

# FCC Radio Test Report

## FCC ID: 2AZ92-MZF151617

### The report concerns: Original Grant

Report Reference No.....: 22EFSS02033 01131

Date Sample(s) Received.....: 2022-02-17

Date of Tested.....: From 2022-02-17 to 2022-02-27

Date of issue.....: 2022-02-27

Testing Laboratory.....: DongGuanShuoXin Electronic Technology Co., Ltd.  
Zone A, 1F, No. 6, XinGang Road YuanGang Street,  
Address.....: XinAn District, ChangAn Town, DongGuan City,  
GuangDong, China

Applicant's name.....: ShenZhen MaiZhan Technology Co.,Ltd  
Room801, Building H, Chuangxin Yungu, No. 48, PaoTai  
Address.....: Road, LiSongLang No.1 Industrial Zone,  
GongMing Street, GuangMing District, ShenZhen

Manufacturer.....: ShenZhen MaiZhan Technology Co.,Ltd

Equipment.....: Wireless Charge Dock

Trade Mark.....: N/A

Model.....: MZF15,MZF16,MZF17,MZF16A,MZF16B,MZF16C,MZF1  
6D,MZF16E

Ratings.....: I/P: DC12V ---2A/9V ---2A/5V ---3A  
O/P: 15W/10W/7.5W/5W+5W/3W+5V/1A

Test Engineer:

Blue Qiu

Responsible Engineer :

Smile Wang

Authorized Signatory:

King Wang

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## 1. TEST REPORT DECLARE

Applicant	ShenZhen MaiZhan Technology Co.,Ltd
Address	MZF15,MZF16,MZF17,MZF16A,MZF16B,MZF16C,MZF16D,MZF16E
Manufacturer	Same as applicant
Address	Same as applicant
Factory	Same as applicant
Address	Same as applicant
Equipment Name	Wireless Charge Dock
Model No.	MZF15,MZF16,MZF17,MZF16A,MZF16B,MZF16C,MZF16D,MZF16E
Trade Mark	N/A
Standard	FCC Part15, Subpart C

### We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

## 2. SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s) Section		Test Item	Judgment	Remark
FCC	ISED			
15.207	-	AC Power Line Conducted Emissions	PASS	-----
15.209(a)	-	Radiated Emissions	PASS	-----
15.203	-	Antenna Requirement	PASS	Note(2)
15.215	-	20dB Bandwidth	PASS	

**Note:**

- (1) "N/A" denotes test is not applicable to this device.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Uncertainty for Radiation Emission test (200MHz-1GHz)	6.10 dB (Polarize: V)
	5.08 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: V)
	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: V)
	5.26 dB (Polarize: H)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: V)
	5.06 dB (Polarize: H)
Uncertainty for radio frequency	$\pm 0.048$ kHz
Uncertainty for conducted RF Power	$\pm 0.32$ dB

**Note:**

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Charge Dock	
Brand Name	N/A	
Test Model	MZF15,MZF16,MZF17,MZF16A,MZF16B,MZF16C,MZF16D,MZF16E	
Series Model	/	
Model Difference(s)	/	
Hardware Version	V1.0	
Software Version	V1.0	
PowerSource	DC12V ---2A/9V ---2A/5V ---3A	
Operation Frequency	110kHz-205kHz	
Modulation Technology	FSK	
Antenna Information	Antenna Type:Coil	Maximum Peak Gain: 0dBi

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### 3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	Charging

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

<b>AC power line conducted emissions test</b>	
Final Test Mode	Description
Mode 1	Charging

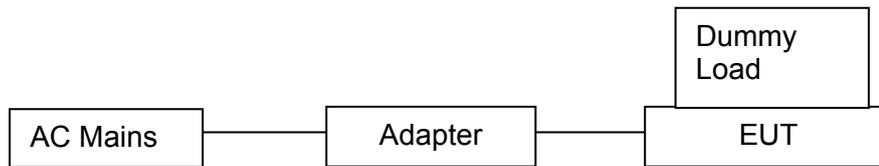
<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 1	Charging

<b>Conducted test</b>	
Final Test Mode	Description
Mode 1	Charging

Note:

(1) The measurements are performed at the high, middle, low available channels.

**3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



**3.4 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.
AE1	iphone 11	Apple	/	/
AE2	iwatch	Apple	/	/
AE3	Galaxy buds live	SAMSUNG	/	/

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	0.8m

**3.5 TEST ENVIRONMENT CONDITIONS**

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	25°C	53%	DC 9V
Radiated Emissions-9K-30MHz	25°C	60%	DC 9V
Radiated Emissions-30 MHz to 1GHz	24°C	68%	DC 9V
Bandwidth	24.8°C	40.9%	DC 9V

#### 4.AC POWER LINE CONDUCTED EMISSIONS TEST

##### 4.1LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

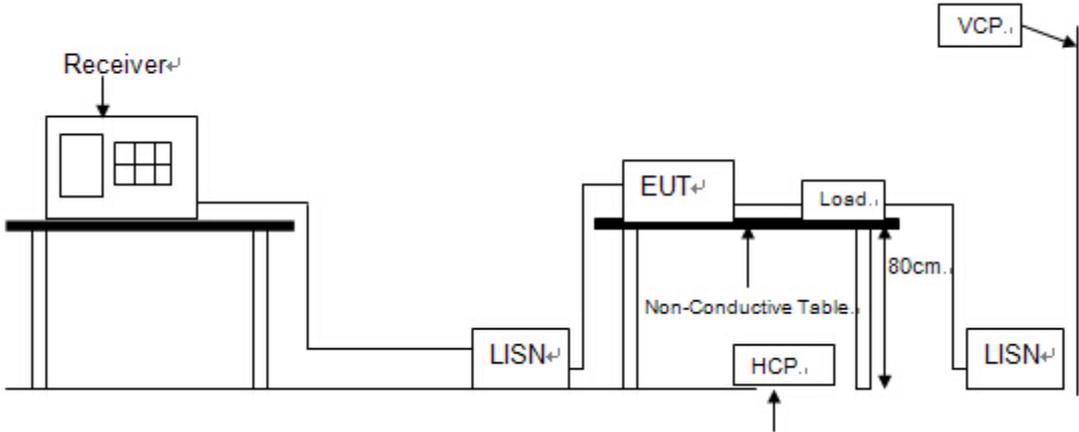
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

##### 4.2TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.

##### 4.3MEASUREMENT INSTRUMENTS LIST

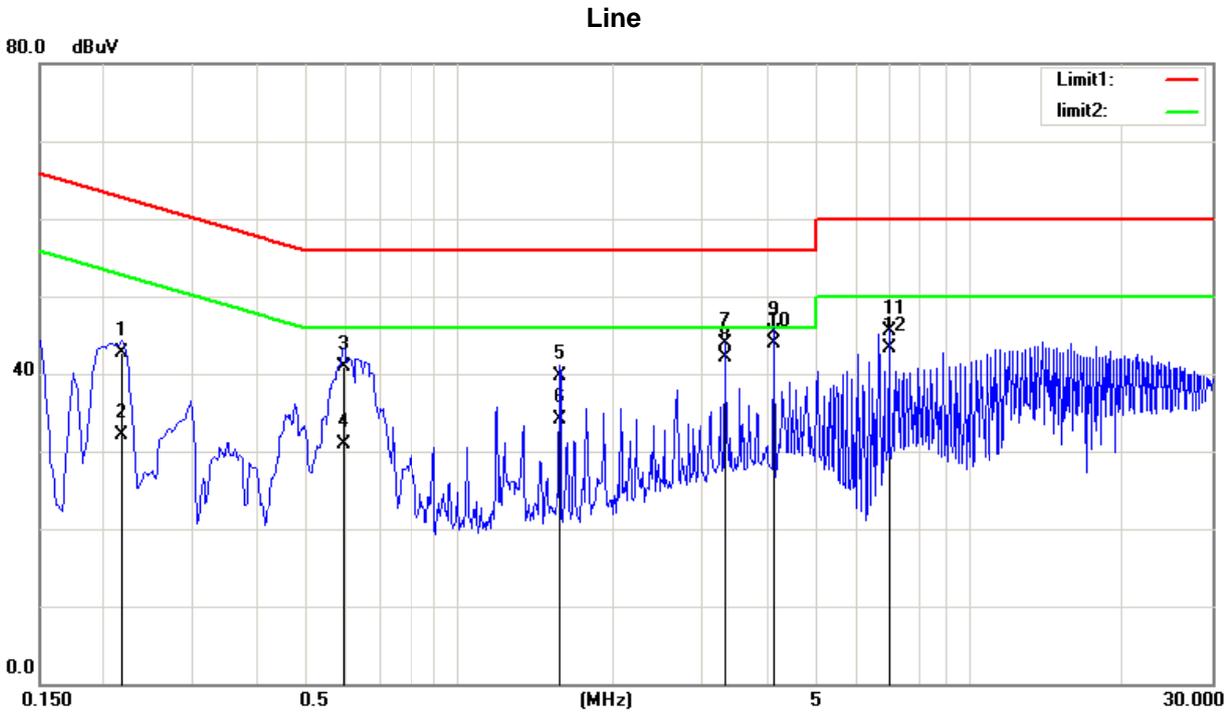
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Pulse Limiter	MTS-systemtechnik	MTS-IMP-136	261115-010-0024	12/19/2022
2	EMI Test Receiver	R&S	ESCI	101308	12/17/2022
3	LISN	AFJ	LS16	16011103219	06/09/2022
4	LISN	Schwarzbeck	NSLK 8127	8127-432	12/17/2022
5	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

**4.4 TEST SETUP****4.5 EUT OPERATING CONDITIONS**

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

**4.6 TEST RESULTS**

Test Mode: Charging

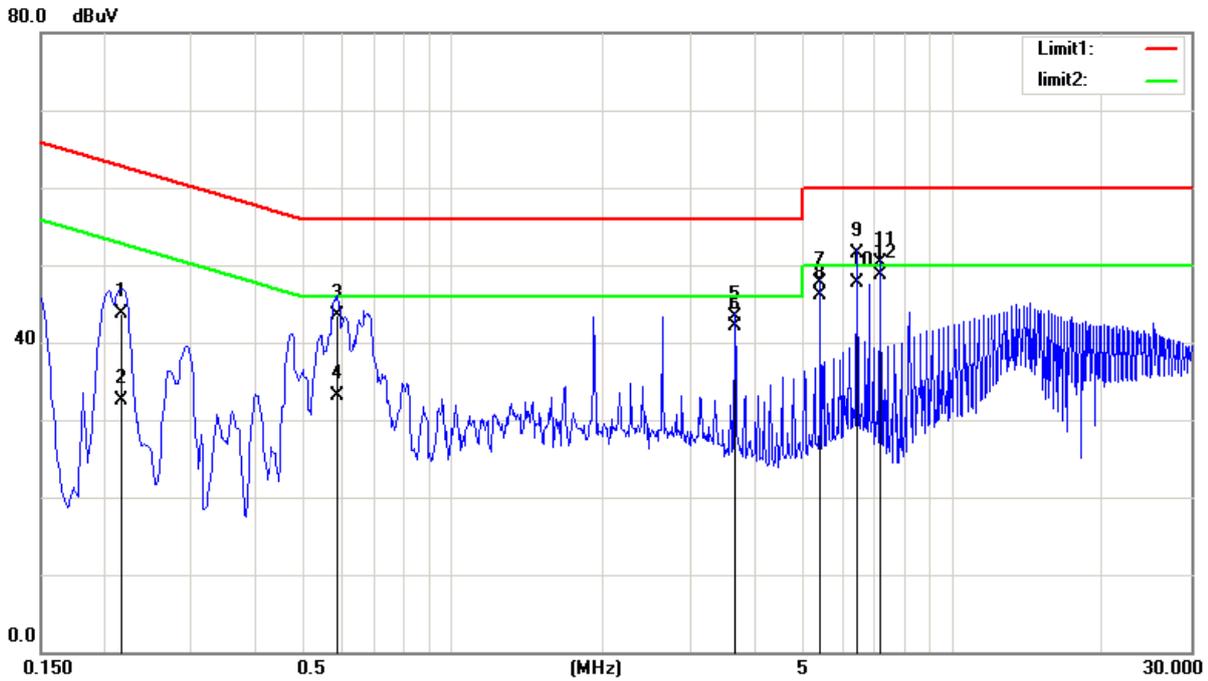


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2179	31.68	11.07	42.75	62.89	-20.14	QP
2	0.2179	20.98	11.07	32.05	52.89	-20.84	AVG
3	0.5939	30.54	10.27	40.81	56.00	-15.19	QP
4	0.5939	20.58	10.27	30.85	46.00	-15.15	AVG
5	1.5740	29.45	10.22	39.67	56.00	-16.33	QP
6	1.5740	23.83	10.22	34.05	46.00	-11.95	AVG
7	3.3260	33.66	10.23	43.89	56.00	-12.11	QP
8	3.3260	31.78	10.23	42.01	46.00	-3.99	AVG
9	4.1539	35.09	10.22	45.31	56.00	-10.69	QP
10	4.1539	33.62	10.22	43.84	46.00	-2.16	AVG
11	6.9579	35.34	10.20	45.54	60.00	-14.46	QP
12	6.9579	33.09	10.20	43.29	50.00	-6.71	AVG

Remarks:  
 (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: Charging

### Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2180	32.69	11.07	43.76	62.89	-19.13	QP
2	0.2180	21.36	11.07	32.43	52.89	-20.46	AVG
3	0.5899	33.14	10.27	43.41	56.00	-12.59	QP
4	0.5899	22.83	10.27	33.10	46.00	-12.90	AVG
5	3.6740	33.05	10.23	43.28	56.00	-12.72	QP
6	3.6740	31.82	10.23	42.05	46.00	-3.95	AVG
7	5.4259	37.41	10.22	47.63	60.00	-12.37	QP
8	5.4259	35.96	10.22	46.18	50.00	-3.82	AVG
9	6.4699	41.33	10.21	51.54	60.00	-8.46	QP
10	6.4699	37.46	10.21	47.67	50.00	-2.33	AVG
11	7.1819	40.05	10.20	50.25	60.00	-9.75	QP
12	7.1819	38.43	10.20	48.63	50.00	-1.37	AVG

**Remarks:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

**5. RADIATED EMISSION TEST**

**5.1 LIMIT**

In case the emission fall within the restricted band specified onn the 15.209(a) in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

Frequency (MHz)	Magnetic field strength (H-Field) (µA/m)	Measurement Distance (meters)
0.009-0.490	6.37/F(kHz)	300
0.490-1.705	6.37/F(kHz)	30
1.705-30.0	0.08	30

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

Frequency (MHz)	Field Strength (µV/m at 3m)
30-88	100
88-216	150
216-960	200
Above 960	500

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

**5.2 TEST PROCEDURE**

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.  
(below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. Measurement Value = Reading Level + Correct Factor.  
Margin Level = Measurement Value - Limit Value.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

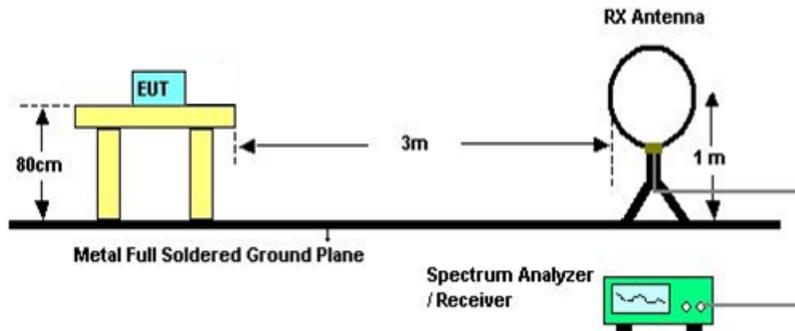
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

**5.3 MEASUREMENT INSTRUMENTS LIST**

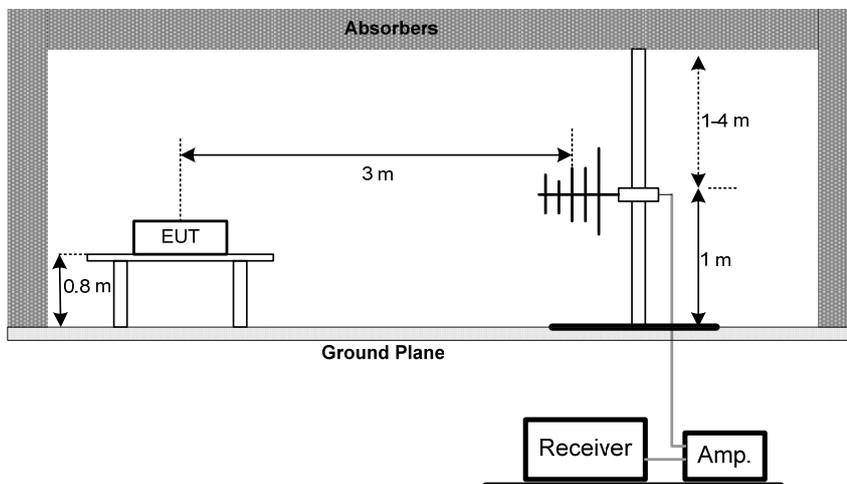
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	12/19/2022
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/16/2022
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	12/14/2022
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/05/2022
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	04/21/2022
6	Preamplifier Amplifier	HP	8447F	3113A05680	12/19/2022
7	PRE-AMPLIFIER	CY	EMC011830	980136	04/19/2022
8	RF Cable	R&S	Test Cable 4	4	12/19/2022
9	RF Cable	R&S	Test Cable 5	5	12/19/2022
10	RF Cable	R&S	Test Cable 9	9	04/21/2022
11	RF Cable	R&S	Test Cable 10	10	12/19/2022
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

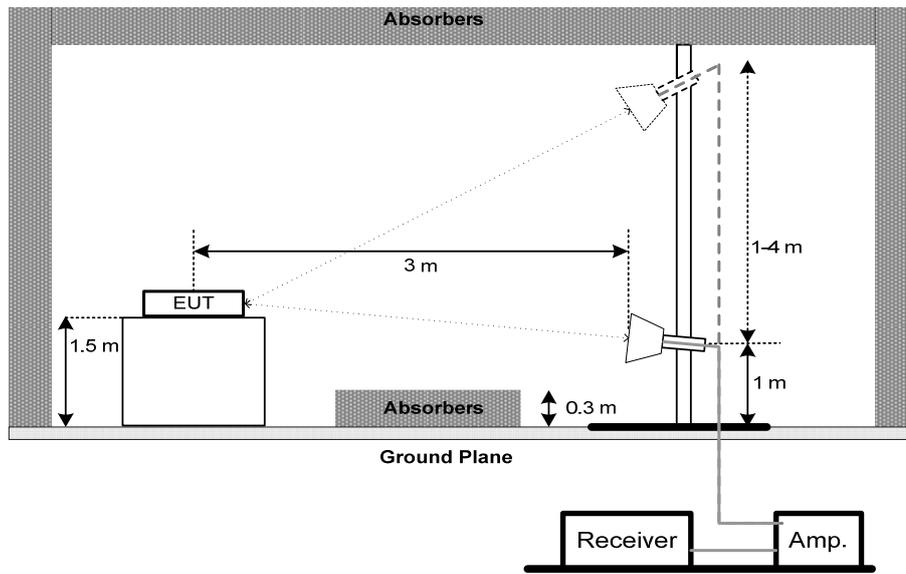
**5.4 TEST SETUP**

**9 kHz-30 MHz**



**30 MHz to 1 GHz**



**Above 1 GHz****5.5 EUT OPERATING CONDITIONS**

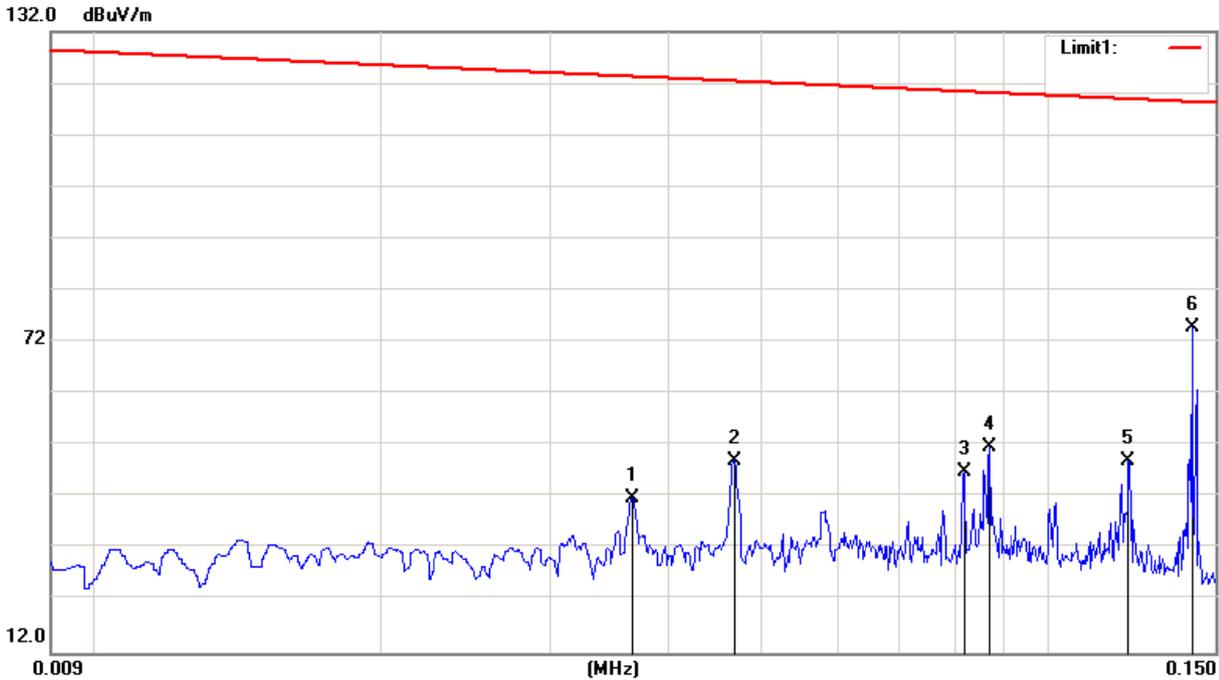
The EUT was programmed to be in continuously transmitting mode.

Remark: The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (3) Margin = Result - Limit

### 5.6 TEST RESULT- 9kHz TO 30MHz

Test Mode : TX Mode Ant 0°



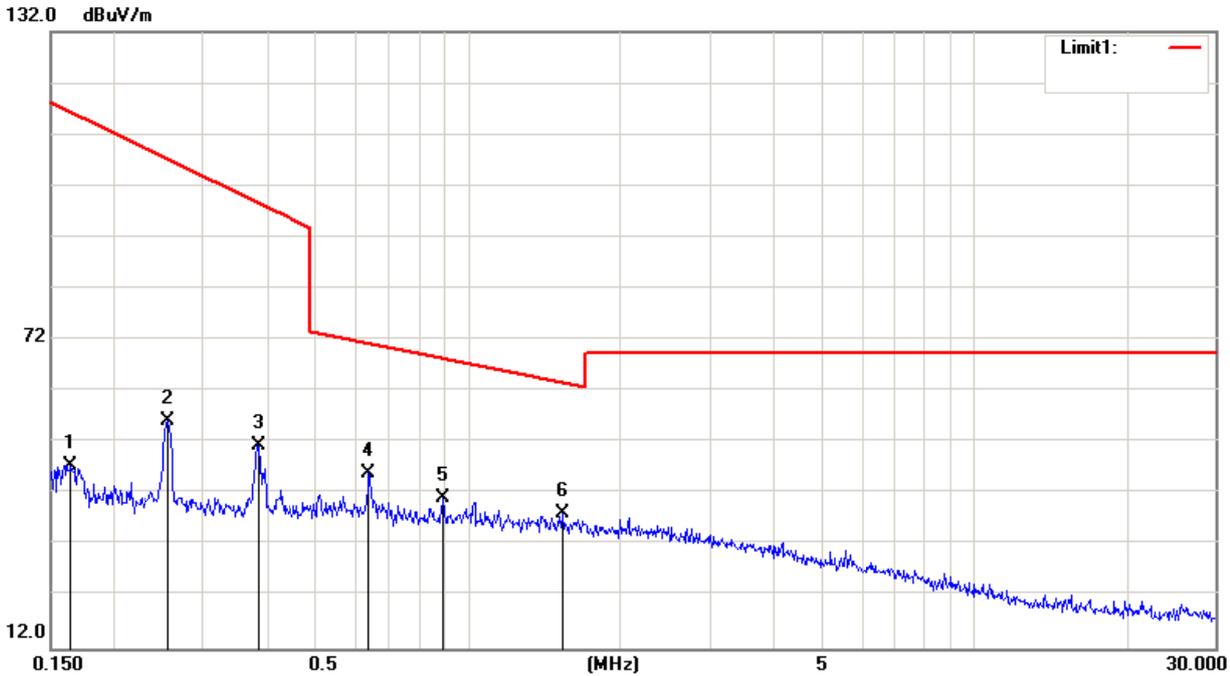
No.	Frequency (KHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0366	21.45	20.33	41.78	126.49	-84.71	peak
2	0.0469	28.76	20.38	49.14	125.74	-76.60	peak
3	0.0818	26.21	20.74	46.95	123.23	-76.28	peak
4	0.0870	31.00	20.71	51.71	122.85	-71.14	peak
5	0.1215	28.76	20.37	49.13	120.37	-71.24	peak
6	0.1420	54.64	20.34	74.98	118.89	-43.91	peak

Note:

Distance extrapolation factor = 40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor

Test Mode : TX Mode Ant 0°



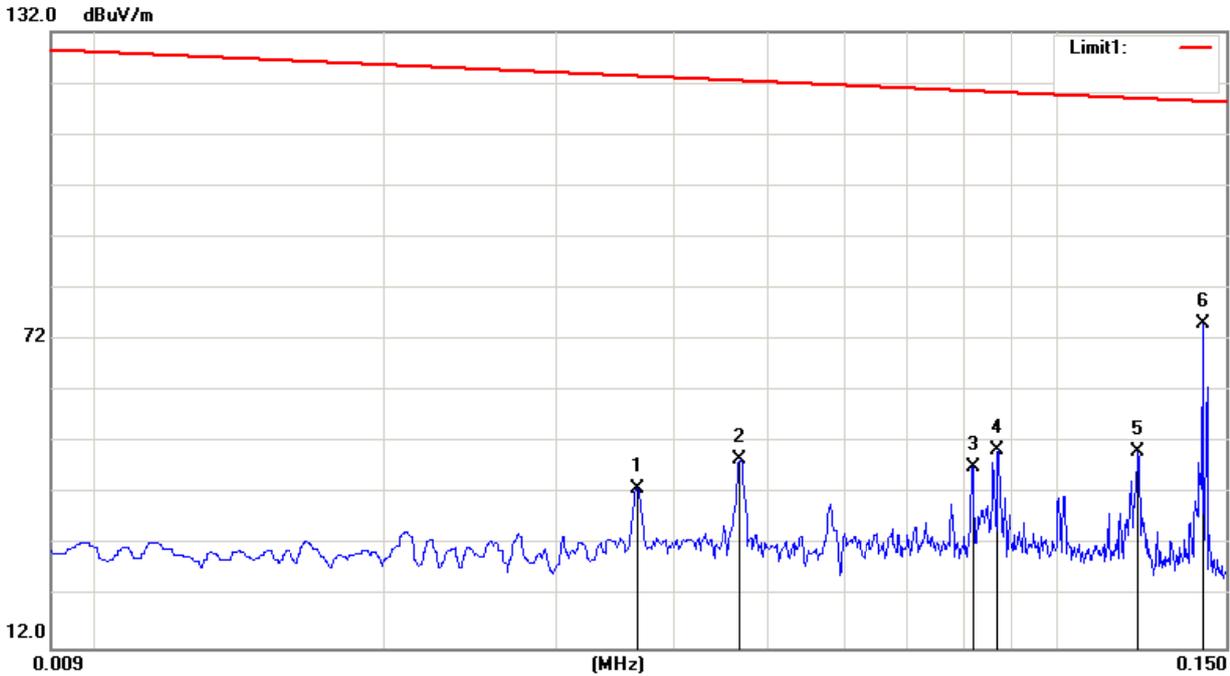
No.	Frequency (KHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1641	26.77	20.66	47.43	117.30	-69.87	peak
2	0.2562	35.50	20.64	56.14	110.66	-54.52	peak
3	0.3852	30.93	20.60	51.53	101.36	-49.83	peak
4	0.6372	25.35	20.62	45.97	72.48	-26.51	peak
5	0.8944	20.57	20.70	41.27	70.17	-28.90	peak
6	1.5355	17.32	20.86	38.18	64.42	-26.24	peak

**Note:**

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor

Test Mode : TX Mode Ant 90°



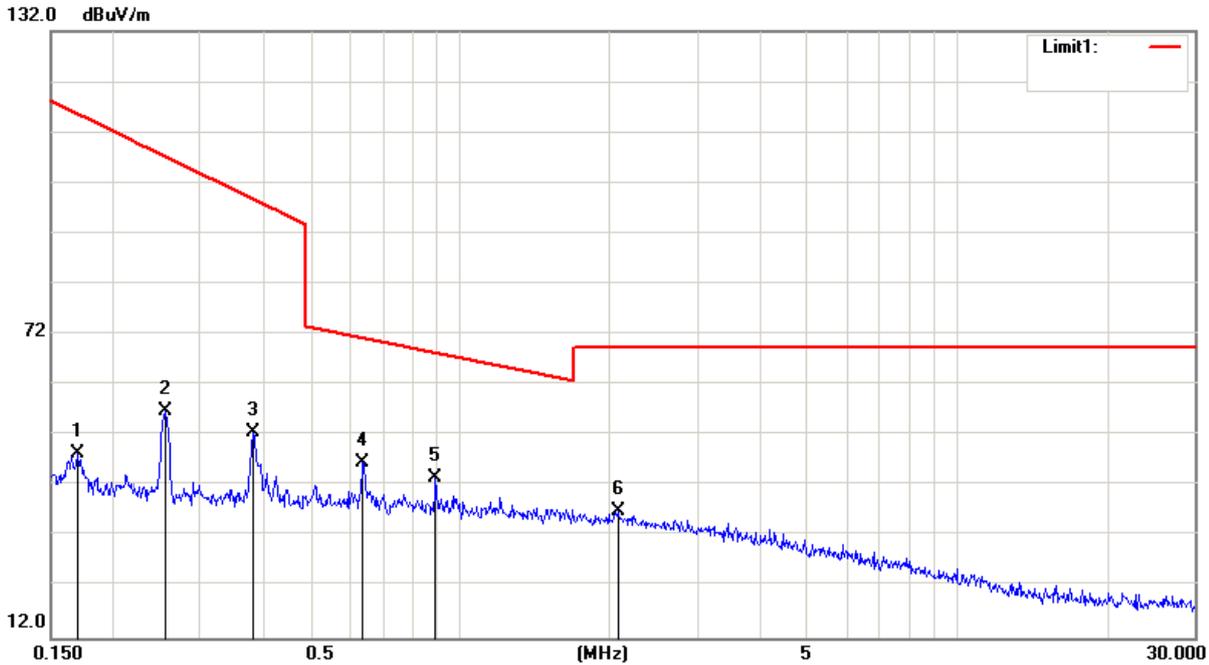
No.	Frequency (KHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0366	22.77	20.33	43.10	126.49	-83.39	peak
2	0.0468	28.46	20.38	48.84	125.75	-76.91	peak
3	0.0817	26.59	20.74	47.33	123.24	-75.91	peak
4	0.0868	29.95	20.71	50.66	122.87	-72.21	peak
5	0.1214	29.90	20.38	50.28	120.37	-70.09	peak
6	0.1419	54.94	20.34	75.28	118.90	-43.62	peak

**Note:**

Distance extrapolation factor = 40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuV) + distance extrapolation factor

Test Mode : TX Mode Ant 90°



No.	Frequency (KHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1694	27.75	20.65	48.40	116.92	-68.52	peak
2	0.2548	36.29	20.64	56.93	110.76	-53.83	peak
3	0.3811	32.07	20.60	52.67	101.65	-48.98	peak
4	0.6372	26.16	20.62	46.78	72.48	-25.70	peak
5	0.8944	22.88	20.70	43.58	70.17	-26.59	peak
6	2.0768	16.10	20.99	37.09	69.50	-32.41	peak

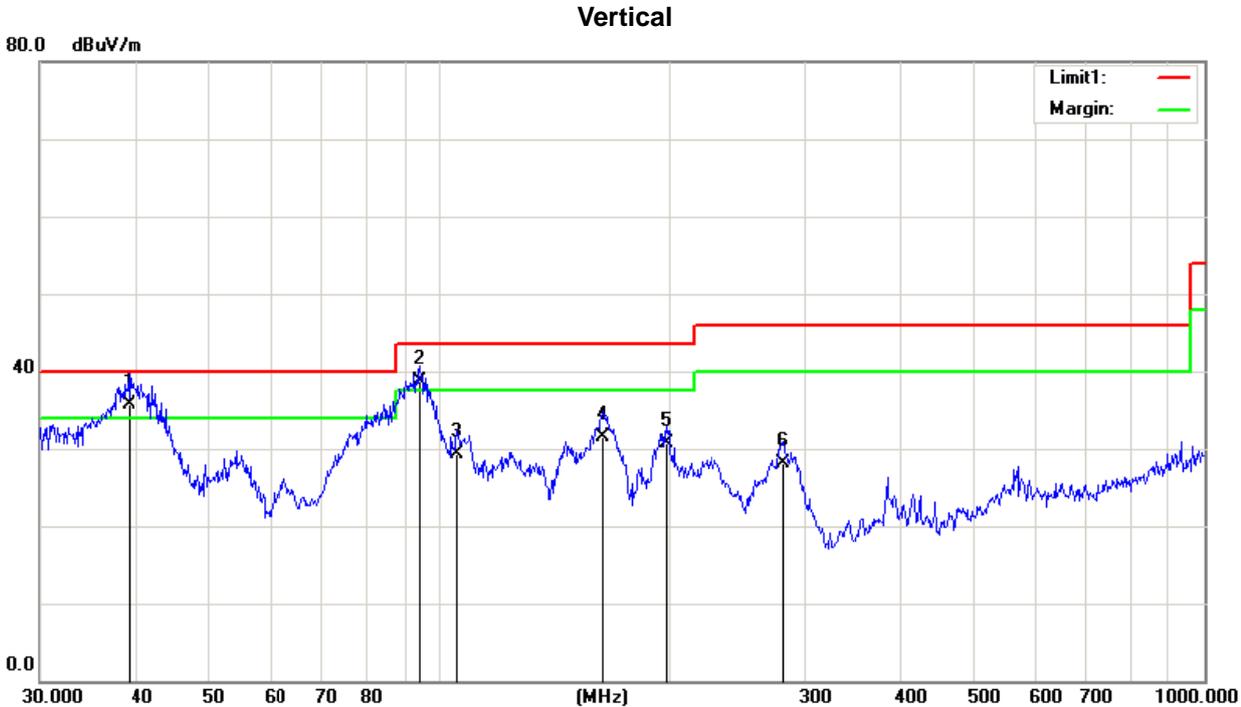
**Note:**

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor

### 5.7 TEST RESULT- 30MHz TO 1000MHz

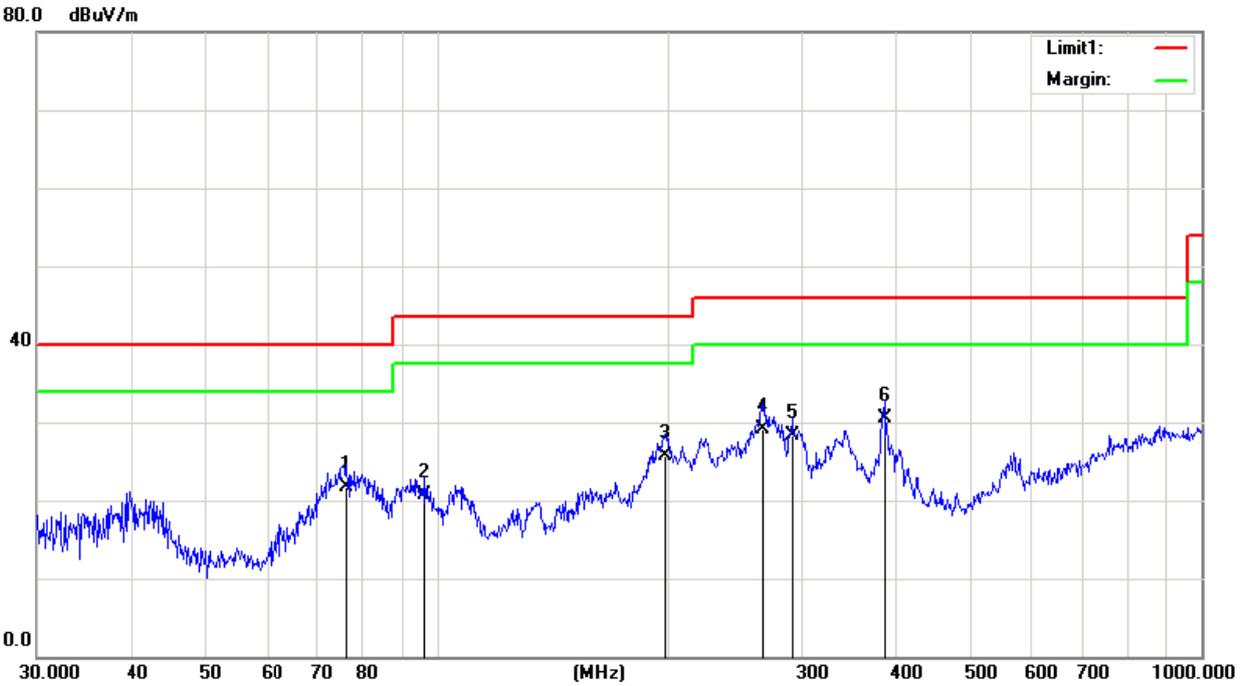
Test Mode : TX Mode Channel 0



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	39.1616	48.36	-12.71	35.65	40.00	-4.35	QP
2	94.0979	53.16	-14.47	38.69	43.50	-4.81	QP
3	105.2718	43.82	-14.44	29.38	43.50	-14.12	QP
4	163.1818	43.08	-11.51	31.57	43.50	-11.93	QP
5	197.8928	43.05	-12.31	30.74	43.50	-12.76	QP
6	281.0075	35.47	-7.36	28.11	46.00	-17.89	QP

Test Mode : TX Mode Channel 0

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	76.2442	38.64	-16.87	21.77	40.00	-18.23	QP
2	96.4362	37.02	-16.24	20.78	43.50	-22.72	QP
3	198.5880	35.84	-10.22	25.62	43.50	-17.88	QP
4	266.6089	35.41	-6.29	29.12	46.00	-16.88	QP
5	291.0360	36.35	-8.09	28.26	46.00	-17.74	QP
6	385.2805	37.86	-7.27	30.59	46.00	-15.41	QP

**6.20DB BANDWIDTH TEST**

**6.1LIMIT**

The field strength of any emission appearing between the band edges and out of band shall be attenuated at least 20DdB below the level of the unmodulated carrier or to the general limits in Section 15.209

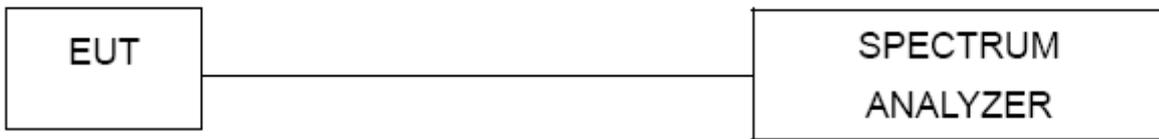
**6.2TEST PROCEDURE AND SETTING**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting : RBW= 300Hz, VBW=1 kHz, Sweep time = Auto.

**6.3MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

**6.4TEST SETUP**

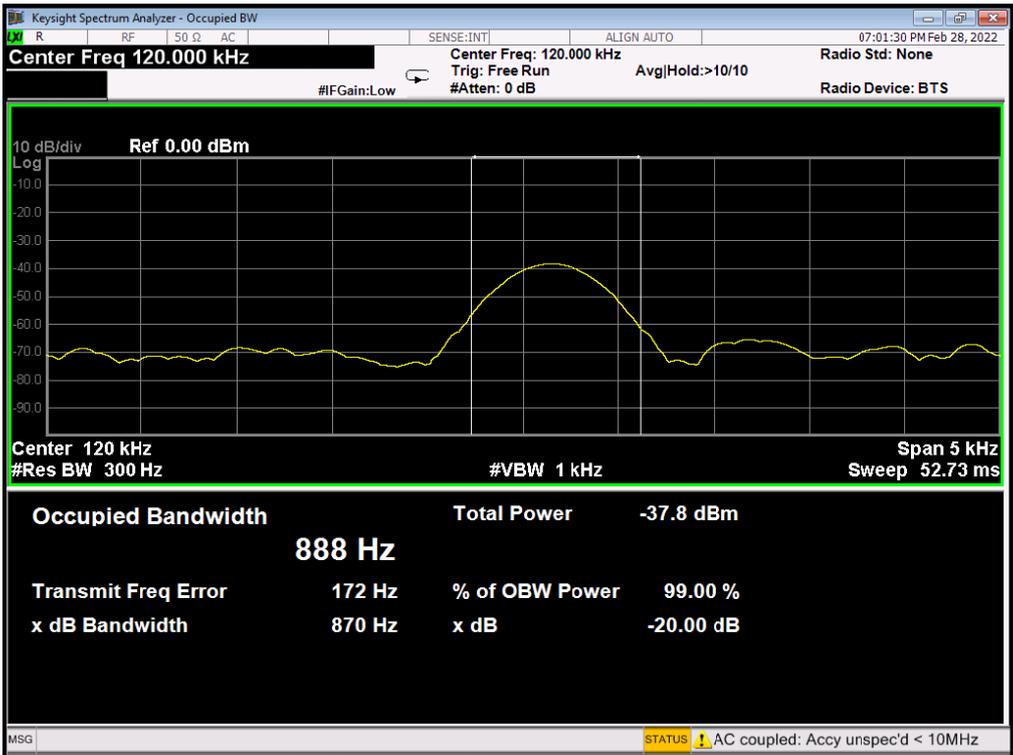
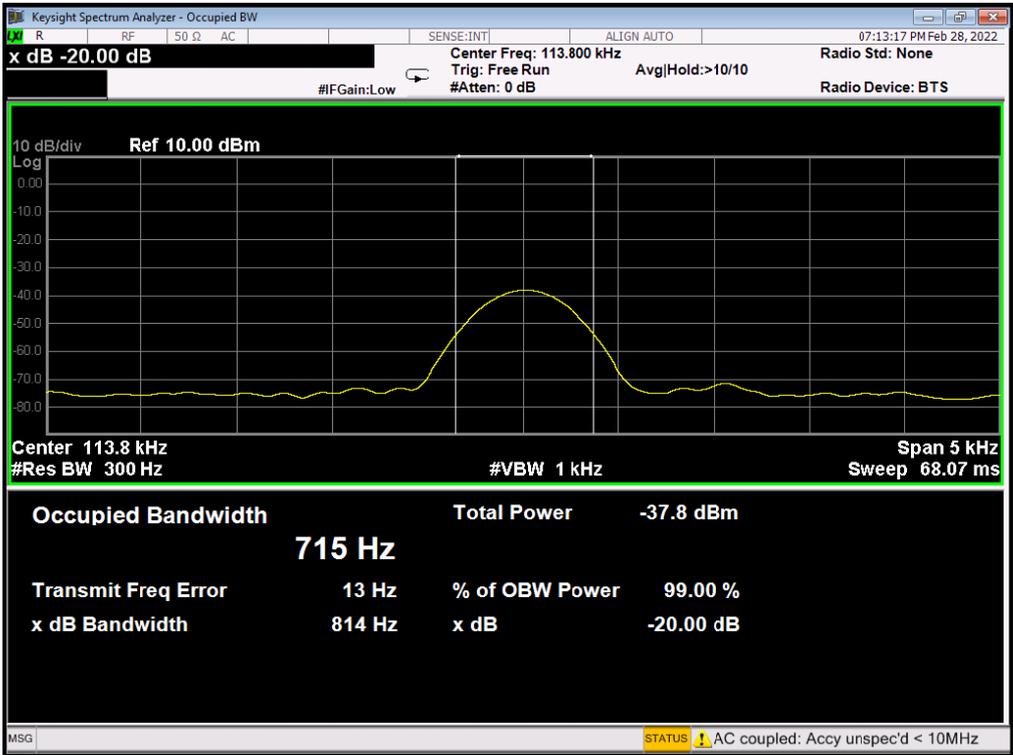


**6.5EUT OPERATION CONDITIONS**

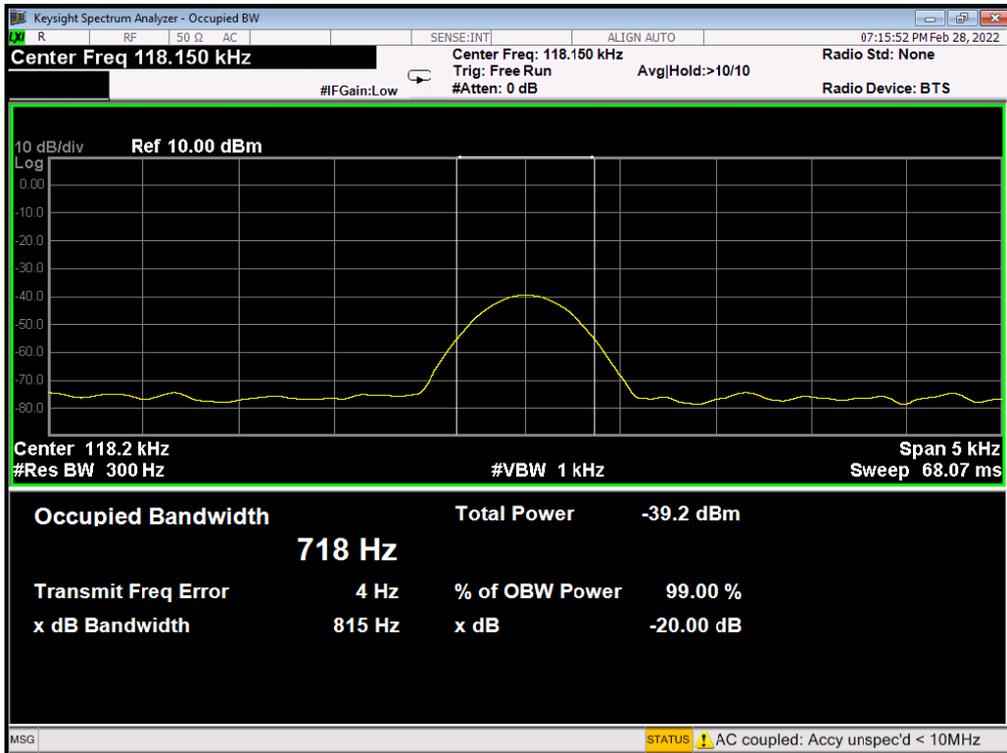
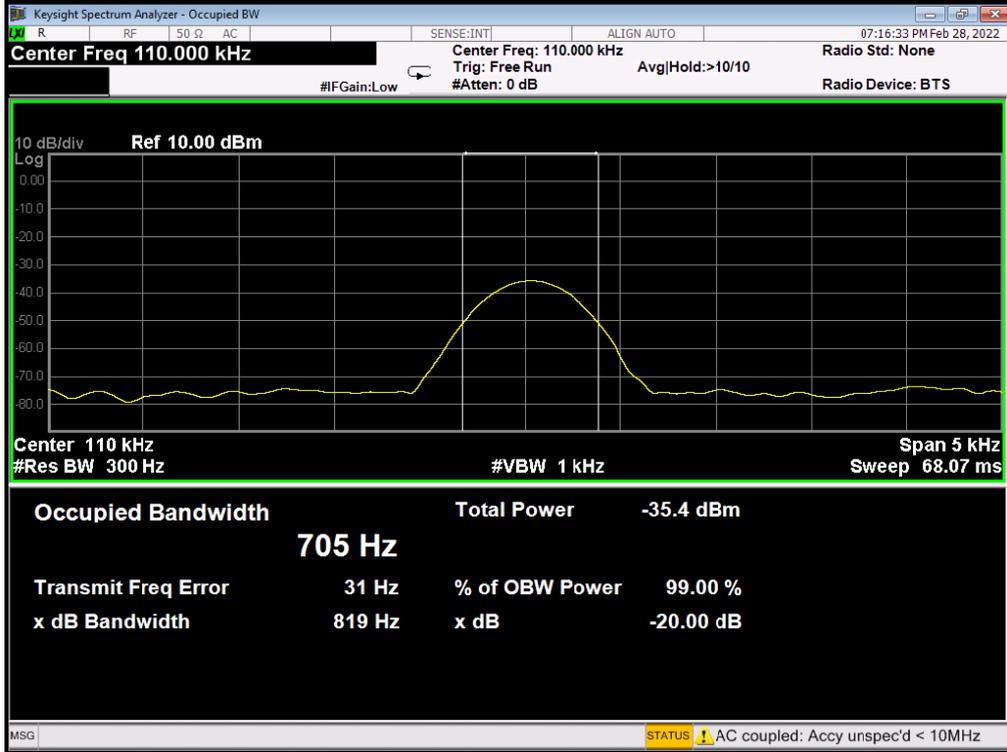
The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

## 6.6 TEST RESULTS

CHARGING MODE FOR IPHONE			
Frequency (kHz)	20 dB bandwidth (kHz)	99%OBW (kHz)	Result
113.8	0.814	0.715	PASS
120.0	0.870	0.888	PASS



CHARGING MODE FOR GALAXY BUS			
Frequency (kHz)	20 dB bandwidth (kHz)	99%OBW (kHz)	Result
110.0	0.819	0.705	PASS
118.2	0.815	0.718	PASS



END OF TEST REPORT