

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460907

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TEST REPORT

Application No.: SZCR2412004609WM

Applicant: vivo Mobile Communication Co., Ltd.

Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

Manufacturer: vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China Address of Manufacturer:

Equipment Under Test (EUT):

EUT Description: Mobile phone

Model No.: V2427 Trade Mark: vivo

FCC ID: 2AUCY-V2427

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

2024-12-06 Date of Receipt:

Date of Test: 2024-12-28 to 2025-01-04

2025-01-10 Date of Issue:

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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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		2025-01-10		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.:	V2427				
Trade Mark:	vivo				
Hardware Version:	MP_0.1				
Software Version:	PD2437JF_EX_A_15.0.8.0.W30				
Power Supply:	DC 3.84V from internal rechargeable battery which can be charged be AC/DC adapter				
	2400MHz~2483.5MHz				
Operation Frequency:	fc = 2402 MHz + N * 2 MHz, where:				
-1	-fc = "Operating Frequency" in MHz,				
	-N = "Channel Number" with the range from 0 to 39.				
Bluetooth version:	Bluetooth V5.4				
Modulation Type:	GFSK				
Number of Channel:	40				
Datas Typa*i	⊠Provided by client				
Rates Type*:	1M PHY 2M PHY				
Antenna Type:	PIFA Antenna				
	-1.18dBi(Ant22); 0.53dBi(Ant25);				
Antenna Gain:	Note:				
Autorina 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 Tests		
Relative Humidity		37.9-50.9 % RH Ambient		
Value		Temperatu	ıre(°C)	Voltage(V)
NTNV		22.5~24.5		3.84
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	ltage	HV:High Extren	ne Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Ter	mperature	HT:High Extrem	ne Test Temperature



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4.3 Description of Support Units

Description	Manufacturer Model No.		Serial No.				
		-					
The EUT has been tested as	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	

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 PIFA antenna, and the connection port is integrated into the product. The antenna cannot be replaced.

The best-case gain of the antenna is -1.18dBi(Ant22); 0.53dBi(Ant25).*

*Note:

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

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 amission (MIII-)	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	resolution bandwidth) 0.15M to 30	MHz				

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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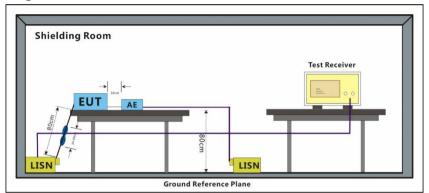
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7.1.3 Test Setup Diagram



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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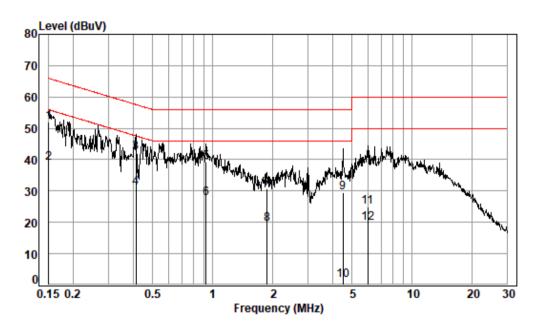


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Test Mode: 05: Line: Live line



: Shielding Room

Condition: Line Job No. : 04609WM

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	10.19	41.70	51.95	65.96	-14.01	QP
2	0.1508	0.06	10.19	28.69	38.94	55.96	-17.02	Average
3	0.4127	0.07	9.66	32.50	42.23	57.59	-15.36	QP
4 *	0.4127	0.07	9.66	21.33	31.06	47.59	-16.53	Average
5	0.9282	0.09	9.59	29.46	39.14	56.00	-16.86	QP
6	0.9282	0.09	9.59	18.14	27.82	46.00	-18.18	Average
7	1.8779	0.10	9.58	20.94	30.62	56.00	-25.38	QP
8	1.8779	0.10	9.58	9.64	19.32	46.00	-26.68	Average
9	4.5015	0.12	9.66	19.77	29.55	56.00	-26.45	QP
10	4.5015	0.12	9.66	-8.18	1.60	46.00	-44.40	Average
11	5.9925	0.14	9.67	15.08	24.89	60.00	-35.11	QP
12	5.9925	0.14	9.67	9.88	19.69	50.00	-30.31	Average

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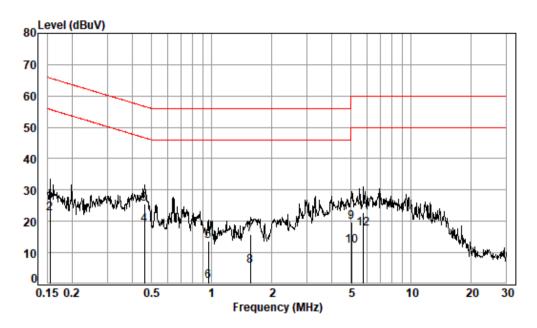


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Test Mode: 05: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04609WM

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.06	10.14	16.04	26.24	65.74	-39.50	QP
2	0.1548	0.06	10.14	12.44	22.64	55.74	-33.10	Average
3 *	0.4612	0.08	9.72	15.81	25.61	56.67	-31.06	QP
4 *	0.4612	0.08	9.72	9.09	18.89	46.67	-27.78	Average
5	0.9633	0.09	9.55	4.07	13.71	56.00	-42.29	QP
6	0.9633	0.09	9.55	-8.72	0.92	46.00	-45.08	Average
7	1.5601	0.10	9.55	6.22	15.87	56.00	-40.13	QP
8	1.5601	0.10	9.55	-3.84	5.81	46.00	-40.19	Average
9	5.0046	0.12	9.56	9.97	19.65	60.00	-40.35	QP
10	5.0046	0.12	9.56	2.41	12.09	50.00	-37.91	Average
11	5.7438	0.14	9.60	13.15	22.89	60.00	-37.11	QP
12	5.7438	0.14	9.60	7.91	17.65	50.00	-32.35	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

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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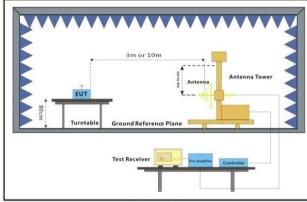


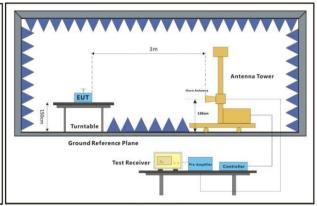
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7.2.3 Test Setup Diagram





Above 1GHz 30MHz-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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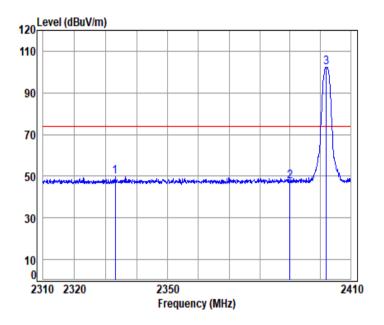


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BLE 1M TX CH 00 Horizontal-Peak-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

· RIF 1M ANT25

	. DLL	THE WIN	123						
		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	2333.022	6.80	27.27	31.53	47.16	49.70	74.00	-24.30	peak
2									
3 рр	2402.000								•



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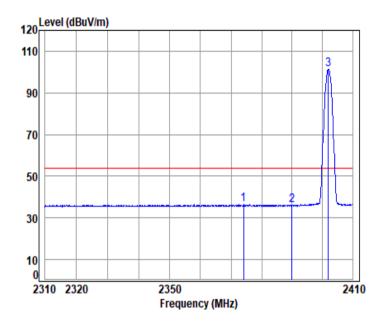


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BLE_1M_TX_CH_00_Horizontal-AVG-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

: BLE 1M ANT25

		5			Preamp					DI-	
		Freq	LOSS	Factor	Factor	revei	revei	Line	Limit	Kemark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2374.115	6.82	27.40	31.54	33.75	36.43	54.00	-17.57	Average	
2		2390.000	6.82	27.46	31.54	33.11	35.85	54.00	-18.15	Average	
3	pp	2402.000	6.84	27.50	31.54	98.67	101.47	54.00	47.47	Average	



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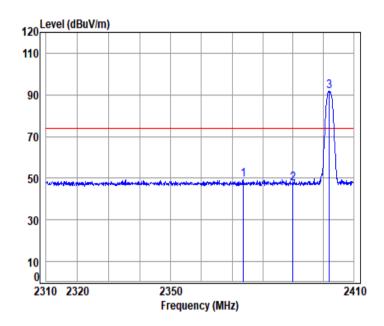


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BLE_1M_TX_CH_00_Vertical-Peak-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 1M ANT25

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2373.712	6.82	27.39	31.54	46.66	49.33	74.00	-24.67	peak
2	2390.000	6.82	27.46	31.54	44.65	47.39	74.00	-26.61	peak
3 pp	2402.000	6.84	27.50	31.54	88.77	91.57	74.00	17.57	peak



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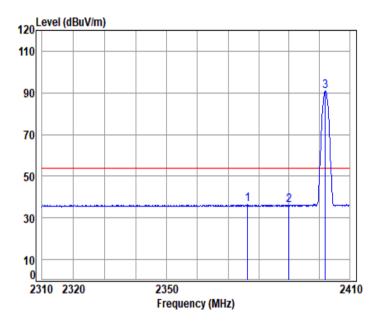


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BLE_1M_TX_CH_00_Vertical-AVG-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 1M ANT25

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2376.430	6.82	27.41	31.54	33.84	36.53	54.00	-17.47	Average	
2		2390.000	6.82	27.46	31.54	33.27	36.01	54.00	-17.99	Average	
3	pp	2402.000	6.84	27.50	31.54	87.99	90.79	54.00	36.79	Average	



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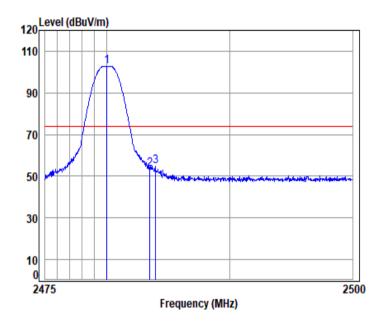


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BLE_1M_TX_CH_39_Horizontal-Peak-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT25

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	рр	2480.000	7.37	27.78	31.55	99.26	102.86	74.00	28.86	peak
2		2483.500	7.40	27.80	31.55	49.76	53.41	74.00	-20.59	peak
3		2483.946	7.40	27.80	31.55	50.92	54.57	74.00	-19.43	peak



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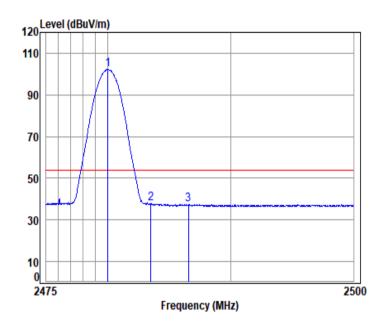


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BLE_1M_TX_CH_39_Horizontal-AVG-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT25

		Frea			Preamp Factor					Remark	
	-				——dB				——dB		-
1	pp	2480.000	7.37	27.78	31.55	98.51	102.11	54.00	48.11	Average	
2		2483.500	7.40	27.80	31.55	34.11	37.76	54.00	-16.24	Average	
3		2486.544	7.42	27.82	31.55	33.82	37.51	54.00	-16.49	Average	



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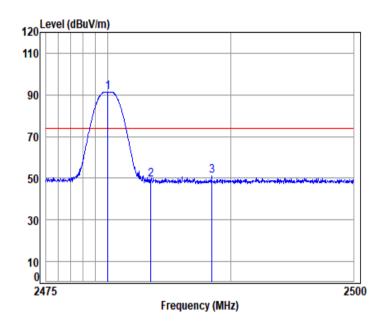


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BLE_1M_TX_CH_39_Vertical-Peak-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT25

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.000	7.37	27.78	31.55	87.82	91.42	74.00	17.42	peak
2	2483.500	7.40	27.80	31.55	45.52	49.17	74.00	-24.83	peak
3	2488.444	7.43	27.83	31.55	47.36	51.07	74.00	-22.93	peak



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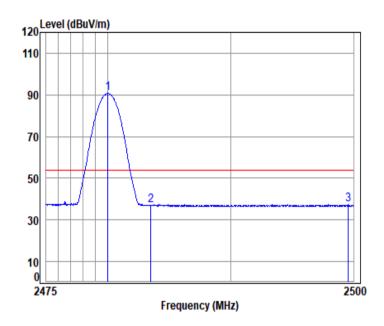


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BLE_1M_TX_CH_39_Vertical-AVG-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT25

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2480.000	7.37	27.78	31.55	87.07	90.67	54.00	36.67	Average	
2		2483.500	7.40	27.80	31.55	33.18	36.83	54.00	-17.17	Average	
3		2499.573	7.51	27.90	31.55	33.53	37.39	54.00	-16.61	Average	



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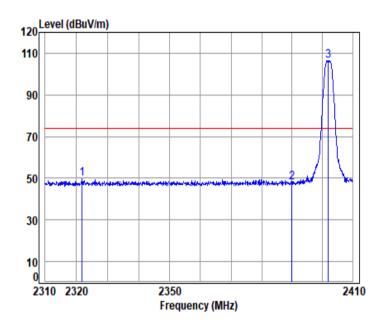


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BLE_2M_TX_CH_00_Horizontal-Peak-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT25

		Freq					Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2321.876	6.79	27.24	31.53	47.16	49.66	74.00	-24.34	peak
2		2390.000	6.82	27.46	31.54	45.30	48.04	74.00	-25.96	peak
3	pp	2402.000	6.84	27.50	31.54	103.47	106.27	74.00	32.27	peak



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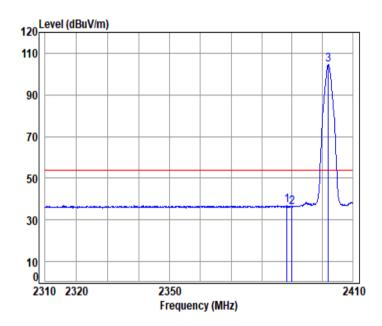


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BLE_2M_TX_CH_00_Horizontal-AVG-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT25

		Freq					Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2388.343	6.82	27.45	31.54	34.15	36.88	54.00	-17.12	Average
2		2390.000	6.82	27.46	31.54	33.47	36.21	54.00	-17.79	Average
3	pp	2402.000	6.84	27.50	31.54	101.72	104.52	54.00	50.52	Average



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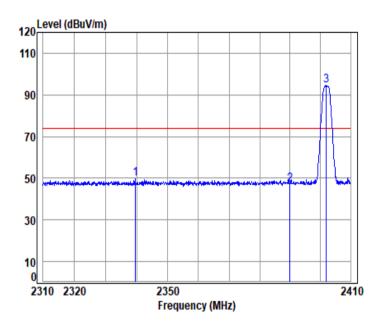


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BLE_2M_TX_CH_00_Vertical-Peak-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT25

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2339.556	6.80	27.28	31.53	46.97	49.52	74.00	-24.48	peak
2		2390.000	6.82	27.46	31.54	44.07	46.81	74.00	-27.19	peak
3	gg	2402.000	6.84	27.50	31.54	91.43	94.23	74.00	20.23	peak



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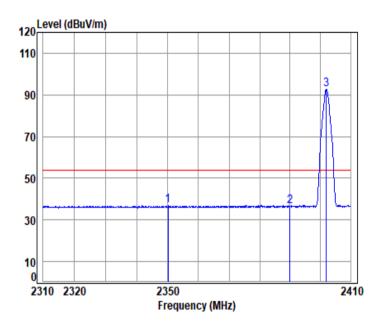


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BLE_2M_TX_CH_00_Vertical-AVG-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT25

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1		2350.189	6.81	27.30	31.54	34.45	37.02	54.00	-16.98	Average	
2		2390.000	6.82	27.46	31.54	33.61	36.35	54.00	-17.65	Average	
3	pp	2402.000	6.84	27.50	31.54	89.73	92.53	54.00	38.53	Average	



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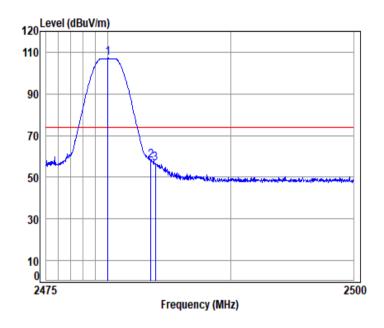


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BLE_2M_TX_CH_39_Horizontal-Peak-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT25

			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	2480.000	7.37	27.78	31.55	103.40	107.00	74.00	33.00	peak	
		2483.500								•	
		2483.871								•	



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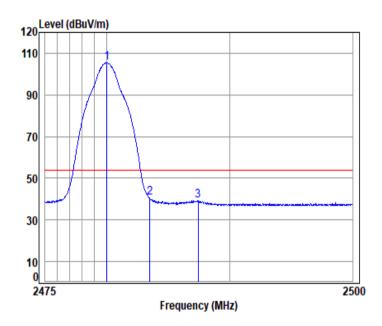


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BLE_2M_TX_CH_39_Horizontal-AVG-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT25

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.000	7.37	27.78	31.55	101.71	105.31	54.00	51.31	Average
2	2483.500	7.40	27.80	31.55	36.82	40.47	54.00	-13.53	Average
3	2487.419	7.42	27.82	31.55	35.57	39.26	54.00	-14.74	Average



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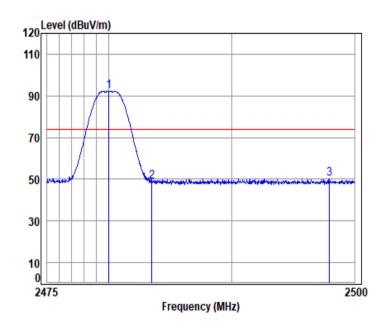


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BLE_2M_TX_CH_39_Vertical-Peak-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT25

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.000	7.37	27.78	31.55	88.55	92.15	74.00	18.15	peak
2	2483.500	7.40	27.80	31.55	45.29	48.94	74.00	-25.06	peak
3	2497.966	7.50	27.89	31.55	46.45	50.29	74.00	-23.71	peak



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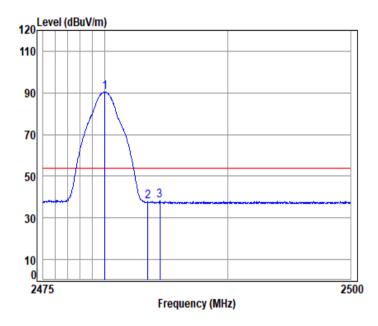


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BLE_2M_TX_CH_39_Vertical-AVG-Ant25



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT25

		_			Preamp						
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	рр	2480.000	7.37	27.78	31.55	86.86	90.46	54.00	36.46	Average	
2		2483.500	7.40	27.80	31.55	34.06	37.71	54.00	-16.29	Average	
3		2484.470	7.40	27.81	31.55	34.44	38.10	54.00	-15.90	Average	



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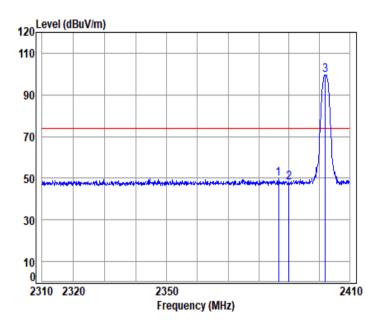


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BLE_1M_TX_CH_00_Horizontal-Peak-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

: BLE 1M ANT22

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2386.522	6.82	27.45	31.54	47.19	49.92	74.00	-24.08	peak
2		2390.000	6.82	27.46	31.54	45.29	48.03	74.00	-25.97	peak
3	pp	2402.000	6.84	27.50	31.54	96.63	99.43	74.00	25.43	peak



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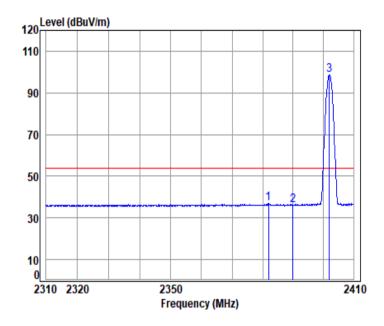


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BLE_1M_TX_CH_00_Horizontal-AVG-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

· RIF 1M ANT22

		. DLL	TH AN	122							
			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		2381.975	6.82	27.43	31.54	34.28	36.99	54.00	-17.01	Average	
2		2390.000	6.82	27.46	31.54	33.27	36.01	54.00	-17.99	Average	
3	nn	2/02 000	6 8/	27 50	31 5/	95 83	98 63	5/ 00	44 63	Avenage	



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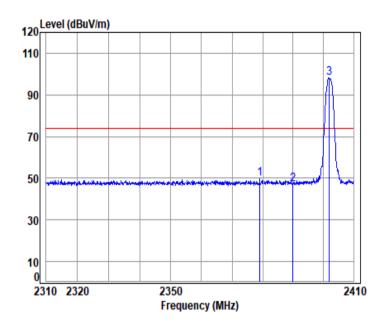


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BLE_1M_TX_CH_00_Vertical-Peak-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 1M ANT22

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2379.050	6.82	27.42	31.54	47.03	49.73	74.00	-24.27	peak
2		2390.000	6.82	27.46	31.54	44.46	47.20	74.00	-26.80	peak
3	pp	2402.000	6.84	27.50	31.54	95.11	97.91	74.00	23.91	peak



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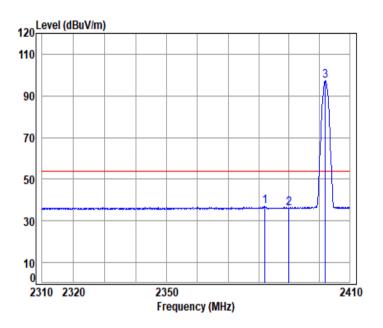


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BLE_1M_TX_CH_00_Vertical-AVG-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 1M ANT22

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2382.076	6.82	27.43	31.54	34.18	36.89	54.00	-17.11	Average
2	2390.000	6.82	27.46	31.54	33.44	36.18	54.00	-17.82	Average
3	pp 2402.000	6.84	27.50	31.54	94.31	97.11	54.00	43.11	Average



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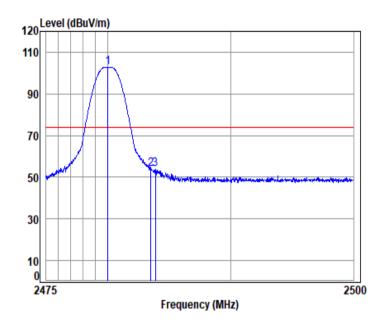


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BLE_1M_TX_CH_39_Horizontal-Peak-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT22

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	p 2480.000	7.37	27.78	31.55	99.22	102.82	74.00	28.82	peak
2	2483.500	7.40	27.80	31.55	50.30	53.95	74.00	-20.05	peak
3	2483.871	7.40	27.80	31.55	50.27	53.92	74.00	-20.08	peak



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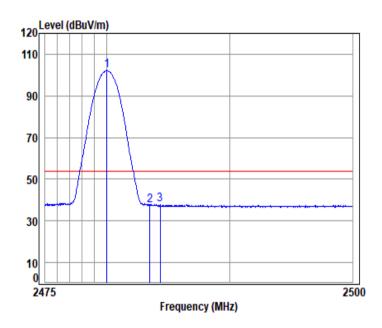


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BLE_1M_TX_CH_39_Horizontal-AVG-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT22

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	рр	2480.000	7.37	27.78	31.55	98.49	102.09	54.00	48.09	Average	
2		2483.500	7.40	27.80	31.55	33.74	37.39	54.00	-16.61	Average	
3		2484.345	7.40	27.81	31.55	34.15	37.81	54.00	-16.19	Average	



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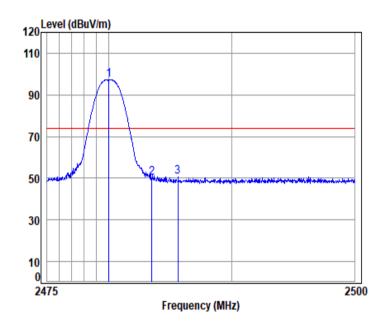


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BLE_1M_TX_CH_39_Vertical-Peak-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT22

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	рр	2480.000	7.37	27.78	31.55	93.44	97.04	74.00	23.04	peak
2		2483.500	7.40	27.80	31.55	46.48	50.13	74.00	-23.87	peak
3		2485.619	7.41	27.81	31.55	47.03	50.70	74.00	-23.30	peak



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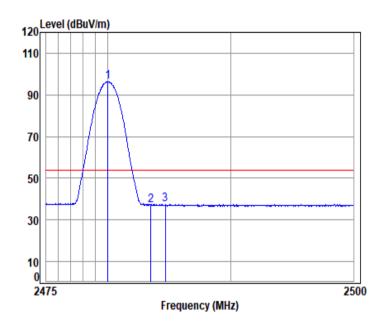


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BLE_1M_TX_CH_39_Vertical-AVG-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 1M ANT22

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	рр	2480.000	7.37	27.78	31.55	92.71	96.31	54.00	42.31	Average
2		2483.500	7.40	27.80	31.55	33.42	37.07	54.00	-16.93	Average
3		2484.670	7.41	27.81	31.55	33.85	37.52	54.00	-16.48	Average



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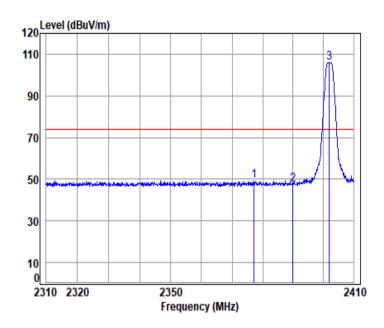


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BLE_2M_TX_CH_00_Horizontal-Peak-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT22

			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		2377.236	6.82	27.41	31.54	46.81	49.50	74.00	-24.50	peak	
		2390.000									
3	pp	2402.000	6.84	27.50	31.54	103.19	105.99	74.00	31.99	peak	



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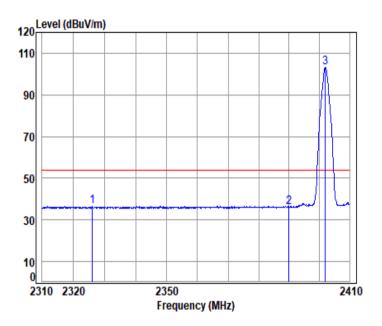


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BLE_2M_TX_CH_00_Horizontal-AVG-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT22

		Freq					Level			Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB		-
1		2326.012	6.79	27.25	31.53	34.09	36.60	54.00	-17.40	Average	
2		2390.000	6.82	27.46	31.54	33.27	36.01	54.00	-17.99	Average	
3	pp	2402.000	6.84	27.50	31.54	100.12	102.92	54.00	48.92	Average	



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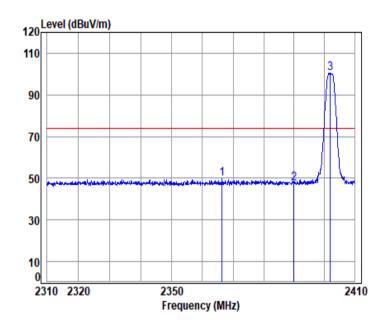


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BLE_2M_TX_CH_00_Vertical-Peak-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT22

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2366.380	6.81	27.37	31.54	47.23	49.87	74.00	-24.13	peak
2		2390.000	6.82	27.46	31.54	44.58	47.32	74.00	-26.68	peak
3	pp	2402.000	6.84	27.50	31.54	97.48	100.28	74.00	26.28	peak



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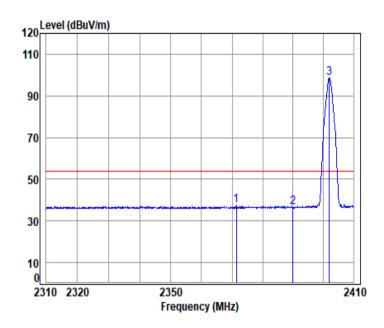


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BLE_2M_TX_CH_00_Vertical-AVG-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2402 Band edge

: BLE 2M ANT22

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.399	6.82	27.39	31.54	34.67	37.34	54.00	-16.66	Average
2	2390.000	6.82	27.46	31.54	33.74	36.48	54.00	-17.52	Average
3 r	p 2402.000	6.84	27.50	31.54	95.71	98.51	54.00	44.51	Average



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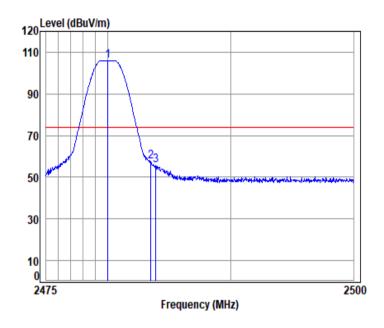


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BLE_2M_TX_CH_39_Horizontal-Peak-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT22

		Freq					Level			Remark
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	pp	2480.000	7.37	27.78	31.55	102.46	106.06	74.00	32.06	peak
2		2483.500	7.40	27.80	31.55	53.70	57.35	74.00	-16.65	peak
3		2483.896	7.40	27.80	31.55	51.97	55.62	74.00	-18.38	peak



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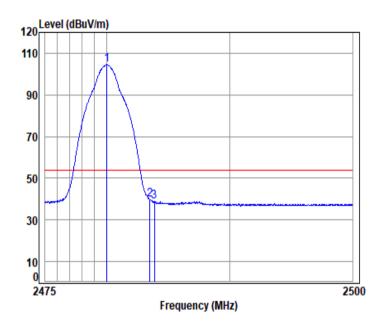


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BLE_2M_TX_CH_39_Horizontal-AVG-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT22

		Freq					Level			Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		_
1	рр	2480.000	7.37	27.78	31.55	100.77	104.37	54.00	50.37	Average	
2		2483.500	7.40	27.80	31.55	35.89	39.54	54.00	-14.46	Average	
3		2483.846	7.40	27.80	31.55	35.26	38.91	54.00	-15.09	Average	



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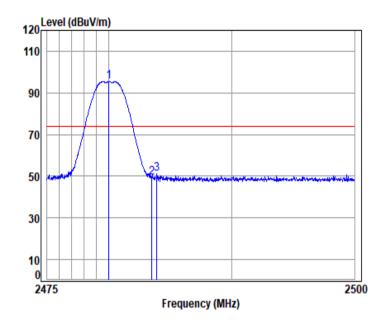


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BLE_2M_TX_CH_39_Vertical-Peak-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT22

				Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2	480.000	7.37	27.78	31.55	91.75	95.35	74.00	21.35	peak
2 2	483.500	7.40	27.80	31.55	45.64	49.29	74.00	-24.71	peak
3 2	483.896	7.40	27.80	31.55	47.35	51.00	74.00	-23.00	peak



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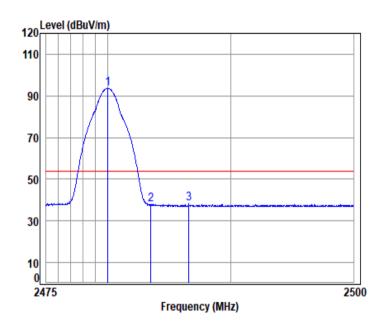


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BLE_2M_TX_CH_39_Vertical-AVG-Ant22



Condition: 3m VERTICAL Job No : 04609WM

Mode : 2480 Band edge

: BLE 2M ANT22

		Enoa			Preamp Factor					Pomank	
		rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIT	Kelliark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	рр	2480.000	7.37	27.78	31.55	90.03	93.63	54.00	39.63	Average	
2		2483.500	7.40	27.80	31.55	34.40	38.05	54.00	-15.95	Average	
3		2486.594	7.42	27.82	31.55	34.41	38.10	54.00	-15.90	Average	



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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: 23.6 °C Humidity: 50.9 % 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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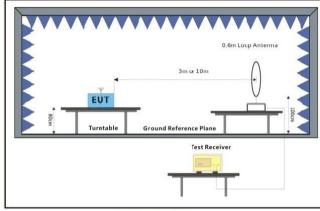
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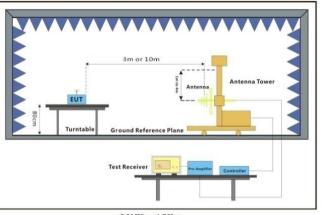


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7.3.3 Test Setup Diagram





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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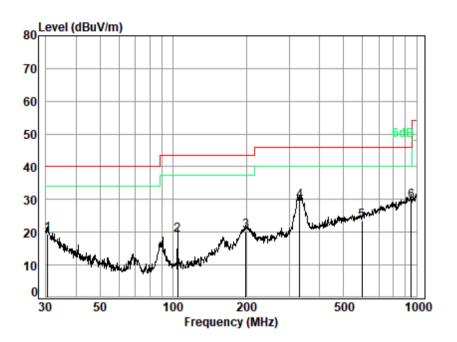


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Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04609AT

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	30.531	20.95	0.68	27.79	25.74	19.58	40.00	-20.42	QP
2	104.170	12.22	1.25	27.57	33.24	19.14	43.50	-24.36	QP
3	199.286	14.08	1.76	27.17	31.60	20.27	43.50	-23.23	QP
4	331.355	18.74	2.33	26.88	35.25	29.44	46.00	-16.56	QP
5	597.223	24.44	3.23	27.96	23.66	23.37	46.00	-22.63	QP
6 a	952.094	28.17	4.26	26.39	23.45	29.49	46.00	-16.51	OP.



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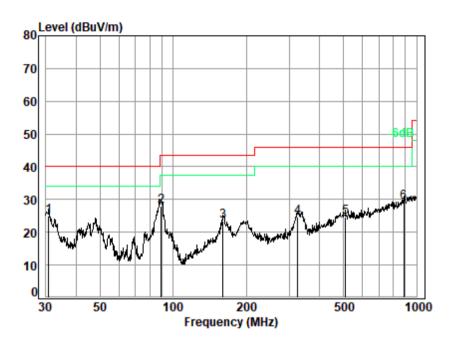


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Test Mode: 05; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04609AT

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	30.853	20.81	0.68	27.79	31.38	25.08	40.00	-14.92	QP
2	89.276	11.65	1.16	27.62	42.90	28.09	43.50	-15.41	QP
3	160.346	13.56	1.59	27.34	35.52	23.33	43.50	-20.17	QP
4	325.596	18.62	2.31	26.85	30.47	24.55	46.00	-21.45	QP
5	510.044	23.17	2.95	27.60	26.22	24.74	46.00	-21.26	QP
6	884.503	27.84	4.08	26.88	24.13	29.17	46.00	-16.83	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

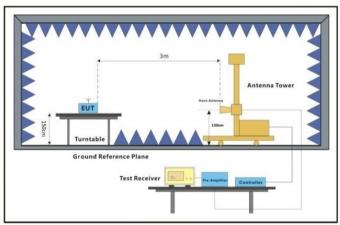
Operating Environment:

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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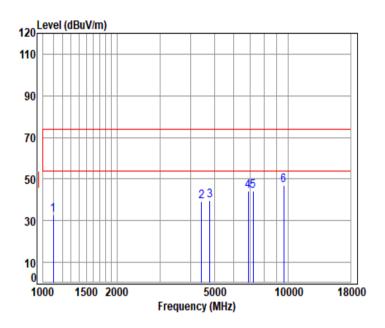


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BLE_1M_TX_CH_00_Horizontal-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 TX RSE

: BLE 1M ANT25

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1100.079	7.10	25.60	54.70	54.82	32.82	74.00	-41.18	peak
2		4443.453	8.55	31.37	55.91	55.05	39.06	74.00	-34.94	peak
3		4804.000	8.90	31.92	56.16	54.97	39.63	74.00	-34.37	peak
4		6874.906	10.95	36.10	56.73	54.13	44.45	74.00	-29.55	peak
5		7206.000	11.10	36.60	56.54	53.09	44.25	74.00	-29.75	peak
6	nn	9608,000	12.38	38.78	54.45	50.45	47.16	74.00	-26.84	neak



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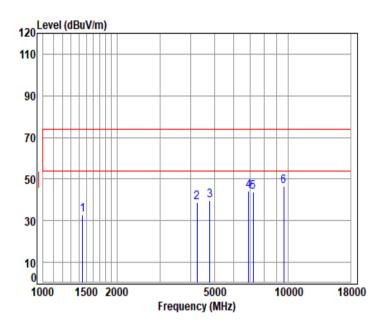


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BLE_1M_TX_CH_00_Vertical-Ant25



Condition: 3m VERTICAL Job No : 04609WM Mode : 2402 TX RSE

: BLE 1M ANT25

		T	123						
		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	1451.878	7.22	25.09	54.70	55.04	32.65	74.00	-41.35	peak
2	4254.921	8.48	31.12	55.78	55.06	38.88	74.00	-35.12	peak
3	4804.000	8.90	31.92	56.16	55.14	39.80	74.00	-34.20	peak
4	6914.763	10.94	36.17	56.72	53.99	44.38	74.00	-29.62	peak
5	7206.000	11.10	36.60	56.54	52.87	44.03	74.00	-29.97	peak
6	pp 9608.000	12.38	38.78	54.45	49.70	46.41	74.00	-27.59	peak



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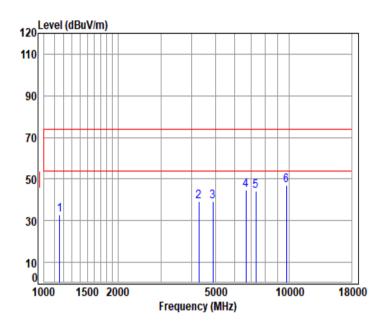


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BLE_1M_TX_CH_19_Horizontal-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2440 TX RSE

: BLE 1M ANT25

			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	
4		4450 000	7.45	25 20	F4 70	54.03	22.66	74.00	44 34	
1		1158.828	7.15	25.38	54.70	54.83	32.66	74.00	-41.34	peak
2		4279.589	8.46	31.22	55.80	55.40	39.28	74.00	-34.72	peak
3		4880.000	8.98	32.16	56.22	54.47	39.39	74.00	-34.61	peak
4		6659.763	10.84	35.48	56.77	55.08	44.63	74.00	-29.37	peak
5		7320.000	11.12	36.74	56.44	52.98	44.40	74.00	-29.60	peak
6	pp	9760.000	12.84	38,60	54.32	49.67	46.79	74.00	-27.21	peak



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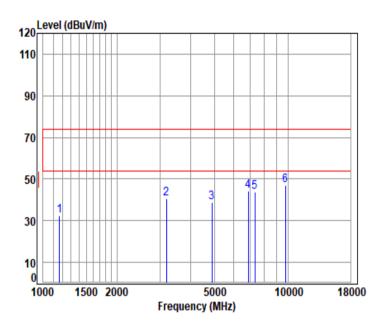


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BLE_1M_TX_CH_19_Vertical-Ant25



Condition: 3m VERTICAL Job No : 04609WM Mode : 2440 TX RSE

: BLE 1M ANT25

			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		1165.546	7.16	25.37	54.70	54.64	32.47	74.00	-41.53	peak
2		3186.869	7.70	29.20	55.11	58.70	40.49	74.00	-33.51	peak
3		4880.000	8.98	32.16	56.22	54.07	38.99	74.00	-35.01	peak
4		6874.906	10.95	36.10	56.73	54.14	44.46	74.00	-29.54	peak
5		7320.000	11.12	36.74	56.44	52.40	43.82	74.00	-30.18	peak
6	рр	9760.000	12.84	38.60	54.32	49.99	47.11	74.00	-26.89	peak



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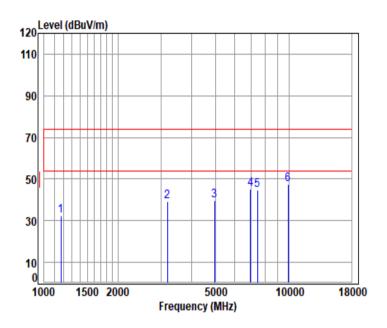


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BLE_1M_TX_CH_39_Horizontal-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 TX RSE

: BLE 1M ANT25

			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	
4		4460 000	7.46	25.26	F4 70	F4 70	22 52	74.00	44 40	
1		1168.920	7.16	25.36	54.70	54.70	32.52	74.00	-41.48	peak
2		3186.869	7.70	29.20	55.11	57.31	39.10	74.00	-34.90	peak
3		4960.000	9.07	32.20	56.27	54.56	39.56	74.00	-34.44	peak
4		6954.852	10.95	36.11	56.71	54.61	44.96	74.00	-29.04	peak
5		7440.000	11.08	36.78	56.35	53.00	44.51	74.00	-29.49	peak
6	pp	9920.000	12.73	38.90	54.17	49.81	47.27	74.00	-26.73	peak



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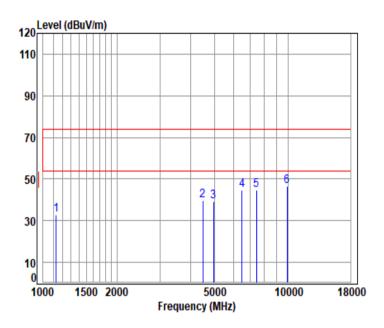


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BLE_1M_TX_CH_39_Vertical-Ant25



Condition: 3m VERTICAL Job No : 04609WM Mode : 2480 TX RSE

: BLE 1M ANT25

			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		1132.340	7.13	25.47	54.70	54.75	32.65	74.00	-41.35	peak
2		4495.125	8.56	31.58	55.95	55.30	39.49	74.00	-34.51	peak
3		4960.000	9.07	32.20	56.27	54.25	39.25	74.00	-34.75	peak
4		6488.754	10.64	34.88	56.80	56.22	44.94	74.00	-29.06	peak
5		7440.000	11.08	36.78	56.35	53.21	44.72	74.00	-29.28	peak
6	pp	9920.000	12.73	38.90	54.17	49.18	46.64	74.00	-27.36	peak



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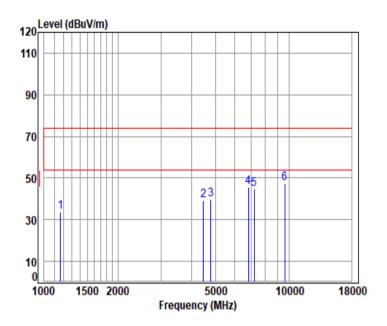


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BLE_2M_TX_CH_00_Horizontal-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 TX RSE

: BLE 2M ANT25

			211 711	125						
			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		1165.546	7.16	25.37	54.70	55.92	33.75	74.00	-40.25	peak
2		4469.214	8.55	31.48	55.93	55.16	39.26	74.00	-34.74	peak
3		4804.000	8.90	31.92	56.16	55.18	39.84	74.00	-34.16	peak
4		6815.551	10.97	35.93	56.74	55.29	45.45	74.00	-28.55	peak
5		7206.000	11.10	36.60	56.54	53.38	44.54	74.00	-29.46	peak
6	pp	9608.000	12.38	38.78	54.45	50.53	47.24	74.00	-26.76	peak



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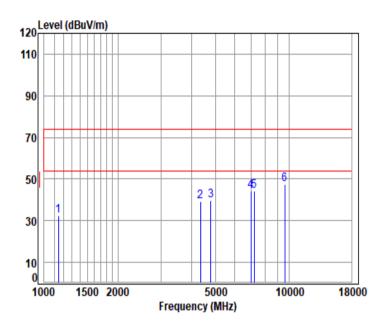


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BLE_2M_TX_CH_00_Vertical-Ant25



Condition: 3m VERTICAL Job No : 04609WM Mode : 2402 TX RSE

: BLE 2M ANT25

			211 /111	123						
			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		1145.507	7.14	25.42	54.70	54.46	32.32	74.00	-41.68	peak
2		4354.454	8.50	31.29	55.85	55.18	39.12	74.00	-34.88	peak
3		4804.000	8.90	31.92	56.16	54.94	39.60	74.00	-34.40	peak
4		6995.172	10.96	36.19	56.70	54.00	44.45	74.00	-29.55	peak
5		7206.000	11.10	36.60	56.54	53.15	44.31	74.00	-29.69	peak
6	pp	9608.000	12.38	38.78	54.45	50.75	47.46	74.00	-26.54	peak



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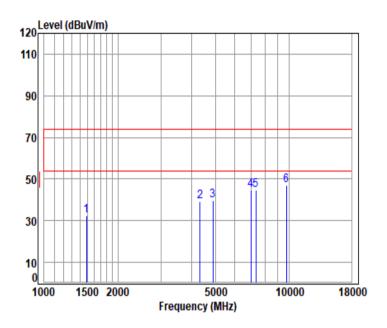


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BLE_2M_TX_CH_19_Horizontal-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2440 TX RSE

: BLE 2M ANT25

			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	
		4400 440	7 00	24.04	F4 70	F4 00	22.20	74.00	44 60	
1		1490.142	7.22	24.94	54.70	54.92	32.38	74.00	-41.62	peak
2		4329.354	8.48	31.30	55.83	55.34	39.29	74.00	-34.71	peak
3		4880.000	8.98	32.16	56.22	54.68	39.60	74.00	-34.40	peak
4		6995.172	10.96	36.19	56.70	54.33	44.78	74.00	-29.22	peak
5		7320.000	11.12	36.74	56.44	53.41	44.83	74.00	-29.17	peak
6	pp	9760.000	12.84	38.60	54.32	49.72	46.84	74.00	-27.16	peak



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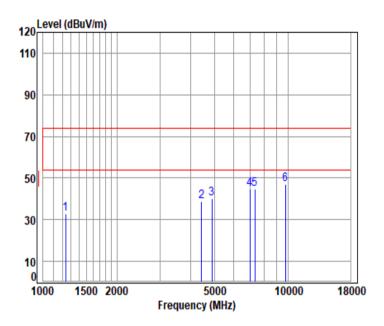


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BLE_2M_TX_CH_19_Vertical-Ant25



Condition: 3m VERTICAL Job No : 04609WM Mode : 2440 TX RSE

: BLE 2M ANT25

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1238.483	7.17	25.30	54.70	54.88	32.65	74.00	-41.35	peak
2	4443.453	8.55	31.37	55.91	54.94	38.95	74.00	-35.05	peak
3	4880.000	8.98	32.16	56.22	55.17	40.09	74.00	-33.91	peak
4	6974.982	10.95	36.15	56.71	54.44	44.83	74.00	-29.17	peak
5	7320.000	11.12	36.74	56.44	53.32	44.74	74.00	-29.26	peak
6 pp	9760.000	12.84	38.60	54.32	49.80	46.92	74.00	-27.08	peak



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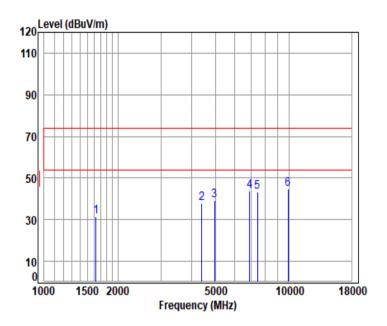


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BLE_2M_TX_CH_39_Horizontal-Ant25



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 TX RSE

: BLE 2M ANT25

			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		1629.825	7.13	25.04	54.70	54.03	31.50	74.00	-42.50	peak
2		4405.090								•
3		4960.000	9.07	32.20	56.27	54.42	39.42	74.00	-34.58	peak
4		6894.806	10.94	36.18	56.72	53.41	43.81	74.00	-30.19	peak
5		7440.000	11.08	36.78	56.35	52.06	43.57	74.00	-30.43	peak
6	pp	9920.000	12.73	38.90	54.17	47.40	44.86	74.00	-29.14	peak



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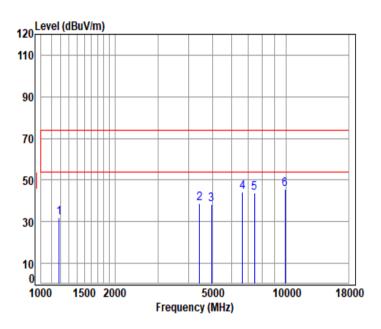


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BLE_2M_TX_CH_39_Vertical-Ant25



Condition: 3m VERTICAL Job No : 04609WM Mode : 2480 TX RSE

: BLE 2M ANT25

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936			54.70					•
2	4430.628	8.55	31.32	55.90	54.70	38.67	74.00	-35.33	peak
3	4960.000	9.07	32.20	56.27	53.50	38.50	74.00	-35.50	peak
4	6640.542	10.85	35.44	56.77	54.62	44.14	74.00	-29.86	peak
5	7440.000	11.08	36.78	56.35	52.16	43.67	74.00	-30.33	peak
6	pp 9920.000								



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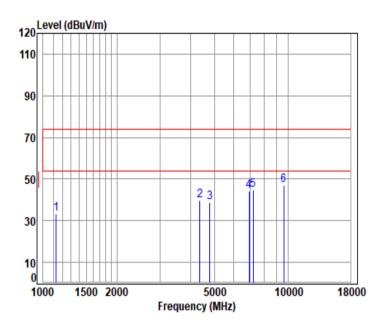


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BLE_1M_TX_CH_00_Horizontal-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 TX RSE

: BLE 1M ANT22

			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		1132.340	7.13	25.47	54.70	55.46	33.36	74.00	-40.64	peak
2		4367.058	8.51	31.27	55.86	55.87	39.79	74.00	-34.21	peak
3		4804.000	8.90	31.92	56.16	54.27	38.93	74.00	-35.07	peak
4		6934.778	10.95	36.13	56.71	54.02	44.39	74.00	-29.61	peak
5		7206.000	11.10	36.60	56.54	53.47	44.63	74.00	-29.37	peak
6	pp	9608.000	12.38	38.78	54.45	50.11	46.82	74.00	-27.18	peak



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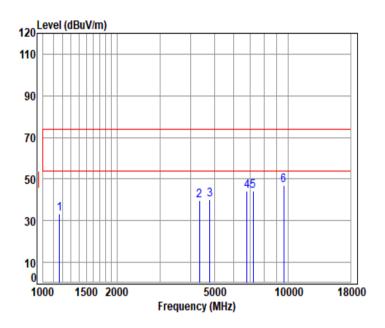


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BLE_1M_TX_CH_00_Vertical-Ant22



Condition: 3m VERTICAL Job No : 04609WM Mode : 2402 TX RSE

: BLE 1M ANT22

			±111 /111	122						
			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		1165.546	7.16	25.37	54.70	55.27	33.10	74.00	-40.90	peak
2		4354.454	8.50	31.29	55.85	55.92	39.86	74.00	-34.14	peak
3		4804.000	8.90	31.92	56.16	55.66	40.32	74.00	-33.68	peak
4		6795.879	10.97	35.88	56.74	54.07	44.18	74.00	-29.82	peak
5		7206.000	11.10	36.60	56.54	52.95	44.11	74.00	-29.89	peak
6	pp	9608.000	12.38	38.78	54.45	50.19	46.90	74.00	-27.10	peak



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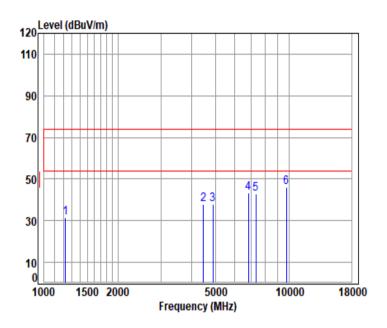


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BLE_1M_TX_CH_19_Horizontal-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2440 TX RSE

: BLE 1M ANT22

			±111 /411	122						
			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	1220.714	7.18	25.30	54.70	53.58	31.36	74.00	-42.64	peak
	2	4469.214	8.55	31.48	55.93	53.62	37.72	74.00	-36.28	peak
	3	4880.000	8.98	32.16	56.22	52.85	37.77	74.00	-36.23	peak
4	4	6835.278	10.97	35.97	56.73	53.20	43.41	74.00	-30.59	peak
	5	7320.000	11.12	36.74	56.44	51.28	42.70	74.00	-31.30	peak
-	5 pp	9760.000	12.84	38.60	54.32	48.93	46.05	74.00	-27.95	peak



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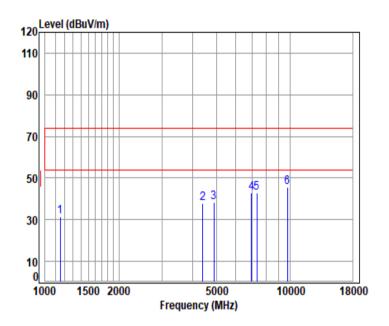


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BLE_1M_TX_CH_19_Vertical-Ant22



Condition: 3m VERTICAL Job No : 04609WM Mode : 2440 TX RSE

: BLE 1M ANT22

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	7.15	25.40	54.70	53.84	31.69	74.00	-42.31	peak
2	4405.090	8.54	31.22	55.88	54.12	38.00	74.00	-36.00	peak
3	4880.000	8.98	32.16	56.22	53.62	38.54	74.00	-35.46	peak
4	6954.852	10.95	36.11	56.71	52.43	42.78	74.00	-31.22	peak
5	7320.000	11.12	36.74	56.44	51.38	42.80	74.00	-31.20	peak
6 p	9760.000	12.84	38.60	54.32	48.44	45.56	74.00	-28.44	peak



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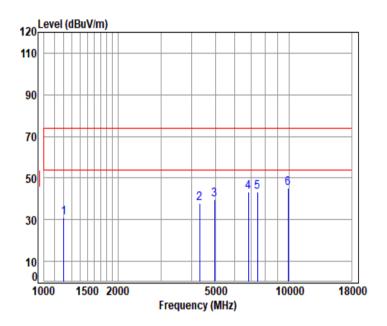


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BLE_1M_TX_CH_39_Horizontal-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 TX RSE

: BLE 1M ANT22

			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		1203.199	7.19	25.30	54.70	53.36	31.15	74.00	-42.85	peak
2		4316.859	8.47	31.30	55.82	54.09	38.04	74.00	-35.96	peak
3		4960.000	9.07	32.20	56.27	54.89	39.89	74.00	-34.11	peak
4		6815.551	10.97	35.93	56.74	53.37	43.53	74.00	-30.47	peak
5		7440.000	11.08	36.78	56.35	51.99	43.50	74.00	-30.50	peak
6	pp	9920.000	12.73	38.90	54.17	47.51	44.97	74.00	-29.03	peak



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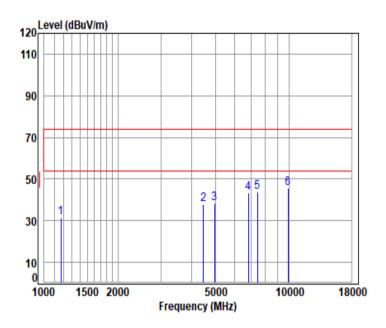


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BLE_1M_TX_CH_39_Vertical-Ant22



Condition: 3m VERTICAL Job No : 04609WM Mode : 2480 TX RSE

: BLE 1M ANT22

			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		1168.920	7.16	25.36	54.70	53.69	31.51	74.00	-42.49	peak
2		4469.214	8.55	31.48	55.93	53.59	37.69	74.00	-36.31	peak
3		4960.000	9.07	32.20	56.27	53.20	38.20	74.00	-35.80	peak
4		6815.551	10.97	35.93	56.74	53.25	43.41	74.00	-30.59	peak
5		7440.000	11.08	36.78	56.35	52.41	43.92	74.00	-30.08	peak
6	рр	9920.000	12.73	38.90	54.17	48.04	45.50	74.00	-28.50	peak



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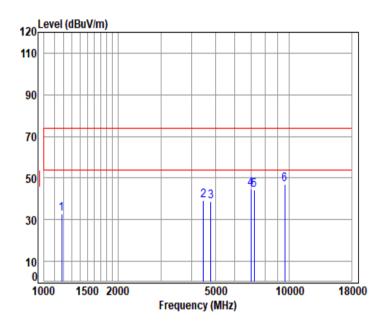


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BLE_2M_TX_CH_00_Horizontal-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2402 TX RSE

: BLE 2M ANT22

			211 /111	122						
			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		1179.100	7.17	25.34	54.70	55.11	32.92	74.00	-41.08	peak
2		4469.214	8.55	31.48	55.93	55.03	39.13	74.00	-34.87	peak
3		4804.000	8.90	31.92	56.16	54.22	38.88	74.00	-35.12	peak
4		6974.982	10.95	36.15	56.71	54.53	44.92	74.00	-29.08	peak
5		7206.000	11.10	36.60	56.54	52.96	44.12	74.00	-29.88	peak
6	pp	9608.000	12.38	38.78	54.45	50.36	47.07	74.00	-26.93	peak



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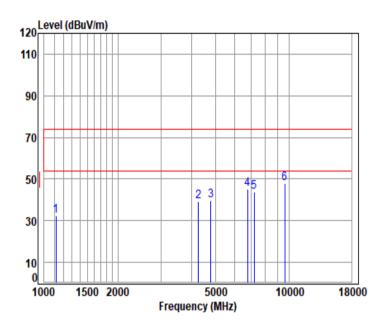


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BLE_2M_TX_CH_00_Vertical-Ant22



Condition: 3m VERTICAL Job No : 04609WM Mode : 2402 TX RSE

: BLE 2M ANT22

			ZI'I AIV	122						
			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		1116.093	7.11	25.54	54.70	54.50	32.45	74.00	-41.55	peak
2		4267.237	8.47	31.17	55.79	55.50	39.35	74.00	-34.65	peak
3		4804.000	8.90	31.92	56.16	54.93	39.59	74.00	-34.41	peak
4		6776.265	10.94	35.81	56.74	55.22	45.23	74.00	-28.77	peak
5		7206.000	11.10	36.60	56.54	52.63	43.79	74.00	-30.21	peak
6	pp	9608.000	12.38	38.78	54.45	51.14	47.85	74.00	-26.15	peak



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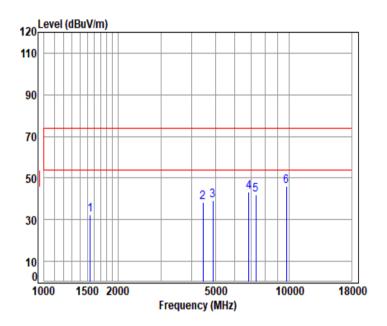


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BLE_2M_TX_CH_19_Horizontal-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2440 TX RSE

: BLE 2M ANT22

			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		1542.733	7.17	24.99	54.70	54.82	32.28	74.00	-41.72	peak
2		4456.315	8.55	31.43	55.92	54.29	38.35	74.00	-35.65	peak
3		4880.000	8.98	32.16	56.22	54.31	39.23	74.00	-34.77	peak
4		6855.063	10.96	36.02	56.73	53.22	43.47	74.00	-30.53	peak
5		7320.000	11.12	36.74	56.44	50.71	42.13	74.00	-31.87	peak
6	pp	9760.000	12.84	38.60	54.32	48.95	46.07	74.00	-27.93	peak



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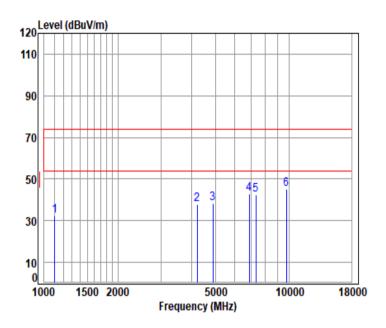


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BLE_2M_TX_CH_19_Vertical-Ant22



Condition: 3m VERTICAL Job No : 04609WM Mode : 2440 TX RSE

: BLE 2M ANT22

		211 711	122						
		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	1103.264	7.10	25.59	54.70	54.43	32.42	74.00	-41.58	peak
2	4218.186	8.50	30.91	55.75	54.09	37.75	74.00	-36.25	peak
3	4880.000	8.98	32.16	56.22	53.34	38.26	74.00	-35.74	peak
4	6874.906	10.95	36.10	56.73	52.66	42.98	74.00	-31.02	peak
5	7320.000								•
6 r	pp 9760.000	12.84	38.60	54.32	48.20	45.32	74.00	-28.68	peak



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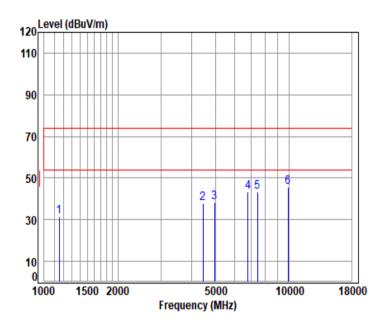


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BLE_2M_TX_CH_39_Horizontal-Ant22



Condition: 3m HORIZONTAL

Job No : 04609WM

Mode : 2480 TX RSE

: BLE 2M ANT22

			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	
4		1153 140	7 15	25 40	F4 70	F2 76	24 64	74.00	42.20	
1		1152.148	/.15	25.40	54.70	55./6	31.61	74.00	-42.39	peak
2		4456.315	8.55	31.43	55.92	53.99	38.05	74.00	-35.95	peak
3		4960.000	9.07	32.20	56.27	53.31	38.31	74.00	-35.69	peak
4		6795.879	10.97	35.88	56.74	53.07	43.18	74.00	-30.82	peak
5		7440.000	11.08	36.78	56.35	51.81	43.32	74.00	-30.68	peak
6	pp	9920.000	12.73	38.90	54.17	48.12	45.58	74.00	-28.42	peak



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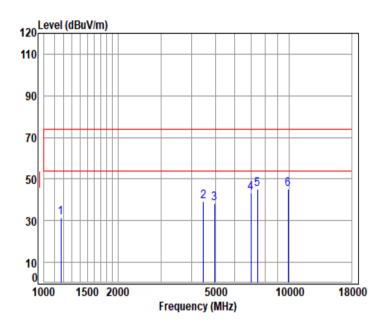


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BLE_2M_TX_CH_39_Vertical-Ant22



Condition: 3m VERTICAL Job No : 04609WM Mode : 2480 TX RSE

: BLE 2M ANT22

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	53.48	31.30	74.00	-42.70	peak
2	4469.214	8.55	31.48	55.93	55.35	39.45	74.00	-34.55	peak
3	4960.000	9.07	32.20	56.27	53.19	38.19	74.00	-35.81	peak
4	6995.172	10.96	36.19	56.70	52.87	43.32	74.00	-30.68	peak
5	7440.000	11.08	36.78	56.35	53.44	44.95	74.00	-29.05	peak
6 pp	9920.000	12.73	38.90	54.17	47.56	45.02	74.00	-28.98	peak



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7.5 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

7.5.1 E.U.T. Operation

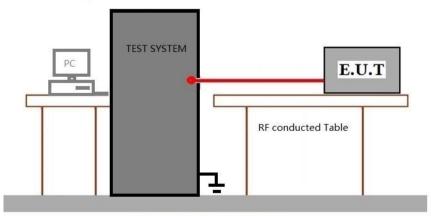
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.0 °C Humidity: 37.9 % RH

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.

7.5.3 Test Setup Diagram



Ground Reference Plane



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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

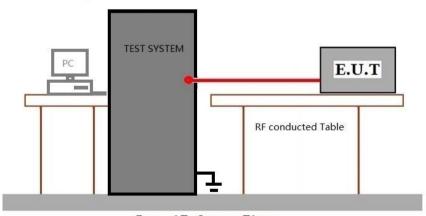
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.0 °C Humidity: 37.9 % 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

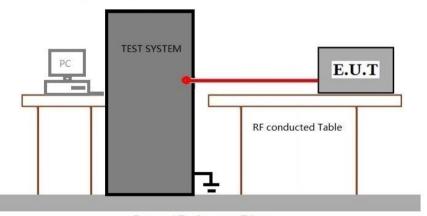
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.0 °C Humidity: 37.9 % 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

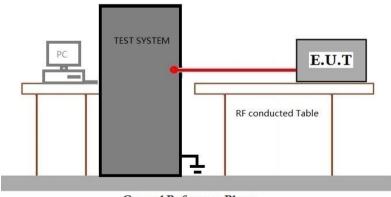
Operating Environment:

Temperature: 23.0 °C Humidity: 37.9 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

11012 1001 initiae 2000 i pineri								
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) ANSI C63.10 (2013) Section 11.11 Test Method:

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

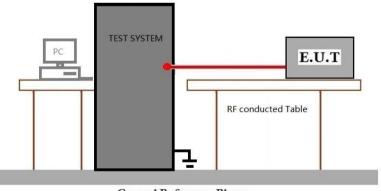
Operating Environment:

Temperature: 23.0 °C Humidity: 37.9 % RH Atmospheric Pressure: 1020 mbar

7.9.2 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.

7.9.3 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

Please refer to SZCR2412004609 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for SZCR2412004609WM.



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant25

	Ant25									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
	2402	2.137	3.125	68.38	1.65	0.03				
1M	1M SISO	2440	2.137	3.125	68.38	1.65	0.03			
		2480	2.137	3.125	68.38	1.65	0.03			
		2402	1.081	2.032	53.20	2.74	0.02			
2M	SISO	2440	1.082	2.033	53.22	2.74	0.02			
		2480	1.082	2.033	53.22	2.74	0.04			



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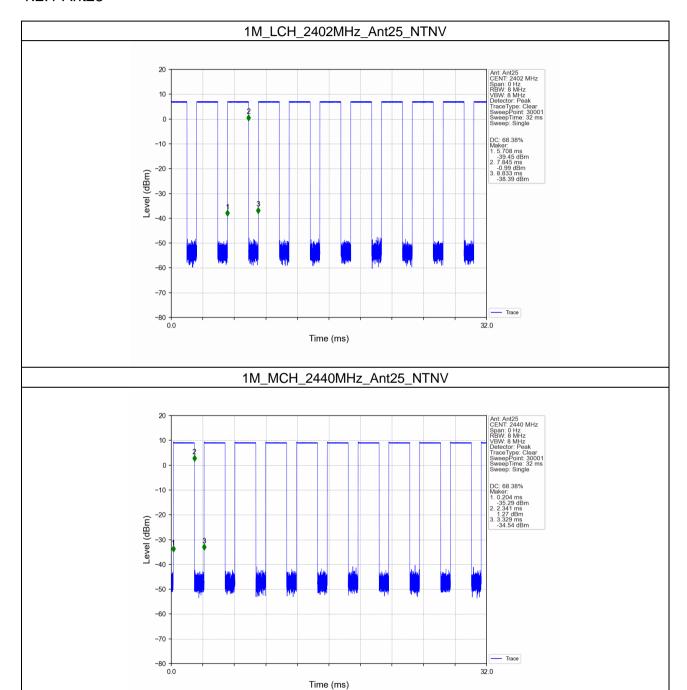
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1.2 Test Graph

1.2.1 Ant25





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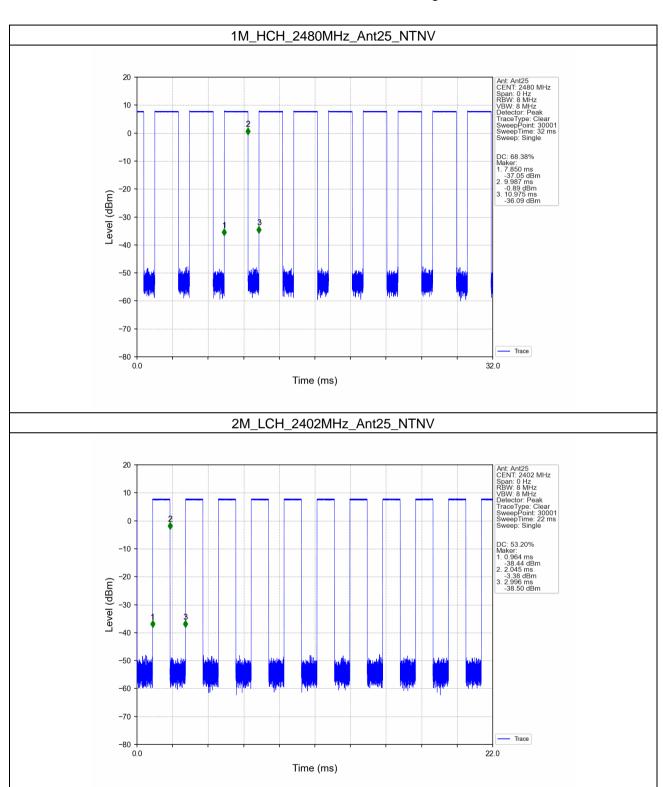
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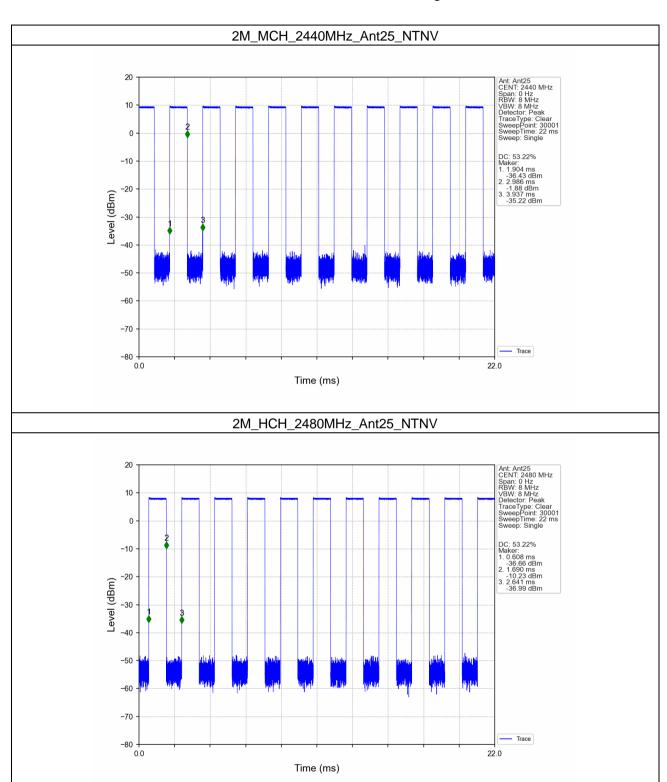
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	A NIT	99% Occupied E	\/oudiat	
			ANT	Result	Limit	Verdict
		2402	25	1.024	/	Pass
1M	SISO	2440	25	1.025	/	Pass
		2480	25	1.026	/	Pass
		2402	25	2.019	/	Pass
2M	SISO	2440	25	2.018	/	Pass
		2480	25	2.014	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANIT	6dB Bandv	Mandiat	
	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	25	0.669	>=0.5	Pass
1M	SISO	2440	25	0.666	>=0.5	Pass
		2480	25	0.663	>=0.5	Pass
	SISO	2402	25	1.166	>=0.5	Pass
2M		2440	25	1.162	>=0.5	Pass
		2480	25	1.158	>=0.5	Pass



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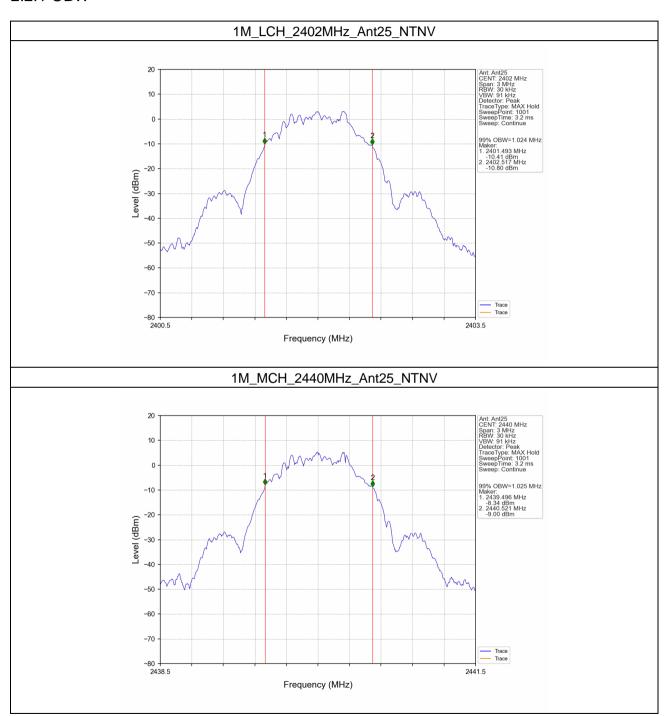
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2.2 Test Graph

2.2.1 OBW





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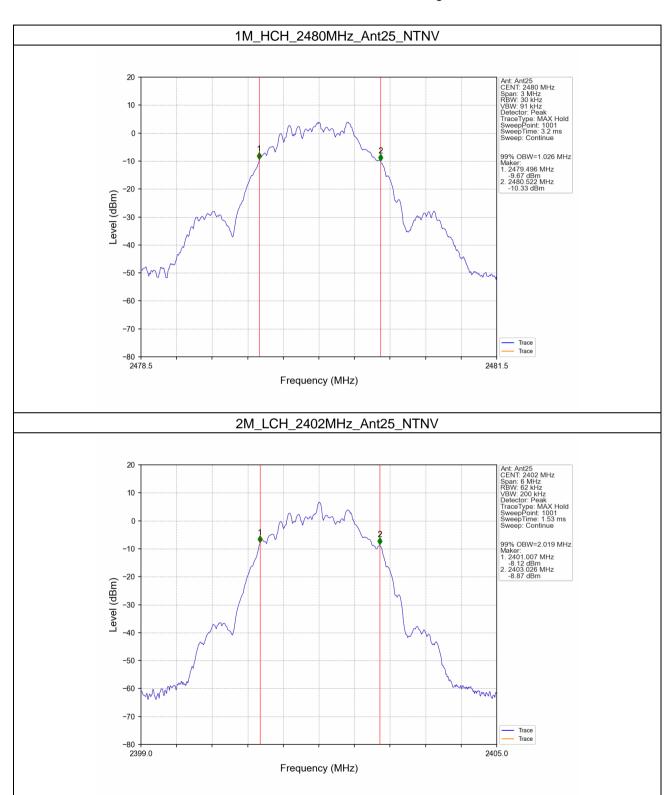
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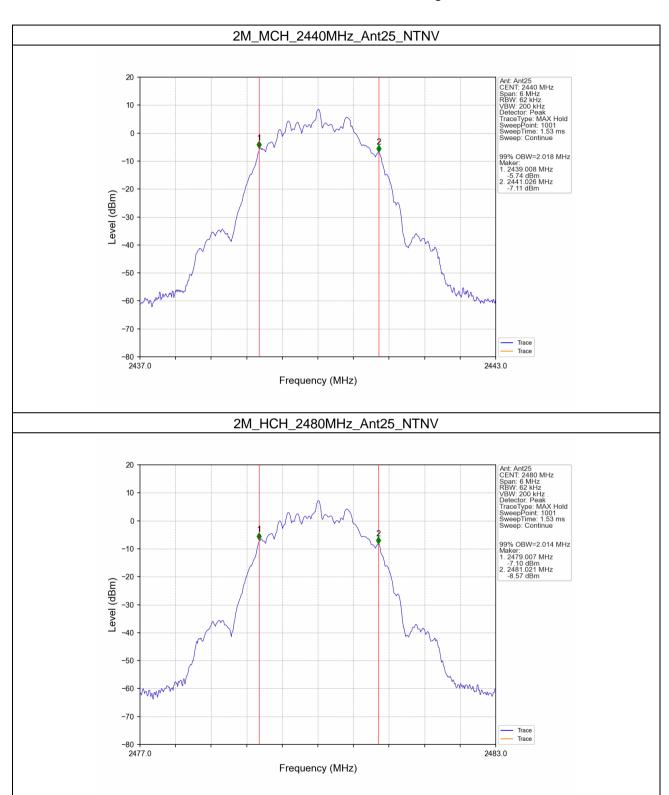
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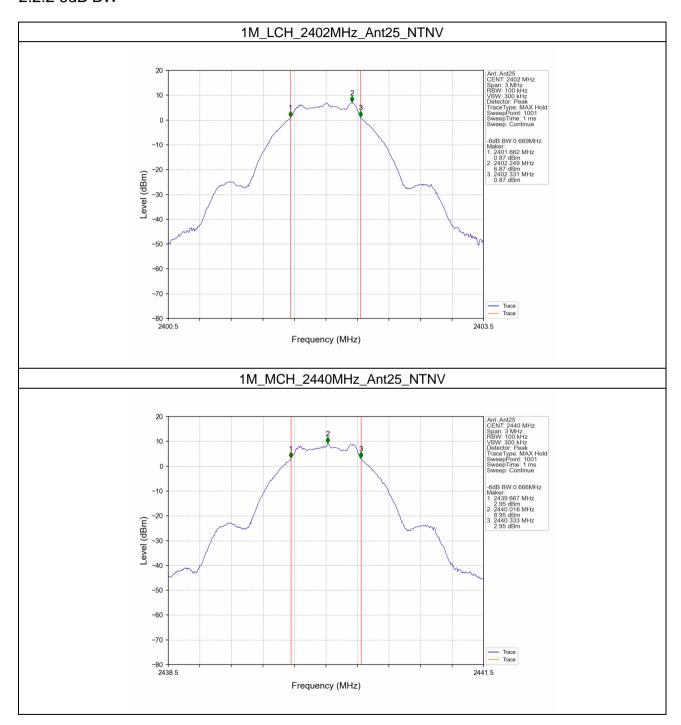


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2.2.2 6dB BW





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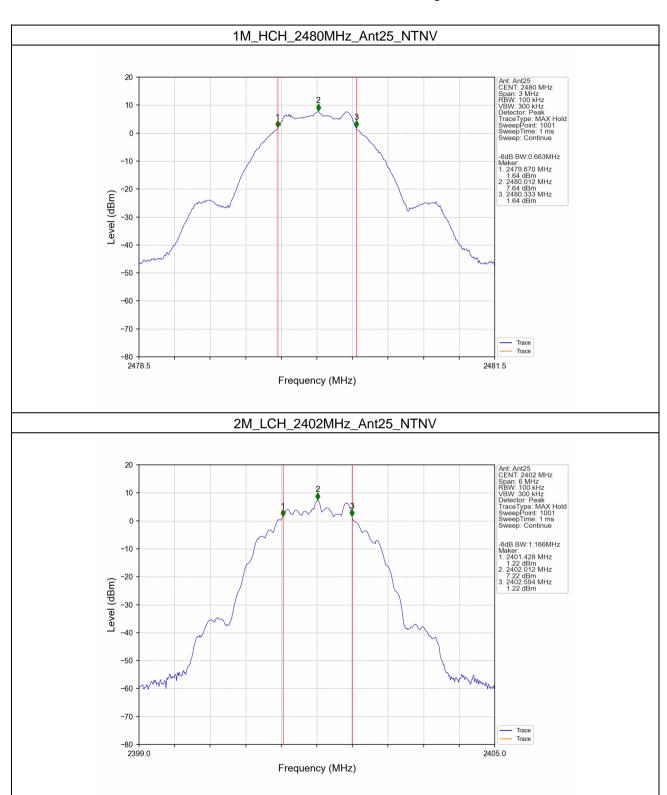
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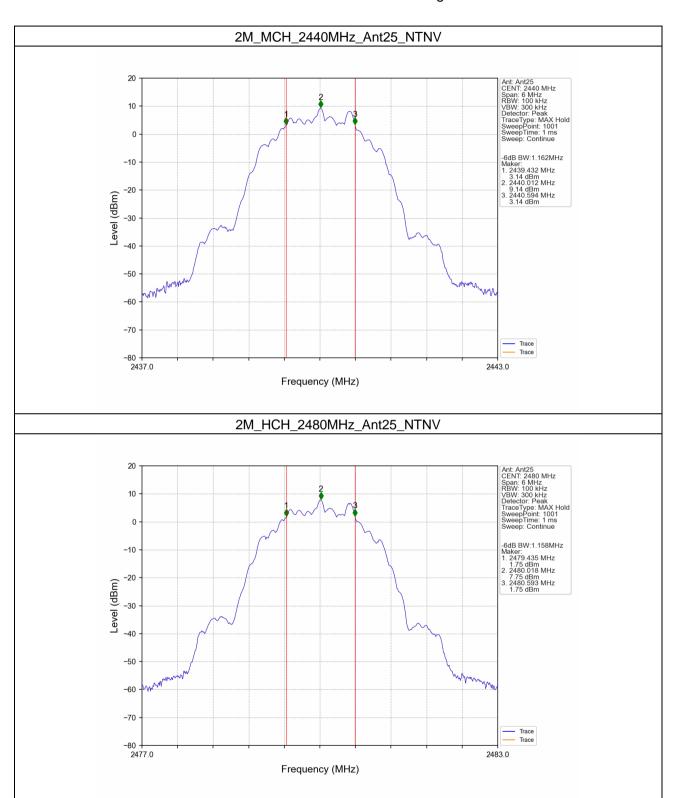
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Peal	\/ordiot				
Mode	Туре	(MHz)	ANT25	ANT22	Limit	Verdict		
		2402	7.23	7.10	<=30	Pass		
1M	SISO	2440	9.39	8.55	<=30	Pass		
		2480	7.96	7.27	<=30	Pass		
		2402	7.64	7.21	<=30	Pass		
2M	SISO	2440	9.55	8.67	<=30	Pass		
		2480	8.13	7.37	<=30	Pass		
Note1: Ant	Note1: Antenna Gain: Ant25: 0.53dBi; Ant22: -1.18dBi;							

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency	Maxin	Manaliat		
	Type	(MHz)	ANT25	ANT22	Limit	Verdict
1M SISO		2402	-8.79	-9.26	<=8	Pass
	SISO	2440	-6.86	-7.70	<=8	Pass
		2480	-8.48	-9.10	<=8	Pass
2M SISO	2402	-11.42	-12.04	<=8	Pass	
	SISO	2440	-9.60	-10.39	<=8	Pass
		2480	-10.97	-11.75	<=8	Pass



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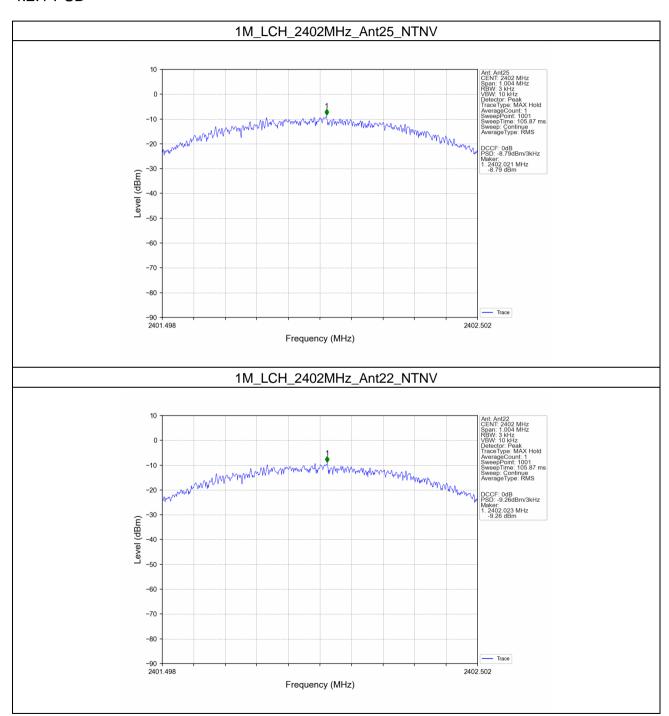
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4.2 Test Graph

4.2.1 PSD





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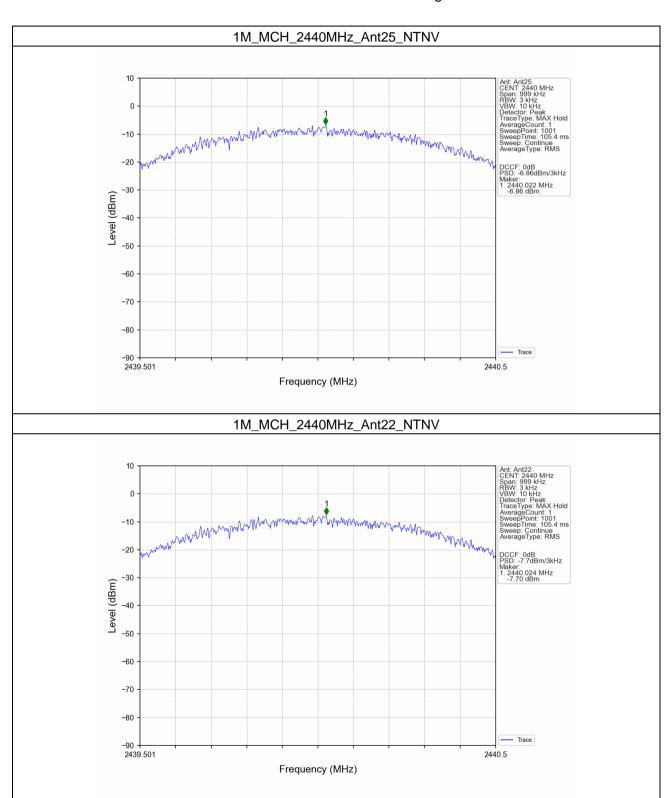
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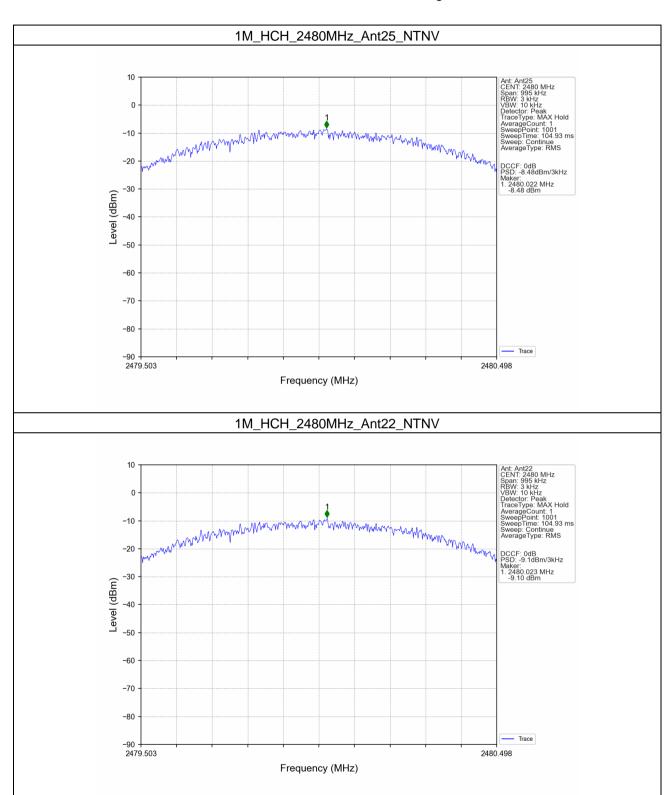
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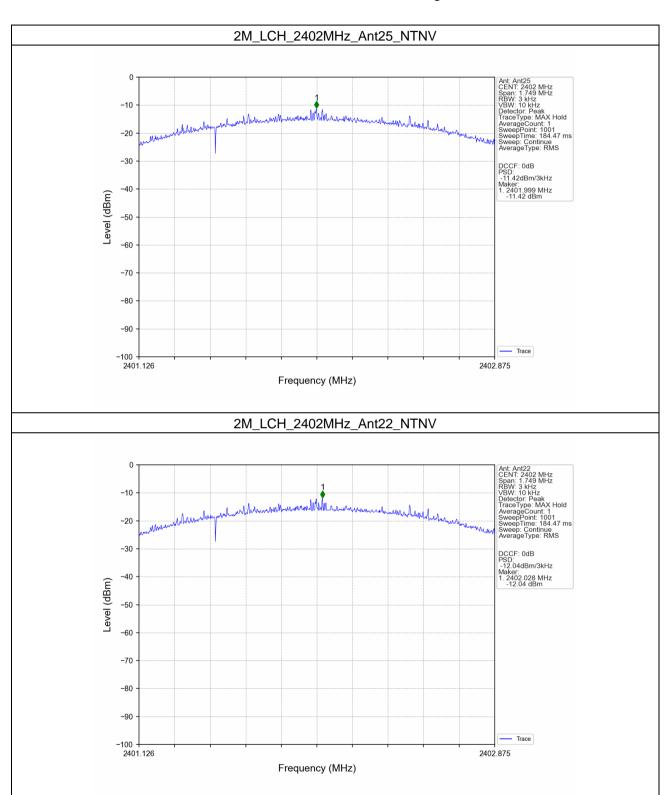
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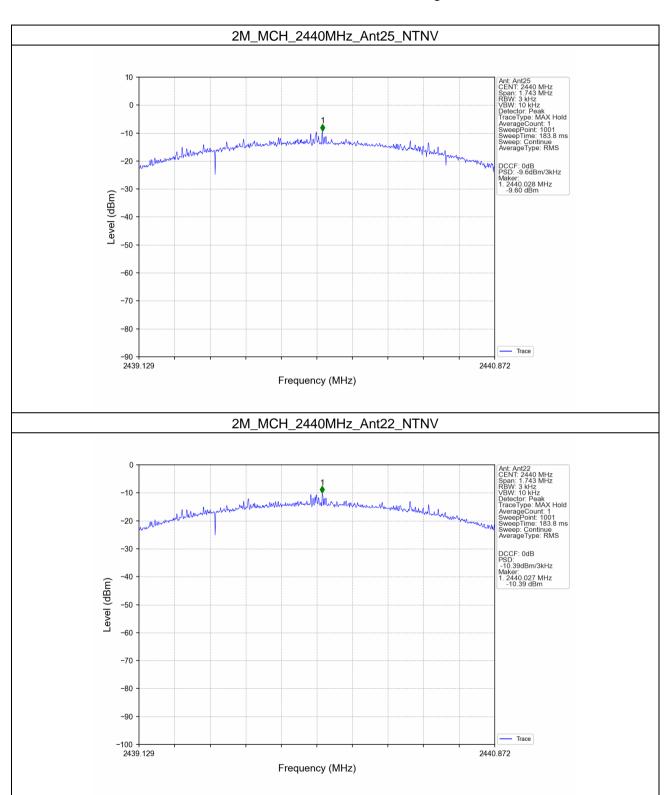
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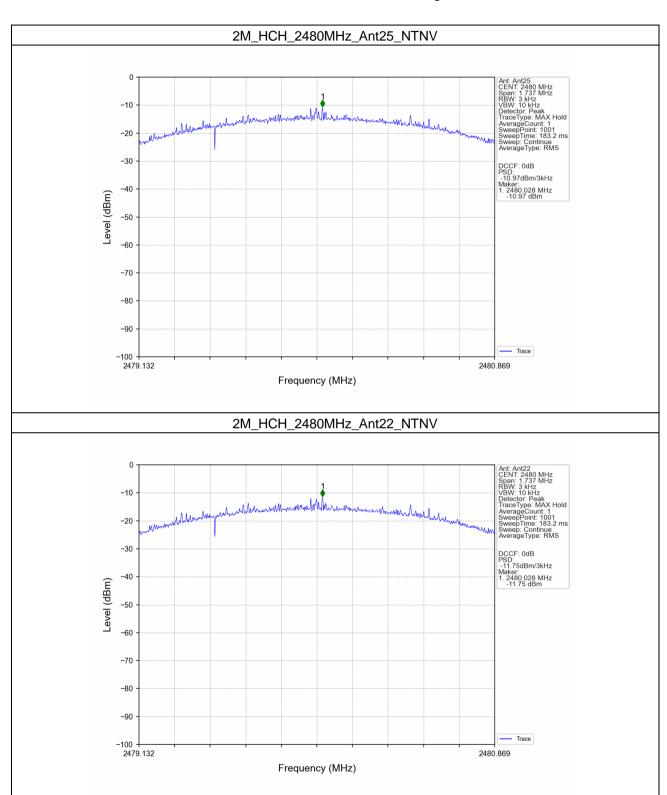
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	25	6.96
		2402	22	6.75
4.54	CICO	2440	25	9.02
1M	SISO	2440	22	8.28
		2480	25	7.61
			22	6.92
	SISO	2402	25	7.11
		2402	22	6.71
OM.		2440	25	9.09
2M		2440	22	8.20
		2490	25	7.69
		2480	22	6.89

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
		0.400	25	9.02	-10.98	Pass
		2402	22	8.28	-11.72	Pass
4 1 1	CICO	2440	25	9.02	-10.98	Pass
1M	SISO		22	8.28	-11.72	Pass
			25	9.02	-10.98	Pass
			22	8.28	-11.72	Pass
		2402	25	9.09	-10.91	Pass
	SISO	2402	22	8.20	-11.80	Pass
014		SISO 2440	25	9.09	-10.91	Pass
2M			22	8.20	-11.80	Pass
		2400	25	9.09	-10.91	Pass
		2480	22	8.20	-11.80	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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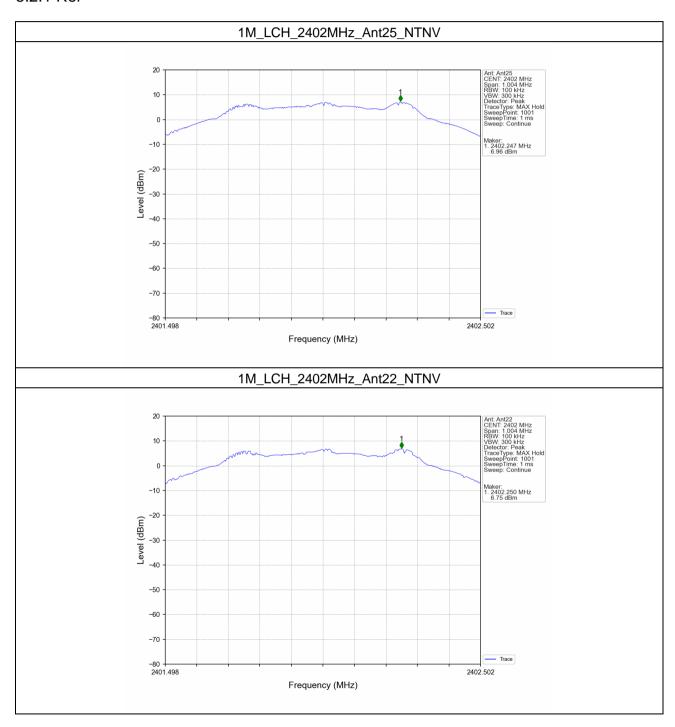
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5.2 Test Graph

5.2.1 Ref





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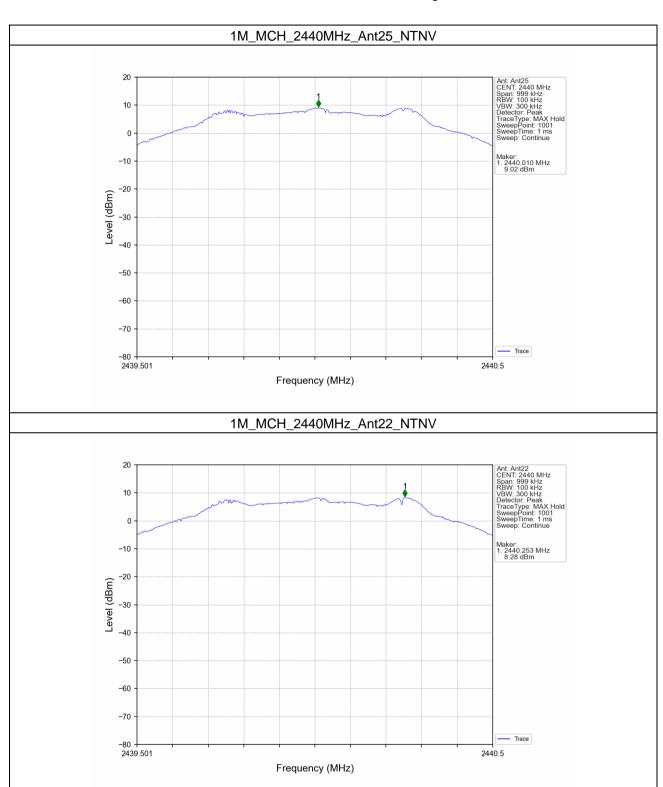
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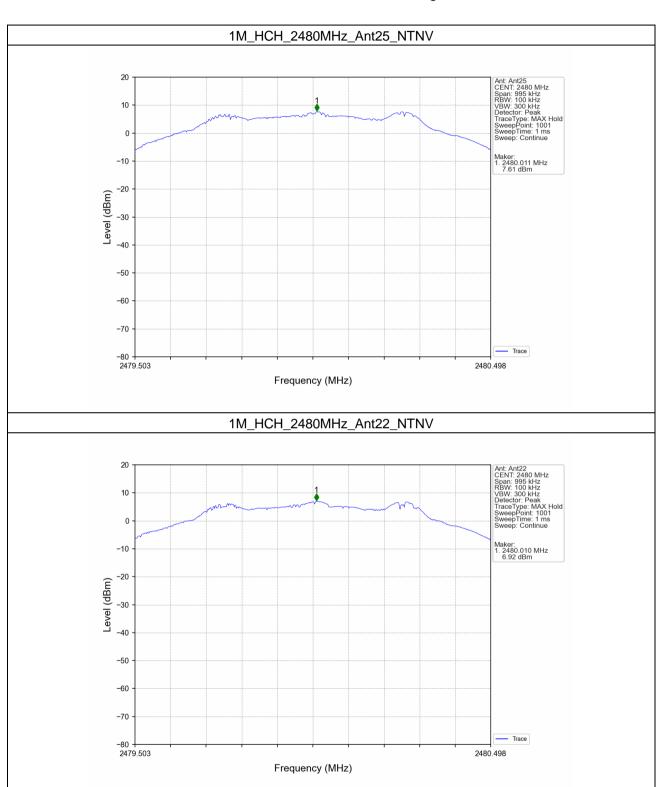
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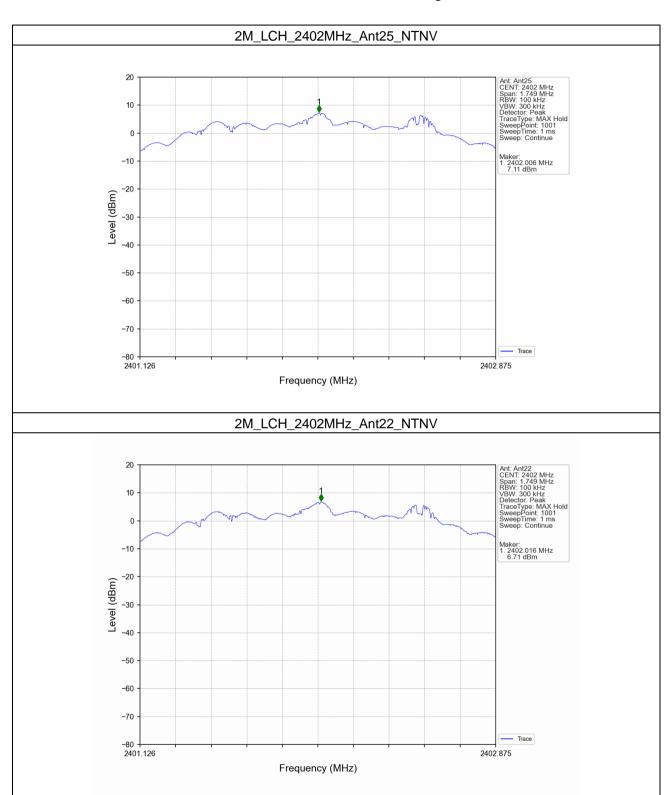
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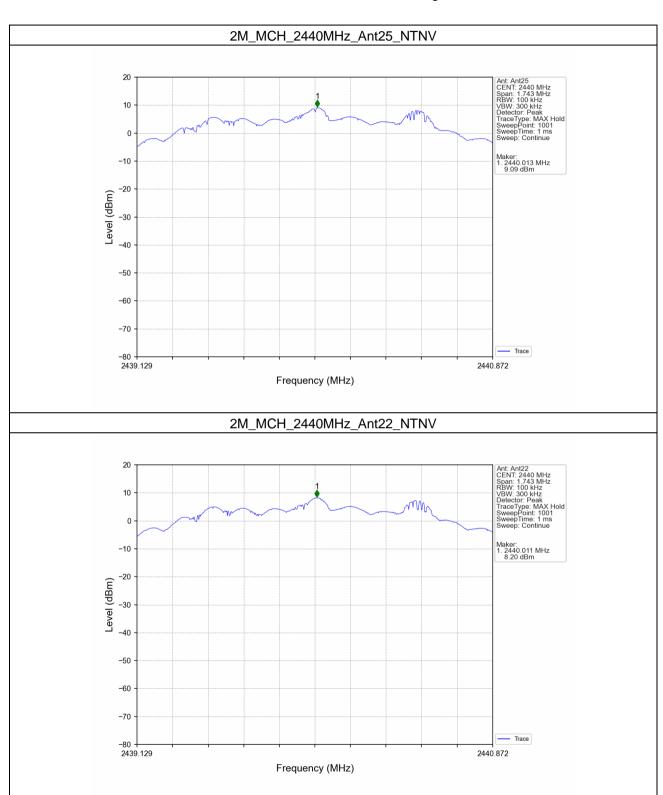
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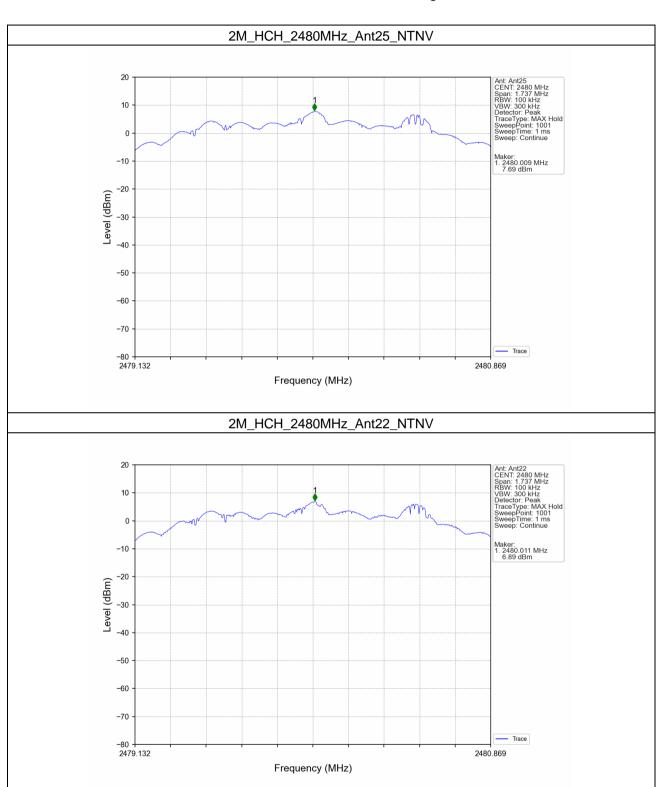
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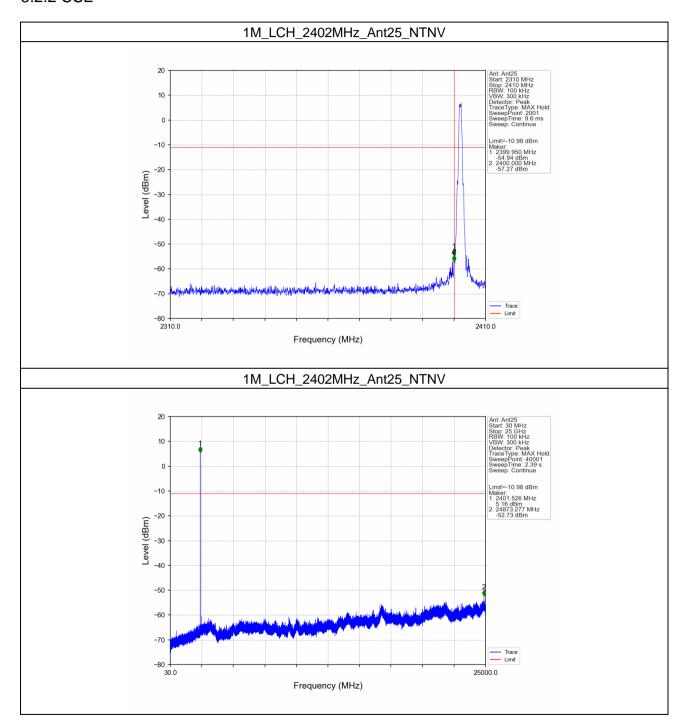


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5.2.2 CSF





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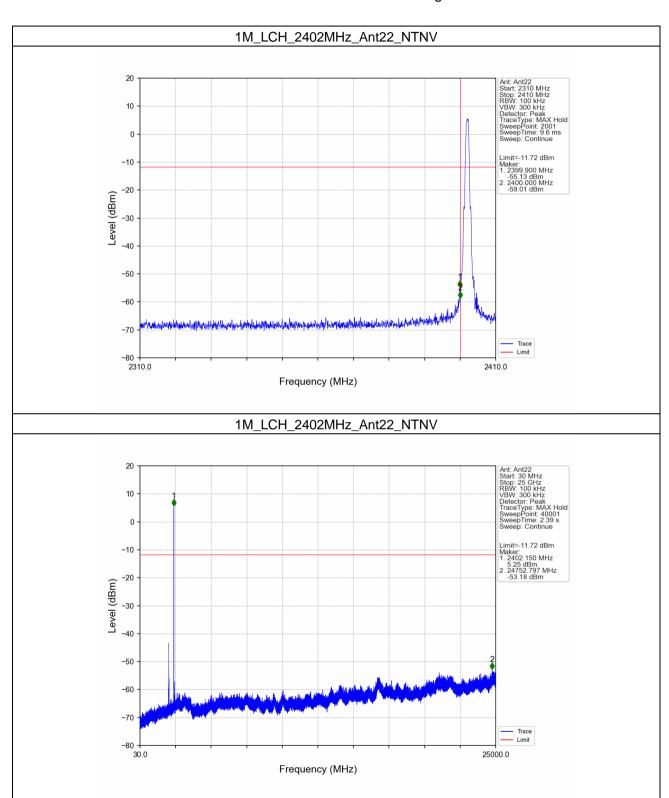
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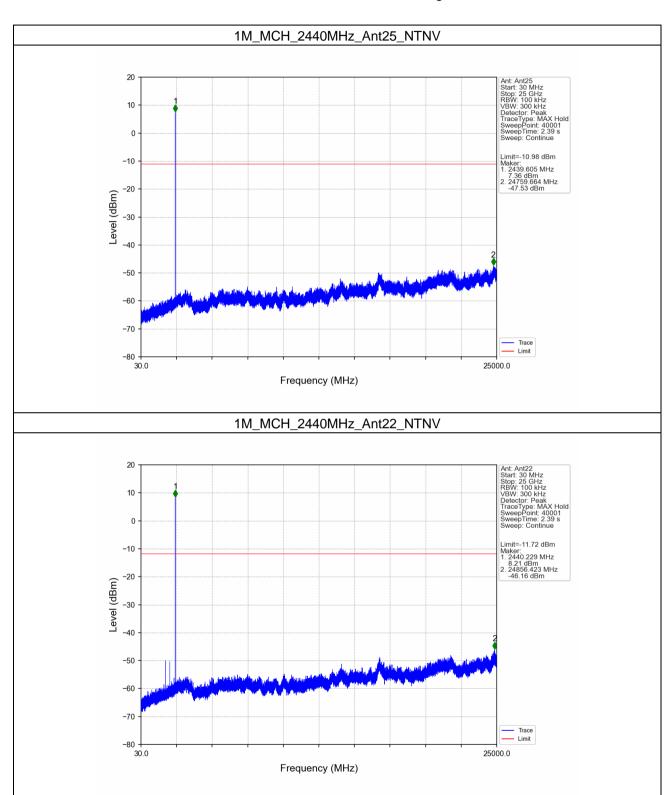
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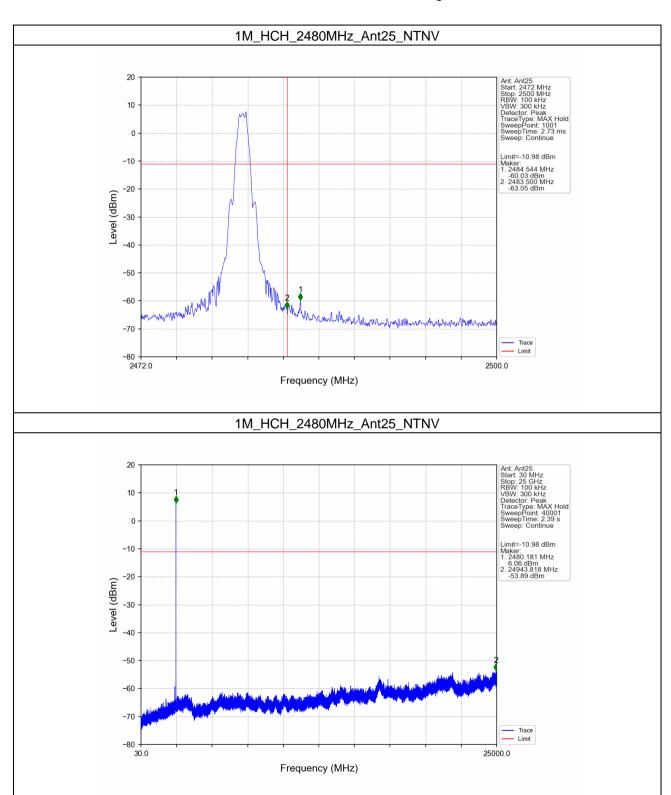
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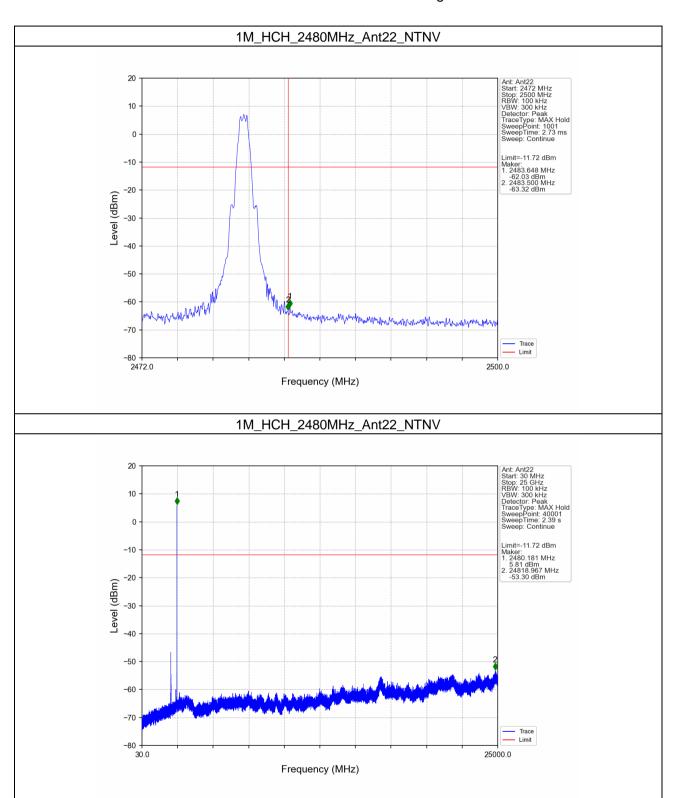
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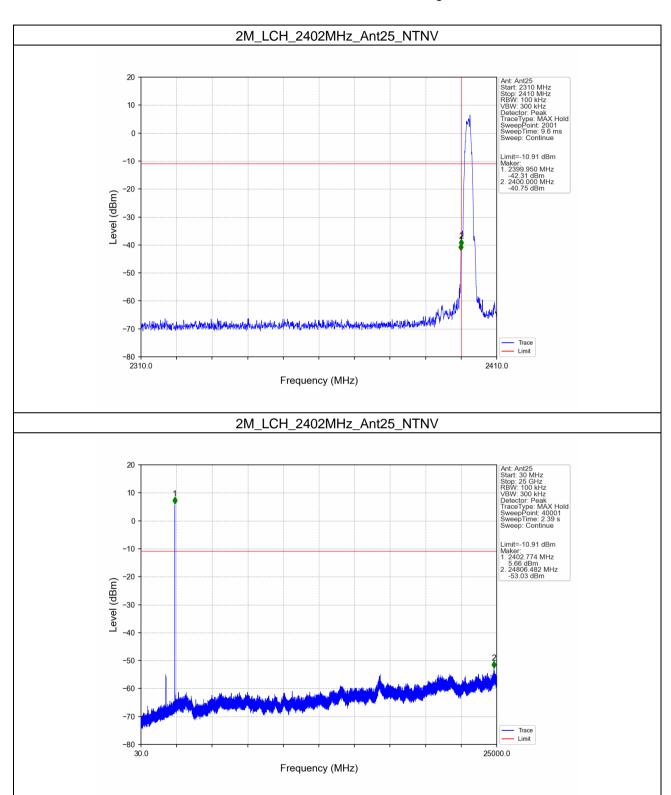
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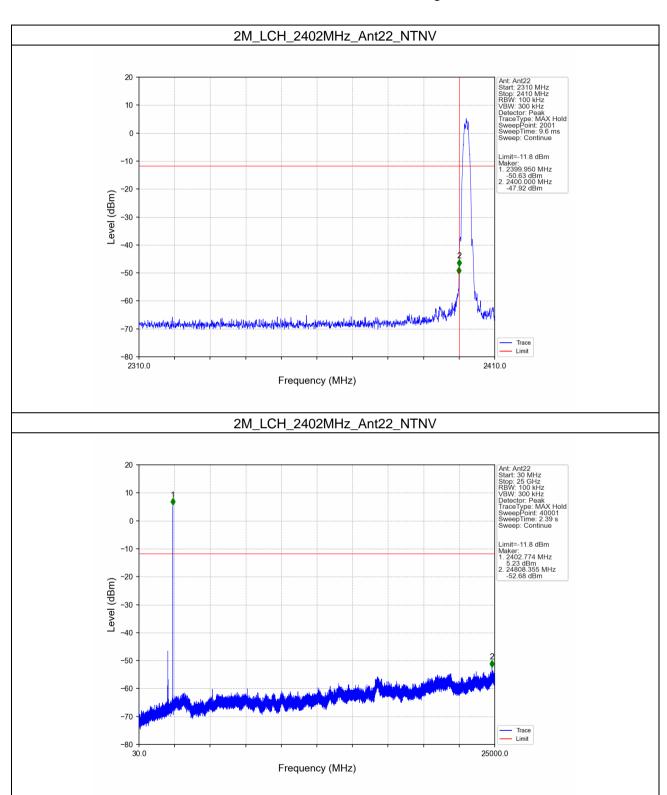
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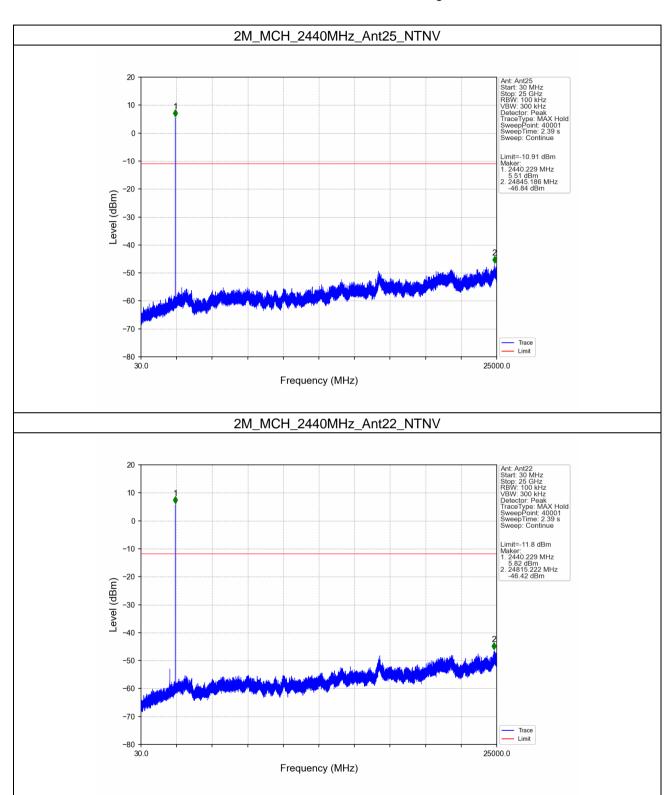
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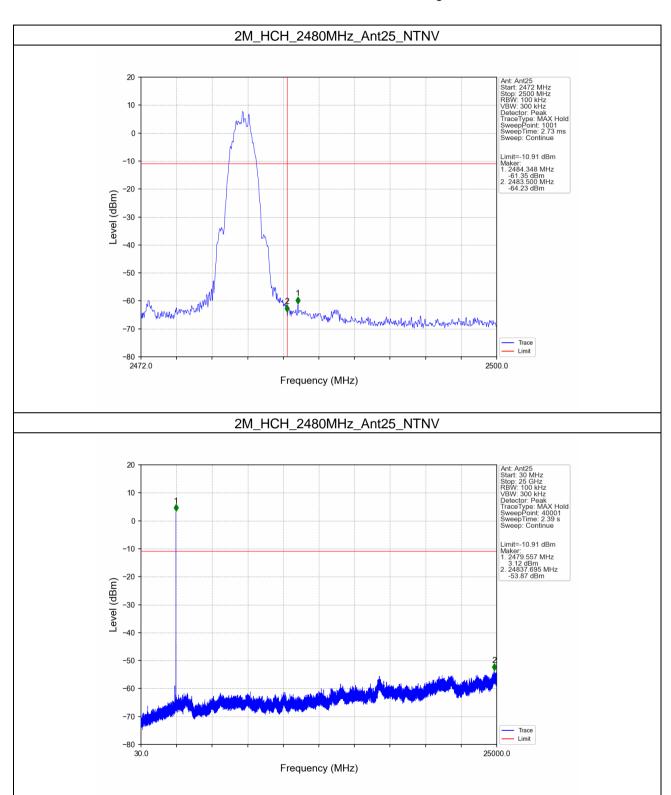
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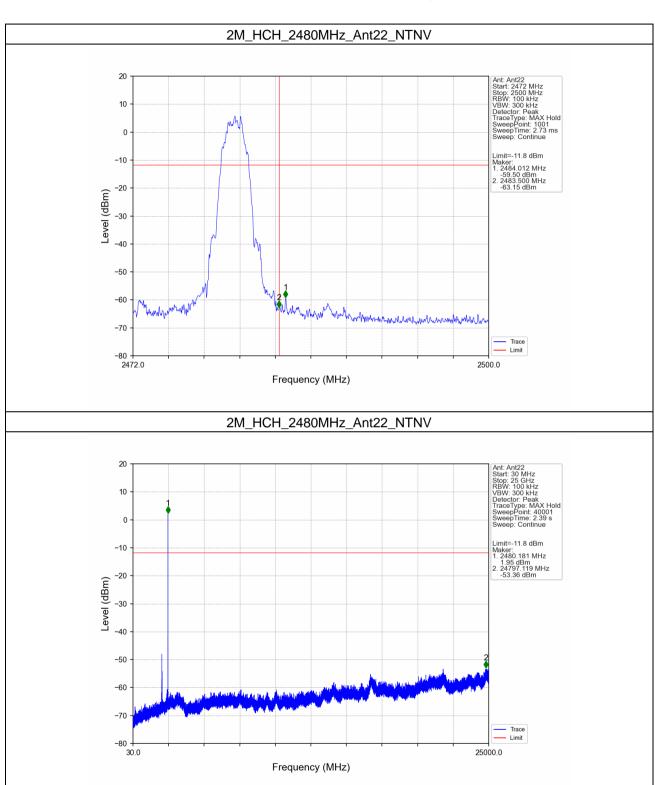
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