

TEST REPORT

Application No.:	GZCR2506000924HS
Applicant:	Aviron Interactive
Address of Applicant:	265 Bartley Drive, North York, Ontario, M4A 2N7, Canada
Manufacturer:	Aviron Interactive
Address of Manufacturer:	265 Bartley Drive, North York, Ontario, M4A 2N7, Canada
Factory:	Xiamen Evere Sports Goods Co., Ltd.
Address of Factory:	101 Ji-An Rd. Tong-An Industry District, Xiamen, Fujian Province, China
Product Name:	Bike Quick Adjust Remote 2
Model No.:	BQR2
Trade Mark:	AVIRON
Standard(s) :	47 CFR Part 15, Subpart C 15.249
Date of Receipt:	2025-06-25
Date of Test:	2025-07-17 to 2025-08-07
Date of Issue:	2025-08-29
Test Result:	Pass*

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

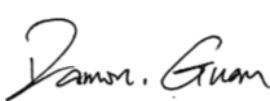
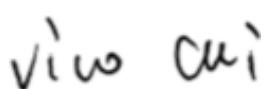


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Revision Record			
Version	Report No.	Date	Remark
01	GZCR250600092402	2025-08-29	Original

Authorized for issue by:			
Tested By	 Damon Guan/Project Engineer		
Approved By	 Vico Cui/Reviewer		



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				
Item	Standard	Method	Requirement	Result
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	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**
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**
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

**: The EUT passed Restricted Band Around Fundamental Frequency and Radiated Emissions (Above 1GHz) tests after modifications.

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.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.0V with CR2032 button cell.
Cable(s):	None.
Test Voltage:	DC 3.0V
Operation Frequency:	2402MHz, 2440MHz, 2480MHz
Modulation Type:	GFSK
Number of Channels:	3
Antenna Number:	1
Antenna Type:	PCB antenna
Antenna Gain:	1.55 dBi according to antenna specification

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength of the Fundamental Signal (15.249(a))	±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Restricted Band Around Fundamental Frequency	±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz)
Radiated Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB(150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Emissions Above 1GHz	±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
20dB Bandwidth	± 0.274%

Remark:
The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663
Tel: +86 20 82155555

No tests were sub-contracted.

4.5 Test Facility

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

- **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.

- **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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

The EUT passed Restricted Band Around Fundamental Frequency and Radiated Emissions (Above 1GHz) tests after modifications.



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5 Equipment List

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



Radiated Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07

Radiated Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2024-08-19	2025-08-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2024-12-03	2025-12-02

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General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02



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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 1.55dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 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

Limit:

Test Distance: 3m

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C Humidity: 59.0 % RH Atmospheric Pressure: 1008 mbar

7.1.2 Test Mode Description

Pre-scan / Mode

Description

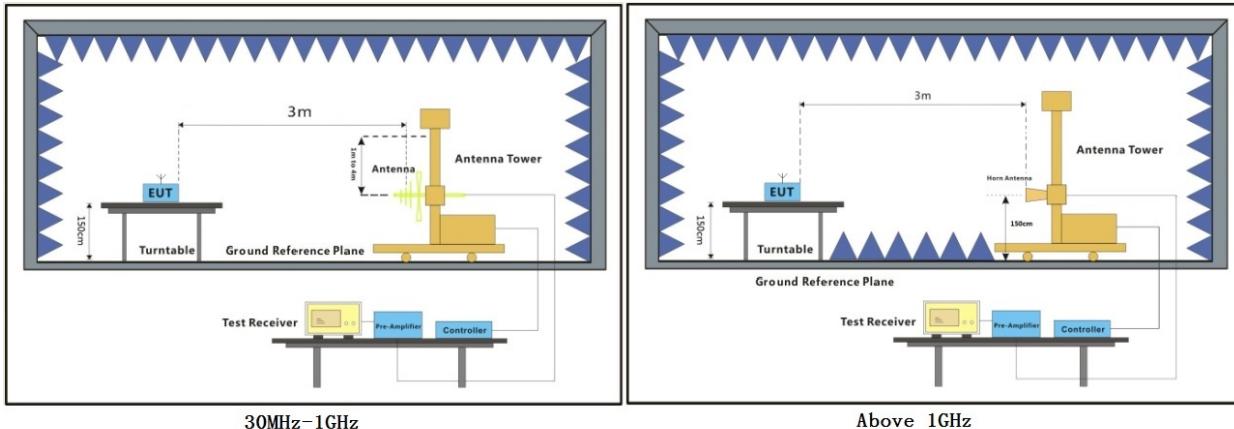
Final test Code

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

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7.1.3 Test Setup Diagram



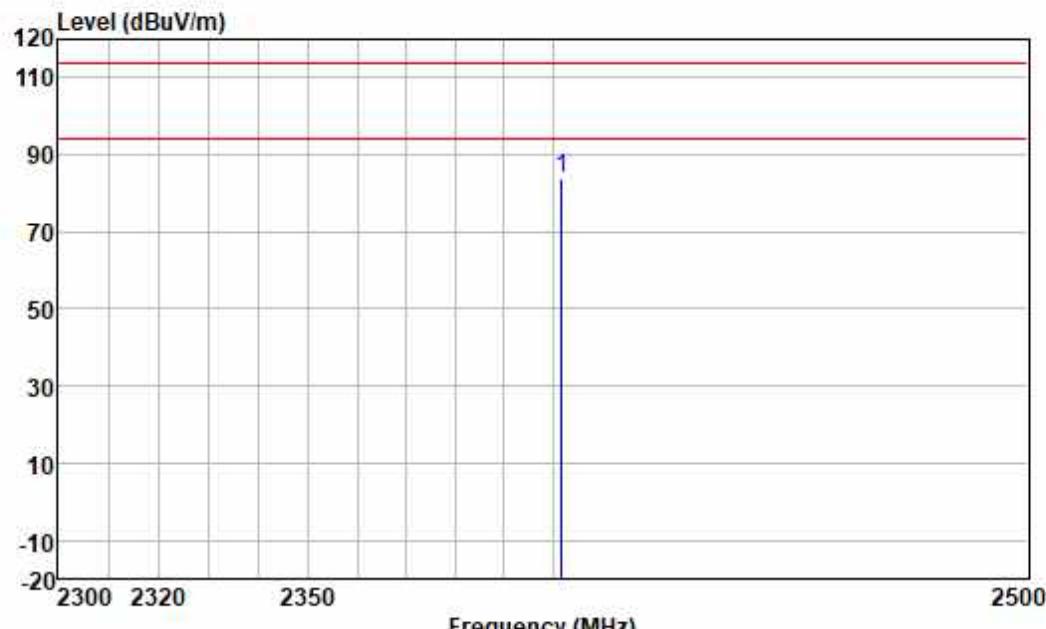
7.1.4 Measurement Procedure and Data

- 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



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



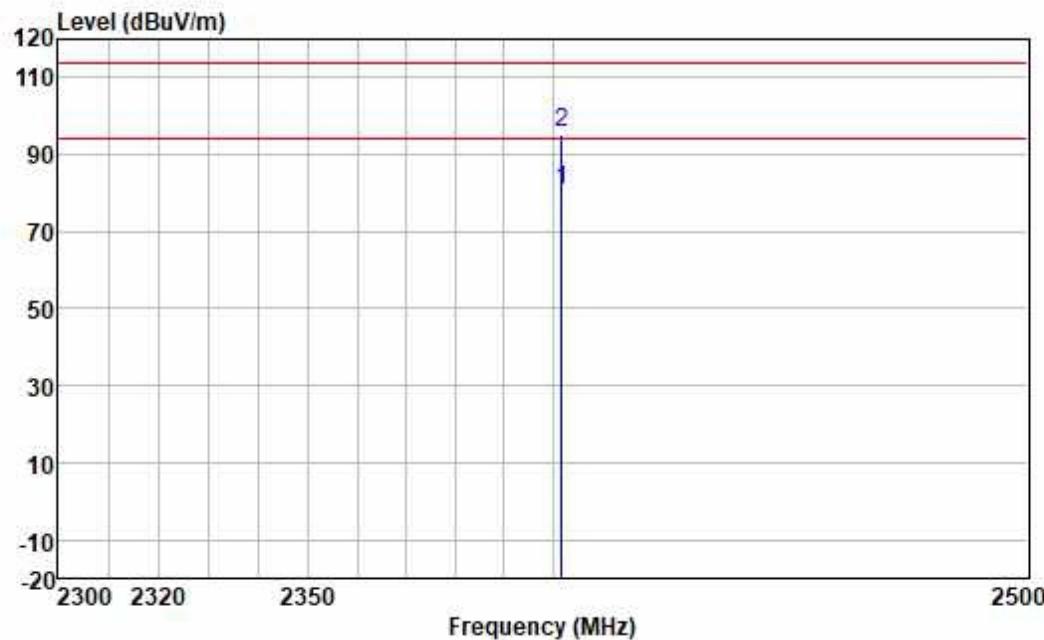
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Loss	Factor				Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2402.000	90.76	27.65	3.45	37.77	84.09	114.00	-29.91 VERTICAL Peak



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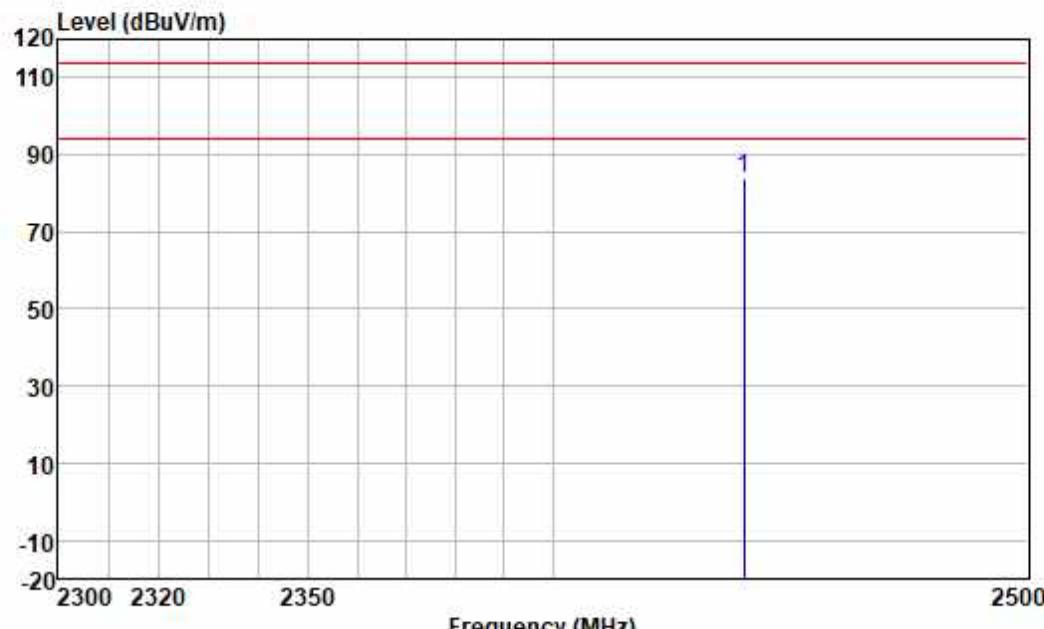
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2402.000	87.21	27.65	3.45	37.77	80.54	94.00	-13.46	HORIZONTAL	Average
2	2402.000	101.31	27.65	3.45	37.77	94.64	114.00	-19.36	HORIZONTAL	Peak



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



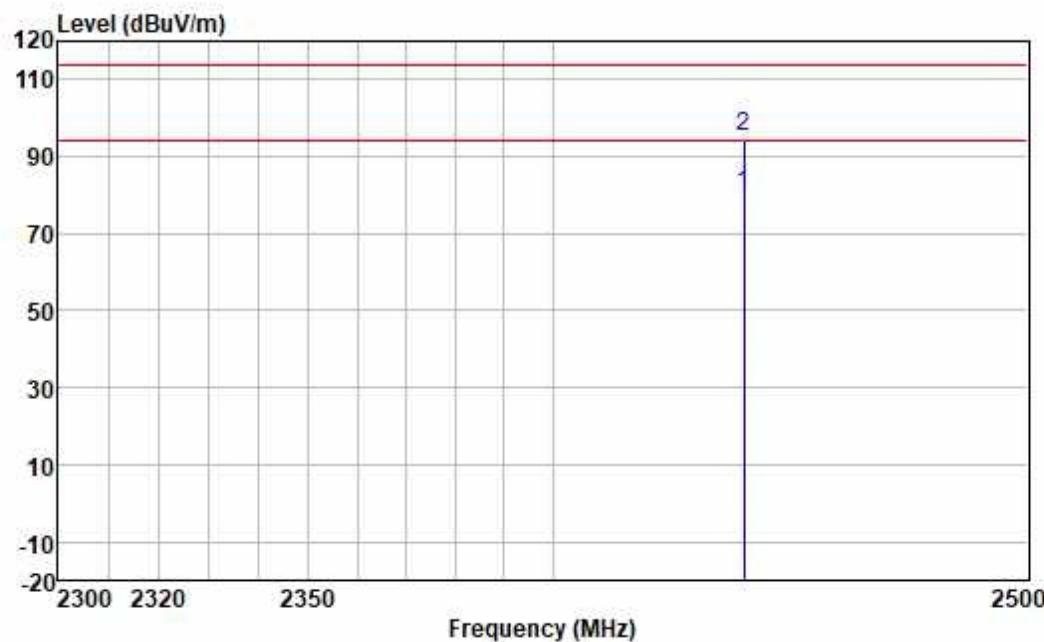
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Loss	Factor				Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2440.000	90.22	27.71	3.47	37.76	83.64	114.00	-30.36 VERTICAL Peak



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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2440.000	86.78	27.71	3.47	37.76	80.20	94.00	-13.80	HORIZONTAL Average
2	2440.000	100.55	27.71	3.47	37.76	93.97	114.00	-20.03	HORIZONTAL Peak

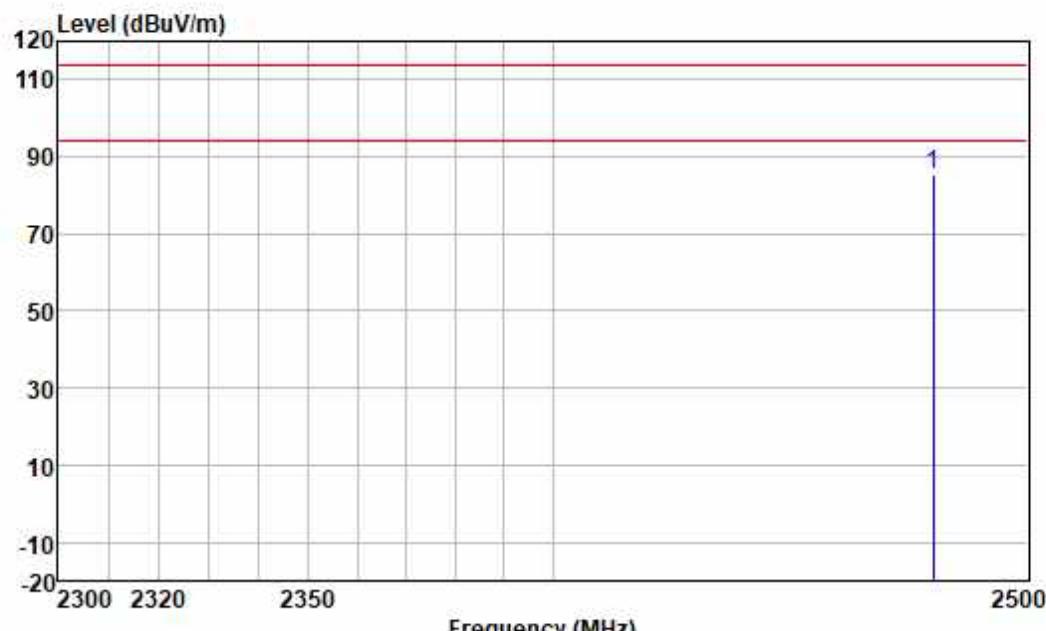
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



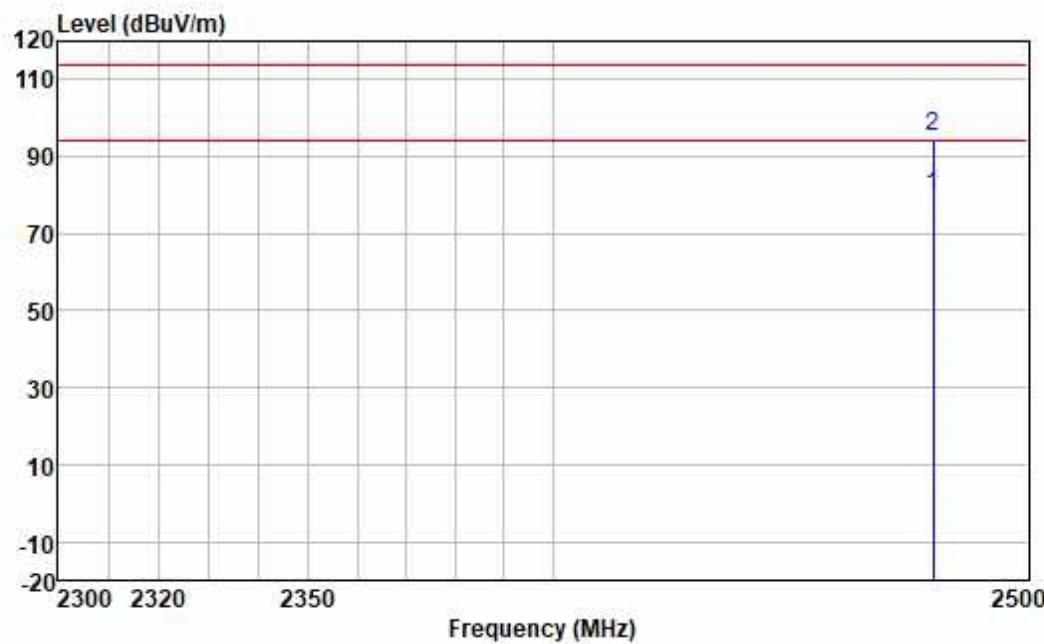
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Over	Over	Remark
	Level	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1 2480.000	91.92	27.75	3.48	37.76	85.39	114.00	-28.61	VERTICAL	Peak



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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2480.000	86.43	27.75	3.48	37.76	79.90	94.00	-14.10	HORIZONTAL Average
2	2480.000	100.73	27.75	3.48	37.76	94.20	114.00	-19.80	HORIZONTAL Peak



7.2 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

Test 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.

7.2.1 E.U.T. Operation

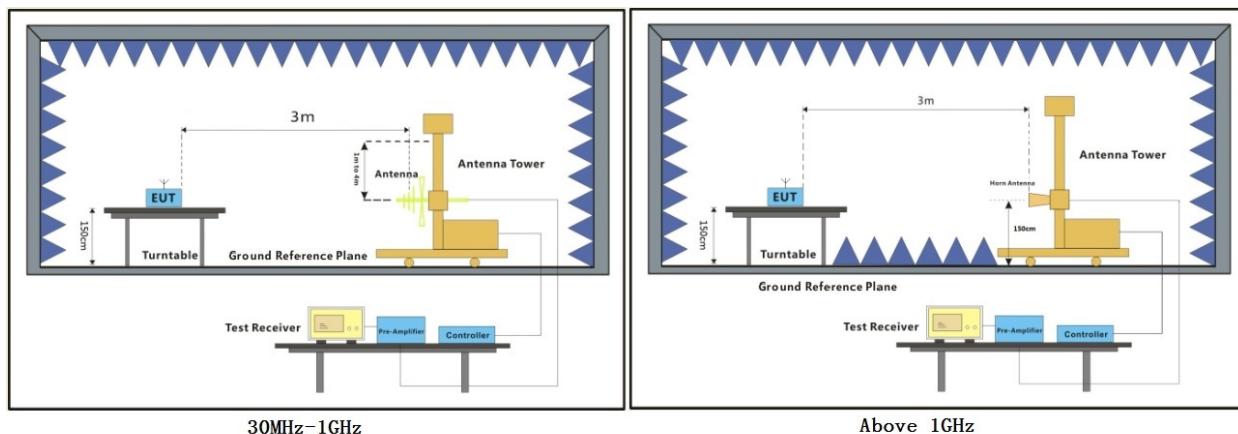
Operating Environment:

Temperature: 22.4 °C Humidity: 52.8 % RH Atmospheric Pressure: 1008 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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. 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



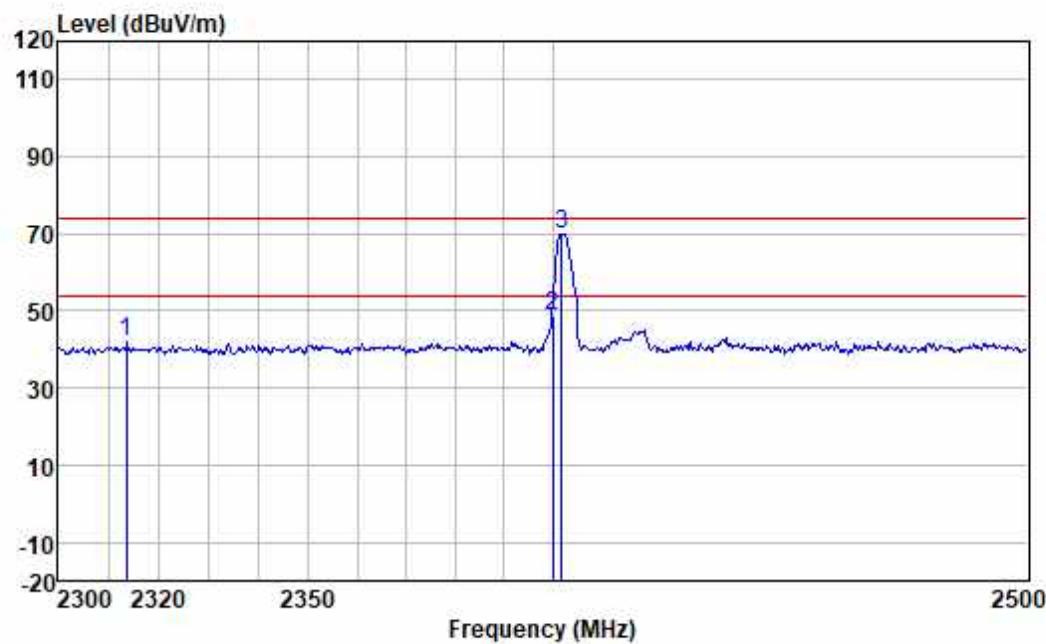
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2313.656	48.76	27.49	3.40	37.78	41.87	74.00	-32.13 VERTICAL peak
2	2400.000	55.59	27.65	3.45	37.77	48.92	74.00	-25.08 VERTICAL peak
3	2402.000	76.69	27.65	3.45	37.77	70.02	74.00	-3.98 VERTICAL peak

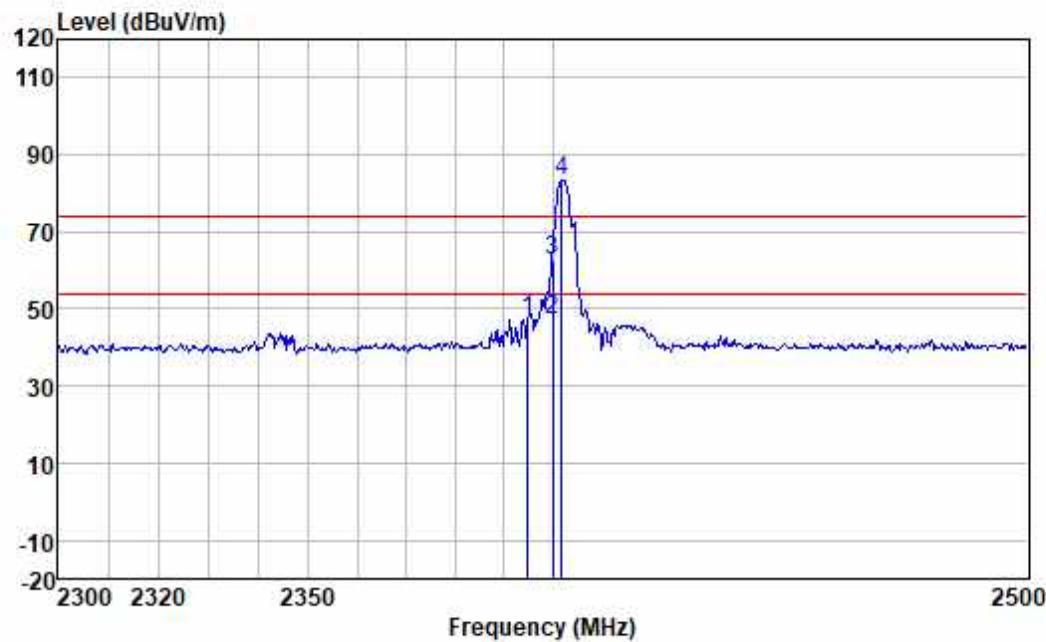
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2394.918	54.03	27.64	3.45	37.77	47.35	74.00	-26.65 HORIZONTAL peak
2	2400.000	53.80	27.65	3.45	37.77	47.13	54.00	-6.87 HORIZONTAL Average
3	2400.000	69.20	27.65	3.45	37.77	62.53	74.00	-11.47 HORIZONTAL peak
4 *	2402.000	89.76	27.65	3.45	37.77	83.09	74.00	9.09 HORIZONTAL peak

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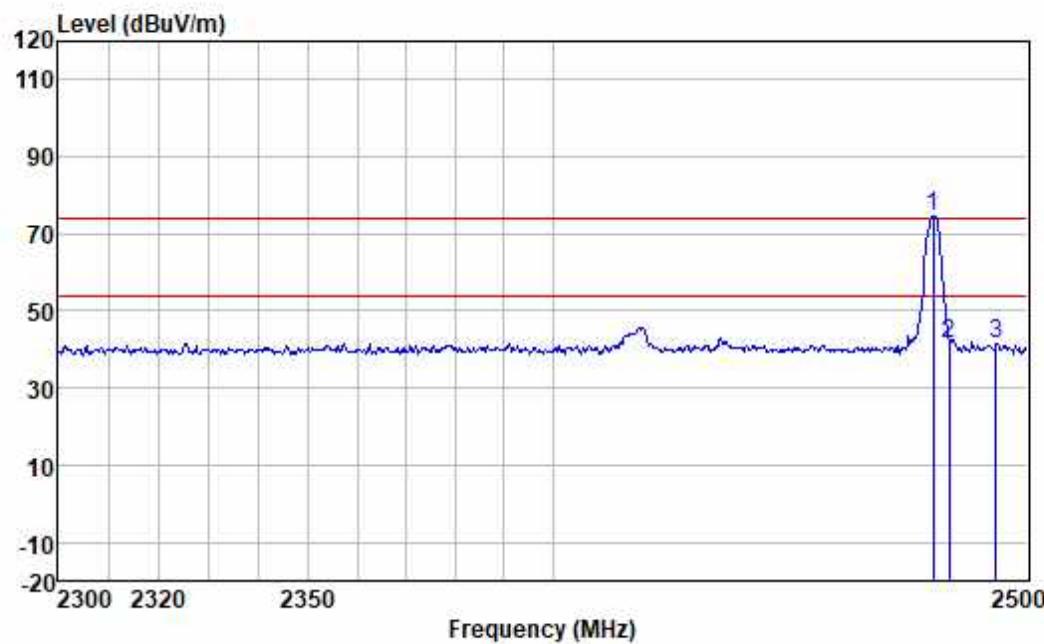
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 * 2480.000	81.18	27.75	3.48	37.76	74.65	74.00	0.65	VERTICAL peak
2 2483.500	47.78	27.76	3.49	37.76	41.27	74.00	-32.73	VERTICAL peak
3 2493.546	47.92	27.76	3.49	37.76	41.41	74.00	-32.59	VERTICAL Peak

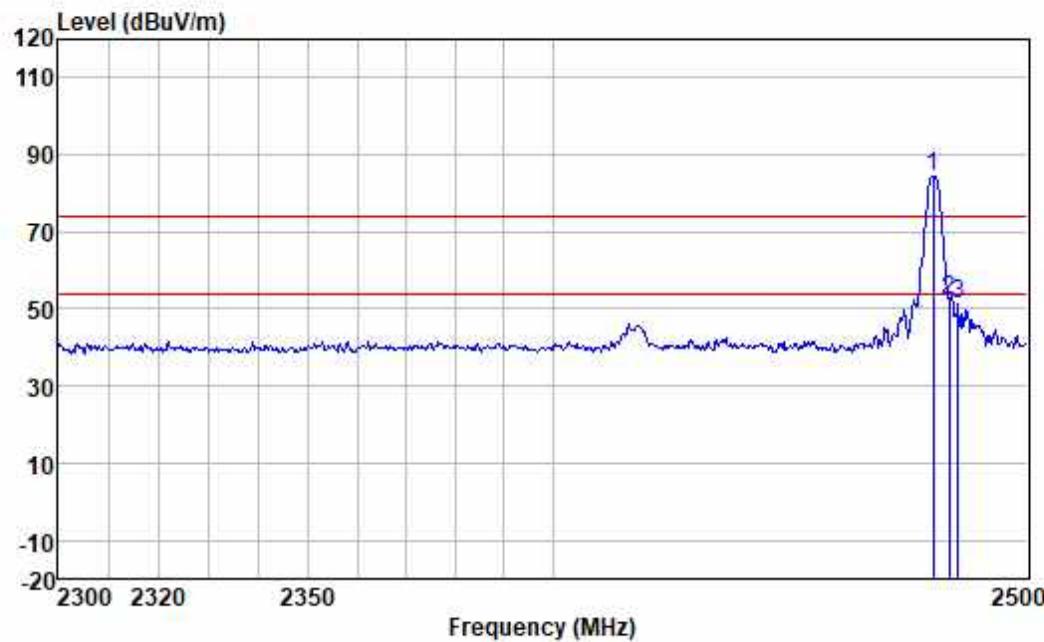
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2480.000	91.07	27.75	3.48	37.76	84.54	74.00	10.54	HORIZONTAL	peak
2 2483.500	58.98	27.76	3.49	37.76	52.47	74.00	-21.53	HORIZONTAL	peak
3 2485.243	57.64	27.76	3.49	37.76	51.13	74.00	-22.87	HORIZONTAL	Peak



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7.3 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:

Test Distance: 3 m

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

7.3.1 E.U.T. Operation

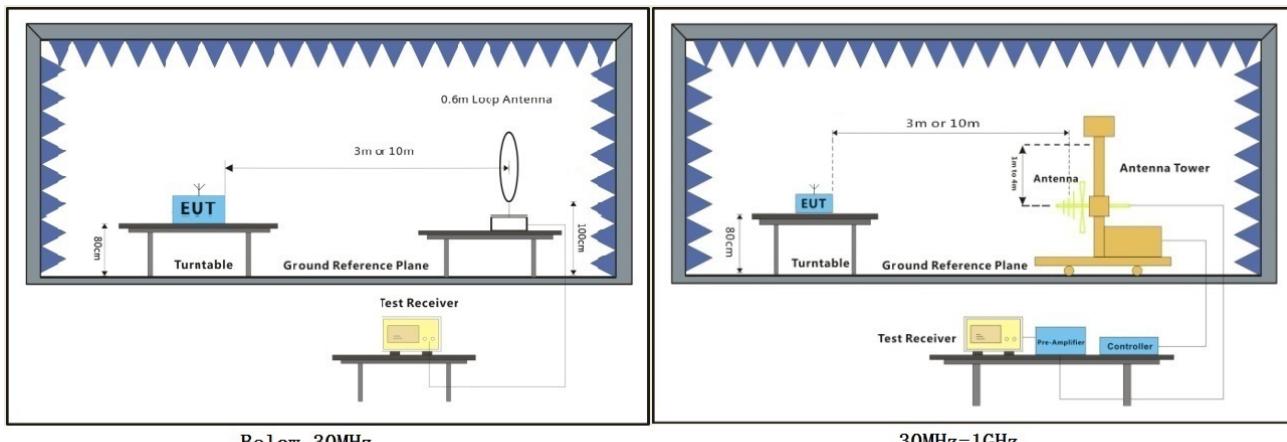
Operating Environment:

Temperature: 24.9 °C Humidity: 50.6 % RH Atmospheric Pressure: 1008 mbar

7.3.2 Test Mode Description

Pre-scan / Mode	Final test Code	Description
Final test	00	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 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.

Remark:

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.



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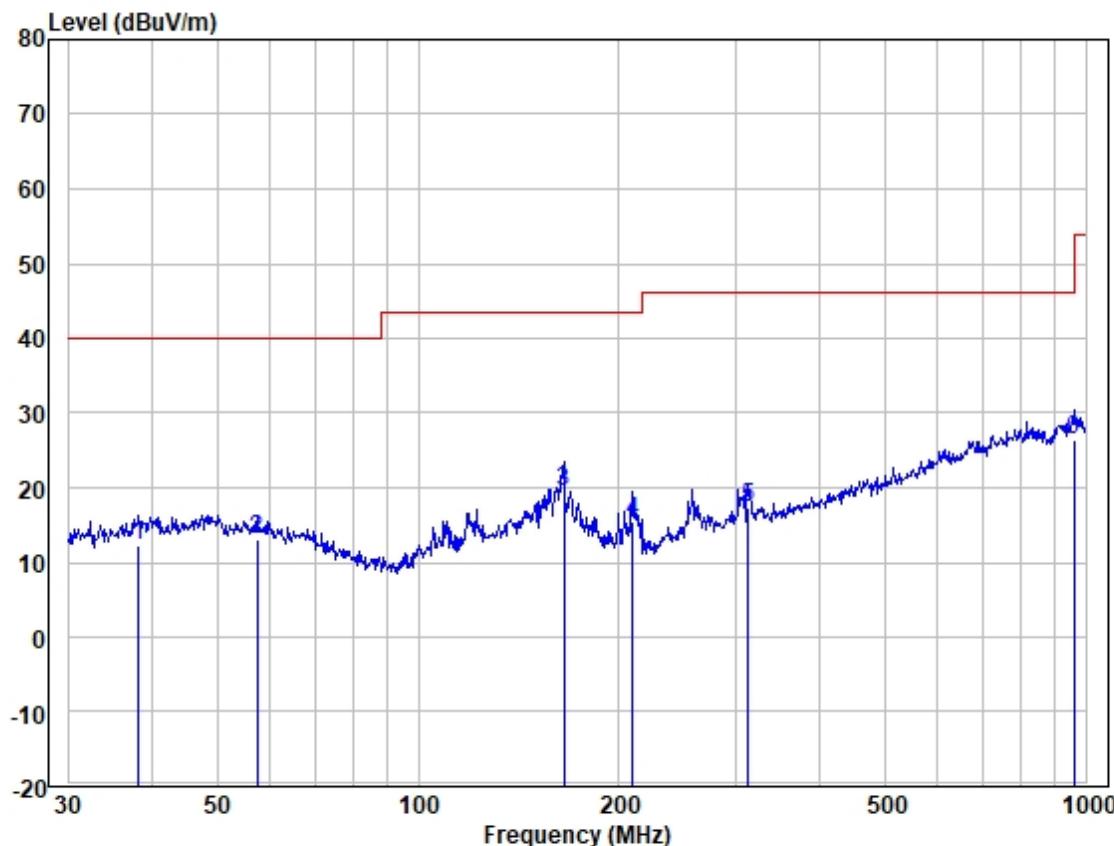
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

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Test Mode: 00; Polarity: Horizontal

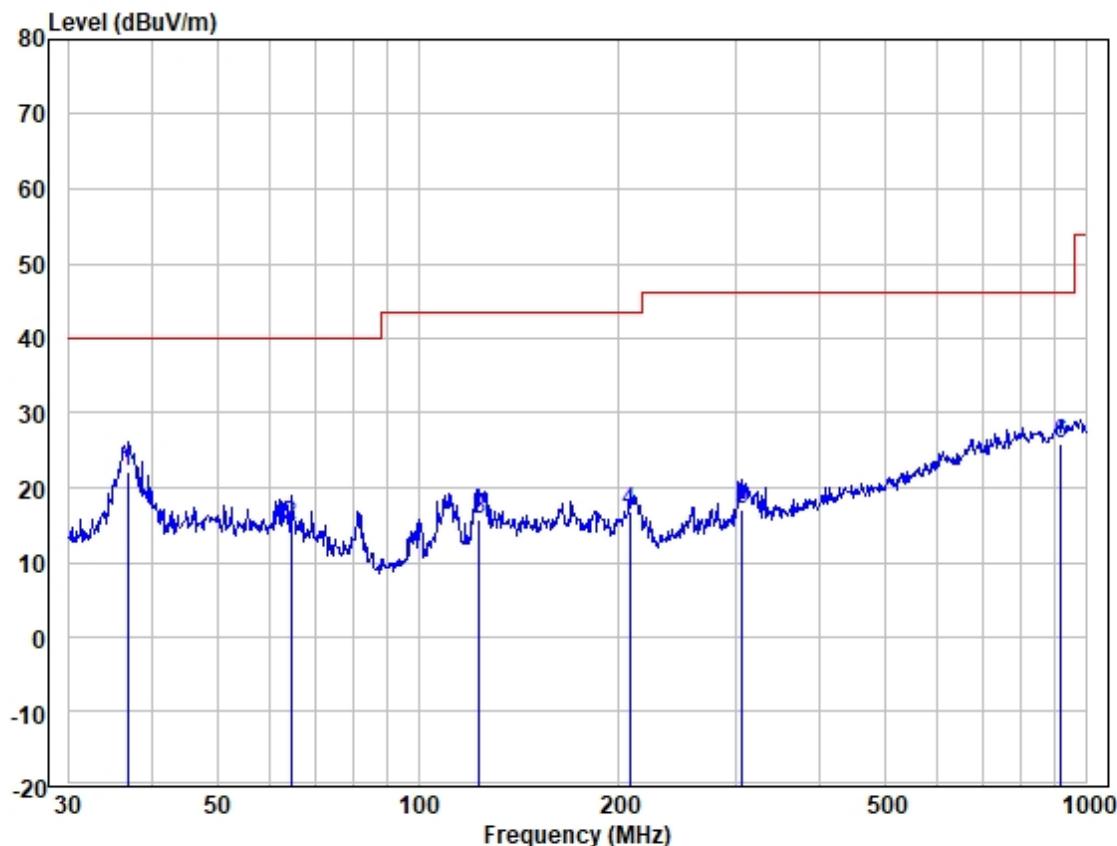


Site : 966 Chamber
Job :
Model :
Power : 120V
Test Mode :

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
1 38.212	25.73	18.96	0.34	32.77	12.26	40.00	-27.74	VERTICAL	QP
2 57.392	26.30	19.17	0.40	32.78	13.09	40.00	-26.91	VERTICAL	QP
3 165.487	32.51	18.89	0.71	32.78	19.33	43.52	-24.19	VERTICAL	QP
4 209.313	31.84	15.52	0.80	32.81	15.35	43.52	-28.17	VERTICAL	QP
5 312.179	29.61	19.63	0.99	32.87	17.36	46.02	-28.66	VERTICAL	QP
6 958.794	25.14	30.10	1.81	30.73	26.32	46.02	-19.70	VERTICAL	QP



Test Mode: 00; Polarity: Vertical



Site : 966 Chamber
Job :
Model :
Power : 120V
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.766	35.82	18.84	0.34	32.77	22.23	40.00	-17.77	VERTICAL	QP
2 64.433	28.87	18.37	0.43	32.77	14.90	40.00	-25.10	VERTICAL	QP
3 123.699	30.59	17.28	0.61	32.72	15.76	43.52	-27.76	VERTICAL	QP
4 207.123	33.17	15.56	0.80	32.81	16.72	43.52	-26.80	VERTICAL	QP
5 305.680	29.50	19.42	0.99	32.87	17.04	46.02	-28.98	VERTICAL	QP
6 916.069	25.64	29.44	1.77	30.93	25.92	46.02	-20.10	VERTICAL	QP



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7.4 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

7.4.1 E.U.T. Operation

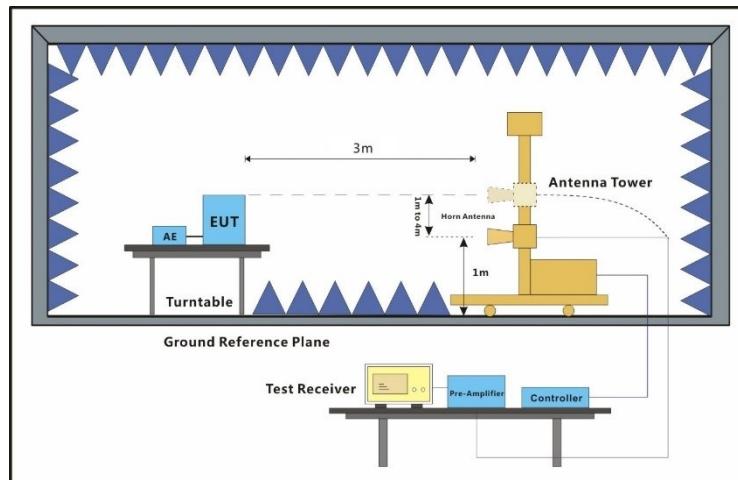
Operating Environment:

Temperature: 22.4 °C Humidity: 52.8 % RH Atmospheric Pressure: 1008 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

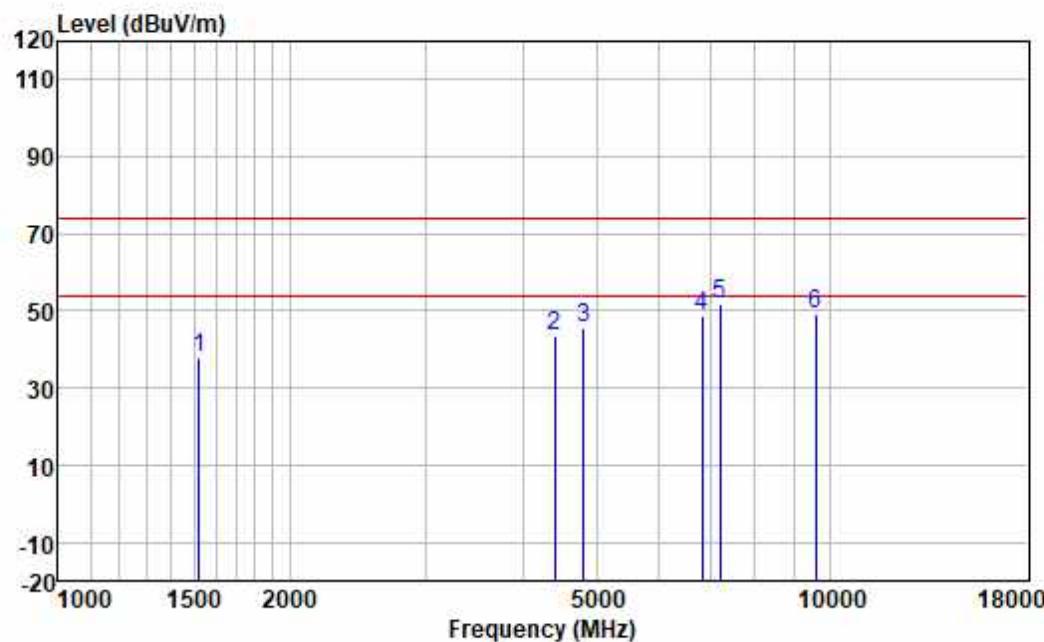
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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



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



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Loss	Factor					
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1 1525.000	47.69	25.93	2.71	38.26	38.07	74.00	-35.93	VERTICAL peak
2 4405.090	45.74	30.80	4.61	37.46	43.69	74.00	-30.31	VERTICAL peak
3 4804.000	46.65	31.51	4.81	37.38	45.59	74.00	-28.41	VERTICAL peak
4 6835.278	44.96	34.96	5.81	37.13	48.60	74.00	-25.40	VERTICAL peak
5 7206.000	47.33	35.80	5.93	37.17	51.89	74.00	-22.11	VERTICAL peak
6 9608.000	40.64	38.70	7.04	37.11	49.27	74.00	-24.73	VERTICAL peak

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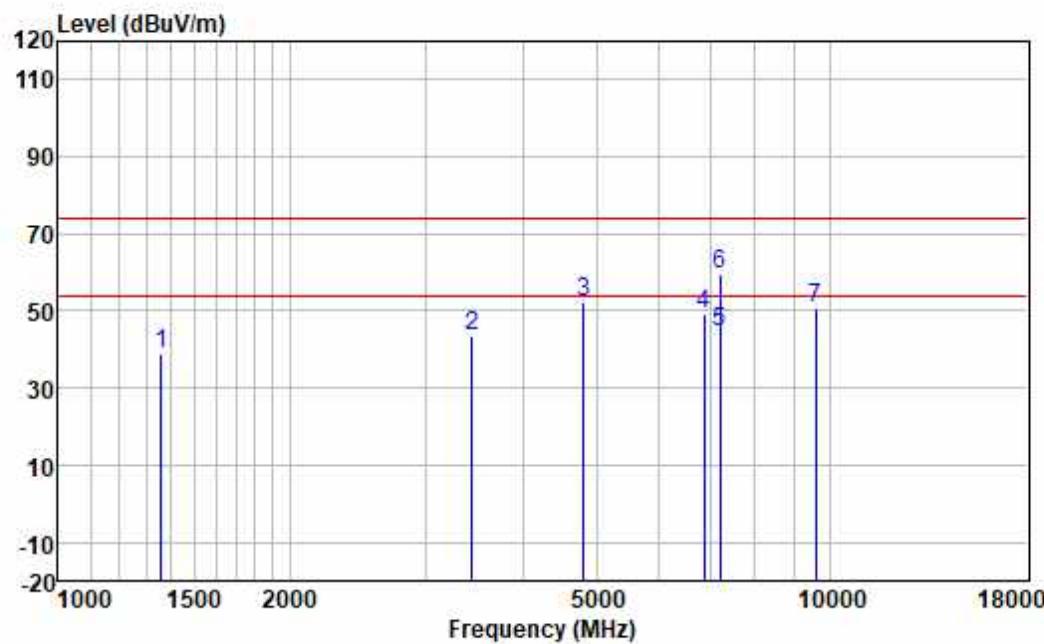
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Test Mode:00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



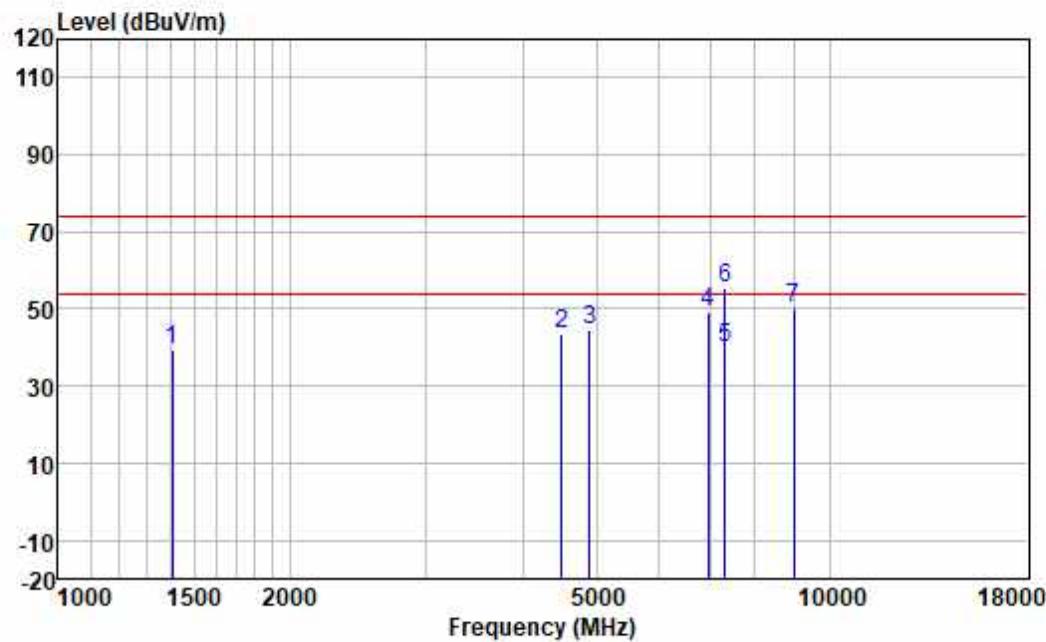
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1358.498	49.01	25.73	2.63	38.53	38.84	74.00	-35.16	HORIZONTAL peak
2	3435.590	48.20	28.95	4.07	37.55	43.67	74.00	-30.33	HORIZONTAL peak
3	4804.000	53.56	31.51	4.81	37.38	52.50	74.00	-21.50	HORIZONTAL peak
4	6874.906	45.36	35.04	5.83	37.14	49.09	74.00	-24.91	HORIZONTAL peak
5	7206.000	39.78	35.80	5.93	37.17	44.34	54.00	-9.66	HORIZONTAL Average
6	7206.000	55.17	35.80	5.93	37.17	59.73	74.00	-14.27	HORIZONTAL peak
7	9608.000	42.30	38.70	7.04	37.11	50.93	74.00	-23.07	HORIZONTAL peak



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



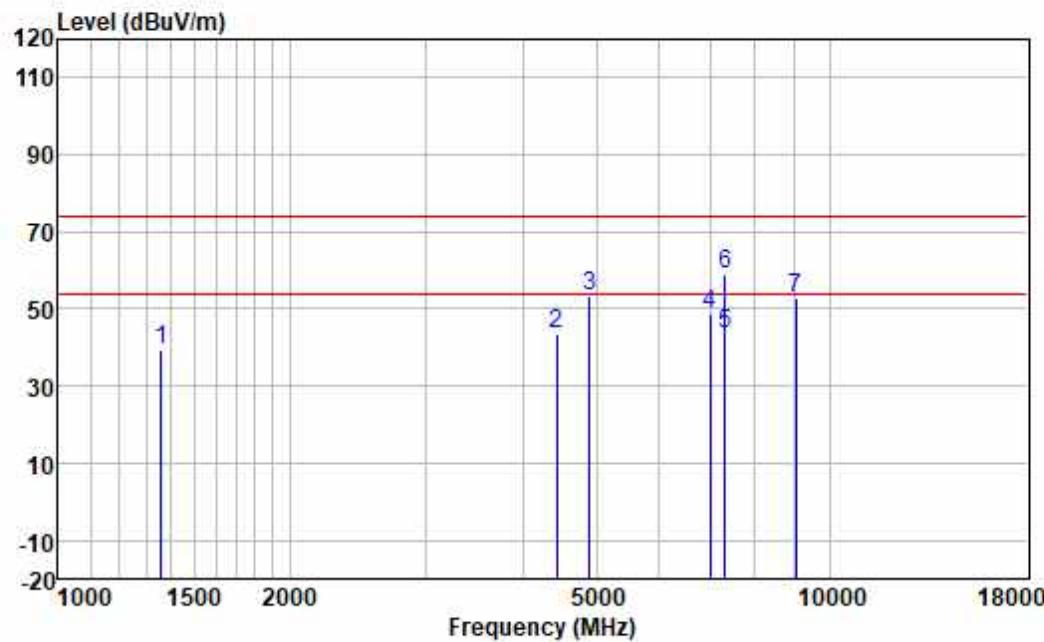
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1406.443	49.32	25.80	2.66	38.47	39.31	74.00	-34.69 VERTICAL peak
2	4495.125	45.65	30.91	4.62	37.44	43.74	74.00	-30.26 VERTICAL peak
3	4880.000	45.66	31.63	4.85	37.35	44.79	74.00	-29.21 VERTICAL peak
4	6954.852	45.22	35.17	5.86	37.14	49.11	74.00	-24.89 VERTICAL peak
5	7320.000	34.69	36.29	5.98	37.18	39.78	54.00	-14.22 VERTICAL Average
6	7320.000	50.08	36.29	5.98	37.18	55.17	74.00	-18.83 VERTICAL peak
7	8995.123	43.45	37.60	6.57	37.15	50.47	74.00	-23.53 VERTICAL peak



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



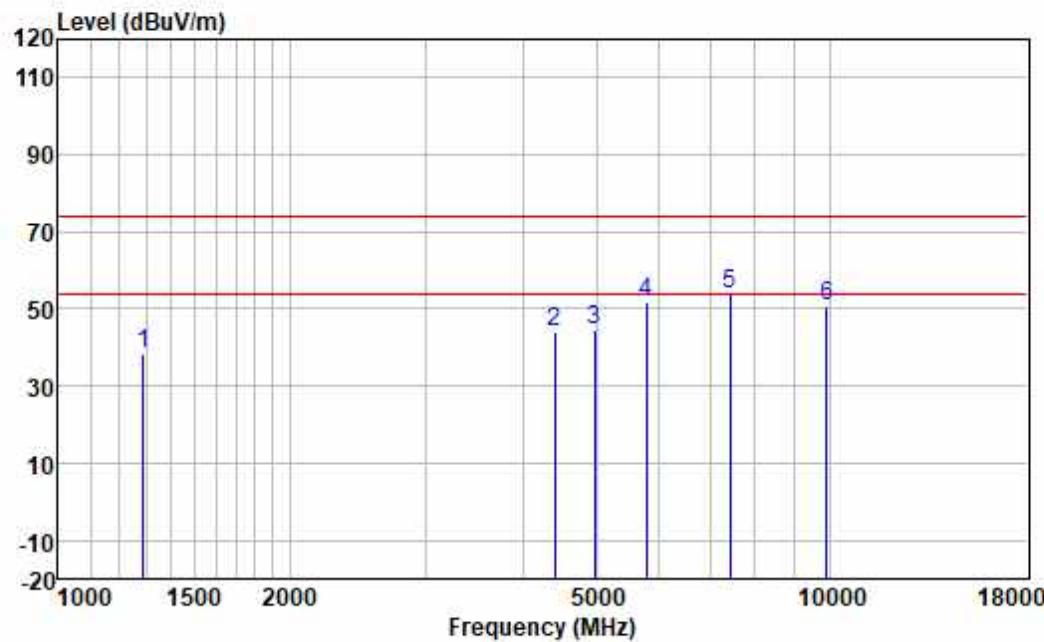
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1358.498	49.59	25.73	2.63	38.53	39.42	74.00	-34.58 HORIZONTAL peak
2	4430.628	45.72	30.83	4.61	37.45	43.71	74.00	-30.29 HORIZONTAL peak
3	4880.000	54.02	31.63	4.85	37.35	53.15	74.00	-20.85 HORIZONTAL peak
4	6995.172	44.89	35.23	5.87	37.15	48.84	74.00	-25.16 HORIZONTAL peak
5	7320.000	38.40	36.29	5.98	37.18	43.49	54.00	-10.51 HORIZONTAL Average
6	7320.000	53.79	36.29	5.98	37.18	58.88	74.00	-15.12 HORIZONTAL peak
7	9047.272	45.91	37.68	6.60	37.14	53.05	74.00	-20.95 HORIZONTAL peak



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



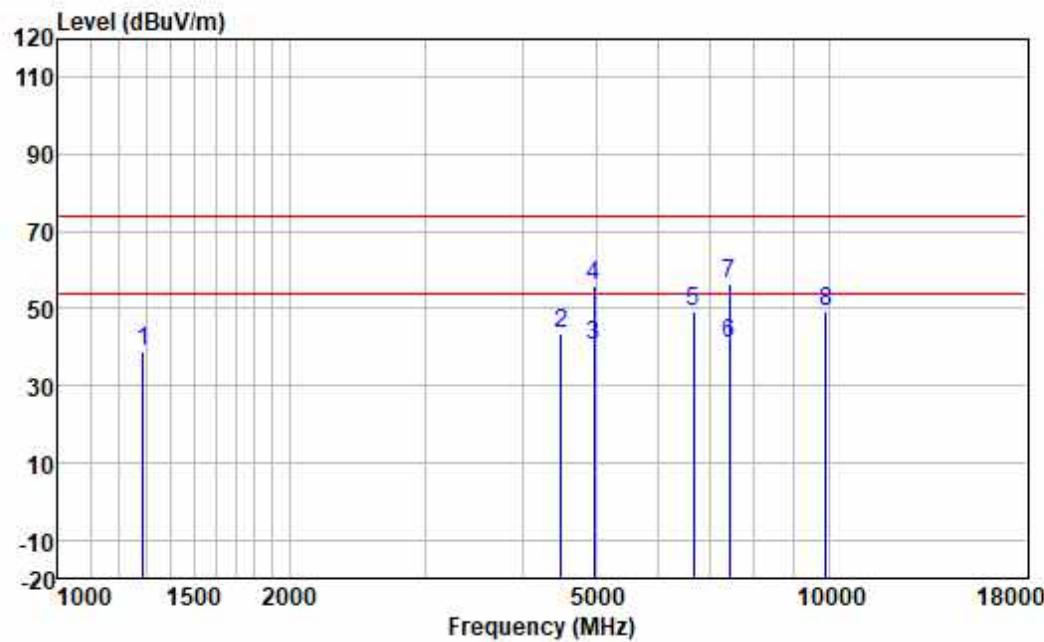
Freq	ReadAntenna	Cable			Limit	Over	Over	Remark
	Level	Antenna	Preamp	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1289.627	48.80	25.56	2.58	38.60	38.34	74.00	-35.66 VERTICAL peak
2	4405.090	46.20	30.80	4.61	37.46	44.15	74.00	-29.85 VERTICAL peak
3	4960.000	45.19	31.74	4.89	37.32	44.50	74.00	-29.50 VERTICAL peak
4	5780.300	51.29	32.53	5.33	37.12	52.03	74.00	-21.97 VERTICAL peak
5	7440.000	48.44	36.57	6.02	37.18	53.85	74.00	-20.15 VERTICAL peak
6	9920.000	41.84	39.07	7.19	37.10	51.00	74.00	-23.00 VERTICAL peak



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



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m				
1	1289.627	49.21	25.56	2.58	38.60	38.75	74.00	-35.25	HORIZONTAL	peak
2	4495.125	45.47	30.91	4.62	37.44	43.56	74.00	-30.44	HORIZONTAL	peak
3	4960.000	41.22	31.74	4.89	37.32	40.53	54.00	-13.47	HORIZONTAL	Average
4	4960.000	56.61	31.74	4.89	37.32	55.92	74.00	-18.08	HORIZONTAL	peak
5	6679.040	45.95	34.53	5.72	37.12	49.08	74.00	-24.92	HORIZONTAL	peak
6	7440.000	35.49	36.57	6.02	37.18	40.90	54.00	-13.10	HORIZONTAL	Average
7	7440.000	50.88	36.57	6.02	37.18	56.29	74.00	-17.71	HORIZONTAL	peak
8	9920.000	40.18	39.07	7.19	37.10	49.34	74.00	-24.66	HORIZONTAL	peak

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7.5 20dB Bandwidth

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

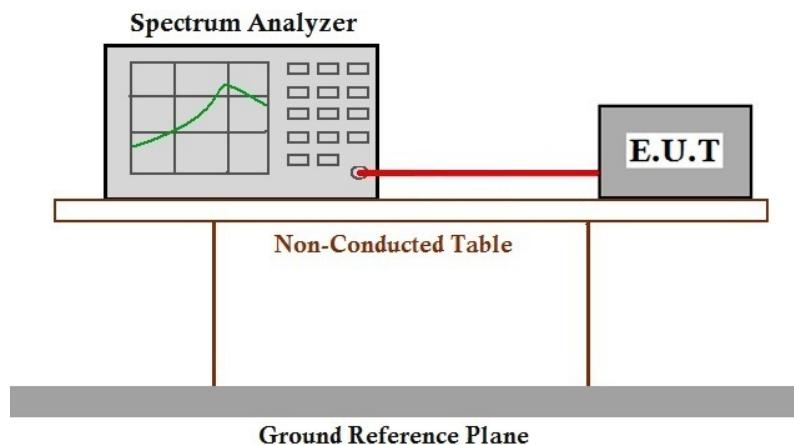
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 60.3 % RH Atmospheric Pressure: 1008 mbar

7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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

Test Mode 00; Low channel.



Test Mode 00; Middle channel.



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Test Mode 00; High channel.



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8 Test Setup Photo

Refer to Setup Photos for GZCR250600092402



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2506000924HS

- End of the Report -



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