Radio Test Report

Report No: STS2308324W02

Issued for

Chongqing Huiye lot Technology Co., Ltd.

No.4 Of No.6 Comprehensive Tax Avenue, Shapingba Districh, Chongqing, China



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Report No.: STS2308324W02

TEST RESULT

Applicant's Name:	Chongqing Huiye lot Technology Co., Ltd.					
Address:	No.4 Of No.6 Comprehensive Tax Avenue, Shapingba Districh, Chongqing, China					
Manufacturer's Name:	Chongqing Huiye lot Technology Co., Ltd.					
Address:	No.4 Of No.6 Comprehensive Tax Avenue, Shapingba Districh, Chongqing, China					
Product Description						
Product Name:	LCD Display					
Brand Name:						
Model Name:	B02N-C					
Series Model(s):	N/A					
Test Standards:	FCC Part15.247					
Test Procedure:	ANSI C63.10-2013					

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

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Date of Test	
Date of receipt of test item:	15 Aug. 2023
Date (s) of performance of tests:	15 Aug. 2023 ~ 22 Aug. 2023
Date of Issue:	22 Aug. 2023
Test Result:	Pass

:

Testing Engineer

ann 13U

(Aaron Bu)

Technical Manager

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(Sean she)



EST SEA

Authorized Signatory :

(Chris Chen)

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Revision History

Rev.	Issue Date	Issue Date Report NO. Effect Page		Contents	
00	22 Aug. 2023	22 Aug. 2023 STS2308324W02		Initial Issue	
			9	9	





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	N/A				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)(3)	PASS					
15.209	15.209 Radiated Spurious Emission					
15.247 (d)	15.247 (d) Conducted Spurious & Band Edge Emission		6			
15.247 (e) Power Spectral Density		PASS				
15.205 Restricted bands of operation		PASS				
Part 15.247(d)/ Part 15.209(a) Band Edge Emission		PASS				
15.203	Antenna Requirement	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

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A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, 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	RF output power, conducted	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB
9	Occupied Channel Bandwidth	±3.5%
10	Dwell time	±3.2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

and the second se	P				
Product Name	LCD Display	13 13			
Brand Name	HUIYE				
Model Name	B02N-C				
Series Model(s)	N/A				
Model Difference	N/A				
Product Description	The EUT is a LCD I Operation Frequency: Modulation Type: Radio Technology: Bluetooth Configuration: Number Of Channel: Antenna Type: Antenna Gain (dBi)	2402~2480 MHz GFSK BLE LE(Support 1M PHY) 40 PCB			
Channel List	Please refer to the I	Note 3.			
Rating	Input: DC 12V-60V 2A				
Hardware version number	B02N_PCB_V1.04				
Software version number	N/A				
Connecting I/O Port(s)	Please refer to the Note 1.				

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/GFSK

Note:

(1) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.

2.3 TEST SOFTWARE AND POWER LEVEL

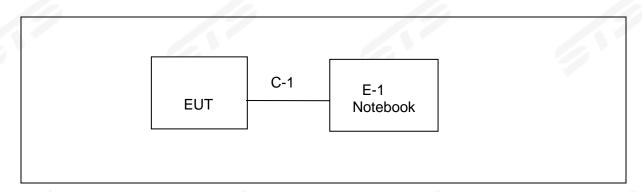
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	-5	Default	MauiMETA_v8.1520.9(Official)



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

	Necessary accessories								
Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note				
N/A	N/A	N/A N/A		N/A	N/A				
				.4					
	9								
18		1		1					

Item	Equipment	Mfr/Brand	Support units Model/Type No.	Length	Note
E-1	Notebook	LENOVO	Think Pad E470	N/A	N/A
E-2	Notebook Adapter	LENOVO	ADLX45DLC3A	N/A	N/A
C-1	USB Cable	N/A	N/A	150cm	NO
57		1			

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^CLength₂ column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.6 EQUIPMENTS LIST

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2023.02.28	2024.02.2
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
18GHz-40GHz Filter	XINGBO	XBLBQ-GTA44	22062003-1	2023.03.06	2024.03.0
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2023.03.06	2024.03.0
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.2
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.2
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.2
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02014	2021.10.11	2023.10.1
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.2
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EZ-EMC		Ver.STSLAB-03A	1 RE	
		Conduction Test	equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.2
LISN	R&S	ENV216	101242	2022.09.28	2023.09.2
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.2
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.2
Test SW	EZ-EMC		Ver.STSLAB-03A	1 CE	
		RF Connect	ed Test		
Kind of Equipment	Manufacturer	Туре No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2023.03.01	2024.02.2
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.2
Test SW	MW		MTS 8310_2.0	.0.0	



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
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) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

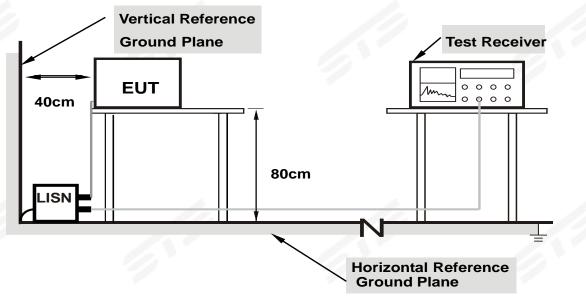
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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 is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 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.



3.5 TEST RESULTS

Temperature:	(C)	Relative Humidity:	%RH
Test Voltage:	N/A	Phase:	L/N
Test Mode:	N/A	9	9

Note: EUT cannot be powered by battery and is not applicable.





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

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 (Above 1000MHz)

	(dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54			
Notes:					
(1) The limit for radiated te	est was performed according	to FCC PART 15C.			
(2) The tighter limit applies	(2) The tighter limit applies at the band edges				

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1		



For Radiated Emission

Spectrum Parameter	Setting Auto	
Attenuation		
Detector	Peak/QP/AV	
Start Frequency	9 KHz/150KHz(Peak/QP/AV)	
Stop Frequency	150KHz/30MHz(Peak/QP/AV)	
	200Hz (From 9kHz to 0.15MHz)/	
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);	
band)	200Hz (From 9kHz to 0.15MHz)/	
	9KHz (From 0.15MHz to 30MHz)	

and the second	
Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted	1207 KHz / 300 KHz
band)	1207 KH27 300 KH2

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)
band)	1 MHz/1/T MHz(AVG)
For Restricted band	

	Spectrum Parameter	Setting	
	Detector	Peak/AV	
	Stort/Stop Fraguenay	Lower Band Edge: 2310 to 2410 MHz	
	Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz	
	RB / VB	1 MHz / 3 MHz(Peak)	
	ND / VD	1 MHz/1/T MHz(AVG)	



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

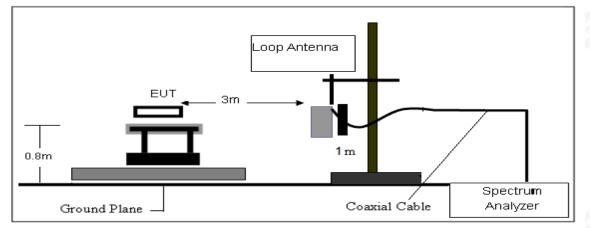
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

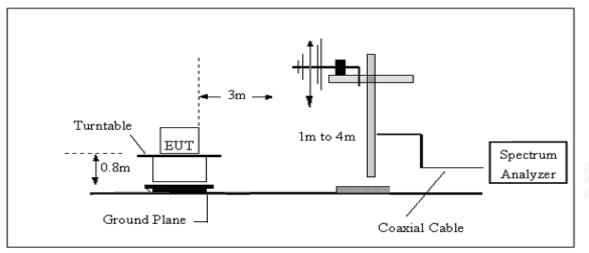


4.3 TEST SETUP

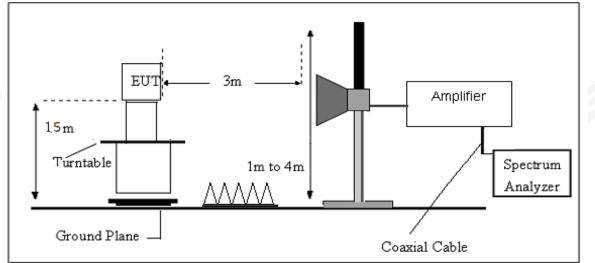
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.4 EUT OPERATING CONDITIONS Please refer to section 3.4 of this report.

4.5 FIELD STRENGTH CALCULATION



The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1
Factor=AF+CL-AG	1					15













4.6 TEST RESULTS

(Between 9KHz – 30 MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 12V	Polarization:	
Test Mode:	TX Mode	1	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



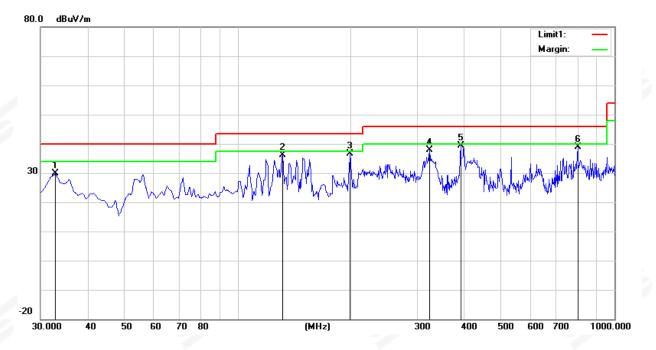
(30MHz -1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	DC 12V	Phase:	Horizontal		
Test Mode:	Mode: Mode 1/2/3 (Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	44.15	-14.33	29.82	40.00	-10.18	peak
2	131.8500	54.38	-18.20	36.18	43.50	-7.32	peak
3	198.7800	57.72	-21.12	36.60	43.50	-6.90	peak
4	323.9100	51.86	-13.88	37.98	46.00	-8.02	peak
5	390.8400	50.98	-11.54	39.44	46.00	-6.56	peak
6	800.1800	41.02	-2.05	38.97	46.00	-7.03	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





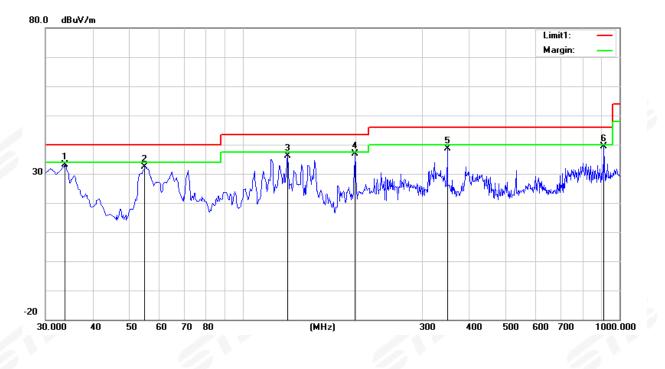
Report No.: STS2308324W02

Temperature:	23.1(C)	Relative Humidity:	60%RH			
Test Voltage:	DC 12V	Phase:	Vertical			
Test Mode:	Mode 1/2/3 (Mode 2 worst mo	de 1/2/3 (Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	47.88	-14.80	33.08	40.00	-6.92	peak
2	55.2200	57.31	-25.04	32.27	40.00	-7.73	peak
3	131.8500	54.33	-18.20	36.13	43.50	-7.37	peak
4	198.7800	57.96	-21.12	36.84	43.50	-6.66	peak
5	350.1000	51.73	-13.06	38.67	46.00	-7.33	peak
6	910.7600	39.48	-0.17	39.31	46.00	-6.69	peak

Remark:

 Margin = Result (Result =Reading + Factor)–Limit
Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain 2.





(1GHz-25GHz) Spurious emission Requirements

GFSK

						-				
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low Cł	nannel (GFSK/	2402 MHz)	Y			
3264.84	61.67	44.70	6.70	28.20	-9.80	51.87	74.00	-22.13	PK	Vertical
3264.84	51.11	44.70	6.70	28.20	-9.80	41.31	54.00	-12.69	AV	Vertical
3264.64	61.03	44.70	6.70	28.20	-9.80	51.23	74.00	-22.77	PK	Horizontal
3264.64	50.53	44.70	6.70	28.20	-9.80	40.73	54.00	-13.27	AV	Horizontal
4804.50	58.46	44.20	9.04	31.60	-3.56	54.90	74.00	-19.10	PK	Vertical
4804.50	50.04	44.20	9.04	31.60	-3.56	46.48	54.00	-7.52	AV	Vertical
4804.55	59.23	44.20	9.04	31.60	-3.56	55.67	74.00	-18.33	PK	Horizontal
4804.55	50.31	44.20	9.04	31.60	-3.56	46.75	54.00	-7.25	AV	Horizontal
5359.70	47.98	44.20	9.86	32.00	-2.34	45.64	74.00	-28.36	PK	Vertical
5359.70	39.66	44.20	9.86	32.00	-2.34	37.32	54.00	-16.68	AV	Vertical
5359.80	48.28	44.20	9.86	32.00	-2.34	45.94	74.00	-28.06	PK	Horizontal
5359.80	39.14	44.20	9.86	32.00	-2.34	36.79	54.00	-17.21	AV	Horizontal
7205.83	54.54	43.50	11.40	35.50	3.40	57.94	74.00	-16.06	PK	Vertical
7205.83	44.88	43.50	11.40	35.50	3.40	48.28	54.00	-5.72	AV	Vertical
7205.84	54.02	43.50	11.40	35.50	3.40	57.42	74.00	-16.58	PK	Horizontal
7205.84	44.29	43.50	11.40	35.50	3.40	47.69	54.00	-6.31	AV	Horizontal
		•	•	Middle C	Channel (GFSK	(/2440 MHz)		•		
3263.12	60.98	44.70	6.70	28.20	-9.80	51.18	74.00	-22.82	PK	Vertical
3263.12	50.40	44.70	6.70	28.20	-9.80	40.60	54.00	-13.40	AV	Vertical
3263.17	61.59	44.70	6.70	28.20	-9.80	51.79	74.00	-22.21	PK	Horizontal
3263.17	50.09	44.70	6.70	28.20	-9.80	40.29	54.00	-13.71	AV	Horizontal
4880.03	58.39	44.20	9.04	31.60	-3.56	54.83	74.00	-19.17	PK	Vertical
4880.03	49.29	44.20	9.04	31.60	-3.56	45.73	54.00	-8.27	AV	Vertical
4879.99	59.31	44.20	9.04	31.60	-3.56	55.75	74.00	-18.25	PK	Horizontal
4879.99	50.05	44.20	9.04	31.60	-3.56	46.49	54.00	-7.51	AV	Horizontal
5357.22	48.03	44.20	9.86	32.00	-2.34	45.69	74.00	-28.31	PK	Vertical
5357.22	40.23	44.20	9.86	32.00	-2.34	37.89	54.00	-16.11	AV	Vertical
5357.39	48.06	44.20	9.86	32.00	-2.34	45.72	74.00	-28.28	PK	Horizontal
5357.08	38.43	44.20	9.86	32.00	-2.34	36.09	54.00	-17.91	AV	Horizontal
7320.85	54.42	43.50	11.40	35.50	3.40	57.82	74.00	-16.18	PK	Vertical
7320.85	44.97	43.50	11.40	35.50	3.40	48.37	54.00	-5.63	AV	Vertical
7320.33	54.20	43.50	11.40	35.50	3.40	57.60	74.00	-16.40	PK	Horizontal
7320.33	44.60	43.50	11.40	35.50	3.40	48.00	54.00	-6.00	AV	Horizontal



Report No.: STS2308324W02

				High Char	nnel (GFSK/	2480 MHz)				
3264.70	62.20	44.70	6.70	28.20	-9.80	52.40	74.00	-21.60	PK	Vertical
3264.70	50.31	44.70	6.70	28.20	-9.80	40.51	54.00	-13.49	AV	Vertical
3264.79	60.83	44.70	6.70	28.20	-9.80	51.03	74.00	-22.97	PK	Horizontal
3264.79	50.96	44.70	6.70	28.20	-9.80	41.16	54.00	-12.84	AV	Horizontal
4960.43	58.78	44.20	9.04	31.60	-3.56	55.22	74.00	-18.78	PK	Vertical
4960.43	49.89	44.20	9.04	31.60	-3.56	46.33	54.00	-7.67	AV	Vertical
4960.31	59.41	44.20	9.04	31.60	-3.56	55.85	74.00	-18.15	PK	Horizontal
4960.31	49.67	44.20	9.04	31.60	-3.56	46.11	54.00	-7.89	AV	Horizontal
5359.84	49.21	44.20	9.86	32.00	-2.34	46.86	74.00	-27.14	PK	Vertical
5359.84	40.26	44.20	9.86	32.00	-2.34	37.92	54.00	-16.08	AV	Vertical
5359.86	47.13	44.20	9.86	32.00	-2.34	44.78	74.00	-29.22	PK	Horizontal
5359.86	39.39	44.20	9.86	32.00	-2.34	37.05	54.00	-16.95	AV	Horizontal
7439.77	54.86	43.50	11.40	35.50	3.40	58.26	74.00	-15.74	PK	Vertical
7439.77	43.93	43.50	11.40	35.50	3.40	47.33	54.00	-6.67	AV	Vertical
7439.70	53.69	43.50	11.40	35.50	3.40	57.09	74.00	-16.91	PK	Horizontal
7439.70	43.50	43.50	11.40	35.50	3.40	46.90	54.00	-7.10	AV	Horizontal

Note:

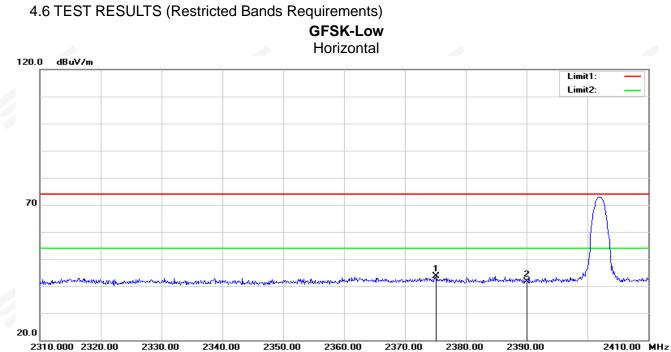
1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

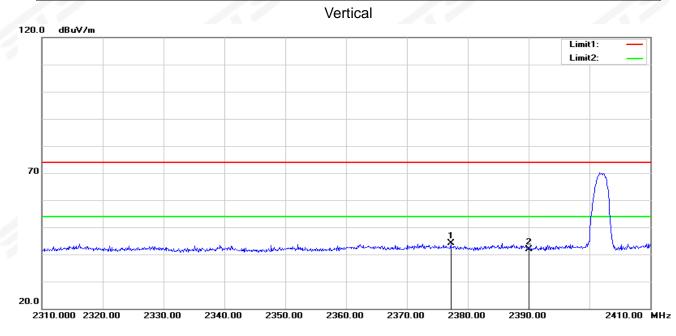
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.100	39.59	4.12	43.71	74.00	-30.29	peak
2	2390.000	37.32	4.34	41.66	74.00	-32.34	peak

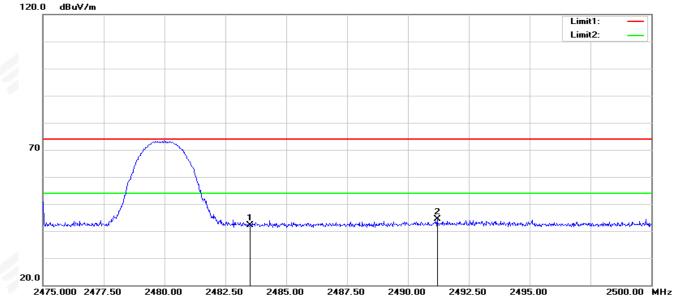


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2377.200	39.93	4.15	44.08	74.00	-29.92	peak
2	2390.000	37.54	4.34	41.88	74.00	-32.12	peak
÷		100		100			199

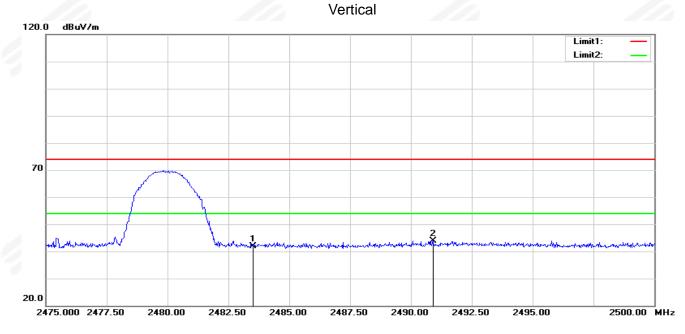


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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.52	4.60	42.12	74.00	-31.88	peak
2	2491.200	39.69	4.63	44.32	74.00	-29.68	peak



	(8411-)				Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.35	4.60	41.95	74.00	-32.05	peak
2	2490.900	39.28	4.63	43.91	74.00	-30.09	peak
					-		1.1
1							



5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
	Lower Band Edge: 2300 – 2407 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

5.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna termina is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

5.5 TEST RESULTS



6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247,Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥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 channel bandwidth.
- 3. Set the RBW to: 100 kHz \ge RBW \ge 3 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.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

6.5 TEST RESULTS



7.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

7.5 TEST RESULTS



8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS		

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW \geq DTS bandwidth.

b) Set VBW \geq [3 × RBW].

c) Set span ≥ [3 × RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW \geq [3 × RBW].

c) Set the span \geq [1.5 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.





8.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

8.5 TEST RESULTS





9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

9.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



APPENDIX 1-TEST DATA

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	61.28	2.13	2.61
NVNT	BLE 1M	2440	61.26	2.13	2.61
NVNT	BLE 1M	2480	61.26	2.13	2.61











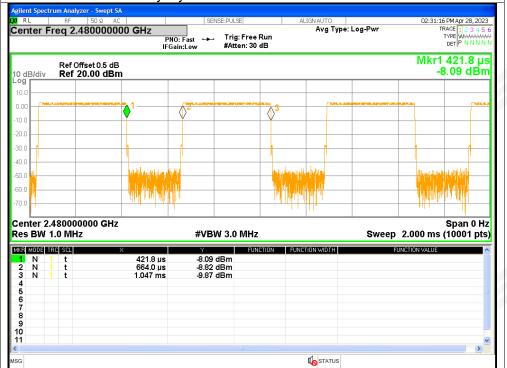


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Test Graphs Duty Cycle NVNT BLE 1M 2402MHz 33 AM Apr 28. Center Freq 2.402000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB DET P N N N N PNO: Fast IFGain:Low Mkr1 294.2 µs -8.37 dBm Ref Offset 0.5 dB Ref 20.00 dBm 0 dB/div **∂**3 0.0 (² 30.0 40.C ويقفا وأنها وأواله الأودة أجاسيون الموران 50.0 البالا Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 2.000 ms (10001 pts) #VBW 3.0 MHz MKR MODE TRC SCL LINCTION FUNCTION WIDTH EUNCTION VALUE -8.37 dBm -8.87 dBm -7.48 dBm 294.2 μs 536.2 μs 919.2 μs N N N 2 3 4 5 6 7 8 9 10 11 > **I**STATUS SG Duty Cycle NVNT BLE 1M 2440MHz RI D1 PM Apr 28, 2023 Center Freq 2.440000000 GHz Avg Type: Log-Pwr TRACE PNO: Fast ↔→ IFGain:Low Trig: Free Run #Atten: 30 dB DET P N N N N Mkr1 231.8 µs -7.88 dBm Ref Offset 0.5 dB Ref 20.00 dBm 0 dB(di) 0.0 仚 $\langle \rangle$ 10.0 20.0 30.0 40.0 الماله A Mark Hiller M والموتقل والدنياه 50 I Center 2.440000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 2.000 ms (10001 pts) #VBW 3.0 MHz MKR MODE TRC SCL FUNCTION VALUE FUNCTION FUNCTION WIDTH -7.88 dBm -7.92 dBm -9.69 dBm 231.8 µs 474.0 µs 857.0 µs N N N 2 3 4 5 6 7 8 9 10 t t **I**STATUS



Duty Cycle NVNT BLE 1M 2480MHz

















2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	2.75	2.13	4.88	<=30	Pass
NVNT	BLE 1M	2440	2.88	2.13	5.01	<=30	Pass
NVNT	BLE 1M	2480	2.47	2.13	4.6	<=30	Pass









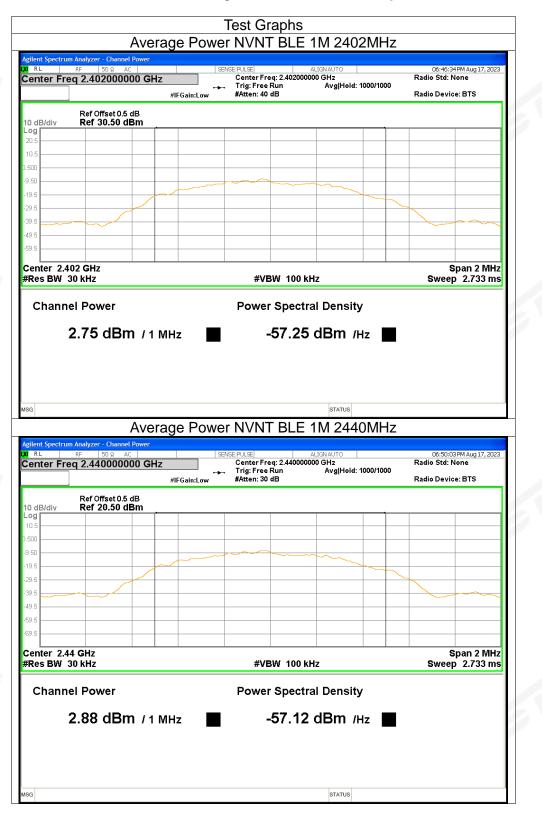






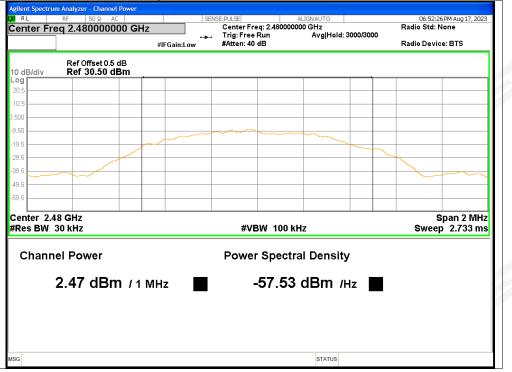








Average Power NVNT BLE 1M 2480MHz





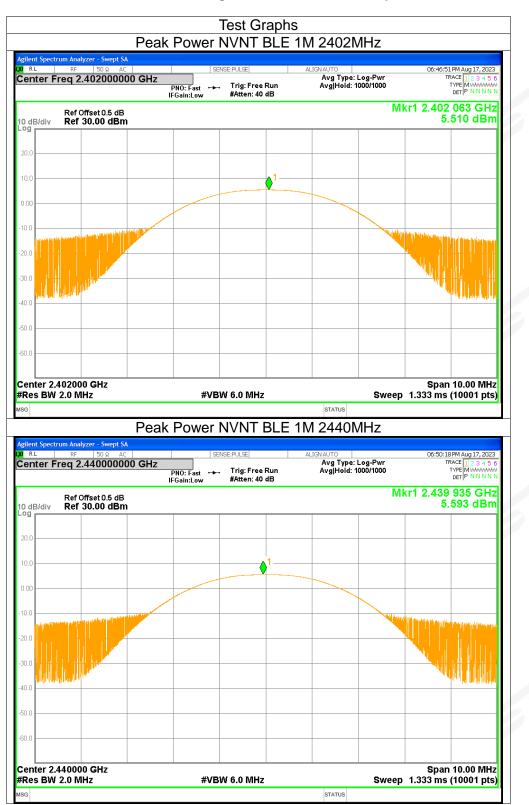
3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	5.51	<=30	Pass
NVNT	BLE 1M	2440	5.59	<=30	Pass
NVNT	BLE 1M	2480	5.22	<=30	Pass





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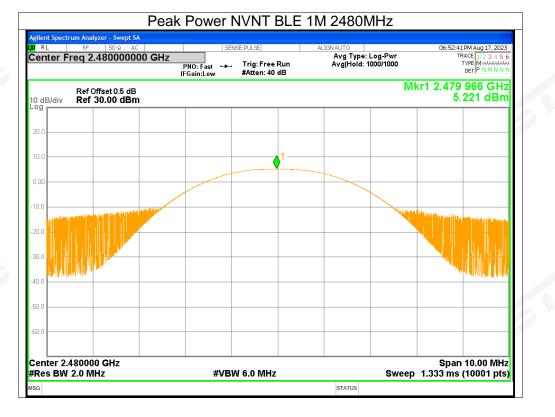


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E.



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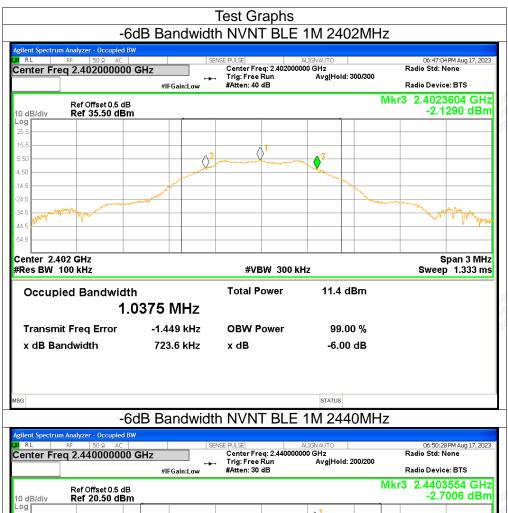


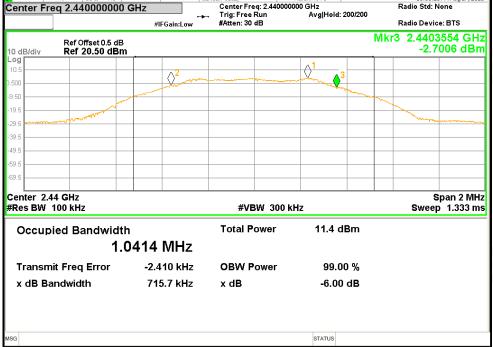


4. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.7236	>=0.5	Pass
NVNT	BLE 1M	2440	0.7157	>=0.5	Pass
NVNT	BLE 1M	2480	0.7203	>=0.5	Pass

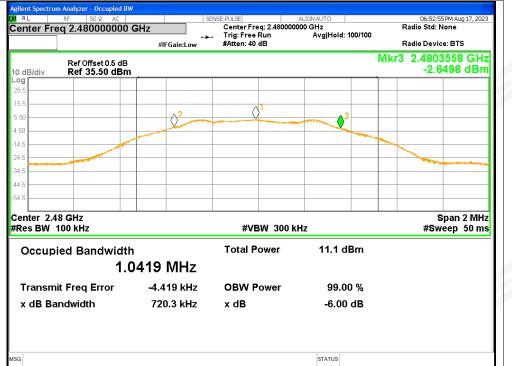








-6dB Bandwidth NVNT BLE 1M 2480MHz



















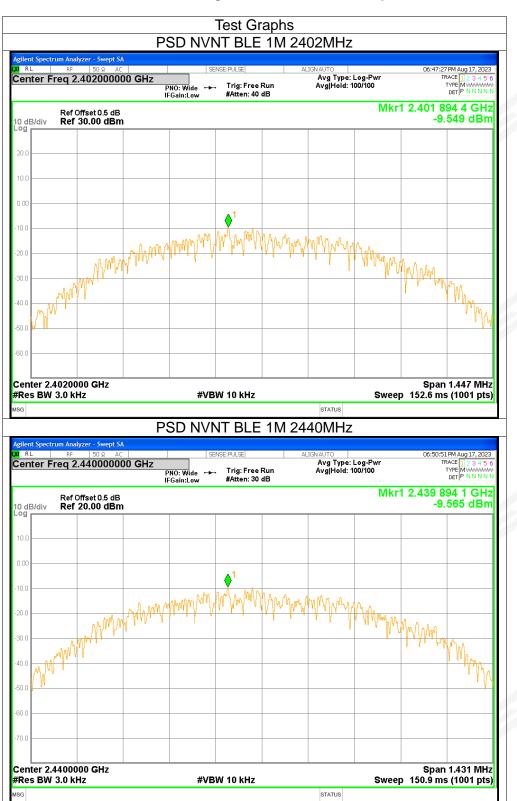


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-9.55	<=8	Pass
NVNT	BLE 1M	2440	-9.57	<=8	Pass
NVNT	BLE 1M	2480	-10.09	<=8	Pass



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RL RF 50Ω AC enter Freq 2.480000000 GH	Z PNO: Wide IFGain:Low #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	06:53:18 PM Aug 17, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
Ref Offset 0.5 dB dB/div Ref 30.00 dBm g		Mk	r1 2.479 969 7 GHz -10.090 dBm
0			
0			
0			
Mr is man	Hur allowing a rate real a little	Mary My RY War A Manual Mary	
			MINAM MALA
nter 2.4800000 GHz es BW 3.0 kHz	#VBW 10 kHz	Swee	Span 1.441 MHz p 151.9 ms (1001 pts)



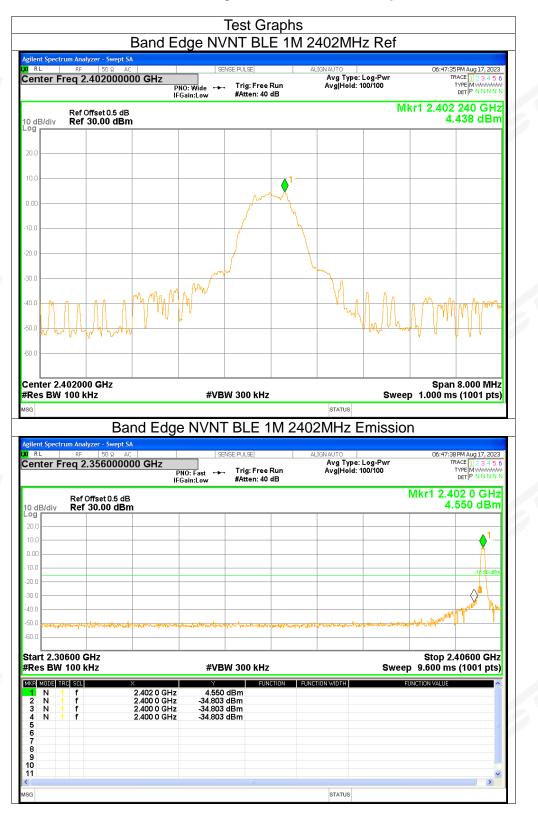
6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-39.24	<=-20	Pass
NVNT	BLE 1M	2480	-41.48	<=-20	Pass





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1



24 PM Aug 17, 2023 TRACE 1 2 3 4 5 (TYPE M WWWW DET P N N N N B L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 40 dB PNO: Wide +++ IFGain:Low Mkr1 2.480 024 GHz Ref Offset 0.5 dB Ref 30.00 dBm 3.635 dBm 10 dB/div 0.00 10.0 20. 30.0 MAN 40.0 50 Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Band Edge NVNT BLE 1M 2480MHz Emission Swept SA ctrum Analyz R L Center Freg 2.526000000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 40 dB Mkr1 2.480 3 GHz Ref Offset 0.5 dB Ref 30.00 dBm 4.121 dBm 10 dB/div 20.1 0.00 -16.36 d \Diamond 30.0 40.0 $\langle \rangle$ Intern Start 2.47600 GHz Stop 2.57600 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.480 3 GHz 2.483 5 GHz 2.500 0 GHz 2.483 5 GHz 4.121 dBm -37.850 dBm -50.959 dBm -37.850 dBm N N N 2 3 4 5 6 7 8 9 10 11 STATUS SG

Band Edge NVNT BLE 1M 2480MHz Ref



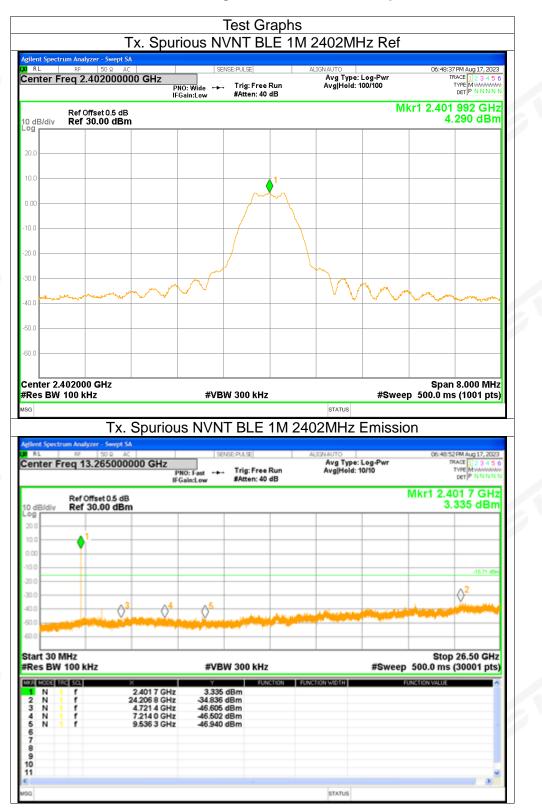
7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-39.12	<=-20	Pass
NVNT	BLE 1M	2440	-45.1	<=-20	Pass
NVNT	BLE 1M	2480	-40.22	<=-20	Pass





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59 PM Aug 17, 2023 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N B L Center Freq 2.440000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB PNO: Wide ↔ IFGain:Low Mkr1 2.440 000 GHz Ref Offset 0.5 dB Ref 20.00 dBm 4.422 dBm 10 dB/div 20.0 30. 4N (50.0 60 Center 2.440000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 1M 2440MHz Emission ilent Spectrum Analyzer - Swept SA 06:51:35 PM Aug 17, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N R L Center Freg 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.439 7 GHz Ref Offset 0.5 dB 4.052 dBm 10 dB/div Ref 20.00 dBm 0.0 י חכ 30.0 $\langle \rangle$ 40.0 \bigcirc^{5} 50. $\langle \rangle^4$ ()50 Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.530 s (30001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE * 2.439 7 GHz 3.659 9 GHz 5.004 6 GHz 7.381 6 GHz 9.760 4 GHz 4.052 dBm -40.682 dBm -57.051 dBm -57.619 dBm -56.253 dBm N N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG

Tx. Spurious NVNT BLE 1M 2440MHz Ref



38 PM Aug 17, 2023 TRACE 1 2 3 4 5 (TYPE M WWWW DET P N N N N B L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 500/500 Trig: Free Run #Atten: 40 dB PNO: Wide IFGain:Low -----Mkr1 2.480 240 GHz Ref Offset 0.5 dB Ref 30.00 dBm 4.152 dBm 10 dB/div 0.00 10.0 20. 30.0 40.0 50.0 Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 1M 2480MHz Emission - Swept SA ilent Spectrum Analyzer 06:54:14 PM Aug 17, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N R L Center Freg 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 40 dB Mkr1 2.480 2 GHz Ref Offset 0.5 dB 3.086 dBm 10 dB/div Ref 30.00 dBm 20 0.00 √² 30.0 40.0 $\langle\rangle^{5}$ $\langle \rangle$ Stop 26.50 GHz Sweep 2.530 s (30001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.480 2 GHz 24.845 6 GHz 5.144 0 GHz 7.629 5 GHz 9.831 8 GHz 3.086 dBm -36.071 dBm -47.999 dBm -47.625 dBm -48.367 dBm N N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG

Tx. Spurious NVNT BLE 1M 2480MHz Ref



APPENDIX 2- EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

******END OF THE REPORT****