



FCC ID: SW8TD11000Z2 Report No.: T180525D04-RP Page: 1 / 26 Rev.: 01

# RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C

Test Standard	FCC Part 15.249
Product name	Z-Wave Roller Shutter Controller
Brand Name	GOOD WAY
Model No.	TD11000Z2
Test Result	Pass

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)

Approved by:

Lan

Manager

Reviewed by:

Sam Chuang

Chu

Jerry Chuang Engineer

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. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部分複製。

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Page: 2 / 26 Rev.: 01

#### **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 8, 2018	Initial Issue	ALL	May Lin
01	August 14, 2018	<ol> <li>Modify the modulation type.</li> <li>Removed the plot frame title.</li> <li>Modify the 4.2, title.</li> <li>Update test procedure.</li> </ol>	P.5, P.12, P.16, P.19	May Lin



Page: 3 / 26 Rev.: 01

### TABLE OF CONTENTS

1. GENERAL INFORMATION
1.1 EUT INFORMATION4
1.2 EUT CHANNEL INFORMATION
1.3 ANTENNA INFORMATION
1.4 MEASUREMENT UNCERTAINTY6
1.5 FACILITIES AND TEST LOCATION
1.6 INSTRUMENT CALIBRATION7
1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT8
1.8 TEST METHODOLOGY AND APPLIED STANDARDS
2. TEST SUMMERY9
3. DESCRIPTION OF TEST MODES10
3.1 THE WORST MODE OF OPERATING CONDITION10
3.2 THE WORST MODE OF MEASUREMENT11
3.3 EUT DUTY CYCLE
4. TEST RESULT
4.1 AC POWER LINE CONDUCTED EMISSION
4.2 20dB BANDWIDTH16
4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION



Page: 4 / 26 Rev.: 01

# 1. GENERAL INFORMATION

# **1.1 EUT INFORMATION**

Applicant	GOOD WAY TECHNOLOGY CO., LTD. 3F, No. 135, Ln. 235, Baociao Rd., Sindian Dist., New Taipei City 231, Taiwan	
Equipment	Z-Wave Roller Shutter Controller	
Trade Name	GOOD WAY	
Model No.	TD11000Z2	
Model Discrepancy	N/A	
Received Date	May 25, 2018	
Date of Test	May 31 ~ August 1, 2018	
Power Operation	Power by AC power cord: 110-230Vac ~ 50/60Hz	
RF Field Strength	87.47dBuV/m @peak	



Page: 5 / 26 Rev.: 01

# **1.2 EUT CHANNEL INFORMATION**

Frequency Range	916MHz
Modulation Type	GFSK
Number of channel	1 Channel

#### Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested						
Frequency range inNumber ofLocation in frequencywhich device operatesfrequenciesrange of operation						
🔀 1 MHz or less	1	Middle				
1 MHz to 10 MHz	2	1 near top and 1 near bottom				
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom				

### **1.3 ANTENNA INFORMATION**

Antenna Type	<ul> <li>□ PIFA</li> <li>□ PCB</li> <li>□ Dipole</li> <li>⊠ Monopole</li> </ul>
Antenna Gain	Gain: -3dBi



Page: 6 / 26 Rev.: 01

### **1.4 MEASUREMENT UNCERTAINTY**

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

#### Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k*=2

2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



Page: 7 / 26 Rev.: 01

# **1.5 FACILITIES AND TEST LOCATION**

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Dally Hong	
Radiation	Jerry Chuang	
RF Conducted	Jerry Chuang	

**Remark:** The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

### **1.6 INSTRUMENT CALIBRATION**

RF Conducted Test Site						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum Analyzer	R&S	FSV 40	101073	10/02/2017	10/01/2018	
		Wugu 966 C	hamber A			
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019	
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	07/31/2017	07/30/2018	
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	07/31/2017	07/30/2018	
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	02/08/2018	02/07/2019	
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/25/2017	08/24/2018	
Pre-Amplifier	EMEC	EM330	060609	07/31/2017	07/30/2018	
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019	
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	

Conducted Emission Room # B							
Name of Equipment Manufacturer Model Serial Number Calibration Date Calibration D							
CABLE	EMCI	CFD300-NL	CERF	07/04/2017	07/03/2018		
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019		
LISN	SCHWARZBECK	NSLK 8127	8127-541	02/09/2018	02/08/2019		
LISN	SCHAFFNER	NNB41	03/10013	02/06/2018	02/05/2019		

Remark: Each piece of equipment is scheduled for calibration once a year.



Page: 8 / 26 Rev.: 01

# **1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT**

EUT Accessories Equipment							
No.	No. Equipment Brand Model Series No. FCC ID						
	N/A						

	Support Equipment							
No.	Equipment	Brand	Model	Series No.	BSMI ID			
	N/A							

### **1.8 TEST METHODOLOGY AND APPLIED STANDARDS**

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.249



# 2. TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.215(c)	4.2	20 dB Bandwidth	Pass
15.249(a)	4.3	Field strength of the fundamental signal	Pass
15.249(a) /15.209	4.3	Radiation Spurious Emission	Pass

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Page: 9 / 26 Rev.: 01



Page: 10 / 26 Rev.: 01

### 3. DESCRIPTION OF TEST MODES

### **3.1 THE WORST MODE OF OPERATING CONDITION**

Operation mode	Z-wave
Test Channel Frequencies	916 MHz

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



Page: 11 / 26 Rev.: 01

# 3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission						
Test Condition	Test Condition         AC Power line conducted emission for line and neutral					
Power supply Mode Mode 1: EUT power by AC power cord						
Worst Mode	Worst Mode   Mode 1 Mode 2 Mode 3 Mode 4					

Radiated Emission Measurement Above 1G					
Test Condition	Test Condition Band edge, Emission for Unwanted and Fundamental				
Power supply Mode Mode 1: EUT power by AC power cord					
Worst Mode	🖂 Mode 1 🗌 Mode 2 🗌 Mode 3 🗌 Mode 4				
Worst Position	<ul> <li>Placed in fixed position.</li> <li>Placed in fixed position at X-Plane (E2-Plane)</li> <li>Placed in fixed position at Y-Plane (E1-Plane)</li> <li>Placed in fixed position at Z-Plane (H-Plane)</li> </ul>				
Worst Polarity	Horizontal 🗌 Vertical				

F	Radiated Emission Measurement Below 1G					
Test Condition	Test Condition Radiated Emission Below 1G					
Power supply Mode	Power supply Mode Mode 1:EUT power by AC power cord					
Worst Mode	🔀 Mode 1 🗌 Mode 2 🗌 Mode 3 🗌 Mode 4					

Remark:

1. The worst mode was record in this test report.

2. EUT pre-scanned in three axis, X, Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case (X-Plane and Horizontal) were recorded in this report

3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.



Page: 12 / 26 Rev.: 01

# 3.3 EUT DUTY CYCLE

Duty Cycle							
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)	Duty Factor(dB)			
916 MHz	1.0000	1.0000	100.00%	0.00			

Att TRG:VID	0 dB 👄 SWT 10	ms 👄 VBW 1 N	1Hz			
●1Pk View				M1[1]		-47.57 dBm
-20 dBm					+ +	4.6812 ms
-30 dBm						
-40 dBm			M1			
-50 dBm			¥		+	
-60-dBm TRG -60	).000 dBm					
-70 dBm						
-80 dBm						
-90 dBm						
-100 dBm						
CF 916.0 MHz			691 pts			1.0 ms/



Page: 13 / 26 Rev.: 01

## 4. TEST RESULT

# 4.1 AC POWER LINE CONDUCTED EMISSION

### 4.1.1 Test Limit

According to §15.207(a),

Frequency Range	Limits(dBµV)				
(MHz)	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			

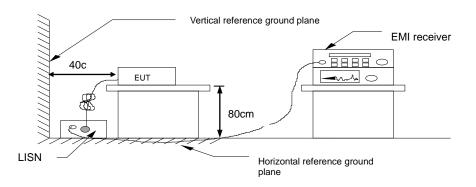
\* Decreases with the logarithm of the frequency.

# 4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

- 1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
- 2. EUT connected to the line impedance stabilization network (LISN)
- 3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. Recorded Line for Neutral and Line.

### 4.1.3 Test Setup



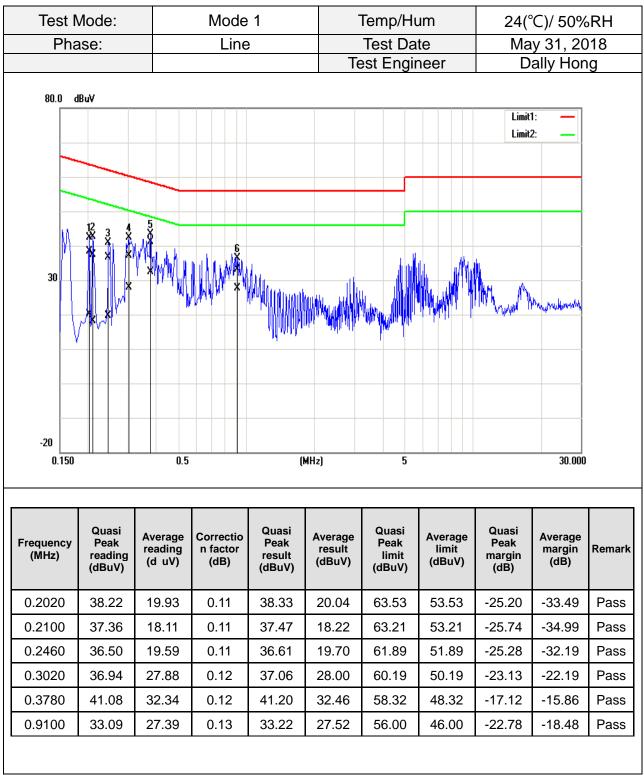
# 4.1.4 Test Result

<u>PASS</u>



Page: 14 / 26 Rev.: 01

### Test Data





Test N	Node:		Mode	1		Temp/H	um	24(	°C)/ 50%	SRH
Pha	ase:		Neutr	al		Test Da			y 31, 20	
					Te	est Engi	neer	D	ally Hor	ıg
80.0 d	BuV		5, X,	1 <mark>/49/4</mark> 4/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1					2:	
-20 0.150		0.5		(1	MHz)	5			30.000	
Frequency (MHz)	Quasi Peak reading dBuV)	Average reading (dBuV)	Correctio n factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remarl
0.3268	37.10	29.37	0.13	37.23	29.50	59.53	49.53	-22.30	-20.03	Pass
0.3620	37.97	29.75	0.13	38.10	29.88	58.68	48.68	-20.58	-18.80	Pass
0.3780	37.66	30.46	0.13	37.79	30.59	58.32	48.32	-20.53	-17.73	Pass
0.4340	31.81	26.28	0.13	31.94	26.41	57.18	47.18	-25.24	-20.77	Pass
			0.4.4	30.51	24.87	56.00	46.00	-25.49	-21.13	Pass
0.7220	30.37	24.73	0.14	30.51	24.07	50.00	40.00	20.40	21.10	1 433



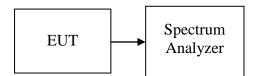
Page: 16 / 26 Rev.: 01

### 4.2 20dB BANDWIDTH

### <u>LIMIT</u>

None; for reporting purposes only.

#### **Test Configuration**



### **TEST PROCEDURE**

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=100kHz, VBW = 300kHz, Span = 1MHz, Sweep = auto.
- 4. Mark the peak frequency and 20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

### TEST RESULTS

No non-compliance noted

#### Test Data

Frequency	20dB Bandwidth
(MHz)	(kHz)
916	123.0



Page: 17 / 26 Rev.: 01

#### Test Plot

Spectrum	· ]						[
Ref Level	-10.00		RBW 100				
Att		0 dB 👄 SWT 500 n	is 👄 VBW 300	kHz Mo	de Auto Sv	veep	
1Pk View							
I					D3[1]		-18.54 123.00 k
-20 dBm					M1[1]		-53.92 di
							916.02890 M
-30 dBm							
-40 dBm							
-40 aBm							
-50 dBm—				M1			
	D1 -53.	920 dBm		<b></b>			
-60 dBm —							
-70 dBm		-73.920 dBm	2			2	
-80 dBm—	02	-73.920 UBIII					
-90 dBm				_			
-100 dBm-					F2	2	
I		F					
CF 916.0 M	Hz	I	6	91 pts			Span 1.0 MF
1arker							
	Trc	X-value	Y-value		unction	F	unction Result
M1	1	916.0289 MH					
M2 D3 M	1 1	915.8379 MH 123.0 kH					
M		12010 M	1010				

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Page: 18 / 26 Rev.: 01

# 4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

### 4.3.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

#### Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

#### Above 30 MHz

Frequency	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)				
(MHz)	Transmitters	Receivers			
30-88	100 (3 nW)	100 (3 nW)			
88-216	150 (6.8 nW)	150 (6.8 nW)			
216-960	200 (12 nW)	200 (12 nW)			
Above 960	500 (75 nW)	500 (75 nW)			

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 937606.



Page: 19 / 26 Rev.: 01

### 4.3.2 Test Procedure

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

4. The SA setting following :

- (1) Below 1G : RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
- (2) Above 1G:
  - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
  - (2.2) For Average measurement : RBW = 1MHz, VBW

If Duty Cycle ≥ 98%, VBW=10Hz.

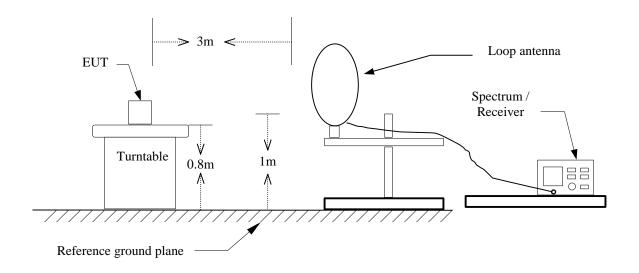
If Duty Cycle < 98%, VBW≥1/T.

Configuration	Duty Cycle (%)	T(ms)	1/T (Hz)	VBW setting
916 MHz	100%	1.0000	-	10Hz

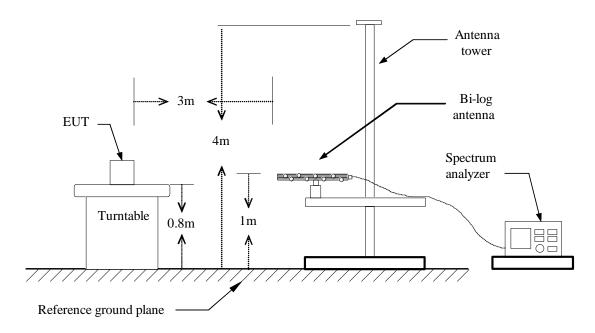


Page: 20 / 26 Rev.: 01

### 4.3.3 <u>Test Setup</u> <u>9kHz ~ 30MHz</u>



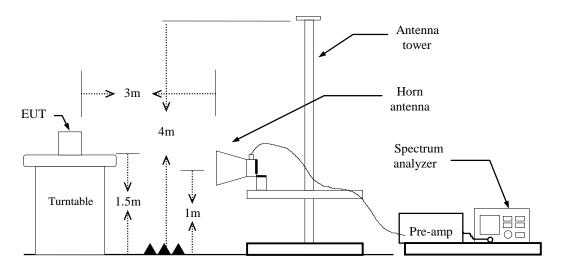
#### <u>30MHz ~ 1GHz</u>





Page: 21 / 26 Rev.: 01

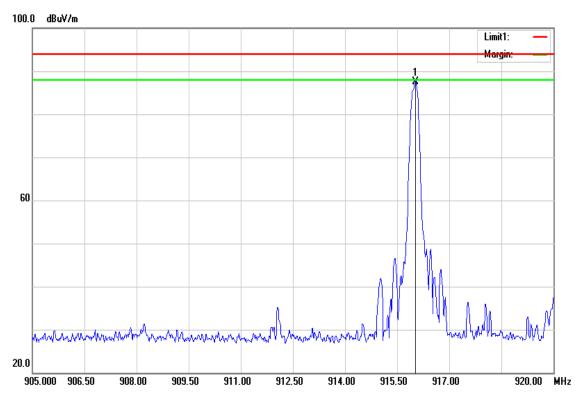
#### Above 1 GHz





Page: 22 / 26 Rev.: 01

#### Radiation Fundamental



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	916.0325	82.81	4.66	87.47	93.97	-6.50	peak



### Below 1G Test Data

Page: 23 / 26 Rev.: 01

	Mode:		916MHz		mp/Hum		C)/ 34%R	
Test Item		30	30MHz-1GHz		Test Date		July 27, 2018	
	arize		Vertical	Test	Engineer	Jer	ry Chuang	
Det	ector		Peak					
80.0 dB	uV/m							
						Limit1: Margin		
30		4 X 00 321.00	5 6 7 1	0 612.00	709.00 806		1000.00 MHz	
		Reading	Correct	Result	Limit	Margin	Remark	
No.	requency	Reauling						
No.	requency (MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
<b>No.</b>		-				(dB) -16.06	peak	
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)		peak peak	
1	(MHz) 120.2100	<b>(dBuV)</b> 36.37	Factor(dB/m) -8.91	(dBuV/m) 27.46	(dBuV/m) 43.52	-16.06		
1 2	(MHz) 120.2100 154.6450	(dBuV) 36.37 36.09	Factor(dB/m) -8.91 -9.94	(dBuV/m) 27.46 26.15	(dBuV/m) 43.52 43.52	-16.06 -17.37	peak	
1 2 3	(MHz) 120.2100 154.6450 189.5650	(dBuV) 36.37 36.09 34.63	Factor(dB/m) -8.91 -9.94 -10.17	(dBuV/m) 27.46 26.15 24.46	(dBuV/m) 43.52 43.52 43.52	-16.06 -17.37 -19.06	peak peak	



1001	Mode:		916MHz	Те	mp/Hum	22(°	C)/ 34%R	
	Test Item		30MHz-1GHz		Test Date		y 27, 2018	
	arize	ŀ	Horizontal		Test Engineer		Jerry Chuan	
Det	tector		Peak					
80.0 dB	3uV/m							
						Limit1:		
						Margin	·	
		23 XX						
30	×		4 5 X X 6 1 X					
-20								
20	127.00 224.	00 321.00	418.00 515.0	0 612.00	709.00 806	.00	1000.00 MHz	
	127.00 224.	00 321.00 Reading	418.00 515.0	00 612.00 Result	709.00 806	.00 Margin	1000.00 MHz Remark	
30.000								
30.000	Frequency	Reading	Correct	Result	Limit	Margin		
30.000 No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
30.000 No.	Frequency           (MHz)           155.6150	Reading (dBuV) 41.24	Correct Factor(dB/m) -9.97	Result (dBuV/m) 31.27	Limit (dBuV/m) 43.52	Margin (dB) -12.25	Remark peak	
30.000 No. 1 2	Frequency           (MHz)           155.6150           291.9000	Reading           (dBuV)           41.24           41.54	Correct Factor(dB/m) -9.97 -8.05	Result           (dBuV/m)           31.27           33.49	Limit (dBuV/m) 43.52 46.02	Margin (dB) -12.25 -12.53	Remark peak peak	
30.000 No. 1 2 3	Frequency           (MHz)           155.6150           291.9000           310.3300	Reading         (dBuV)         41.24         41.54         41.27	Correct Factor(dB/m) -9.97 -8.05 -7.72	Result           (dBuV/m)           31.27           33.49           33.55	Limit (dBuV/m) 43.52 46.02 46.02	Margin (dB) -12.25 -12.53 -12.47	Remark peak peak peak	



Page: 25 / 26 Rev.: 01

### Above 1G Test Data

Test	Mode:		916MHz	Terr	np/Hum	22(°(	C)/ 34%RI
	Item	ŀ	Harmonic		Test Date		/ 27, 2018
	arize		Vertical		Engineer	Jerry Chuang	
Det	ector	Peak	and Average	•			
110.0 dB	uV/m						
						Limit1: Limit2:	_
70							
	X						
30.0	D 1900.00 2800	00 2700 00	4000.00 5500.0	0.000.00	7200.00 0200	00	10000.00 MIL
1000.000	D 1900.00 2800	.00 3700.00	4600.00 5500.0	0 6400.00	7300.00 8200.0	UU	10000.00 MHz
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1832.000	41.86	-5.37	36.49	74.00	-37.51	peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Page: 26 / 26 Rev.: 01

Test I	Mode:		916MHz		np/Hum		C)/ 34%RH	
	ltem		Harmonic		Test Date		July 27, 2018	
	arize		lorizontal	Test I	Engineer	Jer	ry Chuang	
Dete	ector	Peak	and Average					
110.0 dBu	uV/m							
						Limit1: Limit2:		
70								
	1							
30.0	1 X 0 1900.00 2800	.00 3700.00	4600.00 5500.00	6400.00	7300.00 8200.	00	10000.00 MHz	
1000.000	J 1300.00 2000	.00 3700.00	4600.00 5500.00	0400.00	7300.00 6200.	00	10000.00 MH2	
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	1833.000	42.53	-5.37	37.16	74.00	-36.84	peak	

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

### --End of Report--