FCC Test Report

Report No.: AGC10288170701FE05

FCC ID	:	2AM9IPI0I0MT000100
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Master Target
BRAND NAME	:	IOTargeting
MODEL NAME	:	PI0IOMT000100
CLIENT	:	IoTargeting, LLC.
DATE OF ISSUE	:	July 11, 2017
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.247 KDB 558074 D01 DTS Meas Guidance v04
REPORT VERSION	:	V1.0



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	July 11, 2017	Valid	Original Report	

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RELATED SUBMITTAL(S) / GRANT (S)	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES	
2.6. EQUIPMENT MODIFICATIONS	7
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	9
5.1. CONFIGURATION OF EUT SYSTEM	9
5.2. EQUIPMENT USED IN EUT SYSTEM	9
5.3. SUMMARY OF TEST RESULTS	9
6. TEST FACILITY	
7. OUTPUT POWER	11
7.1. MEASUREMENT PROCEDURE	11
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
7.3. LIMITS AND MEASUREMENT RESULT	
8. 6 DB BANDWIDTH	14
8.1. MEASUREMENT PROCEDURE	14
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	14
8.3. LIMITS AND MEASUREMENT RESULTS	15
9. CONDUCTED SPURIOUS EMISSION	17
9.1. MEASUREMENT PROCEDURE	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	

Report No.: AGC10288170701FE05 Page 4 of 44

10.1 MEASUREMENT PROCEDURE	
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3 MEASUREMENT EQUIPMENT USED	
10.4 LIMITS AND MEASUREMENT RESULT	23
11. RADIATED EMISSION	25
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT	
11.4. TEST RESULT	27
12. BAND EDGE EMISSION	33
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SET-UP	33
12.3. TEST RESULT	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	

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	PI0IOMT000100		
Date of test	July 08, 2017 to July 11, 2017		
Deviation	None		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BGN/RF		

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service 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 Rules Part 15.247.

Now 2hang Tested by Max Zhang(Zhang Yi) July 11, 2017 BOR Nie Reviewed by Bart Xie(Xie Xiaobin)) July 11, 2017 Approved by Solger Zhang(Zhang Hongyi) July 11, 2017 Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

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

A major technical description of EUT is described as following

Operation Frequency	2.410 GHz~2.475GHz
Output Power	7.793dBm(Peak)
Modulation	OQPSK
Number of channels	14
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	Fixed Antenna (Met 15.203 Antenna requirement)
Antenna Gain	-3dBi
Power Supply	DC 6V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency		
	1	2410 MHZ		
	2	2415 MHZ		
	3	2420 MHZ		
	4	2425 MHZ		
	5	2430 MHZ		
	6	2435 MHZ		
	7	2440 MHZ		
2400~2483.5MHZ	8	2445 MHZ		
	9	2450 MHZ		
	10	2455 MHZ		
	11	2460 MHZ		
	12	2465 MHZ		
	13	2470 MHZ		
	14	2475 MHZ		

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

This submittal(s) (test report) is intended for **FCC ID: 2AM9IPI0IOMT000100** filing to comply with the FCC Part 15 requirements.

2.4. TEST 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.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v04.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Master Target	PI0IOMT000100	2AM9IPI0IOMT000100	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location Building D, Baoding Technology Park, Guangming Road2, Dongcheng Distr Dongguan, Guangdong, China.	
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site						
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2017	July 3, 2018	
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2017	July 3, 2018	
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2017	July 3, 2018	
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2017	July 3, 2018	
3m Anechoic Chamber	CHENGYU	966	PTS-001	July 4, 2017	July 3, 2018	
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A	
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2017	June 5, 2018	
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2017	June 5, 2018	
Power Sensor	Agilent	U2021XA	MY55050474	June 2, 2017	June 1, 2018	
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 2, 2017	June 1, 2018	
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 2, 2017	June 1, 2018	

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

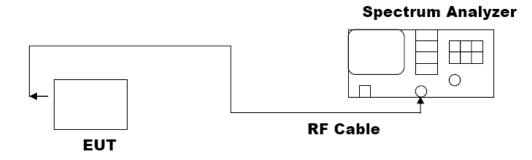
For peak power test:

- 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.

Note : The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION							
Frequency (GHz)	Frequency Peak Power Applicable Limits Pass or Fail						
2.410	7.738	30	Pass				
2.445	7.248	30	Pass				
2.475	7.793	30	Pass				

7.3. LIMITS AND MEASUREMENT RESULT

Low Channel

🔤 Keysight Spectrum Analyzer - Swept SA 👘			
₩ T RF 50 Ω AC Marker 1 2.409320000000	GH7	ALIGN AUTO Avg Type: Log-Pwr TRACE 1234	Peak Search
Marker 1 2.40352000000	PNO: Fast IFGain:Low #Atten: 30 dB	Avg Hold:>100/100 TYPE MWWW DET P NNN	
10 dB/div Ref 20.00 dBm		Mkr1 2.409 32 GI 7.738 dB	lz NextPeak m
10.0	1		Next Pk Right
-10.0			Next Pk Left
-20.0			Marker Delta
-40.0			Mkr→CF
-60.0			Mkr→RefLvl
-70.0 Center 2.410000 GHz		Span 10.00 M Sweep 1.000 ms (1001 p	More 1 of 2
#Res BW 2.7 MHz	#VBW 8.0 MHz	Sweep 1.000 ms (1001 p	ts)



Middle Channel

High Channel

Мо										70.0
/lkr→RefL	M									60.0
										50.0
Mkr→0										40.0
Aarker De										30.0
										0.0
Next Pk Lo	N									10.0
										0.00
ext Pk Rig	Ne				▲ 1					og 10.0
NextPe) GHz dBm	1 2.474 39 GH: 7.793 dBn	Mkr1				dBm	ef 20.00 d	3/div	0 dE
	123456 1000000000000000000000000000000000000	DET PNNN	:>100/100	Avg Type Avg Hold:	Trig: Fre #Atten: 3	GHZ PNO:Fast ⊂ ⊫FGain:Low		47439000	ker 1 2	ar
ak	23456 1000000000000000000000000000000000000	TRACE 12345 TYPE MWWWW DET PNNN	ALIGN AUTO e: Log-Pwr :>100/100	Avg Type	Trig: Fre	PNO: Fast	2 AC 00000 C	m Analyzer - Swe RF 50 Ω 47439000	Т	

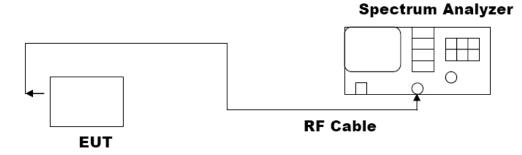
8.6 DB BANDWIDTH

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 KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

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

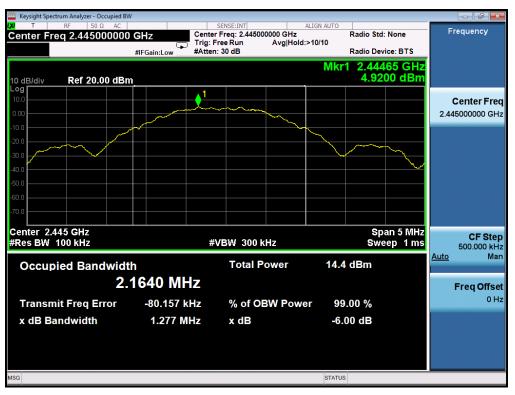


8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT						
Annlinghla Limita	Applicable Limits					
Applicable Limits	Test Da	Criteria				
	Low Channel	1655	PASS			
>500KHZ	Middle Channel	1277	PASS			
	High Channel	PASS				

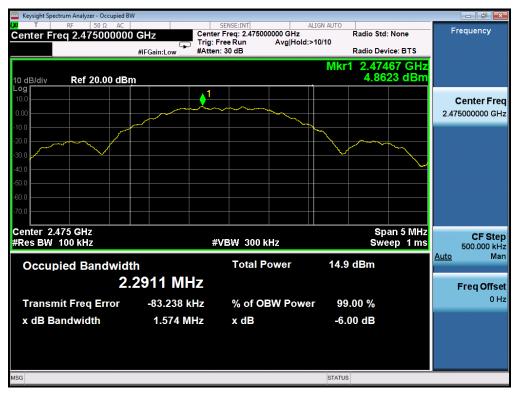
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

Keysight Spectrum Analyzer - Occupied BW					
X T RF 50 Ω AC Center Freq 2.410000000	Trig: F	SENSE:INT A r Freq: 2.410000000 GHz Free Run Free Run Avg Hold:> n: 30 dB Free Run	LIGN AUTO Radio Sto •10/10 Radio De		Frequency
10 dB/div Ref 20.00 dBm			Mkr1 2.409 3.96	665 GHz 15 dBm	
0.00		~~~~~~			Center Freq 2.410000000 GHz
-10.0				hand	
-40.0					
-70.0					
Center 2.41 GHz #Res BW 100 kHz	#	VBW 300 kHz		oan 5 MHz eep 1 ms	CF Step 500.000 kHz
Occupied Bandwidt		Total Power	14.6 dBm		<u>Auto</u> Man
2.4	4454 MHz				Freq Offset
Transmit Freq Error	-80.101 kHz	% of OBW Powe	r 99.00 %		0 Hz
x dB Bandwidth	1.655 MHz	x dB	-6.00 dB		
MSG			STATUS		



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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 KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

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

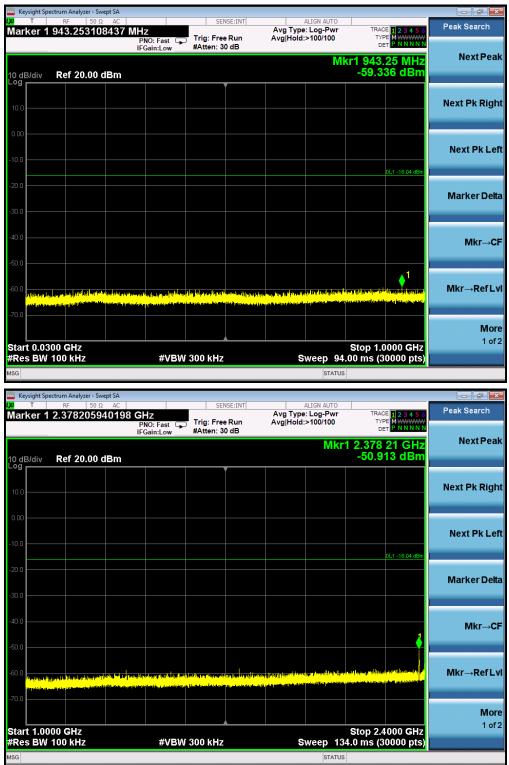
The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT							
Applieghte Limite	Measurement Re	sult					
Applicable Limits	Test Data	Criteria					
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit						
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS					
intentional radiator is operating, the radio frequency	Channel						
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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS					



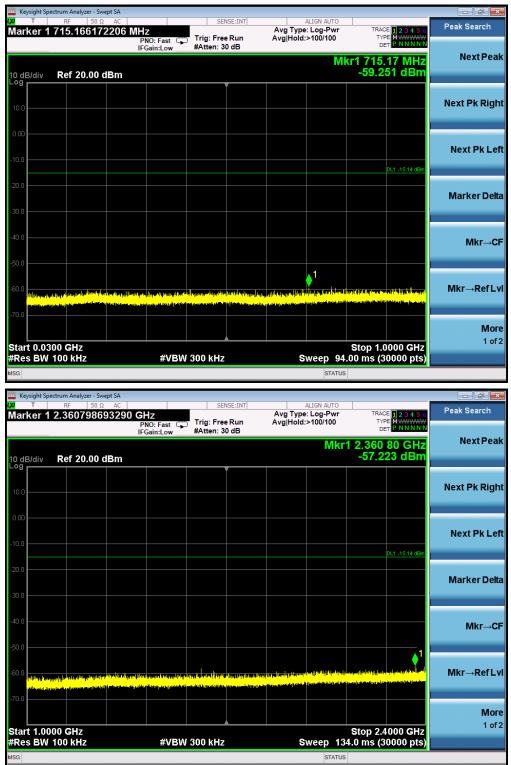
TEST PLOT OF OUT OF BAND EMISSIONS FOR LOW CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL

								m Analyzer - Sw	ysight Spect	- Ke
Peak Search	CE 1 2 3 4 5 6 PE MWWWW T P N N N N N	TY	align auto : Log-Pwr >100/100			Z NO:Fast ⊂ Gain:Low	PI	RF 50 Ω 52.56541	t ker 1 9	″ Nar
NextPea	.57 MHz 02 dBm	r1 952 -58.4	Mk				lBm	ef 20.00 o	B/div	0 di
Next Pk Rig										10.0
Next Pk Le										0.00 10.0
Marker Del	DL1 -15.08 dBm									20.0
Mkr→C										30.0 40.0
Mkr→RefL	↓ ¹									50.0 50.0
Мо			under fahren half sen het fahren fahren sen som					y Lang ang sang sang sang sang sang sang sa		70.0
1 of	0000 GHz 0000 pts)	Stop 1.0 00 ms <u> (3</u>	weep 94.0	s	300 kHz	#VBW			t 0.030 s BW 1	
			STATUS							SG

Keysight Spectrum Analyzer - Swept SA T RF 50 Ω AC		SENSE:INT		LIGN AUTO			Back Secret
larker 1 1.88002266742	2 GHz PNO: Fast 😱 1	Frig: Free Run	Avg Type: Avg Hold:	Log-Pwr	TRACE	123456 MWWWWW PNNNNN	Peak Search
		Atten: 30 dB	al. ear				Haut Da
				Mkr1	1.880)2 GHz	NextPea
og Ref 20.00 dBm					-36.64	7 dBm	
10.0							Next Pk Rig
).00							
10.0							Next Pk L
0.0					c	L1 -15.08 dBm	
20.0							
							Marker De
80.0							
10.0							Mkr→0
50.0							
			↓ ¹				
60.0			1. ANTERING STREET	, inder to be a set	Antidal and the	an a	Mkr→RefL
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70.0							
							Mo
tart 1.0000 GHz					Stop 2.4	000 GHz	1 o
Res BW 100 kHz	#VBW 3	00 kHz	S	weep 134.	.0 ms (30	000 pts)	
	#VBW 31	00 kHz	St	weep 134. status	.0 ms (30	1000 pts)	
Res BW 100 kHz	#VBW 31	00 kHz	SI	weep 134.	.0 ms (30	1000 pts)	
Res BW 100 kHz sq keysight Spectrum Analyzer - Swept SA T RF 50 \Overline{O} AC		00 kHz	A	Neep 134. Status		1000 pts)	Peak Search
Res BW 100 kHz sq keysight Spectrum Analyzer - Swept SA T RF 50 \Overline{O} AC	03 GHz PNO: Fast 😱	SENSE:INT		STATUS		1000 pts)	Peak Search
Res BW 100 kHz SG Keysight Spectrum Analyzer - Swept SA T RF 50 Ω AC	03 GHz	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LOG-Pwr >100/100	TRACE TYPE DE1	123456 MWWWWW PNNNN	Peak Search
Res BW 100 kHz ag Keysight Spectrum Analyzer - Swept SA T RF 50 Q AC larker 1 24.1503490783(0 dB/div Ref 20.00 dBm	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LOG-Pwr >100/100	TRACE TYPE DE1 24.150	1000 pts)	Peak Search
Res BW 100 kHz ag Keysight Spectrum Analyzer - Swept SA T RF 50 Q AC larker 1 24.1503490783(0 dB/div Ref 20.00 dBm	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LOG-Pwr >100/100	TRACE TYPE DE1 24.150	123456 M P NNNN 3 GHz	Peak Search
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Res BW 100 kHz sa Keysight Spectrum Analyzer - Swept SA T RF S0 Ω AC Iarker 1 24.1503490783(O OB/div Ref 20.00 dBm	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LOG-Pwr >100/100	TRACE TYPE DE1 24.150	123456 M P NNNN 3 GHz	Peak Search Next Pea
Res BW 100 kHz sa Keysight Spectrum Analyzer - Swept SA T RF 50 Ω AC Iarker 1 24.1503490783(0 dB/div Ref 20.00 dBm 0 0 0.00	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LOG-Pwr >100/100	TRACE TYPE DE1 24.150	123456 M P NNNN 3 GHz	Peak Search Next Pea Next Pk Rig
Res BW 100 kHz 3G Keysight Spectrum Analyzer - Swept SA T RF 50 Ω AC Iarker 1 24.1503490783(0 dB/div Ref 20.00 dBm 0 0 0.00	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LOG-Pwr >100/100	ткасе Туре Deт 24.150 -36.90	12 3 4 5 6 M M 3 GHz 8 dBm	Peak Search Next Pea Next Pk Rig
Res BW 100 kHz sa Keysight Spectrum Analyzer - Swept SA T RF 50 Ω AC Itarker 1 24.15034907830 0 dB/div Ref 20.00 dBm 0 0 dB/div Ref 20.00 dBm	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type:	Weep 134. STATUS STATUS LIGN AUTO Status LIGN AUTO Status LIGN AUTO Status Status Status	ткасе Туре Deт 24.150 -36.90	123456 M P NNNN 3 GHz	Peak Search Next Pea Next Pk Rig
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Res BW 100 kHz sa Keysight Spectrum Analyzer - Swept SA T RF 50 Ω AC Itarker 1 24.15034907830 0 dB/div Ref 20.00 dBm 0 0 dB/div Ref 20.00 dBm	03 GHz PNO: Fast 😱	SENSE:INT	Avg Type: Avg Hold:2	Veep 134. STATUS	TRACE Type DET 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 100 kHz 3G Sectors T Ref 1arker 1 24.15034907830 0 dB/div Ref 20.00 dBm 9	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	And Network 1994	ткасе Туре Deт 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 100 kHz sq * Keysight Spectrum Analyzer - Swept SA T RE Tarker 1 24.1503490783(0 dB/div Ref 20.00 dBm 9	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	Veep 134. STATUS	TRACE Type DET 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 100 kHz sq * Keysight Spectrum Analyzer - Swept SA T RE T RE 0 dB/div Ref 20.00 dBm 0	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	And Network 1994	TRACE Type DET 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→0
Res BW 100 kHz sa Keysight Spectrum Analyzer - Swept SA T RF Jarker 1 24.1503490783(0 dB/div Ref 20.00 dBm	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	And Network 1994	TRACE Type DET 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→0
Res BW 100 kHz sq * Keysight Spectrum Analyzer - Swept SA T RE T RE 0 dB/div Ref 20.00 dBm 0	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	And Network 1994	TRACE Type DET 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→0
Res BW 100 kHz sq Keysight Spectrum Analyzer - Swept SA T T RF Jarker 1 24.1503490783(0 dB/div Ref 20.00 dBm 0 dB/div	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	And Network 1994	TRACE Type DET 24.150 -36.90	1000 pts) 12 3 4 5 6 WWWWWW P NNNN 3 GHz 8 dBm 1 -15 08 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→C
Res BW 100 kHz So Colspan="2">So Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2"	03 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run (Atten: 30 dB	Avg Type: Avg Hold:	And Network 1994	TRACE TYPE DET 224.150 -36.90	123455 MWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→C
Res BW 100 kHz 3G Keysight Spectrum Analyzer - Swept SA T T RF 10 Q Q 0 dB/div Ref 20.00 dBm 9 Q 10 Q Q <tr< td=""><td>03 GHz PNO: Fast 😱</td><td>SENSE:INT Irig: Free Run fAtten: 30 dB</td><td>Avg Type: Avg Hold:</td><td>And Network 1994</td><td>TRACE TYPE 24.150 -36.90</td><td>123455 PNNNN 3 GHZ 8 dBm</td><td></td></tr<>	03 GHz PNO: Fast 😱	SENSE:INT Irig: Free Run fAtten: 30 dB	Avg Type: Avg Hold:	And Network 1994	TRACE TYPE 24.150 -36.90	123455 PNNNN 3 GHZ 8 dBm	



TEST PLOT OF OUT OF BAND EMISSIONS FOR HIGH CHANNEL

🔤 Keysight Sp	ectrum Analyzer - Sw									
Marker 1	RF 50 Ω 24.979734		PNO: Fast 🗔	Trig: Free			ALIGN AUTO : Log-Pwr :>100/100	TYP	E 123456 E M WWWWW T P N N N N N	Peak Search
10 dB/div	Ref 20.00		FGain:Low	#Atten: 3	U dB		Mkr	1 24.97	~,	Next Peak
10.0										Next Pk Right
0.00										Next Pk Lef
20.0									DL1 -15.14 dBm	Marker Delta
40.0	n an a that a static call do	dans. t	din st		الديارية.		jalia da porta			Mkr→Cf
50.0 <mark>de tedi</mark> t 19.0				and the second						Mkr→RefLv
-70.0	3 GHz							Stop 2	5.00 GHz	More 1 of 2
#Res BW	1.0 MHz		#VBW	3.0 MHz		S		.00 ms (3	0000 pts)	
SG							STATUS			

Note: The 100kHz RBW used in the conducted spurious test from 2.4835GHz to 25GHz may result in long measuring times, To avoid such long measuring times, the 1MHz RBW can be used for pre-test. If the emission level exceeded the limit at one or more frequencies, the 100kHz RBW would be used for final test at the special frequency.

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 8.2.

10.3 MEASUREMENT EQUIPMENT USED

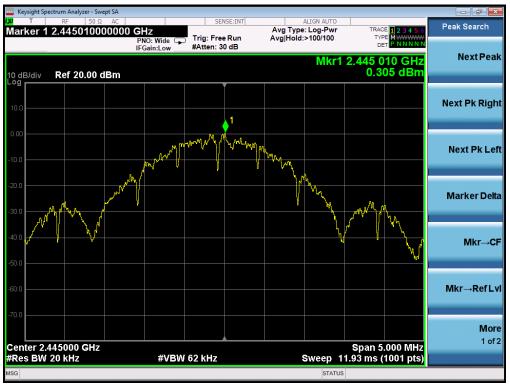
Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-2.242	8	Pass
Middle Channel	0.305	8	Pass
High Channel	-0.464	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



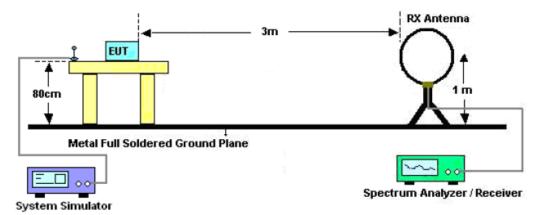
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

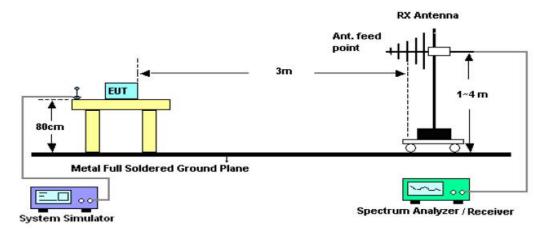
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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.

11.2. TEST SETUP

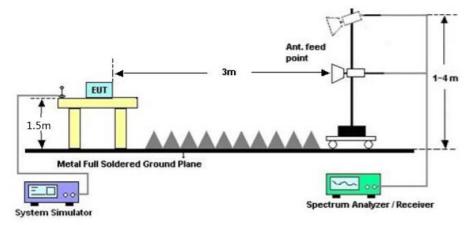
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) 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	30	30
30~88	100	3
88~216	150	3
216~960	200	3
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.

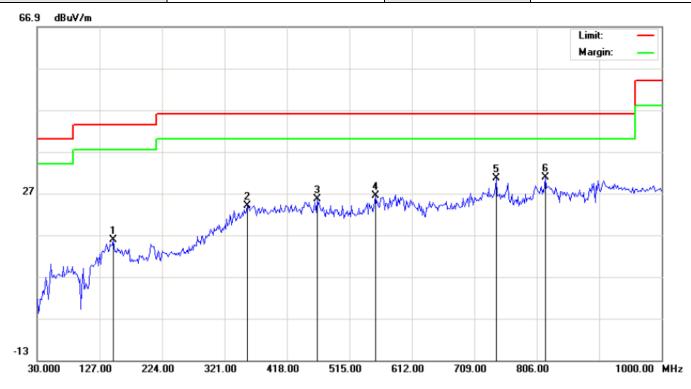
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		148.0166	2.52	13.25	15.77	43.50	-27.73	peak			
2		356.5667	5.30	18.78	24.08	46.00	-21.92	peak			
3		464.8833	4.86	20.75	25.61	46.00	-20.39	peak			
4		555.4166	3.81	22.62	26.43	46.00	-19.57	peak			
5		742.9500	4.25	26.43	30.68	46.00	-15.32	peak			
6	*	818.9333	3.45	27.32	30.77	46.00	-15.23	peak			

RESULT: PASS

EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

3. All test modes had been pre-tested. The Mode 1 is the worst case and recorded in the report.

RADIATED EMISSION ABOVE 1GHZ

EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4820.113	47.54	3.72	51.26	74	-22.74	peak
4820.075	42.65	3.72	46.37	54	-7.63	AVG
7230.098	40.24	8.15	48.39	74	-25.61	peak
7230.042	36.33	8.15	44.48	54	-9.52	AVG
			_			
Remark:	<u>ı</u>				<u>.</u>	<u>!</u>
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.			

EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4820.100	46.81	3.72	50.53	74	-23.47	peak
4820.086	42.15	3.72	45.87	54	-8.13	AVG
7230.102	40.54	8.15	48.69	74	-25.31	peak
7230.058	36.42	8.15	44.57	54	-9.43	AVG
Remark:						
Factor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.			

Report No.: AGC10288170701FE05 Page 31 of 44

EUT	MASTER TARGET	Model Name	PI0IOMT000100
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4890.031	47.55	3.75	51.3	74	-22.7	peak
4890.104	43.18	3.75	46.93	54	-7.07	AVG
7335.077	41.54	8.16	49.7	74	-24.3	peak
7335.064	36.87	8.16	45.03	54	-8.97	AVG
Remark:	<u>↓</u>		!			ļ
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.			

EUT	MASTER TARGET	Model Name	PI0IOMT000100
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype
4890.042	46.85	3.75	50.6	74	-23.4	peak
4890.092	41.64	3.75	45.39	54	-8.61	AVG
7335.047	40.51	8.16	48.67	74	-25.33	peak
7335.061	35.27	8.16	43.43	54	-10.57	AVG
Devee ender						
Remark:						
actor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.			

Report No.: AGC10288170701FE05 Page 32 of 44

EUT	MASTER TARGET	Model Name	PI0IOMT000100	
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	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4950.089	48.71	3.81	52.52	74	-21.48	peak	
4950.118	43.54	3.81	47.35	54	-6.65	AVG	
7425.035	41.38	8.19	49.57	74	-24.43	peak	
7425.060	36.54	8.19	44.73	54	-9.27	AVG	
Remark:							
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplitier.				

EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4950.049	47.71	3.81	51.52	74	-22.48	peak	
4950.027	42.68	3.81	46.49	54	-7.51	AVG	
7425.027	41.75	8.19	49.94	74	-24.06	peak	
7425.088	35.94	8.19	44.13	54	-9.87	AVG	
Remark:							
Factor = Ante	enna Factor + Ca	able Loss – I	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.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

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(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

12.3. TEST RESULT

EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



AV





EUT	MASTER TARGET	Model Name	PI0IOMT000100		
Temperature	25°C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 1	Antenna	Vertical		
PK					

Keysight Spectrum Analyzer - Swep. an T RF 50 Q AC larker 3 2.3777200000000 GHz PRO: Fast IFGain:Low Trig: Free Run Atten: 10 dB ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search TRACE 1 TYPE M DET P Mkr3 2.377 72 GHz 42.873 dBµV Next Peak Ref 106.99 dBµV 0 dB/div Next Pk Right Next Pk Left **€**³ ______² Marker Delta Start 2.34500 GHz #Res BW 1.0 MHz Stop 2.42500 GHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz Mkr→CF 2.409 88 GHz 2.390 00 GHz 2.377 72 GHz 95.600 dBµV 36.499 dBµV 42.873 dBµV Mkr→RefLv More 1 of 2 STATUS

	RF 50 Ω AC 3780400000		Trig: Free R Atten: 10 d	un A	vg Type	ALIGN AUTO : RMS >100/100	TYP	E 1 2 3 4 5 6 E A WWWW A N N N N N	Peak Search
0 dB/div R	ef 106.99 dB	ψV				Mkr	3 2.378 38.74	04 GHz 5 dBµV	Next Pea
.0g 97.0 87.0 77.0									Next Pk Rig
57.0 57.0			+3						Next Pk Le
37.0 27.0 17.0									Marker De
tart 2.34500 Res BW 1.0	MHz	#VE ×	W 3.0 MHz*	FUNCTION		weep 1	Stop 2.42 .000 ms (Mkr→0
1 N 1 1 2 N 1 1 3 N 1 1 4 5	1	2.409 88 GHz 2.390 00 GHz 2.378 04 GHz	94.088 dBµ\ 26.519 dBµ\ 38.735 dBµ\				Tonen	E	Mkr→RefL
6 7 8 9 0									Ма 1 о
G						STATU		•	

EUT	MASTER TARGET	Model Name	PI0IOMT000100		
Temperature	25°C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 3	Antenna	Horizontal		
PK					

Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer → Jengen T RF 150 R, AC arker 1 2.4743800000000 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 10 dB ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search TRACE 1 2 : TYPE M WA DET P N Next Peak Mkr1 2.474 38 GHz 96.094 dBµV Ref 106.99 dBµV dB/div Next Pk Right Next Pk Left Marker Delta Start 2.47000 GHz #Res BW 1.0 MHz Stop 2.50000 GHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz Mkr→CF N 1 f N 1 f 2.474 38 GHz 2.483 500 GHz 96.094 dBµV 45.432 dBµV Mkr→RefLv More 1 of 2

	STA
AV	
orner per	

Т	trum Analyzer - S RF 50 2.474950	Ω AC	GHz		ISE:INT	Avg Type		TRACI	1 2 3 4 5 6	Peak Search
0 dB/div	Ref 106.9	9 dBuV	PNO: Fast IFGain:Low	Atten: 10	Run dB	Avg Hold	1:>100/100 Mkr	DE 1 2.474	95 GHz 0 dBµV	NextPea
97.0 97.0										Next Pk Rig
57.0 57.0										Next Pk L
37.0 27.0 17.0										Marker De
tart 2.470 Res BW	1.0 MHz	X		SW 3.0 MHz	FUNC			Stop 2.50 .000 ms (1 FUNCTIO	001 pts)	Mkr→
1 N 1 2 N 1 3 4 5 6	f	2.483	4 95 GHz 500 GHz	93.828 dB 35.810 dB						Mkr→RefL
7 8 9 9 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									-	Мс 1 с
G				- 111			STATUS			

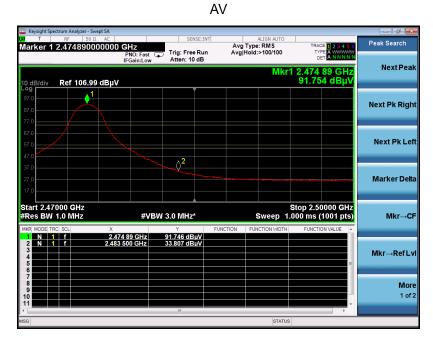
Report No.: AGC10288170701FE05 Page 37 of 44

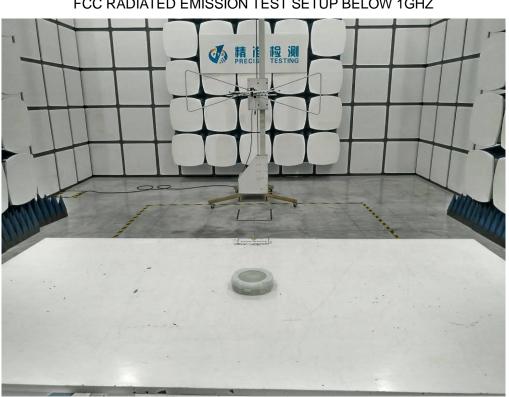
EUT	MASTER TARGET	Model Name	PI0IOMT000100
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

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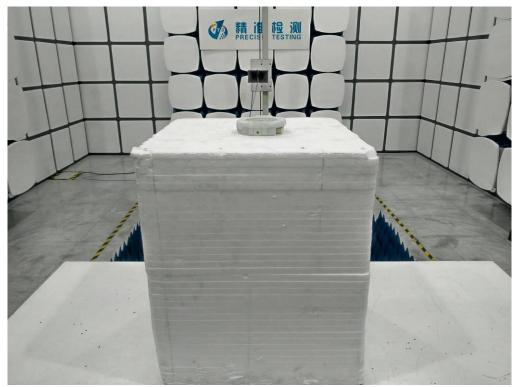




APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

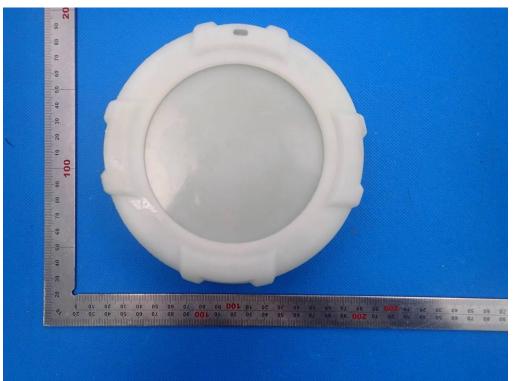
FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ





APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT

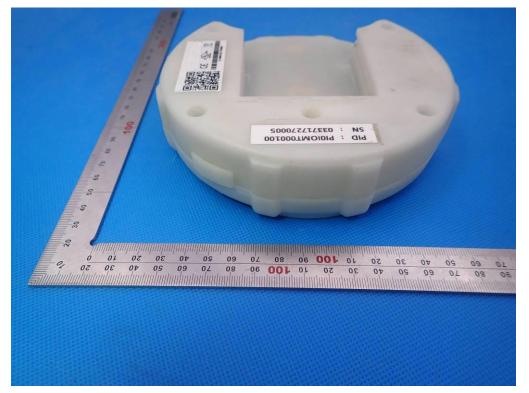
TOP VIEW OF EUT





BOTTOM VIEW OF EUT

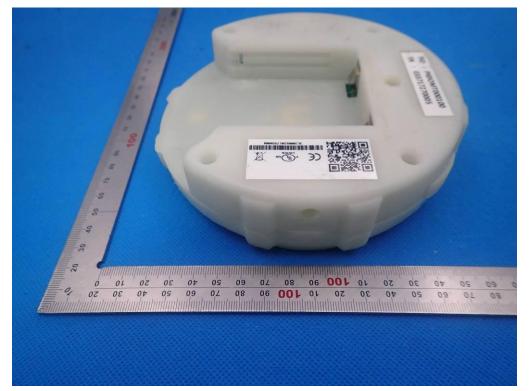
FRONT VIEW OF EUT





BACK VIEW OF EUT

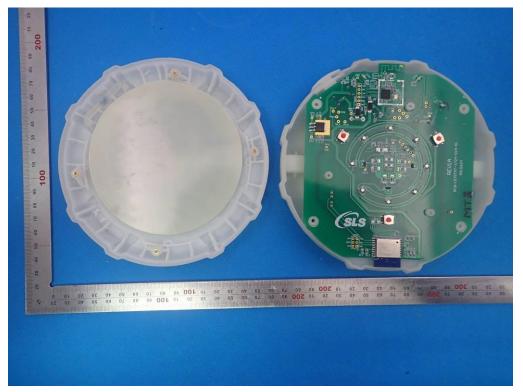
LEFT VIEW OF EUT





RIGHT VIEW OF EUT

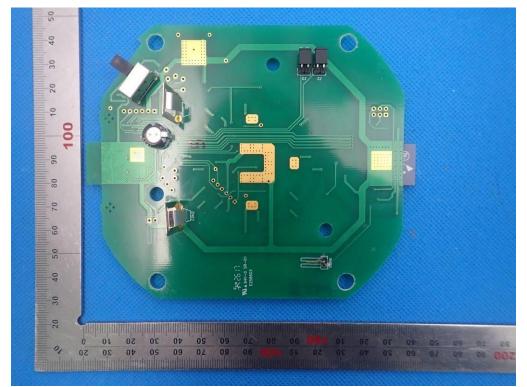
OPEN VIEW OF EUT

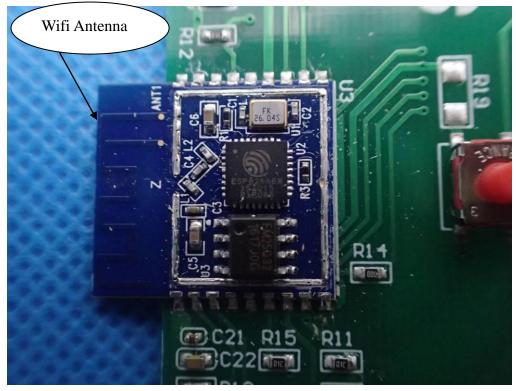




INTERNAL VIEW OF EUT-1

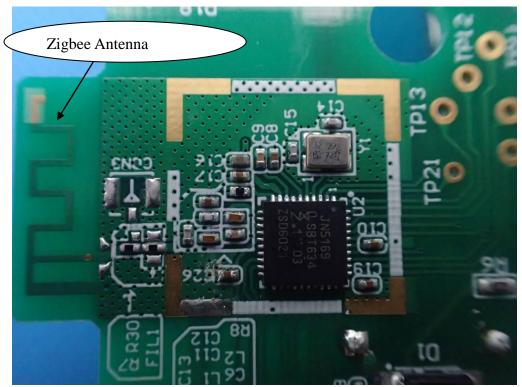
INTERNAL VIEW OF EUT-2





INTERNAL VIEW OF EUT-3

INTERNAL VIEW OF EUT-4



----END OF REPORT----