

SZCCS-TRF-01 Rev. A/0 Aug01,2022

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# TEST REPORT

Application No.:	FYCR2210000418AT
Applicant:	Cosonic Intelligent Technologies Co., Ltd.
Address of Applicant:	5th Floor, 1st Building, No.6 South Industry Road Songshan Lake Hi-tech Industrial Development Zone, Dongguan 523808 China
Manufacturer:	Cosonic Intelligent Technologies Co., Ltd.
Address of Manufacturer:	Room 506 building 1, No.6, South Industrial Road, Songshan Lake High- tech Industrial Development Zone, Dongguan, Guangdong, China
Factory:	Cosonic Intelligent Technologies Co., Ltd.
Address of Factory:	Room 506 building 1, No.6, South Industrial Road, Songshan Lake High- tech Industrial Development Zone, Dongguan, Guangdong, China
Equipment Under Test (EUT	):
EUT Name:	ONN. OVER EAR ANC GEN2
Model Name:	100094748
Trade Mark:	onn.
FCC ID:	2ALVK-ONN94748
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-10-25
Date of Test:	2022-10-27 to 2022-10-29
Date of Issue:	2022-11-04
Test Result:	Pass*

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

WinkeyWang

Winkey Wang EMC Technical Manager



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2022-11-04		Original		

Authorized for issue by:		
	Gree Zhan	
	Tree Zhan/Project Engineer	
	WinkeyWang	
	Winkey Wang/Reviewer	



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### 2 Test Summary

Radio Spectrum Technical Requirement					
Item Standard Method Requirement Result					
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass	

Radio Spectrum Matter Part					
ltem	Standard	Method	Requirement	Result	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	



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#### **General Information** 4

#### 4.1 Details of E.U.T.

Power supply:	Rechargeable battery: DC 3.7V 570mAh 2.11Wh(Charging by USB cable)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	-0.62dBi

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

#### 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
Conducted Peak Output Power	± 0.8dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)
Remark <sup>.</sup>	

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispt/ETSI</sub> (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

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Power Spectrum Density	у				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Band Edges Measurement								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			

Conducted Spurious Emissions								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25		



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MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24		
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11		
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11		
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23		
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15		
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14		
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11	
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11	



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 Barometer
 DUMAI
 DYM3
 SEM002-24
 2022-07-12
 2023-07-11



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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 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.62dBi.

Antenna location: Refer to internal photo.



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#### **Radio Spectrum Matter Test Results** 7

### 7.1 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Output many of the interaction of the distant		
Output power of the intentional radiator(watt)		
1 for ≥50 hopping channels		
0.25 for 25≤ hopping channels <50		
1 for digital modulation		
1 for ≥75 non-overlapping hopping channels		
0.125 for all other frequency hopping systems		
1 for digital modulation		
1 for frequency hopping systems and digital modulation		

#### 7.1.1 E.U.T. Operation

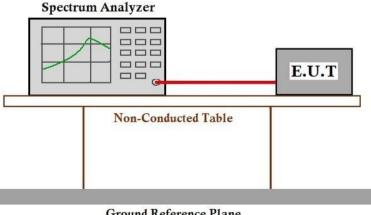
**Operating Environment:** 

	1 0						
-	Temperature:	26.1 °C	Humidity:	46.6 % RH	Atmospheric Pressure:	1020	mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.1.3 Test Setup Diagram



**Ground Reference Plane** 



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#### 7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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#### 7.2 Minimum 6dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

#### 7.2.1 E.U.T. Operation

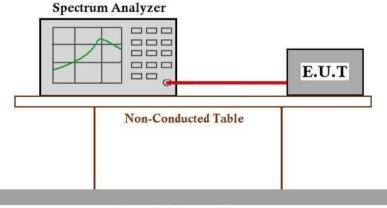
Operating Environment:

Temperature:	26.1 °C	Humidity.	46.6 % RH	Atmospheric Pressure:	1020	mbar
remperature.	20.1 0	riumuity.	40.0 /0101	Autosphene i ressure.	1020	mbai

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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#### 7.3 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

#### 7.3.1 E.U.T. Operation

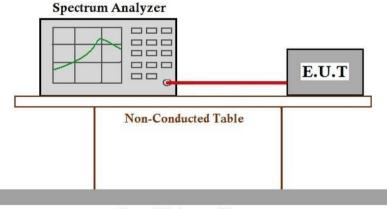
Operating Environment:

Temperature:	26.1 °C	Humidity <sup>.</sup>	46.6 % RH	Atmospheric Pressure:	1020	mbar
i emperatarei	=====	i i di i i di i i di i gi i				

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.3.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.13.3.2

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c).

#### 7.4.1 E.U.T. Operation

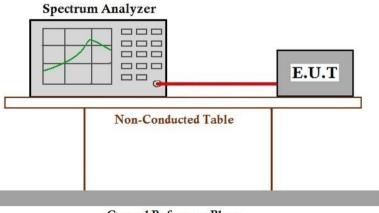
Operating Environment:

						_
Temperature:	26.1 °C	Humidity:	46.6 % RH	Atmospheric Pressure:	1020	mbar
-						

Pre-scan / Final test	Mode Code	Description				
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				

#### 7.4.2 Test Mode Description

#### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 



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#### 7.4.4 Measurement Procedure and Data

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### 7.5 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c).

#### 7.5.1 E.U.T. Operation

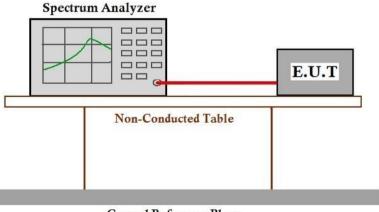
Operating Environment:

Temperature: 20	26.1 °C	Humidity:	46.6 % RH	Atmospheric Pressure:	1020	mbar
-----------------	---------	-----------	-----------	-----------------------	------	------

Pre-scan / Final test	Mode Code	Description				
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				

#### 7.5.2 Test Mode Description

#### 7.5.3 Test Setup Diagram



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#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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#### 7.6 Radiated Emissions which fall in the restricted bands

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

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
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

#### 7.6.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	22.2 °C	Humidity:	55.5 % RH	Atmospheric Pressure: 1020	mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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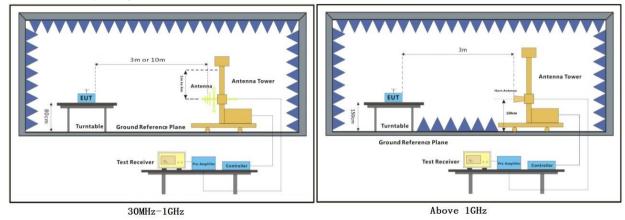
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#### 7.6.3 Test Setup Diagram



#### 7.6.4 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. 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 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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

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

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

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

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

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

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

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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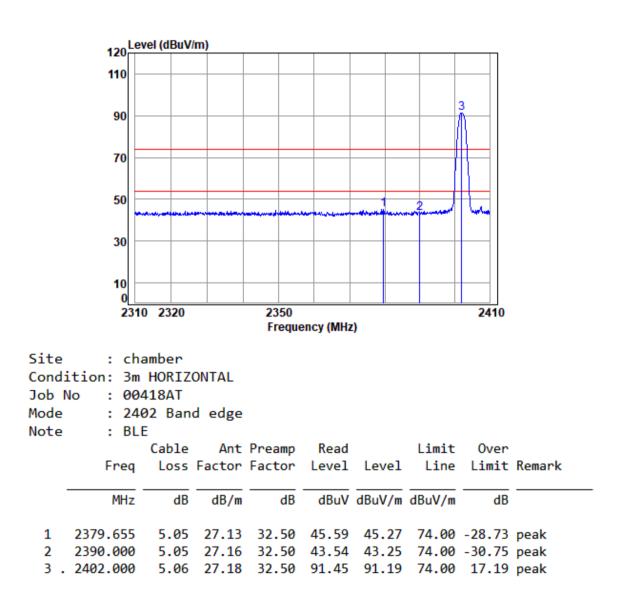
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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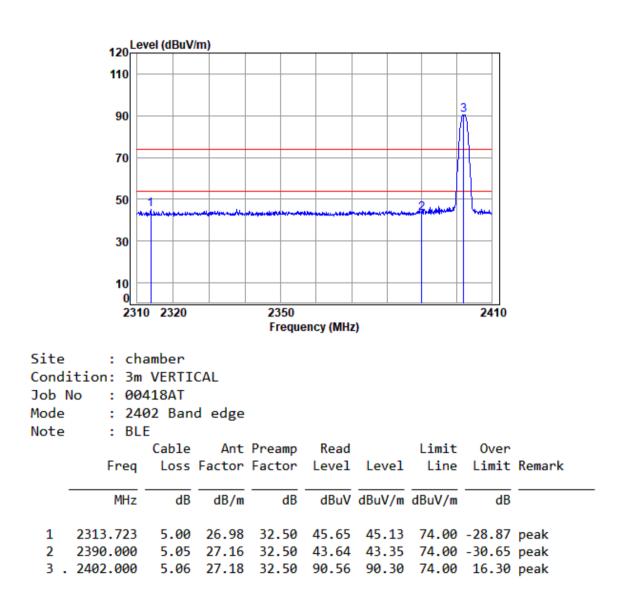
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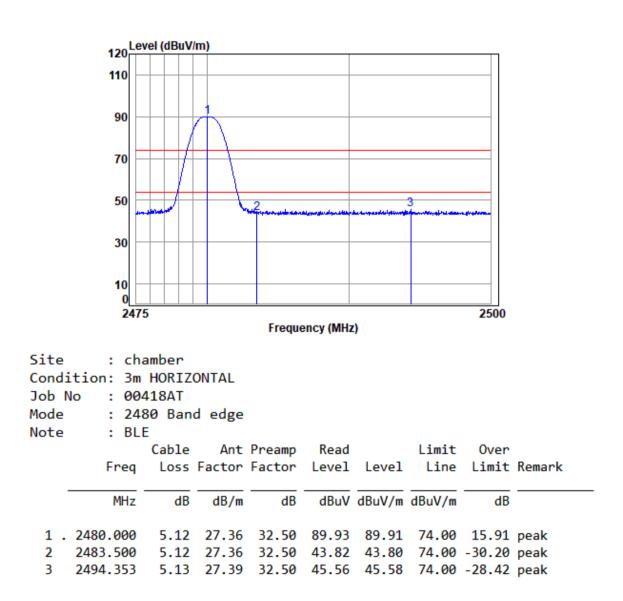
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High





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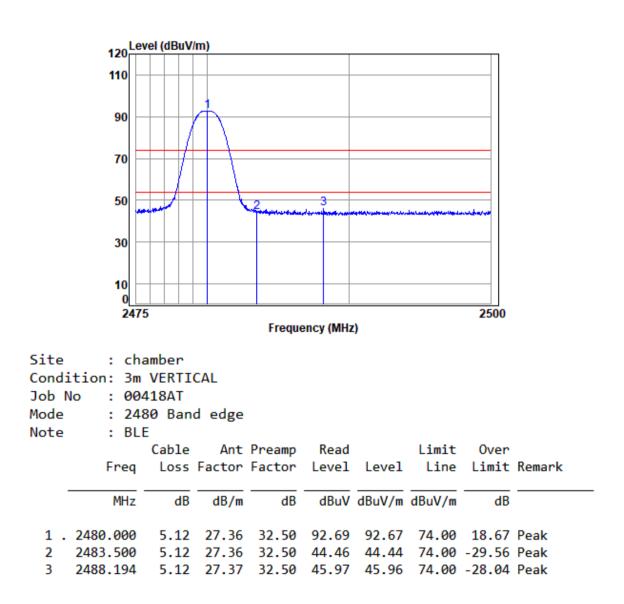
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High





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#### 7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance:	3m

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

#### 7.7.1 E.U.T. Operation

Operating Environ	ment:					
Temperature:	23.2 °C	Humidity:	52.1 % RH	Atmospheric Pressure:	1020	mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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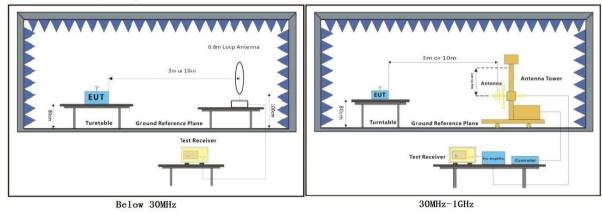
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#### 7.7.3 Test Setup Diagram



#### 7.7.4 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 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.

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.



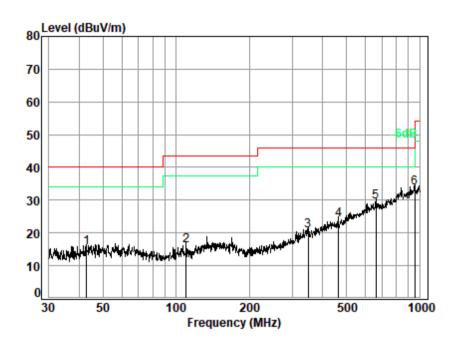
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Test Mode: 03; Polarity: Horizontal

Site :	chamber
Condition:	3m HORIZONTAL
Job No :	00418AT
Mode :	03

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	42.7496	0.22	17.21	26.01	24.03	15.45	40.00	-24.55	QP
2	110.1816	0.93	15.22	25.58	25.62	16.19	43.50	-27.31	QP
3	348.0274	1.50	19.81	25.43	24.73	20.61	46.00	-25.39	QP
4	463.9696	1.46	21.87	25.49	26.08	23.92	46.00	-22.08	QP
	661.1505								-
	955.4382								-



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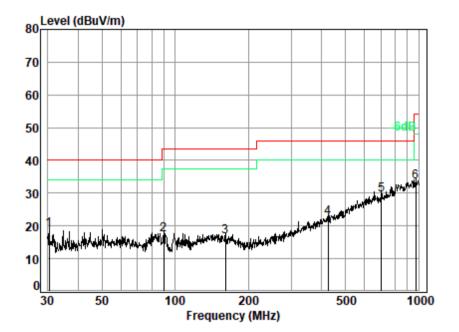
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#### Site : chamber Condition: 3m VERTICAL Job No : 00418AT

Mode : 03

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.3173	0.20	16.13	26.03	28.51	18.81	40.00	-21.19	QP
2	89.9047	0.67	13.61	25.70	28.84	17.42	43.50	-26.08	QP
3	160.9089	0.84	17.18	25.51	24.32	16.83	43.50	-26.67	QP
4	425.0280	1.58	21.15	25.47	25.28	22.54	46.00	-23.46	QP
5	704.2261	1.73	25.73	24.55	26.53	29.44	46.00	-16.56	QP
6	972.3373	2.50	29.10	24.03	25.76	33.33	54.00	-20.67	QP



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#### 7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6
Measurement Distance:	3m

Limit:

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

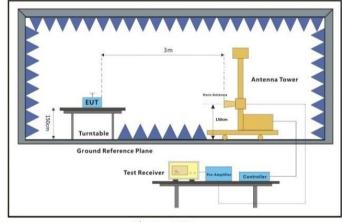
#### 7.8.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	21.5 °C	Humidity:	53.0 % RH	Atmospheric Pressure:	1020	mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.8.3 Test Setup Diagram



Above 1GHz



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#### 7.8.4 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 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. 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.



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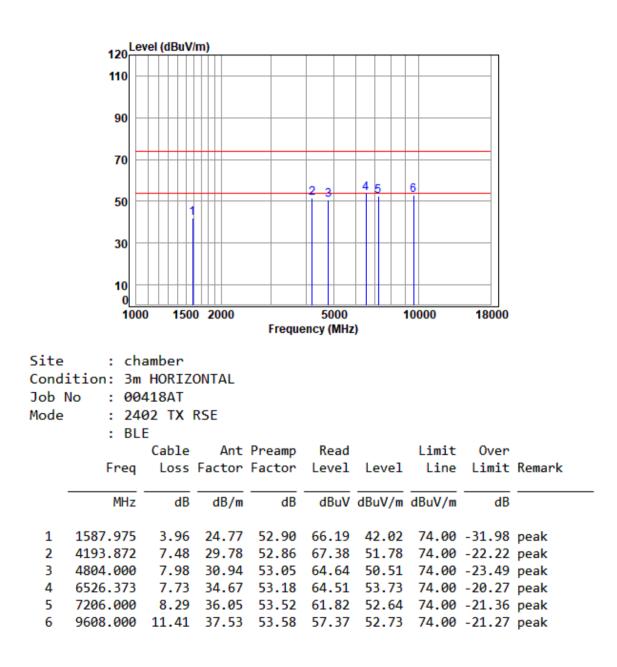
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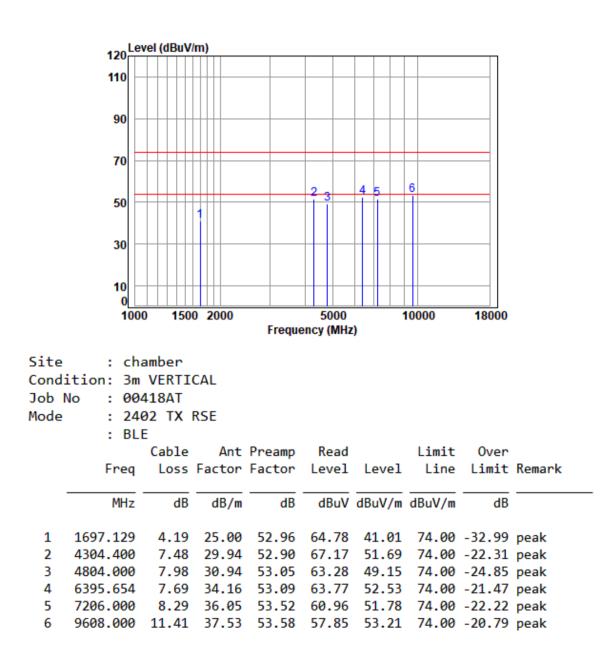
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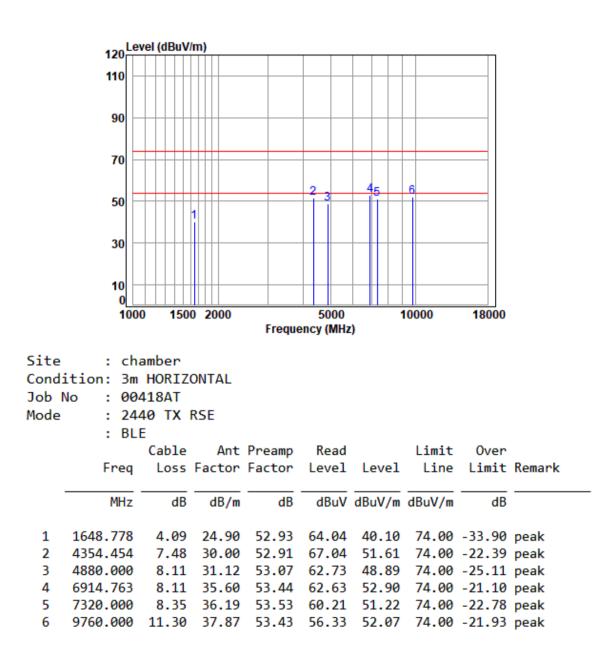
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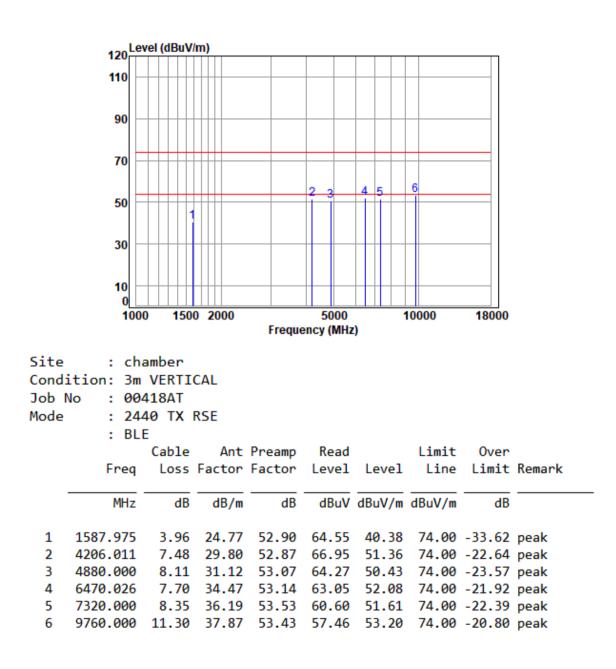
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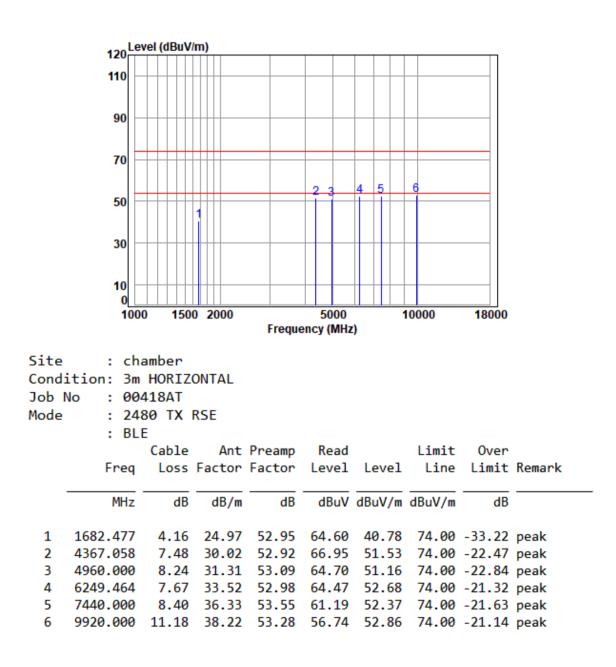
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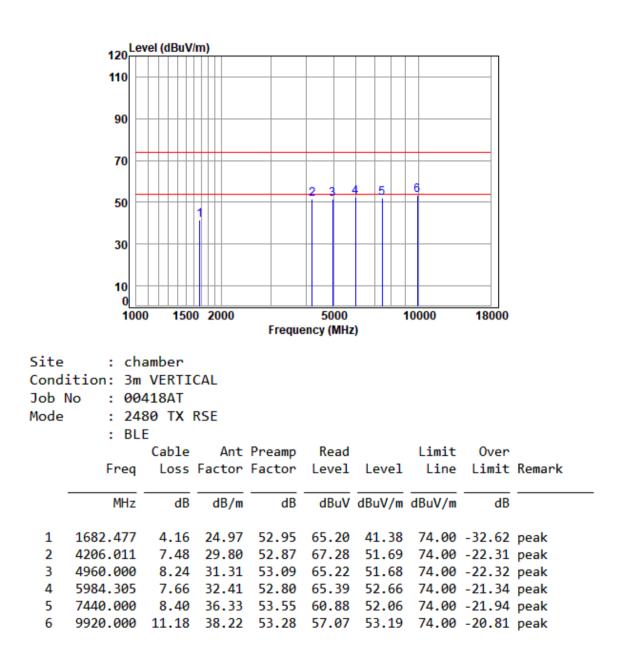
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# 8 Test Setup Photo

Refer to Setup Photo for FYCR2210000418AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for FYCR2210000418AT



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# **10** Appendix

- 1. Duty Cycle
- 1.1 Ant1

#### 1.1.1 Test Result

	Ant1								
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
	SISO	2402	0.420	0.625	67.20	1.73	0.04		
1M		2440	0.419	0.625	67.04	1.74	0.03		
		2480	0.419	0.625	67.04	1.74	0.00		



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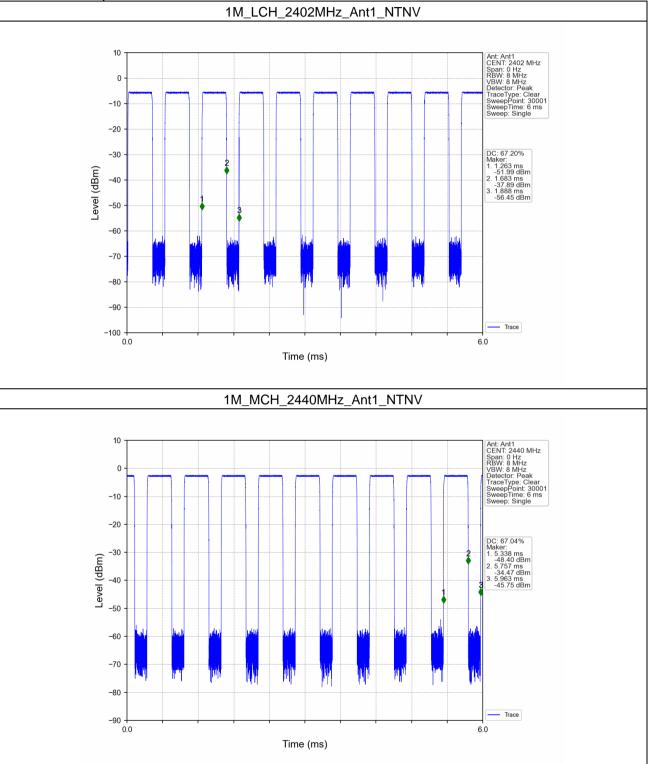
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#### 1.1.2 Test Graph





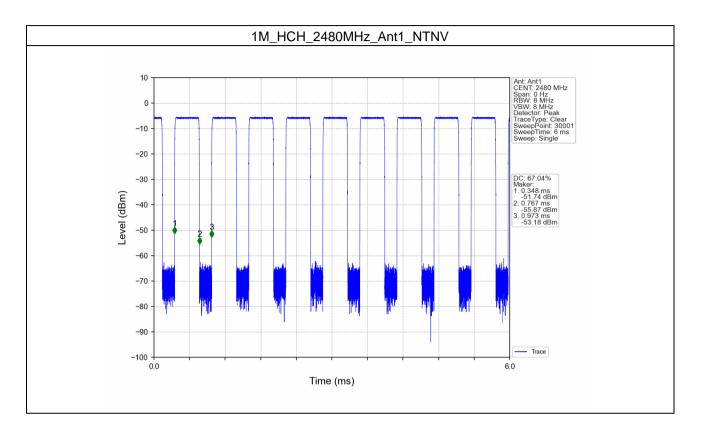
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### 2. Bandwidth

#### 2.1 OBW

#### 2.1.1 Test Result

Mode	ТΧ	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Vordict
	Туре			Result	Verdict
1M		2402	1	1.019	Pass
	SISO	2440	1	1.021	Pass
		2480	1	1.019	Pass



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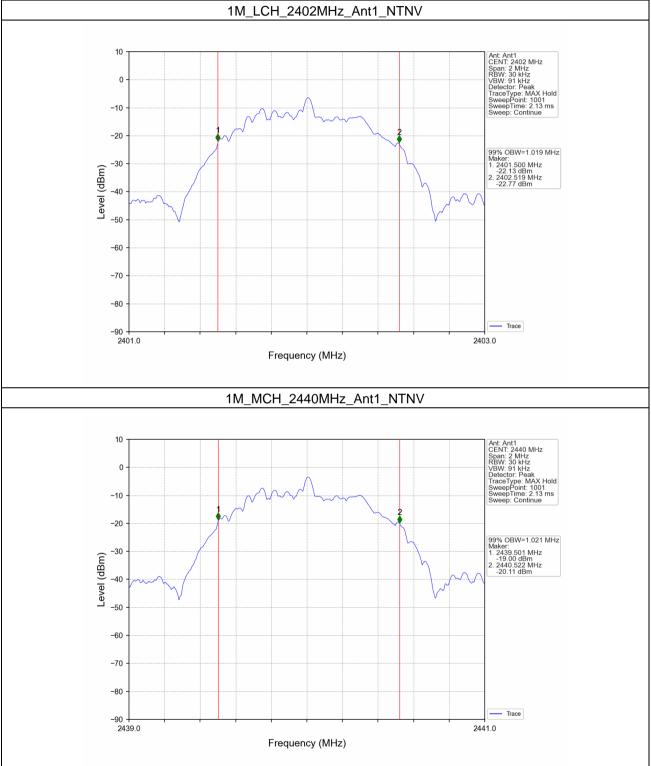
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#### 2.1.2 Test Graph





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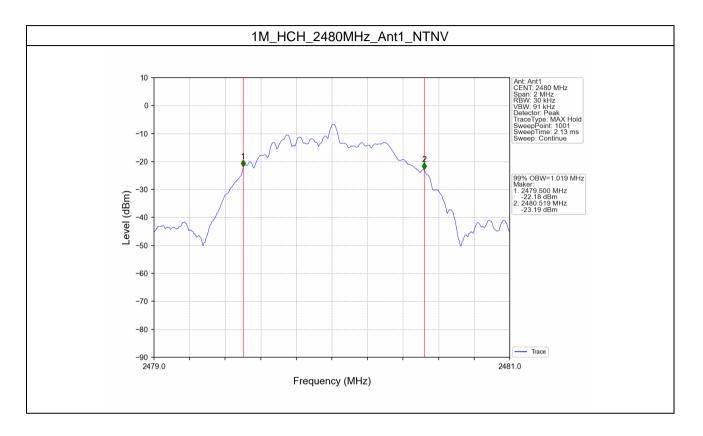
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#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	6dB Bandv	Vordict	
				Result	Limit	Verdict
1M	SISO	2402	1	0.692	>=0.5	Pass
		2440	1	0.691	>=0.5	Pass
		2480	1	0.695	>=0.5	Pass



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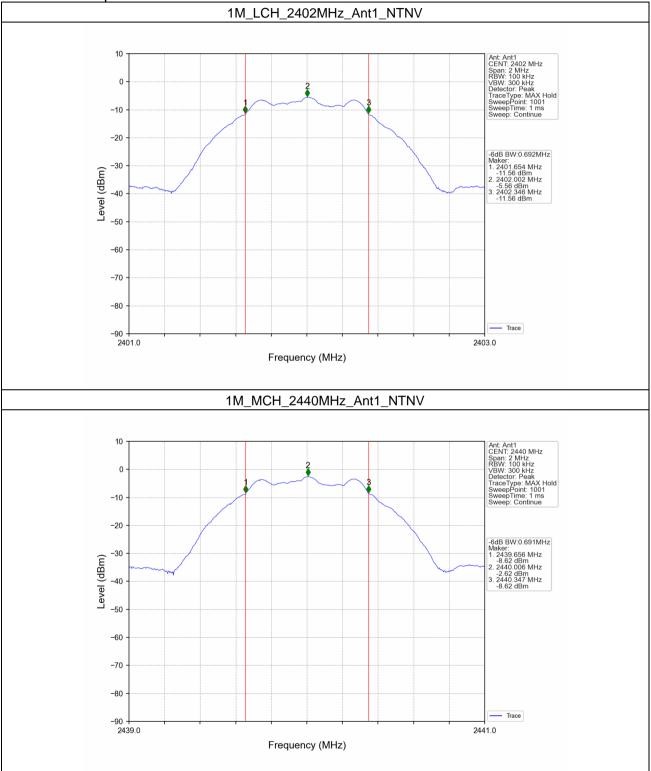
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#### 2.2.2 Test Graph





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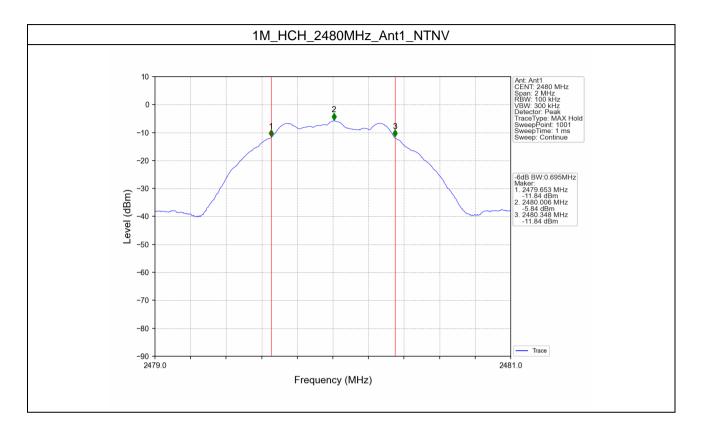
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### 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Modo	ТХ	Frequency	Maximum Peak Conduc	Vardiat	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2402	-5.41	<=30	Pass
1M	SISO	2440	-2.47	<=30	Pass
		2480	-5.58	<=30	Pass

### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	ТΧ	Frequency	Maximum PS	Vordiat	
	Туре	(MHz)	ANT1	Limit	Verdict
1M	SISO	2402	-20.57	<=8	Pass
		2440	-17.61	<=8	Pass
		2480	-20.75	<=8	Pass



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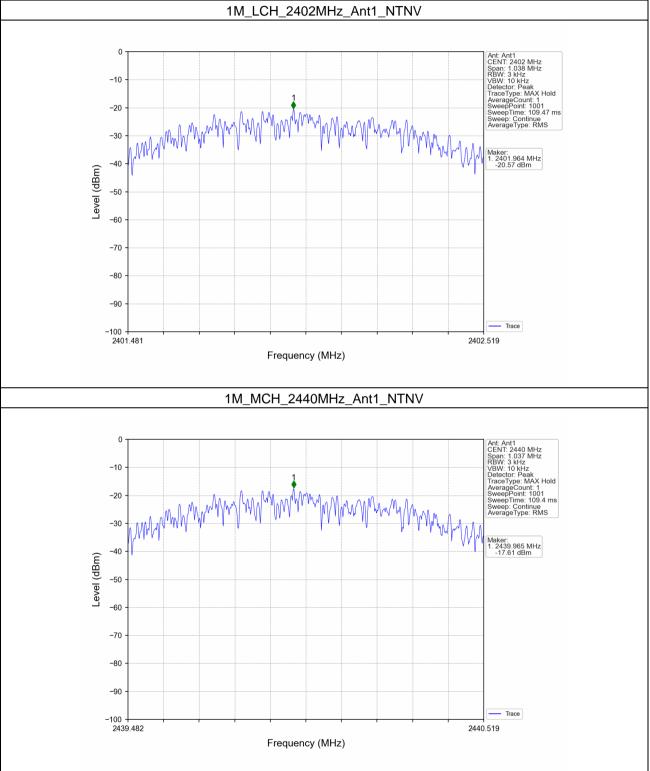
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#### 4.1.2 Test Graph





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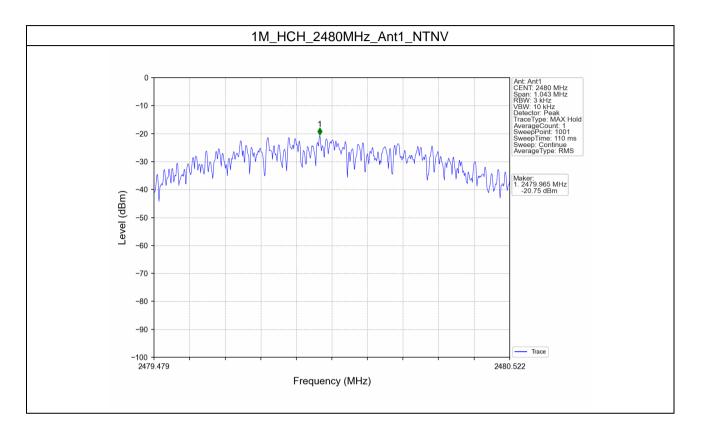
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### 5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

#### 5.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	-5.55
1M	SISO	2440	1	-2.63
		2480	1	-5.85



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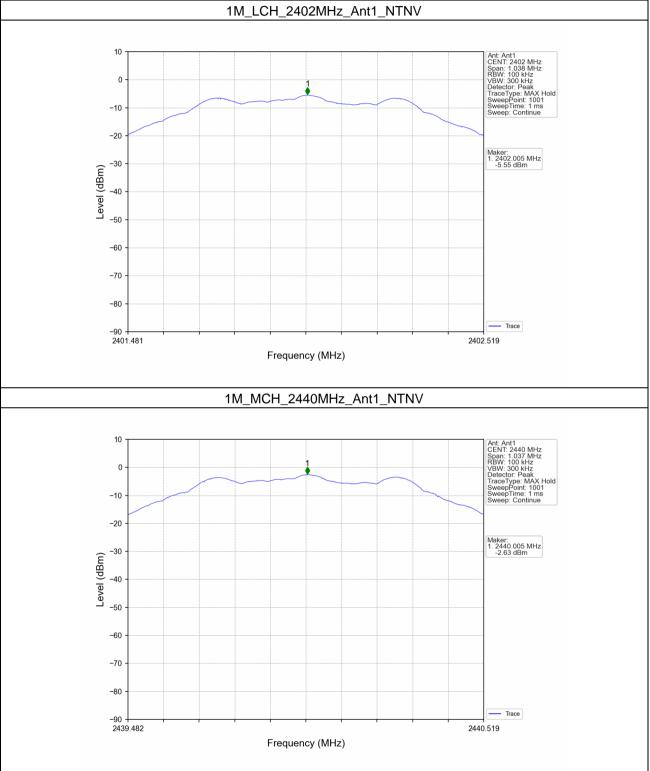
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#### 5.1.2 Test Graph





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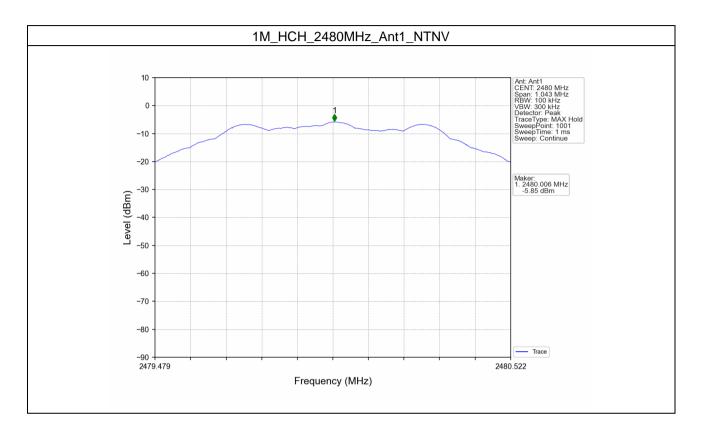
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#### 5.2 CSE

#### 5.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-2.63	-22.63	Pass
		2440	1	-2.63	-22.63	Pass
		2480	1	-2.63	-22.63	Pass



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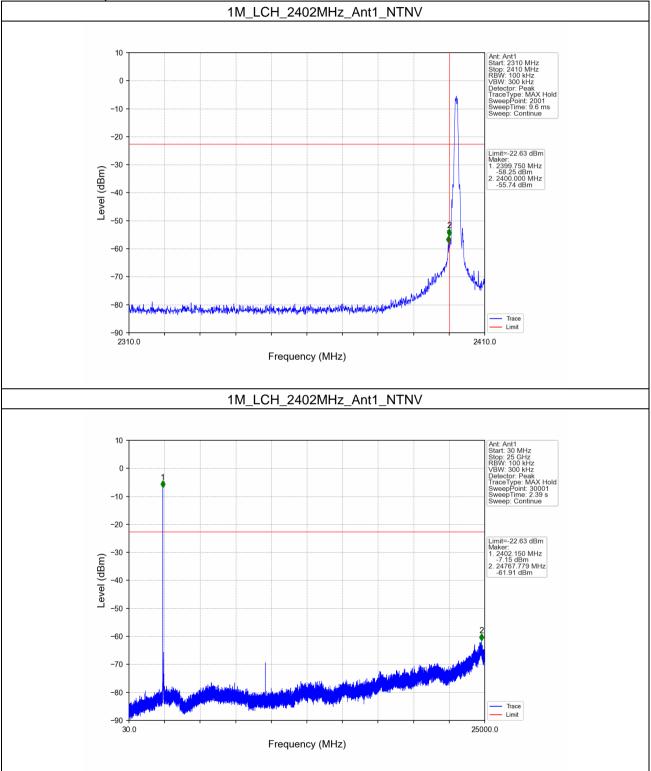


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#### 5.2.2 Test Graph





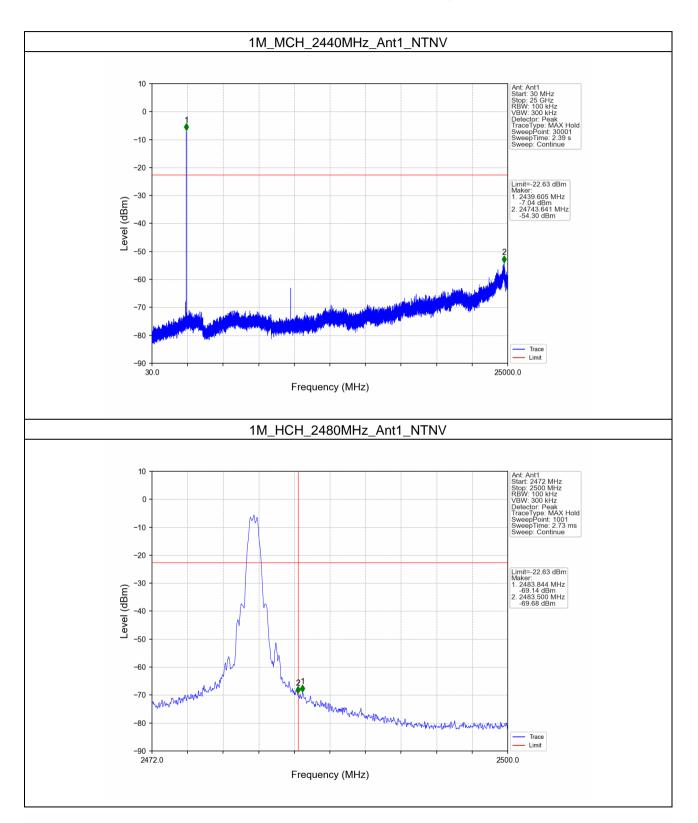
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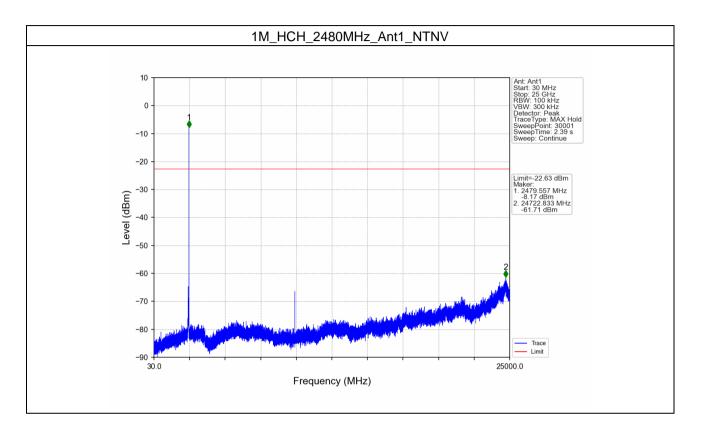


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