

# TEST REPORT

Reference No..... : WTX21X07076992W-1  
FCC ID ..... : 2AYBP-T66  
Applicant ..... : Wingo Times Shenzhen Group Co.Ltd  
Address..... : 1101, Building H, Chuangxingyungu Industrial Zone, NO.48 Paotai Road,  
Lisonglang Community, Gongming Street, Guangming District, Shenzhen  
Product Name ..... : Alarm Clock Wireless Charging Night Light  
Test Model. .... : T66  
Standards ..... : FCC Part 15C  
Date of Receipt sample .... : Jul. 30, 2021  
Date of Test..... : Jul. 30, 2021 to Aug. 17, 2021  
Date of Issue ..... : Aug. 17, 2021  
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

**Prepared By:**

**Waltek Testing Group (Shenzhen) Co., Ltd.**

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,  
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308

Fax.: +86-755-33663309

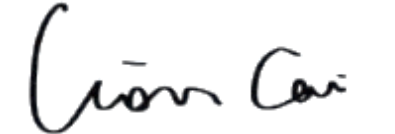
Tested by:

Reviewed By:

Approved & Authorized By:



Mike Shi / Project Engineer



Lion Cai / RF Manager



Silin Chen / Manager

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**Report version**

Version No.	Date of issue	Description
Rev.00	Aug. 17, 2021	Original
/	/	/

## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: Wingo Times Shenzhen Group Co.Ltd  
 Address of applicant: 1101, Building H, Chuangxingyungu Industrial Zone,  
 NO.48 Paotai Road, Lisonglang Community,  
 Gongming Street, Guangming District, Shenzhen

Manufacturer: Wingo Times Shenzhen Group Co.Ltd  
 Address of manufacturer: 1101, Building H, Chuangxingyungu Industrial Zone,  
 NO.48 Paotai Road, Lisonglang Community,  
 Gongming Street, Guangming District, Shenzhen

General Description of EUT	
Product Name:	Alarm Clock Wireless Charging Night Light
Trade Name:	/
Model No.:	T66
Adding Model:	/
Battery Capacity	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	112~204kHz
Modulation Type	FSK
Antenna Type:	Coil Antenna
Antenna Gain	0dBi
Rated Voltage:	Input: DC5V/3A, 9V/2A, 12V/1.5A Output: Wireless 5W/7.5W/10W/15W
Rated Current:	/

## 1.2 Test Standards

The following report is prepared on behalf of the Wingo Times Shenzhen Group Co.Ltd in accordance with Part 15.207, 15.209, RSS-Gen Issue 4 and RSS-216 Issue 2 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.207, 15.209 and RSS-Gen Issue 4 and RSS-216 Issue 2 rules.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

## 1.4 Test Facility

### **FCC – Registration No.: 125990**

Waltek Testing Group (Shenzhen) Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### **Industry Canada (IC) Registration No.: 11464A**

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

## 1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark	Power Supply Mode
TM1	Wireless output	Wireless output: 5W	Input: DC5V/3A, 9V/2A, 12V/1.5A
TM2	Wireless output	Wireless output: 10W	Input: DC5V/3A, 9V/2A, 12V/1.5A
TM3	Wireless output	Wireless output: 15W	Input: DC5V/3A, 9V/2A, 12V/1.5A

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Type-C Cable	1.2	Shielded	Without Ferrite
wireless charging load	YBZ	YBZ wireless charging tester	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
Adapter	/	A138A-120150U-CN 2	/

## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

**1.7 Test Equipment List and Details**

<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal Date</b>	<b>Due Date</b>
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2021-03-30	2022-03-29
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-04-12	2022-04-11
Amplifier	Agilent	8447F	3113A06717	2021-04-12	2022-04-11
Amplifier	C&D	PAP-1G18	2002	2021-04-12	2022-04-11
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
Amplifier	Agilent	8447D	2944A10179	2021-04-12	2022-04-11
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2021-04-15	2022-04-14

## 2. SUMMARY OF TEST RESULTS

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<b>Description of Test</b>	<b>Result</b>
§ 15.207(a) Conducted Emission	Compliant
§ 15.209(a) Radiated Emission	Compliant
§ 15.215 20dB Emission Bandwidth	Compliant



### **3. RF Exposure**

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#### **3.1 Standard Applicable**

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

#### **3.2 Test Result**

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

## **4. Antenna Requirement**

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### **4.1 Standard Applicable**

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

### **4.2 Evaluation Information**

This product has a Coil antenna, fulfill the requirement of this section.

## 5. Conducted Emissions

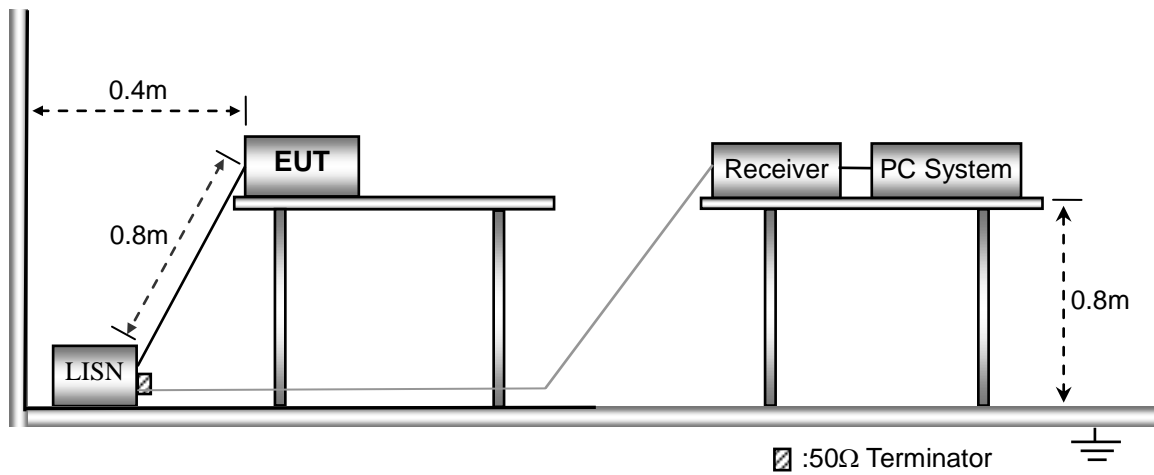
### 5.1 Test Procedure

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

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

### 5.2 Basic Test Setup Block Diagram



### 5.3 Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	54%
ATM Pressure:	1012 mbar

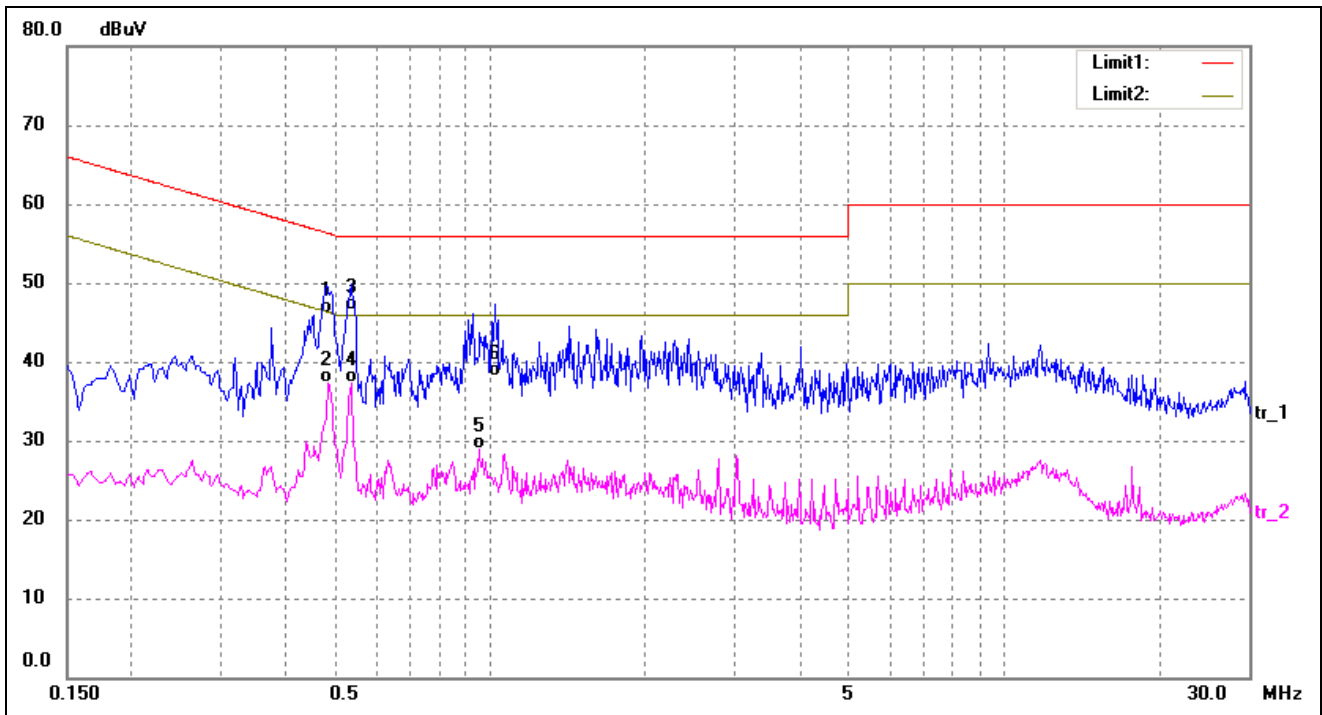
### 5.4 Test Receiver Setup

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

Start Frequency .....	150 kHz
Stop Frequency.....	30 MHz
Sweep Speed .....	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth .....	9 kHz
Quasi-Peak Adapter Mode .....	Normal

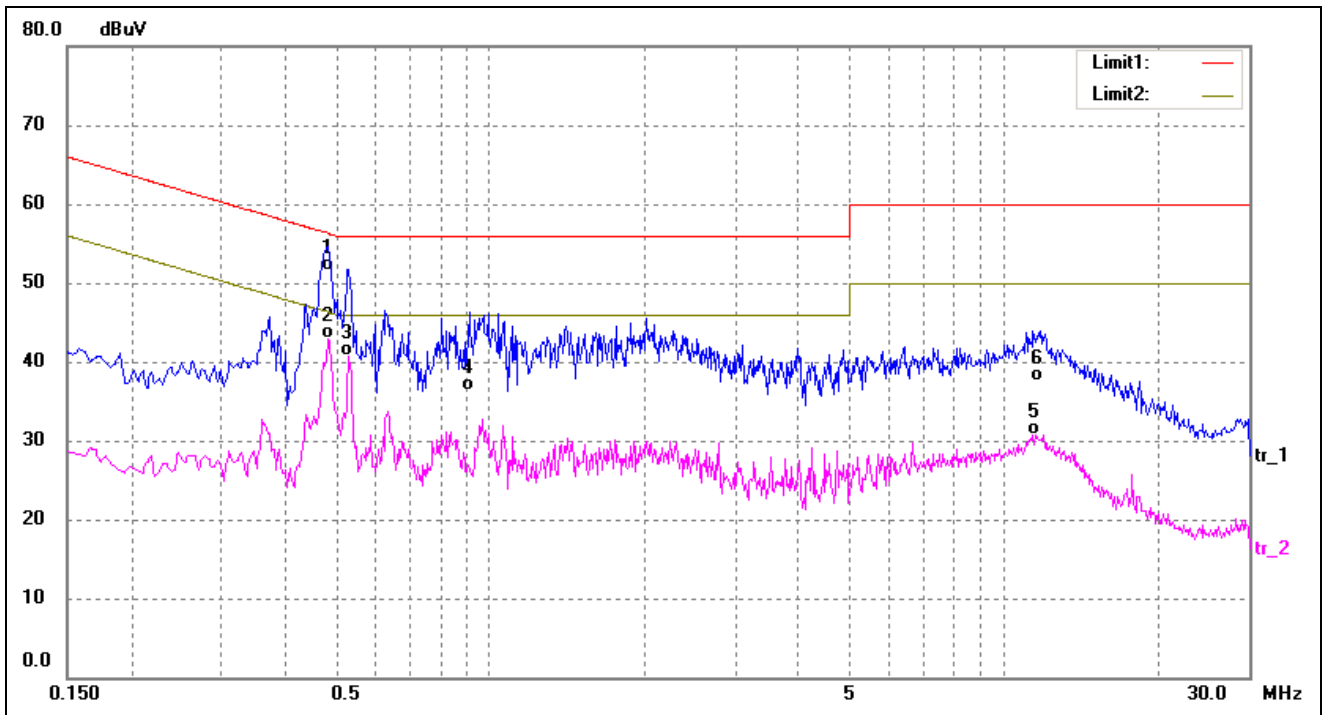
### 5.5 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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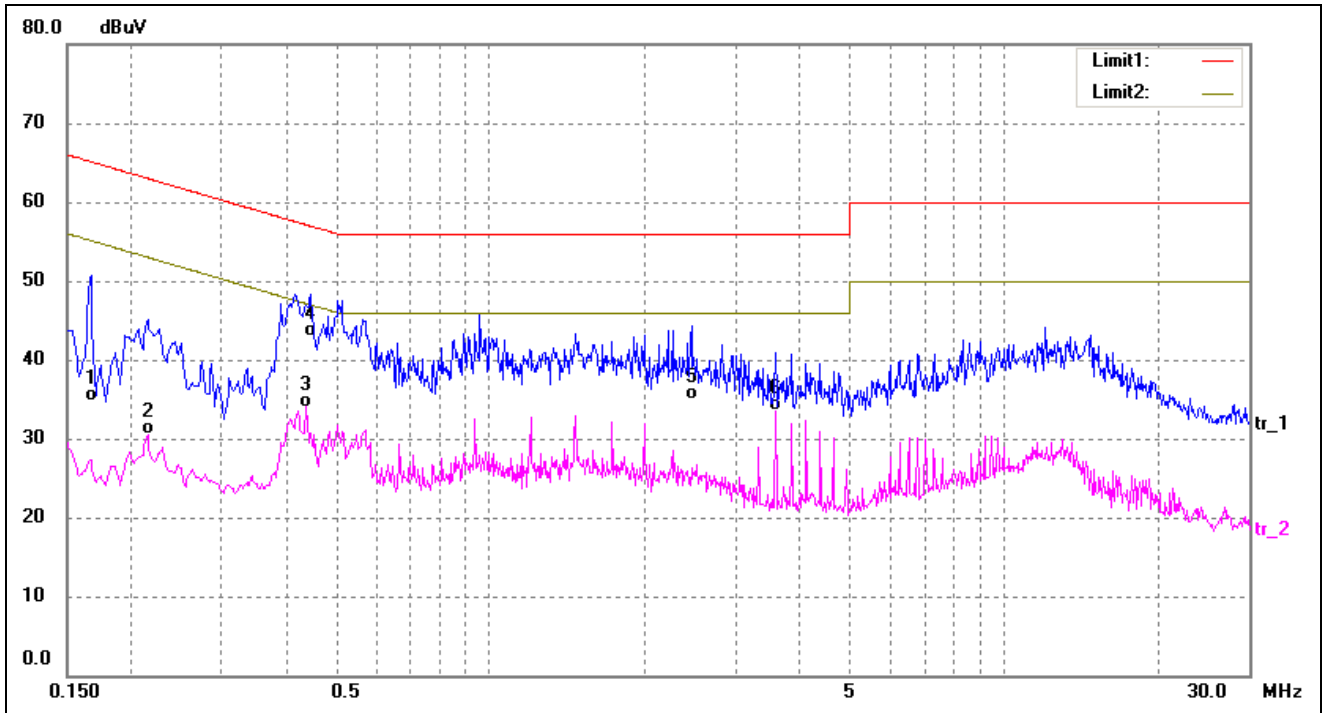
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4780	35.85	10.22	46.07	56.37	-10.30	QP
2	0.4820	27.06	10.22	37.28	46.30	-9.02	AVG
3	0.5340	36.30	10.22	46.52	56.00	-9.48	QP
4*	0.5340	27.03	10.22	37.25	46.00	-8.75	AVG
5	0.9500	18.77	10.21	28.98	46.00	-17.02	AVG
6	1.0220	27.81	10.20	38.01	56.00	-17.99	QP

Test mode:	TM1	Polarity:	Neutral
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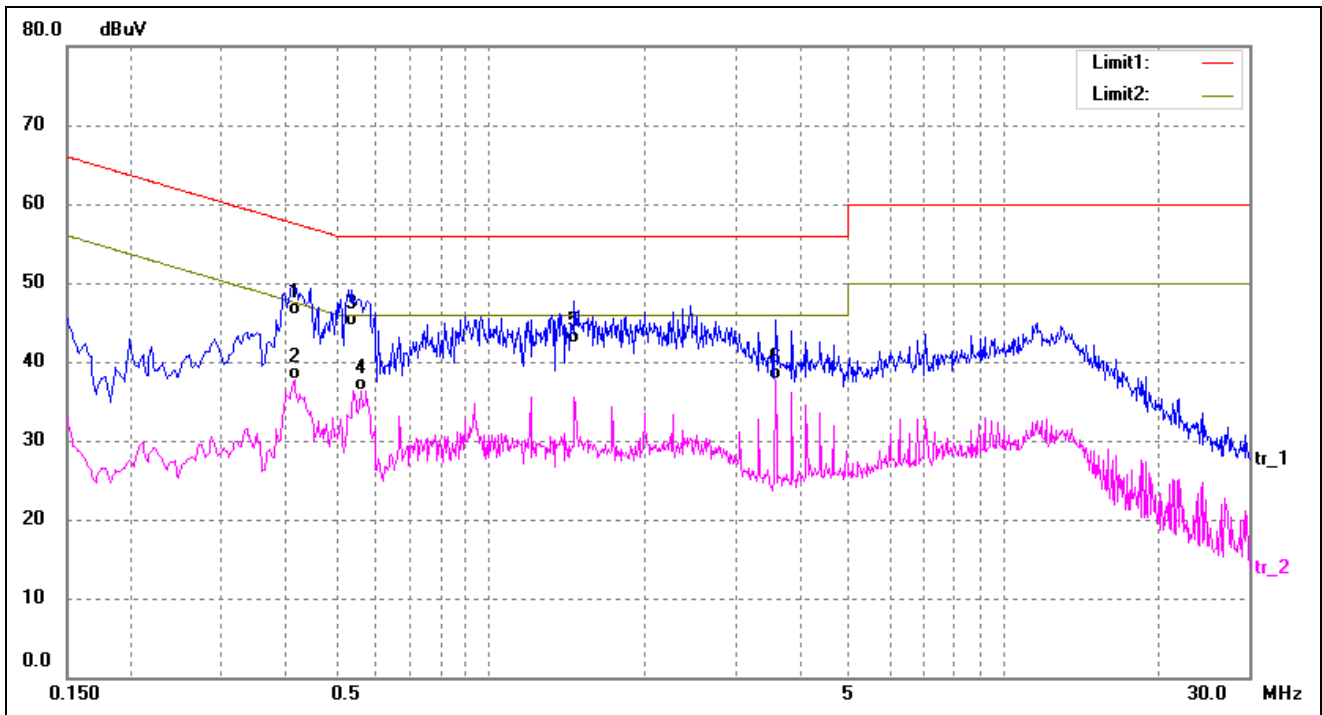
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4820	41.31	10.22	51.53	56.30	-4.77	QP
2*	0.4820	32.77	10.22	42.99	46.30	-3.31	AVG
3	0.5300	30.49	10.22	40.71	46.00	-5.29	AVG
4	0.9100	26.08	10.22	36.30	56.00	-19.70	QP
5	11.5220	20.41	10.38	30.79	50.00	-19.21	AVG
6	11.7980	27.14	10.39	37.53	60.00	-22.47	QP

Test mode:	TM2	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	24.53	10.26	34.79	65.16	-30.37	QP
2	0.2140	20.16	10.26	30.42	53.05	-22.63	AVG
3	0.4380	23.78	10.22	34.00	47.10	-13.10	AVG
4	0.4460	32.73	10.22	42.95	56.95	-14.00	QP
5	2.4620	24.55	10.30	34.85	56.00	-21.15	QP
6*	3.5980	23.28	10.25	33.53	46.00	-12.47	AVG

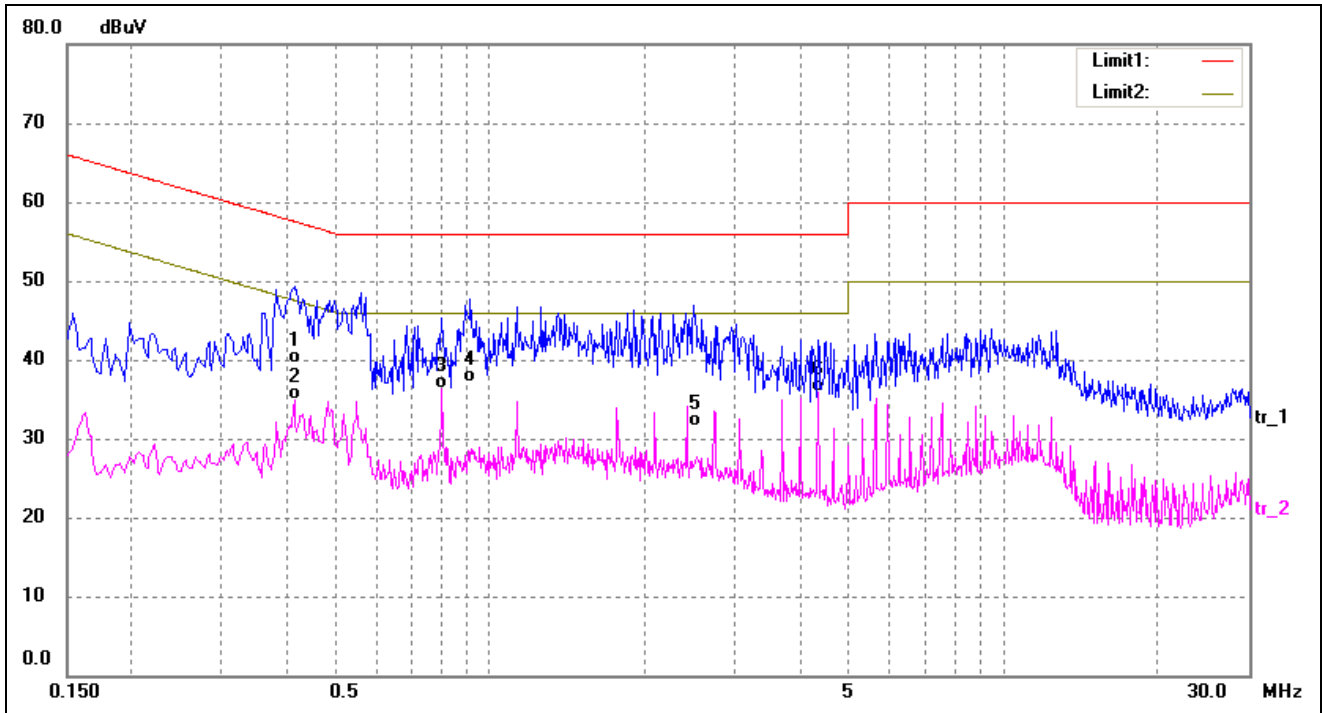
Test mode:	TM2	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4100	35.66	10.23	45.89	57.65	-11.76	QP
2	0.4140	27.51	10.23	37.74	47.57	-9.83	AVG
3	0.5380	34.30	10.21	44.51	56.00	-11.49	QP
4	0.5580	26.17	10.21	36.38	46.00	-9.62	AVG
5	1.4620	32.01	10.23	42.24	56.00	-13.76	QP
6*	3.5980	27.52	10.25	37.77	46.00	-8.23	AVG

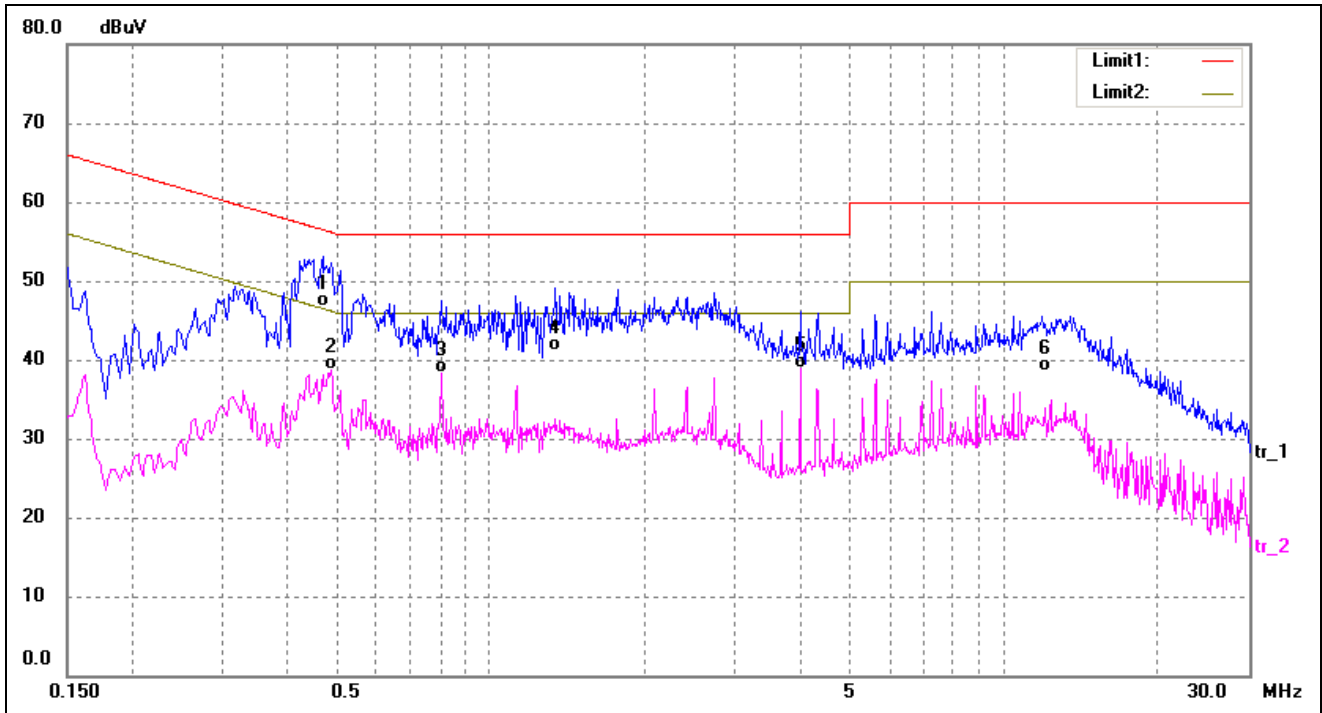


Test mode:	TM3	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4140	29.19	10.23	39.42	57.57	-18.15	QP
2	0.4140	24.73	10.23	34.96	47.57	-12.61	AVG
3*	0.8060	26.08	10.18	36.26	46.00	-9.74	AVG
4	0.9180	26.88	10.22	37.10	56.00	-18.90	QP
5	2.4980	21.16	10.29	31.45	56.00	-24.55	QP
6	4.3460	25.59	10.23	35.82	46.00	-10.18	AVG

Test mode:	TM3	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4700	36.56	10.23	46.79	56.51	-9.72	QP
2	0.4900	28.47	10.22	38.69	46.17	-7.48	AVG
3	0.8060	28.17	10.18	38.35	46.00	-7.65	AVG
4	1.3380	30.96	10.22	41.18	56.00	-14.82	QP
5*	4.0140	28.76	10.24	39.00	46.00	-7.00	AVG
6	11.8780	28.11	10.39	38.50	60.00	-21.50	QP

## 6. Field Strength of Spurious Emissions

### 6.1 Standard Applicable

According to §15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:.

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

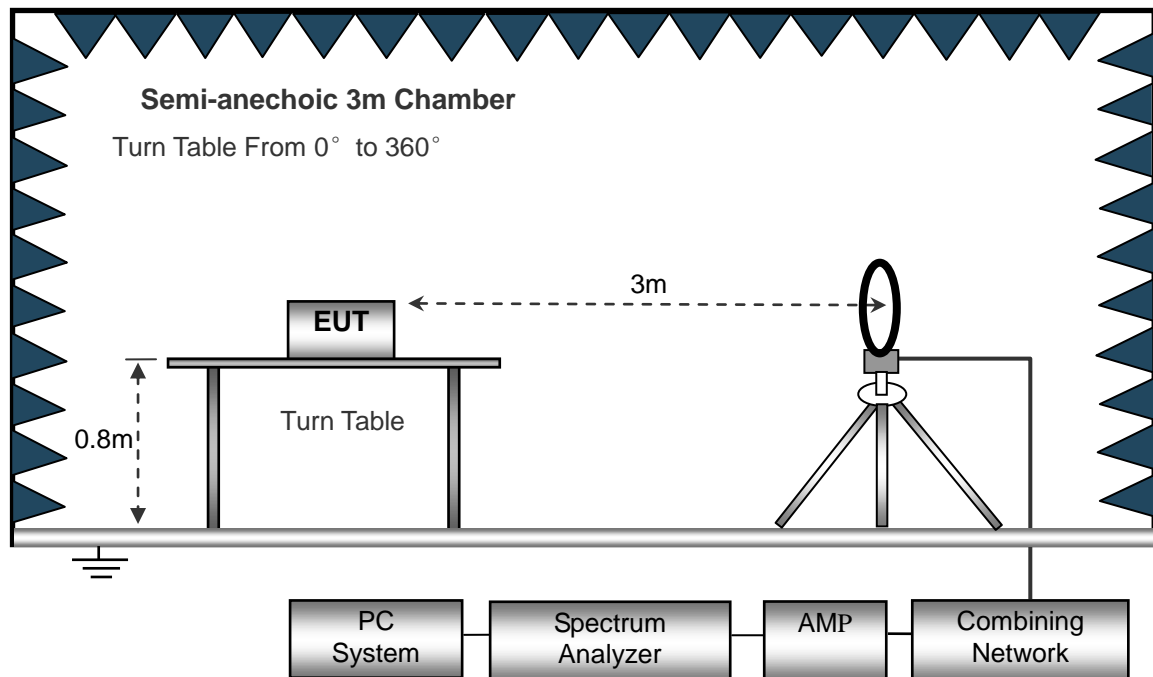
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 6.2 Test Procedure

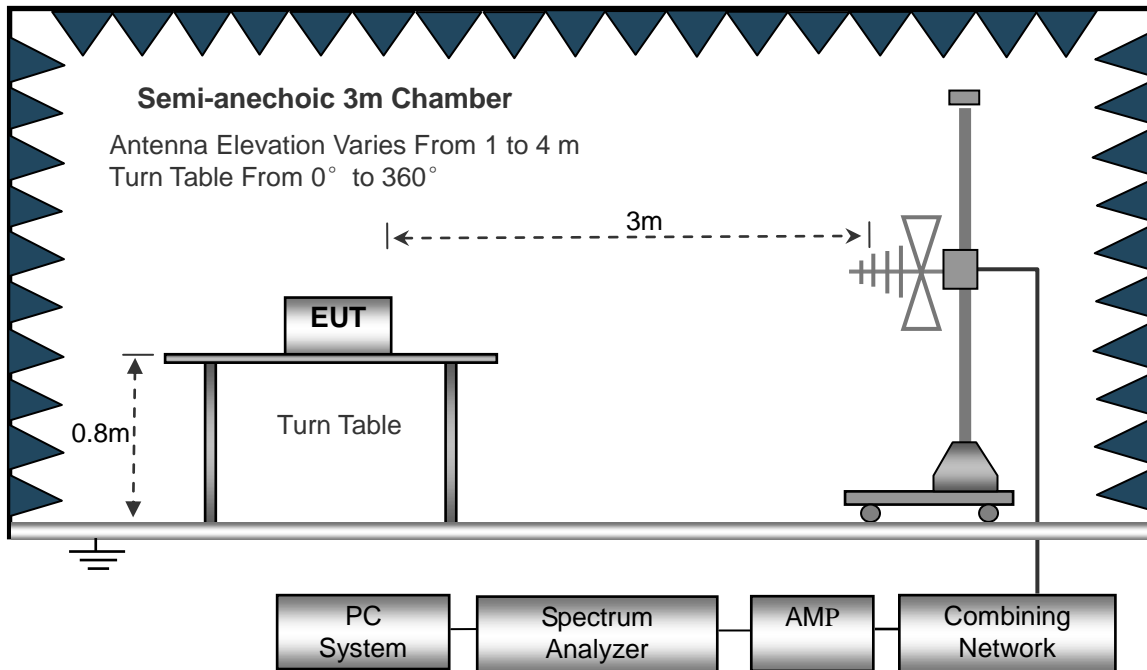
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

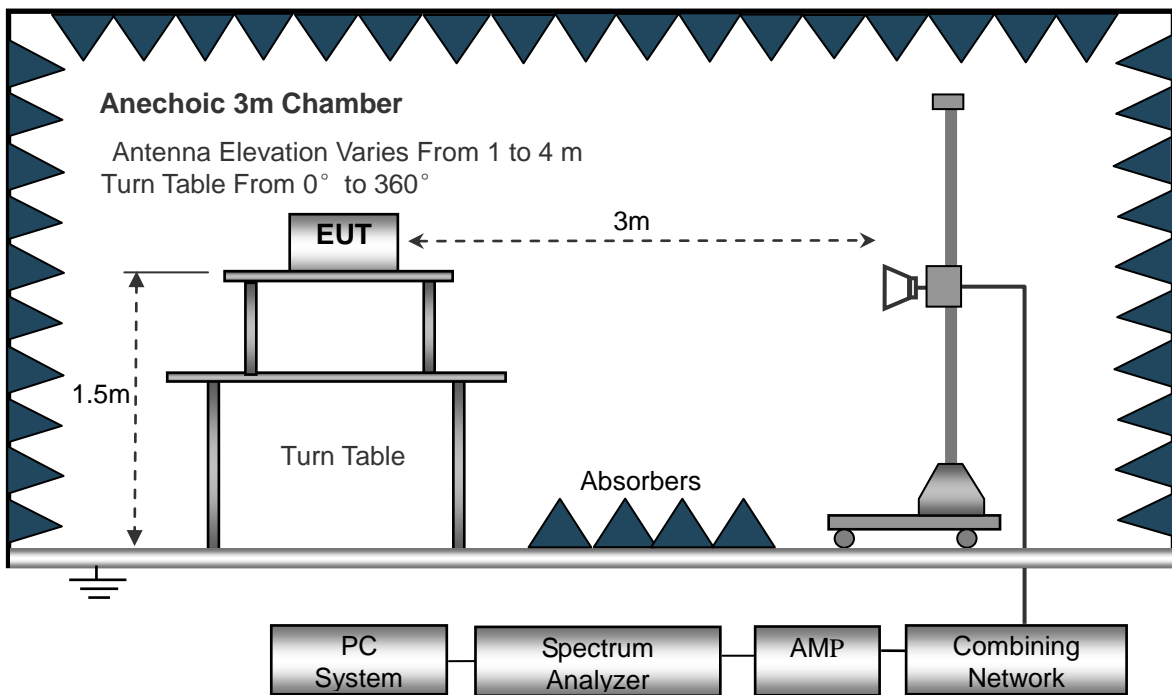
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



Frequency :9kHz-30MHz  
 RBW=10KHz,  
 VBW =30KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak

Frequency :30MHz-1GHz  
 RBW=120KHz,  
 VBW=300KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, QP

Frequency :Above 1GHz  
 RBW=1MHz,  
 VBW=3MHz(Peak), 10Hz(AV)  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, AV

### 6.3 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

### 6.4 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54%
ATM Pressure:	1012 mbar

### 6. Reference Measurement at open field site

The measurement was performed with set-up consisting of a single turn loop antenna with a diameter of 0.15 m, fed by a signal generator. The loop dimension was chosen to simulate the EUT as far as possible. The signal generator was set to a fixed output level with an unmodulated 10 kHz and 14 kHz sinusoidal signal.

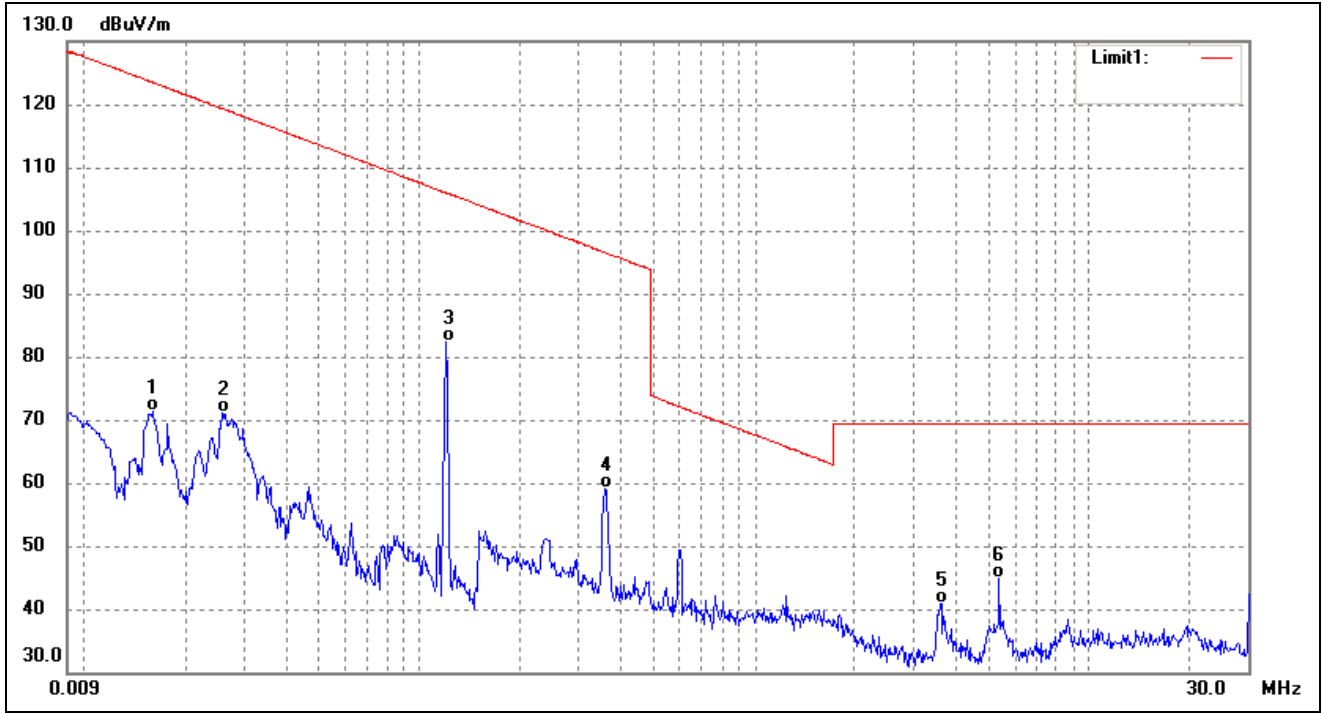
The radiated H fieldstrength at 10 kHz and 14 kHz generated by this set-up was measured with the same test setup as used in the SAC in 3 m distance first, and then repeated at the open field site in 3 m and 10 m distance

### 6.5 Summary of Test Results/Plots

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

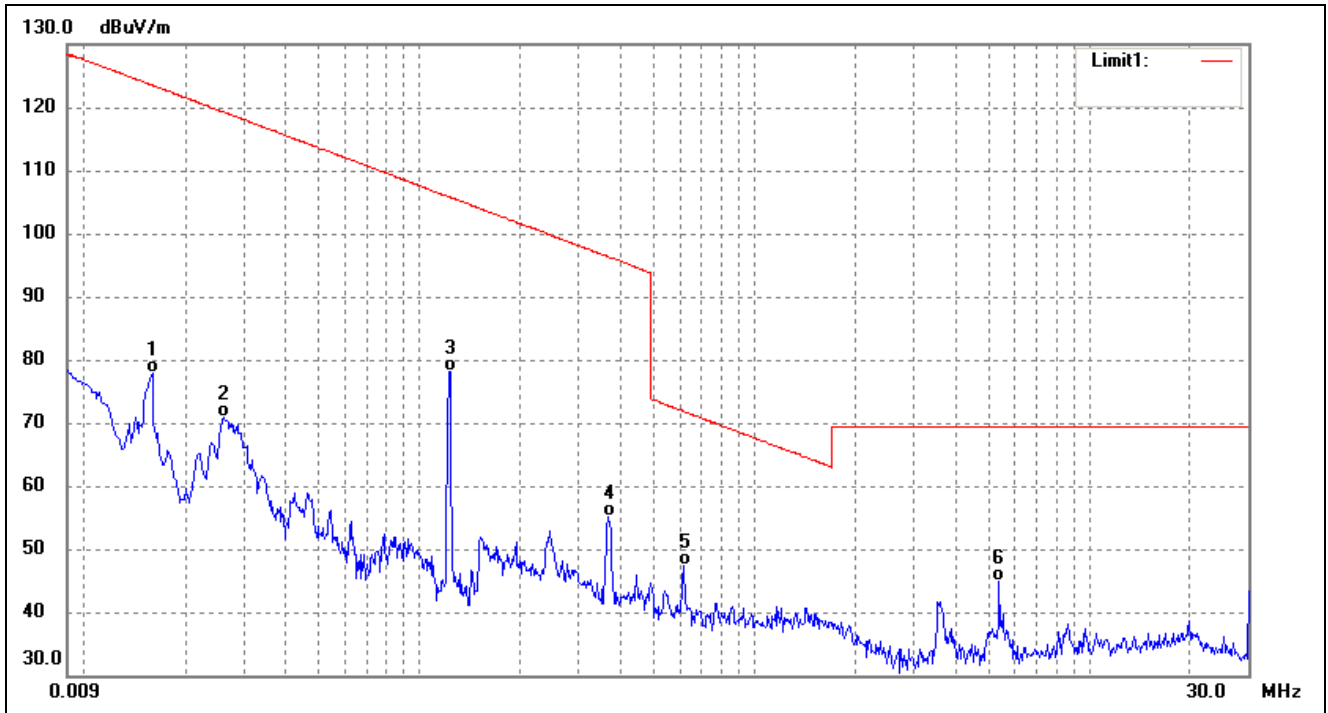
**Radiated Emissions Test Data (Below 30MHz)( Worst case EUT X axis)**

Test mode:	TM1	Polarity:	Vertical
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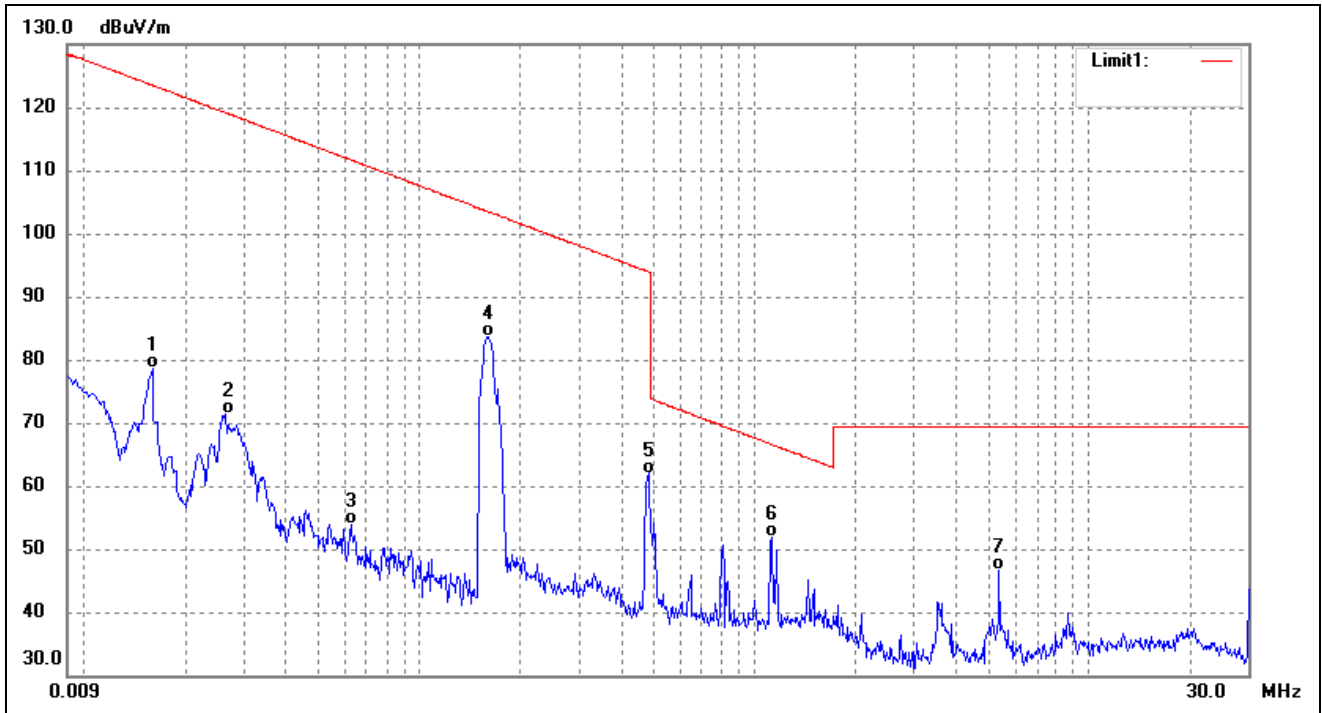
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	0.0160	78.10	-6.64	71.46	123.51	-52.05	-	-	QP
2	0.0257	77.59	-6.44	71.15	119.39	-48.24	-	-	QP
3	0.1198	87.58	-5.11	82.47	106.03	-23.56	-	-	QP
4	0.3577	66.96	-7.87	59.09	96.53	-37.44	-	-	QP
5	3.5843	46.09	-5.19	40.90	69.50	-28.60	-	-	QP
6	5.3900	49.29	-4.29	45.00	69.50	-24.50	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	0.0160	84.60	-6.64	77.96	123.51	-45.55	-	-	QP
2	0.0262	77.16	-6.40	70.76	119.22	-48.46	-	-	QP
3	0.1225	83.32	-5.11	78.21	105.83	-27.62	-	-	QP
4	0.3673	62.91	-7.86	55.05	96.30	-41.25	-	-	QP
5	0.6140	54.63	-7.14	47.49	71.85	-24.36	-	-	QP
6	5.3900	49.05	-4.29	44.76	69.50	-24.74	-	-	QP

Test mode:	TM3	Polarity:	X
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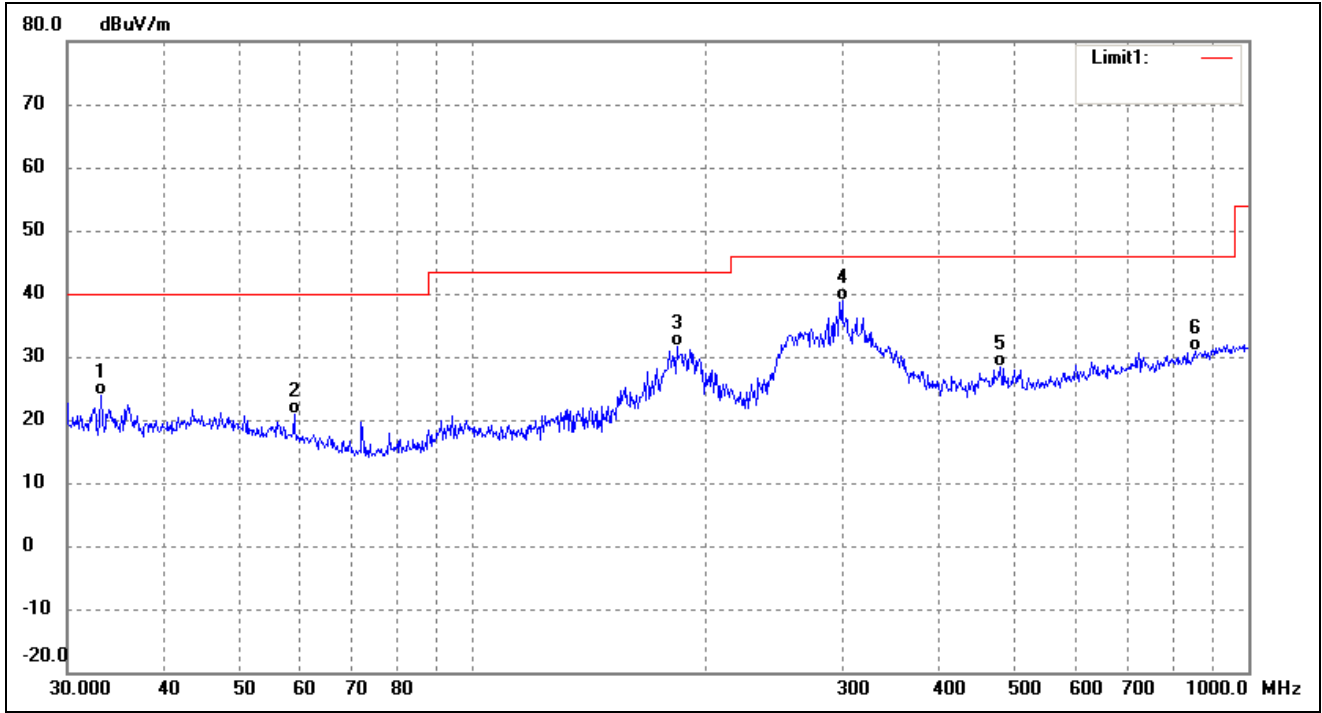


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	0.0159	85.21	-6.63	78.58	123.56	-44.98	-	-	QP
2	0.0263	77.86	-6.39	71.47	119.19	-47.72	-	-	QP
3	0.0624	58.98	-5.02	53.96	111.69	-57.73	-	-	QP
4	0.1590	89.09	-5.40	83.69	103.57	-19.88	-	-	QP
5	0.4812	69.69	-7.69	62.00	93.96	-31.96	-	-	QP
6	1.1233	58.20	-6.29	51.91	66.61	-14.70	-	-	QP
7	5.3900	50.90	-4.29	46.61	69.50	-22.89	-	-	QP



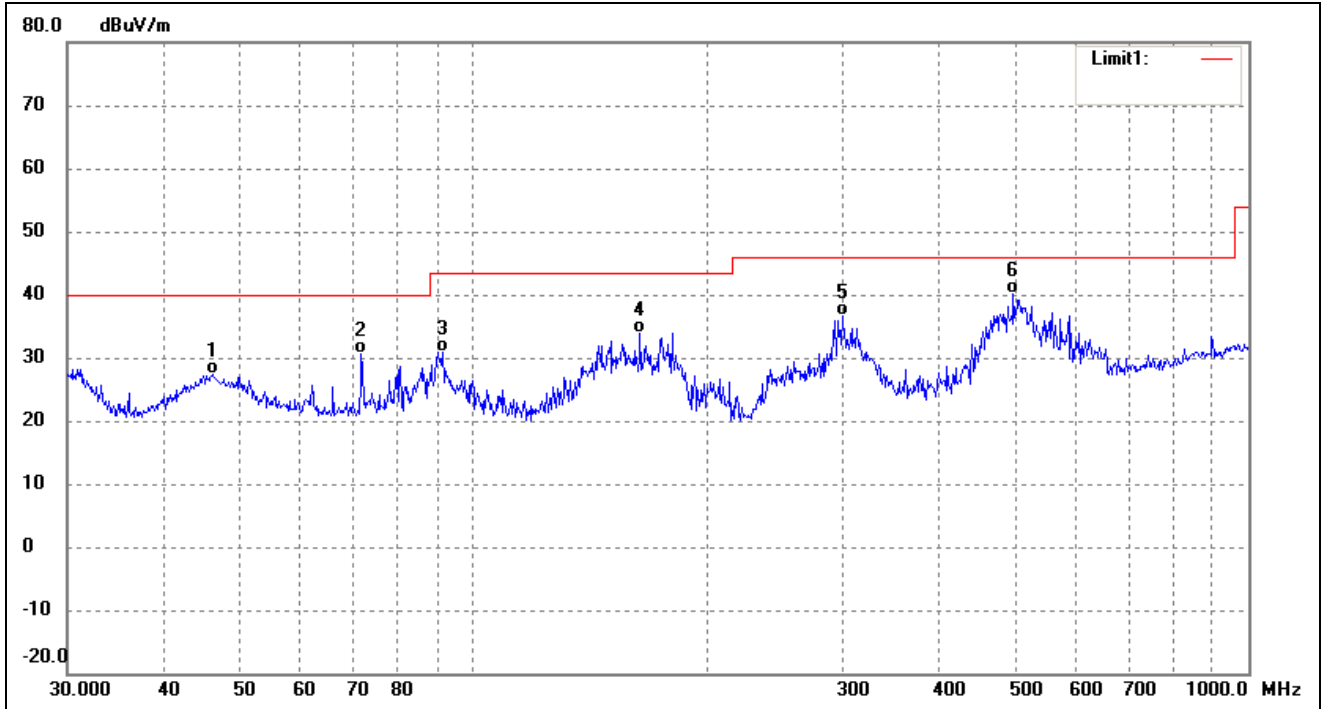
**Plot of Radiated Emissions Test Data ( Above 30MHz)**

Test mode:	TM1	Polarity:	Horizontal
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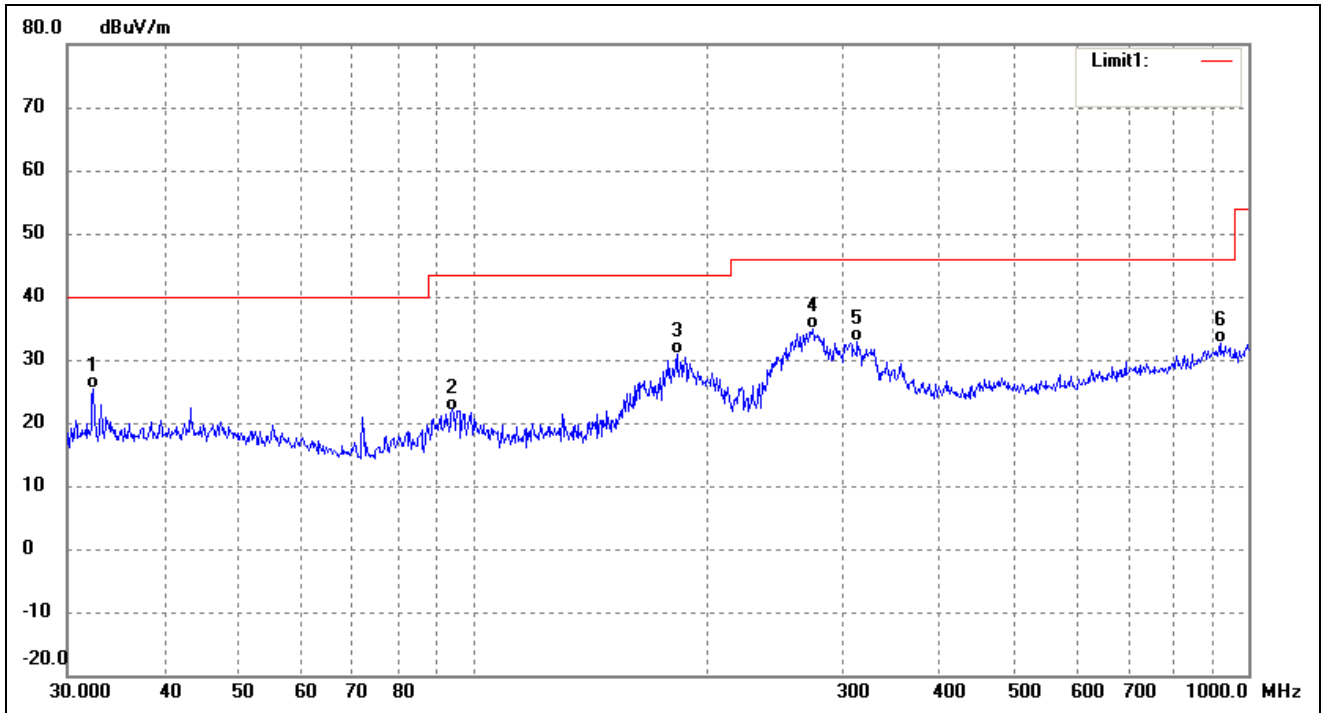
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	33.0950	33.24	-9.42	23.82	40.00	-16.18	-	-	QP
2	58.8185	30.33	-9.47	20.86	40.00	-19.14	-	-	QP
3	183.2005	41.74	-10.20	31.54	43.50	-11.96	-	-	QP
4	299.3158	44.63	-5.65	38.98	46.00	-7.02	-	-	QP
5	478.8456	31.32	-2.91	28.41	46.00	-17.59	-	-	QP
6	854.0247	28.26	2.61	30.87	46.00	-15.13	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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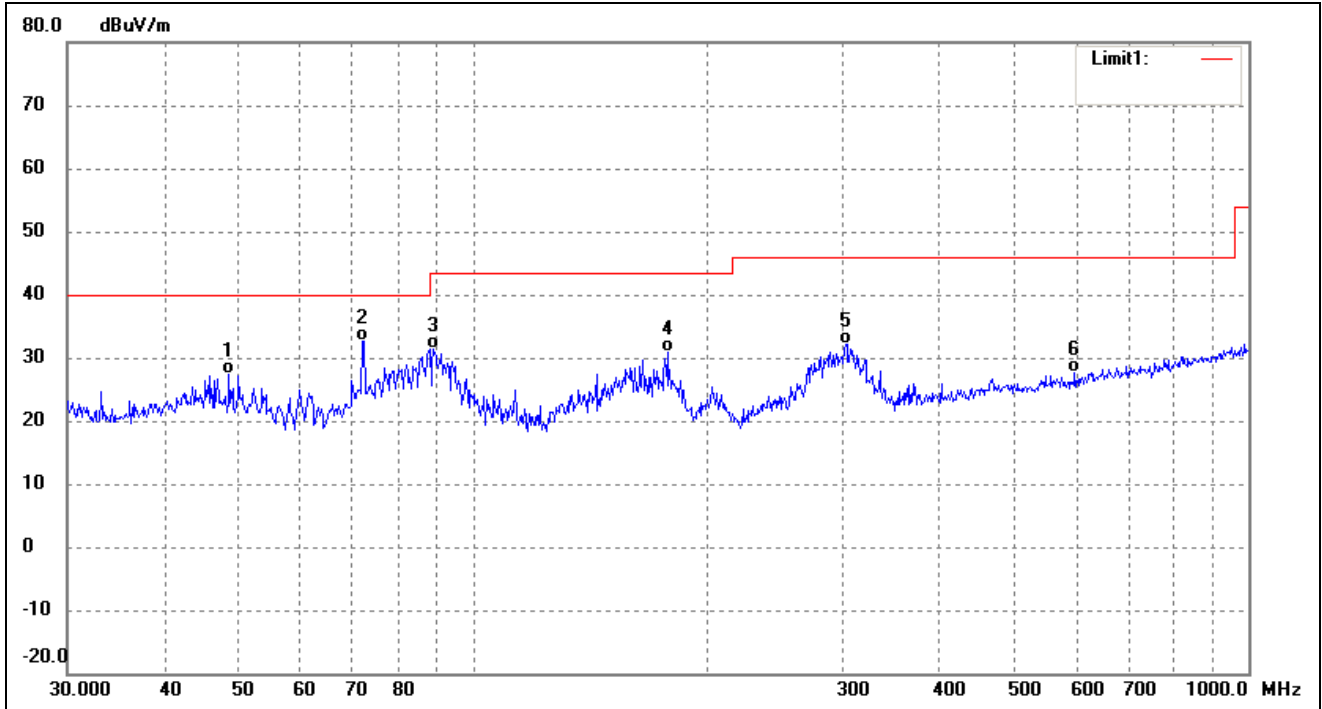
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	46.1780	35.31	-7.95	27.36	40.00	-12.64	-	-	QP
2	71.8320	42.30	-11.75	30.55	40.00	-9.45	-	-	QP
3	91.4949	41.89	-10.95	30.94	43.50	-12.56	-	-	QP
4	164.3302	45.37	-11.43	33.94	43.50	-9.56	-	-	QP
5	299.3158	42.18	-5.65	36.53	46.00	-9.47	-	-	QP
6	497.6765	42.83	-2.69	40.14	46.00	-5.86	-	-	QP

Test mode:	TM2	Polarity:	Horizontal
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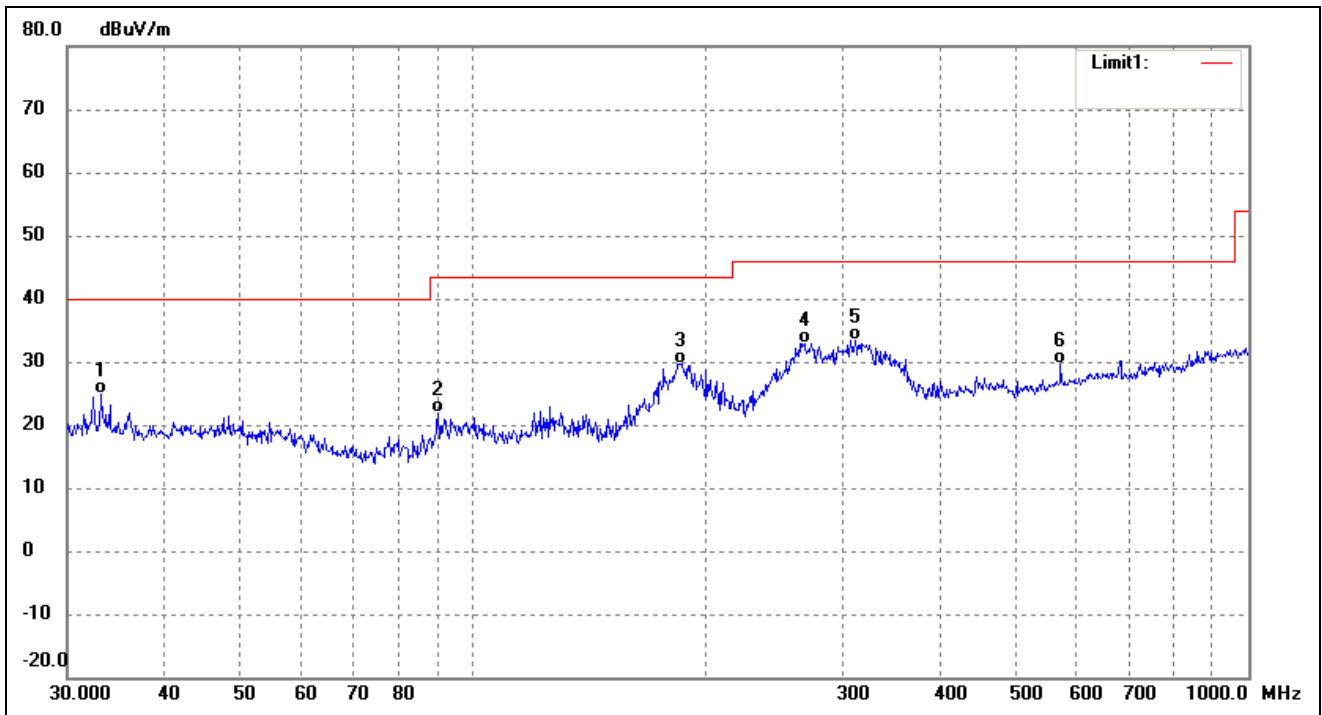
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	32.4059	34.96	-9.58	25.38	40.00	-14.62	-	-	QP
2	94.0979	32.23	-10.23	22.00	43.50	-21.50	-	-	QP
3	183.2005	41.02	-10.20	30.82	43.50	-12.68	-	-	QP
4	274.1939	41.01	-6.13	34.88	46.00	-11.12	-	-	QP
5	313.2760	38.38	-5.39	32.99	46.00	-13.01	-	-	QP
6	919.2866	29.03	3.64	32.67	46.00	-13.33	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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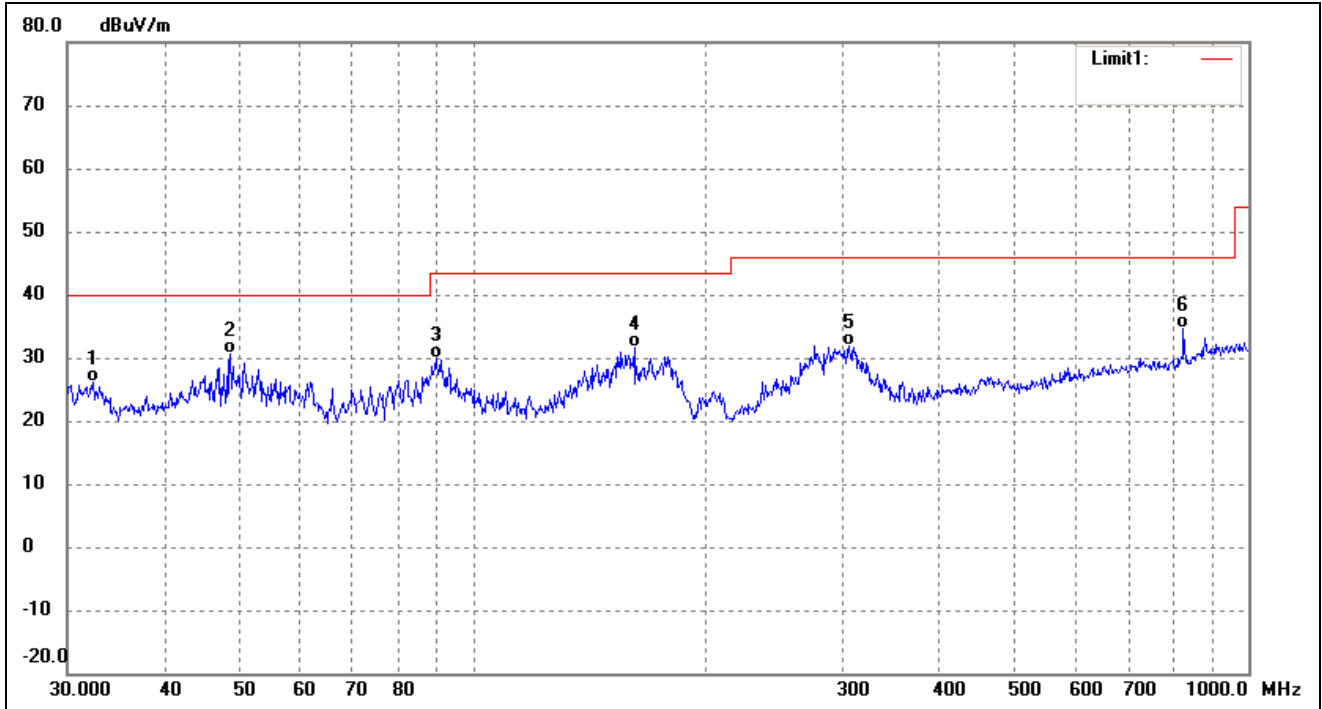
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	48.5016	35.24	-7.98	27.26	40.00	-12.74	-	-	QP
2	72.0843	44.30	-11.78	32.52	40.00	-7.48	-	-	QP
3	88.9639	42.83	-11.45	31.38	43.50	-12.12	-	-	QP
4	178.1327	41.52	-10.70	30.82	43.50	-12.68	-	-	QP
5	302.4812	37.84	-5.60	32.24	46.00	-13.76	-	-	QP
6	597.2234	28.54	-0.92	27.62	46.00	-18.38	-	-	QP

Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	33.2112	34.27	-9.40	24.87	40.00	-15.13	-	-	QP
2	90.2205	33.20	-11.29	21.91	43.50	-21.59	-	-	QP
3	185.1379	39.63	-9.94	29.69	43.50	-13.81	-	-	QP
4	267.5455	39.24	-6.27	32.97	46.00	-13.03	-	-	QP
5	311.0867	38.80	-5.44	33.36	46.00	-12.64	-	-	QP
6	572.6144	30.90	-1.37	29.53	46.00	-16.47	-	-	QP

Test mode:	TM3	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	32.4059	35.81	-9.58	26.23	40.00	-13.77	-	-	QP
2	48.6719	38.49	-7.98	30.51	40.00	-9.49	-	-	QP
3	89.5900	41.37	-11.39	29.98	43.50	-13.52	-	-	QP
4	161.4742	43.29	-11.57	31.72	43.50	-11.78	-	-	QP
5	305.6800	37.40	-5.54	31.86	46.00	-14.14	-	-	QP
6	824.5968	32.64	2.10	34.74	46.00	-11.26	-	-	QP

Remark: '- 'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

## 7. 20dB Emission bandwidth.

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### 7.1 Standard Applicable

According to 15.215,20dB emission bandwidth.

### 7.2 Test Procedure

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

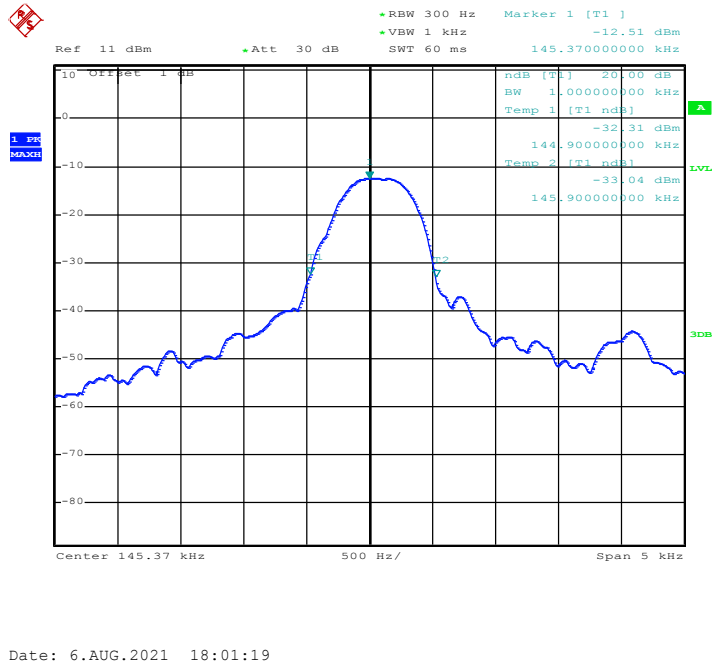
### 7.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

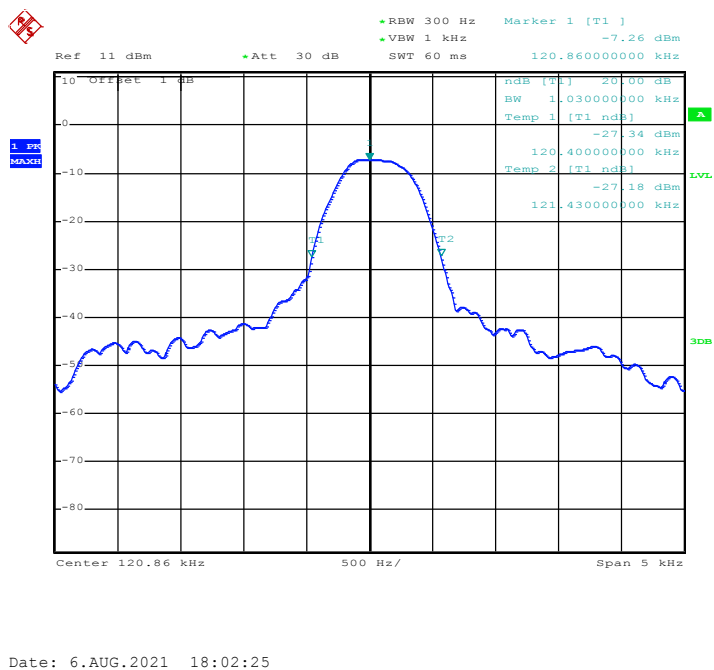
### 7.4 Summary of Test Results/Plots

Test Channel(kHz)	20dB Emission Bandwidth(kHz)
145.37	1.00
120.86	1.03
136.38	1.81

TM1



TM2







## **APPENDIX PHOTOGRAPHS**

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**Please refer to “ANNEX”**

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