

Report No.: GZCR211002120401 Page: 1 of 47 FCC ID: ZY3-HB-PH12-24

TEST REPORT

Application No.:	GZCR2110021204AT			
Applicant:	HUANG BO TOYS FACTORY			
Address of Applicant:	25 4th Road, Dongguahu Industrial Area, Huaize, Lianx, Shantou, China			
Manufacturer:	HUANG BO TOYS FACTORY			
Address of Manufacturer:	25 4th Road, Dongguahu Industrial Area, Huaize, Lianx, Shantou, China			
Factory:	HUANG BO TOYS FACTORY			
Address of Factory:	25 4th Road, Dongguahu Industrial Area, Huaize, Lianx, Shantou, China			
Equipment Under Test (EUT):			
EUT Name:	R/C TOYS			
Model No.:	PH12A01,PH12A02,PH12A03,PH12A04,PH12A05,			
	PH12A01-1,PH12A02-1,PH12A03-1,PH12A04-1,PH12A05-1,			
	PH12A01-2,PH12A02-2,PH12A03-2,PH12A04-2,PH12A05-2 🔺			
*	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:	2021-09-29			
Date of Test:	2021-09-29 to 2021-10-22			
Date of Issue:	2021-10-25			
Test Result:	Pass*			

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

oke. Jun

Kobe Jian EMC Laboratory Manager



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	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2021-10-25		Original			

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





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Test Summary 2

Radio Spectrum Technical Requirement						
Item	Item Standard Method Requirement Re					
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						
Item	Standard	Method	Requirement	Result		
Radiated Emissions (below 1GHz)		ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		
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))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	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.: PH12A01, PH12A02, PH12A03, PH12A04, PH12A05, PH12A01-1,PH12A02-1,PH12A03-1,PH12A04-1,PH12A05-1, PH12A01-2,PH12A02-2,PH12A03-2,PH12A04-2,PH12A05-2

Only the model PH12A01-1 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 packing, model and color



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General Information 4

Details of E.U.T. 4.1

Power supply:	Transmitter: DC 3.0V (2*1.5V "AAA" Size Batteries)
Antenna Gain:	0dBi
Antenna Type:	Wire
Modulation Type:	GFSK
Operation Frequency:	2410MHz to 2473MHz
Number of Channels:	32

Channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	11	2429	21	2450	31	2469
2	2414	12	2430	22	2452	32	2473
3	2415	13	2431	23	2454		
4	2416	14	2433	24	2456		
5	2417	15	2434	25	2458		
6	2418	16	2439	26	2462		
7	2419	17	2441	27	2464		
8	2421	18	2442	28	2465		
9	2426	19	2444	29	2466		
10	2428	20	2446	30	2467		

4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Dedicted Engineering (holow 401 h)	5.06dB (30MHz-1GHz;3m)
Radiated Emissions (below 1GHz)	4.46dB (30MHz-1GHz;10m)
Radiated Emissions (above 1GHz)	5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)
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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5 Equipment List

Radiated Emissions (below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08	
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	
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	
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25	

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			
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15			
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27			
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29			
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A			



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20 dB Bandwidth									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15				
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14				
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			
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 Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15			

Restricted Band Around Fundamental Frequency								
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			
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15			
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27			
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29			
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A			



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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 Radiated Emissions (below 1GHz)

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
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

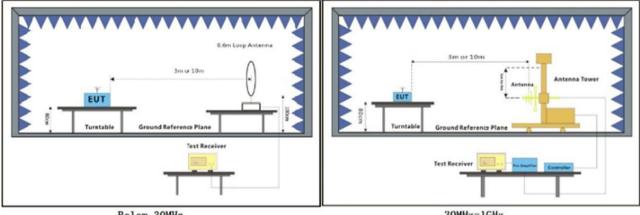
7.1.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	22.8 °C	Humidity:	53.5 % RH	Atmospheric Pressure: 1003 mbar	

7.1.2 Test Mode Description

Pre-scan / Final test		Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

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7.1.4 Measurement Procedure and Data

a. 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. 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.

c. 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.

d. 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.

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

f. 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.

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

h. 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.

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

Remark:

1) 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 1 GHz, the disturbance 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.



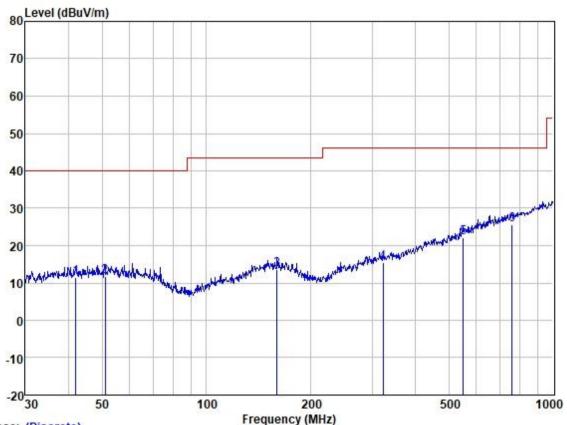
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low

Trace: (Discrete)

Site	:	SGS
Job	:	
Model	:	
Power	:	
Test Mode	:	

	Freq				Contraction of the second s	Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	42.01	23.72	13.70	1.11	27.17	11.36	40.00	-28.64	HORIZONTAL	QP
2	50.94	23.89	13.94	1.15	27.17	11.81	40.00	-28.19	HORIZONTAL	QP
3	159.78	24.51	13.60	2.33	26.80	13.64	43.50	-29.86	HORIZONTAL	QP
4	323.32	24.35	14.38	3.35	26.68	15.40	46.00	-30.60	HORIZONTAL	QP
5	550.95	26.66	18.70	4.83	28.11	22.08	46.00	-23.92	HORIZONTAL	QP
6	760.70	25.53	22.20	6.01	28.07	25.67	46.00	-20.33	HORIZONTAL	QP



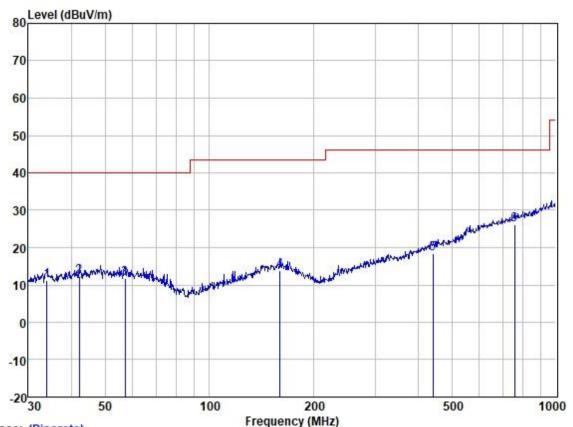
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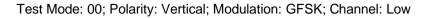
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Trace: (Discrete)

Site	:	SGS
Job	:	
Model	:	
Power	:	
Test Mode	:	

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		3
1	33.92	24.50	12.80	1.06	27.18	11.18	40.00	-28.82	VERTICAL	QP
2	42.15	24.71	13.71	1.11	27.17	12.36	40.00	-27.64	VERTICAL	QP
3	56.99	24.12	13.65	1.21	27.16	11.82	40.00	-28.18	VERTICAL	QP
4	159.78	24.85	13.60	2.33	26.80	13.98	43.50	-29.52	VERTICAL	QP
5	441.74	24.79	17.07	4.16	27.59	18.43	46.00	-27.57	VERTICAL	QP
6	758.04	26.10	22.20	6.01	28.08	26.23	46.00	-19.77	VERTICAL	QP



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7.2 Radiated Emissions (above 1GHz)

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

	Field strength	Limit	Detector	Measurement Distance
Frequency(MHz)	(microvolts/meter)	(dBuV/m)	Detector	(meters)
Above 1000	500	54.0	AV	3

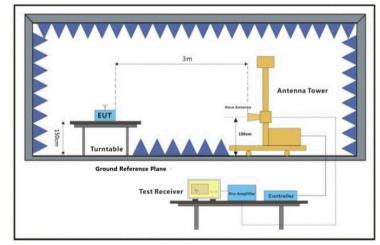
7.2.1 E.U.T. Operation

Operating Environment:								
Temperature:	23.1 °C	Humidity:	54.5 % RH	Atmospheric Pressure:	1003	mbar		

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.2.3 Test Setup Diagram





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7.2.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fullyanechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. 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.

c. 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.

d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

f. 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.

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

h. 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.

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

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) Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.

3) 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.



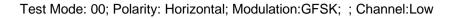
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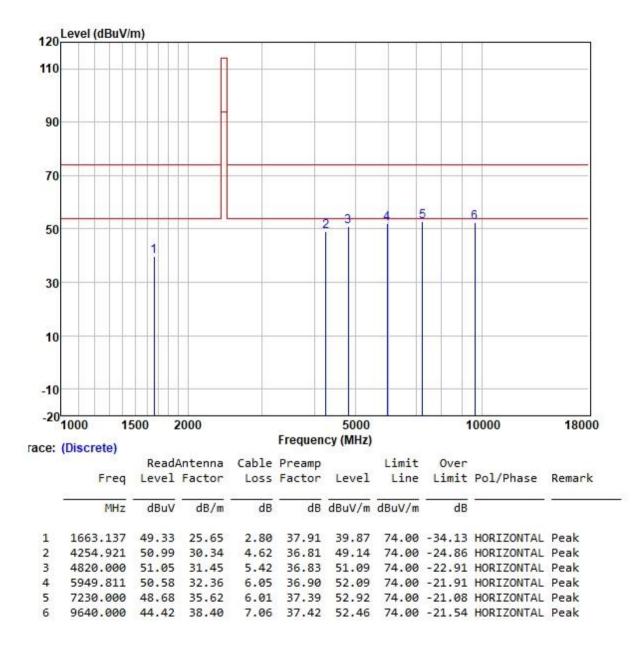
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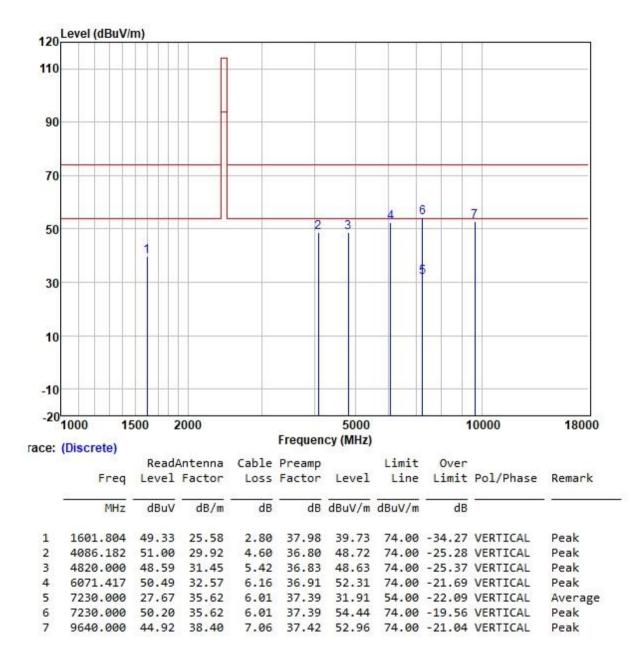
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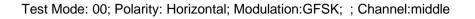
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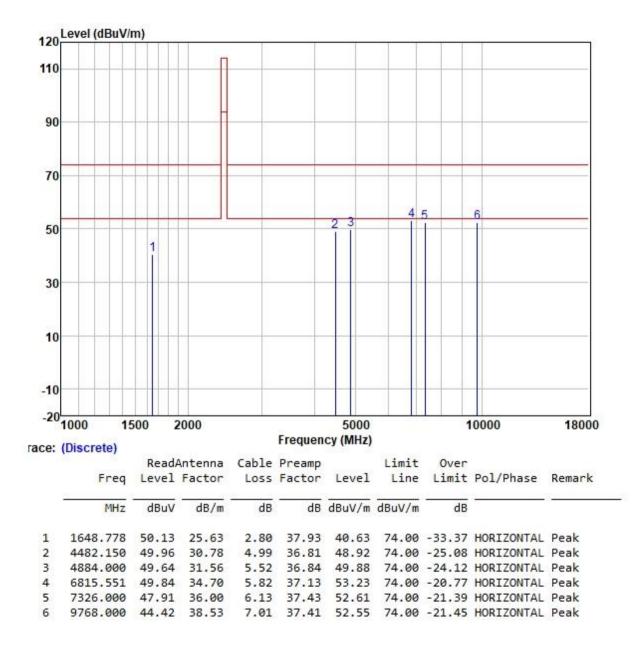
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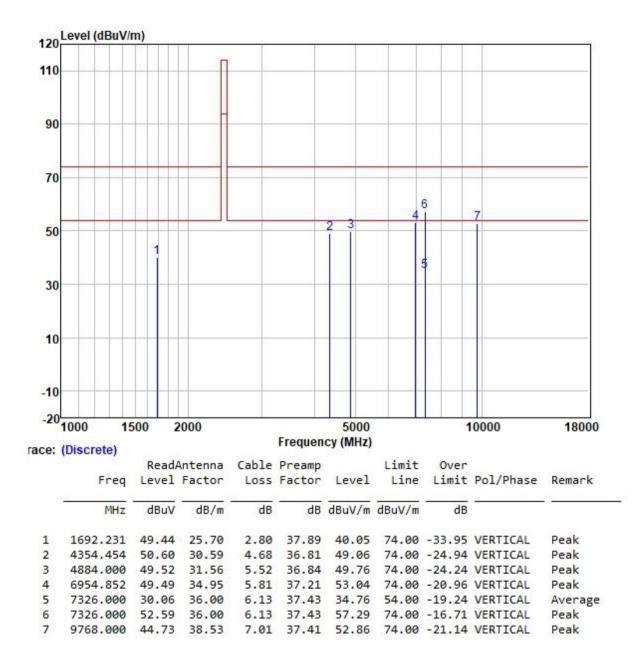
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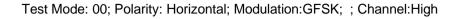
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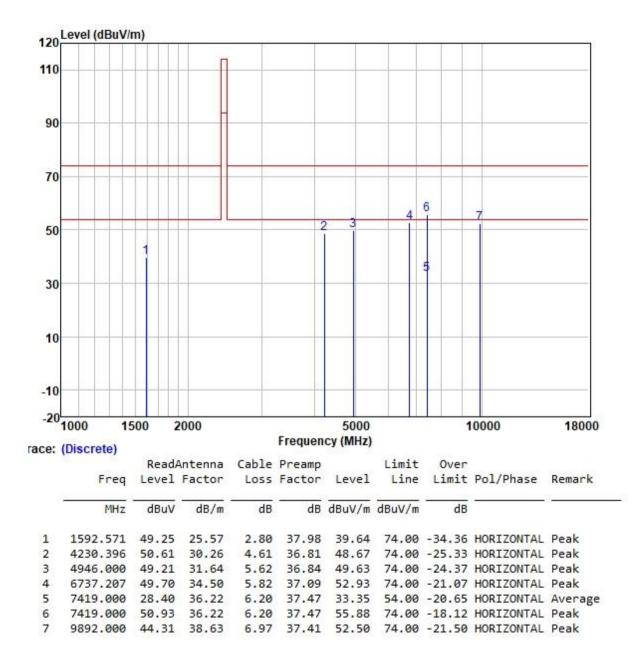
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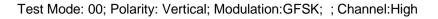
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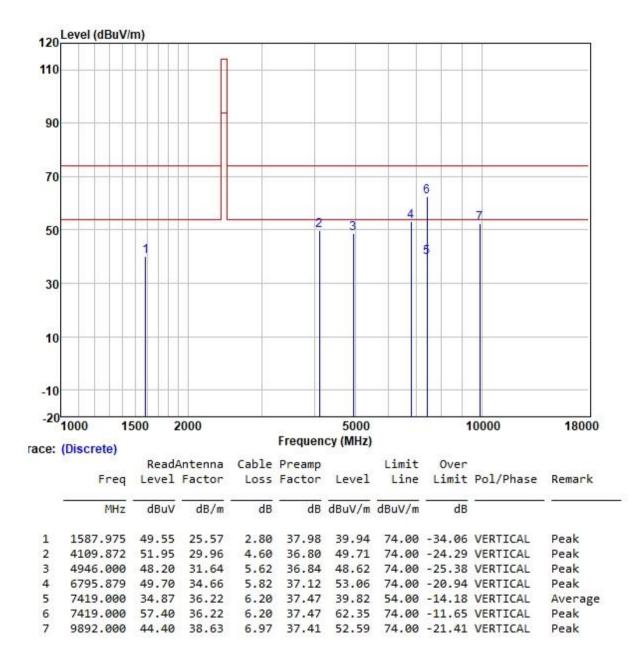
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7.3 20dB Bandwidth

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

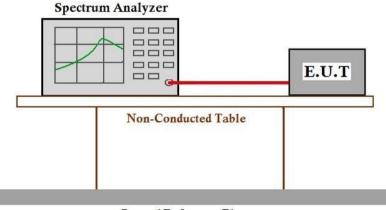
7.3.1 E.U.T. Operation

Operating Environment:							
Temperature:	23.8 °C	Humidity:	53.4 % RH		Atmospheric Pressure:	1003	mbar

7.3.2 Test Mode Description

	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.159	Pass
Middle	1.147	Pass
Highest	1.173	Pass



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Keysight Spectrum Analyzer - Occupied B	W						
XX R RF 50 Ω AC		SENSE:PULSE	ALIGN OFF	05:10:59 PM Radio Std:	Sep 30, 2021	Trace	/Detector
Center Freq 2.41000000	Trig	g: Free Run Avg H	old: 10/10	Radio Stu.	None		
	#IFGain:Low #At	ten: 10 dB		Radio Devi	ce: BTS		
10 dB/div Ref 0.00 dBm	<u>ا</u>						
-10.0							
-20.0						С	lear Write
-30.0	~						
-40.0			•				
	A m		Jan A				Average
-50.0			hopen	fra en			Average
-60.0 MANAMANA					my my more		
-80.0							Max Hold
-90.0							
Center 2.41 GHz				Spa	an 5 MHz		
#Res BW 30 kHz		#VBW 100 kHz		Sweep			Min Hold
			7.01				Minificia
Occupied Bandwid	th	Total Power	-7.35	5 dBm			
1	.1108 MHz						Detector
Transmit Frag Frag		% of ODW Do		00.9/		Auto	Average ► Man
Transmit Freq Error	118.98 kHz	% of OBW Po		0.00 %		<u>Auto</u>	wan
x dB Bandwidth	1.159 MHz	x dB	-20.	00 dB			
MSG			STATUS	5			



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Keysight Spectrum Analyzer - Occupied BW						[- 6 - ×
X RL RF 50 Ω AC Center Freq 2.442000000	i i i i i i i i i i i i i i i i i i i	SENSE:PULSE enter Freq: 2.442000000 ig: Free Run Av .tten: 10 dB	GHz g Hold: 10/10	05:12:06 PM Radio Std: Radio Dev		Trace	e/Detector
10 dB/div Ref 0.00 dBm							
-10.0		www				c	lear Write:
-40.0 -50.0 -60.0 -70.0	~~~~			n	MinMpm		Average
-70.0							Max Hold
Center 2.442 GHz #Res BW 30 kHz		#VBW 100 kHz			an 5 MHz 2.733 ms		Min Hold
Occupied Bandwidth			ər -ə.ə.s	aBm			
1.1	173 MHz						Detector Average ►
Transmit Freq Error	109.32 kHz	% of OBW	Power 99	0.00 %		<u>Auto</u>	Man
x dB Bandwidth	1.147 MHz	x dB	-20.	00 dB			
MSG			STATUS	6			



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Keysight Spectrum Analyzer - Occupied	BW				
🗱 R RF 50 Ω AC Ref Value 0.00 dBm		SENSE:PULSE	ALIGN OFF	05:10:12 PM Sep 30, 2021 Radio Std: None	Amptd/Y Scale
	Tri	ig: Free Run Av	g Hold: 10/10		
	#IFGain:Low #A	tten: 10 dB		Radio Device: BTS	Ref Value
					0.00 dBm
10 dB/div Ref 0.00 dBr Log	n		· · · · ·		
-10.0					Attenuation
-20.0					[10 dB]
-30.0	/~				
-40.0	$\sim \sim$	\	m		
-50.0	/\		m la		Scale/Div
-60.0			· · · · · · · · · · · · · · · · · · ·	wwwwwwww	10.0 dB
-60.0 -70.0 MMMmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm					
-80.0					
-90.0					
Center 2.473 GHz #Res BW 30 kHz		#VBW 100 kHz		Span 5 MHz	
#Res DW JUKHZ				Sweep 2.733 ms	Presel Center
Occupied Bandwid	dth	Total Powe	er -6.48	dBm	
1	.1635 MHz				
	. 1000 Militz				Presel Adjust
Transmit Freq Error	122.26 kHz	% of OBW	Power 99	.00 %	0 Hz
x dB Bandwidth	1.173 MHz	x dB	-20.	00 dB	
					More
					1 of 2
MSG			STATUS	3	



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

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

Limit:

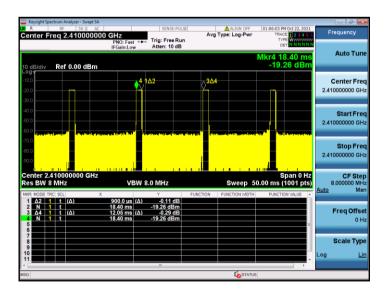
Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

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
Test data:	Ton time =0.9ms
	T period =12.05ms
	Duty cycle=7.47%
	PDCF value= -22.53dB





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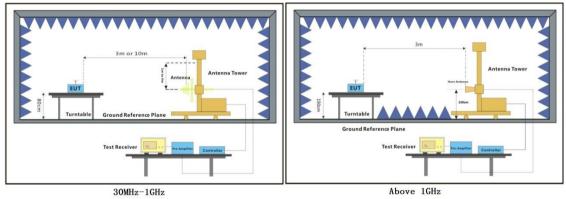
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7.4.1 E.U.T. Operation	ı					
Operating Enviro	nment:					
Temperature:	23.1 °C	Humidity:	54.5 % RH	Atmospheric Pressure:	1003	mbar

7.4.2 Test Mode Description

Pre-scan / Final test		Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

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, guasi-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.

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

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



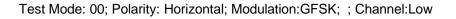
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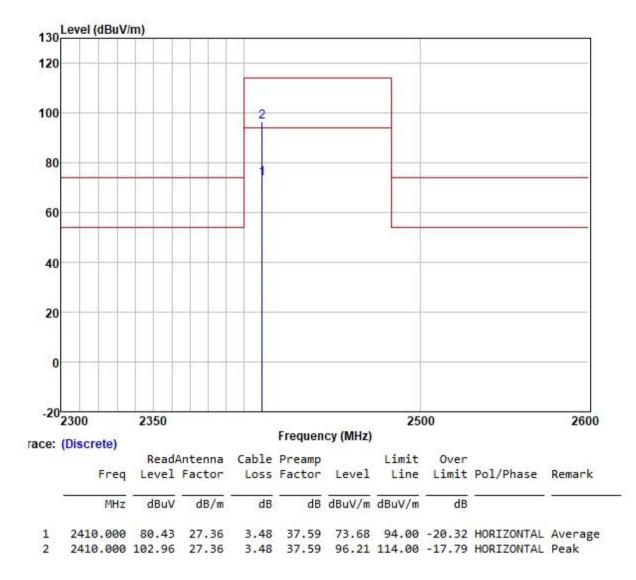
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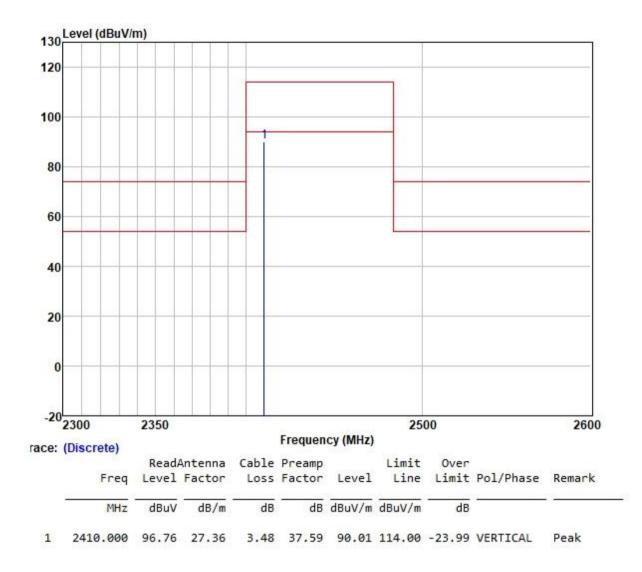
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low





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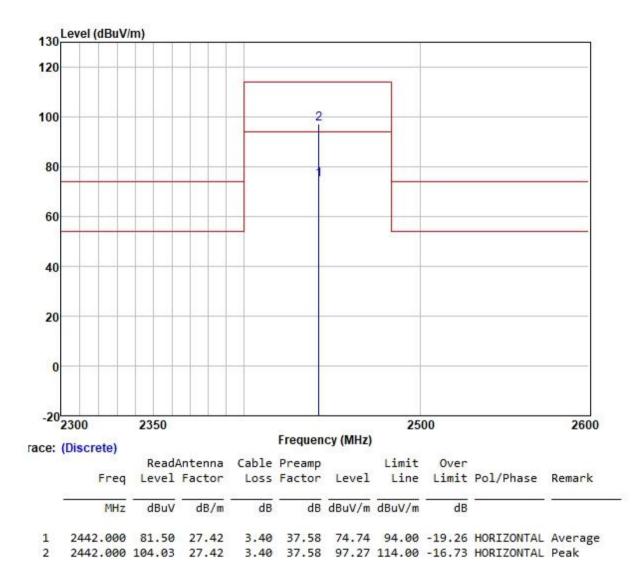
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle





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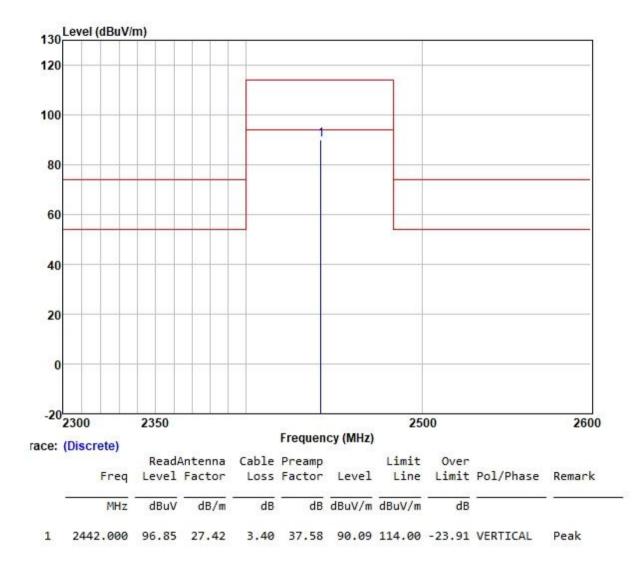
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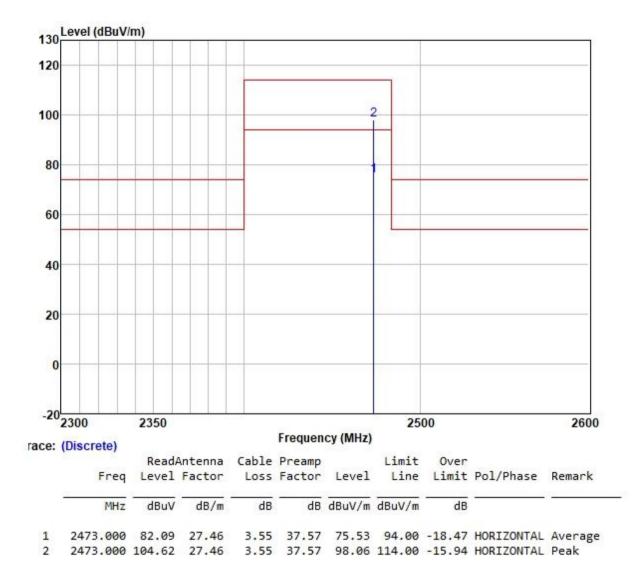
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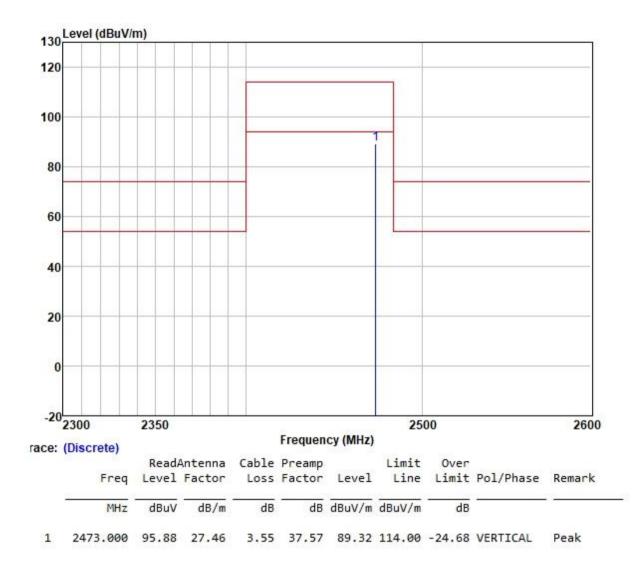
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7.5 Restricted Band Around Fundamental Frequency

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

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0 Quasi-peak Val	
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.

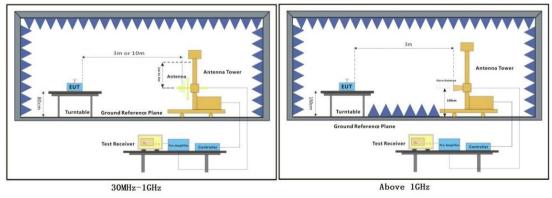
7.5.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.1 °C	Humidity:	54.5 % RH	Atmospheric Pressure:	1003	mbar

7.5.2 Test Mode Description

Pre-scan / Final test		Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3 Test Setup Diagram





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7.5.4 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, guasi-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.

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

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



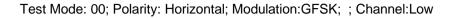
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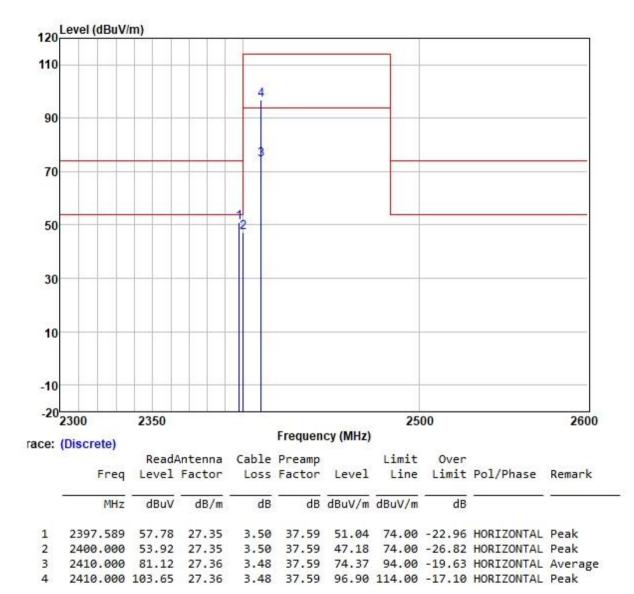
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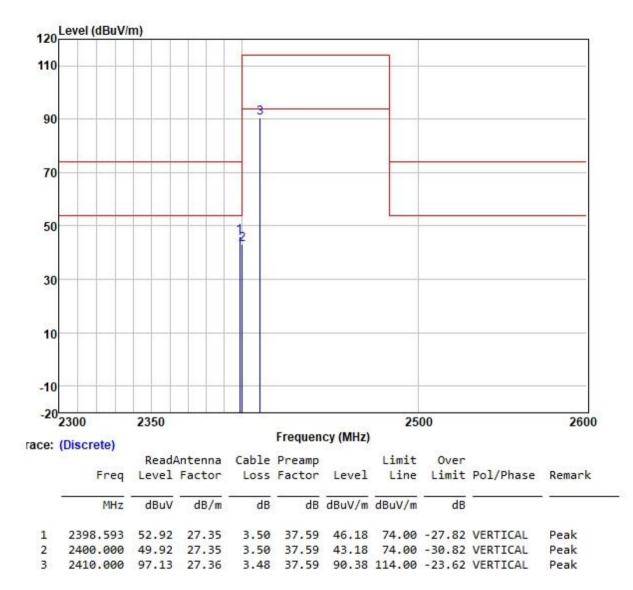
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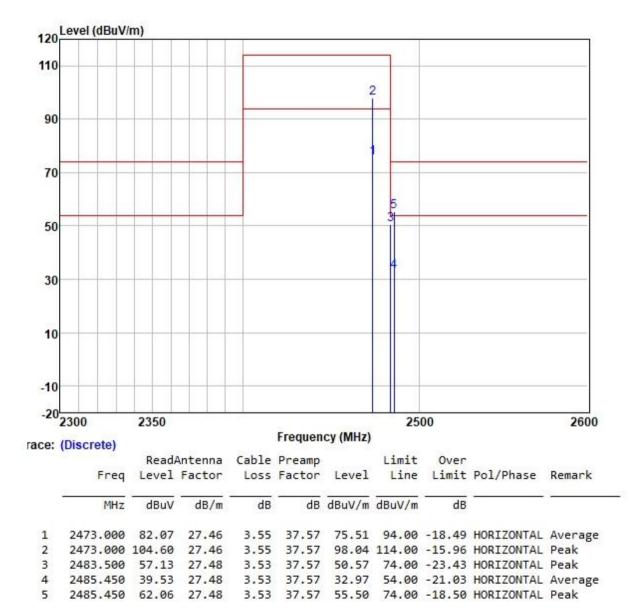
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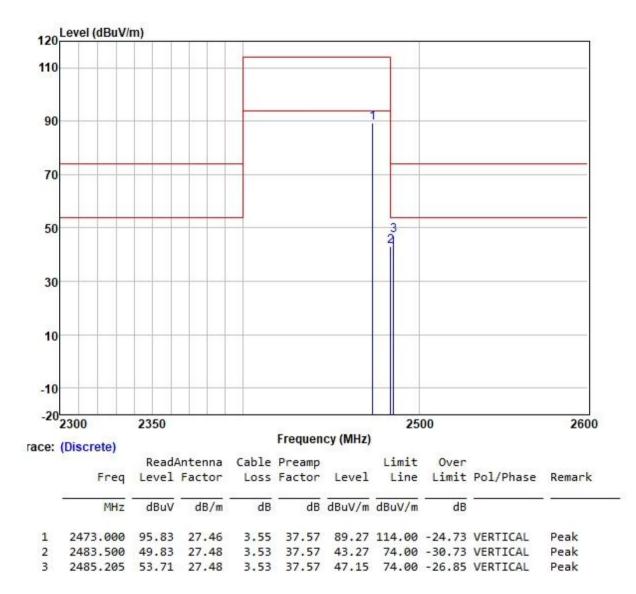
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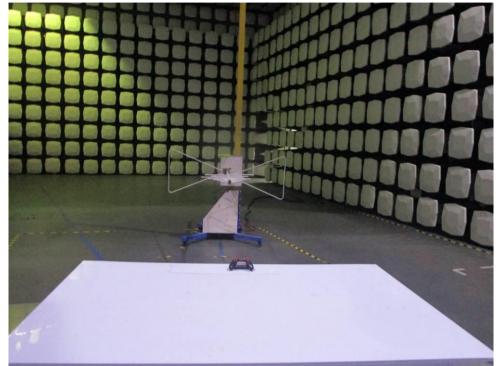
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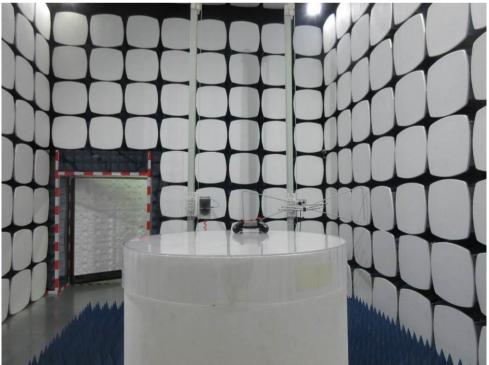
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8 Test Setup Photo

Radiated Emissions (below 1GHz)



Radiated Emissions (above 1GHz)





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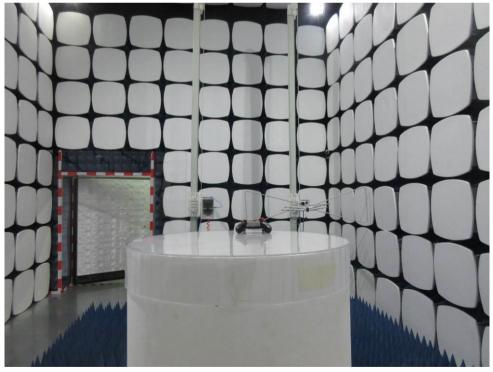
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Restricted Band Around Fundamental Frequency





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EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for GZCR2110021204AT

- End of the Report -



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