

# **FCC Test Report**

### Report No.: AGC01125180408FE03

FCC ID	:	2AM9IPI0IOMTP00200
APPLICATION PURPOSE	ç	Original Equipment
PRODUCT DESIGNATION	Ń	Master Target
BRAND NAME	n of Glov	IOTargeting
MODEL NAME	:	PI0IOMTP00200, PI0IOMTA00200
CLIENT	0	IoTargeting, LLC.
DATE OF ISSUE	:	Jun. 07, 2018
STANDARD(S)	11	FCC Part 15.247
REPORT VERSION	1	V1.0

## Attestation of Global Compliance (Shenzhen) Co., Ltd

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### **REPORT REVISE RECORD**

Report Version Revise Time		Issued Date	Valid Version	Notes
V1.0		Jun. 07, 2018	Valid	Initial Release

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### **1. VERIFICATION OF COMPLIANCE**

Applicant	IoTargeting, LLC.				
Address	511 N Washington Ave, Marshall, Texas, USA 75670.				
Manufacturer	System Level Solutions (India) Pvt. Ltd				
Address	Plot#32, Zone-D/4, Phase-1, GIDC Estate,V.U. Nagar - 388 121, Gujarat, India				
Product Designation	Master Target				
Brand Name	IOTargeting				
Test Model	PI0IOMTP00200				
Series Model	PI0IOMTA00200				
Difference description	The series model contains front part of Enclosure made from Aluminum instead of Plastic. Two products had been pre-tested, the PI0IOMTP00200 was the worst case which recorded in the report				
Date of test	May 25, 2018 to Jun. 07, 2018				
Deviation	None				
Condition of Test Sample	Normal				
Test Result	Pass				
Report Template	AGCRT-US-BLE/RF				

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. 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 radiated emission limits of FCC part 15.247.

Tested By

Max Zhan

Max Zhang(Zhang Yi)

Jun. 07, 2018

**Reviewed By** 

BOR Nie

Bart Xie(Xie Xiaobin)

Jun. 07, 2018

Approved By

owels e

Forrest Lei(Lei Yonggang)

Authorized Officer

Jun. 07, 2018

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### 2.GENERAL INFORMATION

### 2.1PRODUCT DESCRIPTION

The EUT is designed as a "Master Target". It is designed by way of utilizing the O-QPSK technology to achieve the system operation.

A major technical description of EUT is described as following

line	
Operation Frequency	2405~2480MHZ
RF Output Power	7.831dBm(Max)
Modulation	O-QPSK
Number of channels	16 Channel
Antenna Designation	PCB Antenna
Antenna Gain	-3dBi
Hardware Version	REV1B
Software Version	V1.0
Power Supply	DC 6V by battery

### **2.2. TABLE OF CARRIER FREQUENCYS**

Frequency Band	Channel Number	Frequency		
Engender a Cloud	0	2405MHZ		
		2410MHZ		
2400~2483.5MHZ	The the second s	a Company		
Comparison Const Contraction	GC 14	2475MHZ		
GC TO SCO	15	2480MHZ		

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#### 2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AM9IPI0IOMTP00200 filing to comply with the FCC Part 15.247 requirements.

#### 2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

### 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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### **3. MEASUREMENT UNCERTAINTY**

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB

- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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### **4. DESCRIPTION OF TEST MODES**

NO.	TEST MODE DESCRIPTION
The second states 1	Low channel TX at 2405MHz
© 2	Middle channel TX at 2440MHz
3	High channel TX at 2475MHz
4	High channel TX at 2480MHz

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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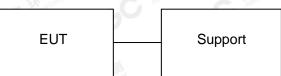


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### **5. SYSTEM TEST CONFIGURATION**

### **5.1 CONFIGURATION OF TESTED SYSTEM**



### **5.2 EQUIPMENT USED IN TESTED SYSTEM**

ltem	Equipment	Model	ID	Remark	
1	Master Target	PI0IOMTP00200	2AM9IPI0IOMTP00200	EUT	

### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247	Peak Output Power	Compliant
15.247	.247 6 dB Bandwidth	
6 15.247	Conducted Spurious Emission and Band Edges	Compliant
15.247 Maximum Conducted Output Power Density		Compliant
15.247&15.209	Radiated Emission	Compliant

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### 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 20, 2017	Jun. 19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec .08, 2017	Dec. 07, 2018
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 20, 2017	Jun. 19, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 20, 2017	Sep. 19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep. 15, 2017	Sep. 14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar. 01, 2018	Feb. 28, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 20, 2017	Jun. 19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2018

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### 7. PEAK OUTPUT POWER

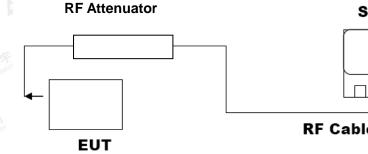
### 7.1. MEASUREMENT PROCEDURE

For peak power test:

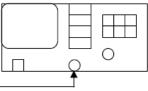
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



Spectrum Analyzer



**RF** Cable

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PEAK OUTPUT POWER MEASUREMENT RESULT							
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail				
2.405	7.072	30	Pass				
2.440	7.785	30	Pass				
2475	7.831	30	Pass				
2.480	-7.709	30	Pass				

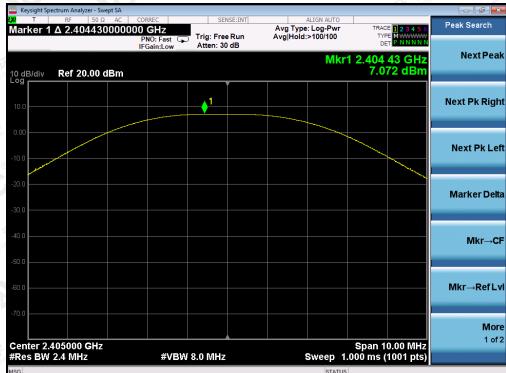
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2405MHz



2440MHz



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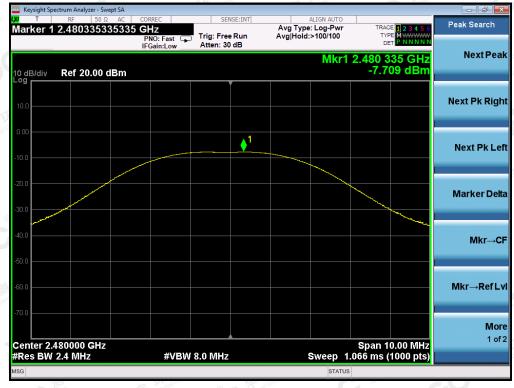




2475MHz



2480MHz



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### 8.6 DB BANDWIDTH

### **8.1. MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\ge$ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### **8.3. LIMITS AND MEASUREMENT RESULTS**

	LIMITS AND MEASU	REMENT RESULT	
Annlinghla Limita		Applicable Limits	
Applicable Limits	Test Data	(MHz)	Criteria
THE AND	2405	1.525	PASS
>500KHZ	2440	1.246	PASS
	2475	1.297	PASS
	2480	1.582	PASS

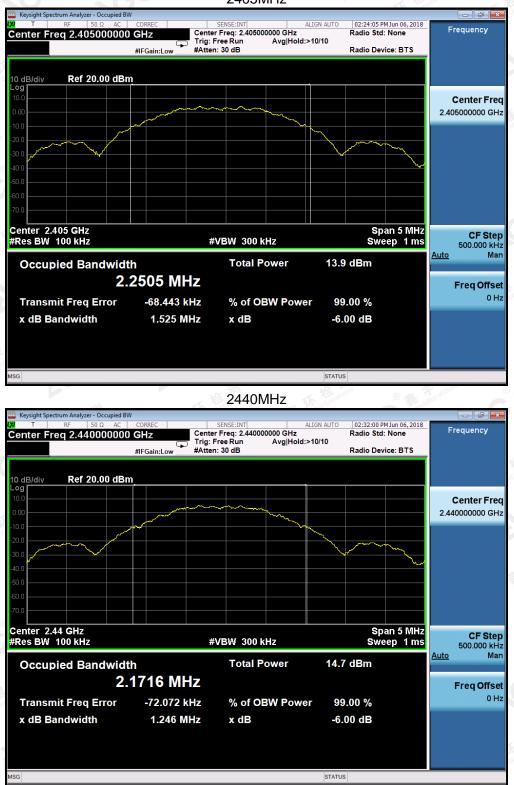
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2405MHz



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2475MHz



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### 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Ampliantia	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS				

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### TEST RESULT FOR ENTIRE FREQUENCY RANGE

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2440MHz Display Avg Type: Log-Pwr Avg|Hold:>100/100 Display Line -14.43 dBm TYF Trig: Free Run Atten: 30 dB PNO: Wide 😱 Annotation Mkr2 2.440 185 GHz 5.570 dBm Ref 20.00 dBm 10 dB/div Title Graticule Display Line -14.43 dBm <u> On</u> Off **Display Lines** System Display Settings Center 2.440000 GHz #Res BW 100 kHz Span 10.00 MHz Sweep 1.066 ms (1000 pts) #VBW 300 kHz Frequency Avg Type: Log-Pwi Avg|Hold:>100/100 Start Freq 30.000000 MHz Trig: Free Run Atten: 30 dB PNO: Fast 😱 IFGain:Low Auto Tune Mkr1 7.318 2 GHz -50.952 dBm 0 dB/div Ref 20.00 dBm **Center Fred** 12.515000000 GHz Start Fred 30.000000 MHz Stop Freq 25.00000000 GH; **CF** Step 2.497000000 GH Auto Mar **Freq Offset** 0 Hz Scale Type Start 30 MĤz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.388 s (30000 pts) Log Lin #VBW 300 kHz

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2475MHz Display Avg Type: Log-Pwr Avg|Hold:>100/100 Display Line -14.74 dBm Trig: Free Run Atten: 30 dB PNO: Wide 😱 Annotation Mkr1 2.474 655 GHz 5.260 dBm Ref 20.00 dBm 10 dB/div Title Graticule Display Line -14.74 dBm <u> On</u> Off **Display Lines** System Display Settings Center 2.475000 GHz #Res BW 100 kHz Span 10.00 MHz Sweep 1.066 ms (1000 pts) #VBW 300 kHz Peak Search Marker 2 7.426360545352 GHz PNO: Fast IFGain:Low Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB **Next Pea** Mkr2 7.426 4 GHz -46.952 dBm 0 dB/div Ref 20.00 dBm Next Pk Right Next Pk Lef Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 30 MHz #Res BW 100 kHz Stop 25.00 GHz 2.388 s (30000 pts) #VBW 300 kHz Sweep

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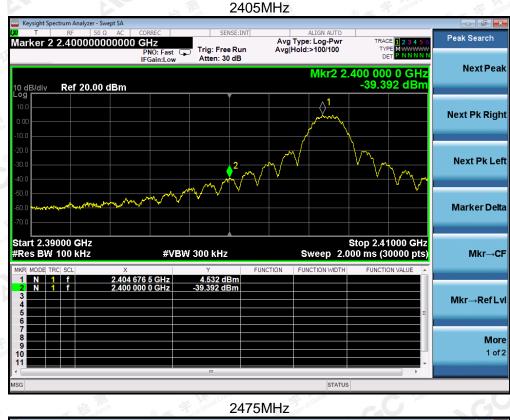


2480MHz Display Avg Type: Log-Pwr Avg|Hold:>100/100 Display Line -20.68 dBm Trig: Free Run #Atten: 20 dB PNO: Wide 😱 Annotation Mkr1 2.479 685 GHz -10.683 dBm Ref 10.00 dBm 10 dB/div Title Graticule Display Line -20.68 dBm <u> On</u> Of **Display Lines** System Display Settings Center 2.480000 GHz #Res BW 100 kHz Span 10.00 MHz Sweep 1.066 ms (1000 pts) #VBW 300 kHz Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 larker 1 4.960907030234 GHz Trig: Free Run #Atten: 20 dB PNO: F Next Peal Mkr1 4.960 9 GHz -62.196 dBm dB/div Ref 10.00 dBm Next Pk Right Next Pk Lef Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 30 MHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.388 s (30000 pts #VBW 300 kHz

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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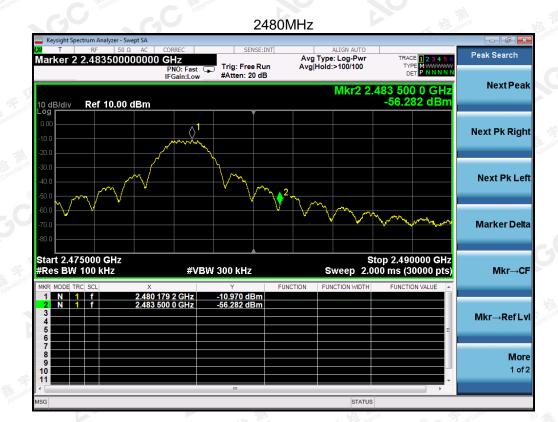
### TEST RESULT FOR BAND EDGE

Avg Type: Log-Pwr Avg|Hold:>100/100 Frequency Freq 2.470000000 GHz Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low Auto Tune Mkr2 2.483 500 0 GHz -54.166 dBm Ref 20.00 dBm 0 dB/di .og **Center Freq** 2.48000000 GH; Start Freq 2.470000000 GHz Stop Freq 2.49000000 GHz Stop 2.49000 GHz 2.000 ms (30000 pts) Start 2.47000 GHz #Res BW 100 kHz CF Step 2.000000 MHz #VBW 300 kHz Sweep Mar Auto 2.474 676 2 GHz 2.483 500 0 GHz <u>5.643 dBm</u> -54.166 dBm Freq Offset 0 H; Scale Type Log Lin STATUS

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### **10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY**

### **10.1 MEASUREMENT PROCEDURE**

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

### **10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)**

Refer To Section 7.2.

### **10.3 MEASUREMENT EQUIPMENT USED**

Refer To Section 6.

### **10.4 LIMITS AND MEASUREMENT RESULT**

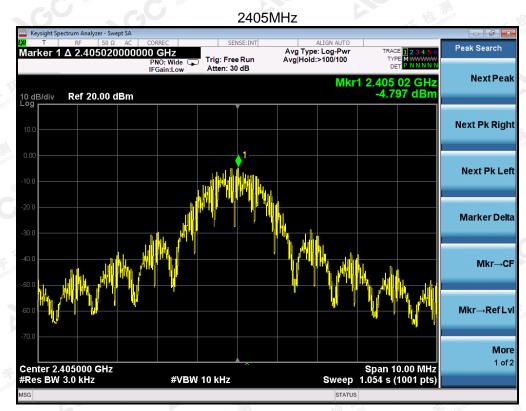
Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2405MHz	-4.797	8 6	Pass
2440MHz	-3.018	8	Pass
2475MHz	-3.364	8	Pass
2480MHz	-20.162	8.0	Pass

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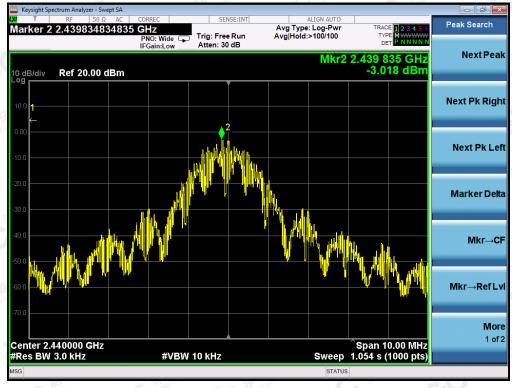








2440MHz



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2480MHz



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### **11. RADIATED EMISSION**

### 11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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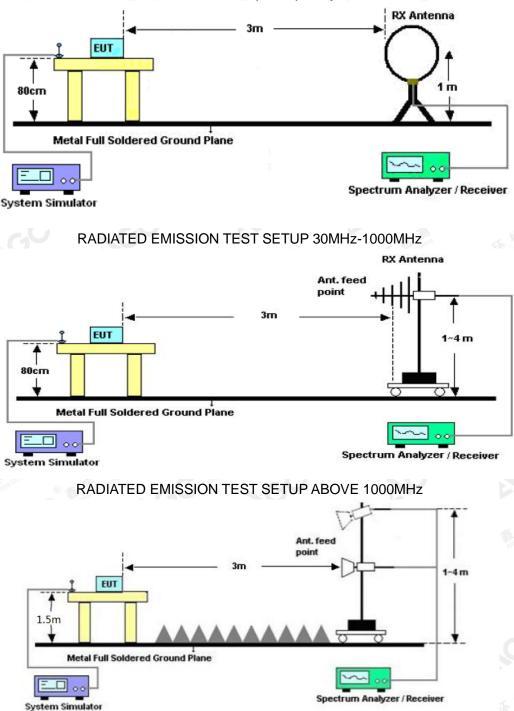


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### 11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



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### **11.3. LIMITS AND MEASUREMENT RESULT**

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	30		
30~88		3		
88~216	150	3		
216~960	200	0 5 3 - C		
Above 960	500	3		

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

### 11.4. TEST RESULT

### **RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

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Stational C		RADIA		BELOW IGHZ	Labience to the ware
EUT	Ν	Aaster Target		Model Name	PI0IOMTP00200
Temperature	2	25° C	C The Fond Contra	Relative Humidity	55.4%
Pressure	9	60hPa	C Meen	Test Voltage	Normal Voltage
Test Mode	Ν	Node 4	the THE	Antenna	Horizontal
[dB(	μV/m)] 100 _		: : 1		
	90 E				
	80				The second
	70				
Q T Todawar	60				
Level	50				
	40				G States
	30	- margan R			
	20 5-4		Auger and a second second second	dine	
	10 0				0 the Frederic Conner
	30	50	100 Eroov	500	1000 [MHz]
HEL MORE			Freque	ency	נצחוט

RADIATED	EMISSION	BELOW	1GHZ

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
67.345	H	8.1	15.1	23.2	40.0	16.8	Pass	150.0	73.5
161.920	H Contra Contra	7.6	16.6	24.2	43.5	19.3	Pass	150.0	219.8
202.660	нC	11.3	13.6	24.9	43.5	18.6	Pass	200.0	90.9
215.755	H	16.6	14.3	30.9	43.5	12.6	Pass	100.0	337.4
263.770	H There	12.8	16.1	28.9	46.0	17.1	Pass	100.0	258.9
999.030	СН	5.9	31.1	37.0	54.0	17.0	Pass	100.0	337.4

**RESULT: PASS** 

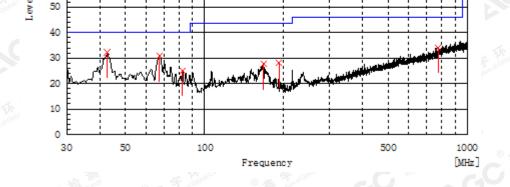
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#### Report No.: AGC01125180408FE03 Page 33 of 44

EUT	Master Target	Model Name	PI0IOMTP00200 55.4%		
Temperature	25° C	Relative Humidity			
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 4	Antenna	Vertical		
[dB( µ V/m 100 90			C State		
Burner Connector					



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.610	V	14.9	17.4	32.3	40.0	7.7	Pass	100.0	250.6
67.345	The Color	15.7	15.1	30.8	40.0	9.2	Pass	200.0	90.1
82.380	v C	12.6	12.3	24.9	40.0	15.1	Pass	200.0	341.8
167.740	V	11.5	16.1	27.6	43.5	15.9	Pass	150.0	322.7
191.990	V Share	14.5	13.7	28.2	43.5	15.3	Pass	150.0	71.4
775.445	V	5.9	28.2	34.1	46.0	11.9	Pass	150.0	107.2

#### RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

### **RADIATED EMISSION ABOVE 1GHZ**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.035	46.12	7.12	53.24	74	-20.76	peak 👘
4804.035	41.54	7.12	48.66	54	-5.34	AVG
7206.028	42.96	9.84	52.8	74	-21.2	peak
7206.028	36.03	9.84	45.87	54	-8.13	AVG
Ton of Globa	O . Global	C ation of C		- 6		
Attesta	Attestatio	Aller			-	107-
Remark:					15 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	The Hermoniance
actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.	a T	hobal come	F of Global
		NEL ance	EK Complian	C Allon of		Hestallu

Ins	the temper	augsla.	
EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading		Emission Level	Limits	Margin 🍏	
(MHz)	(dBµV)	(dB) 🕥 🧃	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.035	44.02	7.12	51.14	74	-22.86	peak
4804.035	39.61	7.12	46.73	54	-7.27	AVG
7206.028	43.15	9.84	52.99	74	-21.01	peak
7206.028	38.22	9.84	48.06	54	-5.94	AVG
	The Compliance	The state of the state	C Anton of Control		in d Glov	<u>6</u>
emark: 🔬	Store Com	testation of a	e.G	RV I		
actor = Ante	enna Factor + C	able Loss – F	Pre-amplifier		<i>P</i>	lin

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Master Target	Model Name	PI0IOMTP00200	
Temperature	25° C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 2	Antenna	Horizontal	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.065	45.93	7.12	53.05	74	-20.95	🔬 peak
4880.065	42.18	7.12	49.3	54	-4.7	AVG
7320.115	40.62	9.84	50.46	74	-23.54	peak
7320.115	34.19	9.84 🔬	44.03	54	-9.97	AVG
a) a footgobal	Global Co	C E Honol GC				
Attestatio	Allestation	Attesu	<b>B</b>			line
Remark:					in the second	the poliance
actor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.	. 3	r al Compile	Global Cu
		- 11111	·	di de s		

EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.052	41.58	7.12	48.7	74	-25.3	peak
4880.052	37.12	7.12	44.24	54	-9.76	AVG
7320.013	42.2	9.84	52.04	74	-21.96	peak
7320.013	36.85	9.84	46.69	54	-7.31	AVG
® the	FAC DE CONT	Flatton Clobal	a California a california	Autosu		
emark:						-10
actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.	No The	1	Kanplance (

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4950.065	46.13	7.12	53.25	(dbµ (////) 74	-20.75	< peak
4950.065	41.92	7.12	49.04	54	-4.96	AVG
7425.058	40.66	9.84	50.5	74	-23.5	peak
7425.058	39.14	9.84 🔬	48.98	54	-5.02	AVG
F of Global	Global Co	C 5 Jun of Gr				
Attestatio	Allestation	Alleste				liter
emark:						
actor = Ante	enna Factor + Ca	ble Loss – P	Pre-amplifier.	1	Compione	F Global Contr

EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Sactor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB) 🔍 🧃	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4950.065	42.89	7.12	50.01	74	-23.99	peak
4950.065	40.12	7.12	47.24	54	-6.76	AVG
7425.058	43.55	9.84	53.39	74	-20.61	peak
7425.058	39.18	9.84	49.02	54	-4.98	AVG
	The company	F Global Compliance	Co and along along	R Attest	noto	
Remark:	tion of Guilling	e station -	20 .	G		
actor = Ante	enna Eactor + C	able Loss – E	Pre-amplifier			112-

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.065	42.54	7.12	49.66	74	-24.34	peak 👘
4960.065	37.25	7.12	44.37	54	-9.63	AVG
7440.058	38.25	9.84	48.09	74	-25.91	peak
7440.058	34.25	9.84	44.09	54	-9.91	AVG
Find Globa	Q . Global	® aton of Gr		- 6		
Attesta	Attestation	Autor				litte:
Remark:		2			15 mg	the mpliance
actor = Ante	enna Factor + Ca	able Loss – F	re-amplifier.	12 7	to bal comv	F Globalo
			- N=> 1121		7	and tallo

EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

			inance	Ch comb		S at Gid
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.084	40.25	7.12	47.37	74	-26.63	peak
4960.084	35.12	7.12	42.24	54	-11.76	AVG
7440.065	37.15	9.84	46.99	74	-27.01	peak
7440.065	33.19	9.84	43.03	54	-10.97	AVG
	The same	The tel plance	and the second	8 <b>5</b>	on of Gou	G <sup>m</sup>
	St al Contr	Global	The station	Allesin		

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

### RESULT: PASS

### Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS







**RESULT: PASS** 

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
	The second comments	PK	



AV



**RESULT: PASS** 

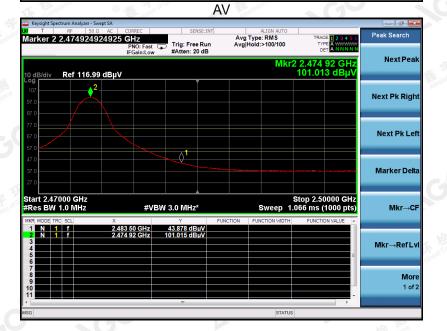
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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





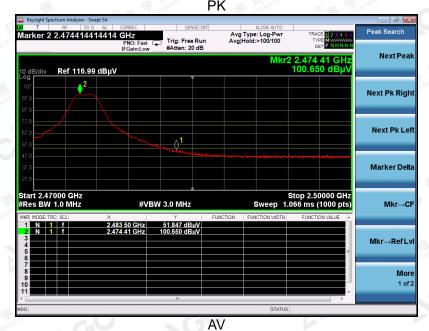
**RESULT: PASS** 

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





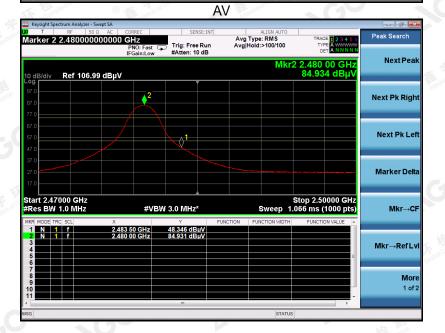
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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal





### **RESULT: PASS**

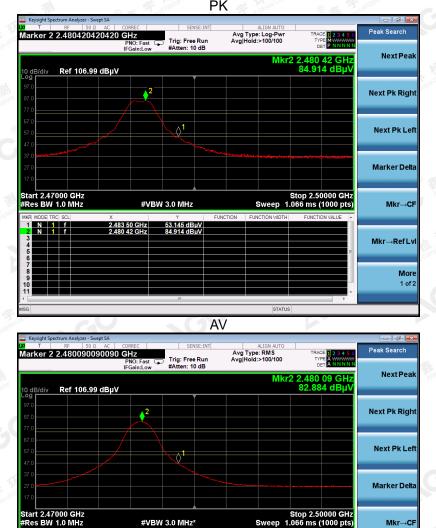
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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



### **RESULT: PASS**

**Note**: 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.

2.483 50 GHz 2.480 09 GHz 46.492 dBu

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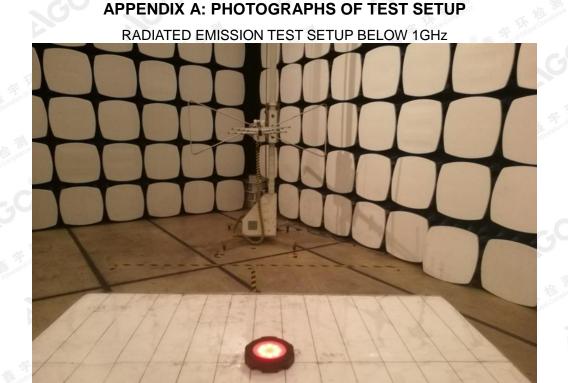
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

Mkr→RefLv

More



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RADIATED EMISSION TEST SETUP ABOVE 1GHz



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