

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395905

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# TEST REPORT

Application No.: SZCR2410003959WM

**Applicant:** Guangdong OPPO Mobile Telecommunications Corp., Ltd. **Address of Applicant:** NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City,

Guangdong, China

Manufacturer: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Manufacturer: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City,

Guangdong, China

**Equipment Under Test (EUT):** 

EUT Description: Mobile Phone Model No.: CPH2699
Trade Mark: OPPO

**FCC ID:** R9C-OP24263

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

**Date of Receipt:** 2024-10-25

**Date of Test:** 2024-11-26 to 2024-12-10

**Date of Issue:** 2024-12-18

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-12-18		Original			

Authorized for issue by:		
	Sherlock Fans	
	Sherlock Fang/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 Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	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	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Peak Output Power	Subpart C 15.247	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		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		



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## **General Information**

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

EUT Description:	Mobile Phone			
Model No.:	CPH2699			
Trade Mark:	ОРРО			
Hardware Version:	11			
Software Version:	ColorOS 15.0			
Power Supply:	DC 3.92V from internal rechargeable battery which can be charged by AC/DC adapter			
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.			
Bluetooth version:	Bluetooth V5.1			
Modulation Type:	GFSK			
Number of Channel:	40			
Datas Time*	⊠Provided by client			
Rates Type*:	1M PHY 2M PHY			
Antenna Type:	IFA Antenna			
	-1dBi(Ant8)			
Antenna Gain:	Note:			
, internia Gain.	The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	2000MHz ~ 3000MHz (1.1dB)			
Remark:	•			

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 4.2 Environment Parameter

Environment Parameter 1020 mbar Selected Values During Tes					
Relative Humidity	36.2-50.8 % RH Ambie	ent			
Value	Temperature(°C) Voltage(V)				
NTNV	20.2~24.6	3.92			
Note:					
NV:Normal Voltage					
NT:Normal Temperature					



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4.3 Description of Support Units

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

## 4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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)
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

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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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### 4.5 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.

## 4.6 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.

### 4.7 Deviation from Standards

None

### 4.8 Abnormalities from Standard Conditions

None



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#### 5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G3 0	SZ-WRG-M-050	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

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	2024-08-14	2025-08-13		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05		



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Radiated Spurious Emis	ssions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP0101805 0	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP1804004 8	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26		
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23		
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17		



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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 a IFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best-case gain of the antenna is -1dBi(Ant8).\*

### \*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

#### Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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# **Radio Spectrum Matter Test Results**

## 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 **Test Requirement** Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amicaian/MII-	Conducted limit(dBµV)						
Frequency of emission(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					
*Decreases with the logarithm of the frequency.							
Detector: Peak for pre-scan (9kHz	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz						

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Atmospheric Pressure: 1020 mbar Humidity: 44.5 % RH

### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.					
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.					



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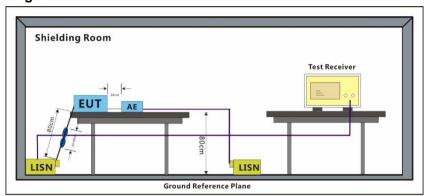
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### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50uH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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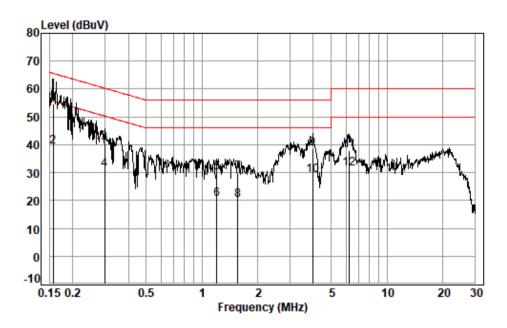


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Test Mode: 05: Line: Live line



: Shielding Room

Condition: Line Job No. : 03959WM

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1573	0.06	10.18	44.55	54.79	65.60	-10.81	QP
2 *	0.1573	0.06	10.18	29.14	39.38	55.60	-16.22	Average
3	0.2987	0.07	9.85	30.84	40.76	60.28	-19.52	QP
4	0.2987	0.07	9.85	21.19	31.11	50.28	-19.17	Average
5	1.2034	0.09	9.58	20.47	30.14	56.00	-25.86	QP
6	1.2034	0.09	9.58	10.83	20.50	46.00	-25.50	Average
7	1.5601	0.10	9.58	20.32	30.00	56.00	-26.00	QP
8	1.5601	0.10	9.58	10.48	20.16	46.00	-25.84	Average
9	3.9639	0.12	9.66	28.92	38.70	56.00	-17.30	QP
10	3.9639	0.12	9.66	19.15	28.93	46.00	-17.07	Average
11	6.2520	0.15	9.67	28.14	37.96	60.00	-22.04	QP
12	6.2520	0.15	9.67	21.44	31.26	50.00	-18.74	Average



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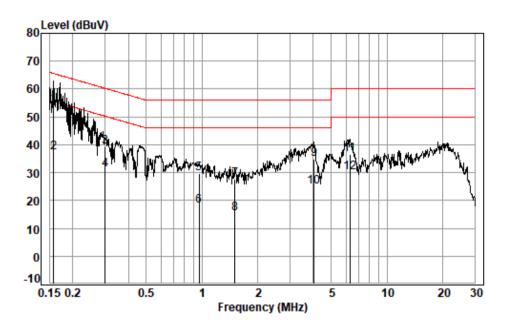


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Test Mode: 05: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03959WM

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1582	0.06	10.14	44.13	54.33	65.56	-11.23	QP
2 *	0.1582	0.06	10.14	27.17	37.37	55.56	-18.19	Average
3	0.3003	0.07	9.77	29.45	39.29	60.24	-20.95	QP
4	0.3003	0.07	9.77	21.38	31.22	50.24	-19.02	Average
5	0.9633	0.09	9.55	20.14	29.78	56.00	-26.22	QP
6	0.9633	0.09	9.55	8.52	18.16	46.00	-27.84	Average
7	1.5113	0.10	9.55	18.02	27.67	56.00	-28.33	QP
8	1.5113	0.10	9.55	5.61	15.26	46.00	-30.74	Average
9	4.0489	0.12	9.55	25.33	35.00	56.00	-21.00	QP
10	4.0489	0.12	9.55	15.17	24.84	46.00	-21.16	Average
11	6.3186	0.15	9.62	26.71	36.48	60.00	-23.52	QP
12	6.3186	0.15	9.62	20.23	30.00	50.00	-20.00	Average



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### 7.2 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.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

Tiziz Tool Mode Becomption							
Pre-scan / Final test	Mode Code	Description					
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.					
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.					



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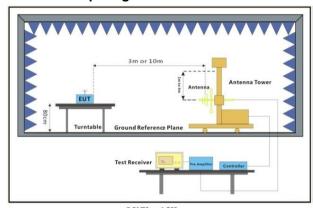


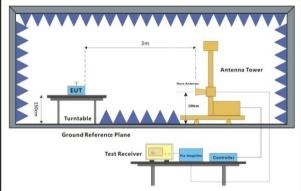
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### 7.2.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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### 7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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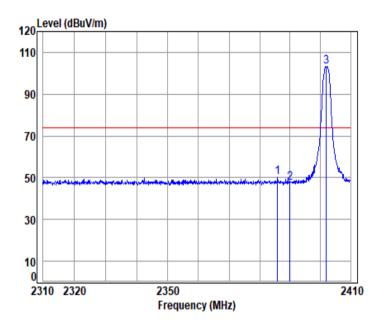


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BLE\_1M\_TX\_CH\_00\_Horizontal-Peak



Condition: 3m HORIZONTAL

: 03959WM

1 2

Mode : 2402 Band edge

: BLE 1M

		±111							
		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	
23	385.916	6.82	27.44	31.54	47.46	50.18	74.00	-23.82	peak
23	390.000	6.82	27.46	31.54	44.58	47.32	74.00	-26.68	peak
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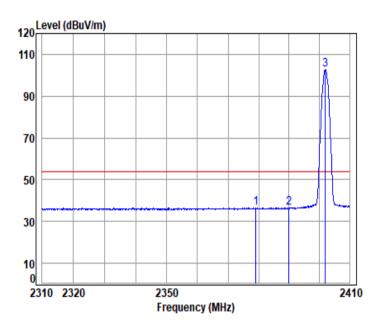


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BLE\_1M\_TX\_CH\_00\_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03959WM

: 2402 Band edge Mode

: 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		2379.150	6.82	27.42	31.54	34.02	36.72	54.00	-17.28	Average	
2		2390.000	6.82	27.46	31.54	33.54	36.28	54.00	-17.72	Average	
3	pp	2402,000	6.84	27.50	31.54	99.78	102.58	54.00	48.58	Average	



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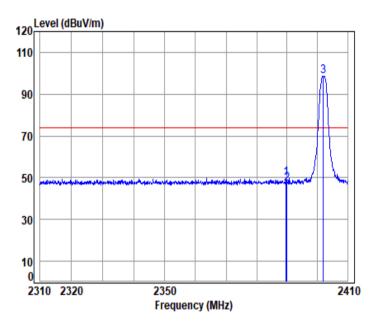


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BLE\_1M\_TX\_CH\_00\_Vertical-Peak



Condition: 3m VERTICAL : 03959WM Job No

: 2402 Band edge Mode

: BLE 1M

			±111								
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.659	6.82	27.46	31.54	47.05	49.79	74.00	-24.21	peak	
2		2390.000	6.82	27.46	31.54	44.19	46.93	74.00	-27.07	peak	
3	nn	2402 000	6 84	27 50	31 54	95 87	98 67	74 00	24 67	neak	



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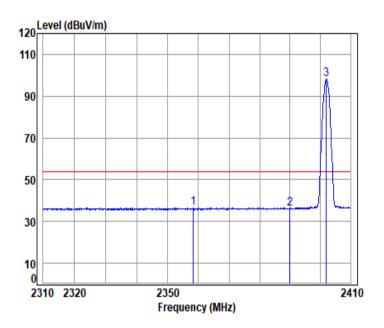


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BLE\_1M\_TX\_CH\_00\_Vertical-AVG



Condition: 3m VERTICAL Job No : 03959WM

: 2402 Band edge Mode

: BLE 1M

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 2358.271 6.81 27.33 31.54 34.11 36.71 54.00 -17.29 Average 2390,000 6.82 27.46 31.54 33.33 36.07 54.00 -17.93 Average 3 pp 2402.000 6.84 27.50 31.54 95.16 97.96 54.00 43.96 Average



1

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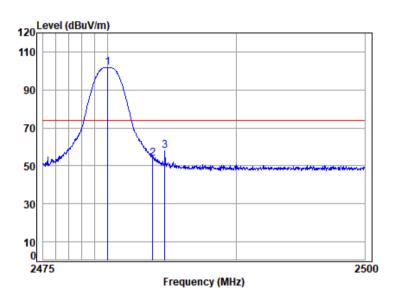


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BLE\_1M\_TX\_CH\_39\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 2480 Band edge

: BLE 1M

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2480.000								•	
	2483.500								•	



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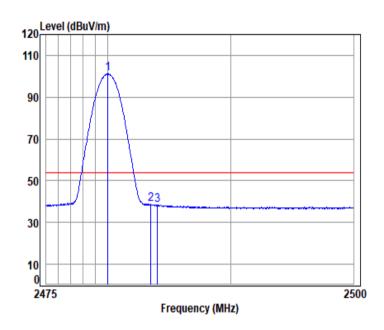


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BLE\_1M\_TX\_CH\_39\_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 2480 Band edge

: BLE 1M

		±111								
		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		
pp	2480.000	7.37	27.78	31.55	97.49	101.09	54.00	47.09	Average	
	2483.500	7.40	27.80	31.55	34.95	38.60	54.00	-15.40	Average	
	2/18/1 (921	7 40	27 80	31 55	3/1 73	38 38	5/ 00	-15 62	Λυρρασο	



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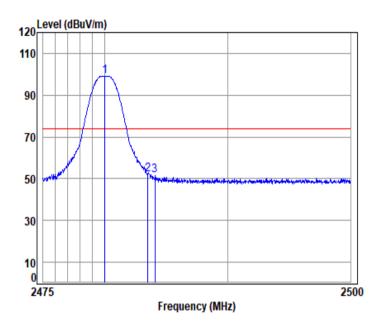


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BLE\_1M\_TX\_CH\_39\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 2480 Band edge

: BLE 1M

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 7.37 27.78 31.55 95.49 99.09 74.00 25.09 peak 1 pp 2480.000 2483.500 7.40 27.80 31.55 48.48 52.13 74.00 -21.87 peak 2484.071 7.40 27.80 31.55 47.71 51.36 74.00 -22.64 peak



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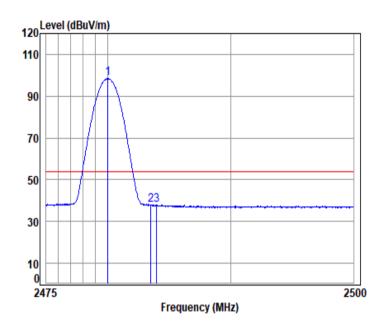


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BLE\_1M\_TX\_CH\_39\_Vertical-AVG



Condition: 3m VERTICAL Job No : 03959WM

Mode : 2480 Band edge

: BLE 1M

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 2480.000 7.37 27.78 31.55 94.76 98.36 54.00 44.36 Average 2483.500 7.40 27.80 31.55 34.03 37.68 54.00 -16.32 Average 2483.946 7.40 27.80 31.55 34.22 37.87 54.00 -16.13 Average



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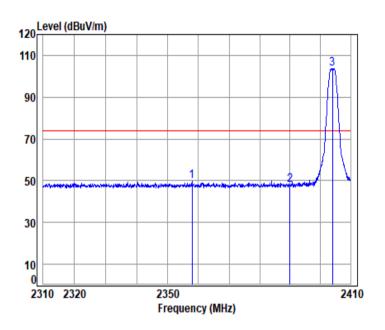


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BLE\_2M\_TX\_CH\_01\_Horizontal-Peak



Condition: 3m HORIZONTAL

: 03959WM

1 2

Mode : 2404 Band edge

: BLE 2M

	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		
2357.871	6.81	27.33	31.54	47.33	49.93	74.00	-24.07	peak	
2390.000								•	
pp 2404.000								•	



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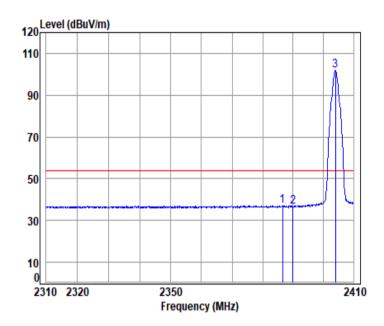


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## BLE\_2M\_TX\_CH\_01\_Horizontal-AVG



Condition: 3m HORIZONTAL

: 03959WM

: 2404 Band edge Mode

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.623	6.82	27.45	31.54	34.43	37.16	54.00	-16.84	Average
2	2390.000	6.82	27.46	31.54	33.92	36.66	54.00	-17.34	Average
3 рр	2404.000	6.86	27.51	31.54	98.83	101.66	54.00	47.66	Average



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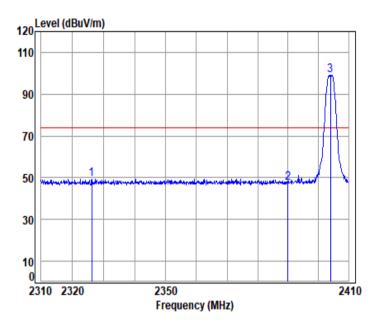


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BLE\_2M\_TX\_CH\_01\_Vertical-Peak



Condition: 3m VERTICAL : 03959WM

Mode : 2404 Band edge

· RIF 2M

			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		2326.209	6.79	27.25	31.53	46.90	49.41	74.00	-24.59	peak	
2		2390.000	6.82	27.46	31.54	44.80	47.54	74.00	-26.46	peak	
3	nn	2404 000	6 86	27 51	31 54	96 20	99 03	74 00	25 03	neak	



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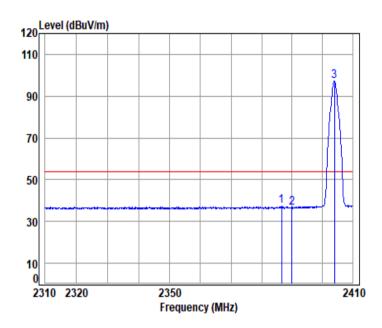


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BLE\_2M\_TX\_CH\_01\_Vertical-AVG



Condition: 3m VERTICAL Job No : 03959WM

: 2404 Band edge Mode

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2386.623 2390.000 2404.000	6.82	27.46	31.54	33.96	36.70	54.00	-17.30	Average



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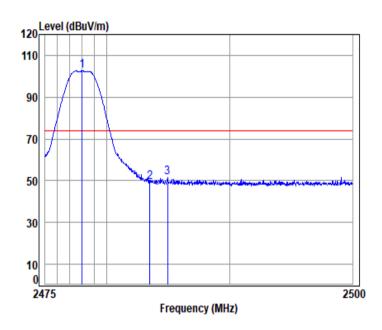


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BLE\_2M\_TX\_CH\_38\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 2478 Band edge

: BLE 2M

		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		
L	pp 2478.000	7.36	27.77	31.55	98.95	102.53	74.00	28.53	peak	
)	2483.500	7.40	27.80	31.55	45.75	49.40	74.00	-24.60	peak	
2	2484 020	7 /11	27 21	31 55	47 QE	51 62	7/ 00	22 38	nook	



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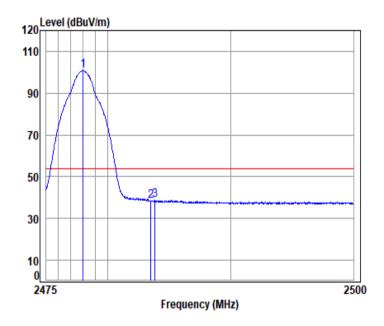


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## BLE\_2M\_TX\_CH\_38\_Horizontal-AVG



Condition: 3m HORIZONTAL

: 03959WM

1 2 3

Mode : 2478 Band edge

: BLE 2M

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
Lβ	p 2478.000	7.36	27.77	31.55	97.14	100.72	54.00	46.72	Average	
)	2483.500	7.40	27.80	31.55	34.83	38.48	54.00	-15.52	Average	
3	2483.821	7.40	27.80	31.55	34.96	38.61	54.00	-15.39	Average	



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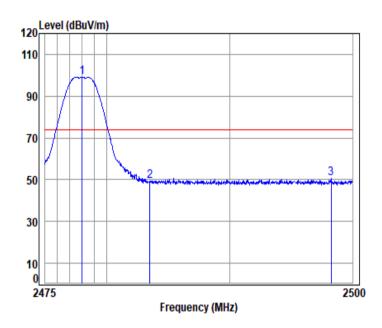


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BLE\_2M\_TX\_CH\_38\_Vertical-Peak



Condition: 3m VERTICAL : 03959WM Job No

Mode : 2478 Band edge

: BLE 2M

			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	pp	2478.000	7.36	27.77	31.55	95.50	99.08	74.00	25.08	peak	
2		2483.500	7.40	27.80	31.55	45.56	49.21	74.00	-24.79	peak	
3		2/198 2/12	7 50	27 89	31 55	46 85	50 69	74 00	-23 31	neak	



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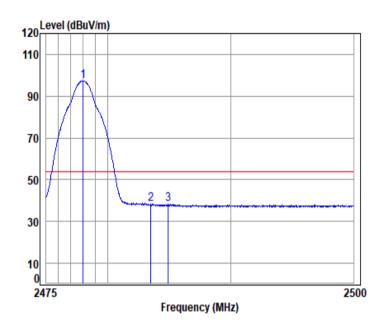


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BLE\_2M\_TX\_CH\_38\_Vertical-AVG



Condition: 3m VERTICAL Job No : 03959WM

Mode : 2478 Band edge

: BLE 2M

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
op 2478.000 2483.500								_	
2484.895								_	



1 2 3

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## 7.3 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

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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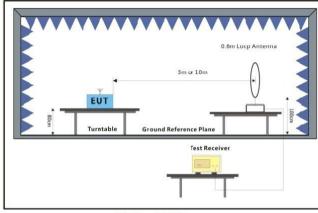
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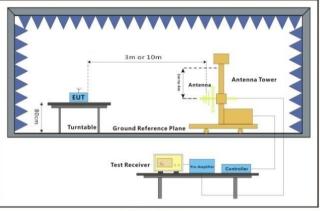


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### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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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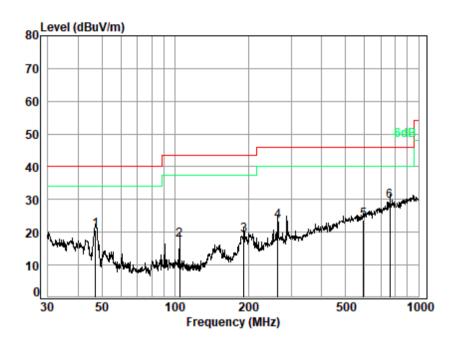


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Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 05

		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	47.160	13.59	0.84	27.74	33.90	20.59	40.00	-19.41	QP
2	104.170	12.22	1.25	27.57	31.68	17.58	43.50	-25.92	QP
3	191.745	14.26	1.73	27.20	30.52	19.31	43.50	-24.19	QP
4	263.819	17.11	2.06	26.90	31.07	23.34	46.00	-22.66	QP
5	595.133	24.47	3.23	27.95	24.00	23.75	46.00	-22.25	QP
6 q	763.376	26.52	3.75	27.57	26.84	29.54	46.00	-16.46	OP



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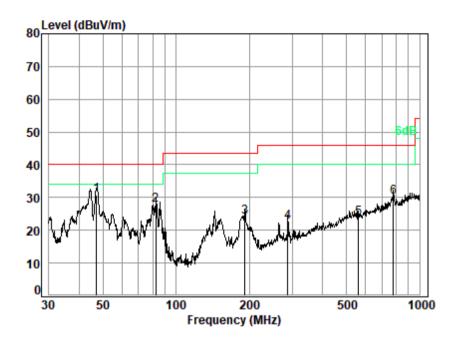


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Test Mode: 05; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03959WM

Test Mode: 05

		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 q	47.160	13.59	0.84	27.74	44.14	30.83	40.00	-9.17	QP	
2	82.648	10.69	1.11	27.64	43.57	27.73	40.00	-12.27	QP	
3	191.745	14.26	1.73	27.20	35.24	24.03	43.50	-19.47	QP	
4	287.990	16.98	2.16	26.80	30.20	22.54	46.00	-23.46	QP	
5	560.693	23.44	3.12	27.81	25.09	23.84	46.00	-22.16	QP	
6	779.607	27.03	3.80	27.53	26.85	30.15	46.00	-15.85	OP	



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## 7.4 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

### 7.4.1 E.U.T. Operation

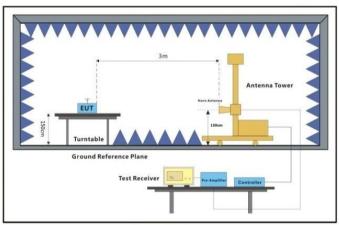
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.5 °C Humidity: 50.8 % RH

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

### 7.4.3 Test Setup Diagram



Above 1GHz



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#### 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 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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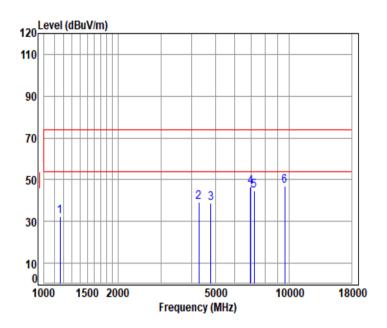


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BLE\_1M\_TX\_CH\_00\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 2402 TX RSE

: BLE 1M

		. DLL	T11							
			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		1162.182	7.16	25.38	54.70	54.65	32.49	74.00	-41.51	peak
2		4279.589	8.46	31.22	55.80	55.22	39.10	74.00	-34.90	peak
3		4804.000	8.90	31.92	56.16	54.34	39.00	74.00	-35.00	peak
4		6954.852	10.95	36.11	56.71	56.35	46.70	74.00	-27.30	peak
5		7206.000	11.10	36.60	56.54	53.52	44.68	74.00	-29.32	peak
6	nn	9608,000	12.38	38.78	54.45	50.11	46.82	74.00	-27.18	neak



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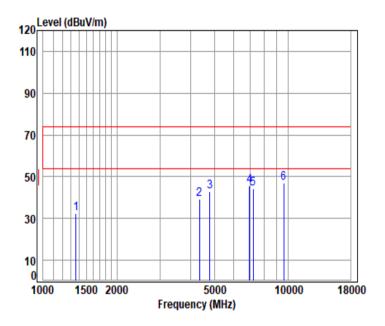


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BLE\_1M\_TX\_CH\_00\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 2402 TX RSE

: BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1362.430	7.19	25.08	54.70	54.91	32.48	74.00	-41.52	peak
2	4354.454	8.50	31.29	55.85	55.46	39.40	74.00	-34.60	peak
3	4804.000	8.90	31.92	56.16	58.28	42.94	74.00	-31.06	peak
4	6954.852	10.95	36.11	56.71	55.22	45.57	74.00	-28.43	peak
5	7206.000	11.10	36.60	56.54	53.05	44.21	74.00	-29.79	peak
6 рр	9608.000	12.38	38.78	54.45	50.25	46.96	74.00	-27.04	peak



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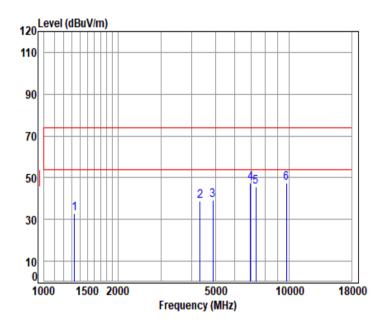


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BLE\_1M\_TX\_CH\_19\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 2440 TX RSE

: BLE 1M

			T11							
			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		1331.288	7.17	25.14	54.70	55.04	32.65	74.00	-41.35	peak
2		4329.354	8.48	31.30	55.83	54.84	38.79	74.00	-35.21	peak
3		4880.000	8.98	32.16	56.22	54.31	39.23	74.00	-34.77	peak
4		6954.852	10.95	36.11	56.71	56.88	47.23	74.00	-26.77	peak
5		7320.000	11.12	36.74	56.44	53.99	45.41	74.00	-28.59	peak
6	nn	9760.000	12.84	38,60	54.32	50.22	47.34	74.00	-26.66	neak



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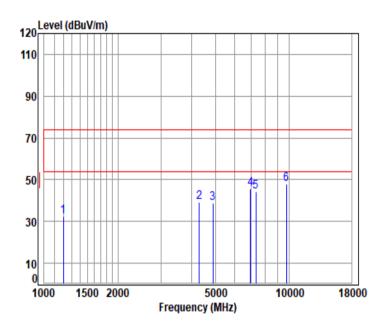


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BLE\_1M\_TX\_CH\_19\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 2440 TX RSE

BLF 1M

		. DLL	TIT								
			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		1196.264	7.19	25.31	54.70	54.77	32.57	74.00	-41.43	peak	
2		4304.400	8.45	31.30	55.81	55.16	39.10	74.00	-34.90	peak	
3		4880.000	8.98	32.16	56.22	53.97	38.89	74.00	-35.11	peak	
4		6954.852	10.95	36.11	56.71	55.38	45.73	74.00	-28.27	peak	
5		7320.000	11.12	36.74	56.44	52.70	44.12	74.00	-29.88	peak	
6	pp	9760.000	12.84	38.60	54.32	50.57	47.69	74.00	-26.31	peak	



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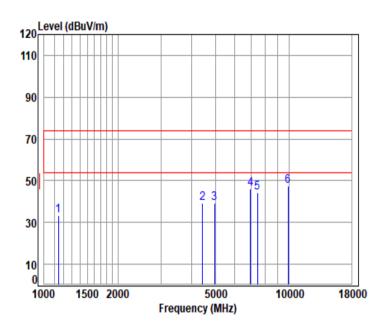


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BLE\_1M\_TX\_CH\_39\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 2480 TX RSE

: BLE 1M

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 1145.507 7.14 25.42 54.70 55.31 33.17 74.00 -40.83 peak 2 4443.453 8.55 31.37 55.91 55.30 39.31 74.00 -34.69 peak 3 4960.000 9.07 32.20 56.27 54.36 39.36 74.00 -34.64 peak 4 6954.852 10.95 36.11 56.71 55.73 46.08 74.00 -27.92 peak 7440.000 5 11.08 36.78 56.35 52.65 44.16 74.00 -29.84 peak 6 pp 9920.000 12.73 38.90 54.17 49.97 47.43 74.00 -26.57 peak



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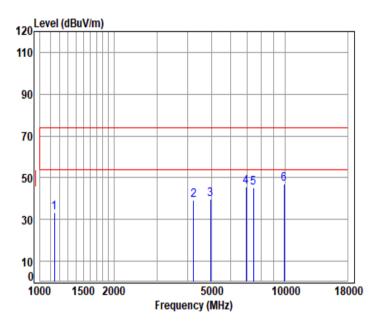


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BLE\_1M\_TX\_CH\_39\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 2480 TX RSE

: BLE 1M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1145.507	7.14	25.42	54.70	55.59	33.45	74.00	-40.55	peak
2		4230.396	8.49	30.98	55.76	55.44	39.15	74.00	-34.85	peak
3		4960.000	9.07	32.20	56.27	54.61	39.61	74.00	-34.39	peak
4		6934.778	10.95	36.13	56.71	55.29	45.66	74.00	-28.34	peak
5		7440.000	11.08	36.78	56.35	53.87	45.38	74.00	-28.62	peak
6	pp	9920.000	12.73	38.90	54.17	49.39	46.85	74.00	-27.15	peak



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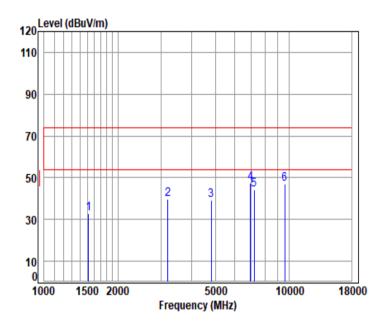


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### BLE\_2M\_TX\_CH\_01\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 2404 TX RSE

: BLE 2M

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB/m dBuV dBuV/m dBuV/m 7.20 24.94 54.70 55.62 33.06 74.00 -40.94 peak 1 1520.598 2 3196.094 7.70 29.20 55.12 58.08 39.86 74.00 -34.14 peak 3 4808.000 8.91 31.93 56.17 54.59 39.26 74.00 -34.74 peak 4 pp 6954.852 10.95 36.11 56.71 56.99 47.34 74.00 -26.66 peak 5 11.10 36.60 56.53 53.20 74.00 -29.63 peak 7212.000 44.37 12.40 38.77 54.45 50.26 46.98 74.00 -27.02 peak 9616.000



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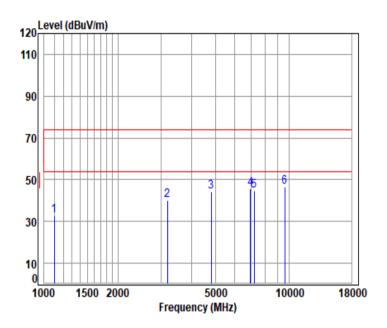


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BLE\_2M\_TX\_CH\_01\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 2404 TX RSE

: BLE 2M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1100.079	7.10	25.60	54.70	54.80	32.80	74.00	-41.20	peak
2		3186.869	7.70	29.20	55.11	58.53	40.32	74.00	-33.68	peak
3		4808.000	8.91	31.93	56.17	59.49	44.16	74.00	-29.84	peak
4		6954.852	10.95	36.11	56.71	55.37	45.72	74.00	-28.28	peak
5		7212.000	11.10	36.60	56.53	53.75	44.92	74.00	-29.08	peak
		9616.000								•



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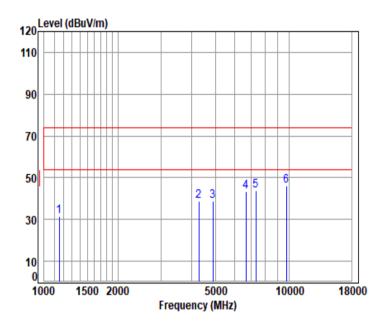


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## BLE\_2M\_TX\_CH\_19\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 2440 TX RSE

: BLE 2M

			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		1152.148	7.15	25.40	54.70	53.63	31.48	74.00	-42.52	peak
2		4279.589	8.46	31.22	55.80	54.83	38.71	74.00	-35.29	peak
3		4880.000	8.98	32.16	56.22	53.76	38.68	74.00	-35.32	peak
4		6659.763	10.84	35.48	56.77	53.81	43.36	74.00	-30.64	peak
5		7320.000	11.12	36.74	56.44	52.51	43.93	74.00	-30.07	peak
6	nn	9760 000	12 8/	38 60	5/1 32	19 11	46 26	7/ 00	-27 7/	noak



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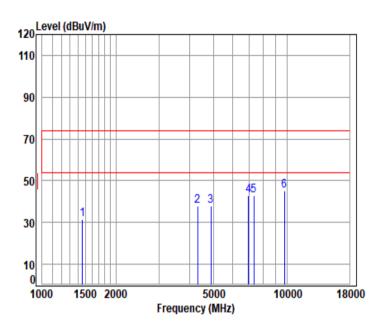


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BLE\_2M\_TX\_CH\_19\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 2440 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	7.22	25.06	54.70	54.03	31.61	74.00	-42.39	peak
2	4316.859	8.47	31.30	55.82	53.92	37.87	74.00	-36.13	peak
3	4880.000	8.98	32.16	56.22	53.06	37.98	74.00	-36.02	peak
4	6954.852	10.95	36.11	56.71	52.62	42.97	74.00	-31.03	peak
5	7320.000	11.12	36.74	56.44	51.45	42.87	74.00	-31.13	peak
6 p	p 9760.000	12.84	38.60	54.32	48.11	45.23	74.00	-28.77	peak



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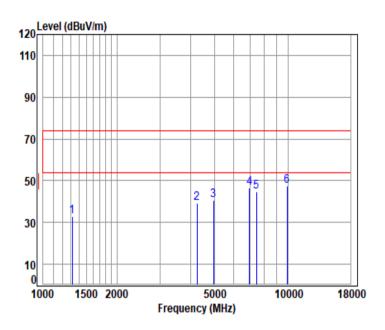


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## BLE\_2M\_TX\_CH\_38\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 2478 TX RSE

: BLE 2M

		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	1315.985	7.16	25.17	54.70	55.29	32.92	74.00	-41.08	peak
2	4254.921	8.48	31.12	55.78	55.36	39.18	74.00	-34.82	peak
3	4956.000	9.06	32.20	56.27	55.40	40.39	74.00	-33.61	peak
4	6954.852	10.95	36.11	56.71	56.29	46.64	74.00	-27.36	peak
5	7434.000	11.09	36.77	56.35	52.99	44.50	74.00	-29.50	peak
	nn 9912 000								



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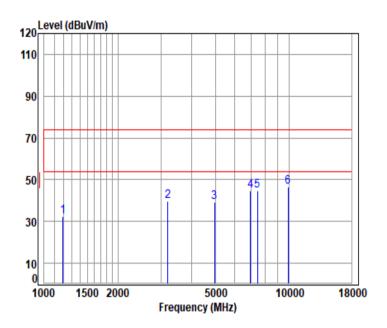


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BLE\_2M\_TX\_CH\_38\_Vertical



Condition: 3m VERTICAL : 03959WM Job No Mode : 2478 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	7.18	25.31	54.70	54.60	32.39	74.00	-41.61	peak
2	3196.094	7.70	29.20	55.12	57.99	39.77	74.00	-34.23	peak
3	4956.000	9.06	32.20	56.27	54.44	39.43	74.00	-34.57	peak
4	6954.852	10.95	36.11	56.71	54.56	44.91	74.00	-29.09	peak
5	7434.000	11.09	36.77	56.35	53.42	44.93	74.00	-29.07	peak
6 рр	9912.000	12.71	38.90	54.18	49.25	46.68	74.00	-27.32	peak



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## 7.5 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:

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 mod		

## 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 37.8 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 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.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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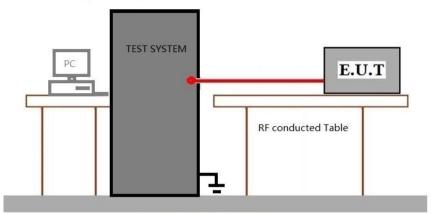


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#### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 7.5.4 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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#### 7.6 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

### 7.6.1 E.U.T. Operation

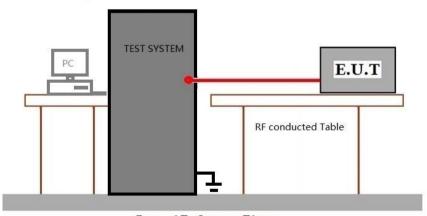
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.6 °C Humidity: 37.5 % RH

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.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.6.3 Test Setup Diagram



Ground Reference Plane

### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.7 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

### 7.7.1 E.U.T. Operation

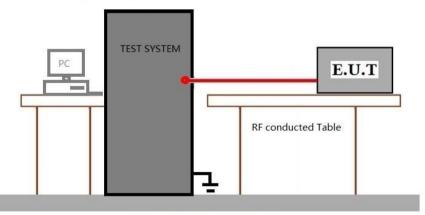
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.6 °C Humidity: 36.6 % RH

#### 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.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.7.3 Test Setup Diagram



Ground Reference Plane

### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 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).

### 7.8.1 E.U.T. Operation

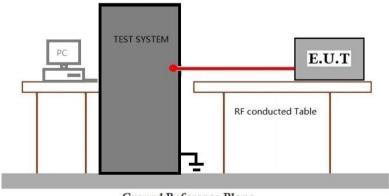
Operating Environment:

Temperature: 24.6 °C Humidity: 36.2 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

	1012 1001 11040 20001   piloti								
Pre-scan / Final test	Mode Code	Description							
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							

#### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.9 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).

### 7.9.1 E.U.T. Operation

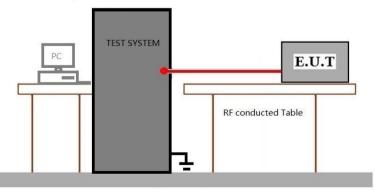
Operating Environment:

Temperature: 24.6 °C Humidity: 36.4 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

	. 1012 1 001 m 040 2 000 p 10 m								
Pre-scan / Final test	Mode Code	Description							
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							

#### 7.9.3 Test Setup Diagram



Ground Reference Plane

### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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#### **Test Setup Photo** 8

Please refer to SZCR2410003959 Appendix\_Setup Photo

#### **EUT Constructional Details (EUT Photos)** 9

Refer to Appendix - External and Internal Photos for SZCR2410003959WM



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# 10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant8

	Ant8									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		2402	0.414	0.625	66.24	1.79	0.00			
1M	SISO	2440	0.414	0.625	66.24	1.79	0.00			
		2480	0.414	0.625	66.24	1.79	0.10			
		2404	0.229	0.625	36.64	4.36	0.03			
2M	SISO	2440	0.208	0.625	33.28	4.78	0.00			
		2478	0.208	0.625	33.28	4.78	0.00			



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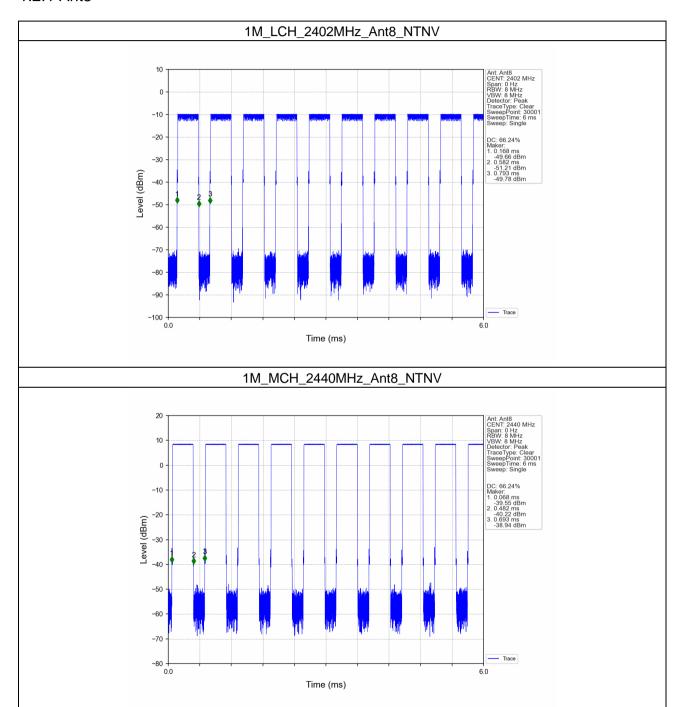
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## 1.2 Test Graph

#### 1.2.1 Ant8





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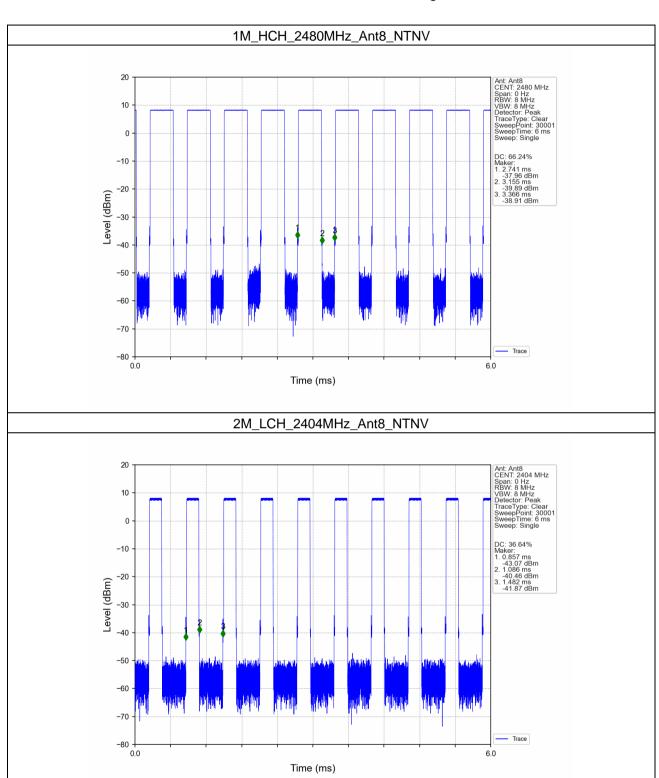
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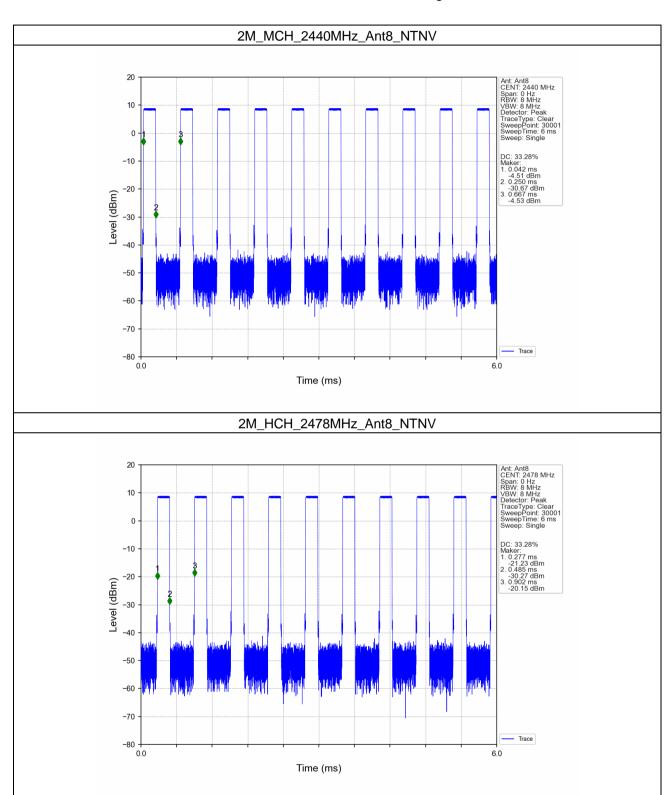
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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mada	TX	Frequency (MHz)	ANIT	99% Occupied E	\/oudiat	
Mode	Туре		ANT	Result	Limit	Verdict
		2402	8	1.037	/	Pass
1M	SISO	2440	8	1.036	/	Pass
		2480	8	1.033	/	Pass
	SISO	2404	8	2.063	/	Pass
2M		2440	8	2.063	/	Pass
		2478	8	2.063	/	Pass

#### 2.1.2 6dB BW

Mode	TX	Frequency	ANIT	6dB Bandv	\/a=d:a+	
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
		2402	2402 8 0.6		>=0.5	Pass
1M	SISO	2440	8	0.671	>=0.5	Pass
		2480	8	0.673	>=0.5	Pass
		2404	8 1.157 >=0.5	>=0.5	Pass	
2M	SISO	2440	8	1.159	>=0.5	Pass
		2478	8	1.153	>=0.5	Pass



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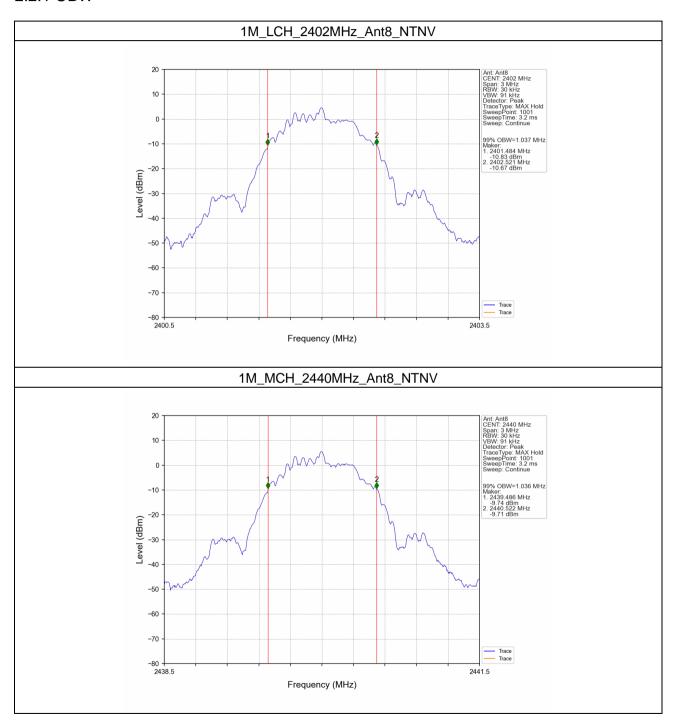
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## 2.2 Test Graph

### 2.2.1 OBW





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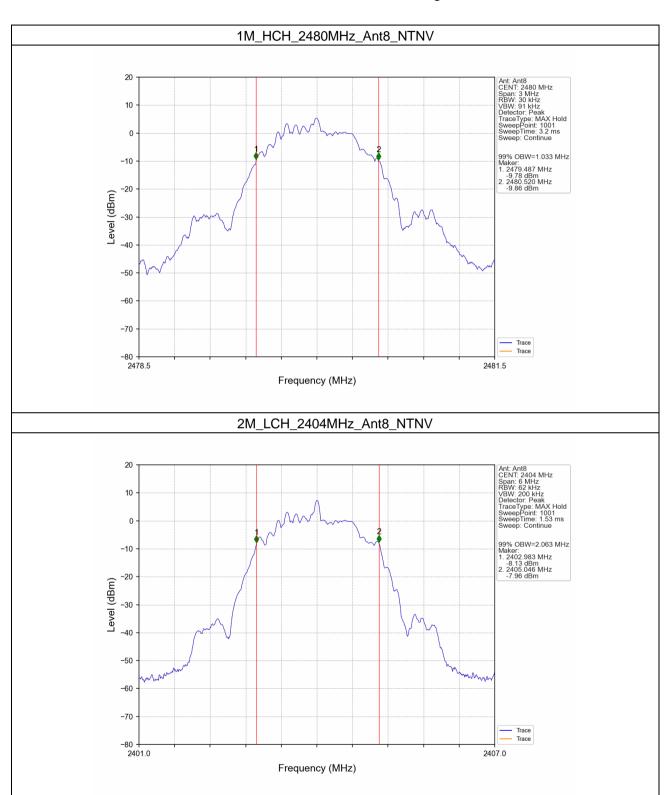
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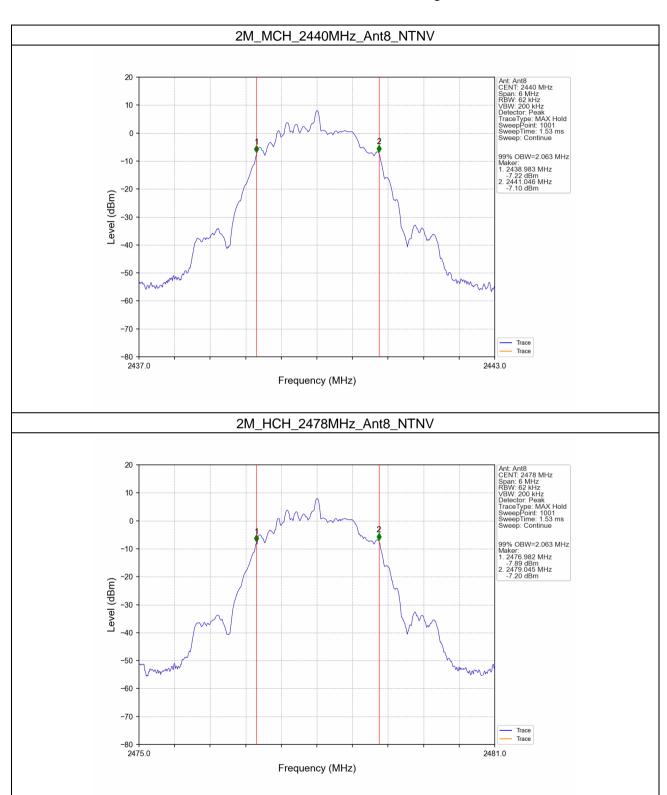
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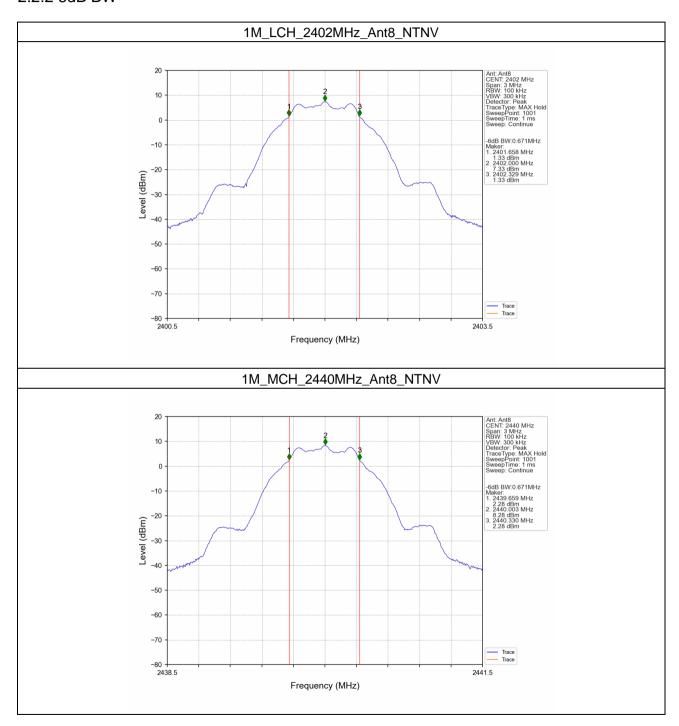


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#### 2.2.2 6dB BW





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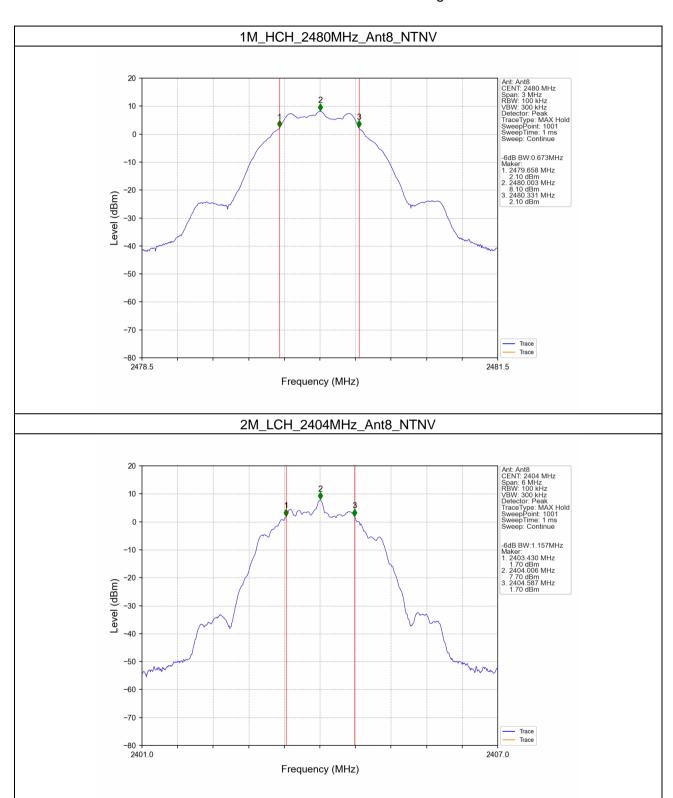
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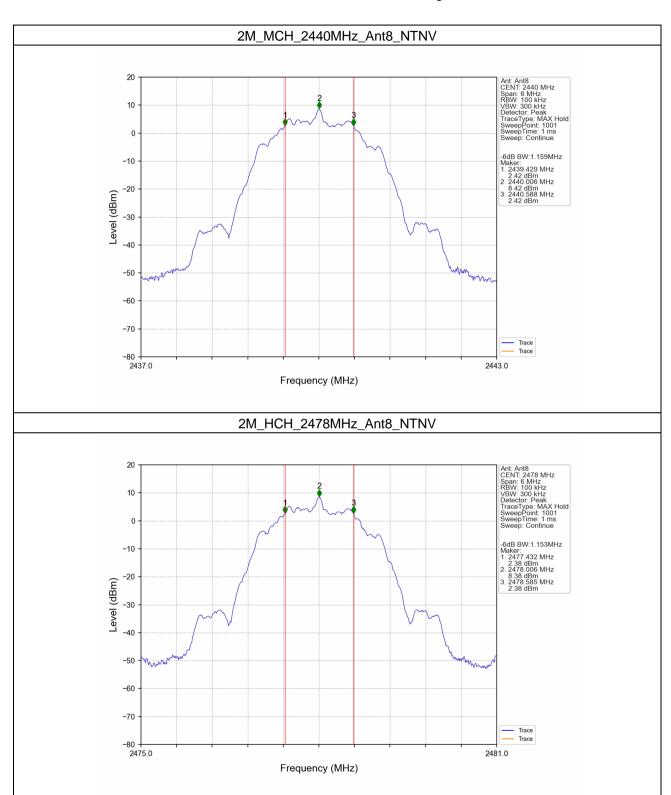
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## 3. Maximum Conducted Output Power

## 3.1 Test Result

#### 3.1.1 Power

Mada	TX	Frequency	Maximum Peak Conduc	\			
Mode	Type	(MHz)	ANT8	Limit	Verdict		
		2402	7.46	<=30	Pass		
1M	SISO	2440	8.43	<=30	Pass		
		2480	8.27	<=30	Pass		
		2404	7.87	<=30	Pass		
2M	SISO	2440	8.58	<=30	Pass		
		2478	8.57	<=30	Pass		
Note1: Antenna Gain: Ant8: -1.00dBi;							

## 4. Maximum Power Spectral Density

### 4.1 Test Result

### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		\/oveliet
			ANT8	Limit	Verdict
1M	SISO	2402	-7.26	<=8	Pass
		2440	-6.32	<=8	Pass
		2480	-6.46	<=8	Pass
2M	SISO	2404	-10.48	<=8	Pass
		2440	-9.74	<=8	Pass
		2478	-9.78	<=8	Pass



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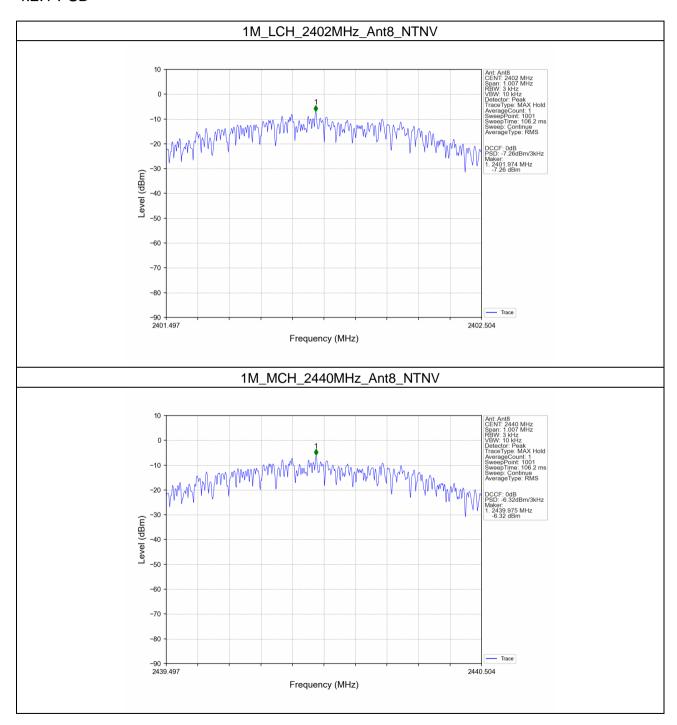
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## 4.2 Test Graph

### 4.2.1 PSD





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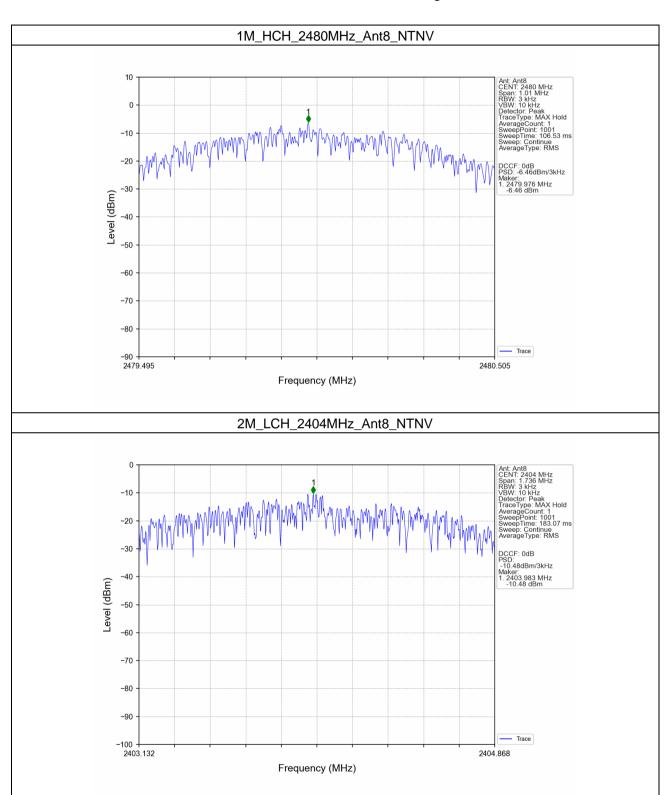
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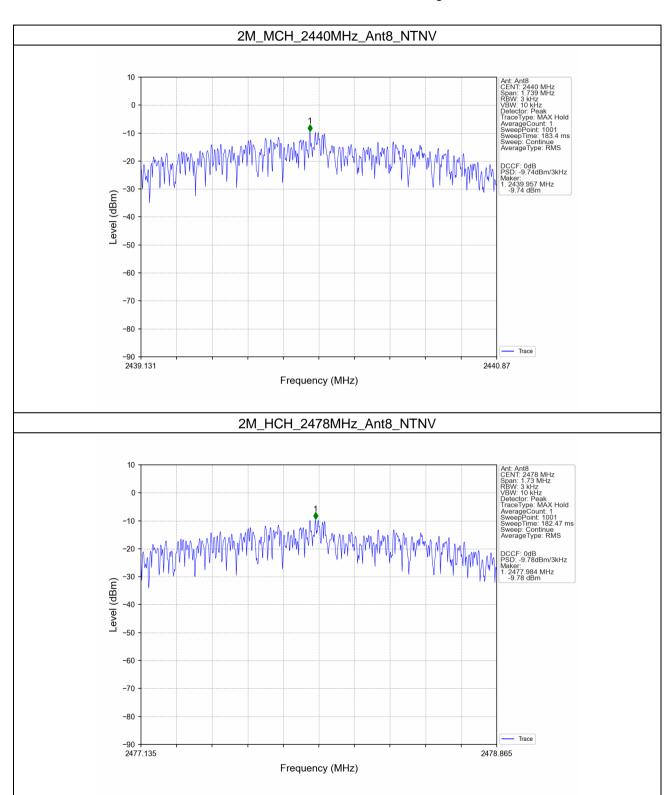
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## Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	8	7.17
		2440	8	8.15
		2480	8	8.12
	SISO	2404	8	7.49
2M		2440	8	8.20
ZIVI		2478	8	8.25

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	8	8.15	-11.85	Pass
		2440	8	8.15	-11.85	Pass
		2480	8	8.15	-11.85	Pass
2M	SISO	2404	8	8.25	-11.75	Pass
		2440	8	8.25	-11.75	Pass
		2478	8	8.25	-11.75	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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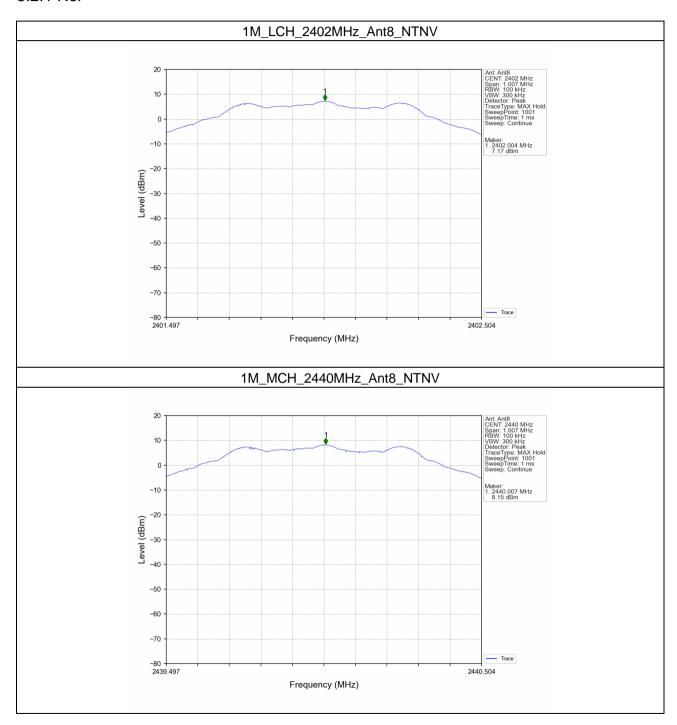
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## 5.2 Test Graph

### 5.2.1 Ref





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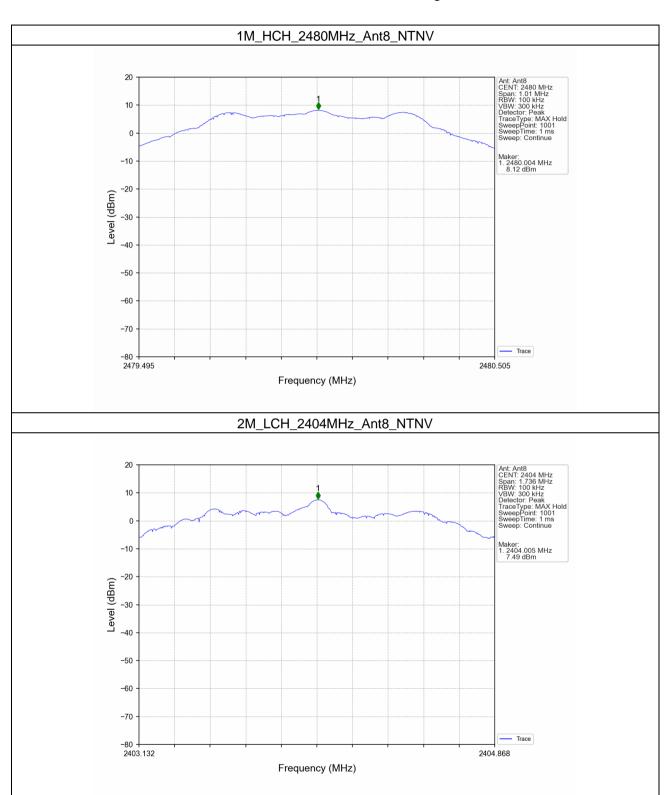
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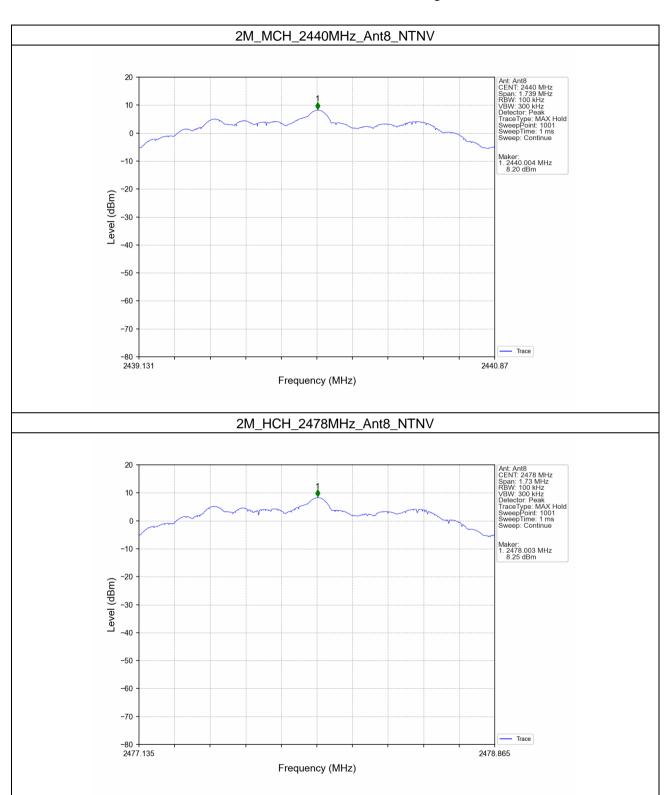
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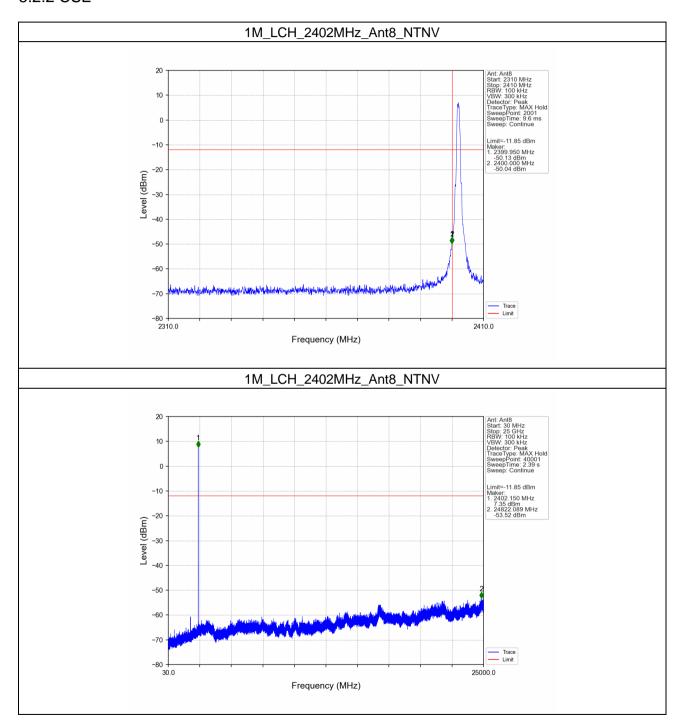


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#### 5.2.2 CSF





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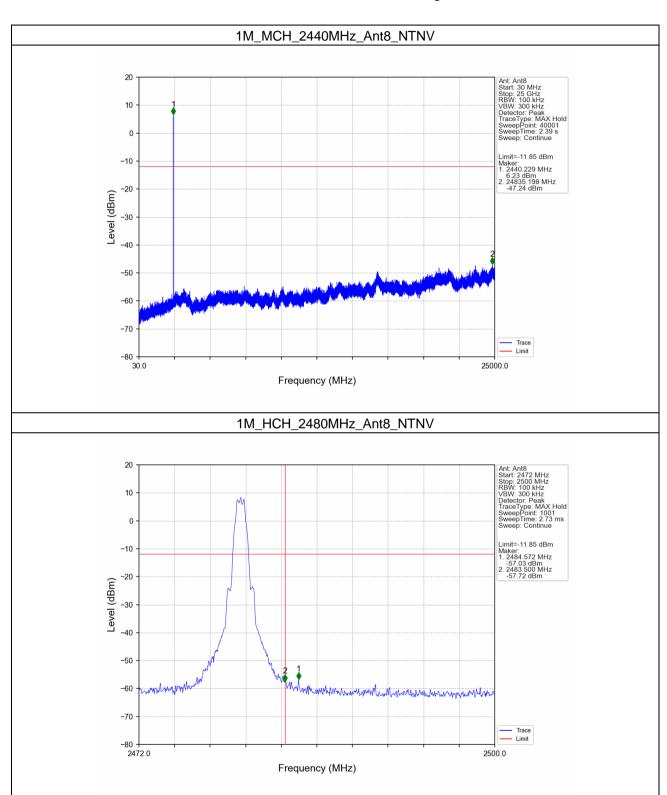
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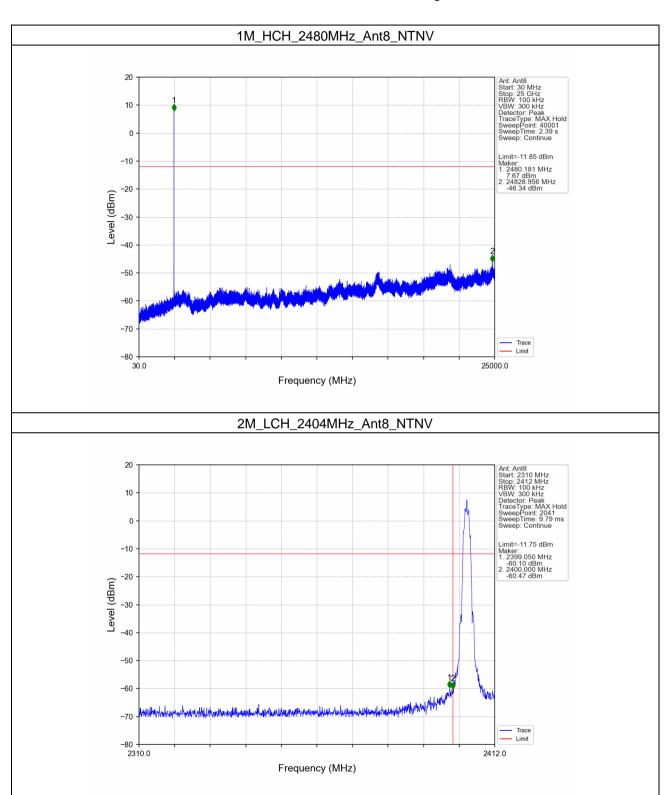
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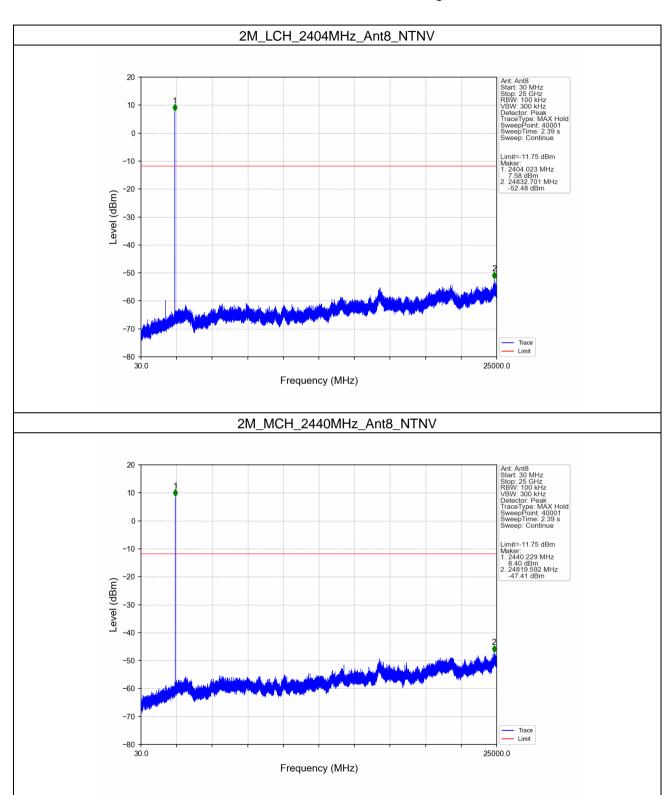
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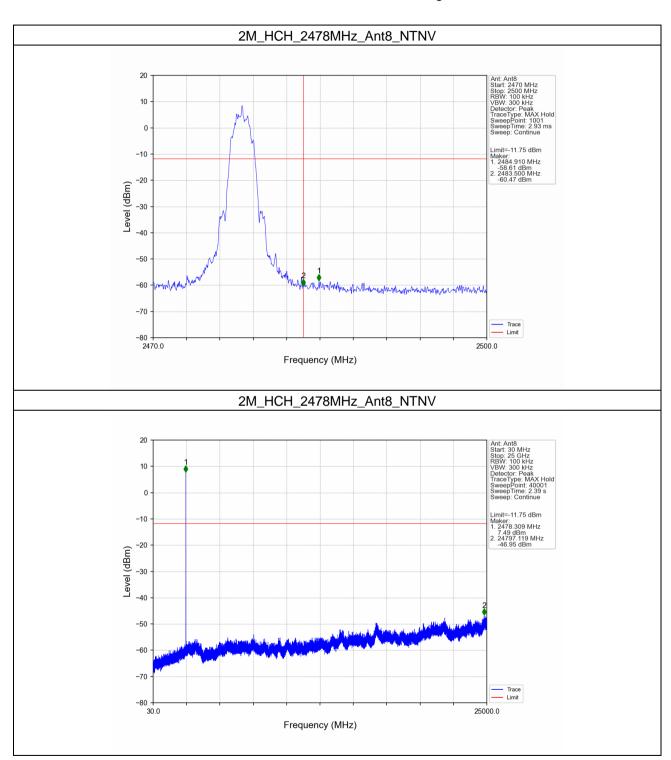
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#### - End of the Report -



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