

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100359803

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TEST REPORT

Application No.: SZCR2311003598AT

Applicant: NOTHING TECHNOLOGY LIMITED

Address of Applicant: 80 Cheapside, London, England EC2V 6EE, London United Kingdom

Manufacturer: NOTHING TECHNOLOGY LIMITED

80 Cheapside, London, England EC2V 6EE, London United Kingdom Address of Manufacturer:

Equipment Under Test (EUT):

EUT Name: Wireless Earphone

Model No.: B164

Trade Mark: cmf by NOTHING FCC ID: 2AZEQ-B164

47 CFR Part 15, Subpart C 15.247 Standard(s):

Date of Receipt: 2023-11-09

2023-11-10 to 2023-11-25 **Date of Test:**

2023-12-04 Date of Issue:

Test Result: Pass*

Ceny. Ku Keny Xu

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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		2023-12-04		Original			

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary 2

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						
Item	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

4.1 Details of E.U.T.

Power supply:	DC 3.85V/220mAh lithium ion rechargeable battery which can be charged from USB-C port.
Cable(s):	N/A
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 Dual mode
Modulation Type:	GFSK
Data Rate:	1Mbps
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-0.97dBi
Cable Loss (for RF conducted test):	0.9dB

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

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)

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:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 **Abnormalities from Standard Conditions**

None



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5 **Equipment List**

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Power Spectrum Densit	у				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Conducted Spurious Emissions							
Equipment	Equipment Manufacturer Model No. Inventory No. Cal Date Cal Due D						
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		



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Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06	

Radiated Spurious Emis	Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09		



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Pre-Amplifier	Compliance Directions Systems	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19
	Inc.				

General used equipment					
Equipment Manufacturer Model No. Inventory No. Cal Da					Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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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

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 -0.97dBi

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results 7

7.1 Conducted Peak Output Power

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

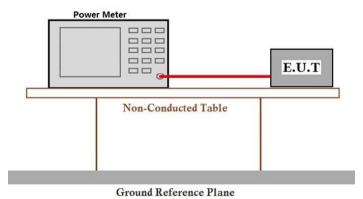
Operating Environment:

Temperature: 24.1 °C Humidity: 45.9 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram





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7.1.4 Measurement Procedure and Data

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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

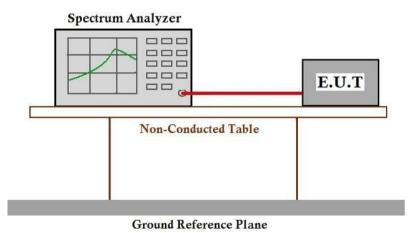
Operating Environment:

Temperature: 24.1 °C Humidity: 45.9 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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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

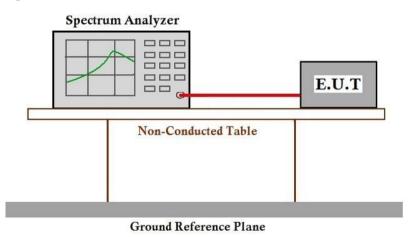
Operating Environment:

Temperature: 24.1 °C Humidity: 45.9 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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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 §15.209(a) (see §15.205(c).

7.4.1 E.U.T. Operation

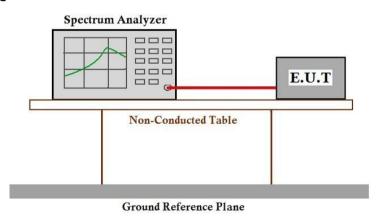
Operating Environment:

24.1 °C Atmospheric Pressure: 1000 mbar Temperature: Humidity: 45.9 % RH

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



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 §15.209(a) (see §15.205(c).

7.5.1 E.U.T. Operation

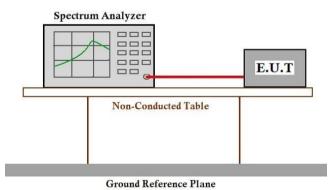
Operating Environment:

Temperature: Humidity: 45.9 % RH 24.1 °C Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

	1012 100t mede 2000 phon				
Pre-scan / Final test	Mode Code	Description			
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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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:

F (8411-)	Fig. 1.1 - to a south for it a south for it a	Management Patanagement
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 Environment:

Temperature: 25.3 °C Humidity: 60.2 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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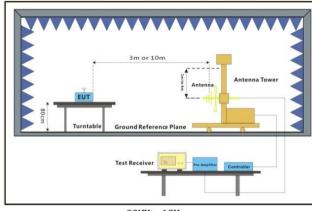


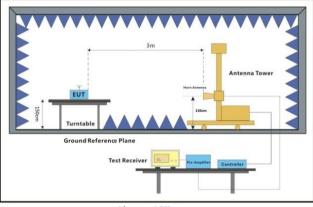
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7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

Remark 2: 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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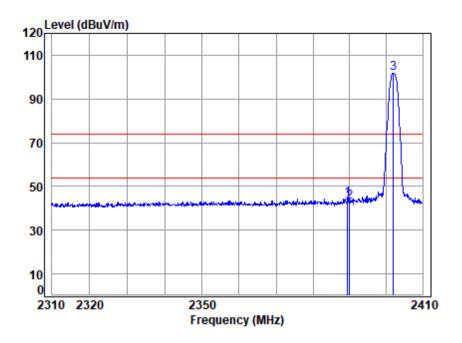
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03598AT/03602AT Mode : 2402 Band edge

Note : BLE 1M

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.457	5.07	29.10	37.44	47.75	44.48	74.00	-29.52	peak
2	2390.000	5.08	29.10	37.44	46.25	42.99	74.00	-31.01	peak
3 q	2402.000	5.09	29.09	37.41	104.87	101.64	74.00	27.64	peak



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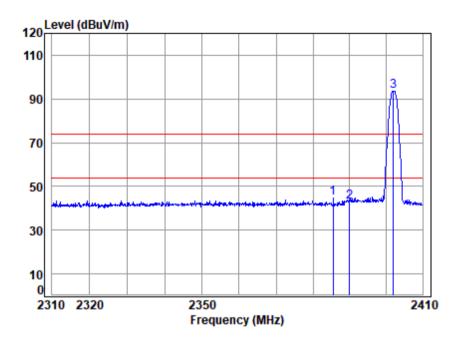
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03598AT/03602AT Mode : 2402 Band edge

Note : BLE 1M

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHZ	ав	aB/m	dB	aBuv	dBuV/m	dBuV/m	ав		
1	2385.511	5 07	29 10	37 /15	17 90	44 62	7/ 00	_20_38	neak	
									•	
2	2390.000	5.08	29.10	37.44	45.96	42.70	74.00	-31.30	peak	
3 q	2402.000	5.09	29.09	37.41	96.85	93.62	74.00	19.62	peak	



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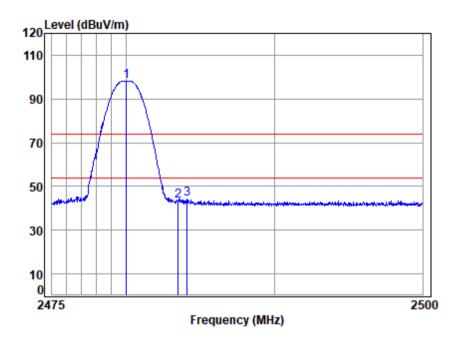
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 03598AT/03602AT Mode : 2480 Band edge

Note : BLE 1M

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	28.90	37.22	101.32	98.16	74.00	24.16	peak
2	2483.500	5.16	28.90	37.22	46.30	43.14	74.00	-30.86	peak
3	2484.096	5.16	28.90	37.22	47.52	44.36	74.00	-29.64	peak



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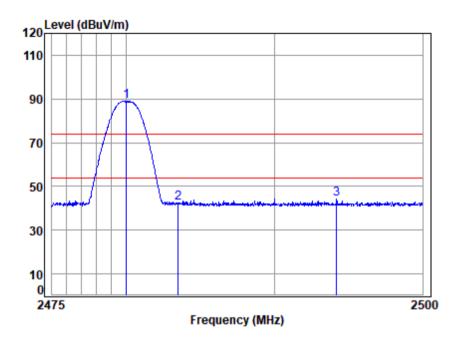
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03598AT/03602AT Mode : 2480 Band edge

Note : BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	28.90	37.22	92.01	88.85	74.00	14.85	peak
2	2483.500	5.16	28.90	37.22	45.41	42.25	74.00	-31.75	peak
3	2494.177	5.17	28.90	37.19	47.27	44.15	74.00	-29.85	peak



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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

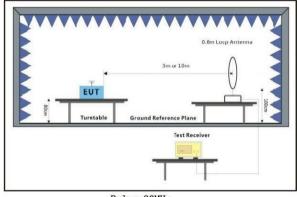
Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram







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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 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- a. 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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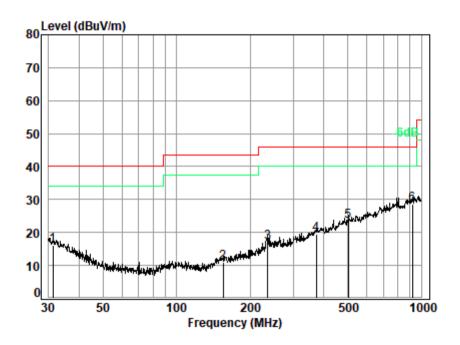
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Test Mode: 02; Polarity: Horizontal



: chamber

Condition: 3m HORIZONTAL

Job No. : 03598AT

Test Mode: 02

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.289	20.60	0.65	27.80	22.55	16.00	40.00	-24.00	QP
2	155.364	13.54	1.49	27.41	23.18	10.80	43.50	-32.70	QP
3	235.816	17.11	1.89	27.12	25.27	17.15	46.00	-28.85	QP
4	373.311	20.60	2.45	27.22	23.61	19.44	46.00	-26.56	QP
5	504.706	23.06	2.91	27.80	25.13	23.30	46.00	-22.70	QP
6 q	919.287	28.17	4.14	27.04	23.39	28.66	46.00	-17.34	QP



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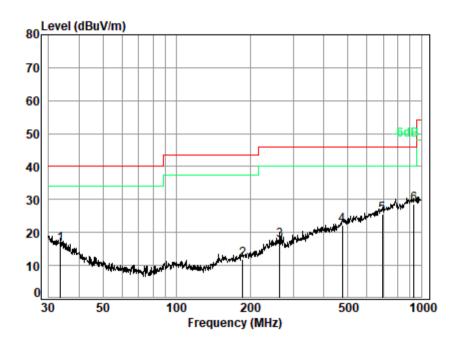
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Test Mode: 02; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL : 03598AT Job No.

Test Mode: 02

	Freq	Ant Factor				Level			Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.562	19.61	0.68	27.79	23.86	16.36	40.00	-23.64	QP
2	186.441	14.30	1.66	27.30	23.35	12.01	43.50	-31.49	QP
3	263.819	17.10	2.01	27.02	25.64	17.73	46.00	-28.27	QP
4	475.499	22.52	2.81	27.67	24.47	22.13	46.00	-23.87	QΡ
5	694.417	25.81	3.49	27.94	24.24	25.60	46.00	-20.40	QР
6 a	935 546	28 15	4 18	26 96	23 19	28 56	46 99	-17 44	OP



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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

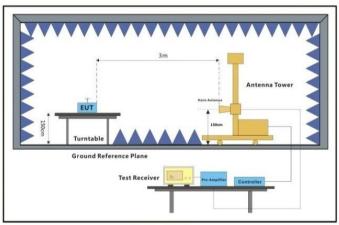
Operating Environment:

Temperature: 22.6 °C Humidity: 59.5 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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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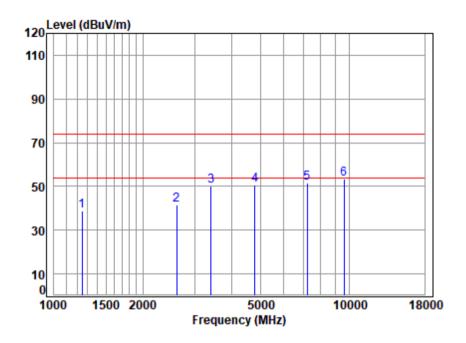
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03598AT/03602AT Mode : 2402 TX RSE

: BLE 1M

			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		1245.663	3.66	25.04	38.35	48.47	38.82	74.00	-35.18	peak
2		2603.126	5.27	30.29	36.95	42.71	41.32	74.00	-32.68	Peak
3		3405.929	6.11	32.33	36.12	47.72	50.04	74.00	-23.96	Peak
4		4804.000	7.31	34.32	35.52	44.47	50.58	74.00	-23.42	peak
5		7206.000	9.18	35.70	35.79	42.28	51.37	74.00	-22.63	peak
6	q	9608.000	12.36	37.42	37.46	40.88	53.20	74.00	-20.80	peak



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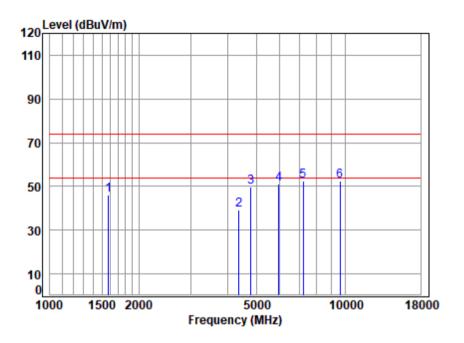
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03598AT/03602AT Mode : 2402 TX RSE

: BLE 1M

			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		1578.822	4.17	26.88	38.40	53.40	46.05	74.00	-27.95	peak
2		4367.058	7.04	34.54	35.82	33.56	39.32	74.00	-34.68	peak
3		4804.000	7.31	34.32	35.52	43.79	49.90	74.00	-24.10	peak
4		5949.811	8.14	34.70	34.92	43.32	51.24	74.00	-22.76	peak
5		7206.000	9.18	35.70	35.79	43.37	52.46	74.00	-21.54	peak
6	q	9608.000	12.36	37.42	37.46	40.18	52.50	74.00	-21.50	peak



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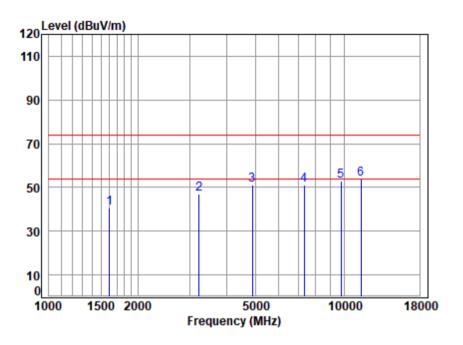
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 03598AT/03602AT Mode : 2440 TX RSE

: BLE 1M

		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	1606.441	4.21	26.74	38.40	48.23	40.78	74.00	-33.22	peak
2	3223.928	5.88	32.52	36.13	44.84	47.11	74.00	-26.89	peak
3	4880.000	7.36	34.62	35.47	44.76	51.27	74.00	-22.73	peak
4	7320.000	9.32	35.70	35.90	42.11	51.23	74.00	-22.77	peak
5	9760.000	12.47	37.38	37.43	40.41	52.83	74.00	-21.17	peak
6	q11400.910	12.98	37.70	37.72	40.66	53.62	74.00	-20.38	Peak



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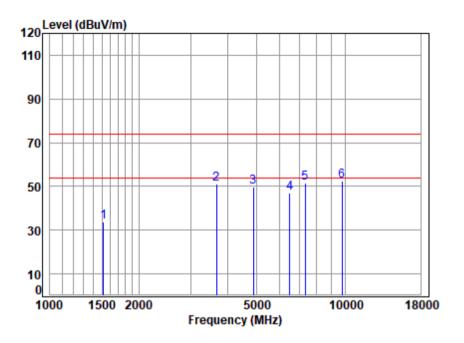
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03598AT/03602AT

Mode : 2440 TX RSE

: BLE 1M

			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		1516.210	4.08	26.86	38.39	41.29	33.84	74.00	-40.16	peak
2		3661.149	6.41	32.77	36.11	48.15	51.22	74.00	-22.78	peak
3		4880.000	7.36	34.62	35.47	43.18	49.69	74.00	-24.31	peak
4		6488.754	8.55	35.58	35.24	38.09	46.98	74.00	-27.02	peak
5		7320.000	9.32	35.70	35.90	42.37	51.49	74.00	-22.51	peak
6	q	9760.000	12.47	37.38	37.43	40.20	52.62	74.00	-21.38	peak



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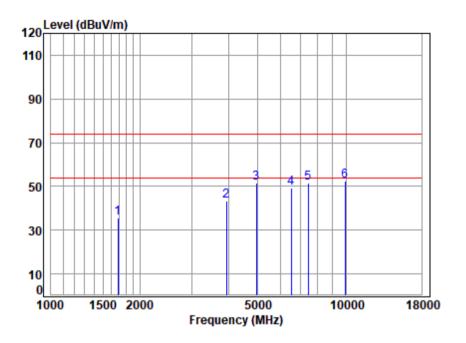
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 03598AT/03602AT Mode : 2480 TX RSE

: BLE 1M

	. 522 211									
			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		1687.347	4.31	26.23	38.41	43.36	35.49	74.00	-38.51	peak
2		3935.493	6.71	33.59	36.10	39.29	43.49	74.00	-30.51	peak
3		4960.000	7.41	34.56	35.42	45.04	51.59	74.00	-22.41	peak
4		6526.373	8.58	35.55	35.27	40.64	49.50	74.00	-24.50	peak
5		7440.000	9.46	35.96	36.02	42.18	51.58	74.00	-22.42	peak
6	q	9920.000	12.58	37.30	37.39	40.04	52.53	74.00	-21.47	peak



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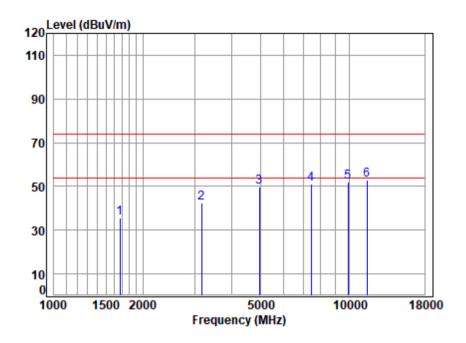
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Test Mode: 02; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 03598AT/03602AT

Mode : 2480 TX RSE

: BLE 1M

		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	1672.779	4.30	26.25	38.41	43.40	35.54	74.00	-38.46	peak
2	3159.355	5.80	32.57	36.13	40.03	42.27	74.00	-31.73	Peak
3	4960.000	7.41	34.56	35.42	43.04	49.59	74.00	-24.41	peak
4	7440.000	9.46	35.96	36.02	41.48	50.88	74.00	-23.12	peak
5	9920.000	12.58	37.30	37.39	39.42	51.91	74.00	-22.09	peak
6	q11500.200	13.00	37.80	37.69	40.01	53.12	74.00	-20.88	Peak



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2311003598AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2311003598AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
	SISO	2402	0.398	0.625	63.68	1.96	0.03		
1M		2440	0.398	0.625	63.68	1.96	0.03		
		2480	0.398	0.625	63.68	1.96	0.03		



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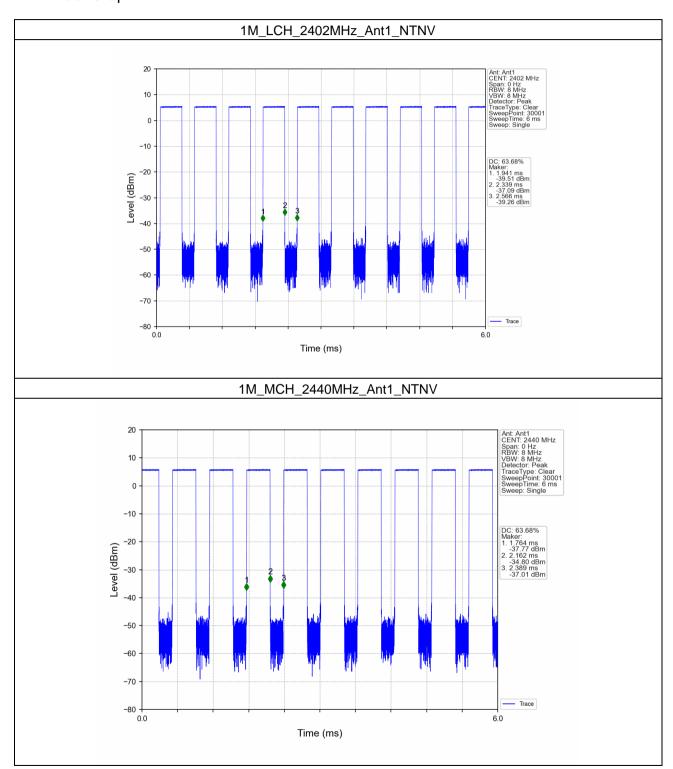
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1.1.2 Test Graph





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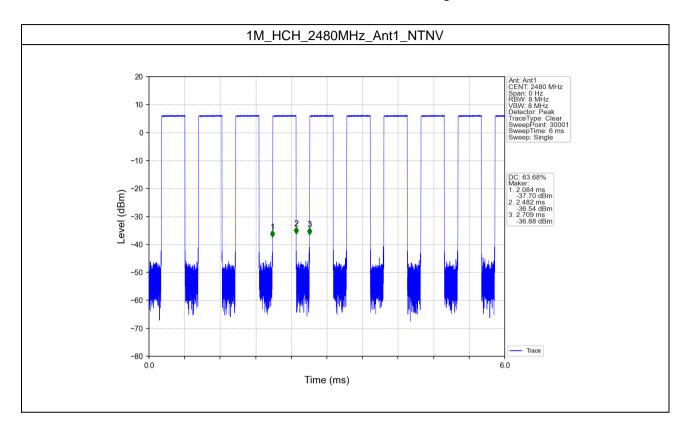
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2. Bandwidth

2.1 **OBW**

2.1.1 Test Result

Mode	TX	Frequency (MHz)	ANT	99% Occupied E	Vardiat	
Mode	Type			Result	Limit	Verdict
	SISO	2402	1	1.016	/	Pass
1M		2440	1	1.014	/	Pass
		2480	1	1.015	/	Pass



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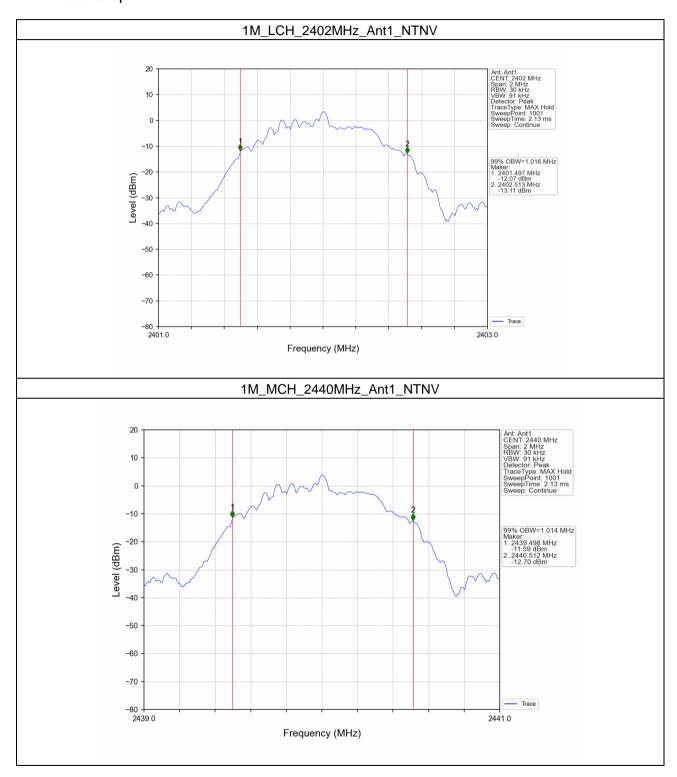
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2.1.2 Test Graph





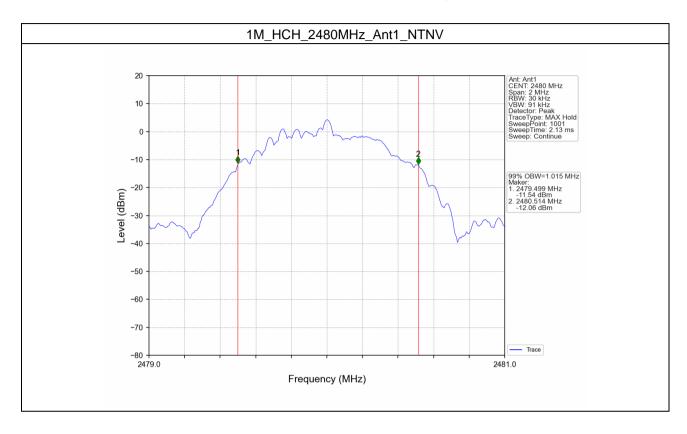
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Vardiet	
				Result	Limit	Verdict	
1M	SISO		2402	1	0.647	>=0.5	Pass
		2440	1	0.645	>=0.5	Pass	
		2480	2480	1	0.654	>=0.5	Pass



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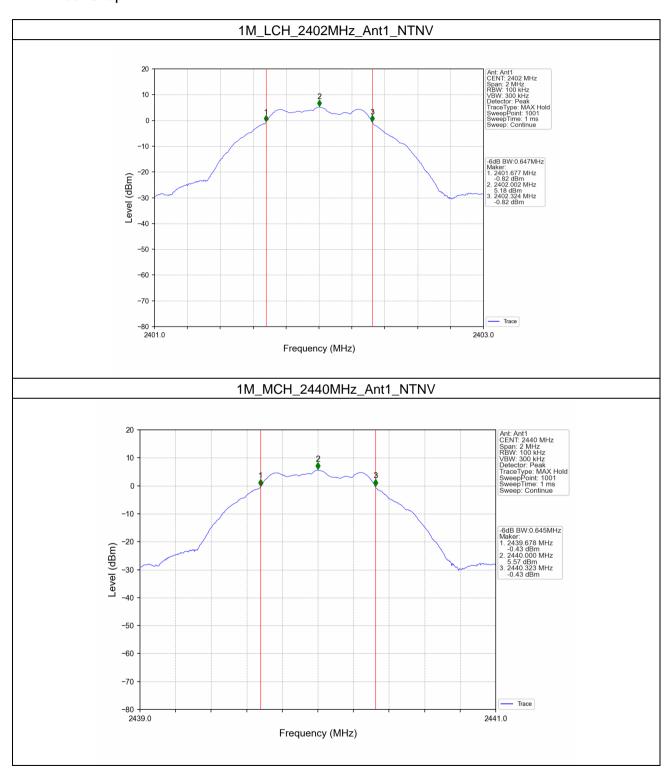
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2.2.2 Test Graph





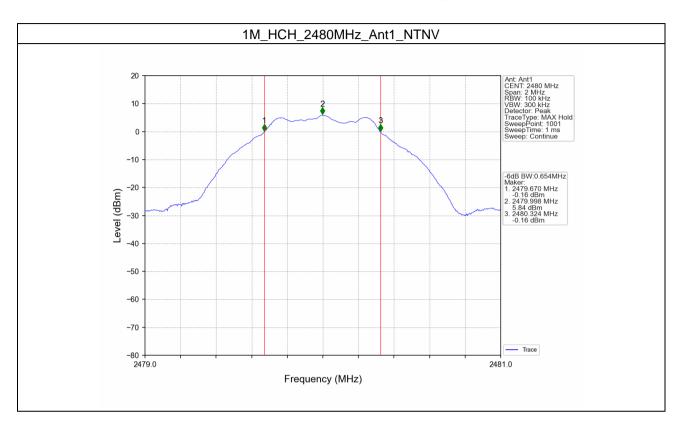
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	Verdict	
iviode	Type	(MHz)	ANT1	Limit	verdict
1M	SISO	2402	5.44	<=30	Pass
		2440	5.85	<=30	Pass
		2480	6.13	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency	Maximum PS	Vardiat	
iviode		(MHz)	ANT1	Limit	Verdict
1M	SISO	2402	-9.75	<=8	Pass
		2440	-9.33	<=8	Pass
		2480	2480	-8.97	<=8



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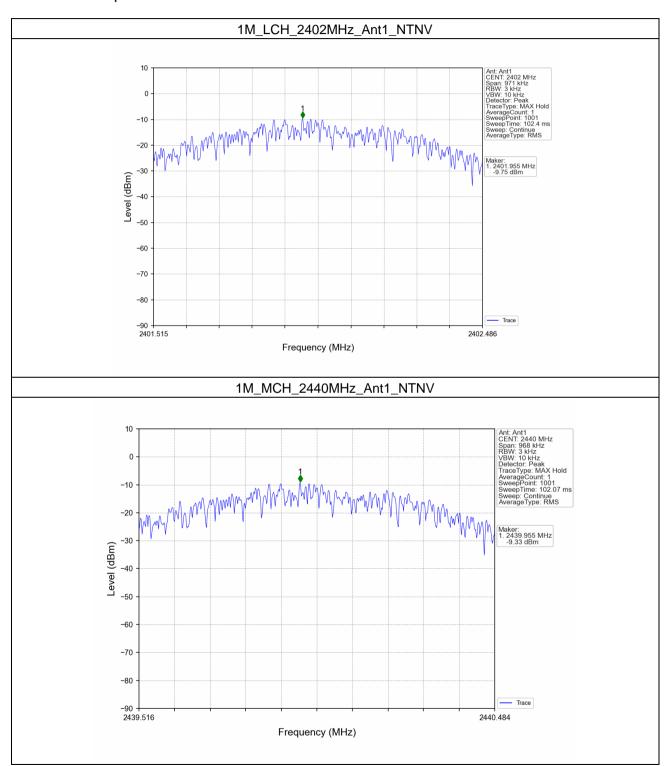


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4.1.2 Test Graph





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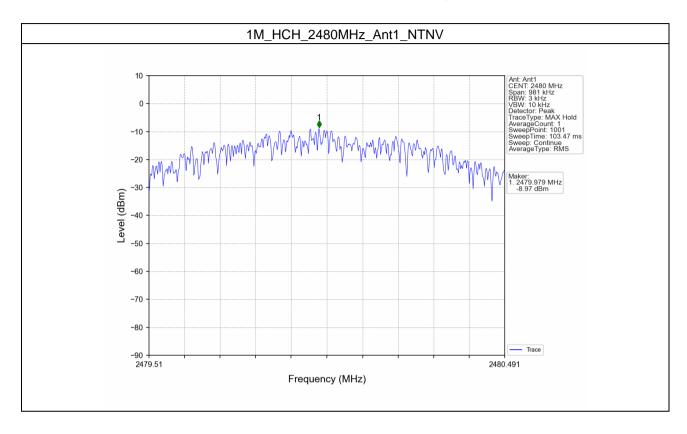
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	5.16
		2440	1	5.57
		2480	1	5.80



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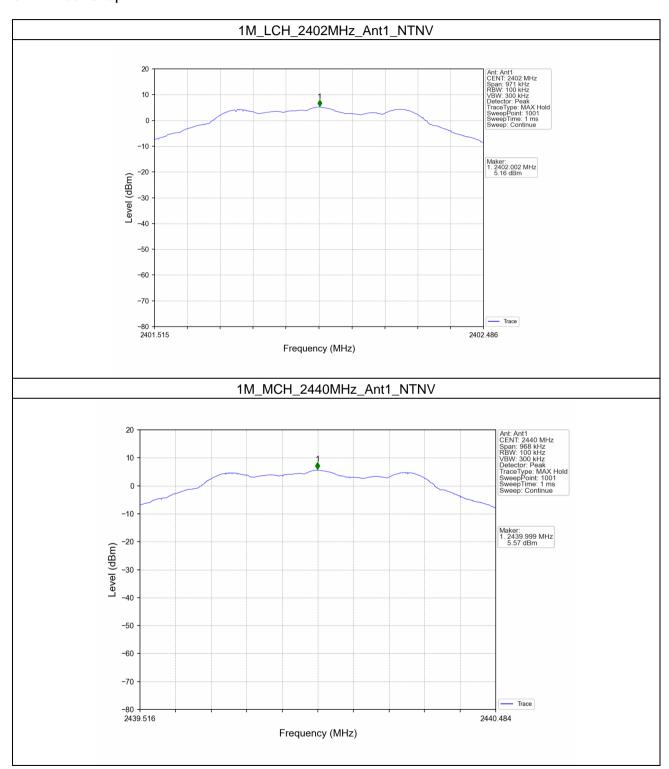
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5.1.2 Test Graph





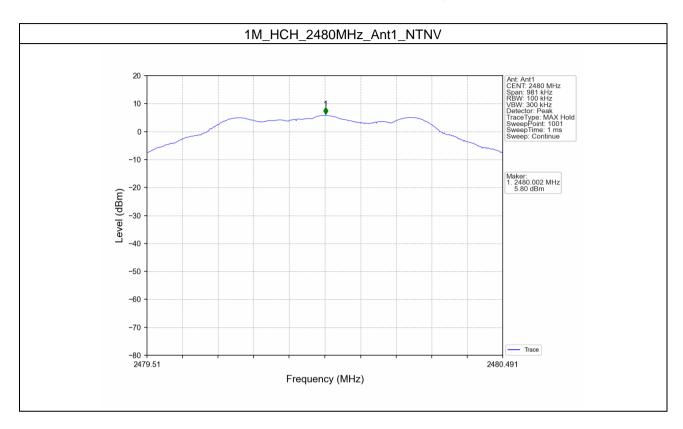
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.80	-14.20	Pass
		2440	1	5.80	-14.20	Pass
		2480	1	5.80	-14.20	Pass



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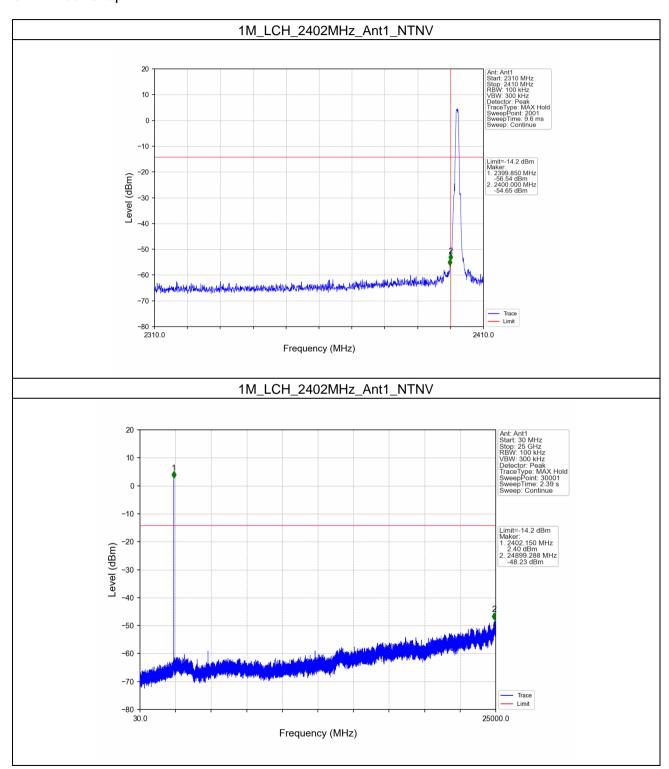
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5.2.2 Test Graph





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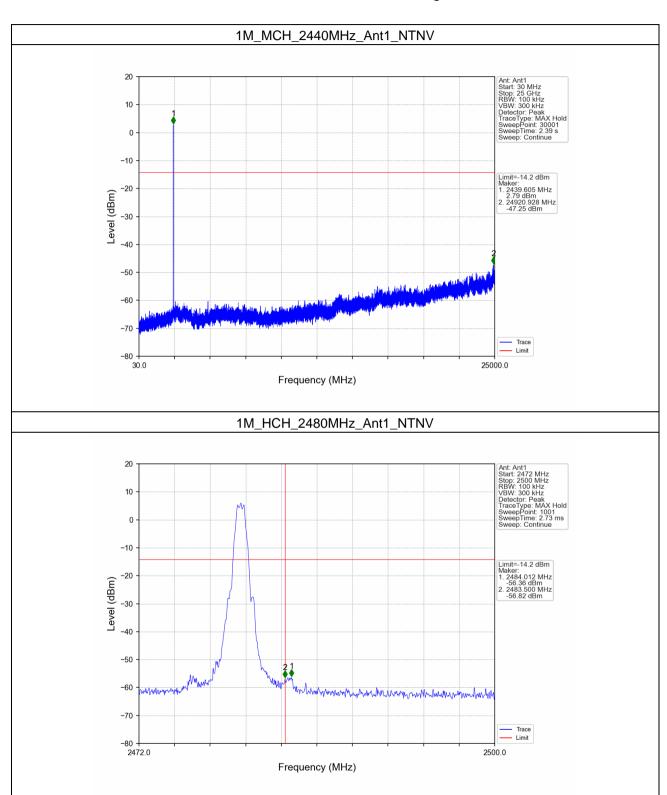
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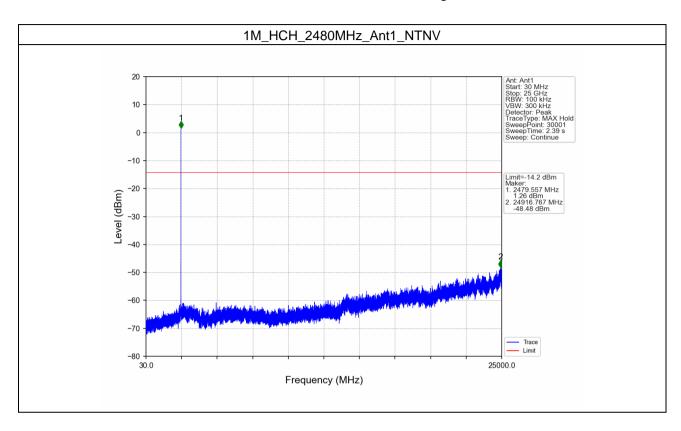
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