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FCC TEST REPORT FCC ID:2BFDF-ML903

Report Number.....: ZHT-240311029E

Date of Test...... Mar. 11, 2024 to Mar. 20, 2024

Date of issue...... Mar. 20, 2024

Test Result PASS

Testing Laboratory...... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address Room 104, Building 1, Yibaolai Industrial Park, Qiaotou

Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong,

China

Applicant's name: Qingdao Thunderobot Technology Co.,Ltd.

Manufacturer's name: Qingdao Thunderobot Technology Co.,Ltd.

Test specification:

Standard FCC CFR Title 47 Part 15 Subpart C Section 15.247

RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 Feb 2021

Test procedure ANSI C63.10:2013

Non-standard test method: N/A

This device described above has been tested by ZHT, and the test results show that the equipment under test (EUT) is in compliance with the requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: Thunderobot three-mode gaming mouse

Trademark THUNDEROBOT

Model/Type reference ML903, ML901 Black, ML901 White, ML903 SE Black,

ML903 SE White, ML903 Black, ML903 White, ML903 4K Black,

ML903 4K White

The models are identical in circuit, only different on the model names, size and shape. So the test data of ML903 can represent

the remaining models.

Ratings...... DC 3.7V by battery or DC 5V by USB





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Testing procedure and testing location:				
Testing Laboratory	: Guangd	ong Zhonghan Tes	sting Technolo	ogy Co., Ltd.
Address	Commur	04, Building 1, Yibad nity, Fuhai Street, Ba ong, China	olai Industrial P ao'an District, S	Park, Qiaotou Shenzhen,
Tested by (name + signature)	···· [:] <u>Kimi Lu</u>	5	Kimi	Lu
Reviewer (name + signature)	···· Baret Wu	ı	Bans	.Wu
E E				
Approved (name + signature)	: Levi Lee	<u>-</u>	Pen	ila
15				





















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1. VERSION

Report No.	Version	Description	Approved
ZHT-240311029E	Rev.01	Rev.01 Initial issue of report	
115	15	46	15

(D)			







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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C RSS-247 Issue 3					
Standard Section	Test Item	Judgment	Remark		
FCC part 15.203/15.247 (b)(4) RSS-Gen 6.8	Antenna requirement	PASS			
FCC part 15.207 RSS-Gen 8.8	AC Power Line Conducted Emission	PASS			
FCC part 15.247 (b)(3) RSS 247 5.4 (d)	Conducted Peak Output Power	PASS			
FCC part 15.247 (a)(2) RSS 247 5.2(a) RSS GEN	Channel Bandwidth& 99% OCB	PASS			
FCC part 15.247 (e) RSS 247 5.2(b)	Power Spectral Density	PASS	1 5		
FCC part 15.247(d) RSS-Gen 8.10 RSS-247 5.5	Band Edge	PASS			
FCC part 15.205/15.209 RSS-Gen 8.9 RSS-Gen 8.10	Spurious Emission	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report































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2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.

Add.: Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941 Designation Number: CN0325

IC Registered No.: 29832 CAB identifier: CN0143

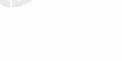




2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF conducted power	±0.16dB
3	Conducted spurious emissions	±0.21dB
4	All radiated emissions (9k-30MHz)	±4.68dB
5	All radiated emissions (<1G)	±4.68dB
6	All radiated emissions (>1G)	±4.89dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	Occupied Bandwidth	±4.96%



















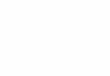


















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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Thunderobot three-mode gan	ming mouse	
Test Model No.:	ML903	15)	15
Hardware Version:	V1.0		
Software Version:	V1.0		
Sample(s) Status:	Engineer sample	41	5
Operation Frequency:	2402MHz~2480MHz	C	
Channel Numbers:	40		
Channel Separation:	2MHz	20	4.4
Modulation Type:	GFSK	(D)	(1)
Antenna Type:	Chip antenna		
Antenna gain:	2.78dBi		- 20
Power supply:	DC 3.7V by battery or DC 5V	by USB)







































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				No.				
Operation	Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz	
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz	
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz	
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz	
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz	
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz	
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz	
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz	
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz	
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz	

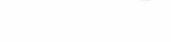
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode	
Remark: EUT use new ba	attery during the test, the test voltage was tuned from 85% to 115% of t	the
nominal rated cumply volt	age, and found that the worst ages was under the naminal rated supply	

nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.













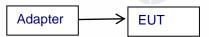






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3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

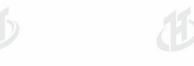
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Adapter	N/A	HW-059200CHQ	N/A	AE
)	(D)	
		1	45	41	
	(D)			V

Item	Shielded Type	Ferrite Core	Length	Note	
1					74)
		C.			

Note:

- The support equipment was authorized by Declaration of Confirmation. (1)
- (2)For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3)The test software is the RTLBluetooth Test tool which can set the EUT into the individual test modes.TX Power: default





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3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS Radiation Test equipment

Item	Equipment	Manufacturer	Model	Instrument	Last Cal.	Next Cal.
				number		
1	Receiver	R&S	ESCI	ZH-E005	May 12, 2023	May 11, 2024
2	Loop antenna	EMCI	LAP600	ZH-E036	May 12, 2023	May 11, 2024
3	Amplifier	Schwarzbeck	BBV 9743 B	ZH-E019	May 12, 2023	May 11, 2024
4	Amplifier	Schwarzbeck	BBV 9718 B	ZH-E021	May 12, 2023	May 11, 2024
5	Bilog Antenna	Schwarzbeck	VULB9162	ZH-E017	May 17, 2023	May 16, 2024
6	Horn Antenna	Schwarzbeck	BBHA9120D	ZH-E020	May 17, 2023	May 16, 2024
7	Horn Antenna	A.H.SYSTEM S	SAS574	ZH-E062	May 12, 2023	May 11, 2024
8	Amplifier	AEROFLEX	100KHz-40GHz	ZH-E063	May 12, 2023	May 11, 2024
9	Spectrum Analyzer	R&S	FSV40	ZH-E064	May 12, 2023	May 11, 2024
10	CDNE	Schwarzbeck	CDNE M2 + CDNE M3	ZH-E029	May 12, 2023	May 11, 2024
11	966 Anechoic Chamber	EMToni	9m6m6m	ZH-E001	Nov. 25, 2021	Nov. 24, 2024
12	Spectrum Analyzer	KEYSIGHT	N9020A	ZH-E032	May 12, 2023	May 11, 2024
13	WIDBAND RADIO COMMUNICATIO N TESTER	R&S	CMW500	ZH-E033	May 12, 2023	May 11, 2024
14	Single Generator	Agilent	N5182A	ZH-E034	May 12, 2023	May 11, 2024
15	Power Sensor	MWRFtest	MW100-RFCB	ZH-E066	May 12, 2023	May 11, 2024
16	Audio analyzer	R&S	UPL	ZH-E067	May 12, 2023	May 11, 2024
17	Single Generator	R&S	SMB100A	ZH-E068	May 12, 2023	May 11, 2024
18	Power Amplifier Shielding Room	EMToni	2m3m3m	ZH-E003	Nov. 25, 2021	Nov. 24, 2024























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Conduction Test equipment

Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.		
Receiver	R&S	ESCI	ZH-E005	May 12, 2023	May 11, 2024		
LISN	R&S	ENV216	ZH-E006	May 12, 2023	May 11, 2024		
ISN CAT 6	Schwarzbeck	NTFM 8158	ZH-E012	May 12, 2023	May 11, 2024		
ISN CAT 5	Schwarzbeck	CAT5 8158	ZH-E013	May 12, 2023	May 11, 2024		
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	ZH-E014	May 12, 2023	May 11, 2024		
Current Transformer Clamp	Schwarzbeck	SW 9605	ZH-E015	May 12, 2023	May 11, 2024		
CE Shielding Room	EMToni	9m4m3m	ZH-E002	Nov. 25, 2021	Nov. 24, 2024		

Conducted Test equipment

Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.
Spectrum Analyzer	KEYSIGHT	N9020A	ZH-E032	May 12, 2023	May 11, 2024
Single Generator	Agilent	N5182A	ZH-E034	May 12, 2023	May 11, 2024









4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207; RSS-Gen 8.8
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

	Limit (dBuV)				
FREQUENCY (MHz)	QP	AVG			
0.15 -0.5	66 - 56 *	56 - 46 *			
0.50 -5.0	56.00	46.00			
5.0 -30.0	60.00	50.00			

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



















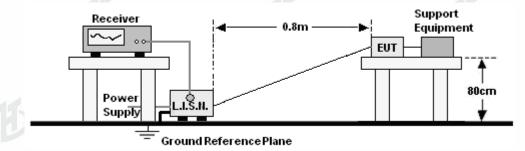


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B

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4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



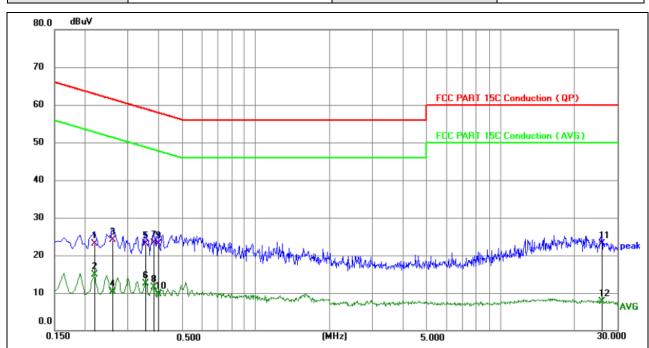








Temperature:	24.3℃	Relative Humidity:	50%
Pressure:	101kPa	Phase :	
Test Voltage:	AC 120V/60Hz		



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
	1	0.2174	13.12	9.91	23.03	62.92	-39.89	QP	Р		1
	2	0.2174	4.93	9.91	14.84	52.92	-38.08	AVG	Р		1
	3	0.2580	14.23	9.91	24.14	61.50	-37.36	QP	Р		
	4	0.2580	0.40	9.91	10.31	51.50	-41.19	AVG	Р		
	5	0.3524	13.15	9.91	23.06	58.91	-35.85	QP	Р		
	6	0.3524	2.63	9.91	12.54	48.91	-36.37	AVG	Р		
	7	0.3795	13.38	9.91	23.29	58.29	-35.00	QP	Р		
	8	0.3795	1.52	9.91	11.43	48.29	-36.86	AVG	Р		
	9 *	0.3975	13.17	9.91	23.08	57.91	-34.83	QP	Р		
	10	0.3975	-0.13	9.91	9.78	47.91	-38.13	AVG	Р		
	11	26.0025	12.97	10.04	23.01	60.00	-36.99	QP	Р		
[12	26.0025	-2.38	10.04	7.66	50.00	-42.34	AVG	Р		

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor
- 4. The test data shows only the worst case GFSK 1M Low Channel: 2402 MHz.

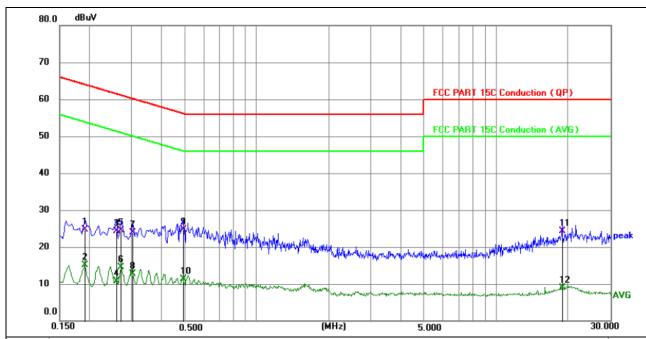






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Temperature:	24.3℃	Relative Humidity:	50%
Pressure:	101kPa	Phase :	N. C.
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1	0.1905	14.79	9.91	24.70	64.01	-39.31	QP	Р		
2	0.1905	5.15	9.91	15.06	54.01	-38.95	AVG	Р		
3	0.2580	14.37	9.91	24.28	61.50	-37.22	QP	Р		
4	0.2580	0.74	9.91	10.65	51.50	-40.85	AVG	Р		
5	0.2714	14.67	9.91	24.58	61.07	-36.49	QP	Р		
6	0.2714	4.69	9.91	14.60	51.07	-36.47	AVG	Р		
7	0.3030	14.00	9.91	23.91	60.16	-36.25	QP	Р		
8	0.3030	2.79	9.91	12.70	50.16	-37.46	AVG	Р		
9 *	0.4920	14.85	9.89	24.74	56.13	-31.39	QP	Р		
10	0.4920	1.36	9.89	11.25	46.13	-34.88	AVG	Р		
11	18.8790	14.30	9.94	24.24	60.00	-35.76	QP	Р		
12	18.8790	-1.09	9.94	8.85	50.00	-41.15	AVG	Р		

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor
- 4. The test data shows only the worst case GFSK 1M Low Channel: 2402 MHz.











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4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209 and 15.205;									
	RSS-Gen 8.9, RSS-Gen 8.10									
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz	9kHz to 25GHz								
Test site:	Measurement Distance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak					
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak					
	Ab 242 4011	Peak	1MHz	3MHz	Peak					
	Above 1GHz	Peak	1MHz	10Hz	Average					

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(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		

LIMITS OF RADIATED EMISSION MEASUREMENT

	Limit (dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

- (1) The limit for radiated test was performed according to RSS-Gen 8.9.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).













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4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

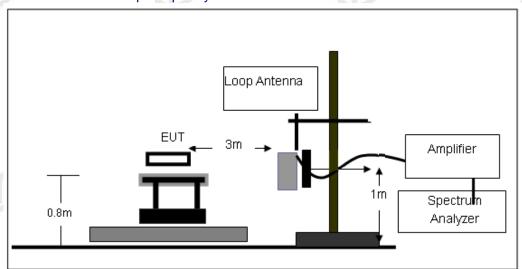
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

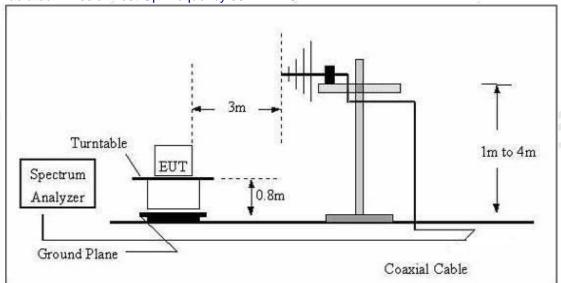
4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

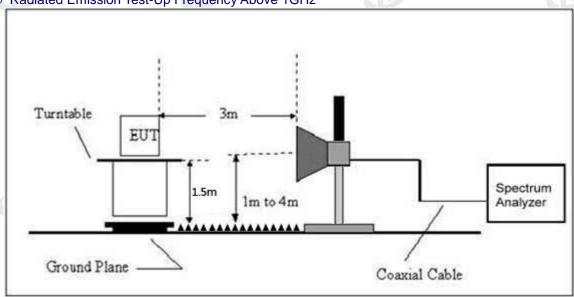


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(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.2.6 TEST RESULTS (Between 9KHz - 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

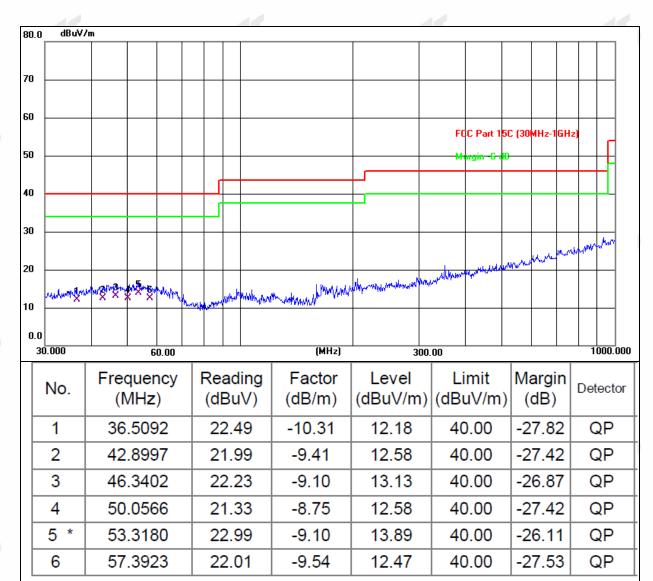




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Between 30MHz - 1GHz

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		

















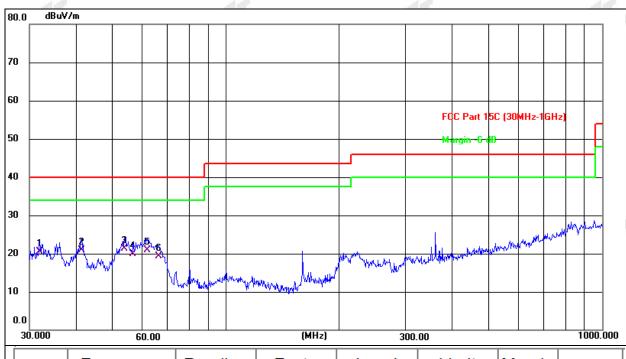






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Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.9546	31.59	-11.11	20.48	40.00	-19.52	QP
2	41.2765	30.38	-9.57	20.81	40.00	-19.19	QP
3 *	53.6932	30.39	-9.15	21.24	40.00	-18.76	QP
4	56.5929	29.38	-9.46	19.92	40.00	-20.08	QP
5	61.7781	31.38	-10.40	20.98	40.00	-19.02	QP
6	66.2662	31.05	-11.84	19.21	40.00	-20.79	QP

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The test data shows only the worst case GFSK 1M Low Channel: 2402 MHz.









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1GHz~25GHz

Polar Frequency Reading Pre-ampli Cable Antenna Level Limits Margin Detector Type	10	JHZ~25GHZ								
MHz (dBuV) (dB) (dB) (dB) (dBuVm) (dBuVm) (dB) MBV		Frequency						Limits	Margin	
V	(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
V		, ,	, ,	. , ,	ow Cha	nnel:2402M	Hz	,	. ,	
V	V	4806.00	56.8					74	-17 32	PK
V 7206.00 55.07 30.33 6.32 24.55 55.61 74 -18.39 PK		EUPER FEE SEA								
V 7206.00										
V 9608.00										
V 9608.00 43.42 30.55 5.77 24.66 43.3 54 -10.7 AV V 12010.00 58.37 30.33 6.32 24.55 58.91 74 -15.09 PK AV 12010.00 43.95 30.33 6.32 24.55 44.49 54 -9.51 AV AV 4806.00 59.1 30.55 5.77 24.66 58.98 74 -15.02 Pk 4806.00 41.92 30.55 5.77 24.66 41.8 54 -12.2 AV AV 4806.00 41.92 30.55 5.77 24.66 41.8 54 -12.2 AV AV 4806.00 41.92 30.55 5.77 24.66 58.98 74 -16.72 Pk 48.00 44.4 30.33 6.32 24.55 57.28 74 -16.72 Pk 48.00 57.92 30.55 5.77 24.66 57.8 74 -16.2 Pk 48.00 57.92 30.55 5.77 24.66 41.44 54 -12.56 AV 48.00 41.83 30.33 6.32 24.55 42.37 54 -11.63 AV AV 4882.00 41.83 30.33 6.32 24.55 42.37 54 -11.63 AV AV 4882.00 41.44 30.55 5.77 24.66 55.93 74 -16.36 Pk AV 7320.00 56.62 30.35 5.77 24.66 55.93 74 -16.36 Pk AV 7320.00 56.62 30.33 6.32 24.55 57.16 74 -16.84 Pk AV 7320.00 41.38 30.33 6.32 24.55 57.16 74 -16.84 Pk AV 7320.00 41.38 30.33 6.32 24.55 41.92 54 -12.08 AV Y 7320.00 56.62 30.35 5.77 24.66 43.4 54 -12.68 AV Y 7320.00 56.62 30.35 5.77 24.66 43.4 54 -12.68 AV Y 7320.00 56.62 30.35 5.77 24.66 43.4 54 -12.68 AV Y 7320.00 56.62 30.33 6.32 24.55 57.16 74 -16.84 Pk AV 7320.00 57.41 30.33 6.32 24.55 57.95 74 -17.25 Pk AV 7320.00 57.41 30.33 6.32 24.55 57.95 74 -16.06 AV Y 7320.00 56.03 30.55 5.77 24.66 56.75 74 -16.06 AV Y 740.00 42.27 30.55 5.77 24.66 55.91 74 -18.09 Pk AV 7320.00 57.41 30.33 6.32 24.55 57.95 74 -16.06 Pk AV 740.00 41.43 30.33 6.32 24.55 44.79 54 -12.15 AV 49.00 56.3 30.55 5.77 24.66 56.75 74 -16.24 Pk 74.000 41.43 30.33 6.32 24.55 44.79 54 -12.68 A	V									
V	V							54		
V	V									
H	V	12010.00		30.33		24.55		54		AV
H	Н	4806.00		30.55	5.77	24.66		74		Pk
H 7206.00 56.74 30.33 6.32 24.55 57.28 74 -16.72 Pk H 7206.00 44.4 30.33 6.32 24.55 44.94 54 -9.06 AV H 9608.00 57.92 30.55 5.77 24.66 57.8 74 -16.26 Pk H 9608.00 41.56 30.55 5.77 24.66 41.44 54 -12.56 AV H 12010.00 57.1 30.33 6.32 24.55 57.64 74 -16.36 Pk H 12010.00 41.83 30.33 6.32 24.55 42.37 54 -11.63 AV W 4882.00 56.05 30.55 5.77 24.66 41.32 54 -12.68 AV V 7320.00 56.62 30.33 6.32 24.55 57.66 74 -16.36 Pk V 7320.00 41.38 30.33 6.32 24.55 57.66 74 -16.84 Pk V 7320.00 41.38 30.33 6.32 24.55 57.66 74 -16.84 Pk V 7320.00 41.38 30.33 6.32 24.55 57.66 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 57.95 74 -16.05 Pk H 4882.00 42.27 30.55 5.77 24.66 55.91 74 -16.05 Pk H 4882.00 42.27 30.55 5.77 24.66 55.91 74 -16.05 Pk H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.26 Pk H 7320.00 41.31 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 57.76 74 -16.24 Pk H 976000 43.53 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 56.18 74 -17.82 Pk W 7440.00 56.53 30.55 5.77 24.66 58.42 74 -15.58 Pk W 7440.00 56.63 30.55 5.77 24.66 58.42 74 -15.58 Pk W 7440.00 41.55 30.55 5.77 24.66 58.42 74 -15.58 Pk W 7440.00 59.19 30.33 6.32 24.55 58.19 74 -15.58 Pk W 920.00 41.62 30.55 5.77 24.66 59.49 74 -15.58 Pk W 7440.00 59.19 30.33 6.32 24.55 59.73	Н	4806.00		30.55	5.77	24.66		54		AV
H 9608.00 57.92 30.55 5.77 24.66 57.8 74 -16.2 Pk H 9608.00 41.56 30.55 5.77 24.66 41.44 54 -12.56 AV H 12010.00 57.1 30.33 6.32 24.55 57.64 74 -16.36 Pk H 12010.00 41.83 30.33 6.32 24.55 57.64 74 -16.36 Pk H 12010.00 41.83 30.33 6.32 24.55 57.64 74 -16.36 Pk H 12010.00 41.83 30.33 6.32 24.55 42.37 54 -11.63 AV W 4882.00 56.05 30.55 5.77 24.66 55.93 74 -18.07 Pk V 4882.00 41.44 30.55 5.77 24.66 55.93 74 -18.07 Pk V 7320.00 56.62 30.33 6.32 24.55 57.16 74 -16.84 Pk V 7320.00 41.38 30.33 6.32 24.55 57.16 74 -16.84 Pk V 9760.00 43.52 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 42.27 30.55 5.77 24.66 42.15 54 -12.8 H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 9760.00 41.33 30.55 5.77 24.66 58.42 74 -15.58 Pk H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 56.3 30.55 5.77 24.66 56.32 74 -15.81 Pk V 4940.00 56.3 30.55 5.77 24.66 56.32 74 -15.81 Pk V 7440.00 59.91 30.33 6.32 24.55 59.73 74 -15.81 Pk V 12400.00 59.16 30.55 5.77 24.66 59.49 74 -15.81 Pk V 12400.00 59.16 30.55 5.77 24.66 59.49 74 -15.81 Pk V 12400.00 59.16 30.55 5.77 24.66 59	Н	7206.00		30.33	6.32	24.55		74		Pk
H 9608.00	Н	7206.00	44.4	30.33	6.32	24.55	44.94	54	-9.06	AV
H 12010.00 57.1 30.33 6.32 24.55 57.64 74 -16.36 Pk H 12010.00 41.83 30.33 6.32 24.55 42.37 54 -11.63 AV	Н	9608.00	57.92	30.55	5.77	24.66	57.8	74	-16.2	Pk
H 12010.00 41.83 30.33 6.32 24.55 42.37 54 -11.63 AV Middle Channel:2440MHz	Н	9608.00	41.56	30.55	5.77	24.66	41.44	54	-12.56	AV
Middle Channel:2440MHz	Н	12010.00	57.1	30.33	6.32	24.55	57.64	74	-16.36	Pk
V 4882.00 56.05 30.55 5.77 24.66 55.93 74 -18.07 Pk V 4882.00 41.44 30.55 5.77 24.66 41.32 54 -12.68 AV V 7320.00 56.62 30.33 6.32 24.55 57.16 74 -16.84 Pk V 7320.00 41.38 30.33 6.32 24.55 57.16 74 -16.84 Pk V 9760.00 56.87 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 42.25 30.33 6.32 24.55 57.95 74 -18.09 Pk H 4882.00 56.03 30.55 5.77<	Н	12010.00	41.83	30.33	6.32	24.55	42.37	54	-11.63	AV
V 4882.00 41.44 30.55 5.77 24.66 41.32 54 -12.68 AV V 7320.00 56.62 30.33 6.32 24.55 57.16 74 -16.84 Pk V 7320.00 41.38 30.33 6.32 24.55 41.92 54 -12.08 AV V 9760.00 56.87 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 56.75 74 -16.05 Pk V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 57.95 74 -16.06 Pk H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 7320.00 57.22 30.33 6.3				M	iddle Ch	annel:2440l	MHz			
V 7320.00 56.62 30.33 6.32 24.55 57.16 74 .16.84 Pk V 7320.00 41.38 30.33 6.32 24.55 41.92 54 -12.08 AV V 9760.00 56.87 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32<	V	4882.00	56.05	30.55	5.77	24.66	55.93	74	-18.07	Pk
V 7320.00 41.38 30.33 6.32 24.55 41.92 54 -12.08 AV V 9760.00 56.87 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 44.79 54 -9.21 AV H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 9760.00 58.54 30.55 5.77 </td <td>V</td> <td>4882.00</td> <td>41.44</td> <td>30.55</td> <td>5.77</td> <td>24.66</td> <td>41.32</td> <td>54</td> <td>-12.68</td> <td>AV</td>	V	4882.00	41.44	30.55	5.77	24.66	41.32	54	-12.68	AV
V 7320.00 41.38 30.33 6.32 24.55 41.92 54 -12.08 AV V 9760.00 56.87 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 44.79 54 -9.21 AV H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 9760.00 58.54 30.55 5.77 </td <td>V</td> <td>7320.00</td> <td>56.62</td> <td>30.33</td> <td>6.32</td> <td>24.55</td> <td>57.16</td> <td>74</td> <td>-16.84</td> <td>Pk</td>	V	7320.00	56.62	30.33	6.32	24.55	57.16	74	-16.84	Pk
V 9760.00 56.87 30.55 5.77 24.66 56.75 74 -17.25 Pk V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 44.79 54 -9.21 AV H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 9760.00 41.33 30.55 5.77 </td <td>V</td> <td>7320.00</td> <td>41.38</td> <td>30.33</td> <td>6.32</td> <td>24.55</td> <td></td> <td>54</td> <td></td> <td>AV</td>	V	7320.00	41.38	30.33	6.32	24.55		54		AV
V 9760.00 43.52 30.55 5.77 24.66 43.4 54 -10.6 AV V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 44.79 54 -9.21 AV H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 55.91 74 -18.09 Pk H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 57.76 74 -15.58 Pk H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 12200.00 59.51 30.33 6.32<	V	9760.00		30.55	5.77	24.66	56.75	74		Pk
V 12200.00 57.41 30.33 6.32 24.55 57.95 74 -16.05 Pk V 12200.00 44.25 30.33 6.32 24.55 44.79 54 -9.21 AV H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 57.76 74 -16.24 Pk H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32	V	9760.00	43.52	30.55	5.77	24.66	43.4	54	-10.6	AV
H 4882.00 56.03 30.55 5.77 24.66 55.91 74 -18.09 Pk H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 57.76 74 -16.24 Pk H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV H 4940.00 56.3 30.55 5.77<	V	12200.00	57.41	30.33	6.32	24.55	57.95	74	-16.05	Pk
H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 41.85 54 -12.15 AV H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV W 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 7440.00 41.55 30.33 6.32<	V	12200.00	44.25	30.33	6.32	24.55	44.79	54	-9.21	AV
H 4882.00 42.27 30.55 5.77 24.66 42.15 54 -11.85 AV H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 41.85 54 -12.15 AV H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 56.3	Н	4882.00	56.03	30.55	5.77	24.66	55.91	74	-18.09	Pk
H 7320.00 57.22 30.33 6.32 24.55 57.76 74 -16.24 Pk H 7320.00 41.31 30.33 6.32 24.55 41.85 54 -12.15 AV H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33	Н	4882.00	42.27	30.55	5.77	24.66		54		AV
H 7320.00 41.31 30.33 6.32 24.55 41.85 54 -12.15 AV H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00	Н	7320.00		30.33	6.32	24.55		74		Pk
H 9760.00 58.54 30.55 5.77 24.66 58.42 74 -15.58 Pk H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 <td>Н</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>54</td> <td></td> <td>AV</td>	Н							54		AV
H 976000 41.33 30.55 5.77 24.66 41.21 54 -12.79 AV H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV High Channel:2480MHz High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 12400.00	Н	+								
H 12200.00 59.51 30.33 6.32 24.55 60.05 74 -13.95 Pk H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00	Н	976000			5.77			54	4	AV
H 12200.00 43.17 30.33 6.32 24.55 43.71 54 -10.29 AV High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00	Н	12200.00		30.33	6.32	24.55		74		Pk
High Channel:2480MHz V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00 41.43 30.33 6.32 24.55 41.97 54 -12.03 AV H 4940.00 59.61 30.55 5.77 24.66 59.49 74 -14.51 Pk H 4940.00 58.99 30.33 6.32 24.55 59.53 74 -14.51 Pk H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 59.53 74 -14.47 Pk	Н	12200.00		30.33	6.32	24.55		54		AV
V 4940.00 56.3 30.55 5.77 24.66 56.18 74 -17.82 Pk V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00 41.43 30.33 6.32 24.55 41.97 54 -12.03 AV H 4940.00 59.61 30.55 5.77 </td <td></td> <td>l l</td> <td>I</td> <td></td> <td>High Cha</td> <td>nnel:2480N</td> <td>1Hz</td> <td>l</td> <td></td> <td></td>		l l	I		High Cha	nnel:2480N	1Hz	l		
V 4940.00 41.55 30.55 5.77 24.66 41.43 54 -12.57 AV V 7440.00 57.65 30.33 6.32 24.55 58.19 74 -15.81 Pk V 7440.00 42.88 30.33 6.32 24.55 43.42 54 -10.58 AV V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00 41.43 30.33 6.32 24.55 41.97 54 -12.03 AV H 4940.00 59.61 30.55 5.77 24.66 59.49 74 -14.51 Pk H 7440.00 58.99 30.33 6.32<	V	4940.00	56.3					74	-17.82	Pk
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V 9920.00 56.44 30.55 5.77 24.66 56.32 74 -17.68 Pk V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00 41.43 30.33 6.32 24.55 41.97 54 -12.03 AV H 4940.00 59.61 30.55 5.77 24.66 59.49 74 -14.51 Pk H 4940.00 41.35 30.55 5.77 24.66 41.23 54 -12.77 AV H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	V	7440.00	42.88	30.33	6.32	24.55		54		AV
V 9920.00 41.62 30.55 5.77 24.66 41.5 54 -12.5 AV V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00 41.43 30.33 6.32 24.55 41.97 54 -12.03 AV H 4940.00 59.61 30.55 5.77 24.66 59.49 74 -14.51 Pk H 4940.00 41.35 30.55 5.77 24.66 41.23 54 -12.77 AV H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	V	9920.00		30.55	5.77	24.66		74		Pk
V 12400.00 59.19 30.33 6.32 24.55 59.73 74 -14.27 Pk V 12400.00 41.43 30.33 6.32 24.55 41.97 54 -12.03 AV H 4940.00 59.61 30.55 5.77 24.66 59.49 74 -14.51 Pk H 4940.00 41.35 30.55 5.77 24.66 41.23 54 -12.77 AV H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	V	9920.00		30.55	5.77	24.66		54		AV
H 4940.00 59.61 30.55 5.77 24.66 59.49 74 -14.51 Pk H 4940.00 41.35 30.55 5.77 24.66 41.23 54 -12.77 AV H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	V	12400.00	59.19	30.33	6.32	24.55	59.73	74	-14.27	Pk
H 4940.00 41.35 30.55 5.77 24.66 41.23 54 -12.77 AV H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	V	12400.00	41.43	30.33	6.32	24.55	41.97	54	-12.03	AV
H 7440.00 58.99 30.33 6.32 24.55 59.53 74 -14.47 Pk H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	Н	4940.00	59.61	30.55	5.77	24.66	59.49	74	-14.51	Pk
H 7440.00 41.4 30.33 6.32 24.55 41.94 54 -12.06 AV	Н	4940.00	41.35	30.55	5.77	24.66	41.23	54	-12.77	AV
	Н	7440.00	58.99	30.33	6.32	24.55	59.53	74	-14.47	Pk
H 9920.00 56.23 30.55 5.77 24.66 56.11 74 -17.89 Pk			41.4		6.32	24.55	41.94		-12.06	
	Н	9920.00	56.23	30.55	5.77	24.66	56.11	74	-17.89	Pk







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Н	9920.00	41.4	30.55	5.77	24.66	41.28	54	-12.72	AV
Н	12400.00	58.32	30.33	6.32	24.55	58.86	74	-15.14	Pk
Н	12400.00	42.34	30.33	6.32	24.55	42.88	54	-11.12	AV

Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4. The test data shows only the worst case GFSK 1M .







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5.RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.247 (e);RSS-Gen 8.10, RSS-247 5.5						
Test Method:	ANSI C63.10:	ANSI C63.10: 2013					
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.						
Test site:	Measurement	Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above	Peak	1MHz	3MHz	Peak		
	1GHz	Average	1MHz	3MHz	Average		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	Limit (dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

- (1) The limit for radiated test was performed according to RSS-247 5.5
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 and the rota 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, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation



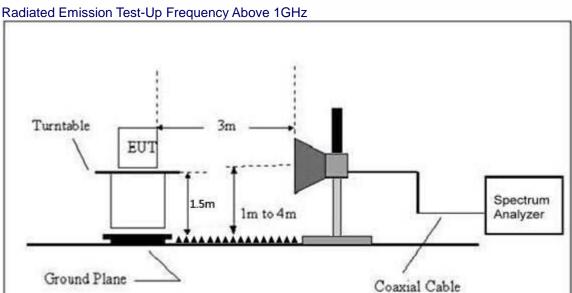


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5.4 TEST SETUP





5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.







































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5.6 TEST RESULT

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detec tor Type	Result
				Low	Channe	l: 2402MHz	7				
	Н	2390.00	59.12	30.22	4.85	23.98	57.73	74.00	-16.27	PK	PASS
	H	2390.00	47.56	30.22	4.85	23.98	46.17	54.00	-7.83	AV	PASS
	H	2400.00	60.03	30.22	4.85	23.98	58.64	74.00	-15.36	PK	PASS
	H	2400.00	46.17	30.22	4.85	23.98	44.78	54.00	-9.22	AV	PASS
	V	2390.00	59.56	30.22	4.85	23.98	58.17	74.00	-15.83	PK	PASS
	V	2390.00	47.94	30.22	4.85	23.98	46.55	54.00	-7.45	AV	PASS
9	V	2400.00	59.82	30.22	4.85	23.98	58.43	74.00	-15.57	PK	PASS
GFSK	V	2400.00	47.58	30.22	4.85	23.98	46.19	54.00	-7.81	AV	PASS
GFSK			12			el: 2480MHz		(1))		
	Н	2483.50	62.11	30.22	4.85	23.98	60.72	74.00	-13.28	AV	PASS
	Н	2483.50	47.39	30.22	4.85	23.98	46.00	54.00	-8.00	PK	PASS
	Н	2500.00	59.31	30.22	4.85	23.98	57.92	74.00	-16.08	AV	PASS
	Н	2500.00	48.45	30.22	4.85	23.98	47.06	54.00	-6.94	PK	PASS
	V	2483.50	61.47	30.22	4.85	23.98	60.08	74.00	-13.92	AV	PASS
	V	2483.50	46.98	30.22	4.85	23.98	45.59	54.00	-8.41	PK	PASS
	V	2500.00	61.68	30.22	4.85	23.98	60.29	74.00	-13.71	AV	PASS
	V	2500.00	47.70	30.22	4.85	23.98	46.31	54.00	-7.69	AV	PASS





^{1.} Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 3. The test data shows only the worst case GFSK-1M.





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6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e);RSS 247 5.2(b)
Test Method:	ANSI C63.10

6.1 APPLIED PROCEDURES / LIMIT

RSS 247							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
5.2(b)	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS			

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER







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6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

		3		
Temperature :	25.8℃		Relative Humidity:	52%
Test Mode :	GFSK		Test Voltage :	DC 3.7V

6.6 TEST RESULTS:

Please refer to the Appendix BLE







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7. Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2); RSS 247 5.2(a), RSS GEN
Test Method:	ANSI C63.10

7.1 APPLIED PROCEDURES / LIMIT

	7.07			
RSS 247 5.2(a), RSS GEN				
Test Item Limit Frequency Range (MHz)				
Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

7.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Temperature :	25.8℃	Relative Humidity:	52%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

7.6 TEST RESULTS:

Please refer to the Appendix BLE





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8.PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3); RSS 247 5.4 (d)
Test Method:	ANSI C63.10

8.1 APPLIED PROCEDURES / LIMIT

RSS 247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
5.4 (d)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

a. The EUT was directly connected to the Spectrum Analyzer

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Temperature :	25.8℃	Relative Humidity:	52%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

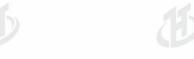
8.6 TEST RESULTS

Please refer to the Appendix BLE



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9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d); RSS-Gen 8.10, RSS-247 5.5
Test Method:	ANSI C63.10

9.1 APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Temperature :	25.8℃	Relative Humidity:	52%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

9.6 TEST RESULTS Please refer to the Appendix BLE









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10.ANTENNA REQUIREMENT





Standard requirement:

FCC Part15 C Section 15.203 /RSS-Gen 6.8

15.203 requirement:

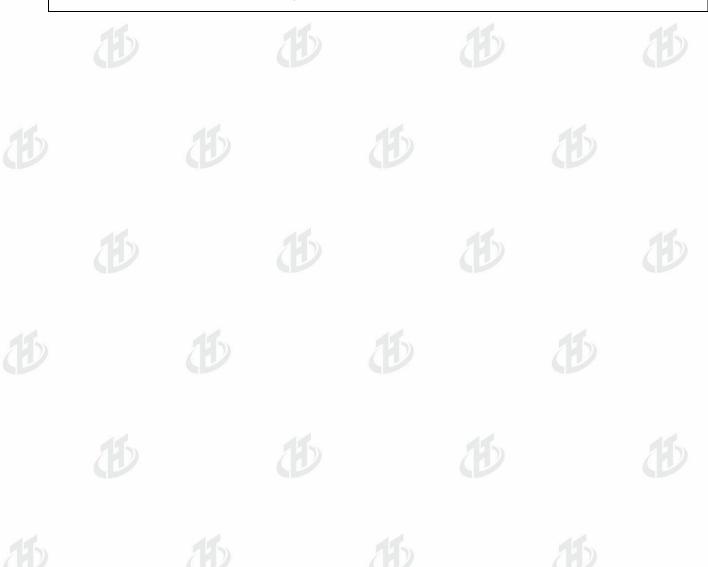
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is Chip antenna, the best case gain of the antennas is 2.78dBi, reference to the appendix II for details









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11. APPENDIX BLE

11.1. MAXIMUM PEAK CONDUCTED OUTPUT POWER

Mode	Test channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
BLE-1M	Lowest	-0.92	30.00	Pass
	Middle	-0.52		
	Highest	-0.78		
BLE-2M	Lowest	-0.91		
	Middle	-0.51		Pass
	Highest	-0.76		

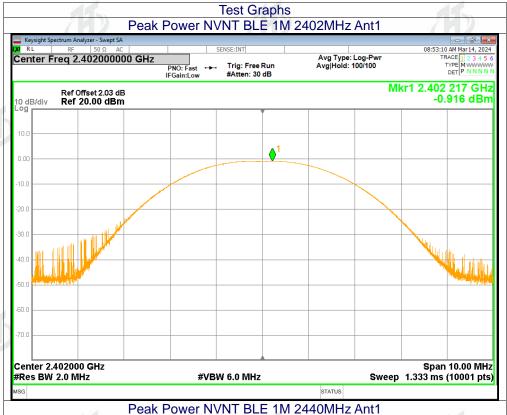


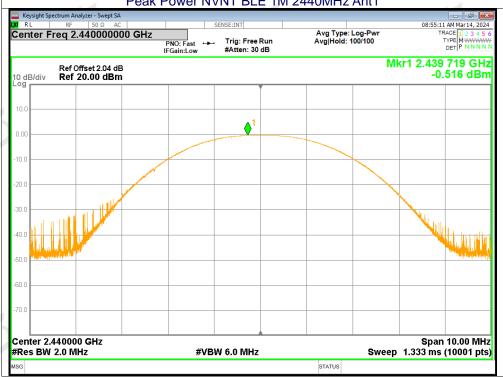






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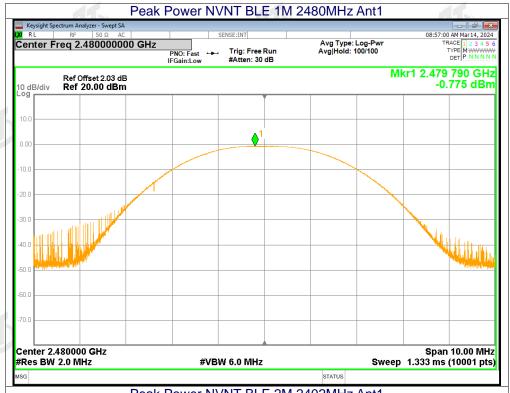


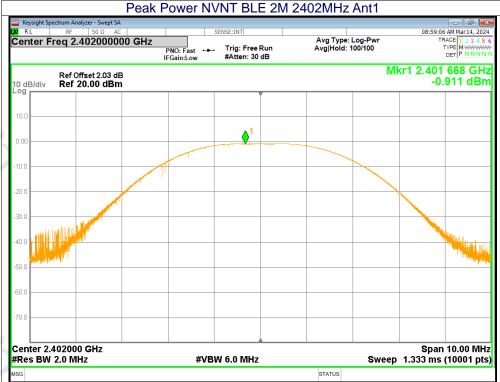






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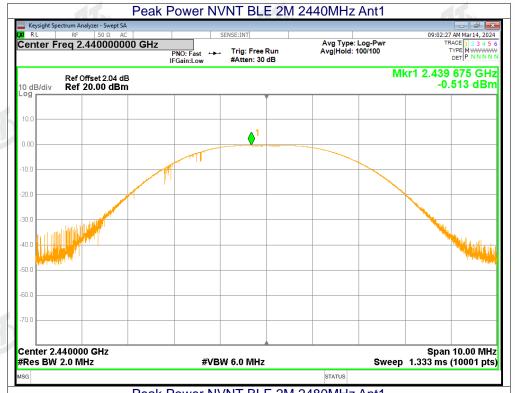


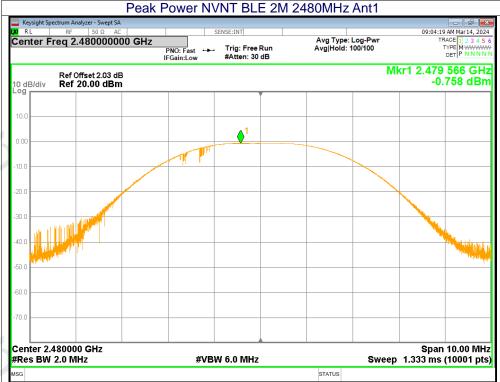






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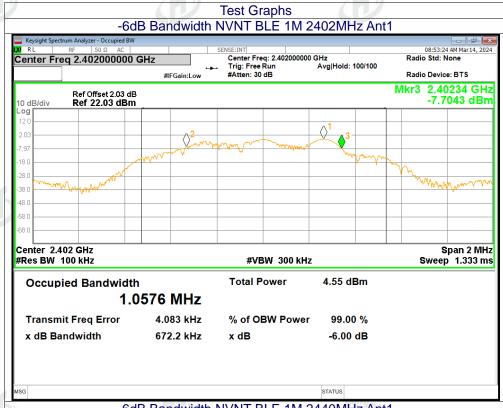




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11.2 -6dB Bandwidth

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.672	0.5	Pass
BLE 1M	2440	0.674	0.5	Pass
BLE 1M	2480	0.683	0.5	Pass
BLE 2M	2402	1.126	0.5	Pass
BLE 2M	2440	1.129	0.5	Pass
BLE 2M	2480	1.121	0.5	Pass

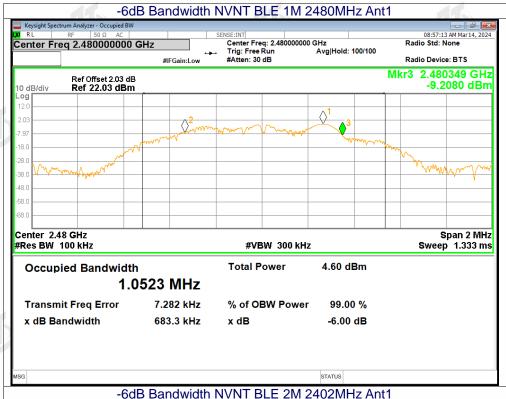


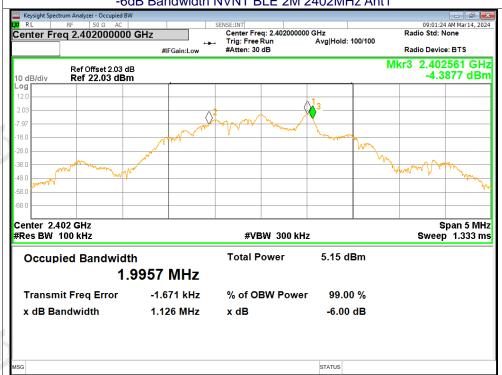






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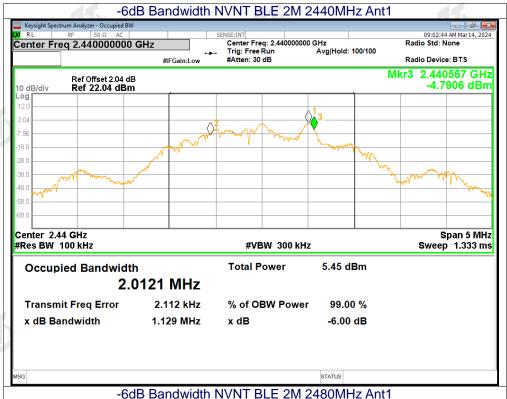








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11.3 OCCUPIED CHANNEL BANDWIDTH

Mode	Frequency (MHz)	99% OBW (MHz)
BLE 1M	2402	1.004
BLE 1M	2440	1.01
BLE 1M	2480	1.011
BLE 2M	2402	1.933
BLE 2M	2440	1.948
BLE 2M	2480	1.959











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11.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

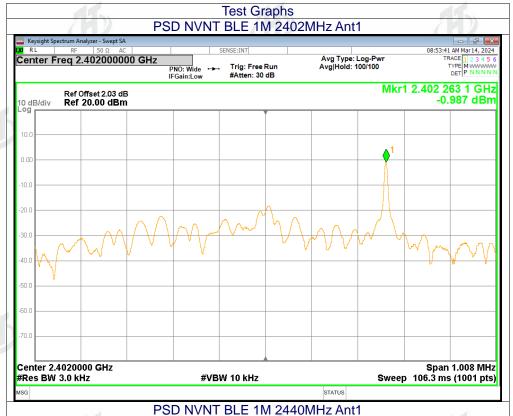
Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-0.99	0	-0.99	8	Pass
BLE 1M	2440	-0.62	0	-0.62	8	Pass
BLE 1M	2480	-0.89	0	-0.89	8	Pass
BLE 2M	2402	-5.52	0	-5.52	8	Pass
BLE 2M	2440	-5.16	0	-5.16	8	Pass
BLE 2M	2480	-5.42	0	-5.42	8	Pass

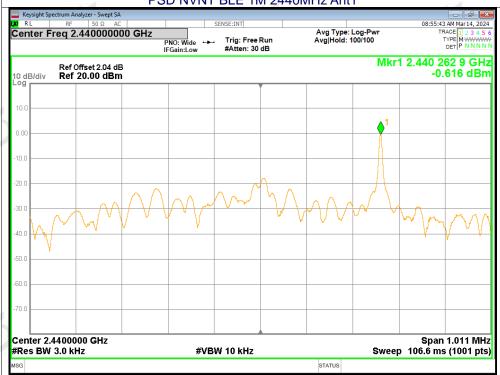






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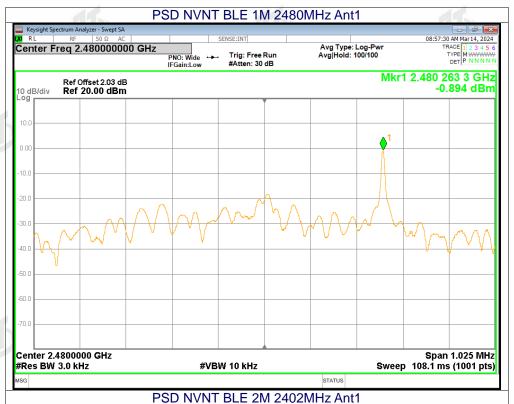


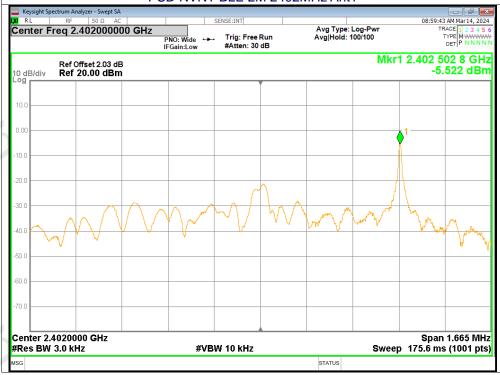






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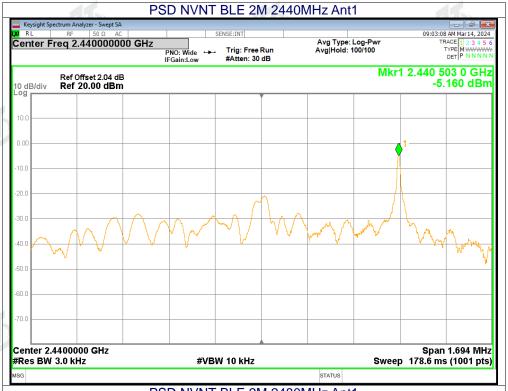


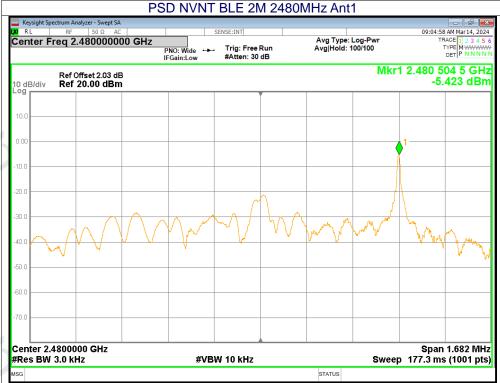






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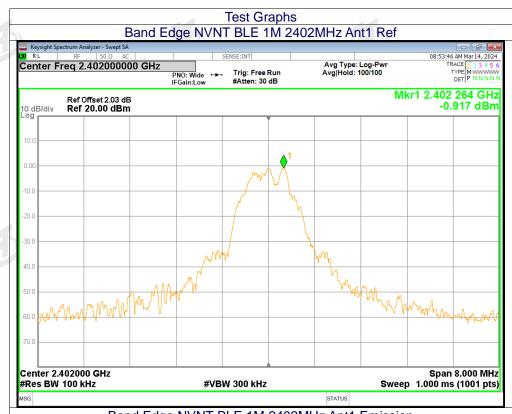




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11.5 BAND EDGE

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-49.92	-20	Pass
BLE 1M	2480	-55.43	-20	Pass
BLE 2M	2402	-32.92	-20	Pass
BLE 2M	2480	-53.39	-20	Pass





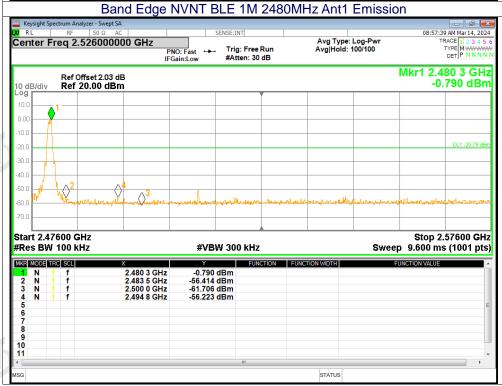






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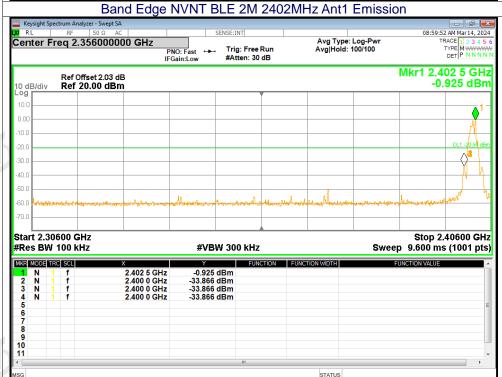






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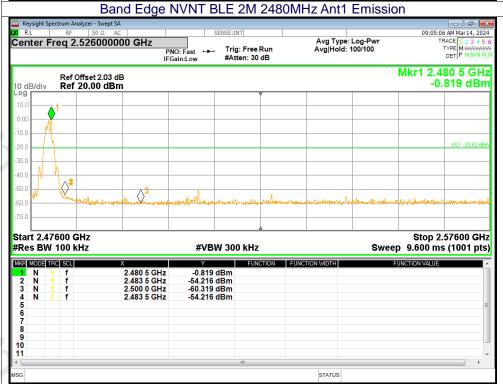






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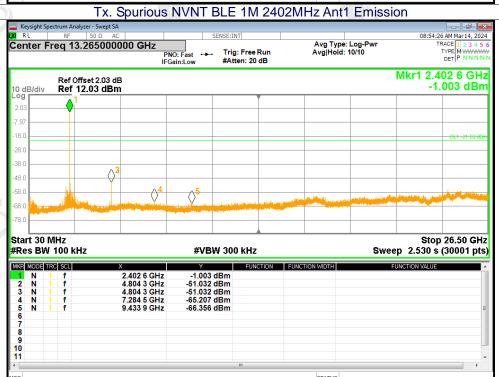


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11.6 CONDUCTED RF SPURIOUS EMISSION

	(1011)			
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-50.01	-20	Pass
BLE 1M	2440	-52.64	-20	Pass
BLE 1M	2480	-55	-20	Pass
BLE 2M	2402	-49.94	-20	Pass
BLE 2M	2440	-52.59	-20	Pass
BLE 2M	2480	-49.91	-20	Pass

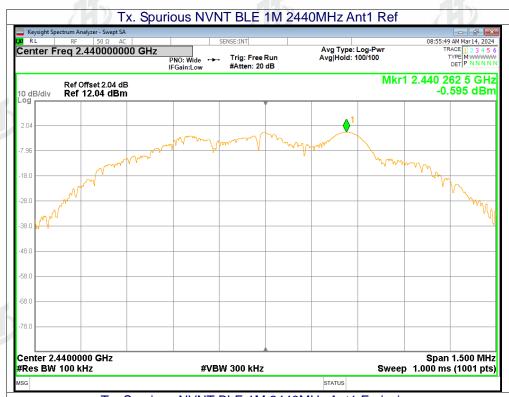


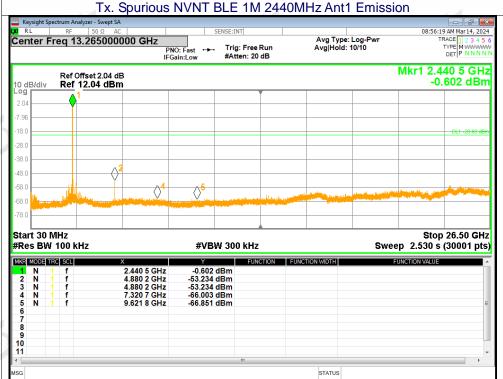






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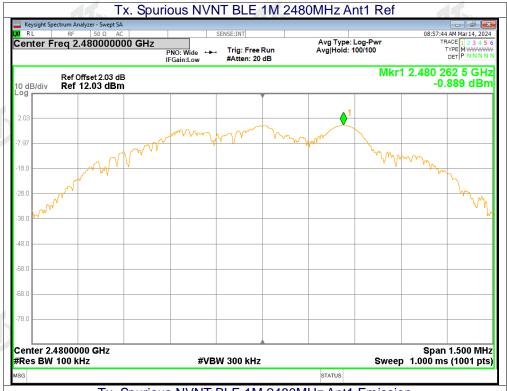


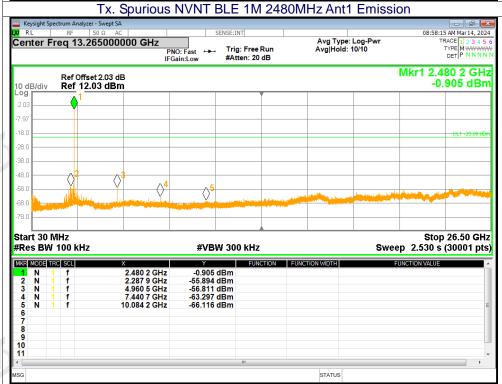




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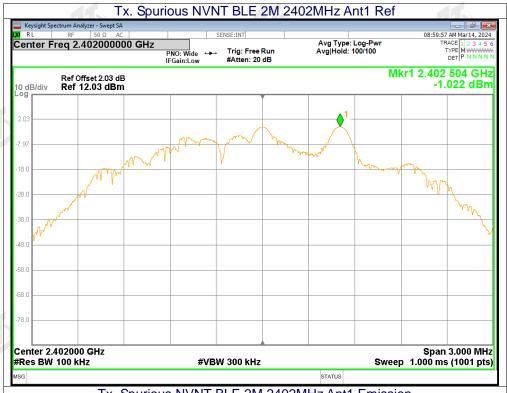


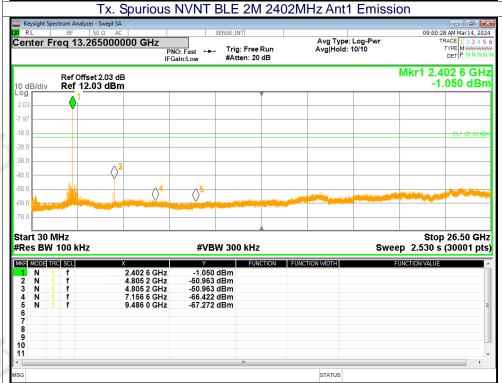






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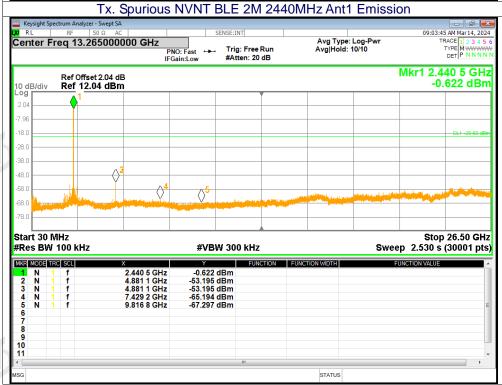






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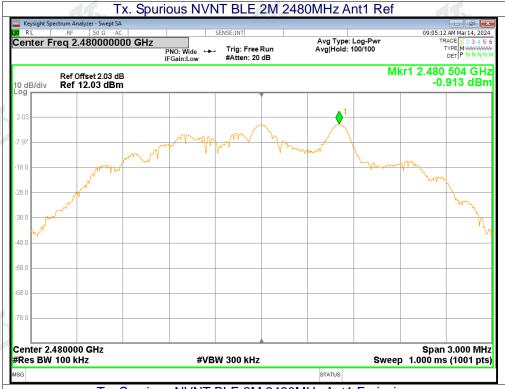


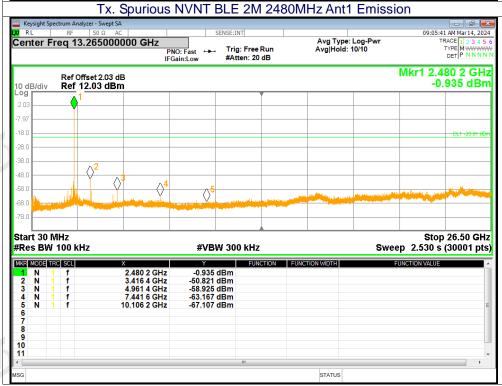






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Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.









