

Radio Test Report

Report No.: STS2504029W05

Issued for

Shenzhen NuPhy Technology Co., LTD

Room 215, Internet of Things Demonstration Park, No. 6 Minhuan Road, Longhua District, Shenzhen, China

Product Name:	Keyboard
Brand Name:	NuPhy
Model Name:	KICK75
Series Model(s):	N/A
FCC ID:	2BE3O-KICK75
Test Standards:	FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



TEST REPORT

Applicant's Name:	Shenzhen NuPhy Technology Co., LTD
Address:	Room 215, Internet of Things Demonstration Park, No. 6 Minhuan Road, Longhua District, Shenzhen, China
Manufacturer's Name:	SHENZHEN ARBITER TECHNOLOGY CO., LTD
Address:	Floor 2, 3 and 4, Bldg. A, Meisheng Industrial Park, Chongqing Rd., Fuhai St., Baoan Dist., Shenzhen, Guangdong, China
Product Description	
Product Name:	Keyboard
Brand Name:	NuPhy
Model Name:	. KICK75
Series Model(s)::	N/A

Test Standards FCC Part15.247

Test Procedure ANSI C63.10-2020

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.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of receipt of test item:	07 Apr. 2025
Date (s) of performance of tests:	07 Apr. 2025 ~ 21 Apr. 2025
Date of Issue:	21 Apr. 2025
Test Result:	Pass

Testing Engineer

13u

(Aaron Bu)

Technical Manager

(Skylar Li)

TESTING APPROVAL

Authorized Signatory :

(Bovey Yang)

Date of Test



Table of Contents

1. SUMMARY OF TEST RESULTS 1.1 TEST FACTORY 1.2 MEASUREMENT UNCERTAINTY	6 7 7
 2. GENERAL INFORMATION 2.1 GENERAL DESCRIPTION OF THE EUT 2.2 DESCRIPTION OF THE TEST MODES 2.3 TEST SOFTWARE AND POWER LEVEL 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS 2.6 EQUIPMENTS LIST 	8 8 10 10 5D 11 12 13
 3. EMC EMISSION TEST 3.1 CONDUCTED EMISSION MEASUREMENT 3.2 TEST PROCEDURE 3.3 TEST SETUP 3.4 EUT OPERATING CONDITIONS 3.5 TEST RESULTS 	14 14 15 15 15 16
 4. RADIATED EMISSION MEASUREMENT 4.1 RADIATED EMISSION LIMITS 4.2 TEST PROCEDURE 4.3 TEST SETUP 4.4 EUT OPERATING CONDITIONS 4.5 FIELD STRENGTH CALCULATION 4.6 TEST RESULTS 	 18 20 21 21 22 22
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION 5.1 LIMIT 5.2 TEST PROCEDURE 5.3 TEST SETUP 5.4 EUT OPERATION CONDITIONS 5.5 TEST RESULTS	35 35 35 35 35 35
6. POWER SPECTRAL DENSITY TEST 6.1 LIMIT 6.2 TEST PROCEDURE 6.3 TEST SETUP	36 36 36 36



Table of Contents

6.4 EUT OPERATION CONDITIONS	36
6.5 TEST RESULTS	36
7. BANDWIDTH TEST	37
7.1 LIMIT	37
7.2 TEST PROCEDURE	37
7.3 TEST SETUP	37
7.4 EUT OPERATION CONDITIONS	37
7.5 TEST RESULTS	37
8. PEAK OUTPUT POWER TEST	38
8.1 LIMIT	38
8.2 TEST PROCEDURE	38
8.3 TEST SETUP	39
8.4 EUT OPERATION CONDITIONS	39
8.5 TEST RESULTS	39
9. ANTENNA REQUIREMENT	40
9.1 STANDARD REQUIREMENT	40
9.2 EUT ANTENNA	40
APPENDIX 1-TEST DATA	41
APPENDIX 2- EUT TEST PHOTO	73



Page 5 of 73

Report No.: STS2504029W05

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	21 Apr. 2025	STS2504029W05	ALL	Initial Issue
	1			1



1. SUMMARY OF TEST RESULTS

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

Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(3)	Output Power	PASS	
15.209	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	-
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 C63.10-2020.



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

Page 7 of 73

IC test Firm Registration Number: 12108A

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	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Power Spectral Density, conducted	±1.245dB
11	Duty Cycle	±3.2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Keyboard			
NuPhy			
KICK75			
N/A			
N/A			
The EUT is a Keybo	bard		
Operation Frequency:	2402~2480 MHz		
Modulation Type:	GFSK		
Radio Technology:	BLE		
Bluetooth			
Configuration:	LE(Support 1M PHY, 2M PHY)		
Number Of Channel:	40		
Antenna Type:	FPC Antenna		
Antenna Gain (dBi)	2.82dBi		
Please refer to the Note 3.			
Input: DC 5V 1.0A			
N/A			
Rated Voltage: 3.85V Charge Limit Voltage: 4.4V Capacity: 2500mAH			
VER1.1			
V1.0.1			
Please refer to the Note 1.			
	NuPhy KICK75 N/A N/A The EUT is a Keybor Operation Frequency: Modulation Type: Radio Technology: Bluetooth Configuration: Number Of Channel: Antenna Type: Antenna Gain (dBi) Please refer to the N Input: DC 5V 1.0A N/A Rated Voltage: 3.85 Charge Limit Voltag Capacity: 2500mAH VER1.1 V1.0.1		

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.



3.									
		Channel List							
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)	
1	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)	1M PHY /GFSK
Mode 2	TX CH19(2440MHz)	1M PHY /GFSK
Mode 3	TX CH39(2480MHz)	1M PHY /GFSK

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2M PHY /GFSK
Mode 5	TX CH19(2440MHz)	2M PHY /GFSK
Mode 6	TX CH39(2480MHz)	2M PHY /GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable 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.

For AC Conducted Emission

Test Case

AC Conducted Emission Mode 7 : Keeping BT TX

2.3 TEST SOFTWARE AND POWER LEVEL

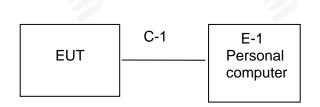
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE(With	BLE_1M PHY	GFSK	2.82	0	RFTest_0509_ble_
2M PHY)	BLE_2M PHY	GFSK	2.02	0	hopping_boxed

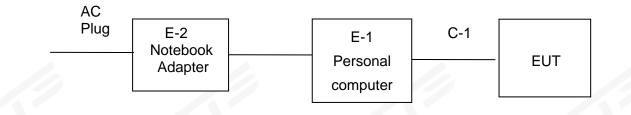


2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Personal computer	DELL	Inspiron 3501	N/A
E-2	Notebook Adapter	DELL	HA65NS5-00	N/A
C-1	USB Cable	ZTC	NB-A515A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Shielded	NO	150cm	N/A

Note:

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



2.6 EQUIPMENTS LIST

	RF Radiation Test Equipment							
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until			
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23			
Pre-Amplifier(0.1M-3GHz)			060665	2025.02.22	2026.02.21			
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22			
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21			
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2026.02.24			
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29			
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23			
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09			
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A			
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22			
Switch Control Box	N/A	N/A	N/A	N/A	N/A			
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A			
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	HONGSHENGFENG	DPS-305AF	17064939	2024.09.23	2025.09.22			
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE						
	Condu	ction Test equipment						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until			
Test Receiver	R&S	ESCI	101427	2024.09.24	2025.09.23			
Limtter	CYBERTEK	EM5010	N/A	2024.09.24	2025.09.23			
LISN	R&S	ENV216	101242	2024.09.24	2025.09.23			
LISN	EMCO	3810/2NM	23625	2024.09.24	2025.09.23			
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23			
Test SW	EZ-EMC		Ver.STSLAB-03	A1 CE				
	RF	Connected Test						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until			
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21			
Power detector group	Keysight	NW2021031	N/A	2024.09.23	2025.09.22			
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A			
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23			
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

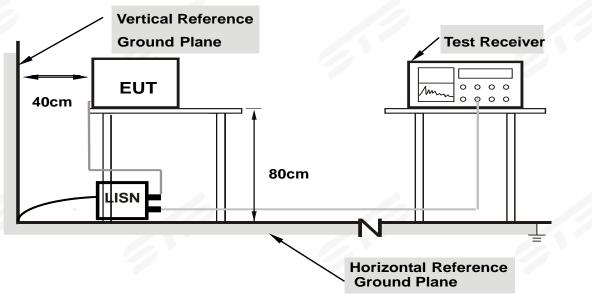
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



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

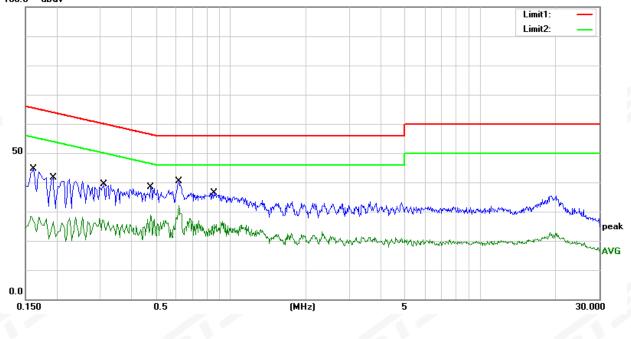
Temperature:	25.1 ℃	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1620	24.73	19.78	44.51	65.36	-20.85	QP
2	0.1620	8.69	19.78	28.47	55.36	-26.89	AVG
3	0.1940	21.88	19.77	41.65	63.86	-22.21	QP
4	0.1940	6.86	19.77	26.63	53.86	-27.23	AVG
5	0.3100	19.22	20.20	39.42	59.97	-20.55	QP
6	0.3100	6.91	20.20	27.11	49.97	-22.86	AVG
7	0.4780	18.40	20.01	38.41	56.37	-17.96	QP
8	0.4780	8.77	20.01	28.78	46.37	-17.59	AVG
9	0.6180	20.36	19.90	40.26	56.00	-15.74	QP
10	0.6180	12.32	19.90	32.22	46.00	-13.78	AVG
11	0.8540	16.54	19.79	36.33	56.00	-19.67	QP
12	0.8540	6.88	19.79	26.67	46.00	-19.33	AVG

Remark:

All readings are Quasi-Peak and Average values
 Margin = Result (Result =Reading + Factor)–Limit
 Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



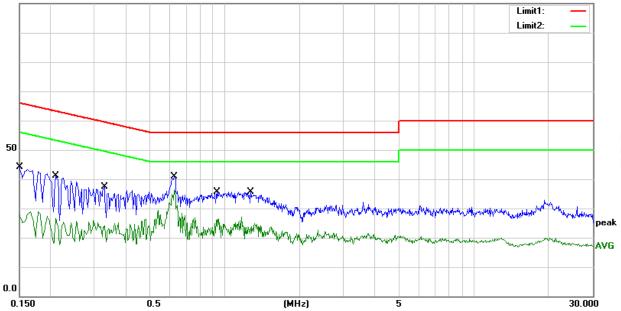


Report No.: STS2504029W05

Temperature:	25.1 ℃	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 7		
		6.2	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1500	24.42	19.74	44.16	66.00	-21.84	QP
2	0.1500	8.77	19.74	28.51	56.00	-27.49	AVG
3	0.2100	21.24	19.90	41.14	63.21	-22.07	QP
4	0.2100	7.41	19.90	27.31	53.21	-25.90	AVG
5	0.3300	17.23	20.19	37.42	59.45	-22.03	QP
6	0.3300	5.71	20.19	25.90	49.45	-23.55	AVG
7	0.6300	21.00	19.88	40.88	56.00	-15.12	QP
8	0.6300	16.40	19.88	36.28	46.00	-9.72	AVG
9	0.9300	15.81	19.79	35.60	56.00	-20.40	QP
10	0.9300	6.67	19.79	26.46	46.00	-19.54	AVG
11	1.2740	15.82	19.80	35.62	56.00	-20.38	QP
12	1.2740	7.34	19.80	27.14	46.00	-18.86	AVG

- All readings are Quasi-Peak and Average values
 Margin = Result (Result =Reading + Factor)–Limit
 Factor=LISN factor+Cable loss+Limiter (10dB)





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 C63.10-2020 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)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(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			



For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
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)		

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		
band)	120 KHz / 300 KHz	

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)		
Con Destricted hand			

For Restricted band

Spectrum Parameter	Setting	
Detector	Peak/AV	
0, , , , 0, , 5	Lower Band Edge: 2310 to 2410 MHz	
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz	
	1 MHz / 3 MHz(Peak)	
RB / VB	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

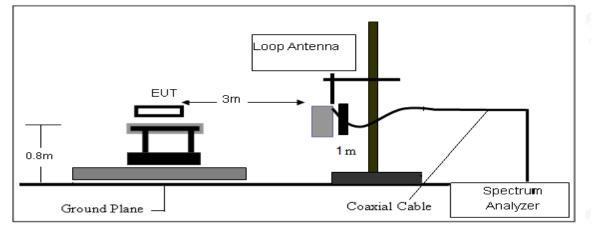
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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.

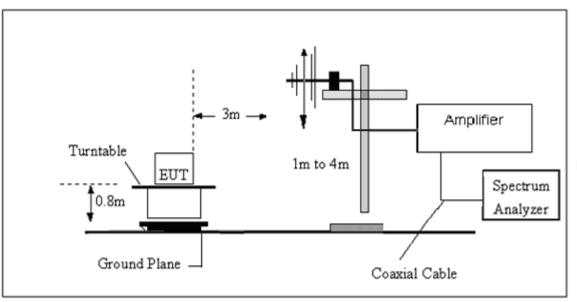


4.3 TEST SETUP

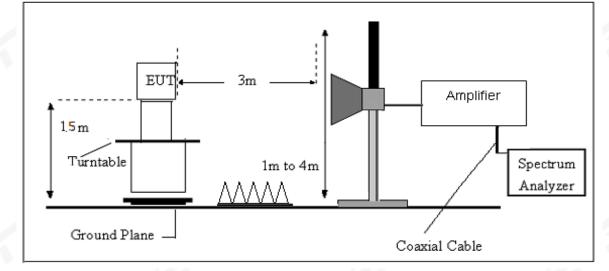
(A) Radiated Emission Test-Up Frequency Below 30MHz

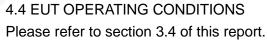


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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







4.5 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

4.6 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	23.4 ℃	Relative Humidtity:	60%RH
Test Voltage:	DC 3.85V From Battery	Polarization:	
Test Mode:	TX Mode		

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.



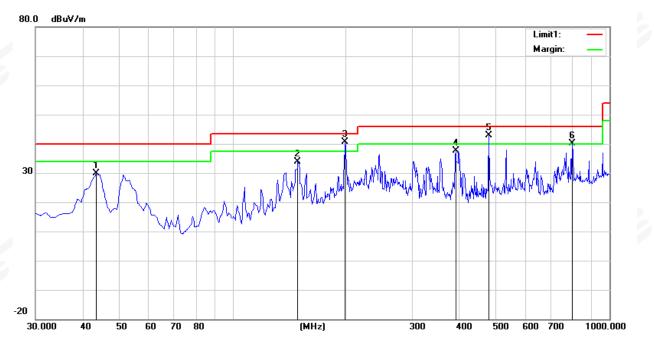
(30MHz -1000MHz)

1M	PHY
----	-----

Temperature:	23.4 ℃	Relative Humidity:	60%RH		
Test Voltage:	DC 3.85V From Battery	Phase:	Horizontal		
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	43.5800	49.85	-19.94	29.91	40.00	-10.09	peak
2	149.3100	52.42	-18.49	33.93	43.50	-9.57	peak
3	198.7800	61.80	-21.12	40.68	43.50	-2.82	peak
4	390.8400	49.21	-11.54	37.67	46.00	-8.33	peak
5	480.0800	51.54	-8.65	42.89	46.00	-3.11	peak
6	796.3000	42.17	-2.02	40.15	46.00	-5.85	peak

- Margin = Result (Result = Reading + Factor)–Limit
 Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



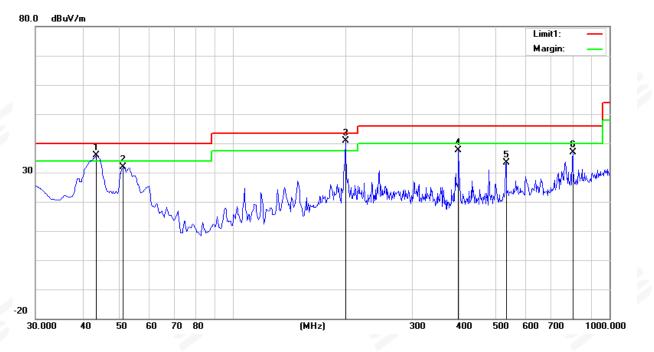


Report No.: STS2504029W05

Temperature:	23.4 ℃	Relative Humidity:	60%RH
Test Voltage:	DC 3.85V From Battery	Phase:	Vertical
Test Mode:	Mode 1/2/3 (Mode 3 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	43.5800	55.91	-19.94	35.97	40.00	-4.03	peak
2	51.3400	55.80	-23.82	31.98	40.00	-8.02	peak
3	199.7500	62.06	-21.11	40.95	43.50	-2.55	peak
4	398.6000	48.88	-11.20	37.68	46.00	-8.32	peak
5	533.4300	40.66	-7.25	33.41	46.00	-12.59	peak
6	799.2100	38.87	-2.04	36.83	46.00	-9.17	peak

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



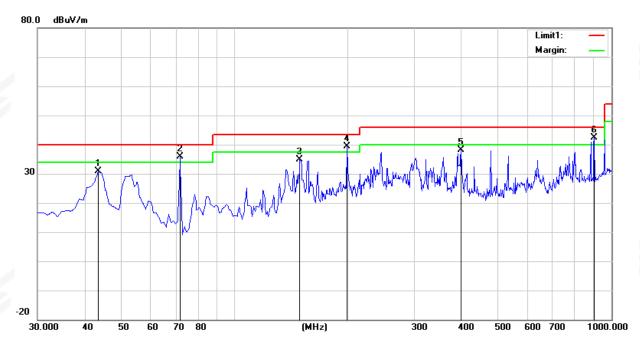


2M PHY

Temperature:	23.4 ℃	Relative Humidity:	60%RH
Test Voltage:	DC 3.85V From Battery	Phase:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 3 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	43.5800	50.84	-19.94	30.90	40.00	-9.10	peak
2	71.7100	60.35	-24.56	35.79	40.00	-4.21	peak
3	149.3100	53.36	-18.49	34.87	43.50	-8.63	peak
4	198.7800	60.55	-21.12	39.43	43.50	-4.07	peak
5	399.5700	49.25	-11.16	38.09	46.00	-7.91	peak
6	901.0600	42.76	-0.43	42.33	46.00	-3.67	peak

- Margin = Result (Result = Reading + Factor)–Limit
 Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



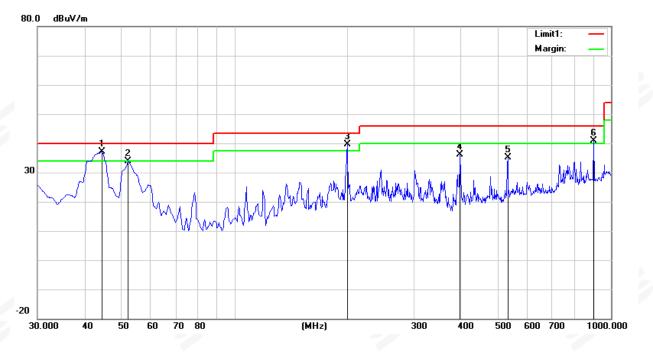


Report No.: STS2504029W05

Temperature:	23.4 ℃	Relative Humidity:	60%RH
Test Voltage:	DC 3.85V From Battery	Phase:	Vertical
Test Mode:	Mode 1/2/3 (Mode 3 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	44.5500	57.68	-20.43	37.25	40.00	-2.75	peak
2	52.3100	57.97	-24.19	33.78	40.00	-6.22	peak
3	199.7500	60.84	-21.11	39.73	43.50	-3.77	peak
4	398.6000	47.24	-11.20	36.04	46.00	-9.96	peak
5	533.4300	42.45	-7.25	35.20	46.00	-10.80	peak
6	903.0000	41.15	-0.37	40.78	46.00	-5.22	peak

- 1. Margin = Result (Result = Reading + Factor)–Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.





(1GHz-25GHz) Spurious emission Requirements

1M PHY 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 Ch	nannel (GFSK/	2402 MHz)		•		
3264.90	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Vertical
3264.90	51.23	44.70	6.70	28.20	-9.80	41.43	54.00	-12.57	AV	Vertical
3264.82	62.01	44.70	6.70	28.20	-9.80	52.21	74.00	-21.79	PK	Horizontal
3264.82	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Horizontal
4804.57	58.28	44.20	9.04	31.60	-3.56	54.72	74.00	-19.28	PK	Vertical
4804.57	50.51	44.20	9.04	31.60	-3.56	46.95	54.00	-7.05	AV	Vertical
4804.59	58.62	44.20	9.04	31.60	-3.56	55.06	74.00	-18.94	PK	Horizontal
4804.59	49.32	44.20	9.04	31.60	-3.56	45.76	54.00	-8.24	AV	Horizontal
5359.74	49.27	44.20	9.86	32.00	-2.34	46.93	74.00	-27.07	PK	Vertical
5359.74	40.01	44.20	9.86	32.00	-2.34	37.67	54.00	-16.33	AV	Vertical
5359.59	48.01	44.20	9.86	32.00	-2.34	45.67	74.00	-28.33	PK	Horizontal
5359.59	38.05	44.20	9.86	32.00	-2.34	35.70	54.00	-18.30	AV	Horizontal
7205.76	54.82	43.50	11.40	35.50	3.40	58.22	74.00	-15.78	PK	Vertical
7205.76	44.40	43.50	11.40	35.50	3.40	47.80	54.00	-6.20	AV	Vertical
7205.85	54.60	43.50	11.40	35.50	3.40	58.00	74.00	-16.00	PK	Horizontal
7205.85	44.09	43.50	11.40	35.50	3.40	47.49	54.00	-6.51	AV	Horizontal
	•	•		Middle 0	Channel (GFSK	/2440 MHz)	•			
3263.10	61.80	44.70	6.70	28.20	-9.80	52.00	74.00	-22.00	PK	Vertical
3263.10	51.21	44.70	6.70	28.20	-9.80	41.41	54.00	-12.59	AV	Vertical
3263.10	62.02	44.70	6.70	28.20	-9.80	52.22	74.00	-21.78	PK	Horizontal
3263.10	50.89	44.70	6.70	28.20	-9.80	41.09	54.00	-12.91	AV	Horizontal
4880.01	58.46	44.20	9.04	31.60	-3.56	54.90	74.00	-19.10	PK	Vertical
4880.01	49.79	44.20	9.04	31.60	-3.56	46.23	54.00	-7.77	AV	Vertical
4879.94	58.71	44.20	9.04	31.60	-3.56	55.15	74.00	-18.85	PK	Horizontal
4879.94	49.36	44.20	9.04	31.60	-3.56	45.80	54.00	-8.20	AV	Horizontal
5357.06	49.13	44.20	9.86	32.00	-2.34	46.79	74.00	-27.21	PK	Vertical
5357.06	39.93	44.20	9.86	32.00	-2.34	37.58	54.00	-16.42	AV	Vertical
5357.39	47.15	44.20	9.86	32.00	-2.34	44.81	74.00	-29.19	PK	Horizontal
5357.02	38.32	44.20	9.86	32.00	-2.34	35.98	54.00	-18.02	AV	Horizontal
7320.85	54.20	43.50	11.40	35.50	3.40	57.60	74.00	-16.40	PK	Vertical
7320.85	44.60	43.50	11.40	35.50	3.40	48.00	54.00	-6.00	AV	Vertical
7320.27	54.51	43.50	11.40	35.50	3.40	57.91	74.00	-16.09	PK	Horizontal
7320.27	43.49	43.50	11.40	35.50	3.40	46.89	54.00	-7.11	AV	Horizontal



Page 28 of 73

Report No.: STS2504029W05

				High Char	nnel (GFSK/	2480 MHz)				
3264.70	62.26	44.70	6.70	28.20	-9.80	52.46	74.00	-21.54	PK	Vertical
3264.70	50.03	44.70	6.70	28.20	-9.80	40.23	54.00	-13.77	AV	Vertical
3264.70	61.37	44.70	6.70	28.20	-9.80	51.57	74.00	-22.43	PK	Horizontal
3264.70	50.35	44.70	6.70	28.20	-9.80	40.55	54.00	-13.45	AV	Horizontal
4960.29	58.96	44.20	9.04	31.60	-3.56	55.40	74.00	-18.60	PK	Vertical
4960.29	50.50	44.20	9.04	31.60	-3.56	46.94	54.00	-7.06	AV	Vertical
4960.38	59.11	44.20	9.04	31.60	-3.56	55.55	74.00	-18.45	PK	Horizontal
4960.38	49.16	44.20	9.04	31.60	-3.56	45.60	54.00	-8.40	AV	Horizontal
5359.72	48.18	44.20	9.86	32.00	-2.34	45.84	74.00	-28.16	PK	Vertical
5359.72	39.65	44.20	9.86	32.00	-2.34	37.31	54.00	-16.69	AV	Vertical
5359.61	47.38	44.20	9.86	32.00	-2.34	45.04	74.00	-28.96	PK	Horizontal
5359.61	39.20	44.20	9.86	32.00	-2.34	36.85	54.00	-17.15	AV	Horizontal
7439.78	54.96	43.50	11.40	35.50	3.40	58.36	74.00	-15.64	PK	Vertical
7439.78	44.91	43.50	11.40	35.50	3.40	48.31	54.00	-5.69	AV	Vertical
7439.70	53.52	43.50	11.40	35.50	3.40	56.92	74.00	-17.08	PK	Horizontal
7439.70	43.97	43.50	11.40	35.50	3.40	47.37	54.00	-6.63	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.



2M PHY 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 Ch	nannel (GFSK/2	2402 MHz)				
3264.87	61.80	44.70	6.70	28.20	-9.80	52.00	74.00	-22.00	PK	Vertical
3264.87	51.00	44.70	6.70	28.20	-9.80	41.20	54.00	-12.80	AV	Vertical
3264.65	61.73	44.70	6.70	28.20	-9.80	51.93	74.00	-22.07	PK	Horizontal
3264.65	50.52	44.70	6.70	28.20	-9.80	40.72	54.00	-13.28	AV	Horizontal
4804.38	59.40	44.20	9.04	31.60	-3.56	55.84	74.00	-18.16	PK	Vertical
4804.38	49.97	44.20	9.04	31.60	-3.56	46.41	54.00	-7.59	AV	Vertical
4804.39	59.06	44.20	9.04	31.60	-3.56	55.50	74.00	-18.50	PK	Horizontal
4804.39	49.57	44.20	9.04	31.60	-3.56	46.01	54.00	-7.99	AV	Horizontal
5359.59	48.02	44.20	9.86	32.00	-2.34	45.67	74.00	-28.33	PK	Vertical
5359.59	38.99	44.20	9.86	32.00	-2.34	36.65	54.00	-17.35	AV	Vertical
5359.85	47.65	44.20	9.86	32.00	-2.34	45.30	74.00	-28.70	PK	Horizontal
5359.85	39.06	44.20	9.86	32.00	-2.34	36.71	54.00	-17.29	AV	Horizontal
7205.92	54.05	43.50	11.40	35.50	3.40	57.45	74.00	-16.55	PK	Vertical
7205.92	44.21	43.50	11.40	35.50	3.40	47.61	54.00	-6.39	AV	Vertical
7205.82	54.73	43.50	11.40	35.50	3.40	58.13	74.00	-15.87	PK	Horizontal
7205.82	44.89	43.50	11.40	35.50	3.40	48.29	54.00	-5.71	AV	Horizontal
	•	•	•	Middle 0	Channel (GFSK	/2440 MHz)	•			
3262.98	61.93	44.70	6.70	28.20	-9.80	52.13	74.00	-21.87	PK	Vertical
3262.98	51.02	44.70	6.70	28.20	-9.80	41.22	54.00	-12.78	AV	Vertical
3263.14	61.37	44.70	6.70	28.20	-9.80	51.57	74.00	-22.43	PK	Horizontal
3263.14	51.17	44.70	6.70	28.20	-9.80	41.37	54.00	-12.63	AV	Horizontal
4880.14	59.17	44.20	9.04	31.60	-3.56	55.61	74.00	-18.39	PK	Vertical
4880.14	49.49	44.20	9.04	31.60	-3.56	45.93	54.00	-8.07	AV	Vertical
4879.91	58.83	44.20	9.04	31.60	-3.56	55.27	74.00	-18.73	PK	Horizontal
4879.91	49.96	44.20	9.04	31.60	-3.56	46.40	54.00	-7.60	AV	Horizontal
5357.33	48.18	44.20	9.86	32.00	-2.34	45.84	74.00	-28.16	PK	Vertical
5357.33	40.39	44.20	9.86	32.00	-2.34	38.05	54.00	-15.95	AV	Vertical
5357.39	48.42	44.20	9.86	32.00	-2.34	46.07	74.00	-27.93	PK	Horizontal
5357.09	39.34	44.20	9.86	32.00	-2.34	37.00	54.00	-17.00	AV	Horizontal
7320.85	53.97	43.50	11.40	35.50	3.40	57.37	74.00	-16.63	PK	Vertical
7320.85	44.56	43.50	11.40	35.50	3.40	47.96	54.00	-6.04	AV	Vertical
7320.26	53.99	43.50	11.40	35.50	3.40	57.39	74.00	-16.61	PK	Horizontal
7320.26	43.53	43.50	11.40	35.50	3.40	46.93	54.00	-7.07	AV	Horizontal



Page 30 of 73

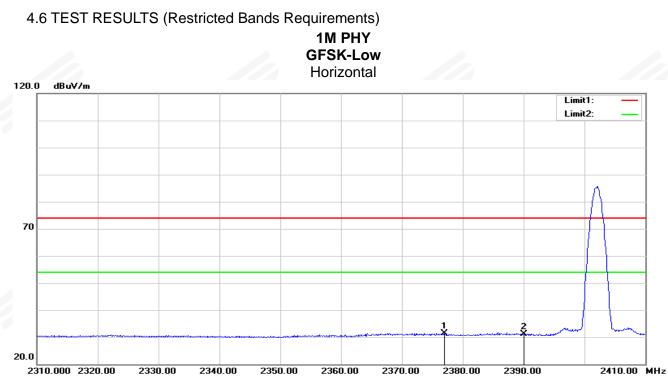
Report No.: STS2504029W05

				High Char	nnel (GFSK/	2480 MHz)				
3264.64	62.17	44.70	6.70	28.20	-9.80	52.37	74.00	-21.63	PK	Vertical
3264.64	50.33	44.70	6.70	28.20	-9.80	40.53	54.00	-13.47	AV	Vertical
3264.69	61.87	44.70	6.70	28.20	-9.80	52.07	74.00	-21.93	PK	Horizontal
3264.69	50.67	44.70	6.70	28.20	-9.80	40.87	54.00	-13.13	AV	Horizontal
4960.43	58.19	44.20	9.04	31.60	-3.56	54.63	74.00	-19.37	PK	Vertical
4960.43	50.28	44.20	9.04	31.60	-3.56	46.72	54.00	-7.28	AV	Vertical
4960.61	58.51	44.20	9.04	31.60	-3.56	54.95	74.00	-19.05	PK	Horizontal
4960.61	49.53	44.20	9.04	31.60	-3.56	45.97	54.00	-8.03	AV	Horizontal
5359.85	49.38	44.20	9.86	32.00	-2.34	47.04	74.00	-26.96	PK	Vertical
5359.85	39.97	44.20	9.86	32.00	-2.34	37.62	54.00	-16.38	AV	Vertical
5359.60	48.23	44.20	9.86	32.00	-2.34	45.89	74.00	-28.11	PK	Horizontal
5359.60	38.99	44.20	9.86	32.00	-2.34	36.65	54.00	-17.35	AV	Horizontal
7439.76	54.93	43.50	11.40	35.50	3.40	58.33	74.00	-15.67	PK	Vertical
7439.76	44.42	43.50	11.40	35.50	3.40	47.82	54.00	-6.18	AV	Vertical
7439.74	54.75	43.50	11.40	35.50	3.40	58.15	74.00	-15.85	PK	Horizontal
7439.74	44.25	43.50	11.40	35.50	3.40	47.65	54.00	-6.35	AV	Horizontal

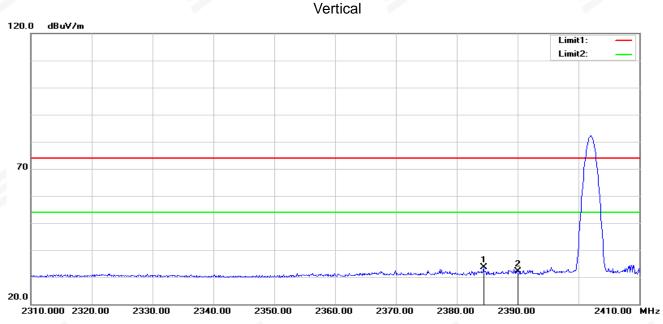
Note:

- 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.





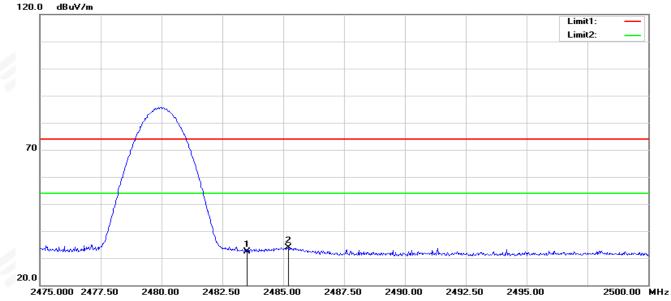
No.	Frequency	Reading	Correct	Result Limit		Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2377.000	27.32	4.14	31.46	54.00	-22.54	peak
2	2390.000	26.70	4.34	31.04	54.00	-22.96	peak



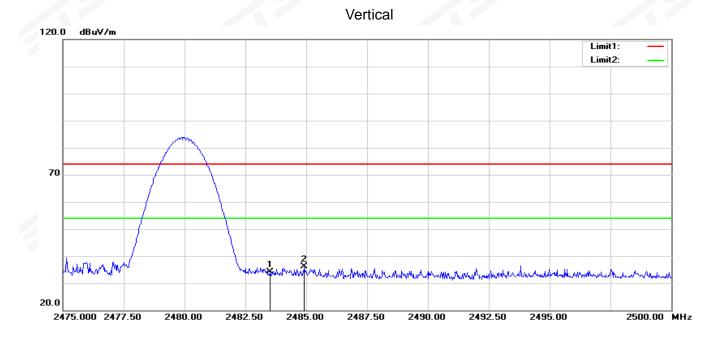
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2384.400	29.26	4.26	33.52	54.00	-20.48	peak
2	2390.000	27.88	4.34	32.22	54.00	-21.78	peak



GFSK-High Horizontal



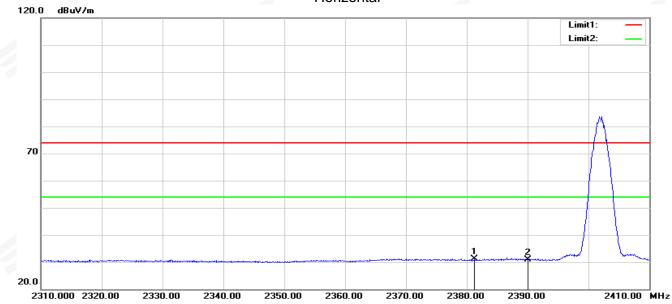
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	27.73	4.60	32.33	54.00	-21.67	peak
2	2485.200	29.17	4.61	33.78	54.00	-20.22	peak



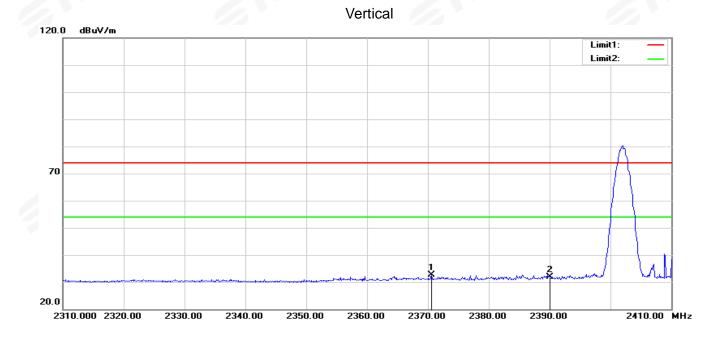
No.	Frequency	Reading	Correct	Result Limit		Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	29.57	4.60	34.17	54.00	-19.83	peak
2	2484.925	31.45	4.61	36.06	54.00	-17.94	peak



2M PHY GFSK-Low Horizontal



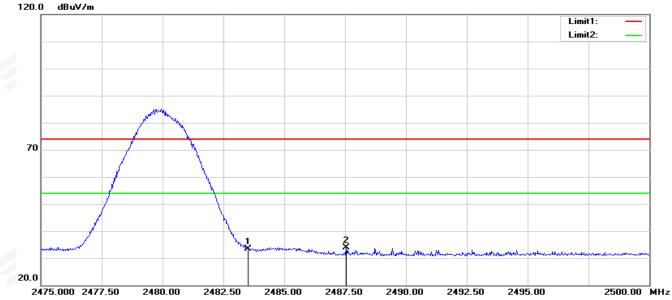
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.300	26.97	4.21	31.18	54.00	-22.82	peak
2	2390.000	26.52	4.34	30.86	54.00	-23.14	peak



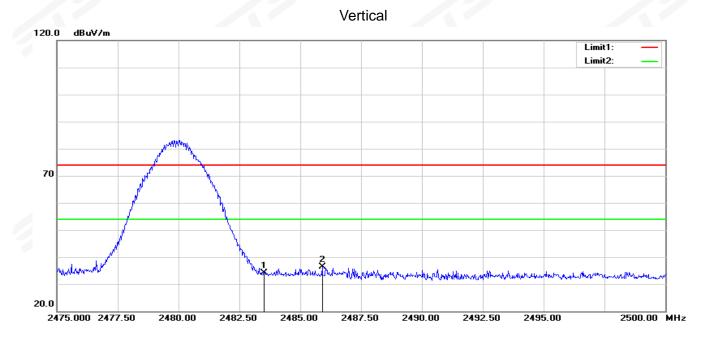
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
/	1	2370.600	28.50	4.05	32.55	54.00	-21.45	peak
	2	2390.000	27.52	4.34	31.86	54.00	-22.14	peak



GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	28.90	4.60	33.50	54.00	-20.50	peak
2	2487.550	29.34	4.62	33.96	54.00	-20.04	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	29.55	4.60	34.15	54.00	-19.85	peak
2	2485.900	31.66	4.61	36.27	54.00	-17.73	peak

Note: All modes have been measurement, only worst mode was reported.



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

Detector	Peak		
Stort/Stop Frequency	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

Note: The test data please refer to APPENDIX 1.



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

Note: The test data please refer to APPENDIX 1.



7. BANDWIDTH TEST

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 \geq 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 \geq 6 dB.

7.3 TEST SETUP



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

7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



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 averaging conducted output powe r of a DTS EUT.

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, foll owed by duty cycle correction. The procedure for this method is as follows:

a) Measure the duty cycle D of the transmitter output signal as described in 11.6.

b) Set span to at least 1.5 times the OBW.

c) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.

d) Set VBW \geq [3 × RBW].

e) Number of points in sweep \geq [2 × span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so th at narrowband signals are not lost between frequency bins.)

f) Sweep time = auto.

g) Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector modeh) Do not use sweep triggering. Allow the sweep to "free run."

i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of trac es to be averaged shall be increased above 100 as needed such that the average accurately re presents the true average over the ON and OFF periods of the transmitter.

j) Compute power by integrating the spectrum across the OBW of the signal using the instrument 's band power measurement function with band limits set equal to the OBW band edges. If the in strument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average o ver both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.

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 \geq [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.







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

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



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 FPC Antenna. It comply with the standard requirement.



APPENDIX 1-TEST DATA

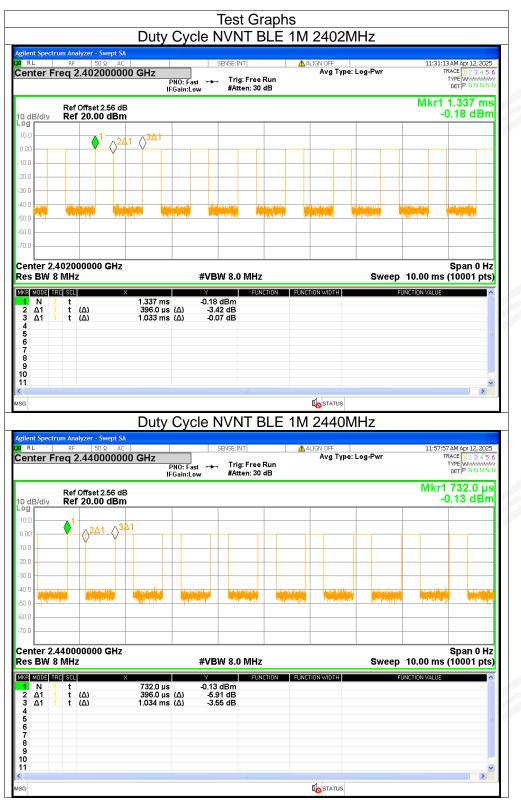
1. Duty Cycle

Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	0.396	1.033	38.33	4.16	2.53
NVNT	BLE 1M	2440	0.396	1.034	38.3	4.17	2.53
NVNT	BLE 1M	2480	0.396	1.034	38.3	4.17	2.53
NVNT	BLE 2M	2402	0.212	0.848	25	6.02	4.72
NVNT	BLE 2M	2440	0.212	0.85	24.94	6.03	4.72
NVNT	BLE 2M	2480	0.212	0.848	25	6.02	4.72



101, Building B, Zhuoke Science Park, No. 190 Chongqing Road, Zhancheng Shequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 3688 6288 Fax: +86-755 3688 6277 Http://www.stsapp.com E-mail:sts@stsapp.com

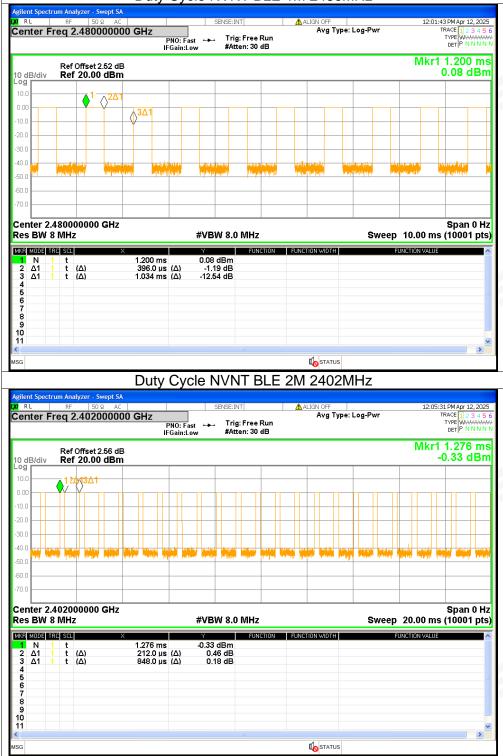






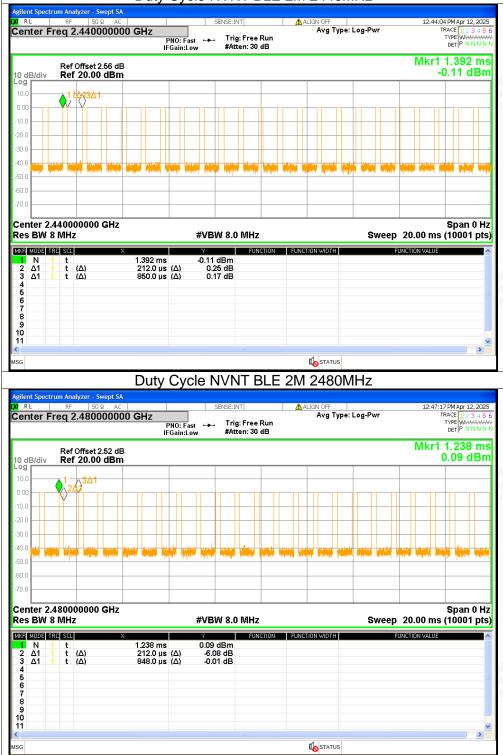
Duty Cycle NVNT BLE 1M 2480MHz

Page 43 of 73





Duty Cycle NVNT BLE 2M 2440MHz





2. Maximum Average Conducted Output Power

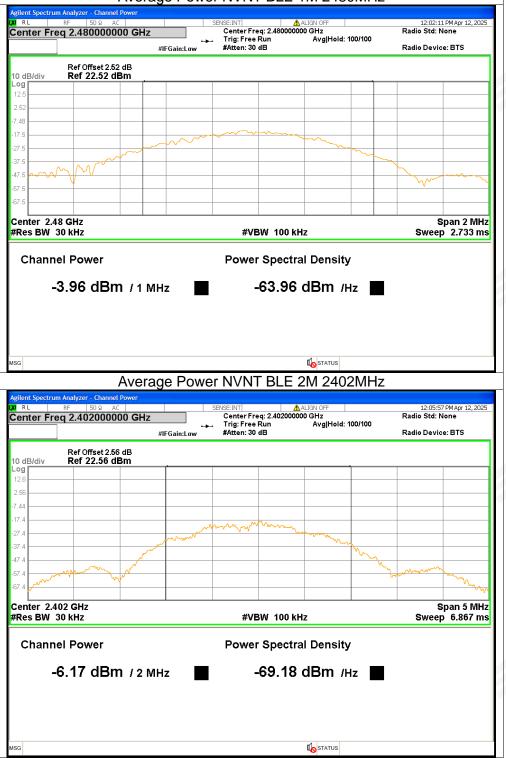
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-4.39	4.16	-0.23	<=30	Pass
NVNT	BLE 1M	2440	-4.37	4.17	-0.2	<=30	Pass
NVNT	BLE 1M	2480	-3.96	4.17	0.21	<=30	Pass
NVNT	BLE 2M	2402	-6.17	6.02	-0.15	<=30	Pass
NVNT	BLE 2M	2440	-6.06	6.03	-0.03	<=30	Pass
NVNT	BLE 2M	2480	-6.04	6.02	-0.02	<=30	Pass





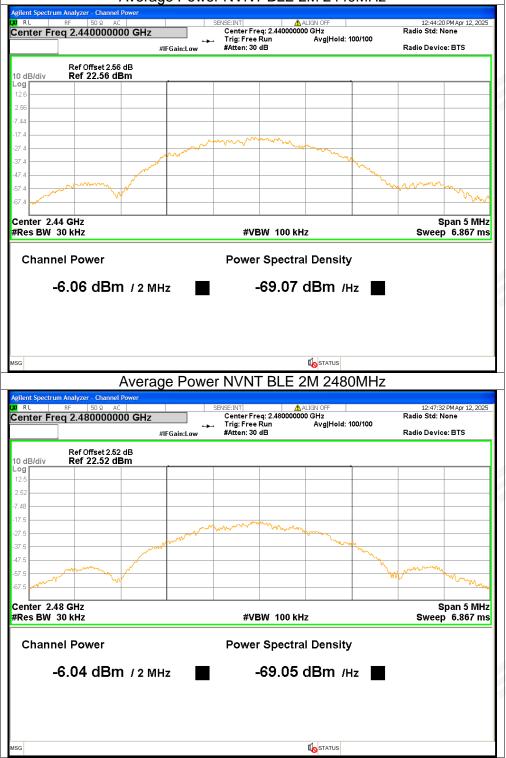


Average Power NVNT BLE 1M 2480MHz





Average Power NVNT BLE 2M 2440MHz

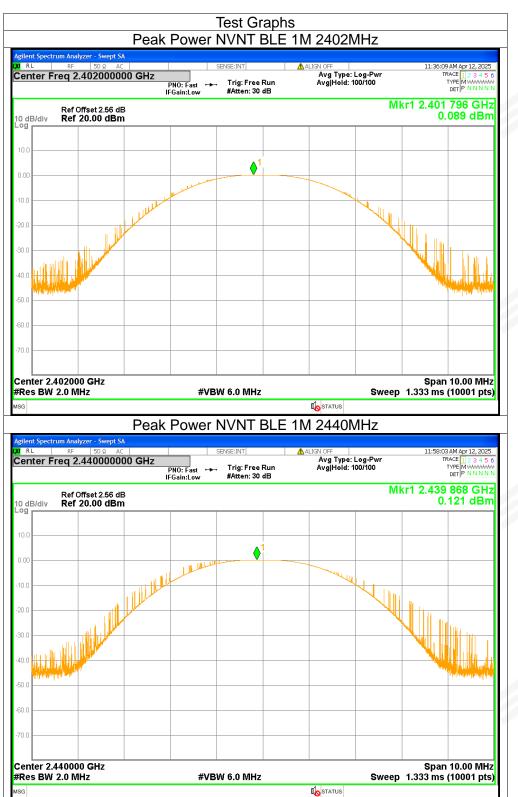




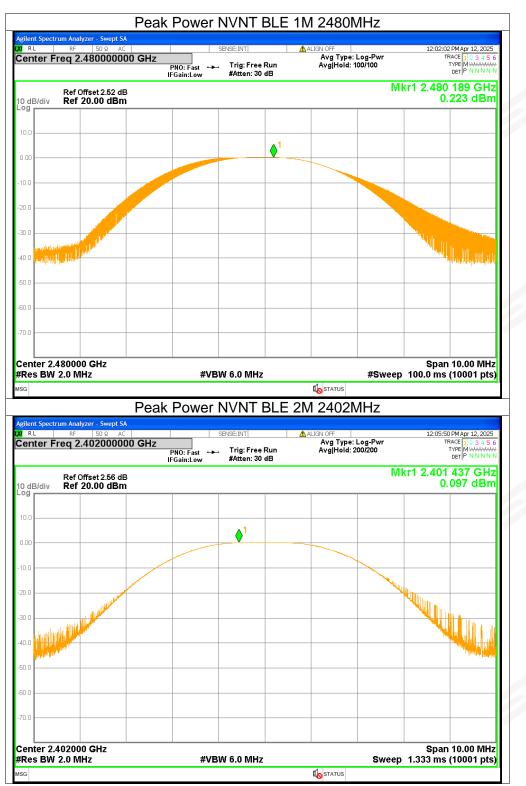
3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	0.09	<=30	Pass
NVNT	BLE 1M	2440	0.12	<=30	Pass
NVNT	BLE 1M	2480	0.22	<=30	Pass
NVNT	BLE 2M	2402	0.1	<=30	Pass
NVNT	BLE 2M	2440	0.12	<=30	Pass
NVNT	BLE 2M	2480	0.2	<=30	Pass

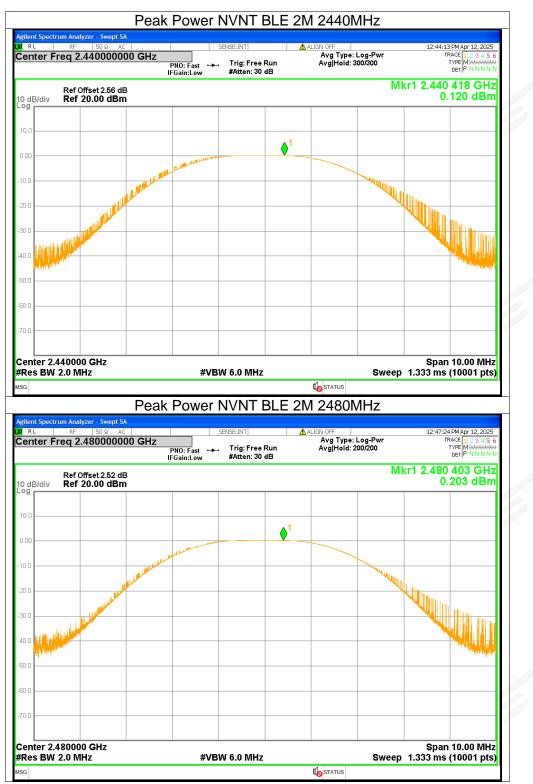










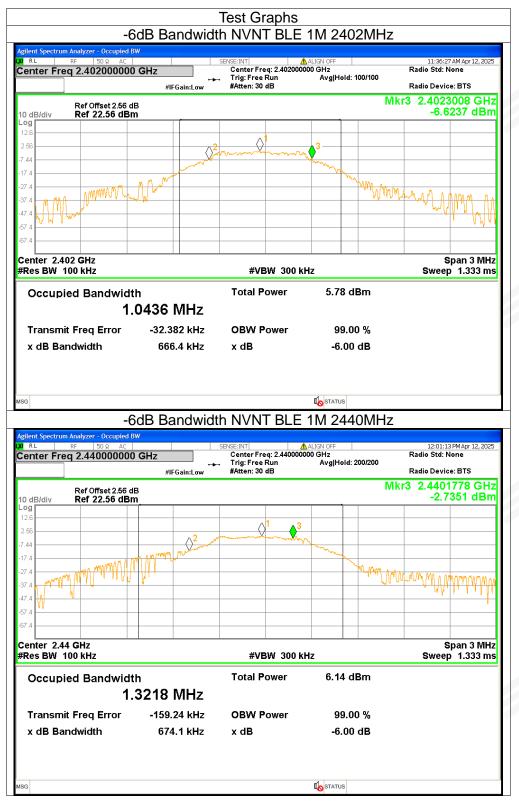




4. -6dB Bandwidth

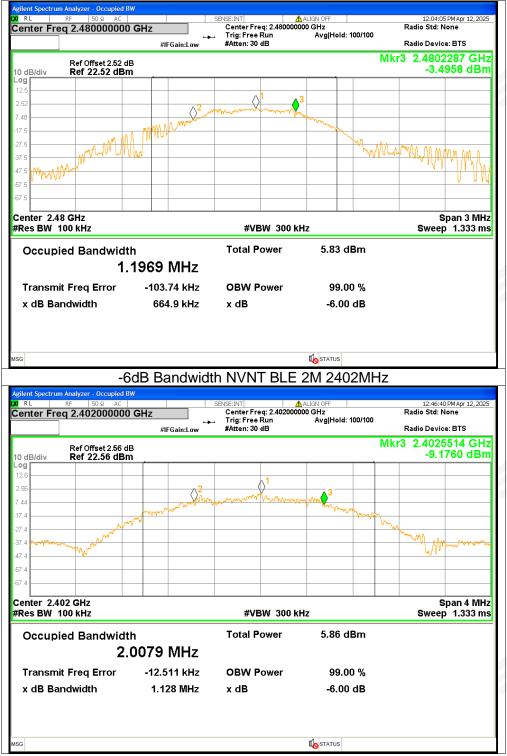
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.6664	>=0.5	Pass
NVNT	BLE 1M	2440	0.6741	>=0.5	Pass
NVNT	BLE 1M	2480	0.6649	>=0.5	Pass
NVNT	BLE 2M	2402	1.1278	>=0.5	Pass
NVNT	BLE 2M	2440	1.1421	>=0.5	Pass
NVNT	BLE 2M	2480	1.1134	>=0.5	Pass





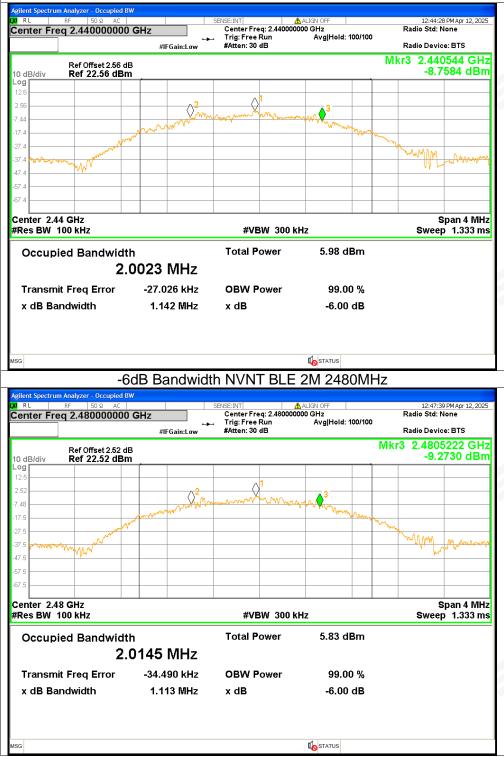


-6dB Bandwidth NVNT BLE 1M 2480MHz





-6dB Bandwidth NVNT BLE 2M 2440MHz

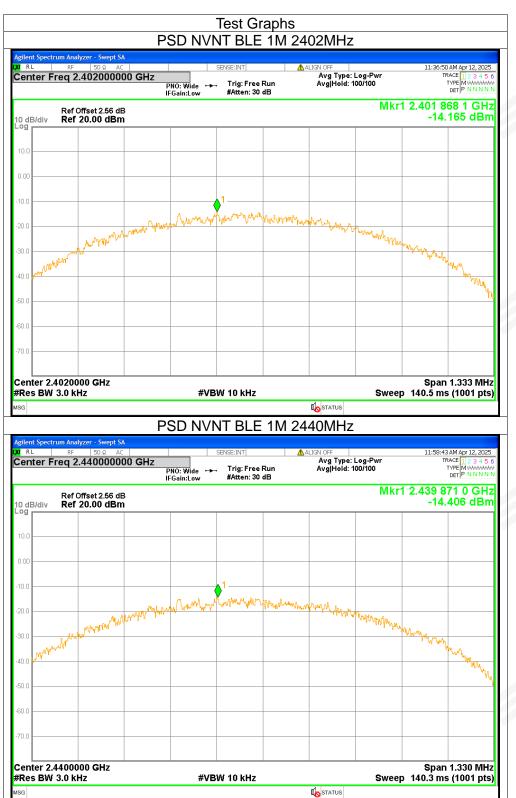




5. Maximum Power Spectral Density Level

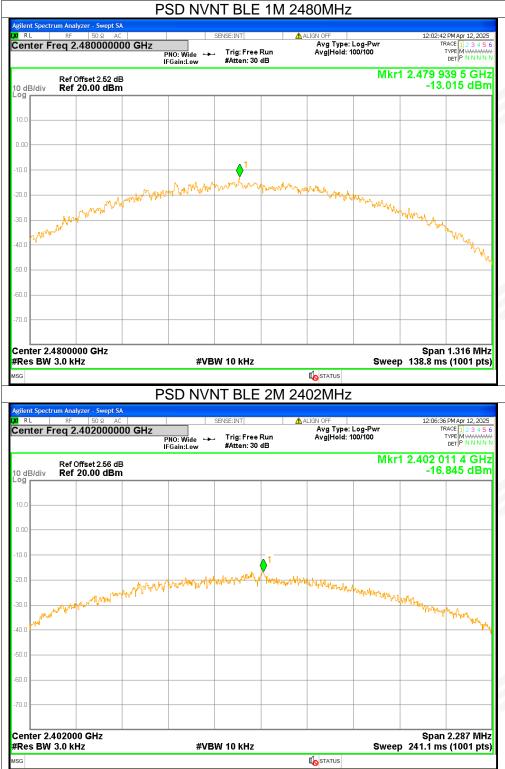
Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-14.17	<=8	Pass
NVNT	BLE 1M	2440	-14.41	<=8	Pass
NVNT	BLE 1M	2480	-13.02	<=8	Pass
NVNT	BLE 2M	2402	-16.85	<=8	Pass
NVNT	BLE 2M	2440	-16.73	<=8	Pass
NVNT	BLE 2M	2480	-17.49	<=8	Pass







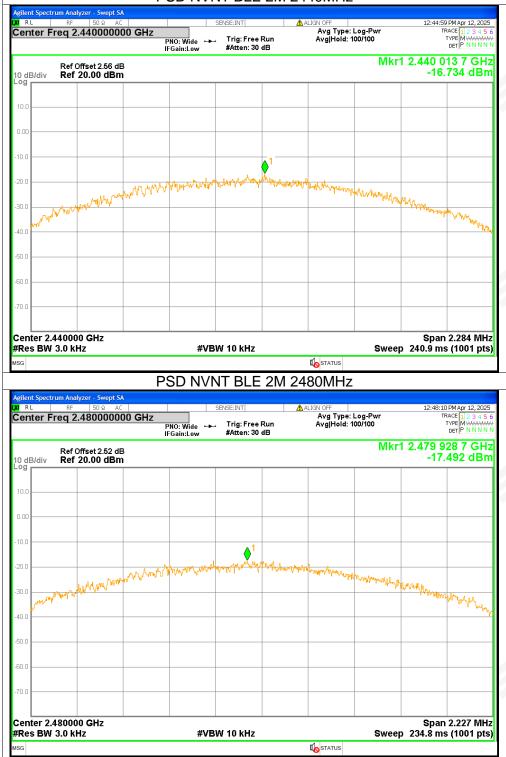
Page 59 of 73





PSD NVNT BLE 2M 2440MHz

Page 60 of 73

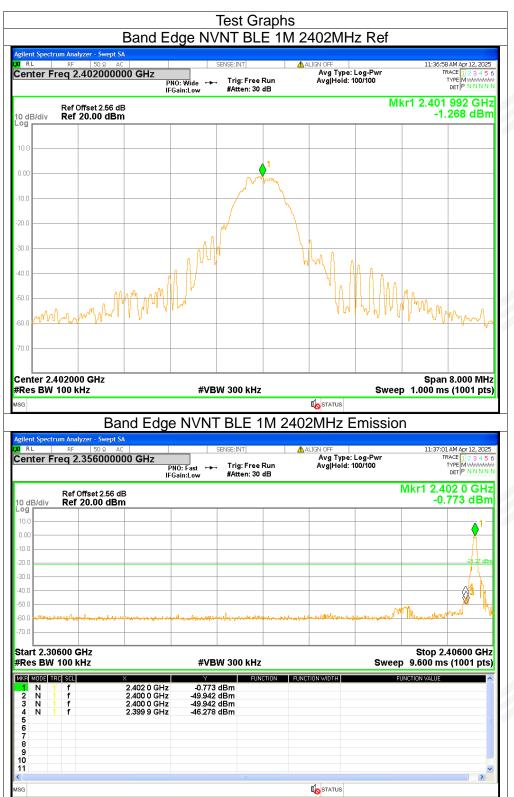




6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-45	<=-20	Pass
NVNT	BLE 1M	2480	-53.13	<=-20	Pass
NVNT	BLE 2M	2402	-34.51	<=-20	Pass
NVNT	BLE 2M	2480	-50.61	<=-20	Pass







51 PM Apr 12, 20 TRACE 1 2 3 4 TYPE MWWW DET PNNN R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low -----Mkr1 2.480 048 GHz Ref Offset 2.52 dB Ref 20.00 dBm -0.669 dBm 10 dB/div n n 20.0 30. 4N (50.0 m n Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz **I**STATUS SG Band Edge NVNT BLE 1M 2480MHz Emission Swept SA L2:02:54 PM Apr 12, B L TYPE MWWWWW DET P N N N N Center Freg 2.526000000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.480 2 GHz Ref Offset 2.52 dB Ref 20.00 dBm -0.437 dBm 10 dB/div 0.0 20.67 d 'n 30.0 40.0 ¥} Start 2.47600 GHz Stop 2.57600 GHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) #Res BW 100 kHz MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE -0.437 dBm -55.873 dBm -58.968 dBm -53.805 dBm 2.480 2 GHz 2.483 5 GHz 2.500 0 GHz 2.484 7 GHz N N N 2 3 4 5 6 7 8 9 10 11 **I**STATUS SG

Band Edge NVNT BLE 1M 2480MHz Ref



nt Spectrum Analyzer -			IT BLE 2N	/I 2402MHz Ref	
	0 Ω AC 2000000 GHz P	NO: Wide 🔸	SE:INT Trig: Free Run #Atten: 30 dB	ALIGN OFF Avg Type: Log-Pwr Avg Hold: 100/100	12:06:42 PMApr 12, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
Ref Offset B/div Ref 20.0					Mkr1 2.401 968 GHz -1.062 dBm
			1		
		0	mmm	η	
		m		Mym	
		N			
	m	1		Mm N	
	N N N	, 1 2/		V.C. V	M.
mmm	Mw				MM man M.
L. Martin . K. a. a					V ~ Klont - V - 10/~
nter 2.402000 GH es BW 100 kHz	lz	#\/D\\/	300 kHz		Span 8.000 MHz eep 1.000 ms (1001 pts)
				STATUS	
	Band Edg	e NVNT I	BLE 2M 2	402MHz Emissi	on
L RF 51	Swept SA Ο Ω AC		BLE 2M 2	402MHz Emissi	12:06:45 PM Apr 12, 2025
L RF 51	Swept SA 0 Ω AC 0000000 GHz	SEN		402MHz Emissi	
L RF 50 nter Freq 2.356 Ref Offset	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PM Apr 12, 2025 TRACE 12, 3, 4, 5, 6
ter Freq 2.356	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE 12:3456 TYPE MUNIMUM DET PINNNN Mkr1 2.402 0 GHZ
L RF 50 ter Freq 2.356 Ref Offset	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE 12:3456 TYPE MUNIMUM DET PINNNN Mkr1 2.402 0 GHZ
L RF Si Iter Freq 2.356 Ref Offset B/div Ref 20.0	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE 12:3456 TYPE MUNIMUM DET PINNNN Mkr1 2.402 0 GHZ
L RF Si Iter Freq 2.356 B/div Ref 20.0	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE 12:3456 TYPE MUNIMUM DET PINNNN Mkr1 2.402 0 GHZ
Ref Offset IB/div Ref 20.0	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE 12:3456 TYPE MUNIMUM DET PINNNN Mkr1 2.402 0 GHZ
Ref Offset	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN PNO: Fast ↔	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE [] 2 3 4 5 6 TYPE MANNANN Mkr1 2.402 0 GHz -1.032 dBm
Ref Offset B/div Ref 20.0	Swept SA © Q AC 0000000 GHz If 12.56 dB	SEN -Gain:Low -Gain:Low	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE [] 23 4 5 6 TYPE MINIMUM DEI PINNIN Mkr1 2.402 0 GHz -1.032 dBm -1.032 dBm -1
Ref Offset B/div Ref 20.0	Swept SA 0.0 AC 1 0000000 GHz F F F 12.56 dB 0 dBm 1 12.56 dB 0 dBm 1 12.56 dB 1 1 1 12.402 0 GHz 2.402 0 GHz 2.400 0 GHz 1		SE:INT Trig: Free Run #Atten: 30 dB	402MHz Emissi Avg Type: Log-Pwr Avg Hold: 100/100	12:06:45 PMApr 12; 2025 TRACE 12:3 4 5 6 TYPE MINIMUM DEI PINNINN Mkr1 2:402 0 GHz -1.032 dBm
L RF SI tter Freq 2.356 Ref Offset B/div Ref 20.0 C Ref 20.0	Swept SA 0 2 AC 1000000 GHz 12.56 dB 10 dBm 	PN0: Fast → -Gain:Low #VBW	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE [] 23 4 5 6 TYPE MINIMUM DEI PINNIN Mkr1 2.402 0 GHz -1.032 dBm -1.032 dBm -1
Ref Offset B/div Ref Offset B/div Ref 20.0 Ref 20.0 Ref 20.0	Swept SA 0 Q AC 1000000 GHz 1000000 GHz 100 GHz 100 GHz 100 GHz 2.402 0 GHz 2.400 0 GHz 2.400 0 GHz	PN0: Fast → -Gain:Low #VBW	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE [] 23 4 5 6 TYPE MINIMUM DEI PINNIN Mkr1 2.402 0 GHz -1.032 dBm -1.032 dBm -1
Ref Offset B/div Ref Offset B/div Ref 20.0 Ref 20.0 Ref 20.0	Swept SA 0 Q AC 1000000 GHz 1000000 GHz 100 GHz 100 GHz 100 GHz 2.402 0 GHz 2.400 0 GHz 2.400 0 GHz	PN0: Fast → -Gain:Low #VBW	SE:INT	402MHz Emissi	12:06:45 PMApr 12, 2025 TRACE [] 23 4 5 6 TYPE MINIMUM DEI PINNIN Mkr1 2.402 0 GHz -1.032 dBm -1.032 dBm -1



gilent Spectrum Analyzer - Swe							
RL RF 50Ω Center Freq 2.48000	AC 0000 GHz P	NO: Wide	ISE:INT Trig: Free Run #Atten: 30 dB	ALIGN OFF Avg Type: L Avg Hold: 10		TRA T	M Apr 12, 2025 CE 1 2 3 4 5 (PE M WANNA DET P N N N N
Ref Offset 2.5 0 dB/div Ref 20.00 d					Mk	r1 2.479 (-1.2	952 GH2 45 dBm
.og							
10.0			1				
0.00			mmm	IA III			
10.0		me	TU	John John			
20.0		~~~~					
30.0	~ ^ ^				MA		
40.0		M.				ή _	
50.0	N.				- V	MAMAN	M (
	<u> </u>					A . A . A.	mm
70.0							
tenter 2 400000 CUI-							
Res BW 100 kHz	Band Edge		300 кнz BLE 2M 2	Kostatus 2480MHz E	•	1.000 ms	
Res BW 100 kHz	pt SA AC		BLE 2M 2	ALIGN OFF Avg Type: L	mission ₀g-Pwr	1.000 ms	(1001 pts MApr 12, 2025 CE 1 2 3 4 5
Res BW 100 kHz sg glient Spectrum Analyzer - Swe RL RF 50 ହ	pt SA AC 0000 GHz		BLE 2M 2	480MHz E	mission og-Pwr 100/100	1.000 ms 12:48:19 F TRA T	(1001 pts MApr 12, 2025 CE 12 3 4 5 PE MWWW ET P N N N
glient Spectrum Analyzer - Swe	pt SA AC 00000 GHz F IF 2 dB		BLE 2M 2 SE:INT Trig: Free Run	ALIGN OFF Avg Type: L	mission og-Pwr 100/100	1.000 ms	(1001 pts MApr 12, 2025 CE 12 3 4 5 PE NNN ET P NNN 0 1 GHz
Res BW 100 kHz sc glent Spectrum Analyzer - Swe a RL RF 50 a center Freq 2.52600 Ref Offset 2.5 0 dB/dlv Ref 20.00 c	pt SA AC 00000 GHz F IF 2 dB		BLE 2M 2 SE:INT Trig: Free Run	ALIGN OFF Avg Type: L	mission og-Pwr 100/100	1.000 ms	MApr 12, 2025 CE 12 3 4 5 PE NNN 0 1 GH2
Res BW 100 kHz sg glient Spectrum Analyzer - Swe R R RF Rt RF center Freq 2.52600 Ref Offset 2.5 0 dB/div Ref 20.00 c 10 10	pt SA AC 00000 GHz F IF 2 dB		BLE 2M 2 SE:INT Trig: Free Run	ALIGN OFF Avg Type: L	mission og-Pwr 100/100	1.000 ms	(1001 pts (1001 pts (12345 (12345 (12345 (12345 (12345 (12345)
Res BW 100 kHz sc glient Spectrum Analyzer - Swe a RL RF 50 a center Freq 2.52600 Ref Offset 2.5 0 dB/div Ref 20.00 c	pt SA AC 00000 GHz F IF 2 dB		BLE 2M 2 SE:INT Trig: Free Run	ALIGN OFF Avg Type: L	mission og-Pwr 100/100	1.000 ms	(1001 pts MApr 12, 2025 CE 12 3 4 5 PE NNN ET P NNN 0 1 GHz
Res BW 100 kHz sg glient Spectrum Analyzer - Swed RL RF Center Freq 2.52600 Ref Offset 2.5 0 dB/div Ref 20.00 c 1 1 1 20.00	pt SA AC 00000 GHz F IF 2 dB		BLE 2M 2 SE:INT Trig: Free Run	ALIGN OFF Avg Type: L	mission og-Pwr 100/100	1.000 ms	(1001 pts (1001 pts (12.345 (12.345 (12.345 (12.345 (12.345 (12.345) (12.35
Res BW 100 kHz sg glient Spectrum Analyzer - Swe R R RF center Freq 2.52600 OdB/div Ref Offset 2.5 0 B 0 0.00 10 1 0.00 1 <td< td=""><td>pt SA AC 00000 GHz F IF 2 dB</td><td></td><td>BLE 2M 2 SE:INT Trig: Free Run</td><td>ALIGN OFF Avg Type: L</td><td>mission og-Pwr 100/100</td><td>1.000 ms</td><td>Mapr 12, 2025 ce 12 3 4 5 ref Mwwww. er P NNNN 0 1 GHz 27 dBm</td></td<>	pt SA AC 00000 GHz F IF 2 dB		BLE 2M 2 SE:INT Trig: Free Run	ALIGN OFF Avg Type: L	mission og-Pwr 100/100	1.000 ms	Mapr 12, 2025 ce 12 3 4 5 ref Mwwww. er P NNNN 0 1 GHz 27 dBm
Res BW 100 kHz sg glient Spectrum Analyzer - Sweet RL RF Center Freq 2.52600 0 dB/div Ref Offset 2.5 0 dB/div Ref 2.5000 c 0 dB/div Ref 2.500 c	pt SA AC 00000 GHz F IF 2 dB	e NVNT	BLE 2M 2	ALIGN OFF Avg Type: L	mission .og-Pwr 10/100	1.000 ms	(1001 pts Mapr 12, 2025 CE 12:3:4:5 CE 12:5 CE 12:
Res BW 100 kHz ss glient Spectrum Analyzer - Sweet RL RF Ref Offset 2.5 Center Freq 2.52600 0 dB/div Ref Offset 2.5 0 dB/div Ref 2000 c 9 1 0 dB/div Ref 2000 c 9 1 10.0 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 <	pt SA AC 00000 GHz 2 dB IBm	e NVNT	BLE 2M 2	ALIGN OFF Avg Type: L	mission .og-Pwr 10/100 N	1.000 ms	(1001 pts Mapr 12, 2025 CE 12 3 4 5 CE 12 4 5
Res BW 100 kHz sq glient Spectrum Analyzer - Swe RL RF Some result Center Freq 2.52600 Ref Offset 2.5 0 dB/div Ref Offset 2.5 10.0 Ref 20.00 c 10.0 1 11.0 1 12.0 1 13.0 1 14.0 1	pt SA AC 00000 GHz F IF 2 dB	e NVNT	BLE 2M 2 SE:INT Trig: Free Run #Atten: 30 dB setUhren: 30 dB Subscription Subscription BLE 2M 2 Statement of the setUhren of t	Align OFF Avg Type: L Avg Hoid: 10	mission .og-Pwr 10/100 N	1.000 ms	(1001 pts Mapr 12, 2025 CE 12 3 4 5 CE 12 4 CE 12 4 C
Res BW 100 kHz ss glent Spectrum Analyzer - Swe RL RF Scenter Freq 2.52600 OdB/div Ref Offset 2.5 0 dB/div Ref 20.00 c	2 dB 2 dB	e NVNT	BLE 2M 2 SE:INT Trig: Free Run #Atten: 30 dB setUhren: 30 dB Subscription Subscription BLE 2M 2 Statement of the setUhren of t	Align OFF Avg Type: L Avg Hoid: 10	mission .og-Pwr 10/100 N	1.000 ms	(1001 pts Mapr 12, 2025 CE 12 3 4 5 CE 12 4 CE 12 4 C



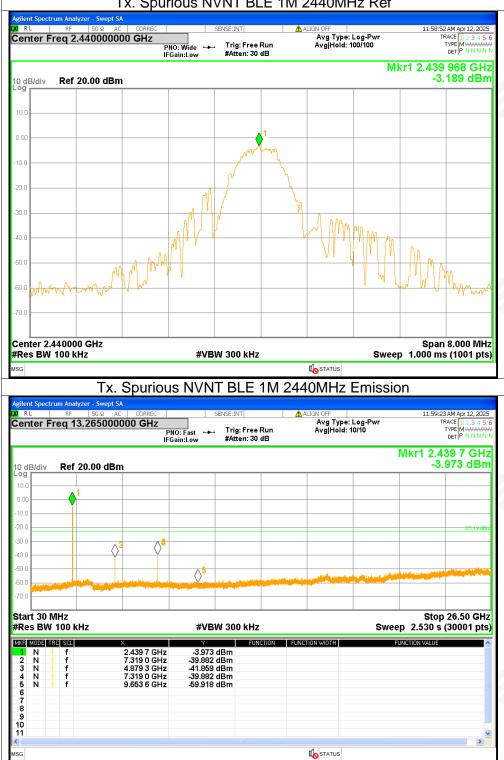
7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-41.59	<=-20	Pass
NVNT	BLE 1M	2440	-36.69	<=-20	Pass
NVNT	BLE 1M	2480	-39.41	<=-20	Pass
NVNT	BLE 2M	2402	-41.36	<=-20	Pass
NVNT	BLE 2M	2440	-35.45	<=-20	Pass
NVNT	BLE 2M	2480	-36.27	<=-20	Pass



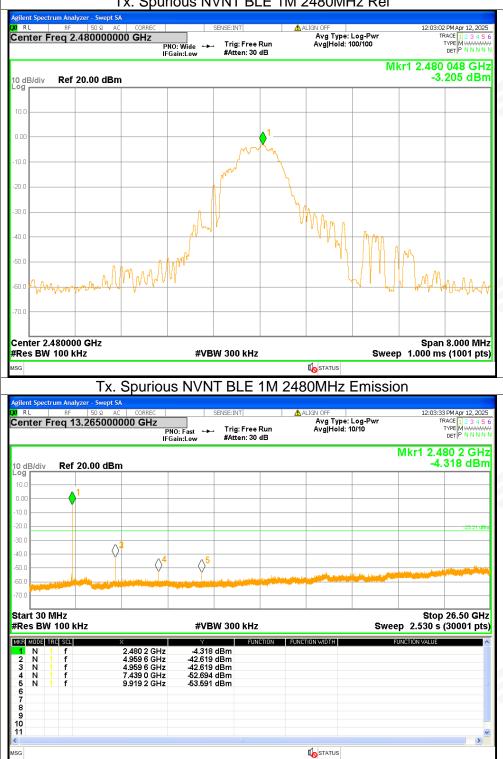






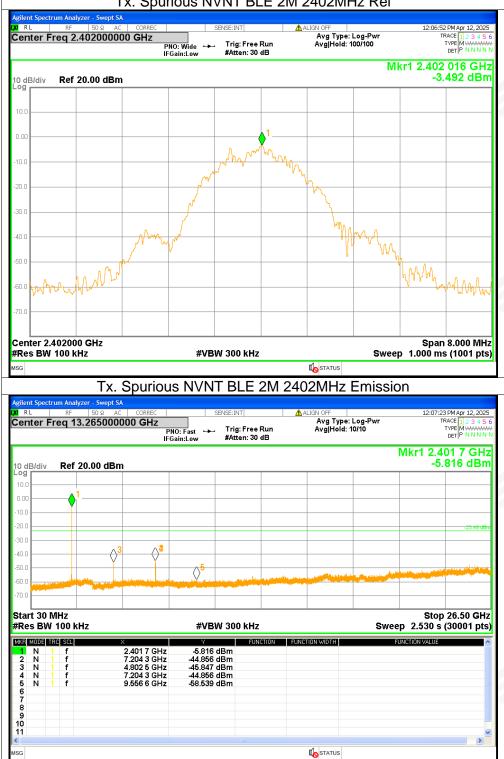
Tx. Spurious NVNT BLE 1M 2440MHz Ref





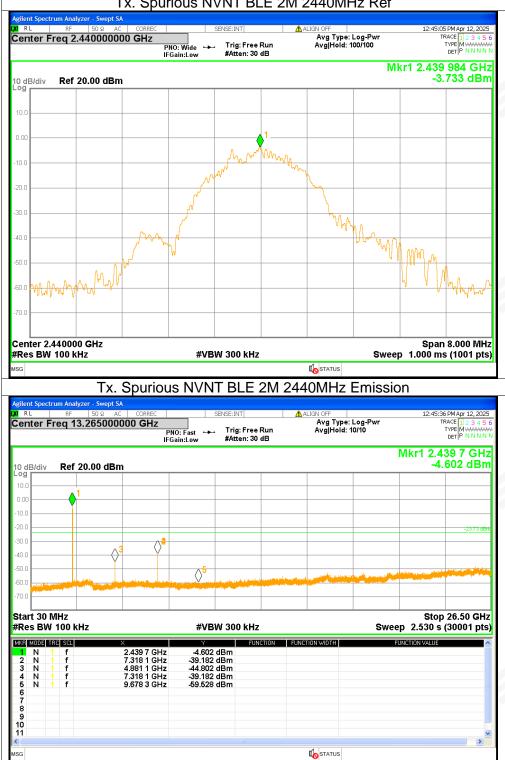
Tx. Spurious NVNT BLE 1M 2480MHz Ref





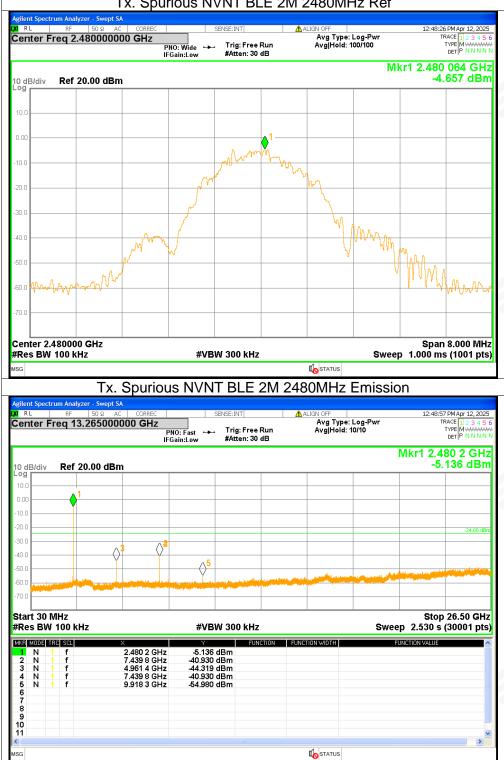
Tx. Spurious NVNT BLE 2M 2402MHz Ref





Tx. Spurious NVNT BLE 2M 2440MHz Ref





Tx. Spurious NVNT BLE 2M 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 * * * *