Page 1 of 26 Report No.: ZKT23042503ER-63

# **FCC RADIO TEST REPORT**

FCC ID: 2AI2O-OPR01

Sample: Planet Pet Fountain

Trade Name: Omni

Main Model: OPR01

Additional Model: N/A

**Report No.**: ZKT23042503ER-63

# **Prepared for**

Shenzhen Omni Intelligent Technology Co., Ltd.

11th Floor, Building 31, Phase III, Lianchuang Technology Park, Nanwan street, Longgang District, Shenzhen China

# **Prepared by**

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Page 2 of 26 Report No.: ZKT23042503ER-63

this

# **TEST RESULT CERTIFICATION**

Applicant:	Shenzhen Omni Intelligent Technology Co., Ltd.				
	11th Floor, Building 31, Phase III, Lianchuang Technology Park, Nanwan street, Longgang District, Shenzhen China				
Manufacturer:	Shenzhen Omni Intelligent Technology Co., Ltd.				
	11th Floor, Building 31, Phase III, Lianchuang Technology Park, Nanwan street, Longgang District, Shenzhen China				
Product description					
Product:	Planet Pet Fountain				
Trade Name:	Omni				
Model Name:	OPR01				
	FCC Rules and Regulations Part 15 Subpart C Section 15.249, ANSI C63.10: 2013				
This report shall not be reprod document may be altered or reonly, and shall be noted in the Date of Test  Date (s) of performance of tests	: Apr. 27, 2023 ~ Sep. 08, 2023				
Date of Issue	•				
Test Result  Tested by:					
Reviewer:	Jackson Fang  Jackson Fang				
Approved:	Lake Xie				

22

24

25

6.4 TEST RESULT

**8 PHOTO OF TEST** 

7 ANTENNA REQUIREMENT

Page 4 of 26 Report No.: ZKT23042503ER-63

### 1 TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

ITEM	STANGARD	RESULT
CONDUCTED EMISSION	FCC Part 15.207	COMPLIANT
RADIATED EMISSION	FCC Part 15.209/15.249	COMPLIANT
BAND EDGE	FCC Part 15.249/15.205	COMPLIANT
20dB BANDWIDTH	FCC Part 15.215	COMPLIANT
ANTENNA REQUIREMENT	FCC Part 15.203	COMPLIANT

### **1.2 TEST FACILITY**

Test Firm : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue,

Fuhai Street, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

Designation Number: CN1299

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 692225

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 27033

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

# 1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

# A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 150kHz	2.96	
		150kHz ~ 30MHz	2.44	

# B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 30MHz	2.50	
		30MHz ~ 1000MHz	4.80	
		Above 1000MHz	4.13	

# 1.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

	NORMAL CONDITIONS	EXTREME CONDITIONS	
Temperature range (°C)	15 - 35	-20 - 50	
Relative humidty range	20 % - 75 %	20 % - 75 %	
Pressure range (kPa)	86 - 106	86 - 106	
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.			

# **2 GENERAL INFORMATION**

# 2.1 GENERAL DESCRIPTION OF EUT

Product:	Planet Pet Fountain
Trade Name:	Omni
Main Model:	OPR01
Additional Model:	N/A
Model Difference:	N/A
FCC ID:	2AI2O-OPR01
Operation Frequency:	5800MHz
Number of Channels:	1CH
Field Strength of Fundamental:	106.80dBuV/m
Modulation Type:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi
Battery:	N/A
Adapter:	N/A
Power Source:	AC 120V/60Hz

Page 7 of 26 Report No.: ZKT23042503ER-63

# 2.2 CARRIER FREQUENCY OF CHANNELS

	Channel List
Channel	Frequency(MHz)
01	5800

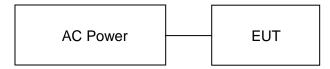
### 2.3 TEST MODE

The EUT was programmed to be in continuously transmitting mode.

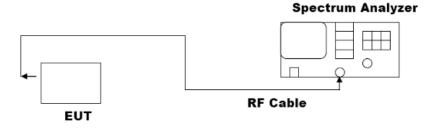
Channel List	
Test Channel Test Frequency (MHz)	
CH01	5800

### 2.4 TEST SETUP

Operation of EUT during Conducted and Radiation testing:



Operation of EUT during RF Conducted testing:



# 2.5 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Power Cable Length	Note
E-1	Planet Pet Fountain	Omni	OPR01		EUT
E-2	Adapter	Xiaomi			AE

### Note:

- 1. The support equipment was authorized by Declaration of Confirmation.
- 2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

# 2.6 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
	Conduction Emissions Measurement				
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A
2	AMN	Schwarzbeck	NNLK8121	8121370	2023.09.22
3	AAN	TESEQ	T8-Cat6	38888	2023.09.22
4	Pulse Limiter	CYBRTEK	EM5010	E115010056	2024.05.30
5	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2023.09.22
		Radiated Emis	sions Measurement		
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A
2	Horn Antenna	Sunol	DRH-118	A101415	2023.09.27
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2024.02.26
4	PREAMP	HP	8449B	3008A00160	2023.09.22
5	PREAMP	HP	8447D	2944A07999	2024.05.30
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2023.09.22
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2023.09.22
8	Signal Generator	Agilent	E4421B	MY4335105	2023.09.22
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2023.09.22
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2023.09.22
11	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2024.05.30
12	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2024.05.30
13	RF power divider	Anritsu	K241B	992289	2023.09.22
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2023.09.22
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2024.05.30
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2023.09.22
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2024.05.30
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2023.09.27
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2023.09.22
20	Signal Generator	Agilent	N5183A	MY47420153	2023.09.22
21	Spctrum Analyzer	Rohde&Schwarz	FSP 40	100501	2023.09.22
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2023.09.22
23	Frequency Meter	VICTOR	VC2000	997406086	2023.09.22
24	DC Power Source	HYELEC	HY5020E	055161818	2023.09.22

### 3 CONDUCTED EMISSION

### 3.1 TEST LIMIT

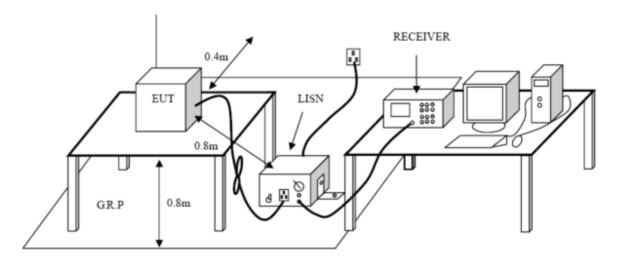
For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

	Maximum RF Line Voltage (dBμV)			
Frequency (MHz)	CLASS A		CLASS B	
(1411 12)	Q.P. Ave.		Q.P.	Ave.
0.15~0.50	79	66	66~56*	56~46*
0.50~5.00	73	60	56	46
5.00~30.0	73	60	60	50

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

### 3.2 TEST SETUP



### 3.3 TEST PROCEDURE

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

# 3.4 TEST RESULT

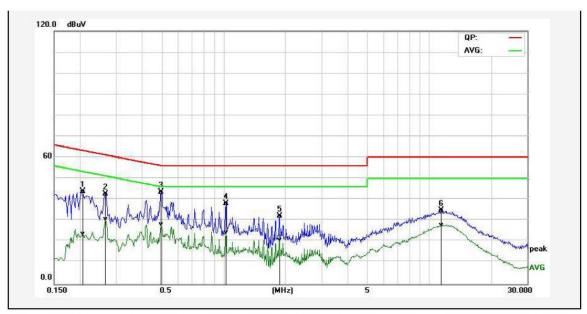
# **PASS**

# Remark:

All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.

Page	11 د	Ωf	26
rauc	7 II	OI.	~0

Temperature:	24°C	Relative Humidity:	48%	
Test Date:	Apr. 28, 2023	Pressure:	1010hPa	
Test Voltage:	AC 120V, 60Hz	Phase:	Line	
Test Mode:	Transmitting mode of GFSK 5800MHz			

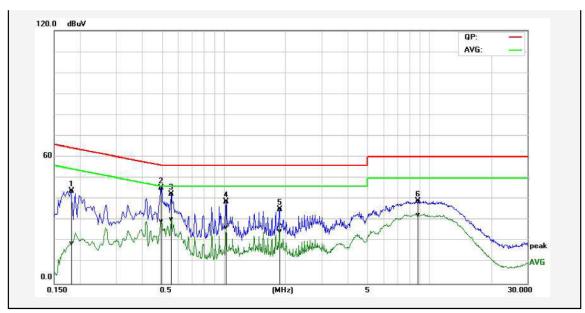


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	<b>2</b> 000
1P	0.2061	33.79	13.89	10.09	43.88	23.98	63.36	53.36	-19.48	-29.38	Pass
2P	0.2657	32.57	20.77	10.07	42.64	30.84	61.25	51.25	-18.61	-20.41	Pass
3*	0.4966	33.73	18.26	10.04	43.77	28.30	56.06	46.06	-12.29	-17.76	Pass
4P	1.0264	28.20	14.36	10.09	38.29	24.45	56.00	46.00	-17.71	-21.55	Pass
5P	1.8680	22.03	10.85	10.13	32.16	20.98	56.00	46.00	-23.84	-25.02	Pass
6P	11.4375	24.57	17.58	10.51	35.08	28.09	60.00	50.00	-24.92	-21.91	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

Page 1	2 of	26
--------	------	----

Temperature:	24°C	Relative Humidity:	48%	
Test Date:	Apr. 28, 2023	Pressure:	1010hPa	
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral	
Test Mode:	Transmitting mode of GFSK 5800MHz			



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak Iimit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBu∀)	(dBu∀)	(dB)	(dBu∀)	(dBu∀)	(dBu∀)	(dBu∀)	(dB)	(dB)	
1P	0.1814	33.98	8.99	10.08	44.06	19.07	64.42	54.42	-20.36	-35.35	Pass
2*	0.4966	35.26	19.41	10.04	45.30	29.45	56.06	46.06	-10.76	-16.61	Pass
3P	0.5552	32.39	20.46	10.04	42.43	30.50	56.00	46.00	-13.57	-15.50	Pass
4P	1.0264	28.83	16.38	10.09	38.92	26.47	56.00	46.00	-17.08	-19.53	Pass
5P	1.8680	25.11	14.77	10.13	35.24	24.90	56.00	46.00	-20.76	-21.10	Pass
6P	8.7757	28.75	22.16	10.49	39.24	32.65	60.00	50.00	-20.76	-17.35	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

# **4 RADIATED EMISSION**

# **4.1 TEST LIMIT**

For unintentional device, according to § 15.209(a), except for Class B digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F (kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	F00	54.0	Average	3
	500	74.0	Peak	3

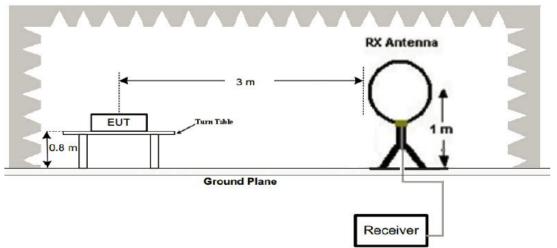
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

Limit: (Field strength of the fundamental signal)

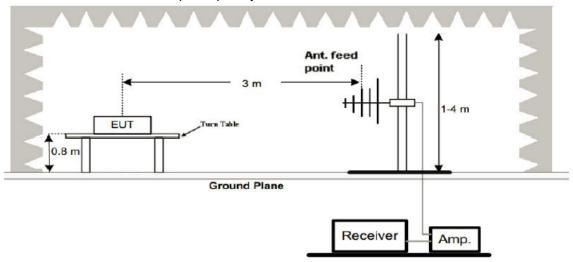
Limit (dBuV/m @3m)	Remark
94.0	Average Value
114.0	Peak Value

# **4.2 TEST SETUP**

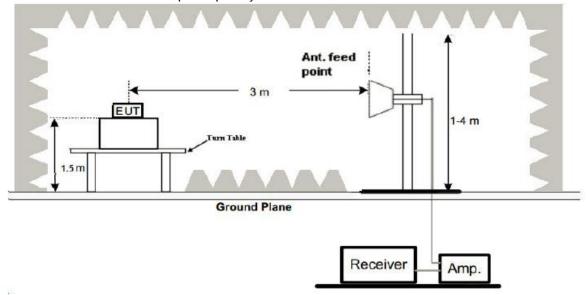
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz



Page 15 of 26 Report No.: ZKT23042503ER-63

#### **4.3 TEST PROCEDURE**

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane.

  And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9kHz to 40GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

### **4.4 TEST RESULT**

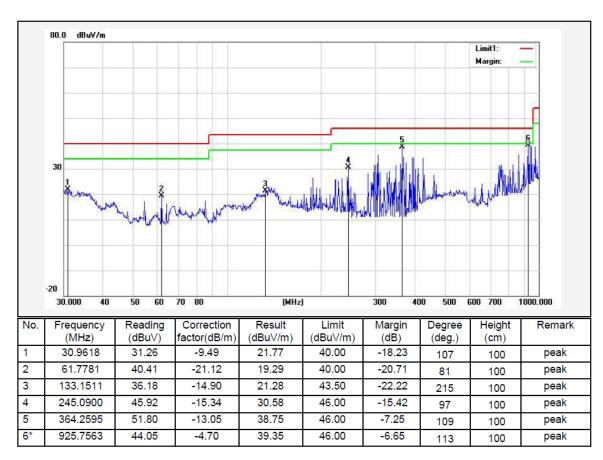
### **PASS**

#### Remark:

- 1. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.
- 2. Radiated emission test from 9kHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9kHz to 30MHz and not recorded in this report.

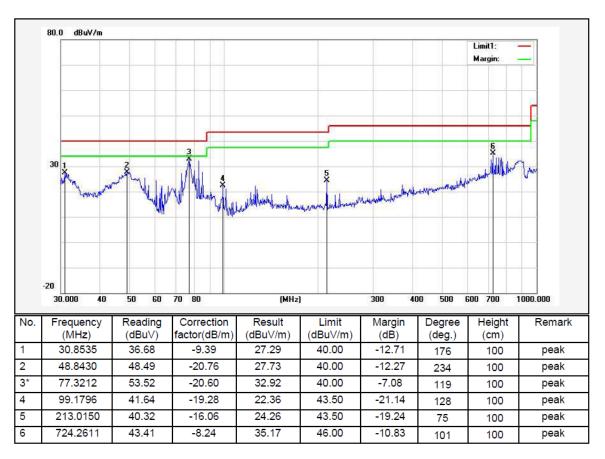
# Below 1GHz Test Results:

Temperature:	24°C	Relative Humidity:	48%	
Test Date:	Apr. 28, 2023	Pressure:	1010hPa	
Test Voltage:	AC 120V, 60Hz	Phase:	Horizontal	
Test Mode:	Transmitting mode of GFSK 5800MHz			



Remark: Result = Reading Level + Factor, Margin = Result - Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier

Temperature:	24°C	Relative Humidity:	48%	
Test Date:	Apr. 28, 2023	Pressure:	1010hPa	
Test Voltage:	AC 120V, 60Hz	Phase:	Vertical	
Test Mode:	Transmitting mode of GFSK 5800MHz			



Remark: Result = Reading Level + Factor, Margin = Result - Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier

### Remark:

- 1. Measuring frequencies from 9 kHz to the 1 GHz, Radiated emission test from 9kHz to 30MHzwas verified, and no any emission was found except system noise floor.
- 2. \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- 3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz.

# Above 1 GHz Test Results: CH01 (5800MHz)

### Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
112.64	-5.84	106.8	114	-7.2	PK
82.57	-5.84	76.73	94	-17.27	AV
60.04	-3.64	56.4	74	-17.6	PK
50.25	-3.64	46.61	54	-7.39	AV
56.97	-0.95	56.02	74	-17.98	PK
47.16	-0.95	46.21	54	-7.79	AV
	Result (dBµV) 112.64 82.57 60.04 50.25 56.97	Result     Factor       (dBμV)     (dB)       112.64     -5.84       82.57     -5.84       60.04     -3.64       50.25     -3.64       56.97     -0.95	Result     Factor     Emission Level       (dBμV)     (dB)     (dBμV/m)       112.64     -5.84     106.8       82.57     -5.84     76.73       60.04     -3.64     56.4       50.25     -3.64     46.61       56.97     -0.95     56.02	Result         Factor         Emission Level         Limits           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)           112.64         -5.84         106.8         114           82.57         -5.84         76.73         94           60.04         -3.64         56.4         74           50.25         -3.64         46.61         54           56.97         -0.95         56.02         74	Result         Factor         Emission Level         Limits         Margin           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)         (dB)           112.64         -5.84         106.8         114         -7.2           82.57         -5.84         76.73         94         -17.27           60.04         -3.64         56.4         74         -17.6           50.25         -3.64         46.61         54         -7.39           56.97         -0.95         56.02         74         -17.98

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
5800	112.62	-5.84	106.78	114	-7.22	PK
5800	82.45	-5.84	76.61	94	-17.39	AV
11600	60.16	-3.64	56.52	74	-17.48	PK
11600	50.28	-3.64	46.64	54	-7.36	AV
17400	57.04	-0.95	56.09	74	-17.91	PK
17400	47.22	-0.95	46.27	54	-7.73	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

### Remark:

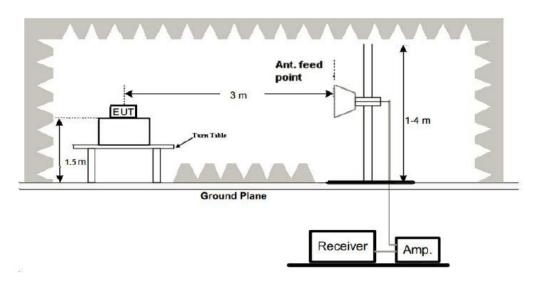
- 1. Measuring frequencies from 1 GHz to the 40 GHz.
- 2. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- 3. \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 6. When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- 7. All modes of operation were investigated and the worst-case emissions of  $\pi/4$  DQPSK are reported.
- 8. For fundamental frequency, RBW >20dB BW, VBW>=3XRBW, PK detector for PK value, AV detector for AV value.
- 9.18GHz-40GHz the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

### **5 BAND EDGE**

### **5.1 TEST LIMIT**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### **5.2 TEST SETUP**



### **5.3 TEST PROCEDURE**

- 1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode. The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc.
- 2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz; VBW=3MHz / Sweep=AUTO

# **5.4 MEASUREMENT EQUIPMENT USED**

The same as described in section 2.6.

## **5.5 TEST RESULT**

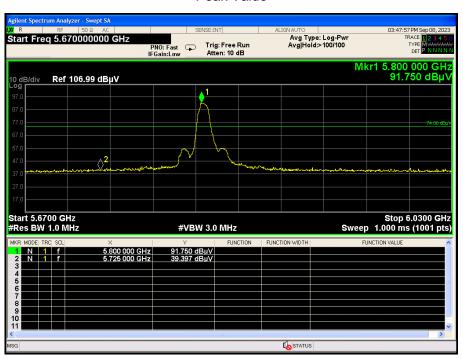
Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

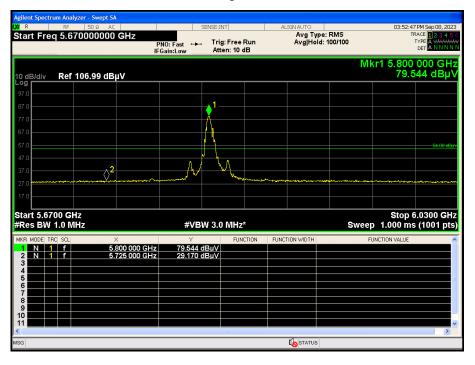
Page	20	of	26
------	----	----	----

EUT	Planet Pet Fountain	Model Name	OPR01
Temperature	21.8℃	Relative Humidity	58%
Pressure	101kPa	Test Voltage	DC 5V
Test Mode	Transmitting mode of GFSK 5800MHz	Polarization	Horizontal

Peak Value



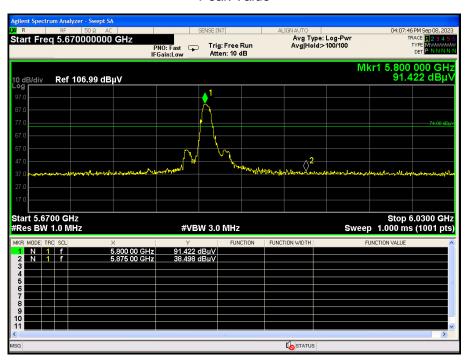
Average Value

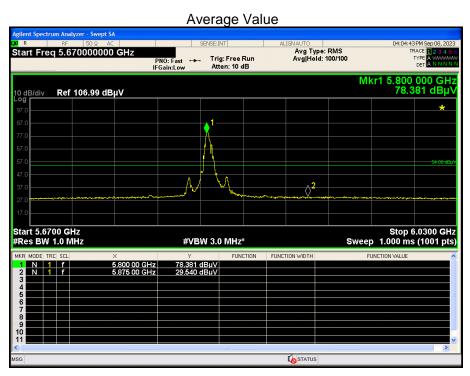


Page 2	21 of	26
--------	-------	----

EUT	Planet Pet Fountain	Model Name	OPR01
Temperature	21.8℃	Relative Humidity	58%
Pressure	101kPa	Test Voltage	DC 5V
Test Mode	Transmitting mode of GFSK 5800MHz	Polarization	Vertical

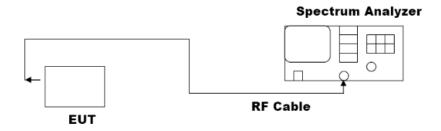
# Peak Value





# 6 20dB BANDWIDTH

### 6.1 TEST SETUP



### **6.2 MEASUREMENT EQUIPMENT USED**

The same as described in section 2.6.

### **6.3 TEST PROCEDURE**

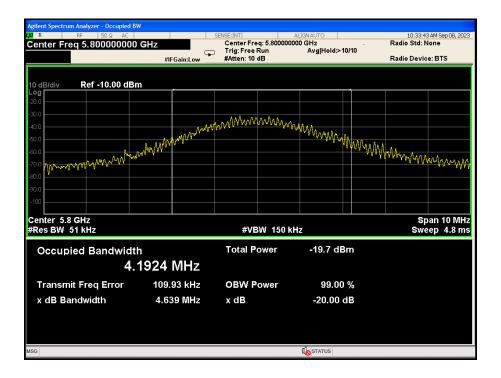
- 1.The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3.Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 51 kHz. Set the Video bandwidth (VBW) = 150 kHz. In order to make an accurate measurement.
- 4.For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 \* RBW.
- 5. Measure and record the results in the test report.

## **6.4 TEST RESULT**

**PASS** 

**GFSK Modulation:** 

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Result
CH01	5800	4.639	N/A	Pass



# **7 ANTENNA REQUIREMENT**

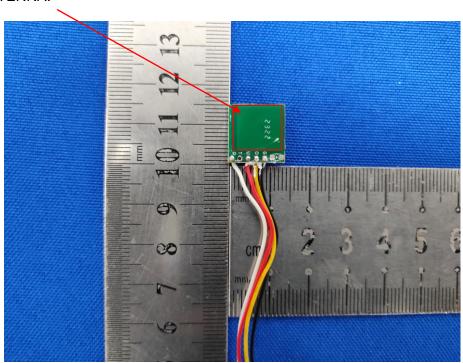
# Standard Applicable:

For intentional device, according to FCC 47 CFR Section 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.

# Antenna Connected Construction

The antenna used in this product is an Internal Antenna, The directional gains of antenna used for transmitting is 0dBi.

# ANTENNA:



# **8 PHOTO OF TEST**

# **Radiated Emission**



30MHz-1000MHz



Above 1GHz

# **Conducted Emission**



# **RF Conducted**

