

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C REQUIREMENT**

OF

**Applicant:** GadgeTek Inc.  
7F.-5,NO.369,FUXING N.RD.,SONGSHAN DIST.,TAIPEI CITY  
10541,TAIWAN

**Product Name:** Wireless Charging

**Brand Name:** GTI

**Model No.:** GWD901C

**Model Difference:** N/A

**FCC ID:** 2AT5G-GWD901C

**Report Number:** T190313W11-RP

**FCC Rule Part** Part 15C

**Issue Date:** Aug. 12, 2019

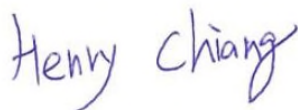
**Date of Test:** May 23, 2019 ~ Aug. 01, 2019

**Date of EUT Received:** May 23, 2019

**Issued by** Compliance Certification Services Inc.Wugu Lab.  
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891,  
Taiwan. (R.O.C.)  
service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.  
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

**Tested By:****Henry Chiang / Engineer****Approved By:****Kevin Tsai / Deputy Manager**

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## Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
T190313W11-RP	Rev.00	Initial creation of document	All	Aug. 12, 2019	Elle Chang

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# 1 GENERAL INFORMATION

## 1.1 Product Description

Product Name:	Wireless Charging
Brand Name:	GTI
Model No.:	GWD901C
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	5Vdc from USB port

Radio Technology:	WPC
Operating Frequency	150.721~208.413 kHz
Transmit Power	79.05 dBuV/m @ 3m
Number of Channels	1
Antenna Type	Wireless Charging Receiver Coil Module
Modulation Type	ASK

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## 1.2 Test Methodology

FCC Part 15, Subpart C

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards..

## 1.3 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,  
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

## 1.4 Special Accessories

There is no special accessory used while test was conducted.

## 1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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- Remark 1. Emission level in dBuV/m=20 log (uV/m)  
:
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.
  3. Distance extrapolation factor =  $40 \log (\text{required distance} / \text{test distance})$  (dB);
  4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.  
Ex.  $20 \cdot \log(30) + 40 \cdot \log(30/3) = 69.54 \text{ dBuV/m}$
  5. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
  6. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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## 2.4 Configuration of Tested System

Fig. 2-1 Emission & Conduction test set up configuration

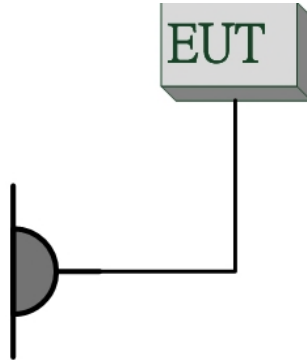


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WPC Test software	Tera Term	N/A	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.215 (c)	20 dB OCCUPIED BANDWIDTH	Compliant
§15.203	Antenna Requirement	Compliant

### 4 DESCRIPTION OF TEST MODES

The EUT stay in continuous transmitting mode. The frequency 125kHz is the default channel to test, where it is the only manipulative channel as this application supports.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode), the worst case H position was reported.

The data rate as the lowest supported is selected while tests are conducted.

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## 5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

**Note:**

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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## 6 CONDUCTED EMISSIONS TEST

### 6.1 Limitation

#### Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

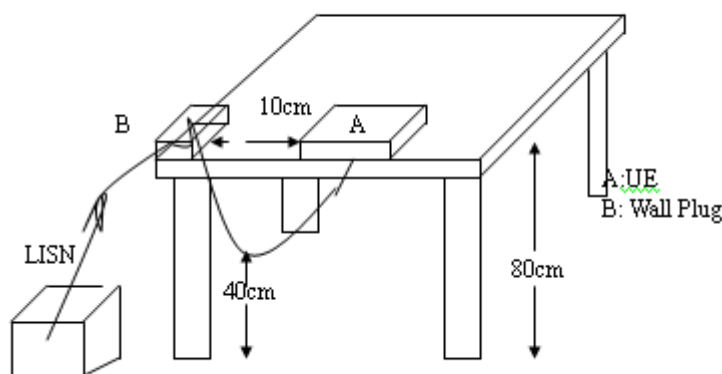
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 6.2 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Sweep frequency starting from 150 kHz to 30 MHz for phase L1.
4. Repeating the measurement as lists above for phase neutral.

### 6.3 Test SET-UP (Block Diagram of Configuration)



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#### 6.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	101203	10/29/2018	10/28/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

#### 6.5 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closet to the limit.

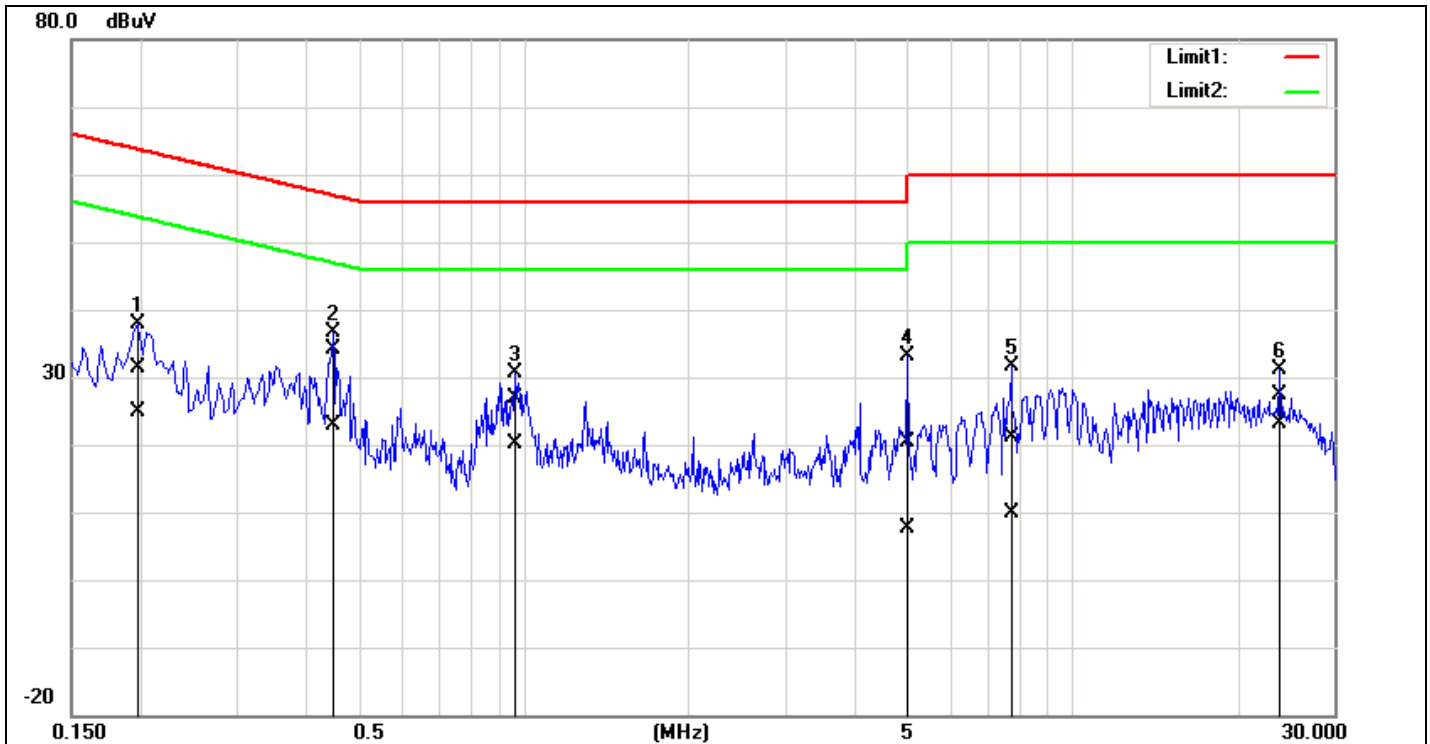
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/7/26
Line:	L1	Temp.(°C)/Hum.(%)	23.7(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Henry



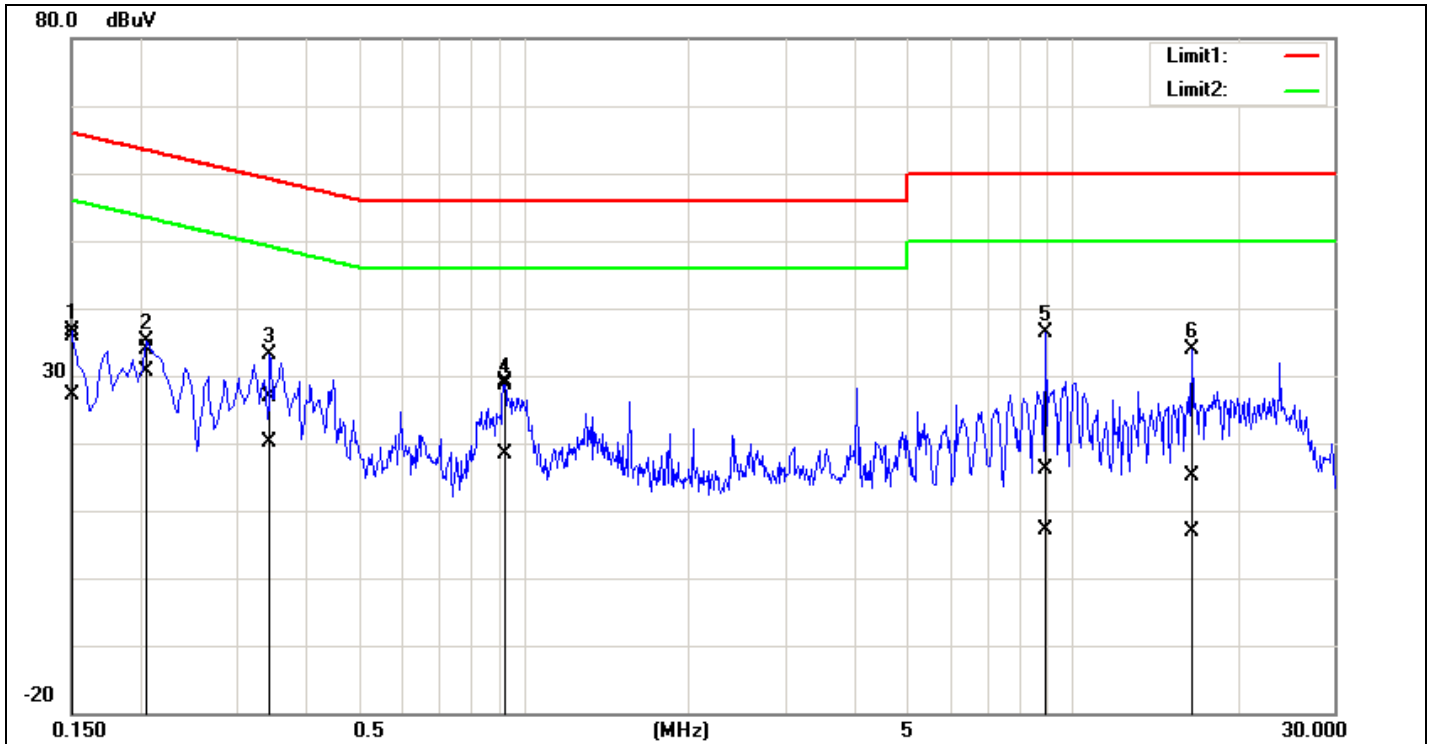
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1980	21.33	14.87	10.13	31.46	25.00	63.69	53.69	-32.23	-28.69	Pass
2*	0.4500	24.11	12.85	10.14	34.25	22.99	56.87	46.88	-22.62	-23.89	Pass
3	0.9660	16.71	9.85	10.17	26.88	20.02	56.00	46.00	-29.12	-25.98	Pass
4	5.0100	10.05	-2.66	10.25	20.30	7.59	60.00	50.00	-39.70	-42.41	Pass
5	7.7380	10.88	-0.48	10.30	21.18	9.82	60.00	50.00	-38.82	-40.18	Pass
6	23.9340	17.16	12.77	10.28	27.44	23.05	60.00	50.00	-32.56	-26.95	Pass

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Description:	Operation	Date:	2019/7/26
Line:	N	Temp.(°C)/Hum.(%):	23.7(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Henry



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	25.93	17.20	10.02	35.95	27.22	65.99	56.00	-30.04	-28.78	Pass
2*	0.2060	23.74	20.51	10.02	33.76	30.53	63.36	53.37	-29.60	-22.84	Pass
3	0.3460	16.75	10.08	10.03	26.78	20.11	59.06	49.06	-32.28	-28.95	Pass
4	0.9260	19.08	8.36	10.04	29.12	18.40	56.00	46.00	-26.88	-27.60	Pass
5	8.9340	5.88	-3.09	10.20	16.08	7.11	60.00	50.00	-43.92	-42.89	Pass
6	16.5180	4.88	-3.50	10.26	15.14	6.76	60.00	50.00	-44.86	-43.24	Pass

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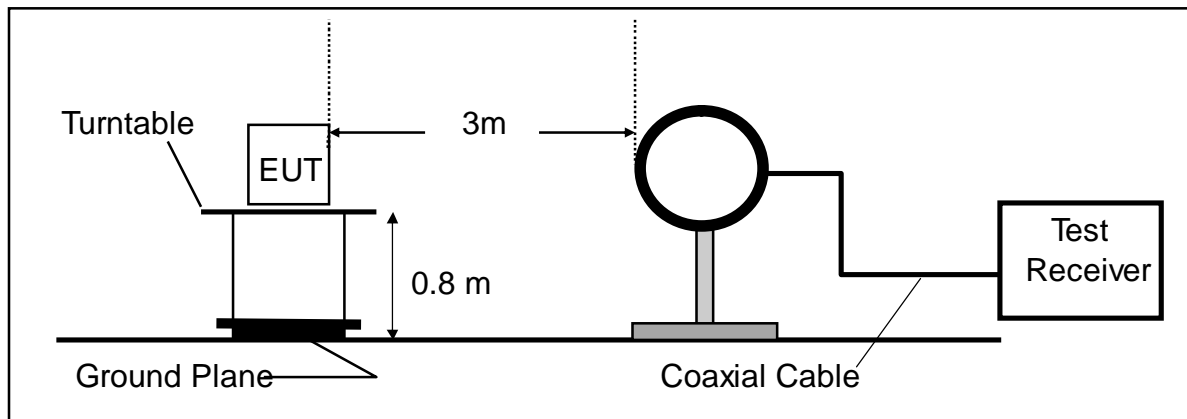
## 7 RADIATED EMISSION TEST

### 7.1 Measurement Procedure

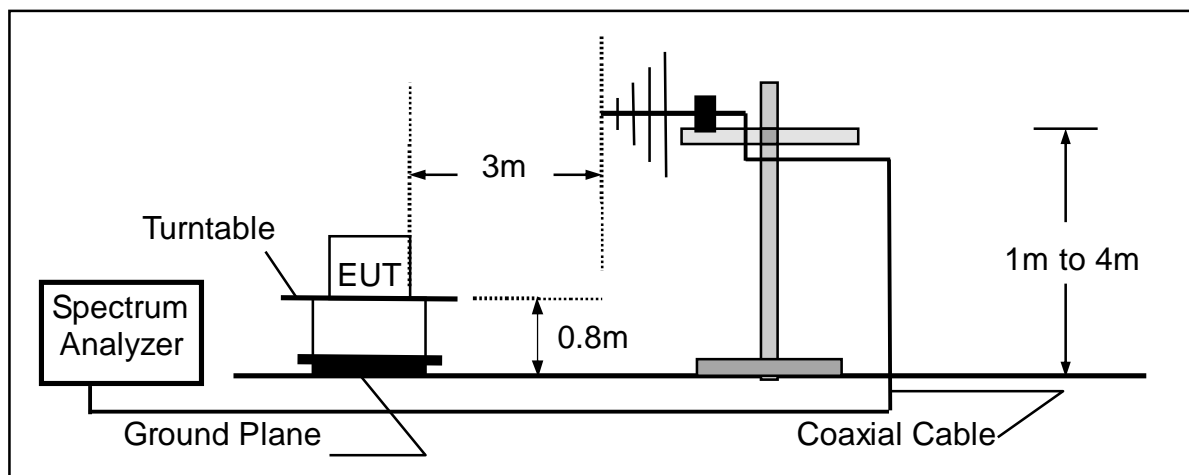
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

### 7.2 Test SET-UP (Block Diagram of Configuration)

#### (A) Radiated Emission Test Set-Up, Frequency Below 30MHz



#### (B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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### 7.3 Measurement Equipment Used:

966A Chamber					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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## 7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

## 7.5 Field Strength of Fundamental Emission

### 7.5.1 Limit

#### Below 30MHz

Frequency (MHz)	Limit (μV/m)	Measurement distance (meters)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-Peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-Peak Value
1.705-30.0	30	30	Quasi-Peak Value

#### Above 30MHz

Frequency (MHz)	Limit (dBμV/m @3m)	Remark
30-88	40	Quasi-Peak Value
88-216	43.5	Quasi-Peak Value
216-960	46	Quasi-Peak Value
Above 960	54	Quasi-Peak Value
Above 1GHz	54	Average Value
	74	Peak Value

#### Note:

- The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.  $Ex. 20 \cdot \log(30) + 40 \cdot \log(30/3) = 69.54 \text{ dBuV/m}$
- 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 and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- Actual  $FS(\text{dB}\mu\text{V/m}) = \text{Spectrum. Reading level}(\text{dB}\mu\text{V}) + \text{Factor}(\text{dB})$   
 $\text{Factor}(\text{dB}) = \text{Antenna Factor}(\text{dB}\mu\text{V/m}) + \text{Cable Loss}(\text{dB}) - \text{Pre\_Amplifier Gain}(\text{dB})$

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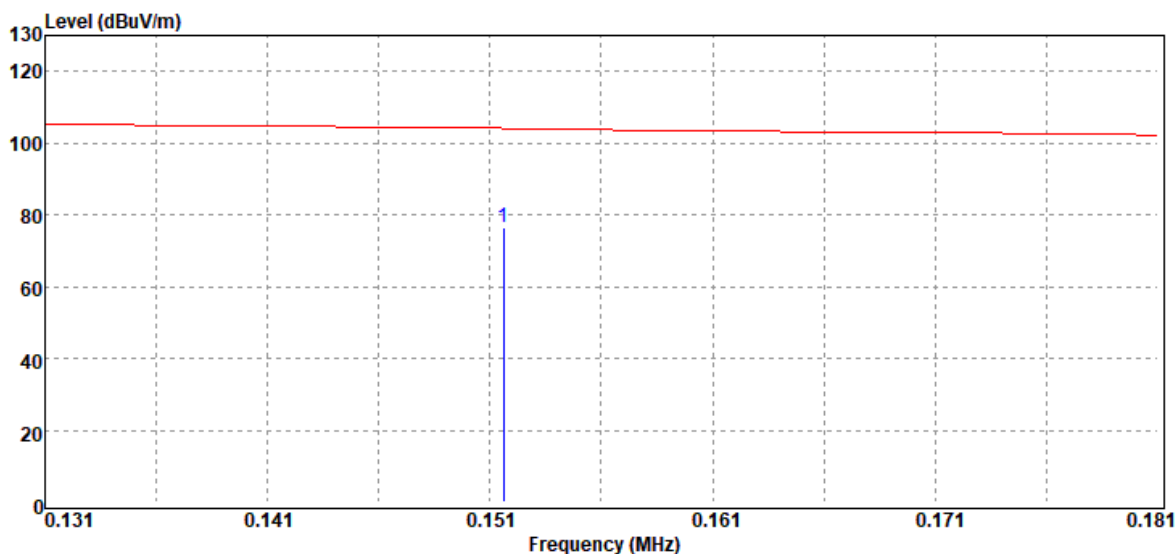
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## 7.5.2 Below 30 MHz test result

Project Number	:T190313W11	Test Date	:2019-07-29
Operation Band	:WPC	Temp./Humi.	:26.3/43
Fundamental Frequency	:156K Hz	Engineer	:Kailin
Operation Mode	:Main CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
0.15	Peak	62.70	13.68	76.38	103.99	-27.61

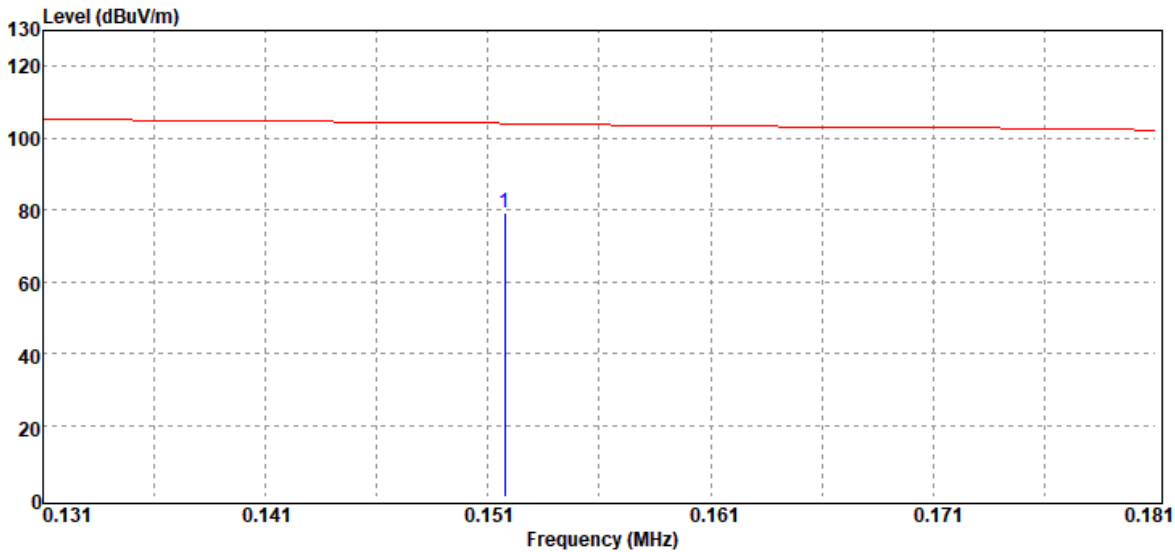
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Project Number :T190313W11  
 Operation Band :WPC  
 Fundamental Frequency :156K Hz  
 Operation Mode :Main CH Mid  
 EUT Pol. :E2 Plan

Test Date :2019-07-29  
 Temp./Humi. :26.3/43  
 Engineer :Kailin  
 Measurement Antenna Pol. :HORIZONTAL



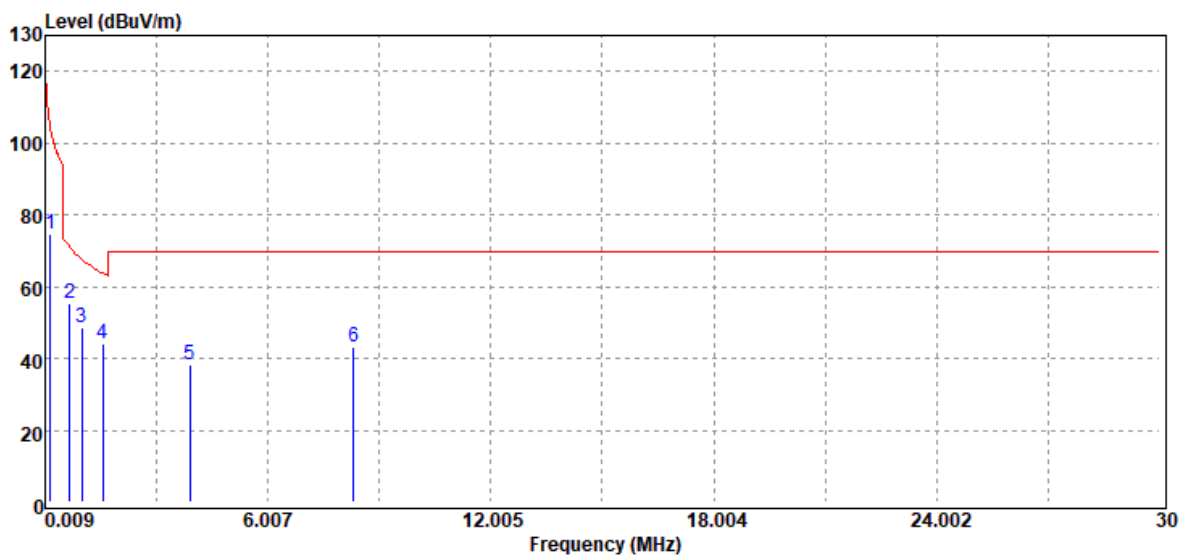
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
0.15	Peak	65.37	13.68	79.05	103.99	-24.94

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Project Number	:T190313W11	Test Date	:2019-07-29
Operation Band	:WPC	Temp./Humi.	:26.3/43
Fundamental Frequency	:156 KHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



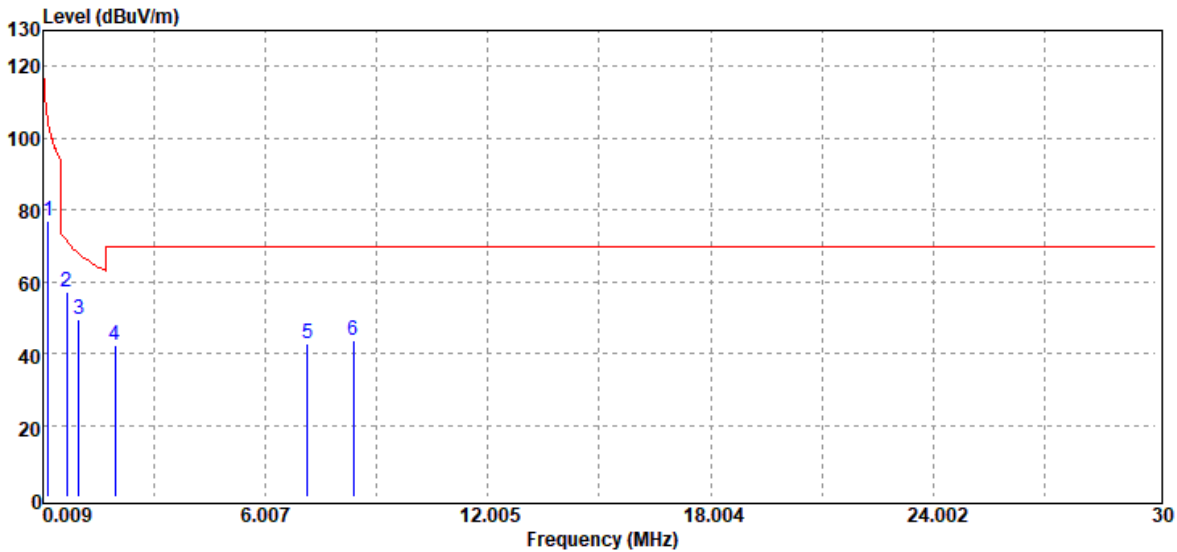
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
0.16	Peak	60.76	13.73	74.49	103.58	-29.09
0.67	Peak	40.62	14.50	55.12	71.11	-15.99
1.00	Peak	33.89	14.69	48.58	67.61	-19.03
1.57	Peak	29.03	14.84	43.87	63.70	-19.83
3.91	Peak	23.08	15.21	38.29	69.54	-31.25
8.32	Peak	27.24	15.95	43.19	69.54	-26.35

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Project Number	:T190313W11	Test Date	:2019-07-29
Operation Band	:WPC	Temp./Humi.	:26.3/43
Fundamental Frequency	:156 KHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
0.16	Peak	63.14	13.73	76.87	103.58	-26.71
0.64	Peak	42.47	14.49	56.96	71.50	-14.54
0.97	Peak	34.80	14.67	49.47	67.88	-18.41
1.96	Peak	27.50	14.92	42.42	69.54	-27.12
7.15	Peak	27.19	15.77	42.96	69.54	-26.58
8.38	Peak	27.79	15.96	43.75	69.54	-25.79

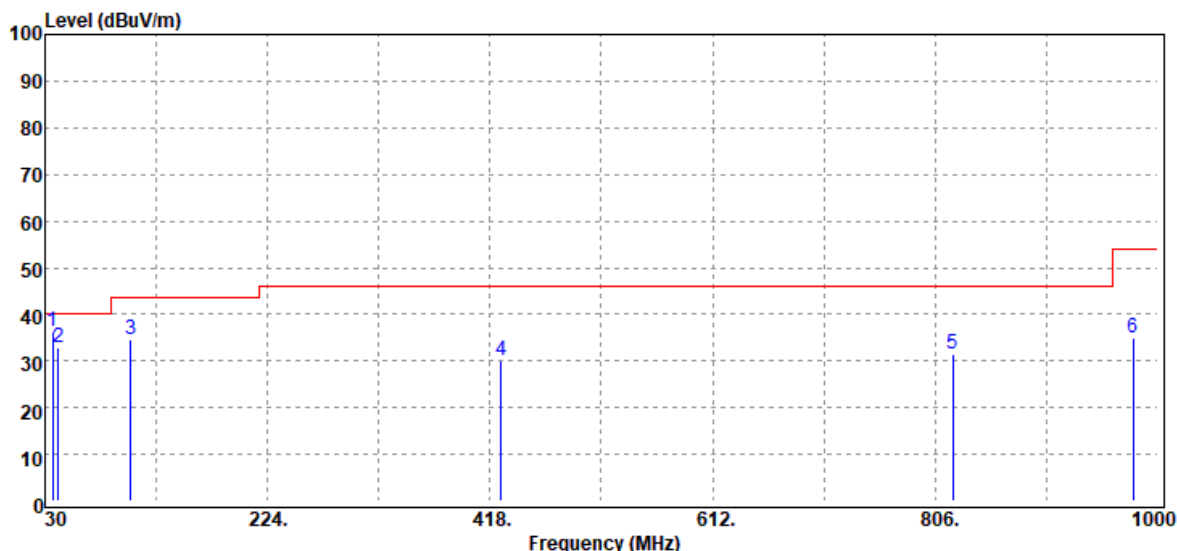
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### 7.5.3 Above 30MHz test result

Project Number	:T190313W11	Test Date	:2019-07-29
Operation Band	:WPC	Temp./Humi.	:26.3/43
Fundamental Frequency	:156 KHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



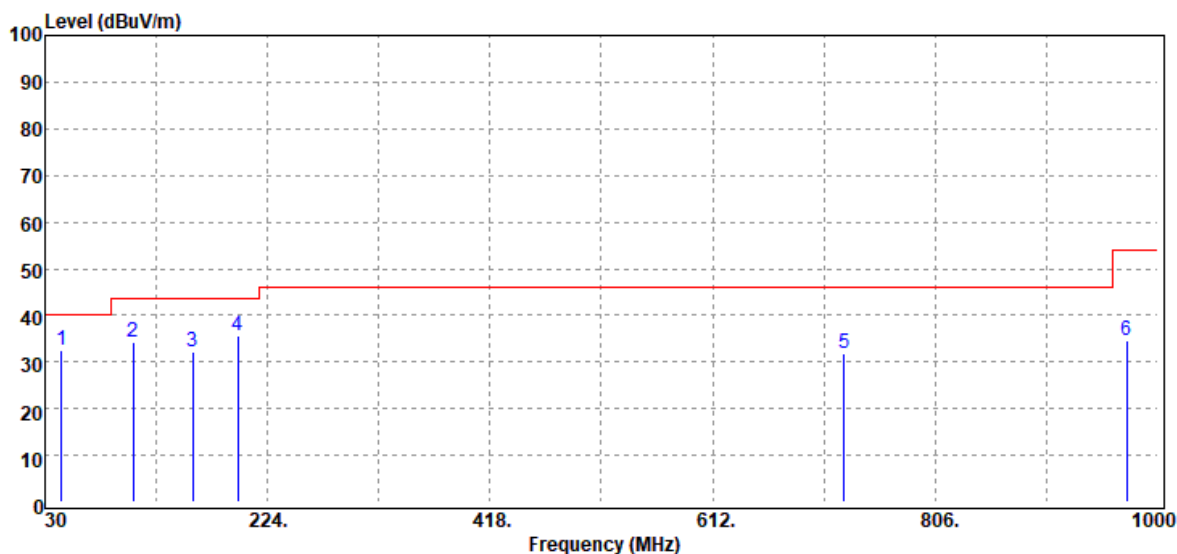
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
36.79	Peak	43.45	-7.08	36.37	40.00	-3.63
41.64	Peak	43.40	-10.69	32.71	40.00	-7.29
104.69	Peak	45.62	-11.18	34.44	43.50	-9.06
427.70	Peak	34.69	-4.43	30.26	46.00	-15.74
821.52	Peak	28.76	2.89	31.65	46.00	-14.35
978.66	Peak	29.40	5.60	35.00	54.00	-19.00

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Project Number	:T190313W11	Test Date	:2019-07-29
Operation Band	:WPC	Temp./Humi.	:26.3/43
Fundamental Frequency	:156 KHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
44.55	Peak	45.22	-12.72	32.50	40.00	-7.50
106.63	Peak	45.18	-10.81	34.37	43.50	-9.13
159.01	Peak	42.03	-9.95	32.08	43.50	-11.42
197.81	Peak	45.11	-9.46	35.65	43.50	-7.85
726.46	Peak	31.00	0.86	31.86	46.00	-14.14
972.84	Peak	29.07	5.56	34.63	54.00	-19.37

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## 8 20 dB OCCUPIED BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable:

§2.1049 & §15.215 (c)

### 8.2 Limit:

None

### 8.3 Test Set-up

Refer to section 6.2 in this report

### 8.4 Measurement Procedure

20dB bandwidth

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 200 Hz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

### 8.5 Measurement Equipment Used:

Refer to section 8.3 in this report

### 8.6 Measurement Result

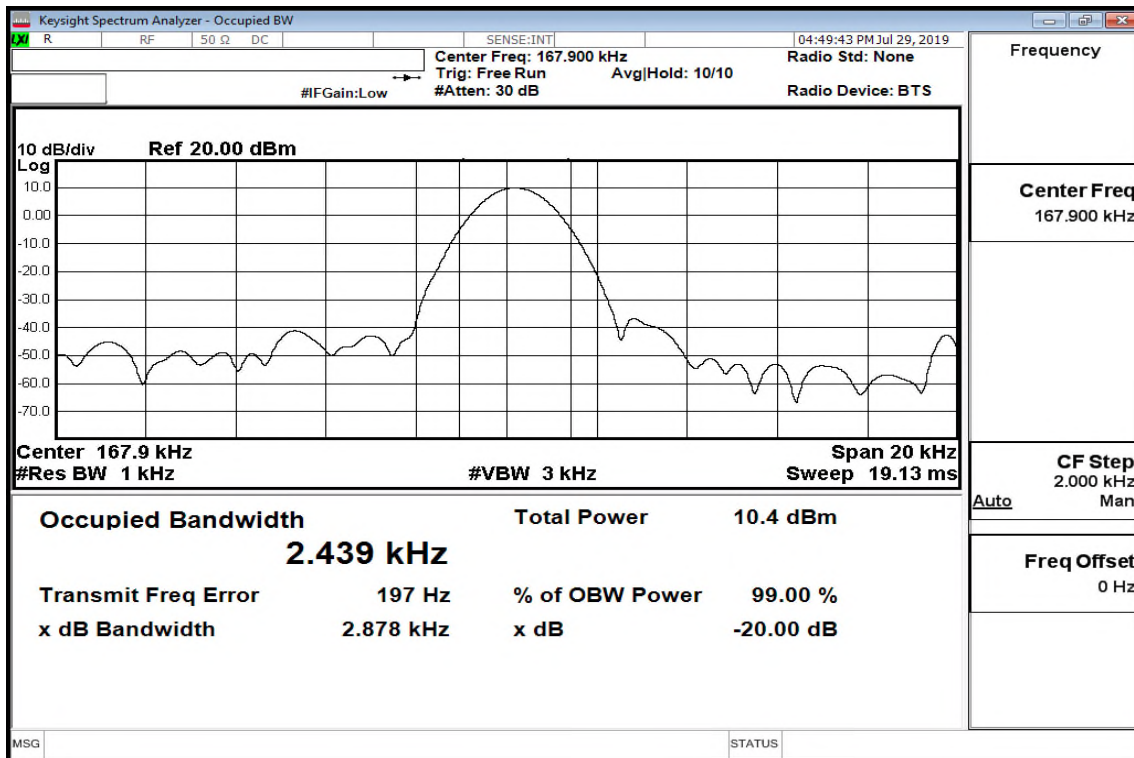
#### -20dB Bandwidth

20dB Bandwidth	Limit
2.878kHz	No requirement

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## 9 ANTENNA REQUIREMENT

### 9.1 Standard Applicable:

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

### 9.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

*~ End of Report ~*

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