



Test Report

Date : 2020-09-21

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No. : HMD20090010

Applicant : Flybar, Inc.
88 Industrial Ct., Freehold, NJ 07728, United States

Supplier / Manufacturer : Flybar, Inc.
88 Industrial Ct., Freehold, NJ 07728, United States

Description of Sample(s) : Submitted sample(s) said to be
Product: Power Gearz My First RC: Racer
Brand Name: Power Gearz
Model No.: PGRC1-R
FCC ID: 2AXWW-PGRC1-49HMZ

Date Samples Received : 2020-09-14

Date Tested : 2020-09-16 to 2020-09-17

Investigation Requested : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10: 2013 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : For additional model(s) details, please see page 3.



LEUNG Kwun Hang, Joey
Authorized Signatory

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1.0 General Details

1.1 Equipment Under Test [EUT]

Description of Sample(s)

Product:	Power Gearz My First RC: Racer
Manufacturer:	Flybar, Inc. 88 Industrial Ct., Freehold, NJ 07728, United States
Brand Name:	Power Gearz
Model Number:	PGRC1-R
Additional Model Number:	PGRC1-P (Power Gearz My First RC: Police)
Rating:	3.0Vd.c. (AA battery*2)

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Remote control. Operating at 49.86MHz. Test was conducted under Tx mode.

1.2 RF Module Details

Module Model Number:	N/A
Module FCC ID:	N/A
Modulation:	ASK
Frequency Range:	49.86MHz

1.3 Antenna Details

Antenna Type:	Line antenna
Antenna Gain:	0dBi

1.4 Date of Order

2020-09-14

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2020-09-16 to 2020-09-17

1.7 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10: 2013 for FCC Certification.
The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.235	ANSI C63.10: 2013	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	☒	☐	☐
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐
20dB Emission bandwidth	FCC 47CFR 15.215(c)	ANSI C63.10: 2013	N/A	☒	☐	☐

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 – 1000MHz)

Test Requirement:	FCC 47CFR 15.235
Test Method:	ANSI C63.10:2013
Test Date:	2020-09-16
Mode of Operation:	Tx mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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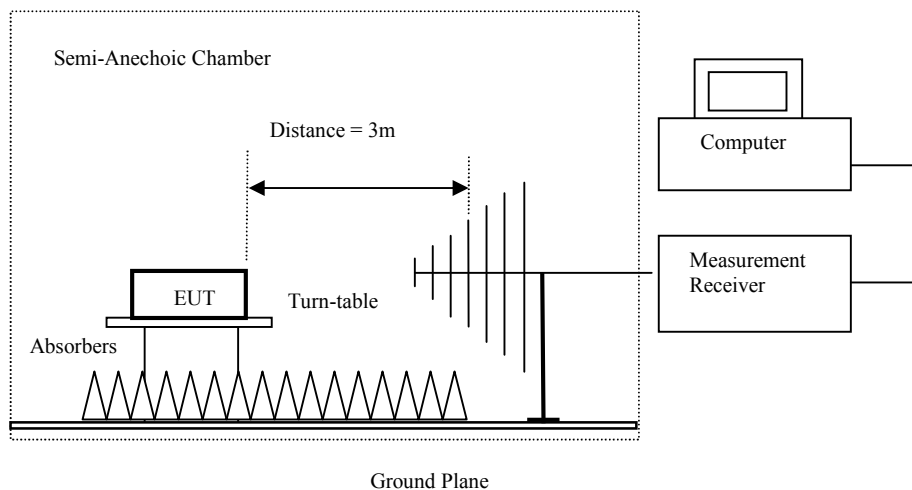
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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: 10kHz
	VBW: 30kHz
	Sweep: Auto
	Span: Fully capture the emissions being measured
	Trace: Max. hold
30MHz – 1GHz (QP)	RBW: 120kHz
	VBW: 120kHz
	Sweep: Auto
	Span: Fully capture the emissions being measured
	Trace: Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.235]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μV/m]	Field Strength of Harmonics Emission [Average] [μV/m]
49.82-49.90	100,000	10,000

Results of Tx mode(30MHz-1GHz): PASS

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
49.86	71.3	-4.2	75.5	5,949.8	100,000	Vertical
49.86	59.3	-4.2	63.5	1,489.4	100,000	Horizontal

Field Strength of Fundamental Emissions Average						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
49.86	67.2	-4.2	71.3	3,681.3	10,000	Vertical
49.86	55.1	-4.2	59.3	921.5	10,000	Horizontal

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: (9kHz-30MHz): 2.0dB
(30MHz -1GHz): 4.9dB
(1GHz -6GHz): 4.02dB
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

Results of TX mode (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the limit line(s).

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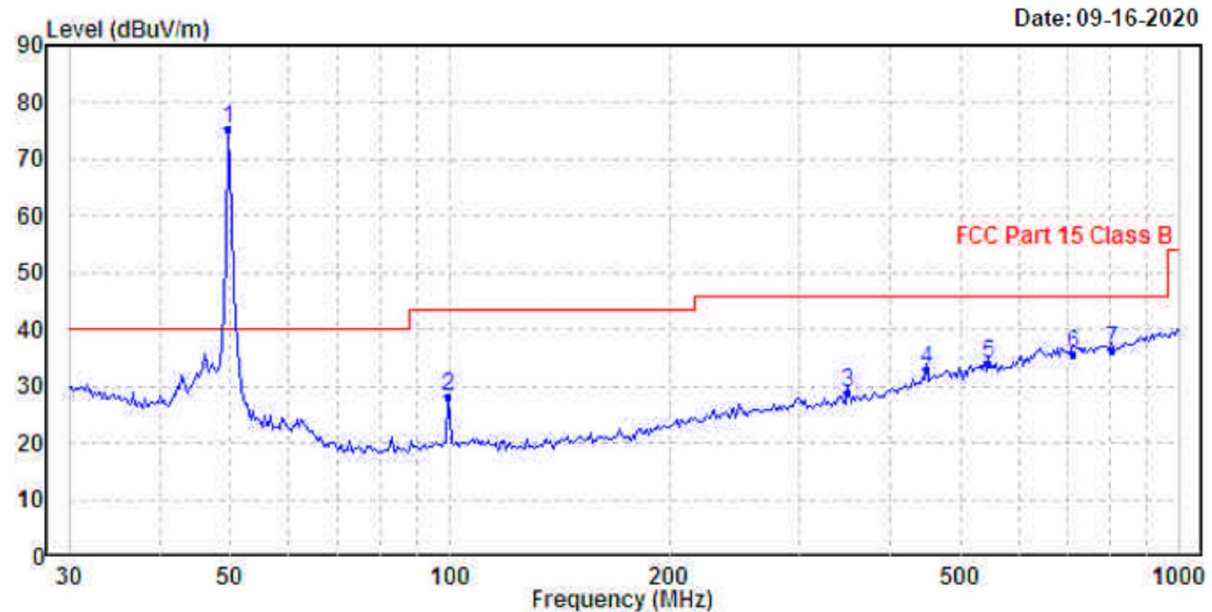
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Results of TX mode (30MHz – 1GHz): PASS

Please refer to the following table for result details(The data is the worst cases)
Horizontal



Ambient Temperature: 25C
Relative Humidity : 50%

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	49.707	75.49	-----	-----	Peak	Vertical
2	99.528	28.12	43.50	-15.38	QP	Vertical
3	349.250	29.02	46.00	-16.98	QP	Vertical
4	449.556	33.11	46.00	-12.89	QP	Vertical
5	547.098	33.96	46.00	-12.04	QP	Vertical
6	714.173	35.69	46.00	-10.31	QP	Vertical
7	804.603	36.41	46.00	-9.59	QP	Vertical

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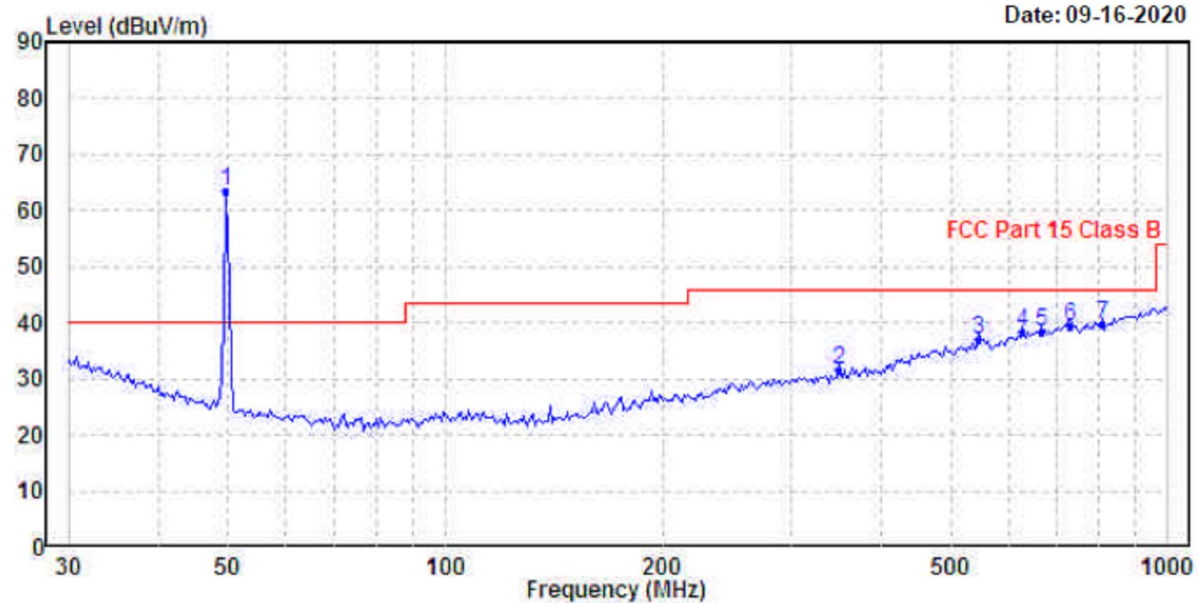
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Results of TX mode (30MHz – 1GHz): PASS

Please refer to the following table for result details(The data is the worst cases)

Vertical



Ambient Temperature: 25C

Relative Humidity : 50%

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	49.707	63.46	-----	-----	Peak	Horizontal
2	349.250	31.72	46.00	-14.28	QP	Horizontal
3	547.098	36.92	46.00	-9.08	QP	Horizontal
4	629.477	38.26	46.00	-7.74	QP	Horizontal
5	665.804	38.38	46.00	-7.62	QP	Horizontal
6	729.358	39.44	46.00	-6.56	QP	Horizontal
7	810.265	39.75	46.00	-6.25	QP	Horizontal

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3.1.2 Antenna Requirement

Test Requirements: § 15.203

Test Specification:

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is Line antenna. The antenna gain =0dBi. User is unable to remove or changed the Antenna.

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3.2 20dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.235
Test Method:	ANSI C63.10: 2013 (Section 13.1.7)
Test Date:	2020-09-17
Mode of Operation:	Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Spectrum Analyzer Setting:

RBW:	3kHz
VBW:	10kHz
Sweep:	Auto
Trace:	Max. hold

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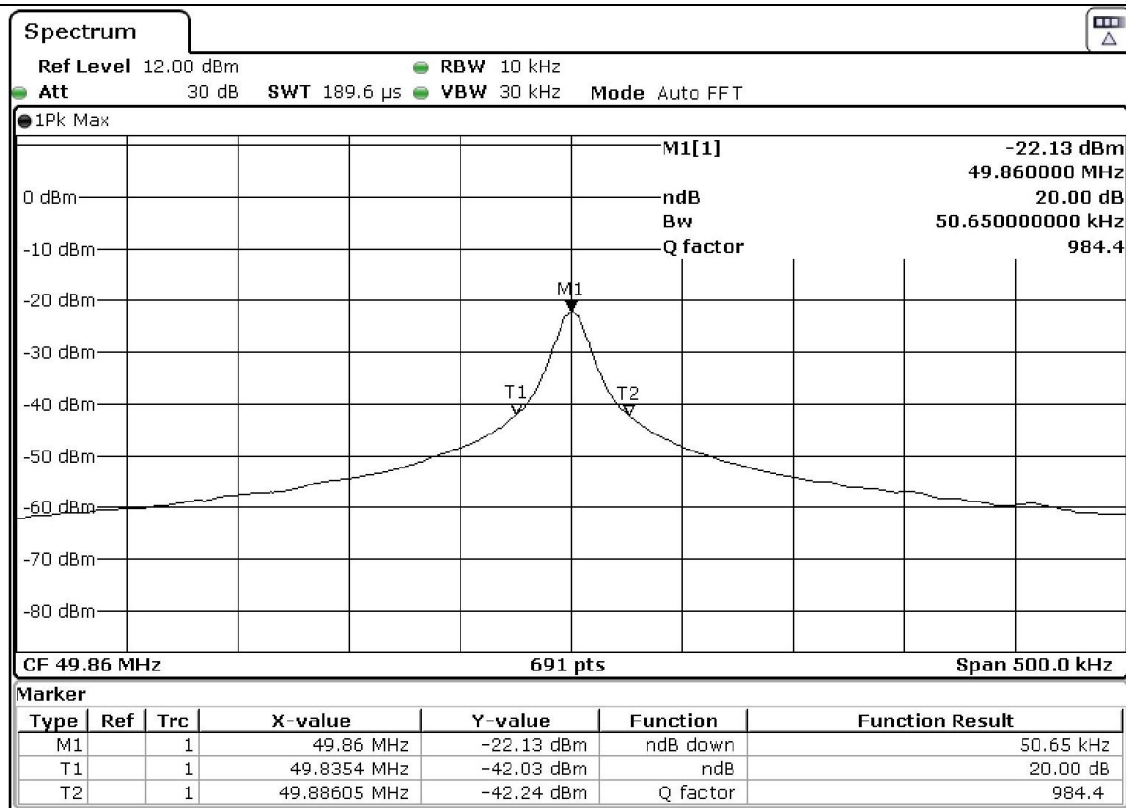
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Limits for 20dB Bandwidth of Fundamental Emission:

F1(MHz)	Fh(MHz)	Permitted frequency range(MHz)	Result
49.835	49.886	49.82-49.90	Compliant

20dB Bandwidth of Fundamental Emission



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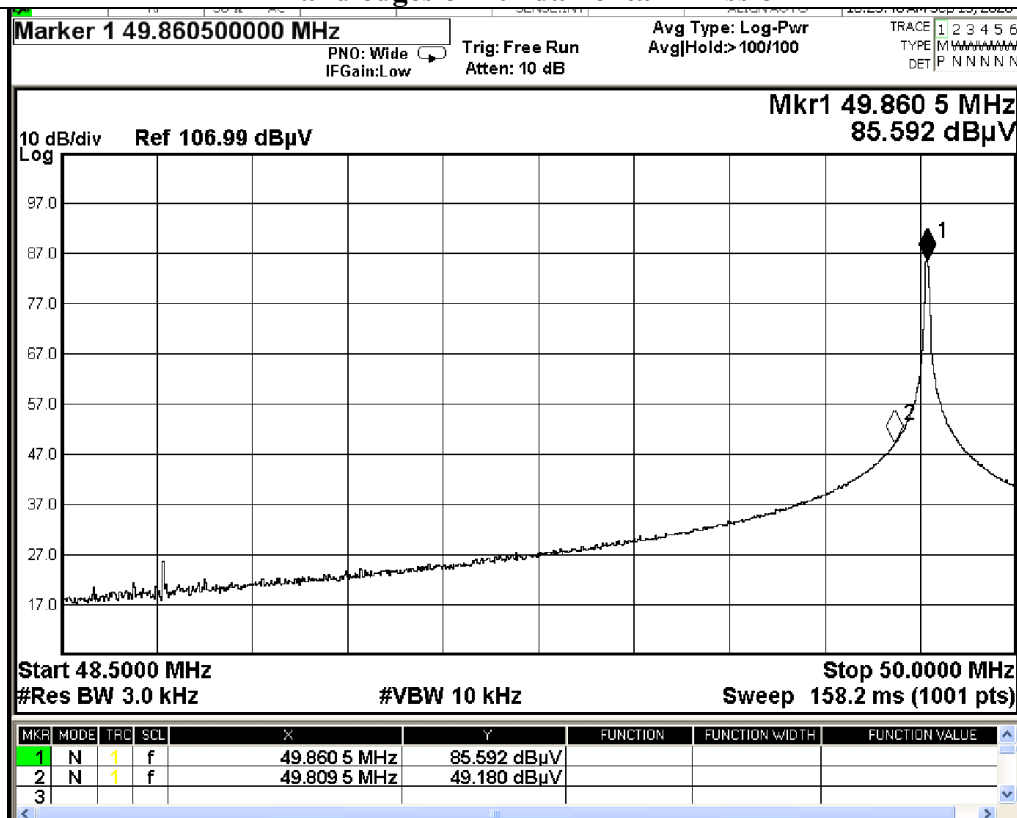
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Limits for Band edges of Fundamental Emission:

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in §15.209, whichever permits the higher emission levels.

Band edges of Fundamental Emission



Frequency MHz	Mesured Level@3m dBuV/m	Correction Factor dB	Result Level@3m dBuV/m
49.86	75.492	10.1	85.592
49.81	39.080	10.1	49.180

Note: Correction Factor=Cable loss+Antenna loss

Frequency Range [MHz]	Bandedges Radiated Emission Attenuated below the Fundamental [dB]
49.8MHz – 52MHz	36.412

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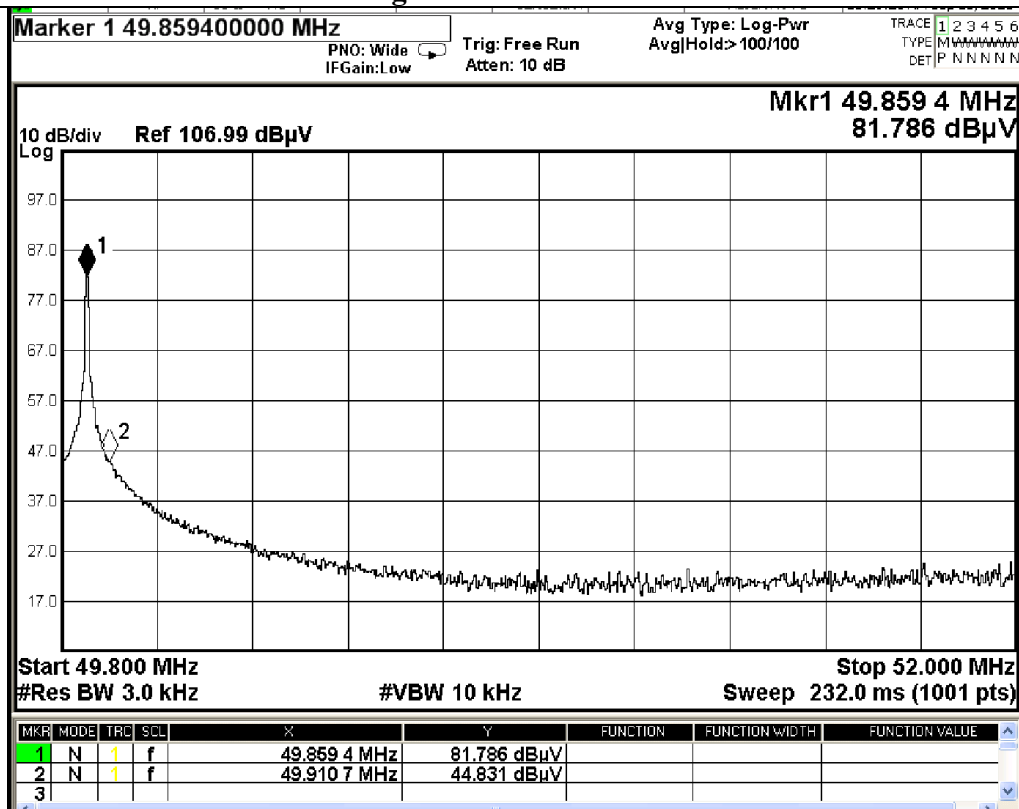


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Band edges of Fundamental Emission



Frequency MHz	Mesured Level@3m dBuV/m	Correction Factor dB	Result Level@3m dBuV/m
49.86	71.686	10.1	81.786
49.91	34.731	10.1	44.831

Note: Correction Factor=Cable loss+Antenna loss

Frequency Range [MHz]	Bandedges Radiated Emission Attenuated below the Fundamental [dB]
49.8MHz – 52MHz	36.955

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURN TABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2020/04/20	2021/04/20
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM336	PRECISION CONICAL DIPOLE	SEIBERSDORF LABORATORIES	PCD 3100	6236/M	2020/05/30	2022/05/30
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2020/05/13	2021/05/13
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB- 10180-SF	J203109090300 7	2019/03/20	2021/03/29
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2020/04/28	2022/04/28
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2020/04/28	2022/04/28
EM022	LOOP ANTENNA	ETS LINDGREN	6502	00206533	2019/11/30	2021/11/30
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2019/10/11	2021/10/11

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

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Appendix B

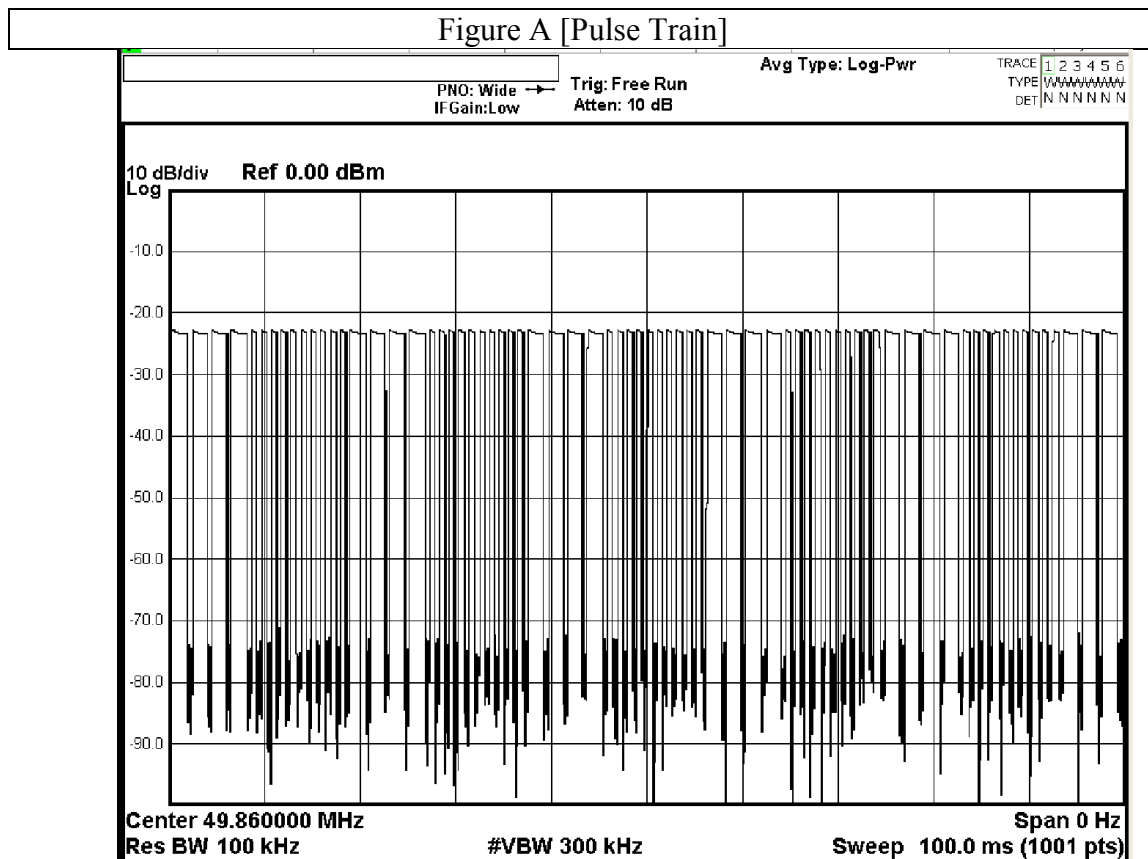
Duty Cycle Correction During 100msec

Each packet period (100msec) never exceeds a series of 23 (1.56msec) long and 50 (0.52msec) short pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $(1.56 \times 23 + 0.52 \times 50)$ msec per 100msec = 61.88% duty cycle. Figure A through D shows the characteristics of the pulses train for one of these functions.

Remarks:

Duty cycle factor = $20\text{Log} [(23 \times 1.56\text{ms} + 50 \times 0.52\text{ms}) / 100] = -4.17\text{dB}$

The following figures [Figure A to Figure C] showed the characteristics of the pulse train for one of these functions.



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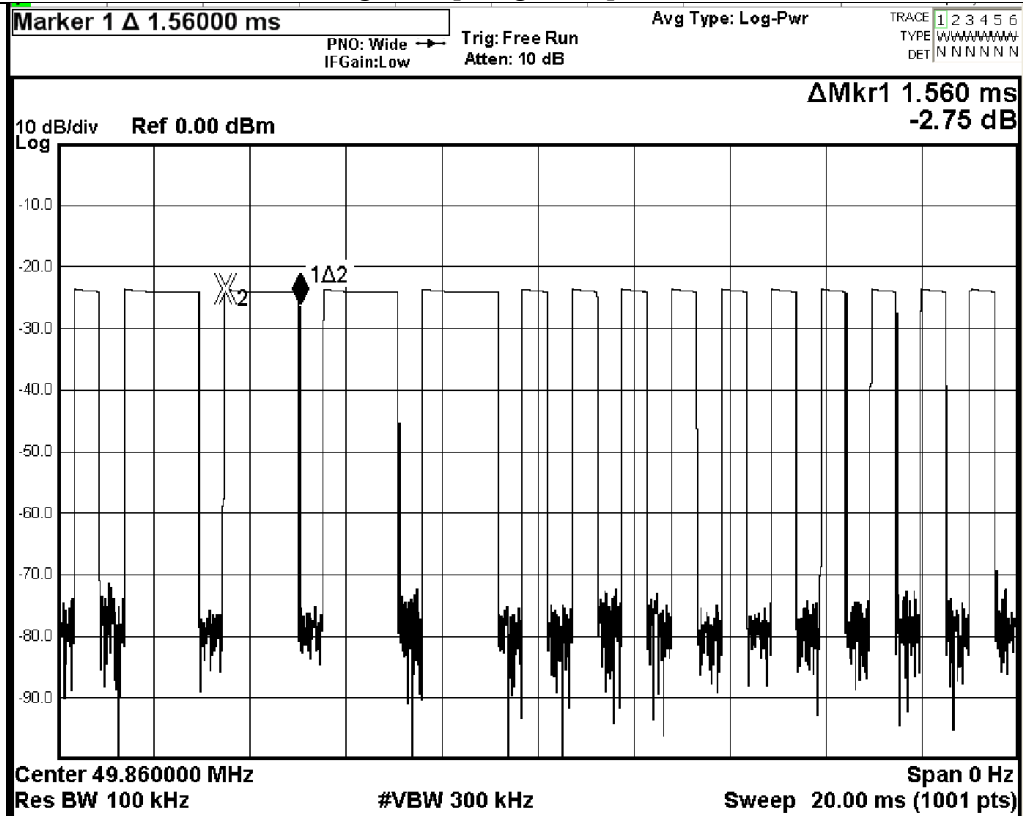


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Figure B [Long Pulse]



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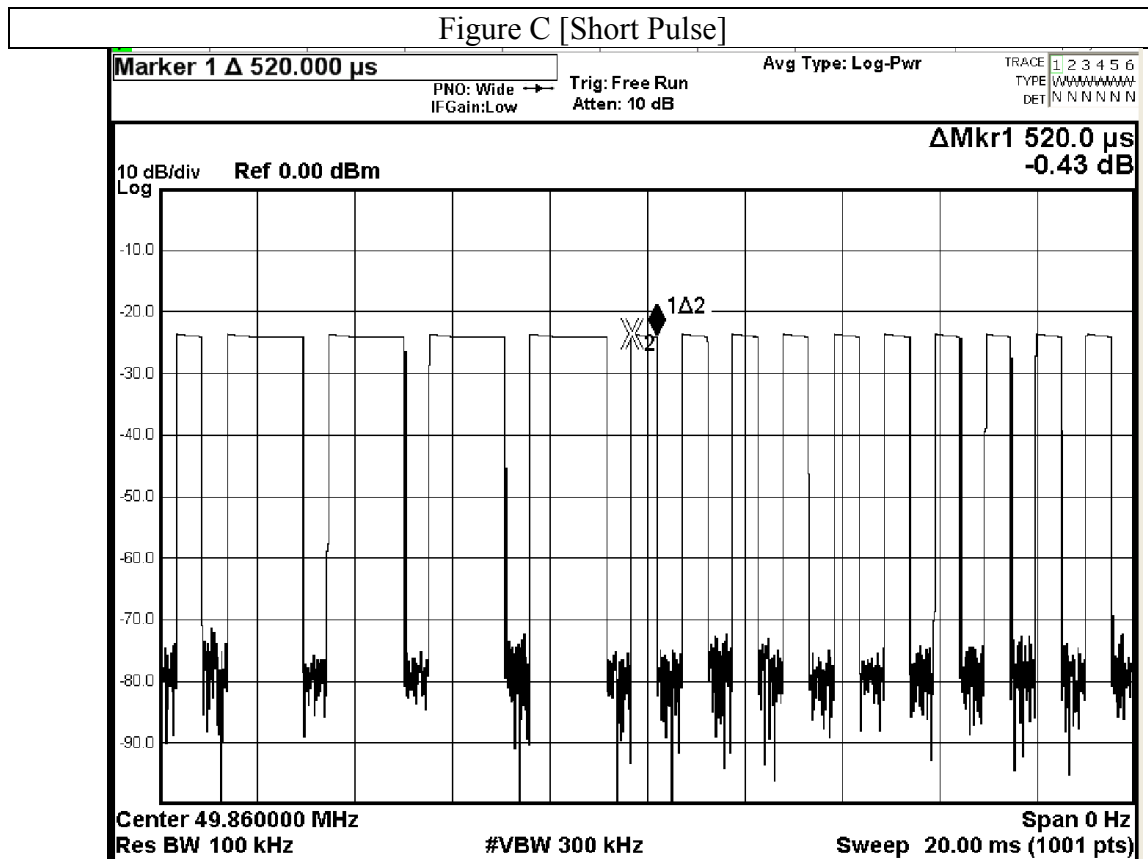
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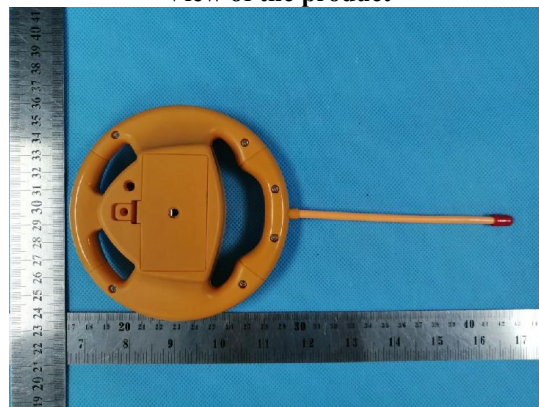
Appendix C

Photographs of EUT

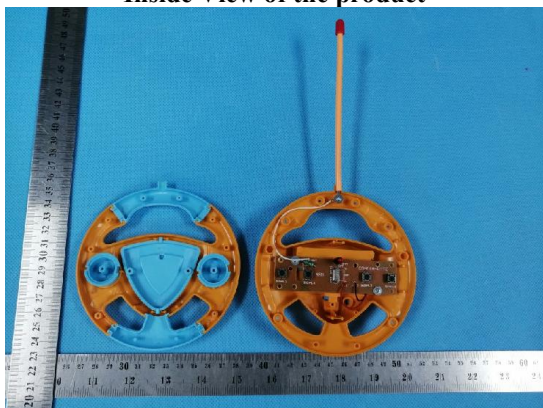
View of the product



View of the product



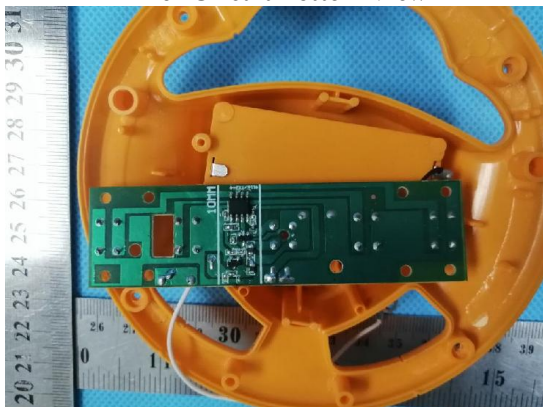
Inside View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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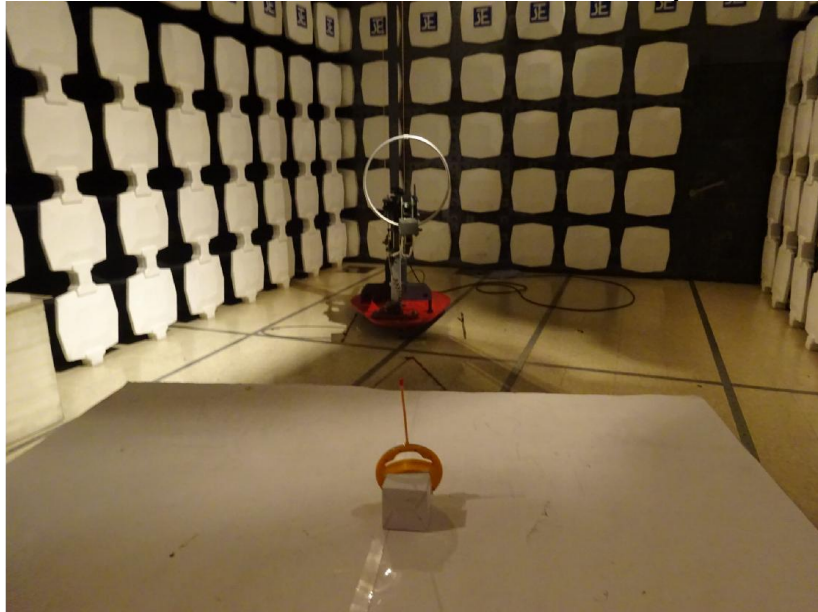
Test Report

Date : 2020-09-21
No. : HMD20090010

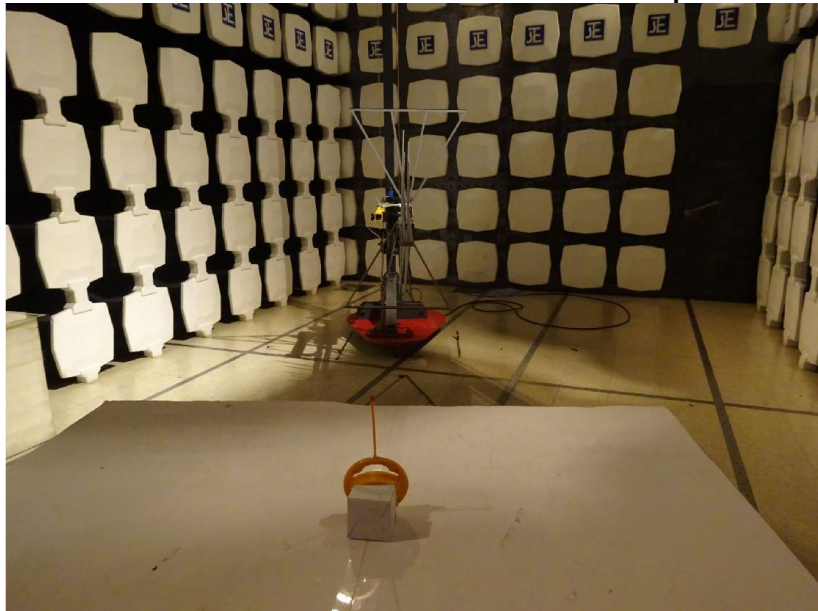
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



******* End of Test Report *******

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10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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