

> Report No.: GZCR210802094701 Page: 1 of 46 FCC ID: 2AAFASY-C51049W-04

TEST REPORT

Application No.:	GZCR2108020947AT				
Applicant:	DOUBLEEAGLE INDUSTRY (CHINA)LIMITED				
Address of Applicant:	XINGDA INDUSTRIAL PARK, CHENGHAI, SHANTOU CITY, GUANGDONG PROVINCE, CHINA				
Manufacturer:	DOUBLEEAGLE INDUSTRY (CHINA)LIMITED				
Address of Manufacturer:	XINGDA INDUSTRIAL PARK, CHENGHAI, SHANTOU CITY, GUANGDONG PROVINCE, CHINA				
Equipment Under Test (EUT)):				
EUT Name:	BUILDING BLOCK SERIES				
Model No.:	C51001W, C51002W, C51003W, C51004W, C51005W, C51006W, C51007W, C51008W, C51009W, C51010W, C51011W, C51012W, C51013W, C51014W, C51015W, C51016W, C51017W, C51018W, C51019W, C51020W, C51021W, C51022W, C51023W, C51024W, C51025W, C51026W, C51027W, C51028W, C51029W, C51030W, C51031W, C51032W, C51033W, C51034W, C51035W, C51036W, C51037W, C51038W, C51039W, C51040W, C51041W, C51042W, C51043W, C51044W, C51045W, C51046W, C51047W, C51048W, C51043W, C51050W, C51051W, C51052W, C51053W, C51054W, C51055W, C51056W, C51057W, C51058W, C51059W, C51060W, C51061W, C51062W, C51063W, C51064W, C51065W, C51066W, C51067W, C51068W, C51069W, C51070W, C51071W, C51072W, C51073W, C51074W, C51075W, C51076W, C51077W, C51078W, C51079W, C81001W				
*	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.				
Standard(s) :	47 CFR Part 15, Subpart C 15.249				
Date of Receipt:	2021-07-09				
Date of Test:	2021-08-12 to 2021-08-25				
Date of Issue:	2021-09-10				
Test Result:	Pass*				

* In the configuration tested, the EUT complied with the standards specified above.

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oke. Jun

Kobe Jian EMC Laboratory Manager



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	Revision Record						
Version Chapter Date Modifier Remark							
01		2021-09-10		Original			

Authorized for issue by		
	CJ Vu	
	Curry Wu/Project Engineer	
	Ridey Lin	
	Ricky Liu/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part						
ltem	Standard	Method	Requirement	Result		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	Subpart C 15.249	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass		
Radiated Emissions		ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

Model No.: C51001W, C51002W, C51003W, C51004W, C51005W, C51006W, C51007W, C51008W, C51009W, C51010W, C51011W, C51012W, C51013W, C51014W, C51015W, C51016W, C51017W, C51018W, C51019W, C51020W, C51021W, C51022W, C51023W, C51024W, C51025W, C51026W, C51027W, C51028W, C51029W, C51030W, C51031W, C51032W, C51033W, C51034W, C51035W, C51036W, C51037W, C51038W, C51039W, C51040W, C51041W, C51042W, C51043W, C51044W, C51045W, C51046W, C51047W, C51048W, C51049W, C51050W, C51051W, C51052W, C51053W, C51054W, C51055W, C51056W, C51057W, C51058W, C51059W, C51060W, C51061W, C51062W, C51063W, C51064W, C51065W, C51066W, C51067W, C51068W, C51069W, C51070W, C51071W, C51072W, C51073W, C51074W, C51075W, C51076W, C51077W, C51078W, C51079W, C81001W

Only the model C51049W was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color, appearance and package.



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EMC-TRF-01 Rev 1.0

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4 **General Information**

Details of E.U.T. 4.1

Power supply:	3Vdc via 'AAA' Battery*2
Antenna Gain:	0dBi
Antenna Type:	Integral antenna
Modulation Type:	GFSK
Operation Frequency:	2405MHz to 2475MHz
Number of Channels:	71
Channel Spacing	1MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.				
The EUT has been tested as an independent unit.							

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
20dB Bandwidth	± 3%		
Field Strength of the Fundamental Signal (15.249(a))	5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)		
Restricted Band Around Fundamental Frequency	5.06dB (30MHz-1GHz;3m)5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)		
Radiated Emissions (below 1GHz)	5.06dB(30MHz-1GHz;3m)		
Radiated Emissions (above 1GHz)	5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)		

Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 8215555 Fax: +86 20 82075059 No tests were sub-contracted.

4.5 Test Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

• ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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- 4.6 Deviation from Standards None
- 4.7 Abnormalities from Standard Conditions None



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Equipment List 5

20 dB Bandwidth

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(9kHz- 3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2020-09-17	2021-09-16

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12



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EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08

Radiated Emissions (below 1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
EMI Test Receiver(10Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07		
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	EMC0056	2021-01-03	2022-01-02		
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08		
Trilog Broadband Antenna(25MHz-1GHz)- On Site	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05		
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22		
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18		
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26		
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07		
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19		
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A		

Radiated Emissions (above 1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08		
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24		
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07		
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07		
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19		



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Rev 1.0

SGS-CSTC Standards Technical Services Co., Ltd. **Guangzhou Branch**

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MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05			
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05			



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	N/A

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Hun

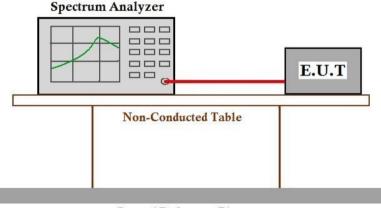
Humidity: 52.7 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	0.608	Pass
Middle	0.586	Pass
Highest	0.564	Pass



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Spectrum							l ∎
Ref Level -10.00 dBm	👄 R	BW 10 kHz					
Att 10 dB	SWT 379.2 µs 🐵 V	BW 30 kHz	Mode Au	to FFT In	put 1 AC		
⊖1Pk View							
			D	l[1]			-4.50 dB
-20 dBm							607.80 kH
-20 dBm			M	1[1]			64.62 dBn
-30 dBm						2.404	71780 GH
So dom							
-40 dBm			M2				
			, Is				
-50 dBm		<u></u>	<u> М. </u>				
50 abiii		[[*V[]	Ա Մ				
-60 dBm			P N				
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-70 dBm		 _ 					
			VV.				
-80 dBm	1000	F					
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199 dBmart mugh 99	A1.00 -			We take			
www.h.h.h.				- W.	Munn	andraw	heatheater
-100 dBm							
CF 2.405 GHz		691 (ots			Spa	n 5.0 MHz
Marker							
Type Ref Trc	X-value	Y-value	Funct	tion	Fund	ction Result	
	2.4047178 GHz	-64.62 dBr					
D1 M1 1	607.8 kHz	-4.50 di					
M2 1	2.405152 GHz	-42.29 dBr	1				
			Mea	suring		-	15:59:43



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Spectrum							E C
Ref Level	-10.00 dB	m 🦷	RBW 10 kHz				······
Att	10 0	iB 🛛 SWT 379.2 µs 🍬	• VBW 30 kHz	Mode Au	to FFT	Input 1 AC	
∋1Pk View							
				D	1[1]		-0.32 d
-20 dBm							586.10 kH
-20 dBm				M	1[1]		~63.99 dBi
-30 dBm							2.43973950 GH
-30 ubin							
-40 dBm				M2			
-40 08/11			Λ	X			
-50 dBm			1.60	a th			
-50 dbiii			P** (N N			
-60 dBm							
-oo abiii	01 -62.77	0 d8m		<u>_</u>			
-70 dBm							
				M			
-80 dBm							
			All ^e	1	1		
-90 dBm			<u>и</u> ч — — — — — — — — — — — — — — — — — — —		Proph.	A ALL ALL A	h 6
Borten	Marchal	Marchan Mary				2. Anna march	Muurman
-100 dBm-							
CF 2.44 GH	z		691	pts			Span 5.0 MHz
Marker							
Type Ref	Trc	X-value	Y-value	Func	tion	Fur	nction Result
M1	1	2.4397395 GHz	-63.99 dBr				
D1 M:		586.1 kHz	-0.32 d				
M2	1	2.4401737 GHz	-42.77 dBr	n			
	1			Mea	suring		12,00,2021



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Spectrur	n								
Ref Level	-10.00 d	Bm	👄 R	BW 10 kHz					
Att	10	dB SWT 379.	2 µs 👳 ۷	'BW 30 kHz	Mode Au	ito FFT I	nput 1 AC		
∋1Pk View									
					D	1[1]			-3.10 d
-20 dBm									564.40 kH
-20 abm					M	1[1]			-63.29 dBi
-30 dBm								2.474	475400 GH
SO GDIN									
-40 dBm					M2				
to abin					Ă.				
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50 abiii				1 10	ԱԱ				
-60 dBm				Mh	1 01				
00 0011	D1 -62.6	80 dBm		+ * *	À		-		
-70 dBm				p ²					
				10	I MA				
-80 dBm									
			Å	M.	4	MM.	A M		
-90 d8m	+		-15 0.0			W Yat	A.M. p	100 03 He	L
hum	solution	onwownhall	NO POW -				Y W Y	WW	myphym
-100 dBm-									
CF 2.475	i GHz			691	pts			i Spa	n 5.0 MHz
larker									
	ef Trc	X-value		Y-value	Func	tion	Fun	ction Resul	t
M1	1	2.474754		-63.29 dB					
	M1 1		4 kHz	-3.10 c					
M2	1	2.4751809	GHZ	-42.68 dB	m				
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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement	47 CFR Part 15, Subpart C 15.249(a)
Test Method:	ANSI C63.10 (2013) Section 6.5&6.6
Measurement Distance:	3m

Limit:

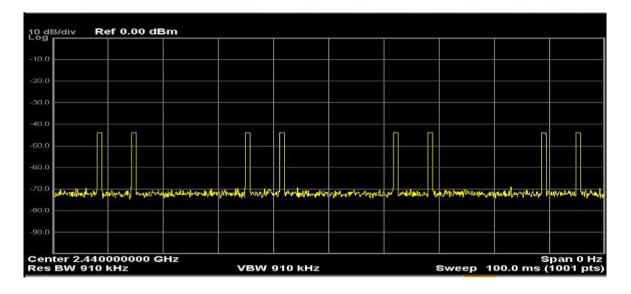
Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =1.52ms
Toot data	T period =26.8ms
Test data:	Duty cycle=0.06%
	PDCF value= -24.93dB





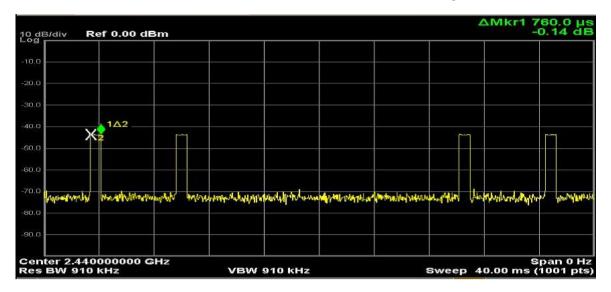
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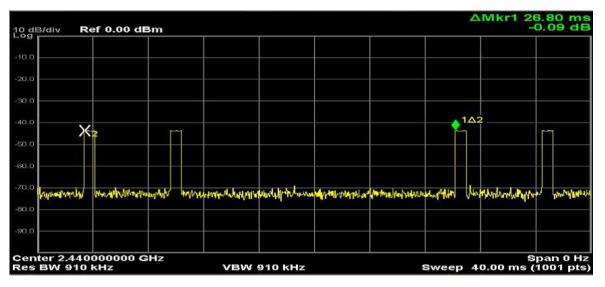
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7.2.1 E.U.T. Operation

Operating Environment:

Temperature:	23.4 °C	Humidity: 53.8 9	% RH Atmospheric Pressure	e: 1010	mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.



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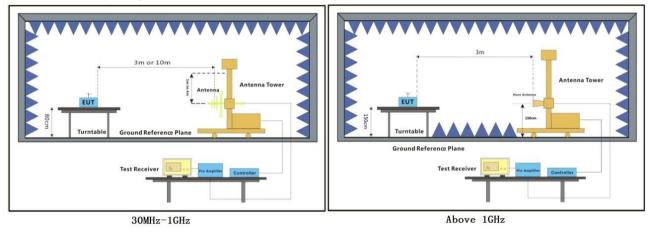
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c.The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g.If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h.Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j.Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: Antenna: 3 denotes the type of antenna for above 1000MHz.

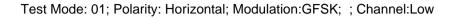


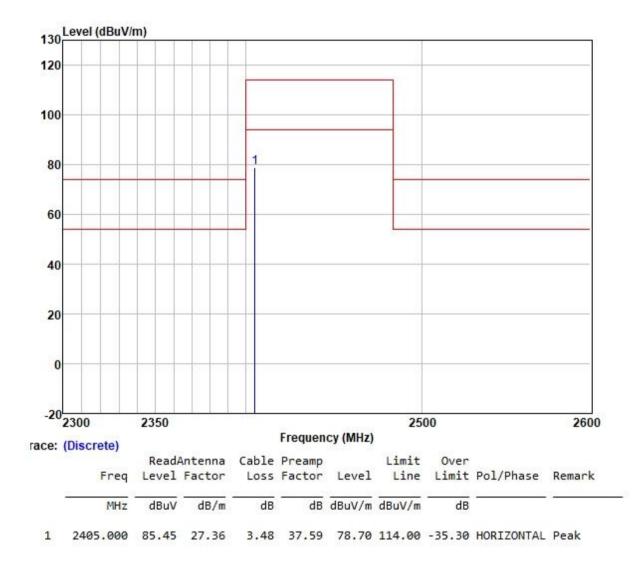
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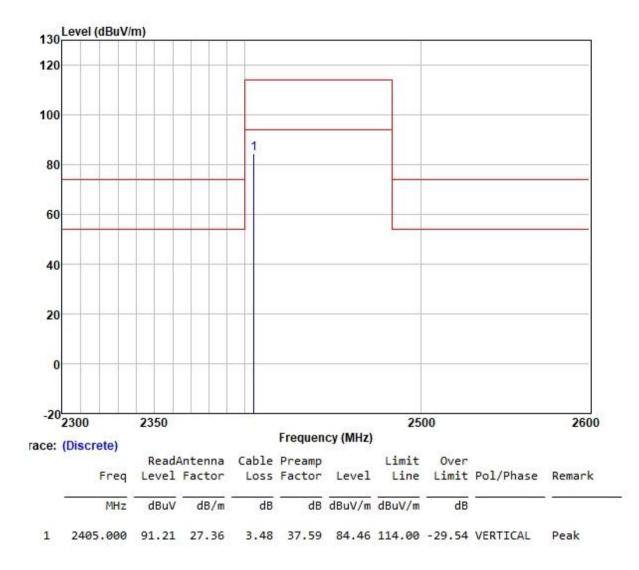
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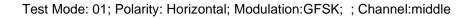


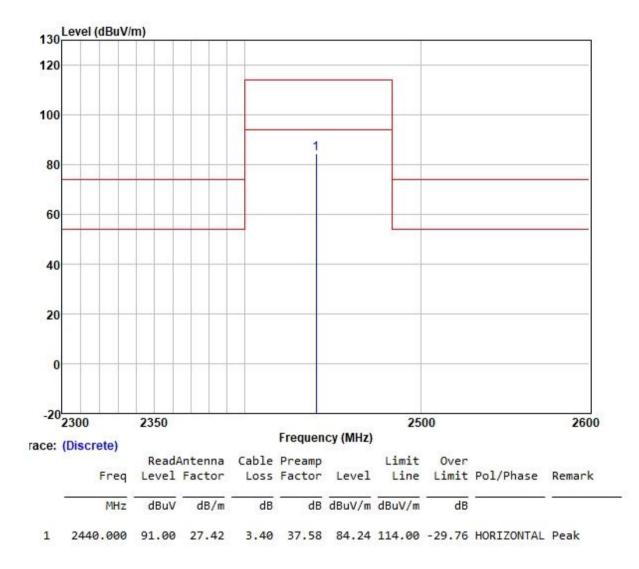
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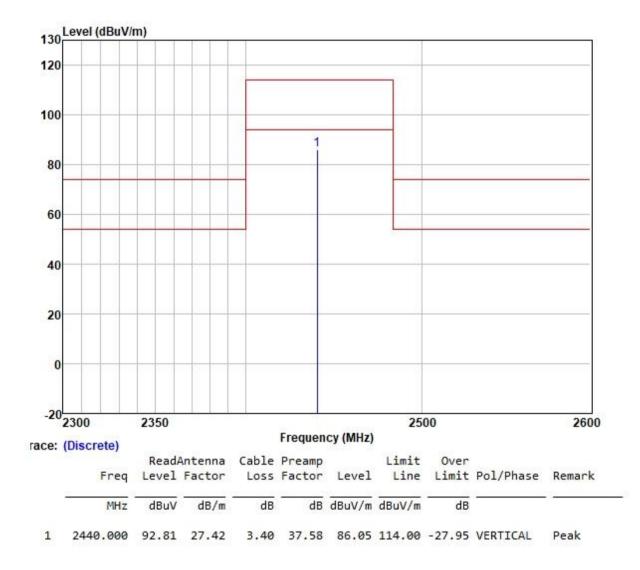
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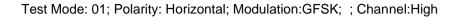


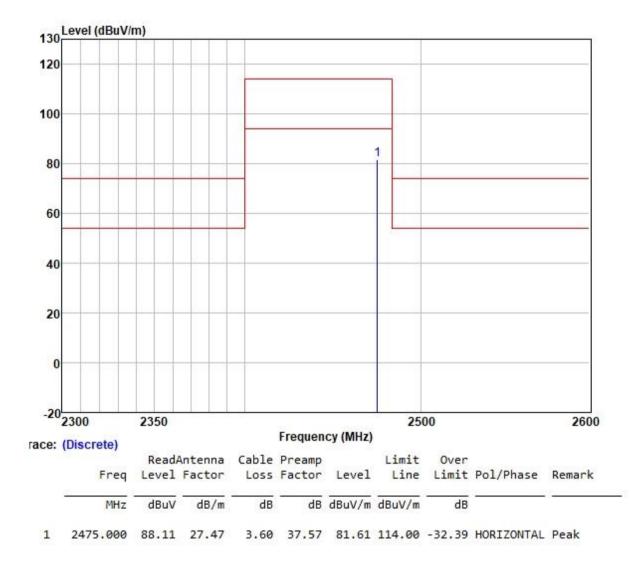
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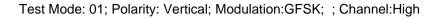


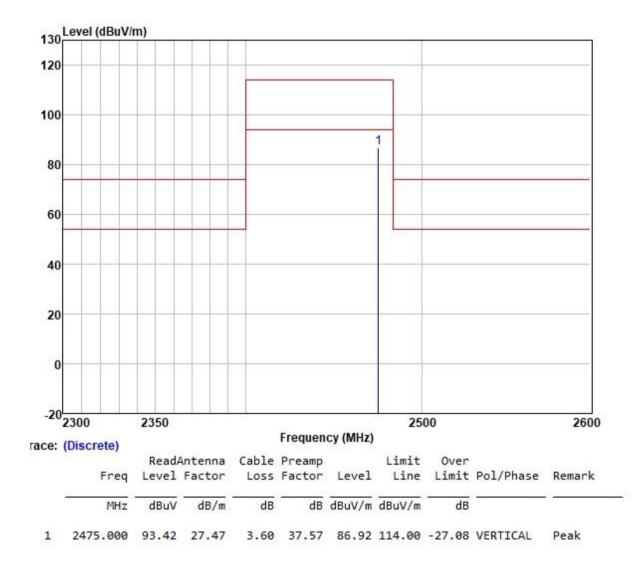
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1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

The peak field strength of any emission shall not exceed the maximum permitted average limits specified 2) above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report



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7.3 Restricted Band Around Fundamental Frequency

47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 **Test Requirement** ANSI C63.10 (2013) Section 6.10.5 Test Method: Measurement Distance: 3m Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

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

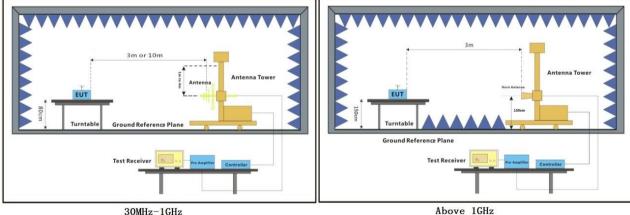
7.3.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.4 °C	Humidity:	53.8 % RH	Atmospheric Pressure:	1010	mbar

7.3.2 Test Mode Description

Pre-scan / Final test		Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

7.3.3 Test Setup Diagram





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7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: Antenna: 3 denotes the type of antenna for above 1000MHz.



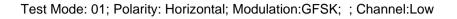
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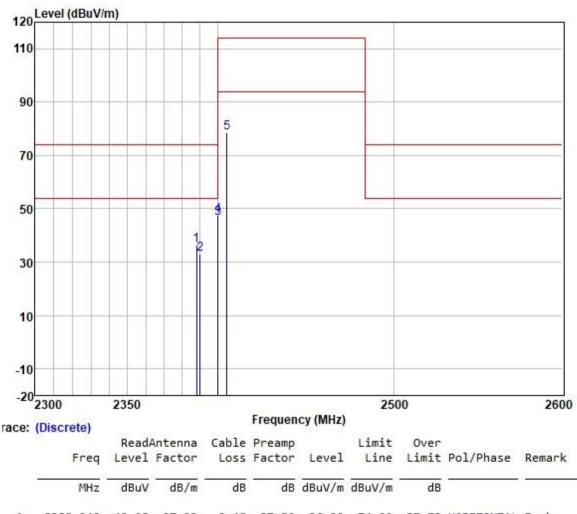
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2388.040 43.08 27.33 3.48 37.59 36.30 74.00 -37.70 HORIZONTAL Peak 1 2390.000 39.61 27.33 3.48 37.59 32.83 74.00 -41.17 HORIZONTAL Peak 2 3 2399.910 53.33 27.35 3.50 37.59 46.59 74.00 -27.41 HORIZONTAL Peak 4 2400.000 54.17 27.35 3.50 37.59 47.43 74.00 -26.57 HORIZONTAL Peak 5 2405.000 85.45 27.36 3.48 37.59 78.70 114.00 -35.30 HORIZONTAL Peak



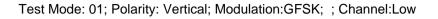
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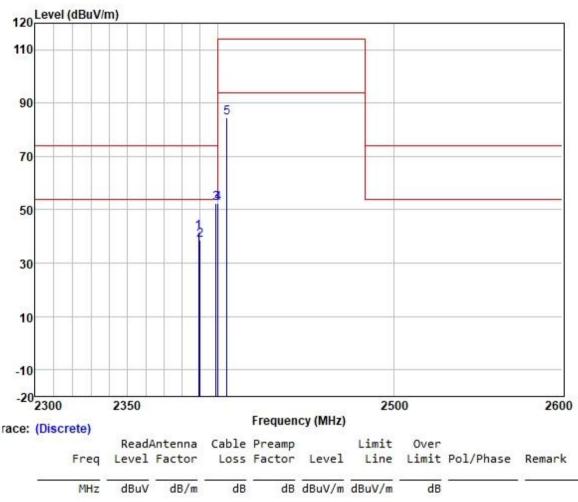
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2388.951	48.29	27.33	3.48	37.59	41.51	74.00	-32.49	VERTICAL	Peak	
2390.000	45.47	27.33	3.48	37.59	38.69	74.00	-35.31	VERTICAL	Peak	
2398.690	59.17	27.35	3.50	37.59	52.43	74.00	-21.57	VERTICAL	Peak	
2400.000	58.98	27.35	3.50	37.59	52.24	74.00	-21.76	VERTICAL	Peak	
2405.000	91.21	27.36	3.48	37.59	84.46	114.00	-29.54	VERTICAL	Peak	
	2390.000 2398.690 2400.000	2390.000 45.47 2398.690 59.17 2400.000 58.98	2390.000 45.47 27.33 2398.690 59.17 27.35 2400.000 58.98 27.35	2388.95148.2927.333.482390.00045.4727.333.482398.69059.1727.353.502400.00058.9827.353.50	2388.95148.2927.333.4837.592390.00045.4727.333.4837.592398.69059.1727.353.5037.592400.00058.9827.353.5037.59	2388.95148.2927.333.4837.5941.512390.00045.4727.333.4837.5938.692398.69059.1727.353.5037.5952.432400.00058.9827.353.5037.5952.24	2388.95148.2927.333.4837.5941.5174.002390.00045.4727.333.4837.5938.6974.002398.69059.1727.353.5037.5952.4374.002400.00058.9827.353.5037.5952.2474.00	2390.00045.4727.333.4837.5938.6974.00-35.312398.69059.1727.353.5037.5952.4374.00-21.572400.00058.9827.353.5037.5952.2474.00-21.76	2388.95148.2927.333.4837.5941.5174.00-32.49VERTICAL2390.00045.4727.333.4837.5938.6974.00-35.31VERTICAL2398.69059.1727.353.5037.5952.4374.00-21.57VERTICAL2400.00058.9827.353.5037.5952.2474.00-21.76VERTICAL	2388.95148.2927.333.4837.5941.5174.00-32.49VERTICALPeak2390.00045.4727.333.4837.5938.6974.00-35.31VERTICALPeak2398.69059.1727.353.5037.5952.4374.00-21.57VERTICALPeak2400.00058.9827.353.5037.5952.2474.00-21.76VERTICALPeak



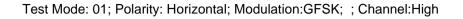
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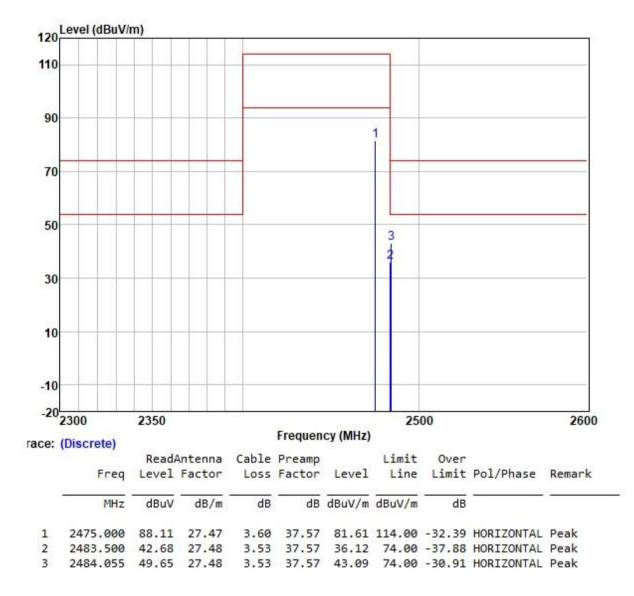
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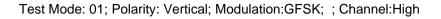


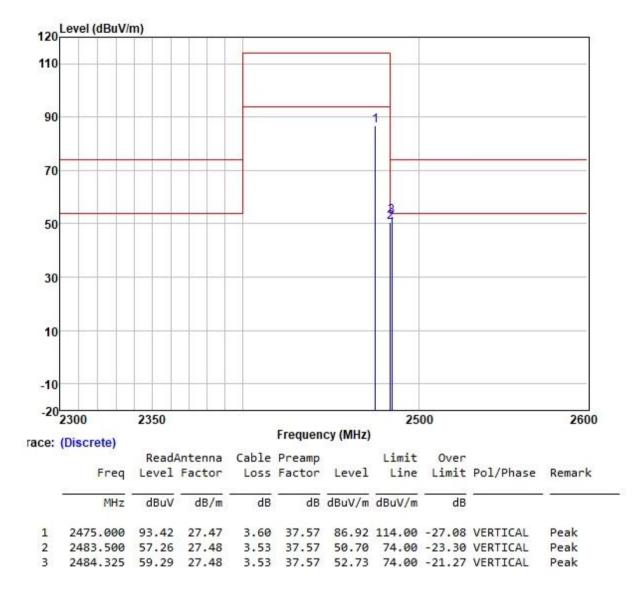
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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report



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7.4 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Measurement Distance:	3m
Limit:	

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

7.4.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.2 °C	Humidity:	53.8 % RH	Atmospheric Pressure:	1010	mbar

7.4.2 Test Mode Description

Pre-scan / Final test		Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.



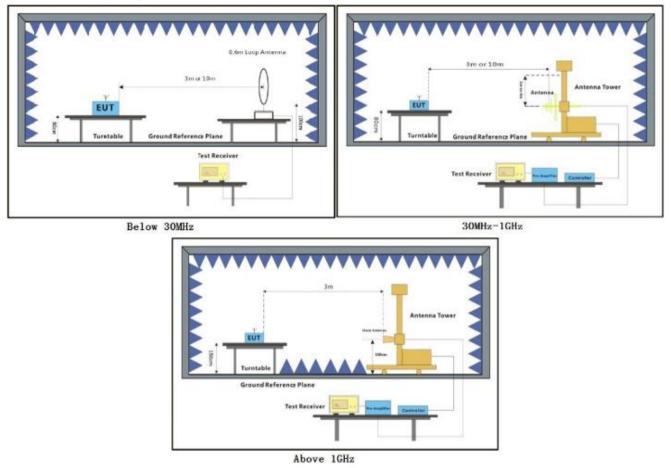
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7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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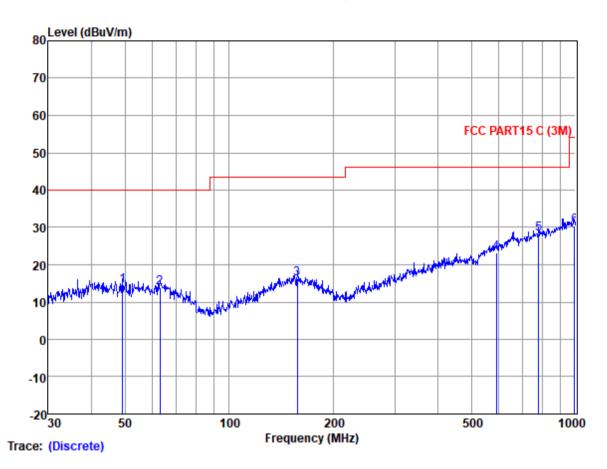
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Below 1GHz

Test Mode: 01; Polarity: Horizontal



Site	: SGS
Condition	: FCC PART15 C (3M)
Job	:
Model	:
Power	:
Test Mode	:

		Read	Anterna	Cable	Preamp	Measured	Limit	0ver	Pol/	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	49.19	26.50	13.94	1.14	27.17	14.41	40.00	-25.59	HORIZONTAL	QP
2	63.09	26.73	13.00	1.31	27.15	13.89	40.00	-26.11	HORIZONTAL	QP
3	157.01	27.13	13.70	2.31	26.81	16.33	43.50	-27.17	HORIZONTAL	QP
4	590.97	26.82	19.50	5.10	28.20	23.22	46.00	-22.78	HORIZONTAL	QP
5	782.35	27.76	22.35	6.11	28.05	28.17	46.00	-17.83	HORIZONTAL	QP
6	993.01	26.46	24.23	7.37	27.67	30.39	54.00	-23.61	HORIZONTAL	QP



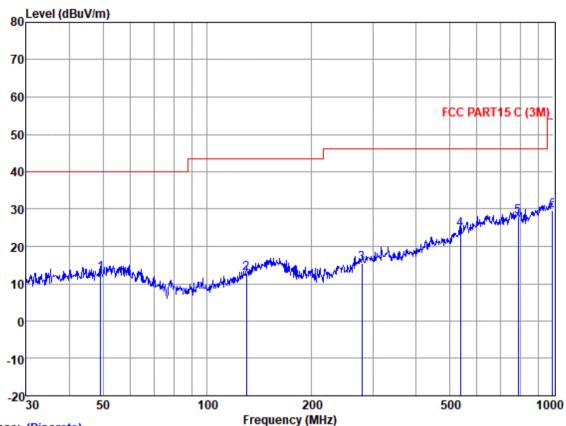
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Test Mode: 01; Polarity: Vertical



Trace: (Discrete)

Site	: SGS
Condition	: FCC PART15 C (3M)
Job	:
Model	:
Power	:
Test Mode	:

		Read	Anterna	Cable	Preamp	Measured	Limit	0ver	Pol/	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	49.19	24.79	13.94	1.14	27.17	12.70	40.00	-27.30	VERTICAL	QP
2	129.47	25.79	12.03	1.96	27.00	12.78	43.50	-30.72	VERTICAL	QP
3	279.04	25.85	13.17	3.09	26.57	15.54	46.00	-30.46	VERTICAL	QP
4	537.59	29.63	18.38	4.70	28.06	24.65	46.00	-21.35	VERTICAL	QP
5	790.62	27.32	22.50	6.14	28.04	27.92	46.00	-18.08	VERTICAL	QP
6	993.01	25.71	24.23	7.37	27.67	29.64	54.00	-24.36	VERTICAL	QP



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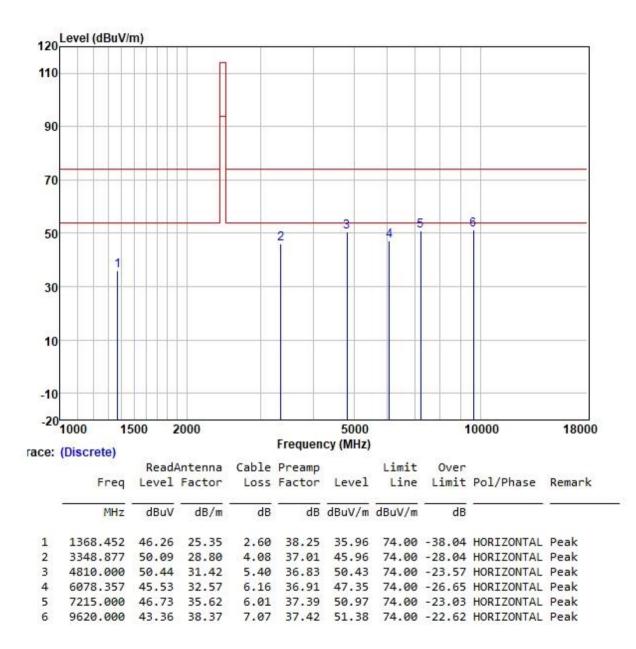
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Above 1GHz

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



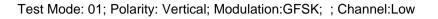


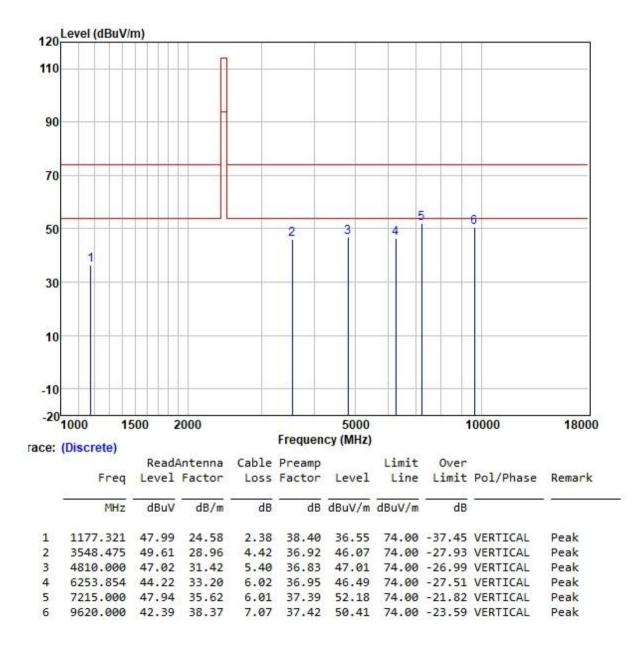
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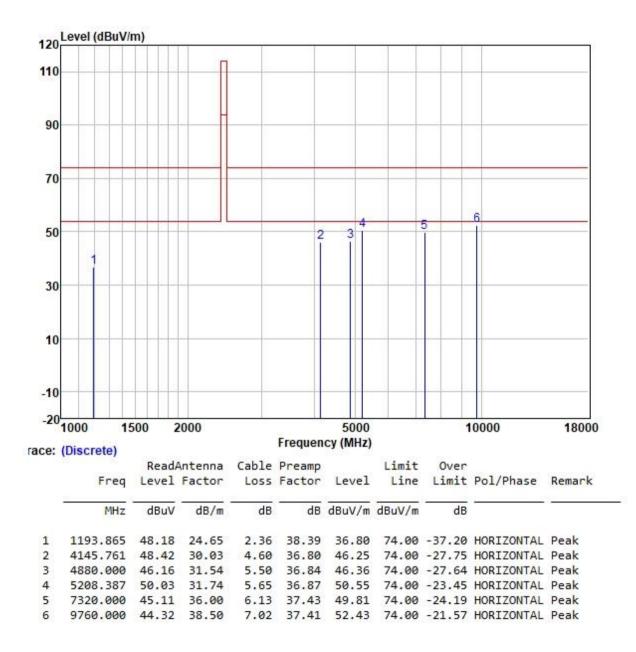
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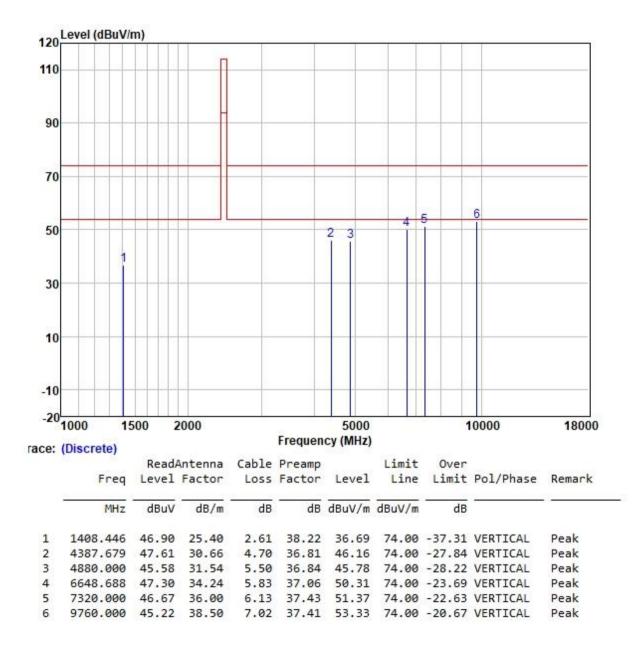
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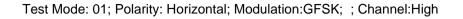


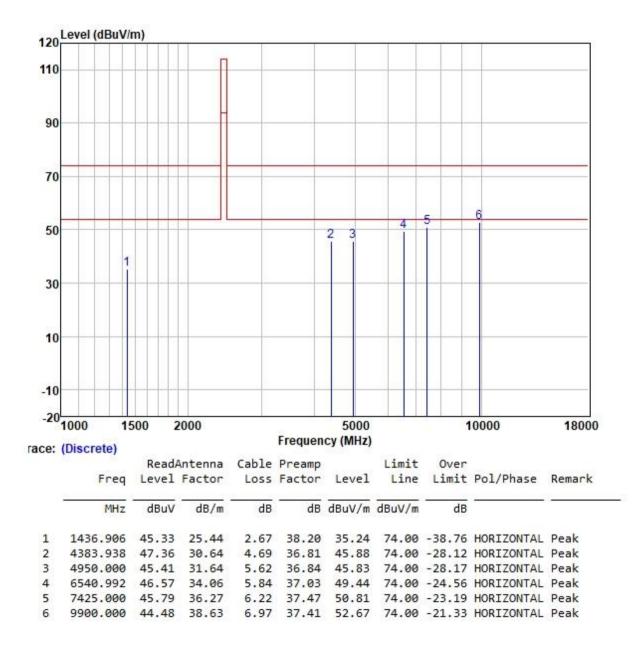
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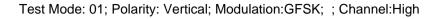


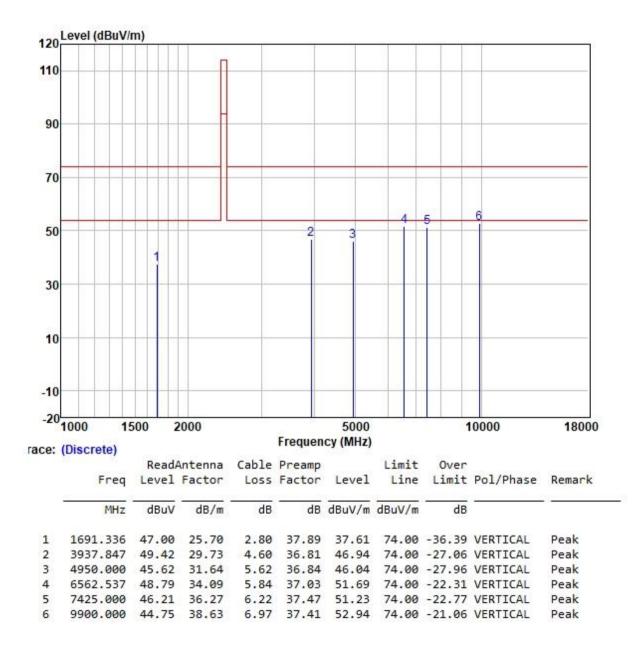
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Test Setup Photo 8

Field Strength of the Fundamental Signal (15.249(a))



Restricted Band Around Fundamental Frequency





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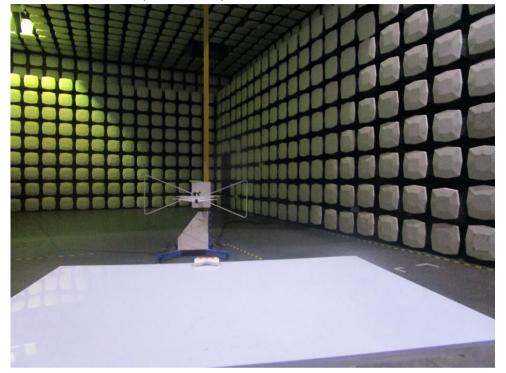
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Radiated Emissions (below 1GHz)



Radiated Emissions (above 1GHz)





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EUT Constructional Details (EUT Photos) 9

Refer to Appendix - external and internal photos for GZCR2108020947AT

- End of the Report -



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