coils.

d) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, this is a mobile device.

f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

The EUT H-field Strength levels at 15cm surrounding the device and 20 cm above the top surface are less than 50% the MPE limit.

Test Data**Environmental Conditions**

Temperature:	24.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

The testing was performed by Max Min on 2019-07-24.

Model name : DOCK-150-B-BK(worst case)

H-Filed Strength

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Limit Test (A/m)	50% Limit (A/m)
110-215	0.230	0.228	0.228	0.228	0.246	1.63	0.815

E-Filed Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Limit Test (V/m)	50% Limit (A/m)
110-215	2.6	2.5	2.3	2.4	2.9	614	307

Note:

1: According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03, Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614V/m and 1.63 A/m.

2: The distance for position A, B, C, D are 15cm, the distance for position E is 20cm.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connector Construction

The EUT has an integrated loop antenna arrangement, which the antenna gain is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

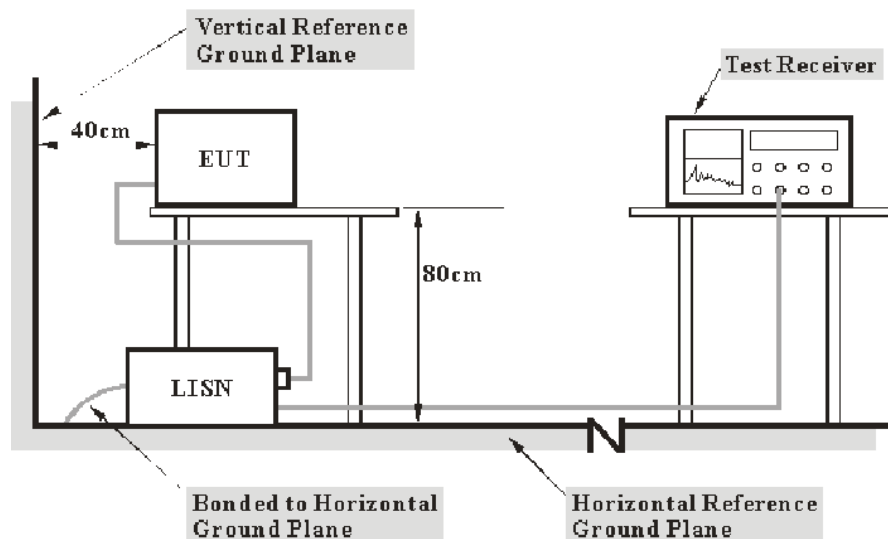
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Over Limit Calculation

The Corrected Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB above the limit. The equation for margin calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

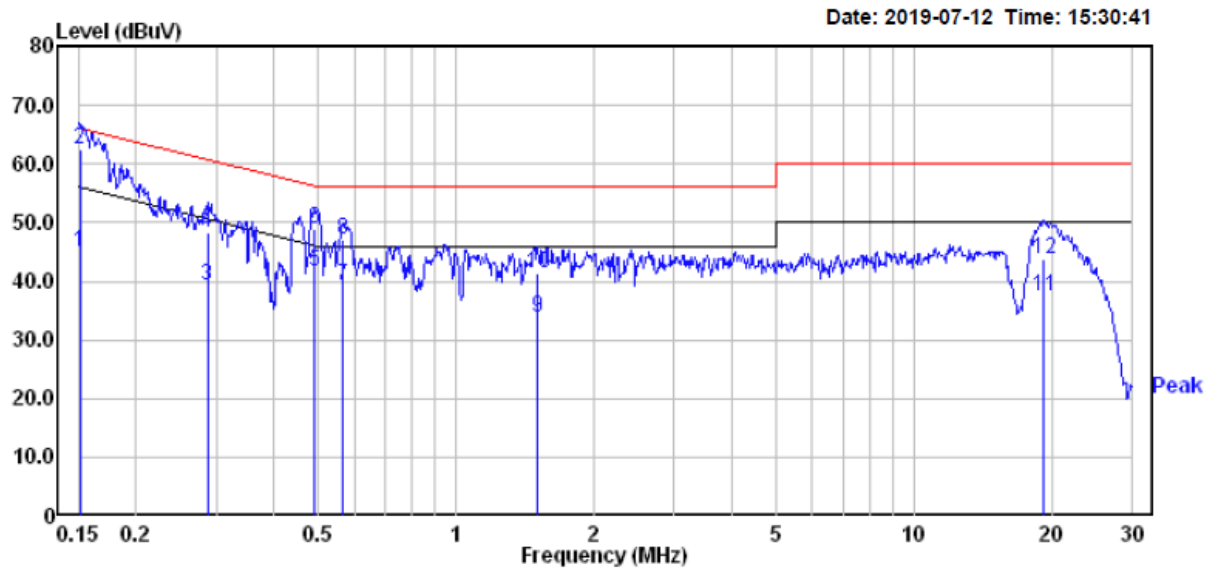
Test Data

Environmental Conditions

Temperature:	24.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

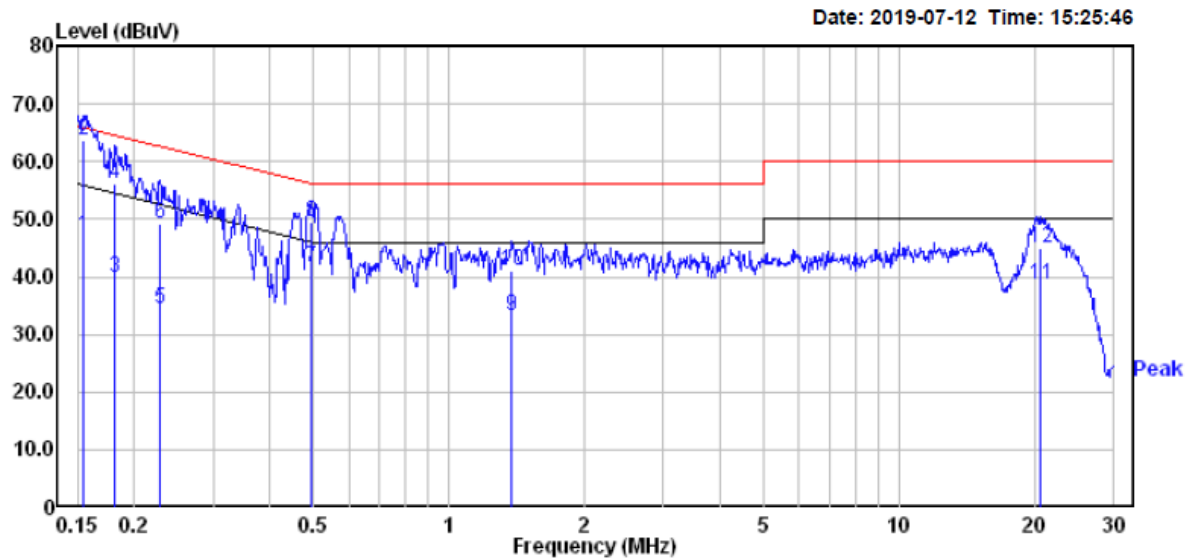
The testing was performed by Max Min on 2019-07-12.

EUT operation mode: charging and communication

Model: DOCK-150-B-BK**AC 120V/60 Hz, Line**

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBUV	dB	dBUV	dBUV	dB	
1	0.151	25.10	19.82	44.92	55.96	-11.04	Average
2	0.151	42.60	19.82	62.42	65.96	-3.54	QP
3	0.286	19.40	19.82	39.22	50.63	-11.41	Average
4	0.286	28.50	19.82	48.32	60.63	-12.31	QP
5	0.492	22.00	19.76	41.76	46.14	-4.38	Average
6	0.492	29.20	19.76	48.96	56.14	-7.18	QP
7	0.567	19.40	19.75	39.15	46.00	-6.85	Average
8	0.567	27.30	19.75	47.05	56.00	-8.95	QP
9	1.511	13.99	19.85	33.84	46.00	-12.16	Average
10	1.511	21.49	19.85	41.34	56.00	-14.66	QP
11	19.224	17.50	19.91	37.41	50.00	-12.59	Average
12	19.224	24.00	19.91	43.91	60.00	-16.09	QP

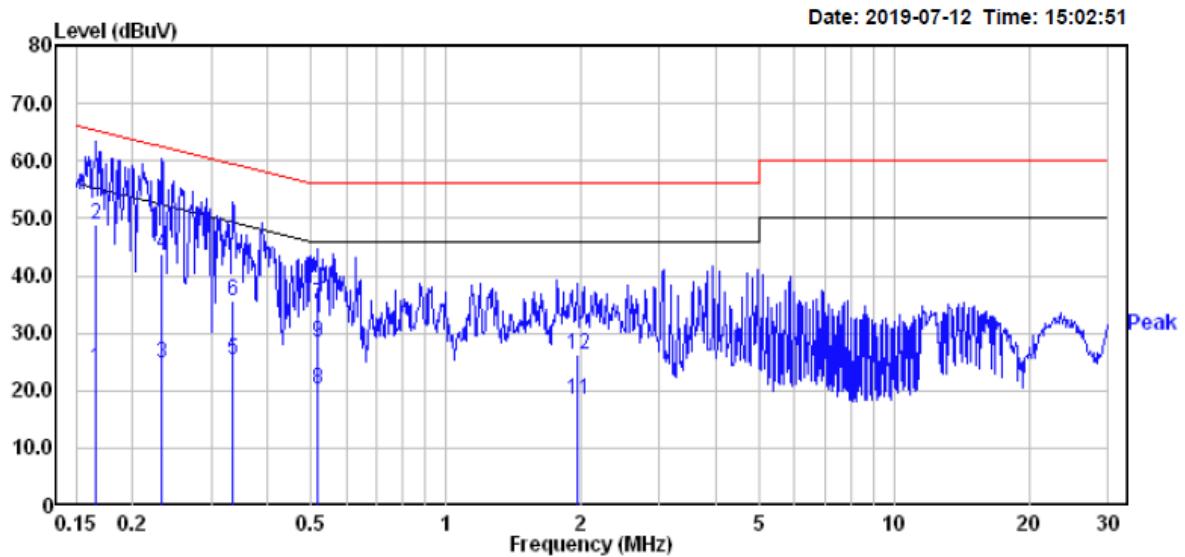
AC 120V/60 Hz, Neutral



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.154	27.30	19.82	47.12	55.78	-8.66	Average
2	0.154	43.80	19.82	63.62	65.78	-2.16	QP
3	0.182	19.90	19.83	39.73	54.42	-14.69	Average
4	0.182	36.20	19.83	56.03	64.42	-8.39	QP
5	0.228	14.60	19.82	34.42	52.52	-18.10	Average
6	0.228	29.40	19.82	49.22	62.52	-13.30	QP
7	0.494	21.90	19.76	41.66	46.10	-4.44	Average
8	0.494	29.90	19.76	49.66	56.10	-6.44	QP
9	1.381	13.30	19.83	33.13	46.00	-12.87	Average
10	1.381	21.10	19.83	40.93	56.00	-15.07	QP
11	20.594	18.80	19.92	38.72	50.00	-11.28	Average
12	20.594	25.20	19.92	45.12	60.00	-14.88	QP

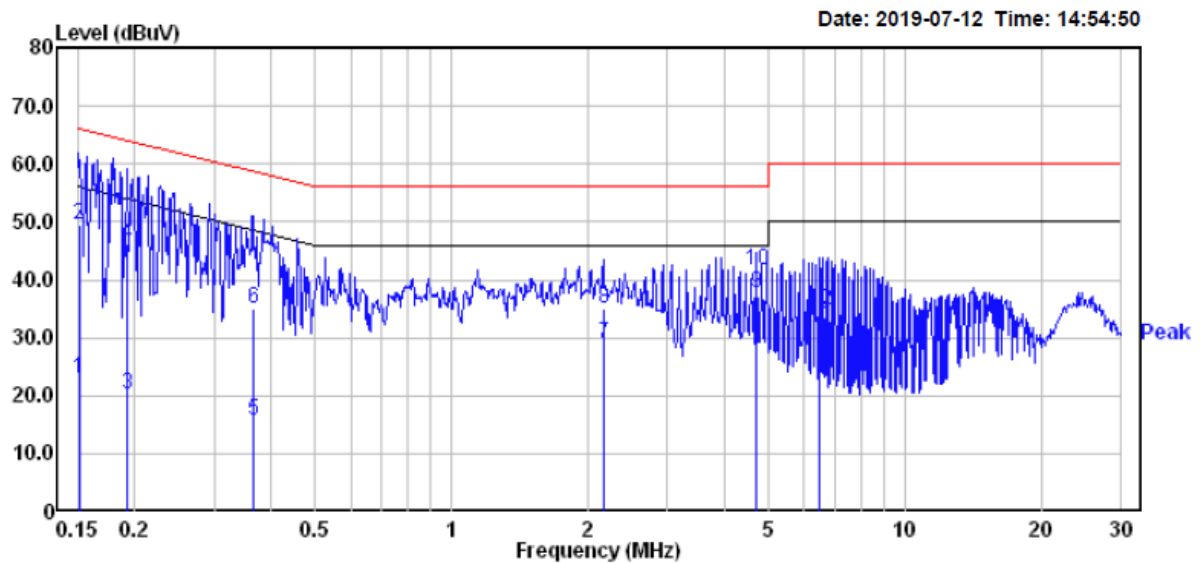
Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

Model: DOCK-950-B-QC-BK**AC 120V/60 Hz, Line**

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.166	4.00	19.83	23.83	55.16	-31.33 Average
2	0.166	29.00	19.83	48.83	65.16	-16.33 QP
3	0.233	4.80	19.82	24.62	52.35	-27.73 Average
4	0.233	23.90	19.82	43.72	62.35	-18.63 QP
5	0.336	5.39	19.82	25.21	49.31	-24.10 Average
6	0.336	15.79	19.82	35.61	59.31	-23.70 QP
7	0.516	15.20	19.76	34.96	46.00	-11.04 Average
8	0.516	0.40	19.76	20.16	46.00	-25.84 Average
9	0.516	8.60	19.76	28.36	56.00	-27.64 QP
10	0.516	17.90	19.76	37.66	56.00	-18.34 QP
11	1.970	-1.30	19.83	18.53	46.00	-27.47 Average
12	1.970	6.40	19.83	26.23	56.00	-29.77 QP

AC 120V/60 Hz, Neutral



	Freq	Read		Limit	Over	
	MHz	Level	Factor	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.151	3.10	19.82	22.92	55.96	-33.04 Average
2	0.151	29.60	19.82	49.42	65.96	-16.54 QP
3	0.192	0.40	19.82	20.22	53.93	-33.71 Average
4	0.192	26.30	19.82	46.12	63.93	-17.81 QP
5	0.365	-4.10	19.79	15.69	48.61	-32.92 Average
6	0.365	15.20	19.79	34.99	58.61	-23.62 QP
7	2.167	9.30	19.70	29.00	46.00	-17.00 Average
8	2.167	15.41	19.70	35.11	56.00	-20.89 QP
9	4.721	18.29	19.49	37.78	46.00	-8.22 Average
10	4.721	22.29	19.49	41.78	56.00	-14.22 QP
11	6.488	12.60	19.51	32.11	50.00	-17.89 Average
12	6.488	15.30	19.51	34.81	60.00	-25.19 QP

Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

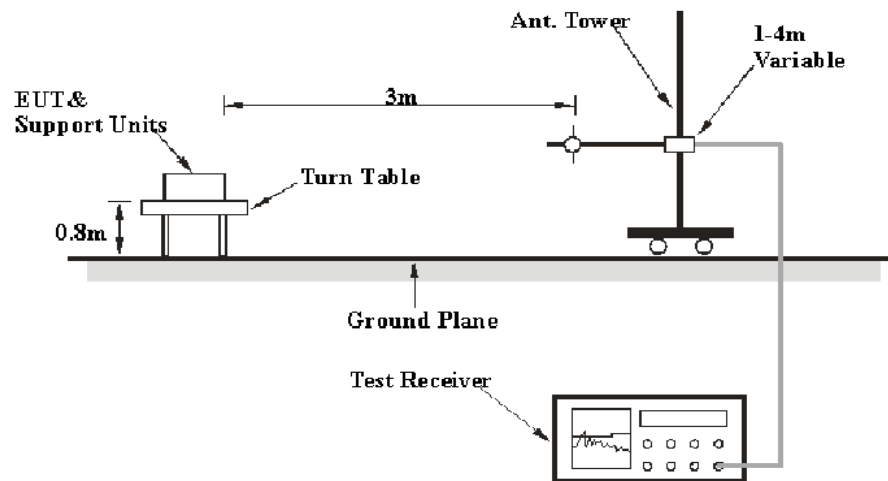
2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

FCC §15.209 & §15.205 - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.209; §15.205;

EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	QP
150 kHz – 30MHz	9kHz	30kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dB μ V/m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205 and 15.209.

Test Data

Environmental Conditions

Temperature:	24.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

The testing was performed by Max Min on 2019-07-13.

EUT operation mode: charging and communication

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in X-axis of orientation** was recorded)

•xmw 9 kHz
 •vbw 30 kHz
 Srv 740 ms

marker 4 [x1]
 32.23 dBmV
 25.880700000 MHz

marker 1 [x1]
 88.88 dBmV
 150.000000000 kHz

marker 2 [x1]
 46.88 dBmV
 4.269300000 MHz

marker 3 [x1]
 27.77 dBmV
 13.642200000 MHz

Start 150 kHz
 2.965 MHz/
 Stop 30 MHz

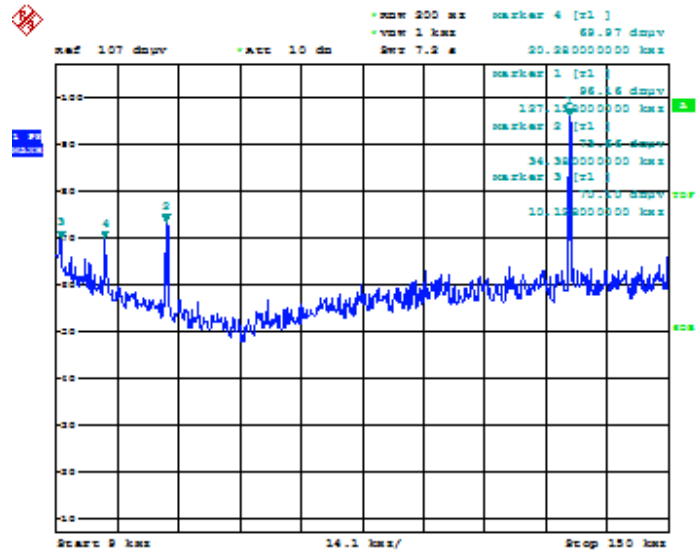
Page 21 of 26

9kHz-30MHz:

Model: DOCK-950-B-QC-BK

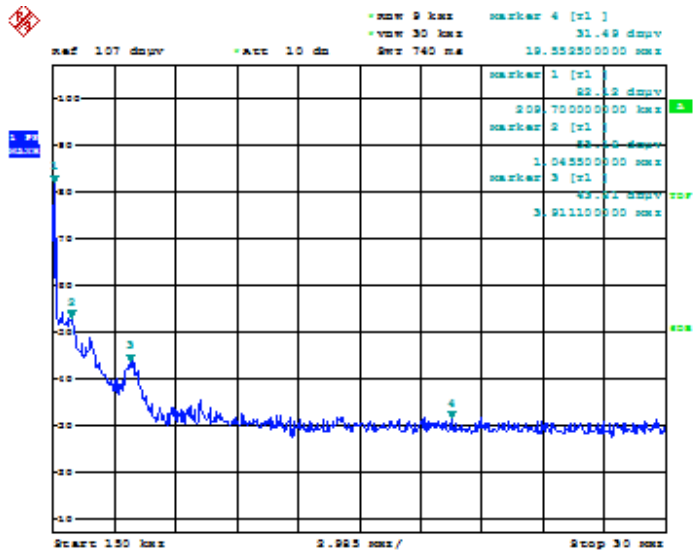
(Pre-scan in the X,Y and Z axes of orientation, the worst case in X-axis of orientation was recorded)

9kHz-150kHz (PK)



Date: 13.JUL.2019 19:19:42

150kHz-30MHz (PK)



Date: 13.JUL.2019 19:23:53

9kHz-490kHz:

Model: DOCK-150-B-BK

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @300m	Margin (dB)
10.13	71.63	PK	56.82	127.49	47.49	55.86
20.28	70.09	PK	49.92	121.46	41.46	51.37
34.38	74.89	PK	46.06	116.88	36.88	41.99
148.03	88.50	PK	50.40	104.20	24.20	15.70
150.00	88.59	PK	50.90	104.08	24.08	15.49
300.00	78.69	PK	28.60	98.06	18.06	19.37

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

490kHz-30MHz:

Model: DOCK-150-B-BK

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @30m	Margin (dB)
4.27	44.53	PK	16.11	69.54	29.54	25.01
13.64	37.27	PK	6.11	69.54	29.54	32.27
25.88	32.23	PK	5.41	69.54	29.54	37.31

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

9kHz-490kHz:

Model: DOCK-950-B-QC-BK

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @300m	Margin (dB)
10.13	70.10	PK	56.82	127.49	47.49	57.39
20.28	69.97	PK	49.92	121.46	41.46	51.49
34.38	73.56	PK	46.06	116.88	36.88	43.32
127.16	96.16	PK	50.40	105.52	25.52	9.36
209.70	82.12	PK	50.90	101.17	21.17	19.05
300.00	75.46	PK	28.60	98.06	18.06	22.60

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

490kHz-30MHz:

Model: DOCK-950-B-QC-BK

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @30m	Margin (dB)
1.05	53.18	PK	17.35	67.18	27.18	14.00
3.91	43.81	PK	6.38	69.54	29.54	25.73
19.55	31.49	PK	5.64	69.54	29.54	38.05

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

Note:

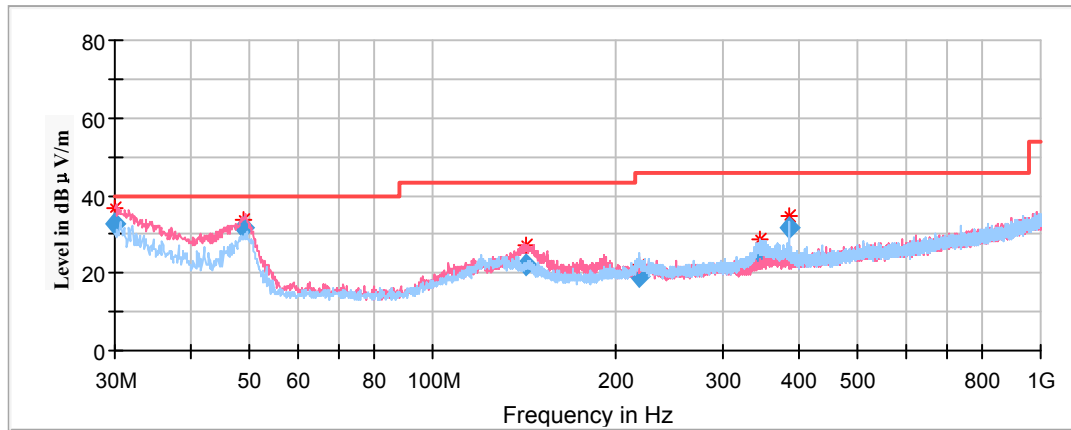
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

30MHz-1GHz:**Model: DOCK-150-B-BK**

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in X-axis of orientation** was recorded)



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi Peak (dBμV/m)	Height (cm)	Polar (H/V)				
30.037490	32.91	100.0	V	227.0	-4.0	40.00	7.09
48.951700	31.74	100.0	V	78.0	-16.8	40.00	8.26
142.462900	21.99	100.0	V	102.0	-12.0	43.50	21.51
219.180150	18.87	200.0	H	46.0	-12.2	46.00	27.13
345.216250	23.92	100.0	H	0.0	-9.5	46.00	22.08
384.861500	31.68	100.0	H	41.0	-8.4	46.00	14.32

Note:

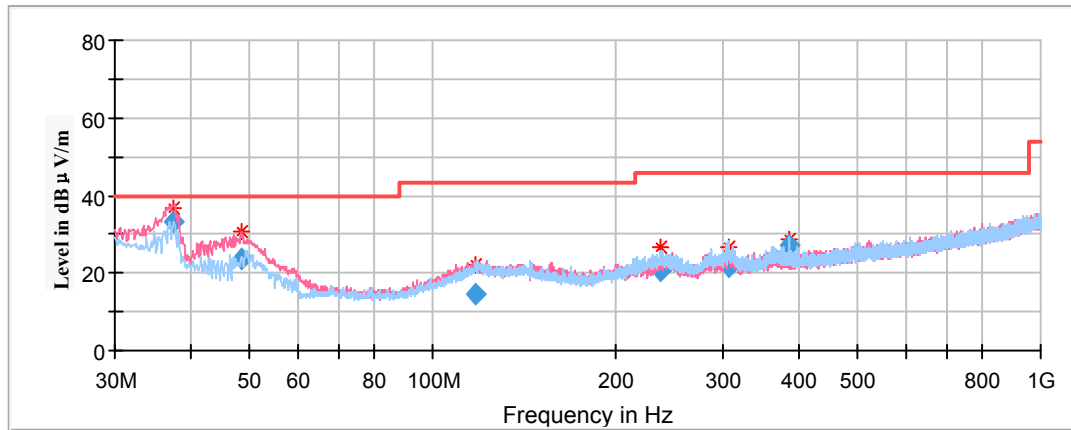
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

30MHz-1GHz:**Model: DOCK-950-B-QC-BK**

(Pre-scan in the X,Y and Z axes of orientation, the worst case in X-axis of orientation was recorded)



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi Peak (dBμV/m)	Height (cm)	Polar (H/V)				
37.458450	33.27	100.0	V	217.0	-9.0	40.00	6.73
48.308450	23.50	100.0	V	72.0	-16.4	40.00	16.50
117.702900	14.73	200.0	H	0.0	-11.6	43.50	28.77
237.840550	20.73	200.0	H	173.0	-12.1	46.00	25.27
306.792850	21.59	100.0	H	309.0	-10.4	46.00	24.41
384.825200	27.35	100.0	H	45.0	-8.4	46.00	18.65

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

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