

Report No.: FYFR220300000602

Page: 1 of 45

TEST REPORT

Application No.: FYFR2203000006ET(SGS SZ No.: T52210250016EM)

Applicant: HYPER TOY COMPANY

Address of Applicant: 177 Malaga Park Drive Malaga NJ 08328 United States Of America
Manufacturer: GUANGDONG SYMA MODEL AIRCRAFT INDUSRTRIAL CO., LTD,
Address of Manufacturer: The crossing of No.2 West Xingye Road and north Xingye Road, Laimei

Industrial Park Chenghai District. SHANTOU GD 515800 CN

Factory: GUANGDONG SYMA MODEL AIRCRAFT INDUSRTRIAL CO., LTD, **Address of Factory:** The crossing of No.2 West Xingye Road and north Xingye Road, Laimei

Industrial Park Chenghai District. SHANTOU GD 515800 CN

Supplier: Hyper Bicycles, Inc

Buyer: Target

Equipment Under Test (EUT):

EUT Name: HYPER RC STUNT TRUCK DOZER

Item No.:HYP-HRC-2001FCC ID:2AMOVHRC2001Brand Name:Hyper Toy Co

P.O. No.: 0087-5706046-0581

DPCI: 087056100

Labelled Age Grading:6+Country of Origin:ChinaCountry of Destination:USA

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2022-03-04

Date of Test: 2022-03-09 to 2022-04-02

Date of Issue: 2022-04-08

Test Result: Pass*

Kidd Yang EMC Laboratory Manager



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



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2022-04-08		Original		

Authorized for issue by:			
	Tree Zhan		
	Tree Zhan /Project Engineer		
	WinkeyWarg	_	
	Winkey Wang/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement						
Item Standard Method		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						
Item	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))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	47 CFR Part 15, 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 Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		



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4 General Information

4.1 Details of E.U.T.

Power supply:	3V DC(1.5V x 2 "AA" Size Batteries) for TX
Operating Frequency:	2.4GHz(2408.3MHz-2468.3MHz)
Modulation Type:	GFSK
Channel number:	60
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	2dBi

Channel List

Chaine List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2408.3	21	2429	41	2449	
2	2410	22	2430	42	2450	
3	2411	23	2431	43	2451	
4	2412	24	2432	44	2452	
5	2413	25	2433	45	2453	
6	2414	26	2434	46	2454	
7	2415	27	2435	47	2455	
8	2416	28	2436	48	2456	
9	2417	29	2437	49	2457	
10	2418	30	2438.3	50	2458	
11	2419	31	2439	51	2459	
12	2420	32	2440	52	2460	
13	2421	33	2441	53	2461	
14	2422	34	2442	54	2462	
15	2423	35	2443	55	2463	
16	2424	36	2444	56	2464	
17	2425	37	2445	57	2465	
18	2426	38	2446	58	2466	
19	2427	39	2447	59	2467	
20	2428	40	2448	60	2468.3	



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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	± 0.3%
Field Strength of the Fundamental Signal (15.249(a))	± 3.1dB (Below 1GHz),± 4.4dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 3.1dB (Below 1GHz),± 4.4dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Emissions Above 1GHz	± 4.4dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI 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:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz- 40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz- 6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12
Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2021/4/8	2022/4/7

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25



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Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

Restricted Band Around	Restricted Band Around Fundamental Frequency				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12



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Radiated Emissions Bel	ow 1GHz				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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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

6.1.2 Conclusion

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.

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

7.1.1 E.U.T. Operation

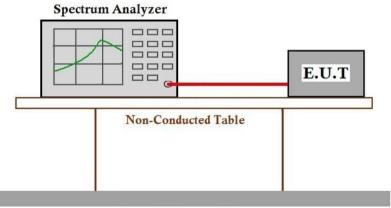
Operating Environment:

Temperature: 23.6 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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	1.881	Pass
Middle	1.693	Pass
Highest	1.772	Pass



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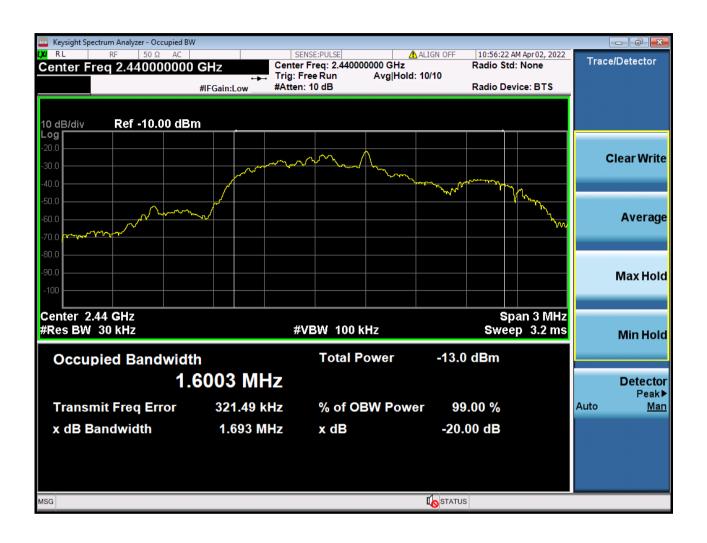
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7.2 Field Strength of the Fundamental Signal (15.249(a))

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.3734ms
	T period =2.392ms
	Duty cycle=0.16%
	PDCF value= -16.13dB



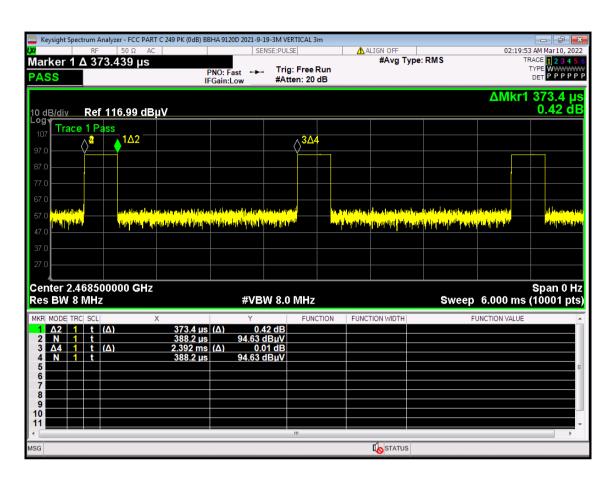
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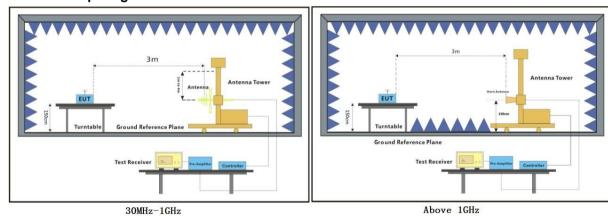


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7.2.3 Test Setup Diagram





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

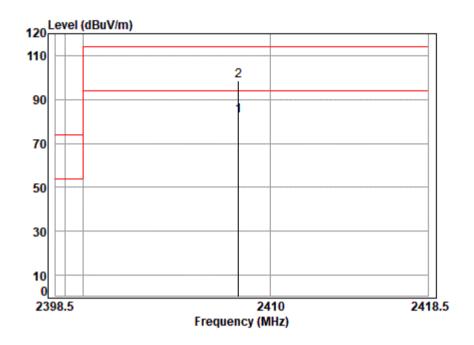




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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2408.3 Field Strengh

Freq					Limit Level Line			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 2408.300								_



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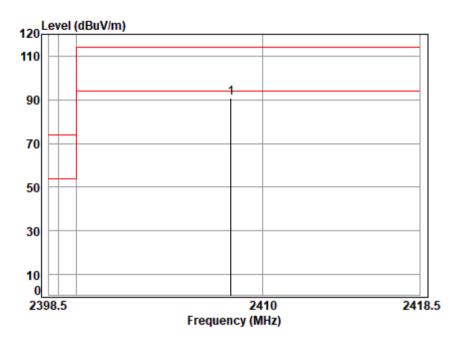
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 00006ET

Mode : 2408.3 Field Strengh

Cable Ant Preamp Read Limit Over
Loss Factor Factor Level Level Line Limit

Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 p 2408.300 4.50 27.86 48.21 106.58 90.73 114.00 -23.27 peak



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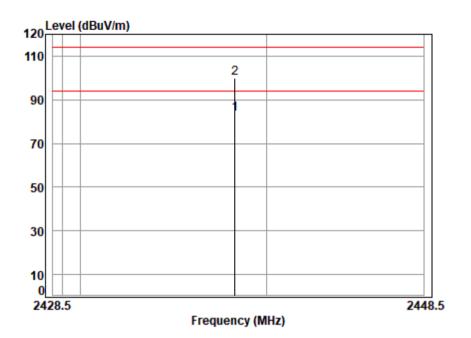
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2438.3 Field Strengh

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 1 p 2438.300 4.53 28.18 48.20 99.08 83.59 94.00 -10.41 Average 2 p 2438.300 4.53 28.18 48.20 115.21 99.72 114.00 -14.28 peak



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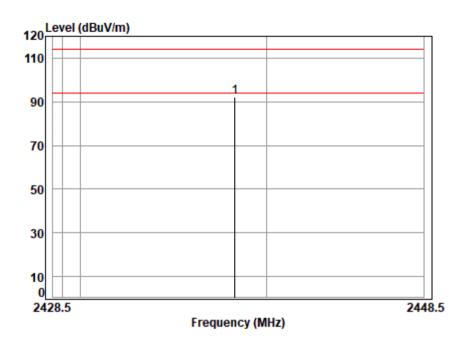
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 00006ET

Mode : 2438.3 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 p 2438.300 4.53 28.18 48.20 107.45 91.96 114.00 -22.04 peak



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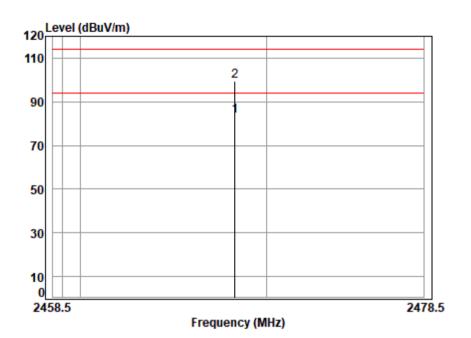
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

2 p 2468.300

Mode : 2468.3 Field Strengh

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 1 p 2468.300 4.57 28.04 48.20 98.96 83.37 94.00 -10.63 Average

4.57 28.04 48.20 115.09 99.50 114.00 -14.50 peak



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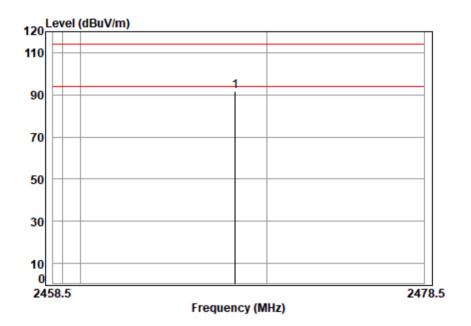
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00006ET

Mode : 2468.3 Field Strengh

Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

Read

Limit

0ver

1 p 2468.300 4.57 28.04 48.20 107.27 91.68 114.00 -22.32 peak

Ant Preamp

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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7.3 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

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

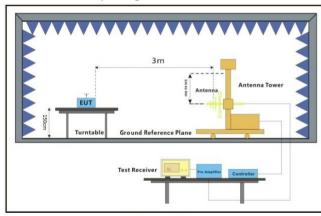
Operating Environment:

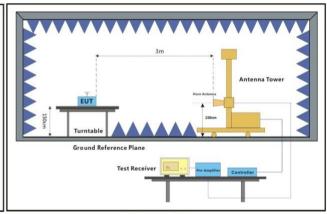
Temperature: 22.3 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Tiol2 Tool Mode Decomption								
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.						

7.3.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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

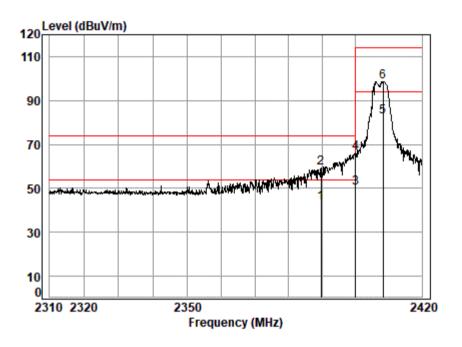




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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2408.3 Band edge

				0 –					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.683	4.48	27.72	48.21	59.36	43.35	54.00	-10.65	Average
2	2389.683	4.48	27.72	48.21	75.49	59.48	74.00	-14.52	Peak
3 p	2400.000	4.49	27.80	48.21	65.97	50.05	54.00	-3.95	Average
4 p	2400.000	4.49	27.80	48.21	82.10	66.18	74.00	-7.82	peak
5	2408.300	4.50	27.86	48.21	98.31	82.46	94.00	-11.54	Average
6	2408.300	4.50	27.86	48.21	114.44	98.59	114.00	-15.41	neak



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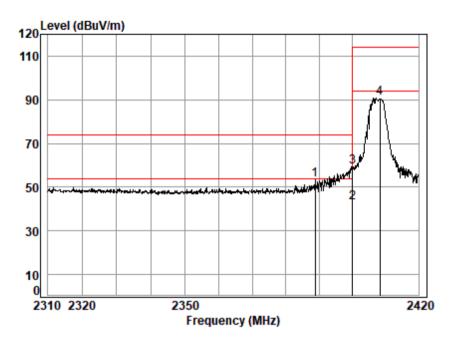
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 00006ET

Mode : 2408.3 Band edge

				5-					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.793	4.48	27.71	48.21	69.21	53.19	74.00	-20.81	Peak
2 p	2400.000	4.49	27.80	48.21	58.90	42.98	54.00	-11.02	Average
3 p	2400.000	4.49	27.80	48.21	75.03	59.11	74.00	-14.89	peak
4	2408.300	4.50	27.86	48.21	106.58	90.73	114.00	-23.27	peak



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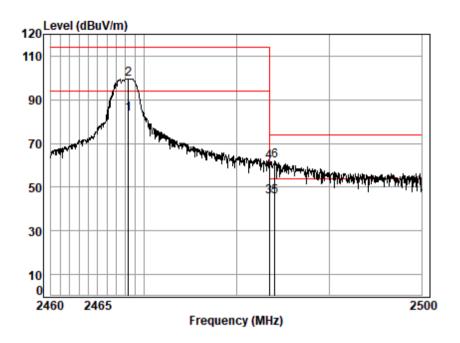
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2468.3 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2468.300	4.57	28.04	48.20	98.96	83.37	94.00	-10.63	Average
2	2468.300	4.57	28.04	48.20	115.09	99.50	114.00	-14.50	peak
3	2483.500	4.58	27.83	48.19	61.22	45.44	54.00	-8.56	Average
4	2483.500	4.58	27.83	48.19	77.35	61.57	74.00	-12.43	peak
5 p	2484.083	4.58	27.82	48.19	61.63	45.84	54.00	-8.16	Average
6 p	2484.083	4.58	27.82	48.19	77.76	61.97	74.00	-12.03	Peak



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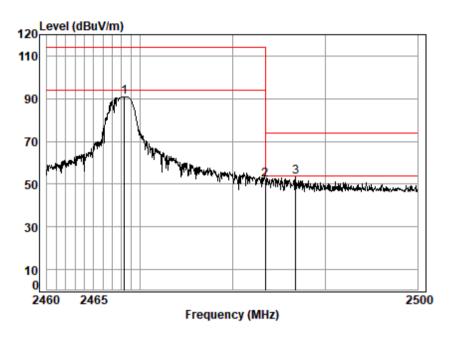
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00006ET

Mode : 2468.3 Band edge

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2468.300	4.57	28.04	48.20	106.27	90.68	114.00	-23.32	peak
2	2483.500	4.58	27.83	48.19	67.72	51.94	74.00	-22.06	Peak
3 p	2486.769	4.59	27.78	48.19	69.32	53.50	74.00	-20.50	Peak



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7.4 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

Limit:

Frequency(MHz)	Field strength(microvolts/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
960-1000	500	3

7.4.1 E.U.T. Operation

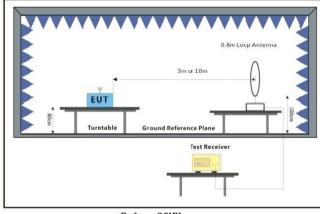
Operating Environment:

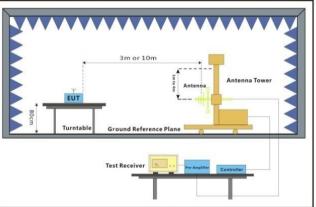
Temperature: 22.5 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

7.4.2 Test mode bescription								
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.						

7.4.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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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 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 quasi-peak 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.
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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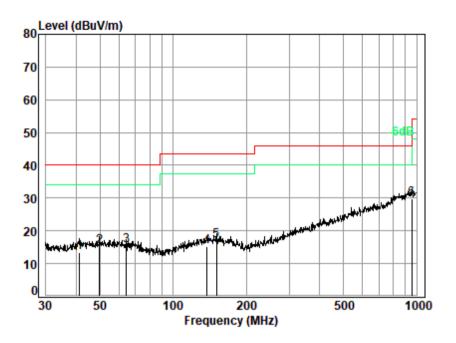
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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 02

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	41.277	0.20	17.01	25.88	22.20	13.53	40.00	-26.47	QP
2	49.707	0.22	17.36	25.86	23.43	15.15	40.00	-24.85	QP
3	64.208	0.25	16.61	25.84	24.43	15.45	40.00	-24.55	QP
4	137.903	0.91	17.27	25.60	22.77	15.35	43.50	-28.15	QP
5	150.538	0.84	17.42	25.54	24.33	17.05	43.50	-26.45	QP
6 p	955.438	2.13	29.30	26.28	24.66	29.81	46.00	-16.19	QP



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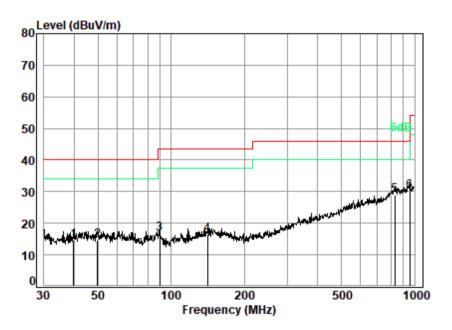
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Test Mode: 02; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00006ET

Mode : 02

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	39.715	0.20	16.66	25.88	23.67	14.65	40.00	-25.35	OP
2	49.881								_
3	89.905								-
4	141.330	0.90	17.44	25.58	23.77	16.53	43.50	-26.97	QP
5	830.400	2.85	27.74	26.53	24.69	28.75	46.00	-17.25	QP
6 p	955.438	2.13	29.30	26.28	25.00	30.15	46.00	-15.85	OP



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7.5 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:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.5.1 E.U.T. Operation

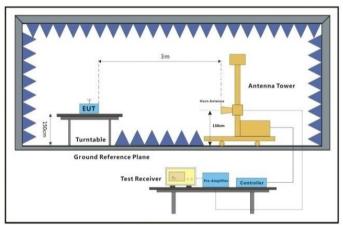
Operating Environment:

Temperature: 22.3 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3 Test Setup Diagram



Above 1GHz



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7.5.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 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 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, 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. As shown in this section, 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.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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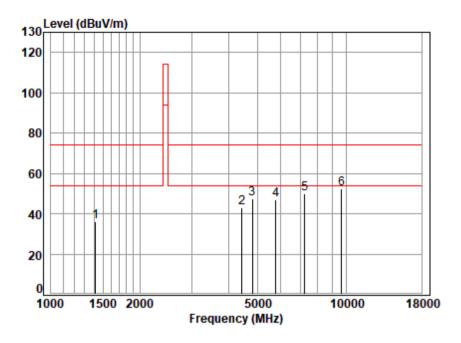
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2408.3 TX RSE

Ouc	. 2-1		X 11.5E							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1414.597	2.94	26.40	48.15	54.71	35.90	74.00	-38.10	peak	
2	4443.453	6.96	30.06	47.97	54.18	43.23	74.00	-30.77	peak	
3	4816.600	7.64	30.80	47.72	56.94	47.66	74.00	-26.34	peak	
4	5780.300	7.43	31.50	47.44	55.50	46.99	74.00	-27.01	peak	
5	7224.900	7.76	36.10	47.25	53.46	50.07	74.00	-23.93	peak	
	9633 200								•	



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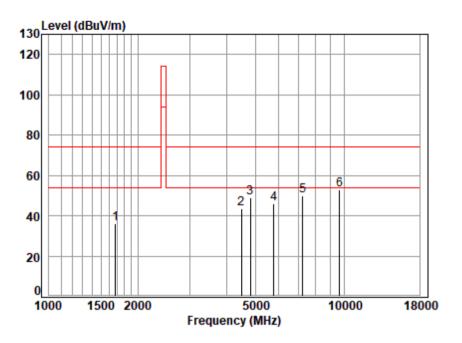
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00006ET

Mode : 2408.3 TX RSE

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1677.621 3.44 25.27 48.22 55.51 36.00 74.00 -38.00 peak 1 2 4495.125 6.97 30.28 47.93 54.35 43.67 74.00 -30.33 peak 3 4816.600 7.64 30.80 47.72 58.42 49.14 74.00 -24.86 peak 4 5780.300 7.43 31.50 47.44 54.38 45.87 74.00 -28.13 peak 5 7224.900 7.76 36.10 47.25 53.41 50.02 74.00 -23.98 peak 6 p 9633.200 10.27 38.64 46.76 50.68 52.83 74.00 -21.17 peak



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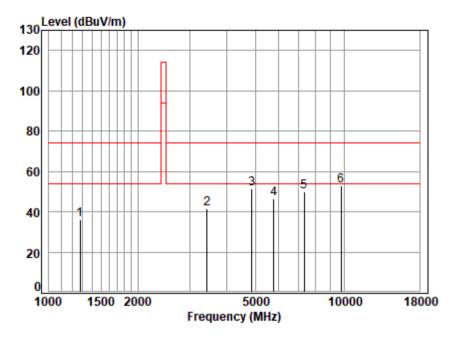
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2438.3 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.71	26.25	48.11	55.25	36.10	74.00	-37.90	peak
2	3435.590	6.24	27.90	48.19	55.60	41.55	74.00	-32.45	peak
3	4876.600	7.76	30.80	47.68	60.67	51.55	74.00	-22.45	peak
4	5780.300	7.43	31.50	47.44	55.05	46.54	74.00	-27.46	peak
5	7314.900	7.84	36.19	47.23	53.19	49.99	74.00	-24.01	peak
6	p 9753.200	10.43	39.12	46.78	50.32	53.09	74.00	-20.91	peak



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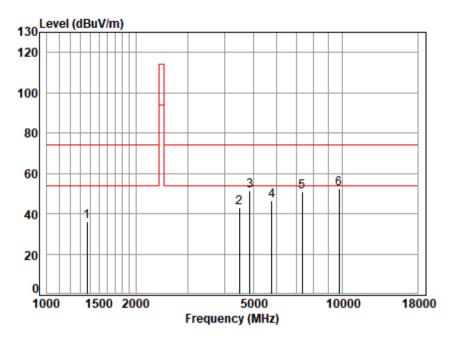
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00006ET

Mode : 2438.3 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1366.374	2.87	26.27	48.14	55.07	36.07	74.00	-37.93	peak
2	4495.125	6.97	30.28	47.93	53.84	43.16	74.00	-30.84	peak
3	4876.600	7.76	30.80	47.68	60.67	51.55	74.00	-22.45	peak
4	5780.300	7.43	31.50	47.44	55.12	46.61	74.00	-27.39	peak
5	7314.900	7.84	36.19	47.23	54.13	50.93	74.00	-23.07	peak
6	p 9753.200	10.43	39.12	46.78	49.63	52.40	74.00	-21.60	peak



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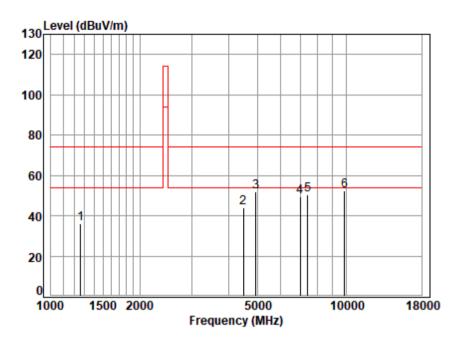
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00006ET

Mode : 2468.3 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.69	26.28	48.10	55.46	36.33	74.00	-37.67	peak
2	4495.125	6.97	30.28	47.93	54.47	43.79	74.00	-30.21	peak
3	4936.600	7.88	30.87	47.64	60.59	51.70	74.00	-22.30	peak
4	6995.172	7.57	35.17	47.30	54.15	49.59	74.00	-24.41	peak
5	7404.900	7.91	36.72	47.22	53.00	50.41	74.00	-23.59	peak
6 p	9873.200								•



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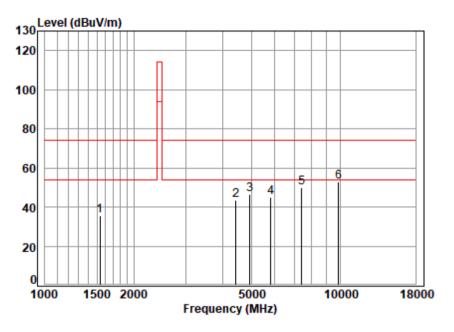
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 00006ET

Mode : 2468.3 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	3.15	25.46	48.19	55.02	35.44	74.00	-38.56	peak
2	4443.453	6.96	30.06	47.97	54.35	43.40	74.00	-30.60	peak
3	4936.600	7.88	30.87	47.64	55.30	46.41	74.00	-27.59	peak
4	5813.812	7.40	31.50	47.43	53.53	45.00	74.00	-29.00	peak
5	7404.900	7.91	36.72	47.22	52.27	49.68	74.00	-24.32	peak
6 p	9873.200	10.58	39.30	46.79	49.95	53.04	74.00	-20.96	peak



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8 Test Setup Photo

Please refer to setup photos.

9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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