

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Channel Well Technology Co., Ltd
No.222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan
County 338, Taiwan, R. O. C

Product Name: Wireless Charger

Brand Name: CWT

Model No.: WTM1B15

Model Difference: N/A

FCC ID: 2AC3UWTM1B15

Report Number: ER/2020/30155

FCC Rule Part Part 15C

Issue Date: Oct. 23, 2020

Date of Test: Jun. 17, 2020 ~ Jul. 17, 2020, Oct. 23, 2020

Date of EUT Received: Apr. 23, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab .The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C.

The test results of this report relate only to the tested sample identified in this report.

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/30155	Rev.00	Original.	Oct. 23, 2020	Revised By: Violetta Tang

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Wireless Charger	
Brand Name:	CWT	
Model No.:	WTM1B15	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	19V from AC/DC Adapter	
	Adapter:	Model No.: HKA12019063-6C, Supplier: HuntKey.

WPC

Operating Frequency	127kHz
Transmit Power	< 80.11dBuV/m at 3m.
Number of Channels	1
Antenna Type	Coil Antenna
Modulation Type	ASK

This report complies with FCC regulatory radio rule with respect to WPC that operates on 127 kHz.

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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

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

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 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. 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 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.

2.3.3 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

- Remark:
1. Emission level in dBuV/m = $20 \log (\mu\text{V/m})$
 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.
 $\text{Ex. } 20 * \log(30) + 40 * \log(30/3) = 69.54 \text{ dBuV/m}$
 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 Conduction & Radiated Emission Test Setup Configuration

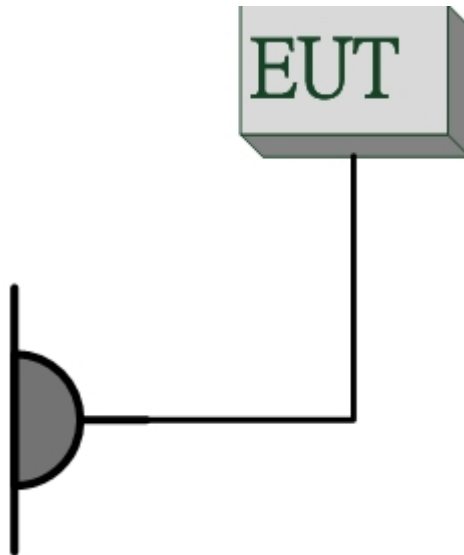


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WPC Test Software	N/A	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 127 kHz 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

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Frequency Stability	+/- 123.36 Hz
20 dB OCCUPIED BANDWIDTH	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +/-2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +/-2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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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.		

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.009 to 0.050	110	--
0.050 to 0.1485	90 Decreasing linearly with logarithm of frequency to 80	--
0.1485 to 0.5	66 Decreasing linearly with logarithm of frequency to 56	56 Decreasing linearly with logarithm of frequency to 46
0.50 to 5	56	46
5 to 30	60	50
Note The mains terminal disturbance limits for a 100/110 V rated system are under consideration		

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.

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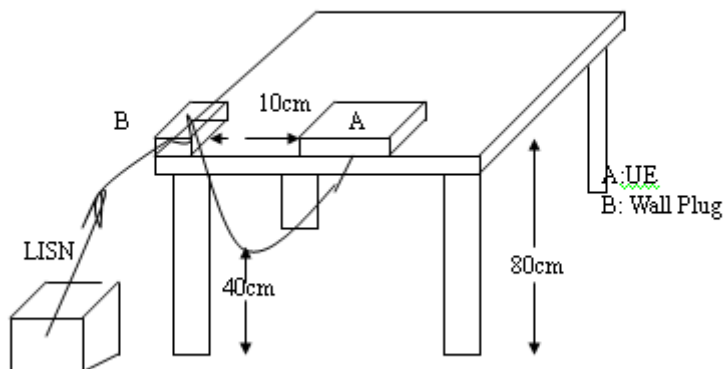
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6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	07/04/2019	07/03/2020
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2020	04/08/2021
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2019	12/06/2020
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required.

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

Report Number :ER-2020-30155

Test Date :2020-06-17

Test Mode :WPC

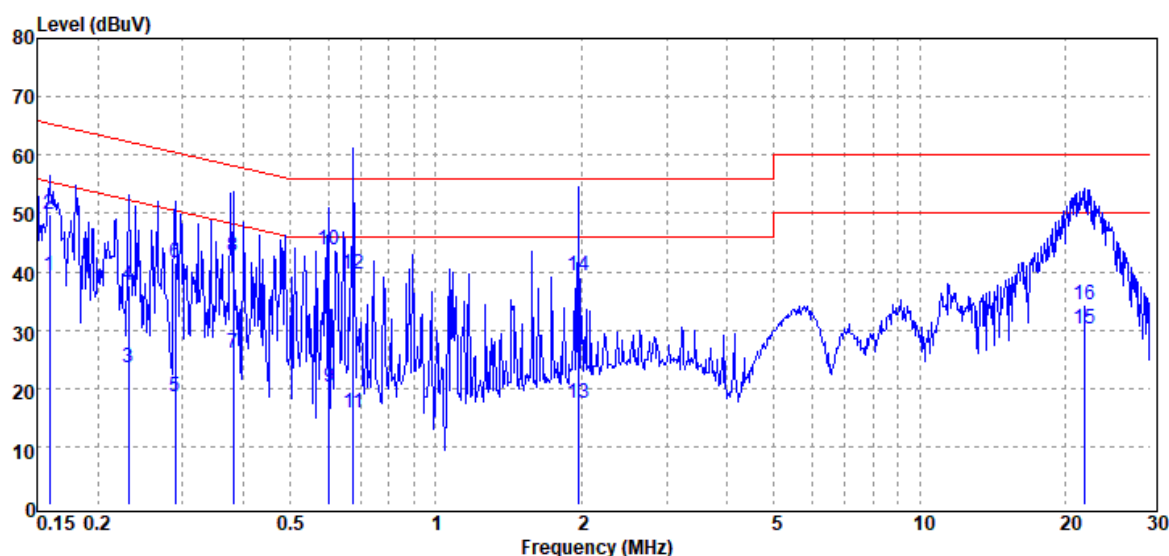
Temp./Humi. :26.0/58

Power :AC 120V/60Hz

Engineer :Nick

Probe :L

:



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Average	37.20	2.14	39.34	55.52	-16.18
0.16	QP	47.70	2.14	49.84	65.52	-15.68
0.23	Average	21.34	2.14	23.48	52.39	-28.91
0.23	QP	35.60	2.14	37.74	62.39	-24.65
0.29	Average	16.30	2.15	18.45	50.54	-32.09
0.29	QP	39.40	2.15	41.55	60.54	-18.99
0.38	Average	23.80	2.15	25.95	48.25	-22.30
0.38	QP	40.50	2.15	42.65	58.25	-15.60
0.60	Average	18.00	2.16	20.16	46.00	-25.84
0.60	QP	41.70	2.16	43.86	56.00	-12.14
0.68	Average	13.70	2.17	15.87	46.00	-30.13
0.68	QP	37.30	2.17	39.47	56.00	-16.53
1.97	Average	15.20	2.26	17.46	46.00	-28.54
1.97	QP	37.00	2.26	39.26	56.00	-16.74
21.95	Average	26.90	3.16	30.06	50.00	-19.94

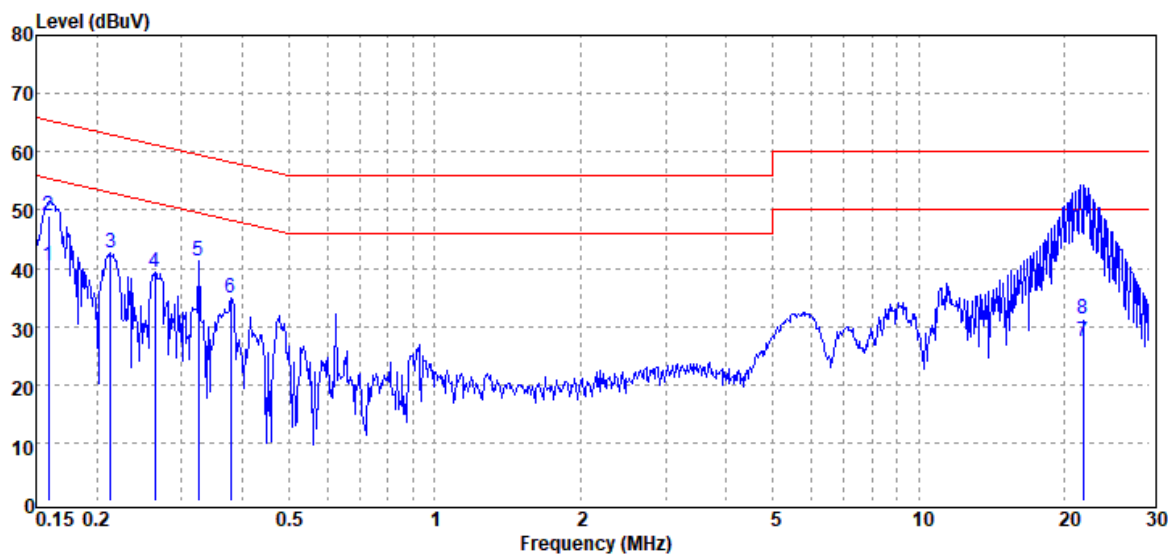
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Report Number :ER-2020-30155
Test Mode :WPC
Power :AC 120V/60Hz
Probe :N

Test Date :2020-06-17
Temp./Humi. :26.0/58
Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV	Limit dBUV	Margin dB
0.16	Average	38.10	2.21	40.31	55.52	-15.21
0.16	QP	46.80	2.21	49.01	65.52	-16.51
0.21	Peak	40.42	2.21	42.63	63.05	-20.42
0.26	Peak	37.12	2.21	39.33	61.29	-21.96
0.33	Peak	39.03	2.21	41.24	59.57	-18.33
0.38	Peak	32.71	2.21	34.92	58.30	-23.38
21.83	Average	24.20	3.12	27.32	50.00	-22.68
21.83	QP	28.10	3.12	31.22	60.00	-28.78

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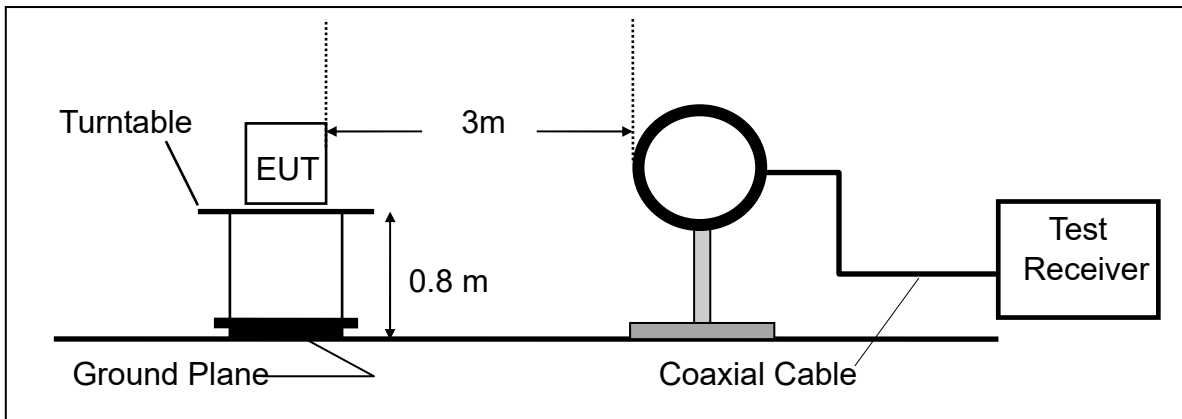
7 RADIATED EMISSION TEST

7.1 Measurement Procedure

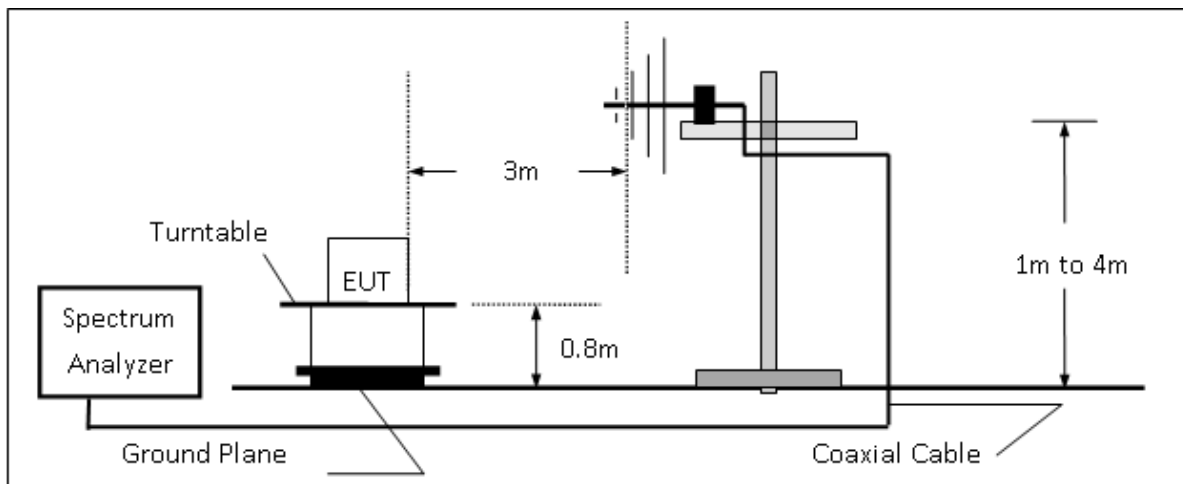
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966 RX	9	01/02/2020	01/01/2021

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	

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7.5 Field Strength of Fundamental Emission

7.5.1 Limit

Below 30MHz

Frequency (MHz)	Limit ($\mu\text{V/m}$)	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 ($\text{dB}\mu\text{V/m}$ @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. $\text{Ex. } 20 \cdot \log(30) + 40 \cdot \log(30/3) = 69.54 \text{ dB}\mu\text{V/m}$
- 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($\text{dB}\mu\text{V/m}$) = Spectrum. Reading level($\text{dB}\mu\text{V}$) + Factor(dB)
Factor(dB) = Antenna Factor($\text{dB}\mu\text{V/m}$) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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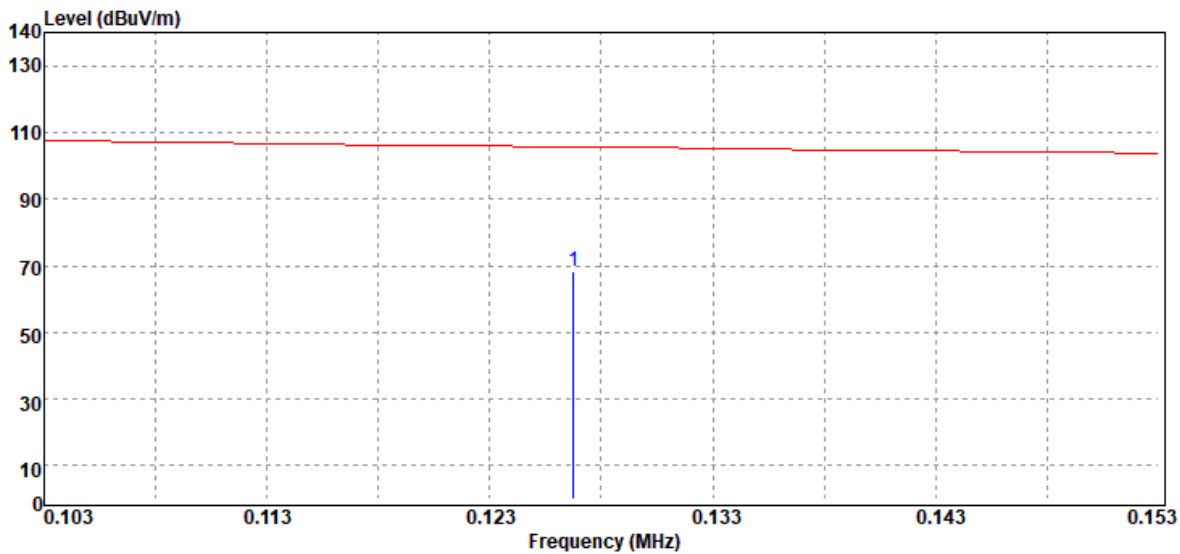
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7.5.2 Below 30 MHz test result

Report Number :ER-2020-30155
Operation Mode :WPC
Test Frequency :127 KHz
Test Mode :Main
EUT Pol :H Plane

Test Date :2020-06-17
Temp./Humi. :25.2/63
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
0.12675	Peak	57.77	10.51	68.28	105.55	-37.27

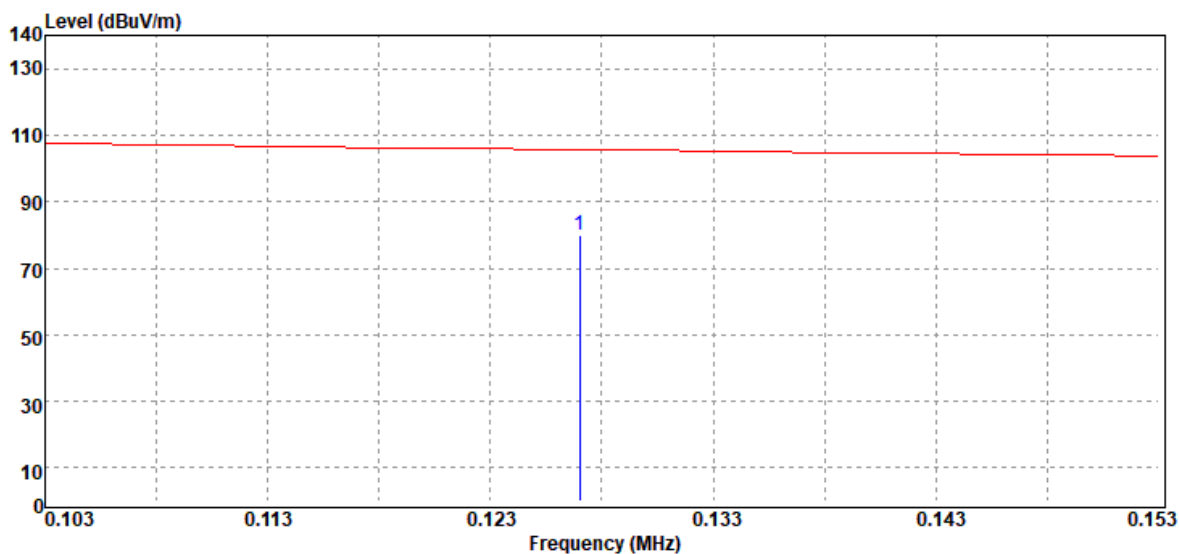
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Report Number :ER-2020-30155
Operation Mode :WPC
Test Frequency :127 KHz
Test Mode :Main
EUT Pol :H Plane

Test Date :2020-06-17
Temp./Humi. :25.2/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
0.127	Peak	69.60	10.51	80.11	105.53	-25.42

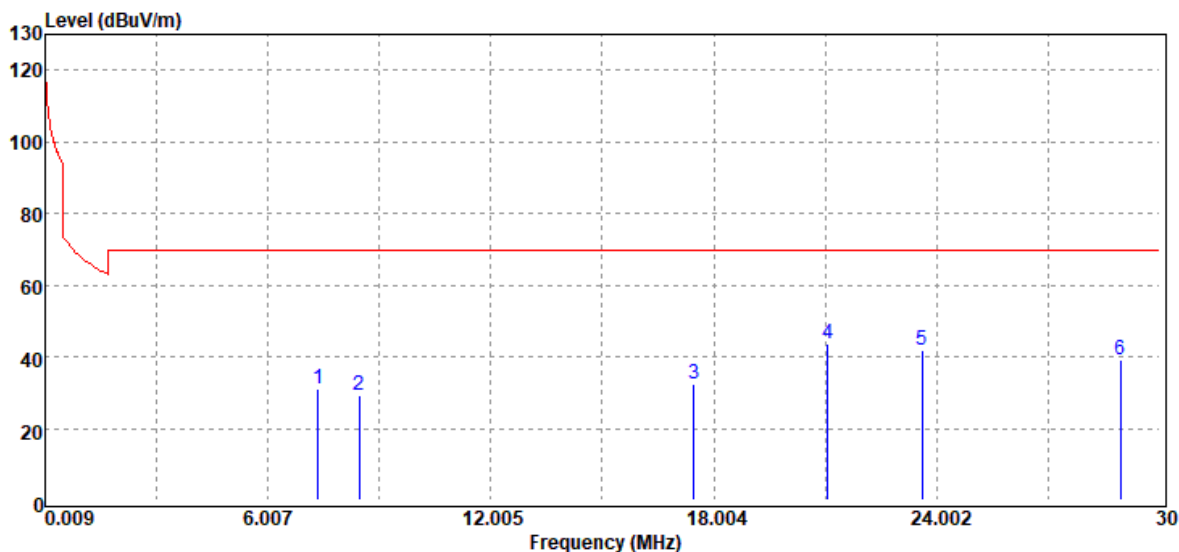
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Report Number :ER-2020-30155
Operation Mode :WPC
Test Frequency :127 KHz
Test Mode :Tx
EUT Pol :H Plane

Test Date :2020-06-17
Temp./Humi. :25.2/63
Antenna Pol. :VERTICAL
Engineer :Nick



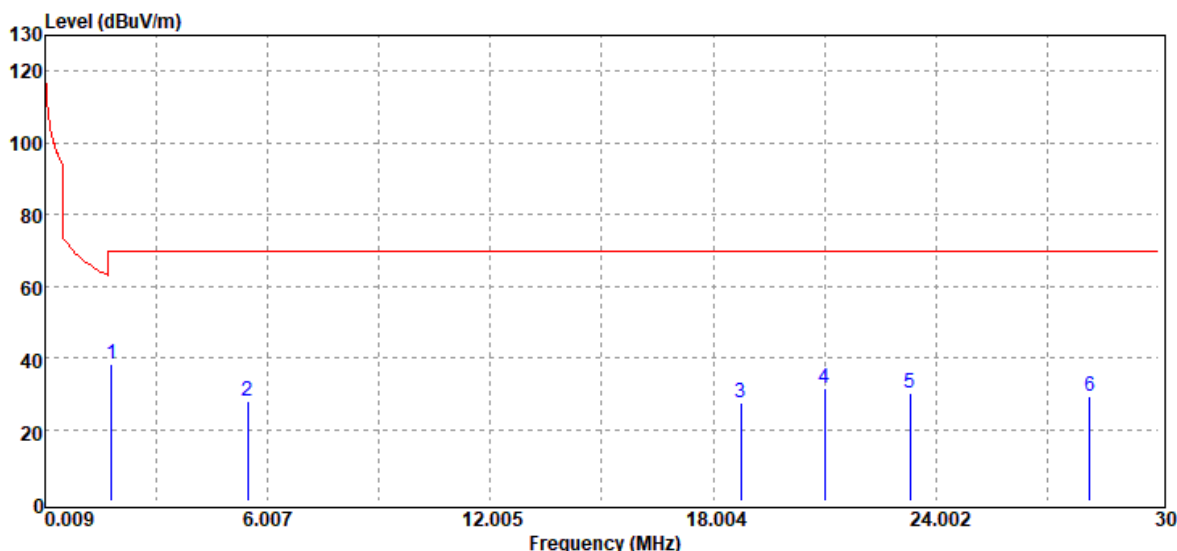
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7.36	Peak	19.28	11.67	30.95	69.54	-38.59
8.47	Peak	17.40	11.84	29.24	69.54	-40.30
17.46	Peak	21.42	11.10	32.52	69.54	-37.02
21.06	Peak	33.18	10.60	43.78	69.54	-25.76
23.61	Peak	31.71	9.99	41.70	69.54	-27.84
28.95	Peak	30.43	8.89	39.32	69.54	-30.22

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Report Number :ER-2020-30155
Operation Mode :WPC
Test Frequency :127 KHz
Test Mode :Tx
EUT Pol :H Plane

Test Date :2020-06-17
Temp./Humi. :25.2/63
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1.81	Peak	26.80	11.28	38.08	69.54	-31.46
5.47	Peak	16.66	11.30	27.96	69.54	-41.58
18.75	Peak	16.28	10.98	27.26	69.54	-42.28
21.00	Peak	20.67	10.61	31.28	69.54	-38.26
23.31	Peak	20.16	10.06	30.22	69.54	-39.32
28.14	Peak	20.04	9.05	29.09	69.54	-40.45

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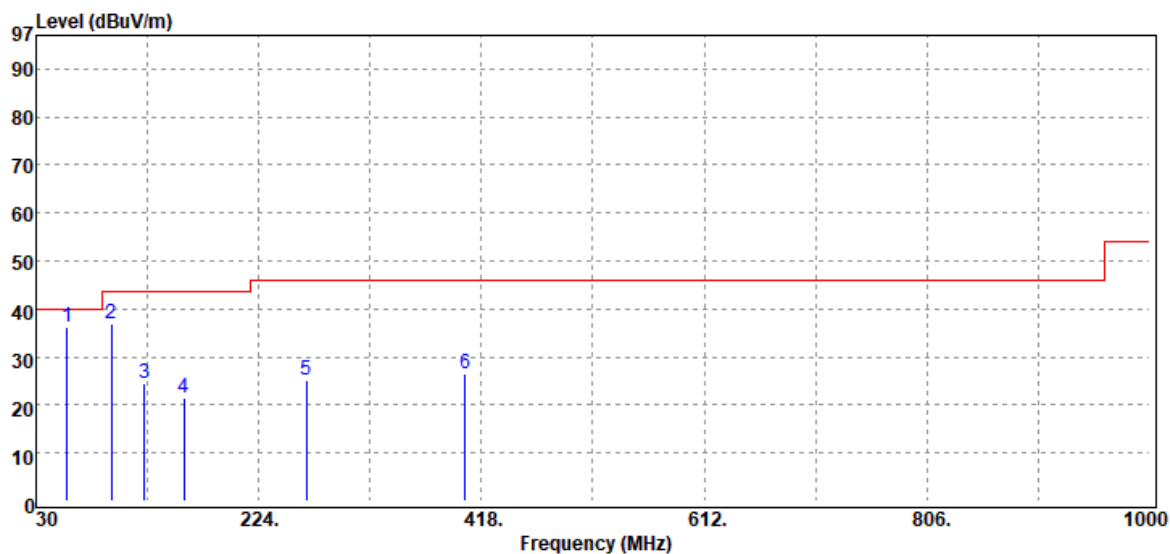
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7.5.3 Above 30MHz test result

Report Number :ER-2020-30155
 Operation Mode :WPC
 Test Frequency :127 KHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Date :2020-06-17
 Temp./Humi. :25.2/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.16	Peak	44.91	-8.53	36.38	40.00	-3.62
95.96	Peak	50.69	-13.72	36.97	43.50	-6.53
124.09	Peak	33.84	-9.30	24.54	43.50	-18.96
159.01	Peak	28.94	-7.34	21.60	43.50	-21.90
265.71	Peak	32.59	-7.25	25.34	46.00	-20.66
403.45	Peak	30.85	-4.37	26.48	46.00	-19.52

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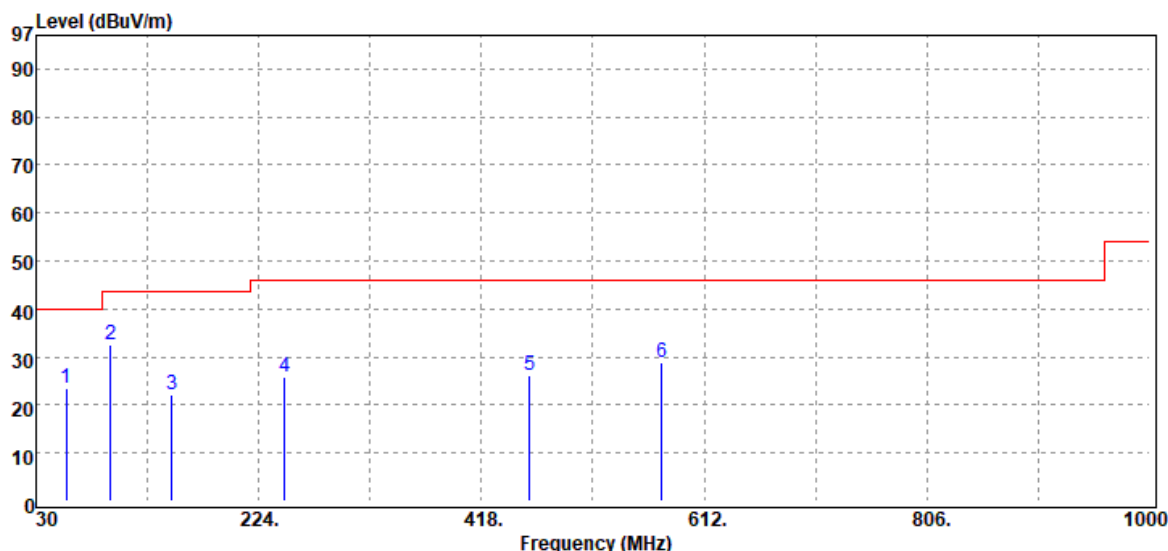
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Report Number :ER-2020-30155
Operation Mode :WPC
Test Frequency :127 KHz
Test Mode :Tx
EUT Pol :H Plane

Test Date :2020-06-17
Temp./Humi. :25.2/63
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	31.96	-8.51	23.45	40.00	-16.55
94.99	Peak	46.35	-13.83	32.52	43.50	-10.98
148.34	Peak	29.62	-7.41	22.21	43.50	-21.29
246.31	Peak	33.91	-7.99	25.92	46.00	-20.08
459.71	Peak	28.62	-2.39	26.23	46.00	-19.77
575.14	Peak	29.18	-0.47	28.71	46.00	-17.29

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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 7.2 in this report

8.4 Measurement Procedure

20dB bandwidth

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set the EUT stay in continuous transmitting mode.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
The domain al IF filter bandwidth (3dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto;
Detector function = peak
4. Set SPA trace 1 Max hold, then view.

8.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

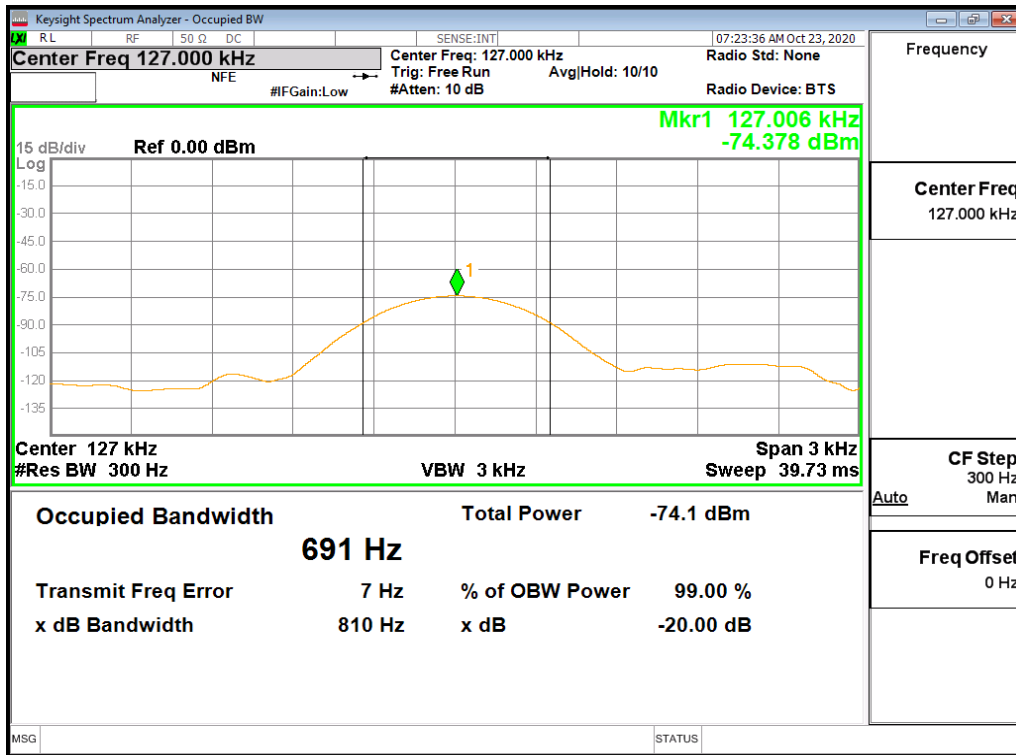
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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8.6 Measurement Result

-20dB Bandwidth



20dB Bandwidth	Limit
810 Hz	No requirement

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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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