

RADIO TEST REPORT

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Report No.:STS2302023W09

Issued for

Hot Pepper Mobile Inc.

350 10th Ave 1000 Ste San Diego California United States 92101-8705

Product Name:	Tablet
Brand:	Hot Pepper
Model Number:	DT40
Series Model(s):	N/A
FCC ID:	2A33N-AP19
Test Standard:	FCC Part 15.247

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APPROV

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Page 2 of 58 Report No.: STS2302023W09

TEST RESULT CERTIFICATION

Applicant's Name:	Hot Pepper Mobile Inc.
Address:	350 10th Ave 1000 Ste San Diego California United States 92101-8705
Manufacturer's Name:	Shenzhen Mediafly Technology CO.,LTD
Address:	1/F, Building A, WeiXing Science And Technology Park, No. 268-3, Bao Shi East Rd, ShuiTian Community, ShiYan Street, BaoAn District, Shen Zhen, China
Product Description	
Product Name:	Tablet
Brand:	Hot Pepper
Model Number	DT40
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:	10 Feb. 2023
Date (s) of performance of tests:	10 Feb. 2023 ~ 23 Feb. 2023
Date of Issue	23 Feb. 2023
Test Result	Pass

Testing Engineer

(Chris Chen)

Technical Manager

ean the

(Sean she)



Authorized Signatory :

honey

(Bovey Yang)



Table of Contents

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	10
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	12
2.6 EQUIPMENTS LIST	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 TEST PROCEDURE	15
3.3 TEST SETUP	15
3.4 EUT OPERATING CONDITIONS	15
3.5 TEST RESULTS	16
4. RADIATED EMISSION MEASUREMENT	18
4.1 RADIATED EMISSION LIMITS	18
4.2 TEST PROCEDURE	20
4.3 TEST SETUP	21
4.4 EUT OPERATING CONDITIONS	21
4.5 FIELD STRENGTH CALCULATION	22
4.6 TEST RESULTS	23
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	30
5.1 LIMIT	30
5.2 TEST PROCEDURE	30
5.3 TEST SETUP	30
5.4 EUT OPERATION CONDITIONS	30
5.5 TEST RESULTS	30
6. POWER SPECTRAL DENSITY TEST	31
6.1 LIMIT	31
6.2 TEST PROCEDURE	31
6.3 TEST SETUP	31

9

Page 4 of 58 Report No.: STS2302023W09



Table of Contents

6.4 EUT OPERATION CONDITIONS	31
6.5 TEST RESULTS	31
7. BANDWIDTH TEST	32
7.1 LIMIT	32
7.2 TEST PROCEDURE	32
7.3 TEST SETUP	32
7.4 EUT OPERATION CONDITIONS	32
7.5 TEST RESULTS	32
8. PEAK OUTPUT POWER TEST	33
8.1 LIMIT	33
8.2 TEST PROCEDURE	33
8.3 TEST SETUP	34
8.4 EUT OPERATION CONDITIONS	34
8.5 TEST RESULTS	34
9. ANTENNA REQUIREMENT	35
9.1 STANDARD REQUIREMENT	35
9.2 EUT ANTENNA	35
APPENDIX 1-TEST DATA	36
1. DUTY CYCLE	36
2. MAXIMUM AVERAGE CONDUCTED OUTPUT POWER	39
3. MAXIMUM PEAK CONDUCTED OUTPUT POWER	42
46DB BANDWIDTH	45
5. MAXIMUM POWER SPECTRAL DENSITY LEVEL	48
6. BAND EDGE	51
7. CONDUCTED RF SPURIOUS EMISSION	54
APPENDIX 2- EUT TEST PHOTO	58

1



Page 5 of 58 Report No.: STS2302023W09

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	23 Feb. 2023	STS2302023W09	ALL	Initial Issue



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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	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 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 C63.10-2013.

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1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 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	±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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Tablet		
Brand	Hot Pepper		
Model Number	DT40		
Series Model(s)	N/A		
Model Difference	N/A		
	The EUT is a Tablet	t	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Radio Technology:	BLE	
Product Description	Bluetooth		
	Configuration:	LE(Support 1M PHY)	
	Number Of Channel:	40	
	Antenna Type:	PIFA	
	Antenna Gain (dBi)	2.27dBi	
Channel List	Please refer to the Note 3.		
Adapter	Input: 100-240Vac 50/60Hz 0.4A max Output: 5.0V 2A		
Battery	Rated Voltage: 3.85V Charge Limit Voltage: 4.4V Capacity: 6500mAh		
Hardware version number	WT_P36-Y_6771_BED_UFS_MB_V1.0_20220825		
Software version number	DT40_20230106_V1.0		
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.

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Page 9 of 58 Report No.: STS2302023W09

			Chan	nel 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

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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) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX

2.3 TEST SOFTWARE AND POWER LEVEL

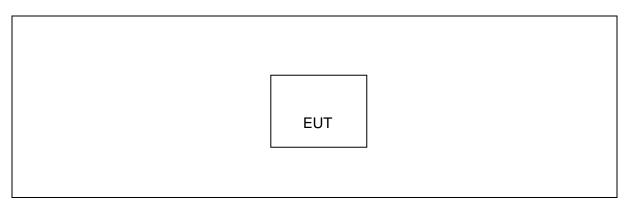
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	2.27	default	Engineering mode

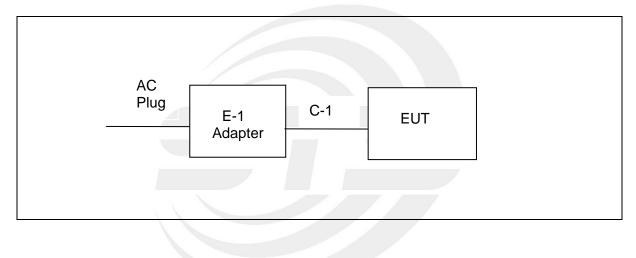


2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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.	Length	Note
E-1	Adapter	Fxin	WRP2E-050200U	N/A	N/A
C-1	Type-C Cable	N/A	N/A	85cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

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".



Report No.: STS2302023W09

2.6 EQUIPMENTS LIST

		RF Radiation Tes	t Equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2022.03.02	2023.03.01
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2022.07.23	2023.07.22
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
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	2022.03.02	2023.03.01
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02014	2021.10.11	2023.10.10
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.27
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	2023.09.28
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	EZ-EMC		Ver.STSLAB-03A	1 CE	
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2022.03.01	2023.02.28
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	MW		MTS 8310_2.0	.0.0	

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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.

Vertical Reference Ground Plane EUT 40cm EUT 80cm N Horizontal Reference Ground Plane

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

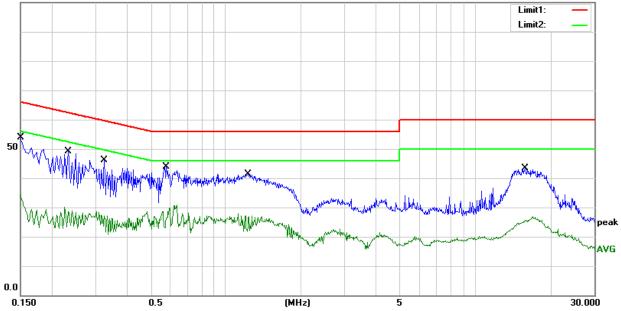
Temperature:	21.7(C)	Relative Humidity:	42%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1500	43.42	10.33	53.75	66.00	-12.25	QP
2	0.1500	24.03	10.33	34.36	56.00	-21.64	AVG
3	0.2340	38.69	10.46	49.15	62.31	-13.16	QP
4	0.2340	19.70	10.46	30.16	52.31	-22.15	AVG
5	0.3260	35.42	10.70	46.12	59.55	-13.43	QP
6	0.3260	17.93	10.70	28.63	49.55	-20.92	AVG
7	0.5780	33.49	10.47	43.96	56.00	-12.04	QP
8	0.5780	20.31	10.47	30.78	46.00	-15.22	AVG
9	1.2340	30.99	10.30	41.29	56.00	-14.71	QP
10	1.2340	17.49	10.30	27.79	46.00	-18.21	AVG
11	15.8220	31.51	11.92	43.43	60.00	-16.57	QP
12	15.8220	14.97	11.92	26.89	50.00	-23.11	AVG

Remark:

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

100.0 dBuV



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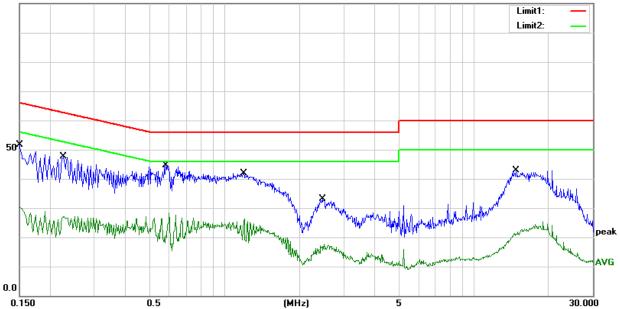
Temperature:	21.7(C)	Relative Humidity:	42%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 4		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1500	41.45	10.29	51.74	66.00	-14.26	QP
2	0.1500	20.05	10.29	30.34	56.00	-25.66	AVG
3	0.2260	37.16	10.50	47.66	62.60	-14.94	QP
4	0.2260	18.39	10.50	28.89	52.60	-23.71	AVG
5	0.5820	34.20	10.44	44.64	56.00	-11.36	QP
6	0.5820	18.05	10.44	28.49	46.00	-17.51	AVG
7	1.1940	31.67	10.31	41.98	56.00	-14.02	QP
8	1.1940	15.94	10.31	26.25	46.00	-19.75	AVG
9	2.4660	22.73	10.41	33.14	56.00	-22.86	QP
10	2.4660	7.34	10.41	17.75	46.00	-28.25	AVG
11	14.8100	31.44	11.55	42.99	60.00	-17.01	QP
12	14.8100	13.94	11.55	25.49	50.00	-24.51	AVG

Remark:

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

100.0 dBuV



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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 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			

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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)

For Restricted band

Spectrum Parameter	Setting	
Detector	Peak/AV	
Stort/Stop Frequency	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)	

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Page 20 of 58 Report No.: STS2302023W09

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

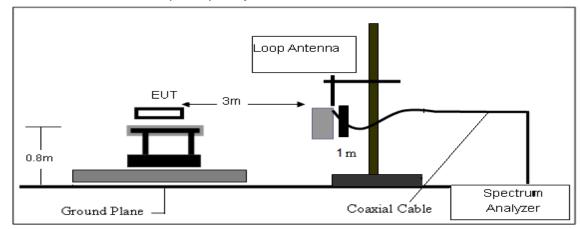
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the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

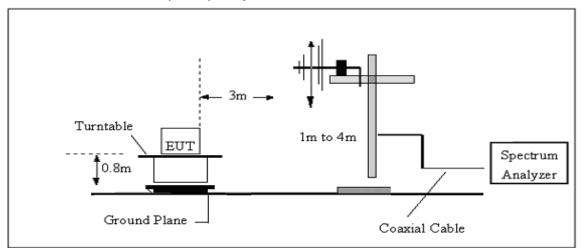


4.3 TEST SETUP

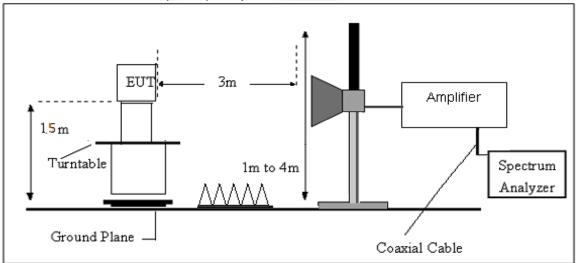
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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





4.6 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.85V	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.





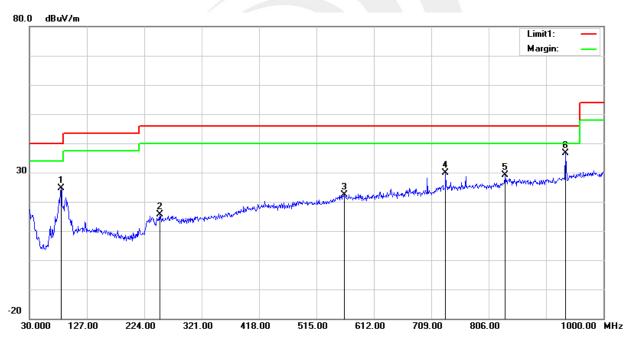
(30MHz -1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	DC 3.85V	Phase:	Horizontal		
Test 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	83.3500	47.24	-22.52	24.72	40.00	-15.28	peak
2	250.1900	31.77	-16.10	15.67	46.00	-30.33	peak
3	561.5600	28.00	-5.51	22.49	46.00	-23.51	peak
4	733.2500	32.29	-2.35	29.94	46.00	-16.06	peak
5	834.1300	29.61	-0.59	29.02	46.00	-16.98	peak
6	935.9800	35.63	1.04	36.67	46.00	-9.33	peak

Remark:

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





Page 25 of 58 Report No.: STS2302023W09

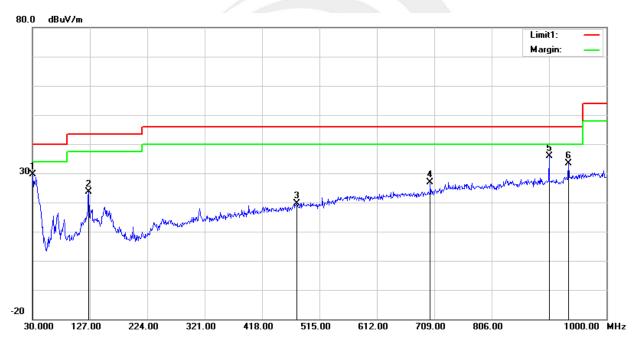
Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	DC 3.85V	Phase:	Vertical		
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	42.92	-13.35	29.57	40.00	-10.43	peak
2	125.0600	41.77	-18.22	23.55	43.50	-19.95	peak
3	477.1700	28.49	-8.75	19.74	46.00	-26.26	peak
4	702.2100	31.05	-4.10	26.95	46.00	-19.05	peak
5	903.0000	36.33	-0.37	35.96	46.00	-10.04	peak
6	935.9800	32.23	1.04	33.27	46.00	-12.73	peak

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit

2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





(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 Ch	nannel (GFSK/2	2402 MHz)				
3264.73	60.94	44.70	6.70	28.20	-9.80	51.14	74.00	-22.86	PK	Vertical
3264.73	49.85	44.70	6.70	28.20	-9.80	40.05	54.00	-13.95	AV	Vertical
3264.84	61.51	44.70	6.70	28.20	-9.80	51.71	74.00	-22.29	PK	Horizontal
3264.84	51.19	44.70	6.70	28.20	-9.80	41.39	54.00	-12.61	AV	Horizontal
4804.56	58.88	44.20	9.04	31.60	-3.56	55.32	74.00	-18.68	PK	Vertical
4804.56	50.06	44.20	9.04	31.60	-3.56	46.50	54.00	-7.50	AV	Vertical
4804.53	59.38	44.20	9.04	31.60	-3.56	55.82	74.00	-18.18	PK	Horizontal
4804.53	49.38	44.20	9.04	31.60	-3.56	45.82	54.00	-8.18	AV	Horizontal
5359.80	49.06	44.20	9.86	32.00	-2.34	46.72	74.00	-27.28	PK	Vertical
5359.80	39.24	44.20	9.86	32.00	-2.34	36.90	54.00	-17.10	AV	Vertical
5359.72	47.80	44.20	9.86	32.00	-2.34	45.45	74.00	-28.55	PK	Horizontal
5359.72	38.61	44.20	9.86	32.00	-2.34	36.27	54.00	-17.73	AV	Horizontal
7205.90	53.78	43.50	11.40	35.50	3.40	57.18	74.00	-16.82	PK	Vertical
7205.90	44.96	43.50	11.40	35.50	3.40	48.36	54.00	-5.64	AV	Vertical
7205.78	54.63	43.50	11.40	35.50	3.40	58.03	74.00	-15.97	PK	Horizontal
7205.78	44.09	43.50	11.40	35.50	3.40	47.49	54.00	-6.51	AV	Horizontal
				Middle C	Channel (GFSK	/2440 MHz)				
3263.14	61.61	44.70	6.70	28.20	-9.80	51.81	74.00	-22.19	PK	Vertical
3263.14	50.74	44.70	6.70	28.20	-9.80	40.94	54.00	-13.06	AV	Vertical
3263.06	61.40	44.70	6.70	28.20	-9.80	51.60	74.00	-22.40	PK	Horizontal
3263.06	50.68	44.70	6.70	28.20	-9.80	40.88	54.00	-13.12	AV	Horizontal
4879.93	58.92	44.20	9.04	31.60	-3.56	55.36	74.00	-18.64	PK	Vertical
4879.93	49.72	44.20	9.04	31.60	-3.56	46.16	54.00	-7.84	AV	Vertical
4879.95	58.91	44.20	9.04	31.60	-3.56	55.35	74.00	-18.65	PK	Horizontal
4879.95	50.53	44.20	9.04	31.60	-3.56	46.97	54.00	-7.03	AV	Horizontal
5357.08	48.82	44.20	9.86	32.00	-2.34	46.48	74.00	-27.52	PK	Vertical
5357.08	40.10	44.20	9.86	32.00	-2.34	37.75	54.00	-16.25	AV	Vertical
5357.39	47.90	44.20	9.86	32.00	-2.34	45.56	74.00	-28.44	PK	Horizontal
5357.01	38.95	44.20	9.86	32.00	-2.34	36.61	54.00	-17.39	AV	Horizontal
7320.85	53.74	43.50	11.40	35.50	3.40	57.14	74.00	-16.86	PK	Vertical
7320.85	43.60	43.50	11.40	35.50	3.40	47.00	54.00	-7.00	AV	Vertical
7320.51	54.02	43.50	11.40	35.50	3.40	57.42	74.00	-16.58	PK	Horizontal
7320.51	44.82	43.50	11.40	35.50	3.40	48.22	54.00	-5.78	AV	Horizontal

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Page 27 of 58 Report No.: STS2302023W09

				High Char	nnel (GFSK/	2480 MHz)				
3264.87	61.57	44.70	6.70	28.20	-9.80	51.77	74.00	-22.23	PK	Vertical
3264.87	50.45	44.70	6.70	28.20	-9.80	40.65	54.00	-13.35	AV	Vertical
3264.76	61.40	44.70	6.70	28.20	-9.80	51.60	74.00	-22.40	PK	Horizontal
3264.76	50.44	44.70	6.70	28.20	-9.80	40.64	54.00	-13.36	AV	Horizontal
4960.46	58.49	44.20	9.04	31.60	-3.56	54.93	74.00	-19.07	PK	Vertical
4960.46	49.86	44.20	9.04	31.60	-3.56	46.30	54.00	-7.70	AV	Vertical
4960.43	58.29	44.20	9.04	31.60	-3.56	54.73	74.00	-19.27	PK	Horizontal
4960.43	49.16	44.20	9.04	31.60	-3.56	45.60	54.00	-8.40	AV	Horizontal
5359.79	48.35	44.20	9.86	32.00	-2.34	46.00	74.00	-28.00	PK	Vertical
5359.79	40.03	44.20	9.86	32.00	-2.34	37.69	54.00	-16.31	AV	Vertical
5359.73	47.16	44.20	9.86	32.00	-2.34	44.82	74.00	-29.18	PK	Horizontal
5359.73	38.19	44.20	9.86	32.00	-2.34	35.84	54.00	-18.16	AV	Horizontal
7439.98	54.78	43.50	11.40	35.50	3.40	58.18	74.00	-15.82	PK	Vertical
7439.98	44.20	43.50	11.40	35.50	3.40	47.60	54.00	-6.40	AV	Vertical
7439.70	54.37	43.50	11.40	35.50	3.40	57.77	74.00	-16.23	PK	Horizontal
7439.70	43.82	43.50	11.40	35.50	3.40	47.22	54.00	-6.78	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.

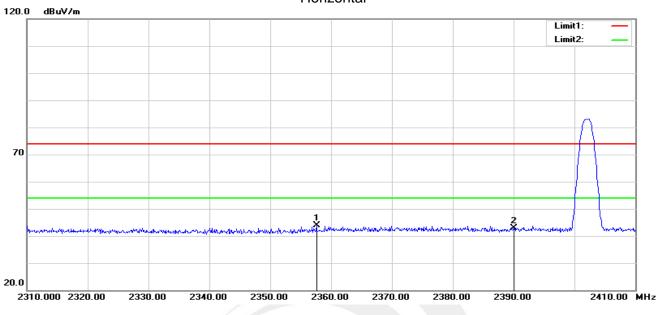




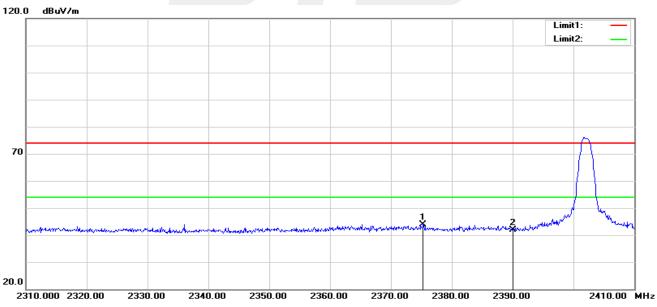
Report No.: STS2302023W09

4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2357.600	40.00	3.86	43.86	74.00	-30.14	peak
2	2390.000	38.59	4.34	42.93	74.00	-31.07	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.300	39.83	4.12	43.95	74.00	-30.05	peak
2	2390.000	37.66	4.34	42.00	74.00	-32.00	peak

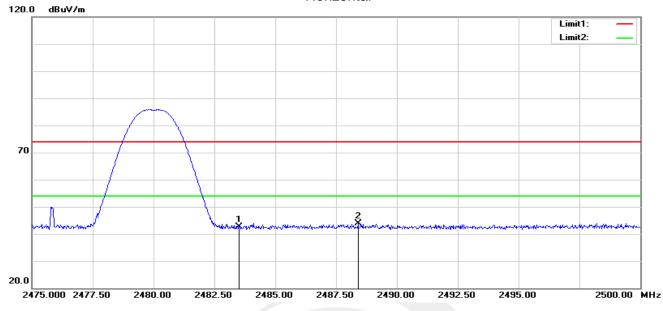
Vertical



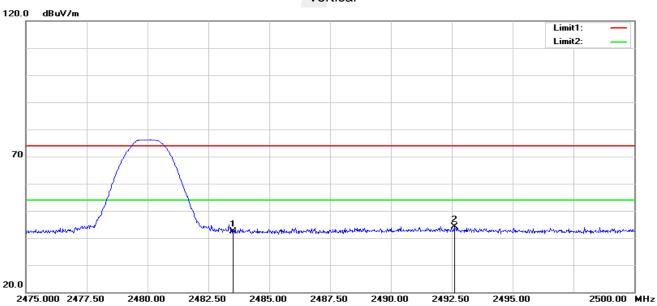
Page 29 of 58

Report No.: STS2302023W09

GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.93	4.60	42.53	74.00	-31.47	peak
2	2488.400	39.27	4.62	43.89	74.00	-30.11	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.80	4.60	42.40	74.00	-31.60	peak
2	2492.600	39.60	4.63	44.23	74.00	-29.77	peak

Vertical

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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
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

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.

Trace-Mode:

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com

Max hold



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

Specturm Analyzer		EUT
----------------------	--	-----

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 maximum peak conducted output power of a DTS EUT.

 $RBW \ge DTS$ 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.

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.

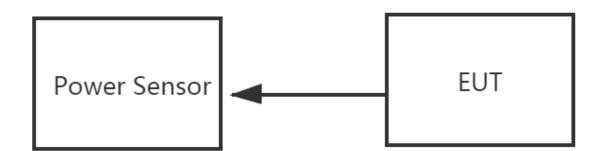
g) Allow trace to fully stabilize.

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.

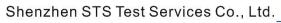




8.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

8.5 TEST RESULTS

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 PIFA Antenna. It comply with the standard requirement.



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Page 36 of 58 Report No.: STS2302023W09

APPENDIX 1-TEST DATA

1. Duty Cycle

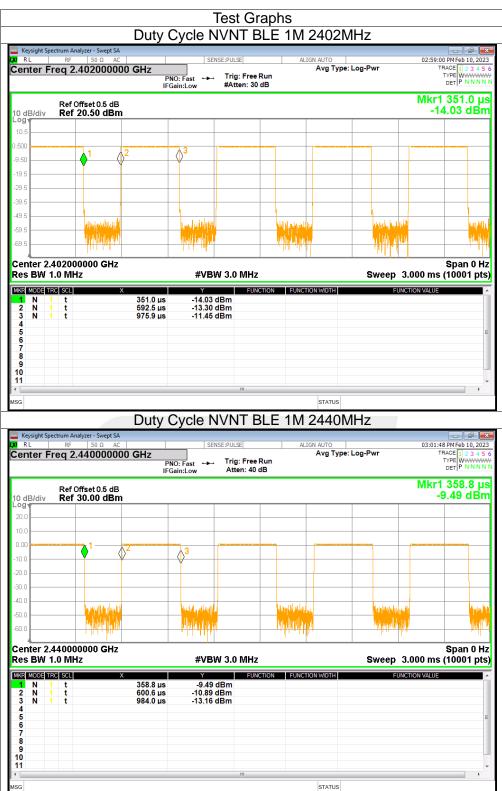
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	61.35	2.12	2.61
NVNT	BLE 1M	2440	61.32	2.12	2.61
NVNT	BLE 1M	2480	61.32	2.12	2.61



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Page 37 of 58 Report No.: STS2302023W09





RL RF 50 Ω enter Freq 2.48000		SENSE:PULSE	ALIGN AUTO	03:03:55 PM Feb 10, 202 TRACE 1 2 3 4 5
5 ACT 1109 2.40000		」 ast ⊶⊶ Trig: Free Run Low #Atten: 30 dB		
Ref Offset 0.5 dB/div Ref 20.50 d				Mkr1 79.20 µ -11.17 dBr
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50 - • · · · · · · · · · · · · · · · · · · 	3			
9.5				
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9.5 — REPAIR				
9.5				
enter 2.48000000 G	SHz			Span 0 H
es BW 1.0 MHz		#VBW 3.0 MHz		ep 3.000 ms (10001 pt
R MODE TRC SCL	X 79.20 µs	-11.17 dBm	FUNCTION WIDTH	FUNCTION VALUE
2 N 1 t 3 N 1 t	321.0 µs 704.4 µs	-11.25 dBm -13.74 dBm		
1	704.4 µS	-13.74 dBm		
5 6 7				
7				
3 9 0				
1				
			STATUS	Þ

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Page 38 of 58



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Page 39 of 58 Report No.: STS2302023W09

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	-1.51	2.12	0.61	<=30	Pass
NVNT	BLE 1M	2440	-1.01	2.12	1.11	<=30	Pass
NVNT	BLE 1M	2480	-1.3	2.12	0.82	<=30	Pass



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Page 40 of 58

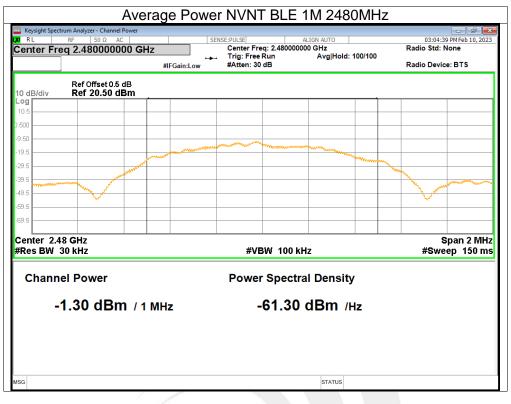
Report No.: STS2302023W09



Shenzhen STS Test Services Co., Ltd.



Page 41 of 58 Report No.: STS2302023W09





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Page 42 of 58 Report No.: STS2302023W09

3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	0.9	<=30	Pass
NVNT	BLE 1M	2440	1.39	<=30	Pass
NVNT	BLE 1M	2480	1.11	<=30	Pass



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Page 43 of 58 Report No.: STS2302023W09

Keysight Spectrum Analyzer - Swept SA	reak		NVNT B			11 12		
RL RF 50 Ω AC enter Freq 2.40200000			ENSE:PULSE		IGN AUTO Avg Type: I	_og-Pwr	02:59:	33 PM Feb 10, 20 TRACE 1 2 3 4 5 TYPE M WWW
		PNO: Fast ↔ FGain:Low	. Trig: Free R #Atten: 30 d	un IB	Avg Hold: 1			DET P NNNI
Ref Offset 0.5 dB dB/div Ref 20.50 dBm						М		2 158 GF).899 dBi
dB/div Ref 20.50 dBm			The second secon					
1.5								
				♦ ¹				
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enter 2.402000 GHz								
							Spa	n 10.00 MH
es BW 2.0 MHz		#VE	SW 6.0 MHz			#Sweep		
tes BW 2.0 MHz	Deals				STATUS	•		
Res BW 2.0 MHz	Peak		BW 6.0 MHZ	BLE 1M		•		s (10001 pt
Res BW 2.0 MHz S Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC		Power			2440N	1Hz	0 150.0 ms	s (10001 pt
tes BW 2.0 MHz Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC	0 GHz	Power		ALI	2440N	1Hz .og-Pwr	0 150.0 ms	s (10001 pt
tes BW 2.0 MHz Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Parter Freq 2.44000000 Ref Offset 0.5 dB	IO GHz	Power	NVNT B	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
Resight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44000000 Ref Offset 0.5 dB B dB/div Ref 20.50 dBm Ref	IO GHz	Power	NVNT B	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44000000 αB/div Ref Offset 0.5 dB Ref 20.50 dBm	IO GHz	Power	NVNT B	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44000000 αB/div Ref Offset 0.5 dB Ref 20.50 dBm	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.440000000 g GB/div Ref Offset 0.5 dB Ref 20.50 dBm g	IO GHz	Power	NVNT B	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
tes BW 2.0 MHz Keyzight Spectrum Analyzer - Swept SA RL RF 50Ω AC enter Freq 2.440000000 Ref Offset 0.5 dB Ref 20.50 dBm	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
Resight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44000000 Ref Offset 0.5 dB Ref 20.50 dBm g	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
Resight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44000000 Ref Offset 0.5 dB Ref 20.50 dBm g	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PM Feb 10, 2013 TRACE 1 2 3 4 5 TYPE M NNN DET P NNNN 9 719 GH
Resight Spectrum Analyzer - Swept SA RL<	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt
Res BW 2.0 MHz 3 Keysight Spectrum Analyzer - Swept SA RL<	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt
Res BW 2.0 MHz 3 Keysight Spectrum Analyzer - Swept SA RL RF SD Ω AC enter Freq 2.44000000 GB/div Ref Offset 0.5 dB GB/div Ref 20.50 dBm 16	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt
Res BW 2.0 MHz s Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44000000 Ref Offset 0.5 dB	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	n 10.00 MH s (10001 pt 11 PM Feb 10.202 TYPE M WWW DET P NNNP 9 719 GH 1.391 dBr
Res BW 2.0 MHz 3 Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.440000000 GB/div Ref Offset 0.5 dB GB/div Ref 20.50 dBm 3	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PMFeb 10,202 TRACE 11 23 45 DET P NNNP 9 719 GH .391 dBr
Res BW 2.0 MHz 3 Keysight Spectrum Analyzer - Swept SA RL RL RF 50 Ω AC enter Freq 2.44000000 B/div Ref Offset 0.5 dB dB/div Ref Offset 0.5 dB 00 0 01 0 02 0 03 0 04 0 05 0 06 0 07 0	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PMFeb 10,200 TRACE [] 2 3 4 5 TYPE M WW DET P NNN 9 719 GH .391 dBi
Res BW 2.0 MHz S Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.440000000 Ref Offset 0.5 dB GB/div Ref 20.50 dBm g	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	03:02: kr1 2.43	5 (10001 pt 11 PMFeb 10,200 TRACE [] 2 3 4 5 TYPE M WW DET P NNN 9 719 GH .391 dBi
Res Summary Summary <thsummary< th=""> <thsummary< th=""> <thsum< td=""><td>IO GHz</td><td>Power</td><td>NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d</td><td> ALI</td><td>2440N</td><td>1Hz _og-Pwr 00/100</td><td>• 150.0 ms</td><td>5 (10001 pt 11 PMFeb 10,202 TRACE 11 23 45 DET P NNNP 9 719 GH .391 dBr</td></thsum<></thsummary<></thsummary<>	IO GHz	Power	NVNT B ENSE:PULSE - Trig: Free R #Atten: 30 d	ALI	2440N	1Hz _og-Pwr 00/100	• 150.0 ms	5 (10001 pt 11 PMFeb 10,202 TRACE 11 23 45 DET P NNNP 9 719 GH .391 dBr



Page 44 of 58 Report No.: STS2302023W09

KI RL	trum Analyzer - Swept SA RF 50 Ω AC eq 2.48000000	0 GHz	SE	NSE:PULSE	ALIGN AUTO Avg Type: I	_og-Pwr	TF	7 PM Feb 10, 2023
	54 2.10000000		PNO: Fast ↔ FGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 1			
0 dB/div	Ref Offset 0.5 dB Ref 20.00 dBm					Mł	(r1 2.479 1.	724 GHz 109 dBm
10.0								
0.00				¹				
10.0								
20.0								
80.0								
10.0	uuuuu							A start and the
50.0								
60.0								
70.0								
enter 2.4 Res BW 2	80000 GHz 2.0 MHz		#VB	W 6.0 MHz		#Sweep	Span 150.0 ms	10.00 MH (10001 pts
SG					STATUS			

Peak Power NVNT BLE 1M 2480MHz



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4. -6dB Bandwidth

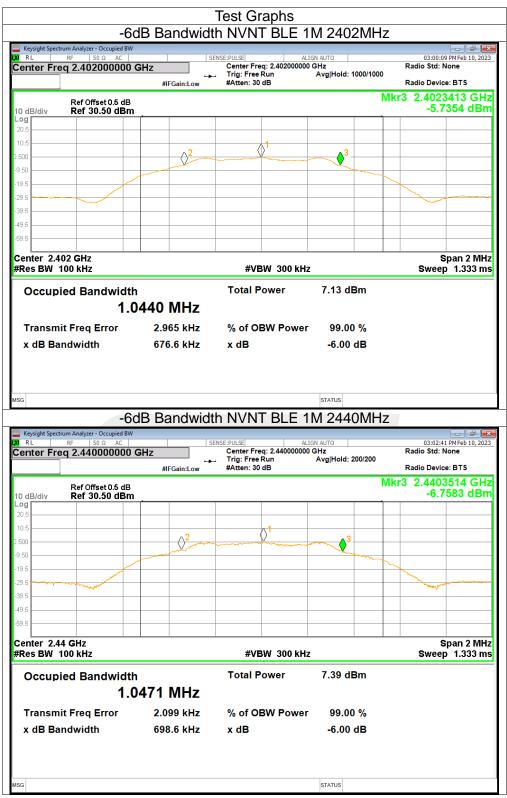
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.6766	>=0.5	Pass
NVNT	BLE 1M	2440	0.6986	>=0.5	Pass
NVNT	BLE 1M	2480	0.6703	>=0.5	Pass



Shenzhen STS Test Services Co., Ltd.



Report No.: STS2302023W09



Shenzhen STS Test Services Co., Ltd.



Page 47 of 58 Report No.: STS2302023W09

		th NVNT BLE 1	M 2480MHz	
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 2.480000000	GHz	Center Freq: 2.48000000	GN AUTO GHz Avg Hold: 1000/1000	03:04:53 PM Feb 10, 202 Radio Std: None
	, #IFGain:Low		Avg Hold: 1000/1000	Radio Device: BTS
Ref Offset 0.5 dB 10 dB/div Ref 30.50 dBm	·		M	kr3 2.4803372 GH -5.6250 dBr
20.5				
10.5		1		
0.500	$ \rangle^2$		→ ³	
-9.50				
-19.5				
-29.5				
-39.5				
-49.5				
-59.5				
Center 2.48 GHz #Res BW 100 kHz		#VBW 300 kHz		Span 2 MH Sweep 1.333 m
Occupied Bandwidtl	h	Total Power	7.34 dBm	
1.0	0456 MHz			
Transmit Freq Error	2.014 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	670.3 kHz	x dB	-6.00 dB	
NSG			STATUS	





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Page 48 of 58 Report No.: STS2302023W09

5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-13.95	<=8	Pass
NVNT	BLE 1M	2440	-13.4	<=8	Pass
NVNT	BLE 1M	2480	-13.74	<=8	Pass

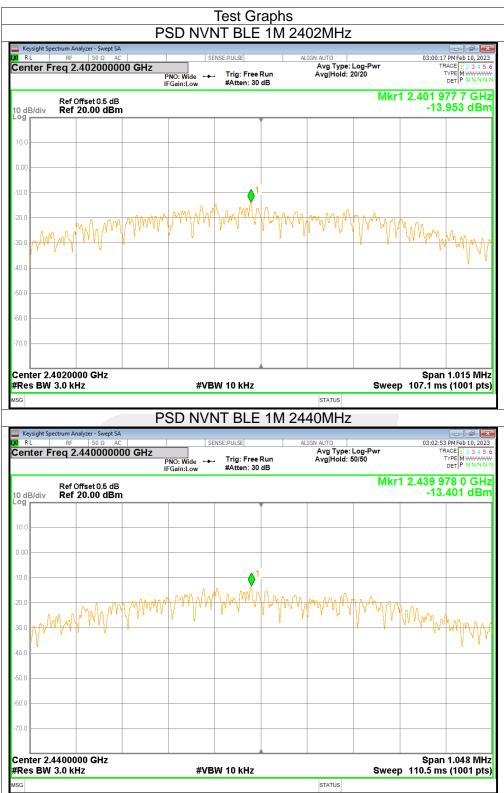


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Page 49 of 58

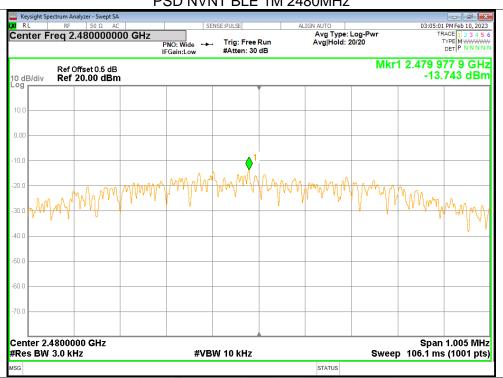
Report No.: STS2302023W09



Shenzhen STS Test Services Co., Ltd.



Page 50 of 58 Report No.: STS2302023W09



PSD NVNT BLE 1M 2480MHz



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Page 51 of 58 Report No.: STS2302023W09

6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-53.86	<=-20	Pass
NVNT	BLE 1M	2480	-59.07	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.



		Band F		est Graph	0 M 2402MHz	' Ref	
	ectrum Analyzer - Swept	SA					
enter F	RF 50 Ω req 2.402000	AC 000 GHz	SENS	E:PULSE	ALIGN AUTO Avg Type: L	og-Pwr	03:00:33 PM Feb 10, 202 TRACE 1 2 3 4 5
			NO: Wide ↔ Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 10	0/100	DET P N N N
	Ref Offset 0.5 d					Mkr1	2.402 000 GH
0 dB/div .og	Ref 20.50 dB	m					0.271 dBr
10.5				1			
.500							
9.50							
19.5							
29.5			~~~~				
23.5					V \		
39.5							
49.5							
		Mr. Mr.	/~		Name of Street	Mr. John	
59.5 4,740,740 74	Witnesstrong	A MART				Yan All The state but	Warten land of the month of the
69.5							
enter 24	402000 GHz						Span 8.000 MH
	100 kHz		#VBW	300 kHz		#Sweep 1	00.0 ms (1001 pt
sg					STATUS		
			e NVNT	BLE 1M 2	402MHz Ei	mission	
	ectrum Analyzer - Swept RF 50 Ω	SA		BLE 1M 2	ALIGN AUTO		03:00:47 PM Feb 10, 202
RL	ectrum Analyzer - Swept	AC 000 GHz		E:PULSE		og-Pwr	03:00:47 PM Feb 10, 202 TRACE 1 2 3 4 5 TYPE M WWWW
RL	ectrum Analyzer - Swept RF 50 Ω	sa ac 000 GHz	SENS	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PM Feb 10, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N 1
Center F	ectrum Analyzer - Swept RF 50 Ω	sa ac 000 GHz F F	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PM Feb 10, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N r1 2.402 0 GH
0 dB/div	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F F	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PM Feb 10, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N r1 2.402 0 GH
Center F	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F F	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PM Feb 10, 202 TRACE] 2 3 4 5 TYPE M WWWW DET P NNNN r1 2.402 0 GH 0.256 dBr
RL Center F 0 dB/div 0 g 10.5 .500	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PMFeb 10,20 TRACE 1 2 3 4 TYPE WWWW DET P NNNT 0.256 dBr
RL Center F 0 dB/div .99 10.5 .500 9.50 19.5	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PM Feb 10, 202 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N T1 2.402 0 GH
RL Center F 0 dB/div	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PMFeb 10,200 TRACE 12.3.4 TYPE MWWW DET P NNNN r1 2,402 0 GH 0.256 dBr
RL Center F 0 dB/div 0 g 10.5 .500 9.50 19.5 29.5 39.6	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PMFeb 10, 20: TRACE 1 2:3 4:5 TYPE M WWWW DET P NNNN r1 2.402 0 GH 0.256 dBr 1 -19.73 dE
0 dB/div -og 10.5 -05 -05 -05 -05 -05 -05 -05 -0	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PM reb 10, 20 TRACE 2 3 4 TYPE M MMM per P NNN r1 2.402 0 GH 0.256 dBi
RL	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100	03:00:47 PMFeb 10, 20: TRACE 1 2:3 4:5 TYPE M WWW DET P NNN1 r1 2.402 0 GH 0.256 dBr 1 -19.73 dt
0 dB/div 0 dB/div 0 g 10.6 .500 9.50 19.5 .39.5 .49.5 .69.5	ectrum Analyzer - Swept RF 50 Ω req 2.3566000 Ref Offset 0.5 d Ref 20,50 dE	sa ac 000 GHz F B	NO: Fast ↔	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100 Mk	03:00:47 PMFeb 10, 20: TRACE 1 2 3 4 5 TYPE M WWW DET P NNN r1 2.402 0 GH 0.256 dBr 1 -1975 d
0 dB/div 2 enter F 10.5 10.	ectrum Analyzer - Swept RF 50 Ω req 2.356000 Ref Offset 0.5 d	sa ac 000 GHz F B	SENS PNO: Fast Gain:Low	E:PULSE	ALIGN AUTO Avg Type: Lu	og-Pwr Io/100	03:00:47 PMFeb 10,202 TRACE 1 23.4 5 TYPE M WWW DET P NNNN r1 2.402 0 GH 0.256 dBr
0 dB/div 0 dB/div 0 g 0 g 0 dB/div 0 g 0 dB/div 0 g 0 dB/div 0 dB/d	ectrum Analyzer - Swept RF 50 2 req 2.3566000 Ref Offset 0.5 d Ref 20.50 dE 0.50 dE 0.5	SA AC 000 GHz B B B B C C C C C C C C C C C C C C C	SENS PNO: Fast →→ Gain:Low #VBW	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Lu	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10, 20: TRACE 1 2:3 4:5 TYPE M WWWW DET P NNNN r1 2.402 0 GH 0.256 dBr 1 -19.73 dE
RL CodB/div CodB	ectrum Analyzer - Swept RF 50 Ω req 2.3566000 Ref Offset 0.5 d Ref 20.50 dE 0000 GHz 100 kHz Ref Sci f	SA AC 000 GHz B B m 	SENS PNO: Fast → Gain:Low #VBW #VBW	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10,20: TRACE 1 23.45 TYPE M WWW DET P NNN r1 2.402 0 GH 0.256 dBr 1 1 1 1 1 1 1 1 1 1 1 1 1
0 dB/div 2enter F 0 dB/div 10.6 10.6 10.6 39.5 49.5 59.5 50	ectrum Analyzer - Swept RF 50 Ω req 2.3566000 Ref Offset 0.5 c Ref 20,50 dE 0600 GHz 100 kHz Ref Scu	SA AC 000 GHz 	SENS PNO: Fast →→ Gain:Low #VBW 4 0.256 d	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10,202 TRACE 1, 23,45 TYPE M WWW DET P NNNN r1 2.402 0 GH 0.256 dBr 1
0 dB/div 0 dB/div 0 g 10.5	ectrum Analyzer - Swept RF S0 Ω req 2.3566000 Ref Offset 0.5 d Ref 20,50 dE S0 0 Ref 20,50 dE Ref 20,50 dE Re	SA AC D000 GHZ F F F F F F F F F F F F F F F F F F F	SENS PNO: Fast →→ Gain:Low #VBW ¥VBW Y 0.256 d -56.319 d	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10,20: TRACE 1 23.45 TYPE M WWW DET P NNN r1 2.402 0 GH 0.256 dBr 1 1 1 1 1 1 1 1 1 1 1 1 1
RL Conterned Conte	ectrum Analyzer - Swept RF S0 Ω req 2.3566000 Ref Offset 0.5 d Ref 20,50 dE S0 0 Ref 20,50 dE Ref 20,50 dE Re	SA AC D000 GHZ F F F F F F F F F F F F F F F F F F F	SENS PNO: Fast →→ Gain:Low #VBW ¥VBW Y 0.256 d -56.319 d	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10,20: TRACE 1 23.45 TYPE M WWW DET P NNN r1 2.402 0 GH 0.256 dBr 1 1 1 1 1 1 1 1 1 1 1 1 1
RL Image: Constraint of the second seco	ectrum Analyzer - Swept RF S0 Ω req 2.3566000 Ref Offset 0.5 d Ref 20,50 dE S0 0 Ref 20,50 dE Ref 20,50 dE Re	SA AC D000 GHZ F F F F F F F F F F F F F F F F F F F	SENS PNO: Fast →→ Gain:Low #VBW ¥VBW Y 0.256 d -56.319 d	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10, 20 TRACE 12, 3 4: TYPE MWWW DET P NNNI r1 2.402 0 GH 0.256 dBI 1.1578 d 1.1578 d
RL Conterned Conte	ectrum Analyzer - Swept RF S0 Ω req 2.3566000 Ref Offset 0.5 d Ref 20,50 dE S0 0 Ref 20,50 dE Ref 20,50 dE Re	SA AC D000 GHZ F F F F F F F F F F F F F F F F F F F	SENS PNO: Fast →→ Gain:Low #VBW ¥VBW Y 0.256 d -56.319 d	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100 Mk #Sweep 11	03:00:47 PMFeb 10, 20 TRACE 12, 3 4: TYPE MWWW DET P NNNI r1 2.402 0 GH 0.256 dBI 1.1578 d 1.1578 d



Page 53 of 58 Report No.: STS2302023W09

Keysight Spectrum Analyze RL RF	er - Swept SA 50 Ω AC	SENSE:P	ULSE	ALIGN AUTO	03:05:17 PM Feb 10, 20
Center Freq 2.48	30000000 GHz			Avg Type: Log-P	Wr TRACE 1 2 3 4 5
			rig: Free Run Atten: 30 dB	Avg Hold: 100/100	DET P N N N
D-60%-					Mkr1 2.480 000 GH
0 dB/div Ref 20.	et 0.5 dB . 50 dBm				0.465 dBi
og			Ť		
10.5					
10.5			1		
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9.50			$\langle \rangle$		
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49.5		Mark			
+2.0	when we had			wy ma	
59.5 million March March	and and and a share of the			^^ ^ \v	ANO Manager man man hand and hand and
allotten an a second star of alloying	able Land				at reason in the second state of the second state of the second sec
69.5					
enter 2.480000 C	<u></u>		k		Span 8.000 MH
Res BW 100 kHz		#VBW 3	00 kHz	#	Sweep 100.0 ms (1001 pt
sg				STATUS	
	Band Edge	NVNI B	6LE 1M 2	480MHz Emis	ssion
Keysight Spectrum Analyze RL RF	er - Swept SA 50 Ω AC	SENSE:P			
				ALIGN AUTO	
enter Freq 2.52	26000000 GHz			ALIGN AUTO Avg Type: Log-P	03:05:31 PM Feb 10, 20 WF TRACE 1 2 3 4 5
enter Freq 2.52	26000000 GHz	NO: Fast T	rig: Free Run Atten: 30 dB		03:05:31 PM Feb 10, 20 WF TRACE 1 2 3 4 5
	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 20: Wr TRACE 1 2 3 4 5 TYPE M WAAWA
Ref Offs 0 dB/div Ref 20	26000000 GHz	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 20: Wr TRACE 1 2 3 4 5 TYPE M WWW DET P N N N
Ref Offs 0 dB/div Ref 20	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 20; wr TRACE 1 2 3 4 TYPE MWWW DET P NNN1 Mkr1 2.480 0 GH
0 dB/div Ref Offs Pg	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 20; wr TRACE 1 2 3 4 TYPE MWWW DET P NNN1 Mkr1 2.480 0 GH
0 dB/div Ref Offs 0 dB/div Ref 20 10.5 10.5	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 20; wr TRACE 1 2 3 4 TYPE MWWW DET P NNN1 Mkr1 2.480 0 GH
Ref Offs 0 dB/div Ref 20 0 dB/div 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Ref Offs 0 dB/div 0 dB/d	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 20; wr TRACE 1 2 3 4 TYPE MWWW DET P NNN1 Mkr1 2.480 0 GH
Ref Offs 0 dB/div 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Ref Offs 0 dB/div 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Ref Offs 0 dB/div 9 d 9 d 9 d 9 d 9 d 9 d 9 d 9 d	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Ref Offs 0 dB/div 9 0 9 50 9 50	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Ref Offs 0 dB/div 9 0 9 50 19.5 9 50 19.5 9 50 19.5 9 50 19.5 9 50 19.5	26000000 GHz Pr IFC	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Bef Offs Ref Offs Ref 20 9.50 9.	26000000 GHz Pr IFC :et 0.5 dB .50 dBm	NO: Fast ++ T	rig: Free Run	Avg Type: Log-P	03:05:31 PMFeb 10, 20 3 4 TRACE 12 3 4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 19:54 dt
0 dB/div Ref 20 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0	26000000 GHz Pr IFC et 0.5 dB .50 dBm	NO: Fast ++ T	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg]Hold: 100/100	03:05:31 PM Feb 10, 02 WT TRACE 12:3.4 TYPE M WWWW DET P NNN1 Mkr1 2.480 0 GH 0.156 dBr
Ref Offs Ref 20 0 dB/div 10.5 500 9.50 19.5 29.5 39.5 49.5 59.	26000000 GHz Pr IFC et 0.5 dB .50 dBm	NO: Fast \rightarrow T sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 23 4 TYPE MAKE TYPE MAKE 0.156 dBr 0.156 dBr
Ref Offs 0 dB/div 9 50 9.50	26000000 GHz PI IFC PI IFC PI IFC PI IFC PI IFC PI IFC IFC IFC IFC IFC IFC IFC IF	NO: Fast \rightarrow T Sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg]Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div Ref 20 9 9 9 9 9 9 9 9 9 9 9 9 9	26000000 GHz PI IFC iet 0.5 dB .50 dBm .50 dBm .50 dBm .50 dBm .50 dBm	NO: Fast T Sain:Low #V	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div 9 10.5 500 9.50 19.5 19.5 19	26000000 GHz Pr IFC et 0.5 dB .50 dBm 2.50 dBm 2.480 0 GHz 2.480 0 GHz 2.483 5 GHz	VO: Fast → T jain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div 9 50 10.5 500 9.50 19.5 29.5 39.5 49.5 50.5 50.5	26000000 GHz PI IFC PI IFC PI PI PI PI PI PI PI PI PI PI	WC: Fast →→ T Sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div 9 0 10.5 500 9.50 19.5 29.5 39.5 49.5 50.5 50.5	26000000 GHz PI IFC PI IFC PI PI PI PI PI PI PI PI PI PI	WC: Fast →→ T Sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div 9 10.6 500 9.50 19.5 9.50 19.5 9.50 19.5 9.50 19.5 9.50 19.5 10.6 10	26000000 GHz PI IFC PI IFC PI PI PI PI PI PI PI PI PI PI	WC: Fast →→ T Sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div 9 50 10.5 500 9 50 19.5 29.5 39.5 49.5 59.5 59.5 59.5 59.5 50.5	26000000 GHz PI IFC PI IFC PI PI PI PI PI PI PI PI PI PI	WC: Fast →→ T Sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d
Ref Offs 0 dB/div Ref 20 0 g 10.6 500 9.60 9.70 9.60 9.70	26000000 GHz PI IFC PI IFC PI PI PI PI PI PI PI PI PI PI	WC: Fast →→ T Sain:Low #/	rig: Free Run Atten: 30 dB	Avg Type: Log-Pr Avg Hold: 100/100	03:05:31 PMFeb 10, 02 WT TRACE 12 3.4 TYPE MWWW DET P NNN Mkr1 2.480 0 GH 0.156 dBr 0.156 dBr 0.1954 d

Band Edge NVNT BLE 1M 2480MHz Ref



Page 54 of 58 Report No.: STS2302023W09

7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-35.25	<=-20	Pass
NVNT	BLE 1M	2440	-45.35	<=-20	Pass
NVNT	BLE 1M	2480	-36.33	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.



Keysight Spectrum Ani R L RF	50 Ω AC		SENSE:PULSE	ALIGN AUTO	03:01:03 PM Feb 10, 20
enter Freq 2.	402000000 GHz	PNO: Wide ← IFGain:Low	► Trig: Free Run Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 100/100	TYPE MWWW DET P N N N
	ffset 0.5 dB 30.00 dBm			Mkr′	1 2.401 998 5 GF 0.260 dB
og					
20.0					
10.0					
0.00					
0.0					
20.0					
30.0					
0.0					
50.0					
50.0					
.0.0					
enter 2.40200					Span 1.500 MH
Res BW 100 kl	7	#\			
		π •	/BW 300 kHz	•	o 100.0 ms (1001 pt
G				STATUS	
G Keysight Spectrum Ana	Tx. Spur	ious NVI	NT BLE 1M 2	status 402MHz Emissio	n
G Keysight Spectrum And RL RF	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS	03:01:14 PM Feb 10, 20 TRACE 1 2 3 4 TYPE M WAY
sg Keysight Spectrum An. RL RF enter Freq 13	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS 402MHz Emissio Align auto Avg Type: Log-Pwr Avg[Hold: 10/10	O3:01:14 PM Feb 10, 20: TRACE [1 2 20 TRACE [1 2 20 TRACE [1 2 20 TRACE [1 2 20 TRACE [1 2 20]
sg RL RF enter Freq 13 Ref 0	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS 402MHz Emissio Align auto Avg Type: Log-Pwr Avg[Hold: 10/10	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TRACE 1 2 3 4 5 TYPE MUNIT DET P NNNT Mkr1 2.402 6 GH
Keysight Spectrum An RL RF enter Freq 1: 0 Ref 0 0 Ref 2 20 Ref 2	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS 402MHz Emissio Align auto Avg Type: Log-Pwr Avg[Hold: 10/10	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TRACE 1 2 3 4 5 TYPE MUNIT DET P NNNT Mkr1 2.402 6 GH
Keysight Spectrum An RL RF enter Freq 13 0 dB/div Ref 3	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS 402MHz Emissio Align auto Avg Type: Log-Pwr Avg[Hold: 10/10	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TRACE 1 2 3 4 5 TYPE MUNIT DET P NNNT Mkr1 2.402 6 GH
Keysight Spectrum An RL RF enter Freq 13 0 0B/div 20 6 0.00 10.0	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS 402MHz Emissio Align auto Avg Type: Log-Pwr Avg[Hold: 10/10	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNN Mkr1 2.402 6 GH -7.547 dBr
Keysight Spectrum An RL RF enter Freq 13 0 dB/div 20 6 0.00 0.00	Tx. Spur	ious NVI	NT BLE 1M 2	STATUS 402MHz Emissio Align auto Avg Type: Log-Pwr Avg[Hold: 10/10	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TRACE 1 2 3 4 5 TYPE MUNIT DET P NNNT Mkr1 2.402 6 GH
Keysight Spectrum An RL RF enter Freq 13 0 0 0 0 20 0 0 0 0.00 0 0.00 10.0 0.00 10.0	Tx. Spur	ious NVI	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS 402MHz Emissio ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNN Mkr1 2.402 6 GH -7.547 dBr
Keysight Spectrum An RL RF center Freq 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spur	ious NVI	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNN Mkr1 2.402 6 GH -7.547 dBr
Reysight Spectrum Ann RL RF enter Freq 13 0 0	Tx. Spur	Z PNC: Fast IFGain:Low	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS	IN 03:01:14 PMFeb 10, 20: TRACE 1 2 3 4 TYPE M WWW DET P NNN Mkr1 2.402 6 GH -7.547 dBr -19.74 db
Keysight Spectrum An RL RF center Freq 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spur	ious NVI	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS	03:01:14 PM Feb 10, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNN Mkr1 2.402 6 GH -7.547 dBr
Keysight Spectrum An RL Ref center Freq 13 0 B/div 0 B/div 0 B/div 0 B/div 0 B/div 0 Content freq 13 0 Content freq 14 0 Content freq 13 0 Content freq 14	Tx. Spur	ious NVI	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS 402MHz Emissio AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 	n 03:01:14 PM Feb 10, 20 TRACE [] 2 3 4 TYPE DET P NNN1 Mkr1 2.402 6 GH -7.547 dBr -19.74 dBr
Keysight Spectrum An RL Ref center Freq 13 0 B/div 0 B/div 20 P 0 B/div 20 P 0 B/div 20 P 0	Tx. Spur	PNC: Fast PNC: Fast IFGain:Low	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS 402MHz Emissio AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 	IN 03:01:14 PM Feb 10, 20: TRACE 1 2:345 TYPE WARDS 6 GH -7.547 dBr -1974 dB -1974 dB Stop 26.50 GH 100.0 ms (30001 pt
Keysight Spectrum An RL Ref O odB/div Ref O 0 dB/div Ref O 0 0 d 0 <td>Tx. Spur</td> <td>Z PNO: Fast IFGain:Low #V GHz -7.5 GHz -7.5 GHz -47.1 GHz -47.4 GHz -47.4</td> <td>NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB Sense:Pulse Trig: Free Run Atten: 40 dB Sense:Pulse Sense:Pulse Trig: Free Run Atten: 40 dB Sense:Pulse S</td> <td>STATUS 402MHz Emissio AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 </td> <td>IN 03:01:14 PM Feb 10, 20: TRACE 1 2:345 TYPE WARDS 6 GH -7.547 dBr -1974 dB -1974 dB Stop 26.50 GH 100.0 ms (30001 pt</td>	Tx. Spur	Z PNO: Fast IFGain:Low #V GHz -7.5 GHz -7.5 GHz -47.1 GHz -47.4 GHz -47.4	NT BLE 1M 2 SENSE:PULSE Trig: Free Run Atten: 40 dB Sense:Pulse Trig: Free Run Atten: 40 dB Sense:Pulse Sense:Pulse Trig: Free Run Atten: 40 dB Sense:Pulse S	STATUS 402MHz Emissio AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 	IN 03:01:14 PM Feb 10, 20: TRACE 1 2:345 TYPE WARDS 6 GH -7.547 dBr -1974 dB -1974 dB Stop 26.50 GH 100.0 ms (30001 pt
Keysight Spectrum An. RL RF enter Freq 13 0 0 0 0 20	Tx. Spur	Z PNO: Fast IFGain:Low #V GHz -7.5 GHz -7.5 GHz -47.1 GHz -47.4 GHz -47.4	NT BLE 1M 2 SENSE:PULSE → Trig: Free Run Atten: 40 dB ////////////////////////////////////	STATUS 402MHz Emissio AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 	IN 03:01:14 PM Feb 10, 20: TRACE 1 2:345 TYPE WARDS 6 GH -7.547 dBr -1974 dB -1974 dB Stop 26.50 GH 100.0 ms (30001 pt

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com



enter Fi	req 2	50 Ω 2.440000		PNO: Wide	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	03:03:10 PM Feb 10, 20 TRACE 1 2 3 4 5 TYPE M WWW DET P N N N
				FGain:Low	#Atten: 30 dB	Mk	(r1 2.439 997 0 GF
) dB/div		Offset 0.5 d 20.50 dB					0.769 dB
°g							
10.5							
500					\		
9.50							
9.5							
9.5							
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9.5							
9.5							
9.5							
enter 2.4 Res BW							Span 1.500 MH
	100 1	(Hz		#VBW	300 kHz	#Swe	ep 100.0 ms (1001 pt
G	100 1	KHZ		#VBW	300 KHZ	#Swe	ep 100.0 ms (1001 pt
ŝG	1001		. Spurio			STATUS	ep 100.0 ms (1001 pt
Keysight Spe	ctrum A	TX	SA	us NVNT	BLE 1M 2	440MHz Emiss	ion
Keysight Spe R L	ctrum A	Tx malyzer - Swept 50 Ω	SA	us NVNT	BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	03:03:20 PM Feb 10, 20: TRACE 1 2 3 4
Keysight Spe R L	ctrum A	Tx malyzer - Swept 50 Ω	sa ac 0000 GHz	us NVNT	BLE 1M 2	STATUS 440MHz Emiss Align Auto	03:03:20 PM Feb 10, 20: TRACE 12 3 4 4
Keysight Spe RL enter Fr	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz IB		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	03:03:20 PMFeb 10, 02 TRACE [234: TYPE MWWW DET P NNNI Mkr1 2.439 7 GH
Keysight Spe RL enter Fr	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500	sa ac 00000 GHz IB		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	03:03:20 PMFeb 10, 20: TRACE [2345 TYPE MWWW DET P NNNT Mkr1 2.439 7 GH
Keysight Spe RL enter Fr 0 dB/div	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz IB		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	03:03:20 PMFeb 10, 20: TRACE [2345 TYPE MWWW DET P NNNT Mkr1 2.439 7 GH
Keysight Spe RL enter Fr o dB/div o dB/div	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz IB		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	03:03:20 PMFeb 10, 20: TRACE [2345 TYPE MWWW DET P NNNT Mkr1 2.439 7 GH
Keysight Spe RL enter Fr 0 dB/div 9 10.5 600 9.50	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz IB		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	OON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 5 TYPE M WWW DET P NNN Mkr1 2.439 7 GH -8.658 dBr
Keysight Spe RL enter Fr 0 dB/div 0 dB/div	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz IB		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	OON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 5 TYPE M WWW DET P NNN Mkr1 2.439 7 GH -8.658 dBr
Keysight Spectrum RL enter Fr 0 dB/div 90 910 925 925	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz I B		BLE 1M 2	ALIGN AUTO AVIG Type: Log-Pwr	OON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 5 TYPE M WWW DET P NNN Mkr1 2.439 7 GH -8.658 dBr
Keysight Spe RL RL O dB/div 0	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz I B		E:PULSE 1M 2	STATUS 440MHz Emiss ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:03:20 PMFeb 10, 20 03:03:20 PMFeb 10, 20 TRACE 2 3 4 TYPE M WWW DET P NNN1 Mkr1 2.439 7 GH -8.658 dBr -1923 db
Keysight Spe RL O dB/div 90 91 92 93 93 93 93 93 93 93 93 93 93	req 1 Ref	Tx inalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa ac 00000 GHz I B	US NVNT SENS PNC: Fast ↔ FGain:Low	E:PULSE 1M 2	STATUS 440MHz Emiss ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	OON 03:03:20 PMFeb 10, 20 TRACE 1 2 3 4 TYPE M WWW DET/P NNNI Mkr1 2.439 7 GH -8.658 dBt
Keysight Spe RL enter Fi 0 dB/div 0 g 10.5 500 3.50 19.5 39.5 49.5 59.5 60.1010	Ref Ref	Tx 150 Ω 150	sa ac 00000 GHz I B	US NVNT SENS PNC: Fast ↔ FGain:Low	E:PULSE 1M 2	STATUS 440MHz Emiss ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	ON 03:03:20 PMFeb 10, 20 TRACE 1 2 3 4 TYPE M WWW DET P NNN Mkr1 2.439 7 GH -8.658 dBr
Keysight Spe RL eenter Fr 0 dB/div 9 g 10.5 500 9.50 9	Ref Ref Ref	Tx 1502 13.26500 0ffset 0.5 d 20.50 dE	sa ac 00000 GHz I B		BLE 1M 2	STATUS 440MHz Emiss AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	OON 03:03:20 PMFeb 10, 20 TRACE 2 3 4 1 TYPE MWWW DET P NNN1 Mkr1 2.439 7 GH -8.658 dBr -1923 d -1923 d -1923 d -1923 d
Keysight Spe RL enter Fr 0 0	Ref Ref GHz	Tx Iso Q Iso Q	sa ac 00000 GHz I B		BLE 1M 2	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	ON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 TYPE M WWW DET P NNW Mkr1 2.439 7 GH -8.658 dBr -19:23 d -19:23 d -
Keysight Spe RL enter Fr 0 dB/div	Ctrum A RF Ref Ref GHz	Tx Iso Q Iso Q	SA AC 00000 GHz B B m S S A A A A A A A A A A A A A A A A A	US NVNT SENS PNC: East ↔ FGain:Low \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	BLE 1M 2	STATUS 440MHz Emiss AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	OON 03:03:20 PMFeb 10, 20 TRACE 2 3 4 1 TYPE MWWW DET P NNN1 Mkr1 2.439 7 GH -8.658 dBr -1923 d -1923 d -1923 d -1923 d
Keysight Spe RL enter Fr 0 dB/div 9 0.5 9.50 <td< td=""><td>Ctrum A RF req 1 Ref Ref CHz 100 I</td><td>Tx Iso Q Iso Q</td><td>SA AC 00000 GHz I B m 3 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 5 4 5 4</td><td>US NVNT SENS PNC: Fast → FGain:Low</td><td>BLE 1M 2</td><td>ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10</td><td>ON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 TYPE M WWW DET P NNW Mkr1 2.439 7 GH -8.658 dBr -19:23 d -19:23 d -</td></td<>	Ctrum A RF req 1 Ref Ref CHz 100 I	Tx Iso Q Iso Q	SA AC 00000 GHz I B m 3 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 5 4 5 4	US NVNT SENS PNC: Fast → FGain:Low	BLE 1M 2	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	ON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 TYPE M WWW DET P NNW Mkr1 2.439 7 GH -8.658 dBr -19:23 d -19:23 d -
Keysight Spe RL RL 0 dB/div 9 0.5 9.5 99.5 10.03 10.03 11 12 12 13 14 10 10	Ctrum A RF Ref Ref GHz 1000	Tx Iso Q Iso Q	SA AC 00000 GHz B m 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	US NVNT SENS PNC: Fast →→ FGain:Low FGain:Low	BLE 1M 2	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	ON 03:03:20 PMFeb 10, 20: TRACE 1 2 3 4 TYPE M WWW DET P NNW Mkr1 2.439 7 GH -8.658 dBr -19:23 d -19:23 d -
Keysight Spe RL enter Fr 0 dB/div	Ctrum A Ref Ref Ref Ref GHz 1000	Tx Iso Q Iso Q	SA AC 00000 GHz B m m 3 4 4 4 4 5 4 5 4 5 4 7 4 7 4 7 4 7 4 7 5 4 7 5 4 7 5 4 7 5 4 7 5 4 7 5 4 7 5 7 5	US NVNT SENS PNC: Fast →→ FGain:Low 5 5 4 4 4 4 4 56.18 4 - 56.623 di - 56.623 di - 56.725 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 57.555 di	BLE 1M 2	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	ON 03:03:20 PMFeb 10,20 TRACE 1 2 3 41 TYPE M WWW DET P NNW OET P NNW 057 P NNW 0
Keysight Spe RL RL 0 dB/div 9 0.5 9.5 99.5 10.03 10.03 11 12 12 13 14 10 10	Ctrum A Ref Ref Ref Ref GHz 1000	Tx Iso Q Iso Q	SA AC 00000 GHz B m m 3 4 4 4 4 5 4 5 4 5 4 7 4 7 4 7 4 7 4 7 5 4 7 5 4 7 5 4 7 5 4 7 5 4 7 5 4 7 5 7 5	US NVNT SENS PNC: Fast →→ FGain:Low 5 5 4 4 4 4 4 56.18 4 - 56.623 di - 56.623 di - 56.725 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 56.755 di - 57.555 di	BLE 1M 2	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	ON 03:03:20 PMFeb 10,20 TRACE 1 2 3 41 TYPE M WWW DET P NNW OET P NNW 057 P NNW 0

Tx. Spurious NVNT BLE 1M 2440MHz Ref



Page 57 of 58 Report No.: STS2302023W09

Keysight Spectrum Analyzer	- Swept SA						
	50 Ω AC	SENS	E:PULSE	ALIGN AUTO Avg Type:	Log-Pwr	03:05:	48 PM Feb 10, 20 FRACE 1 2 3 4
enter Freq 2.480		PNO: Wide 🔸	Trig: Free Run Atten: 40 dB	Avg Hold:			TYPE MWWW DET P N N N
		IFGain:Low	Atten: 40 dB		Mki	r1 2.479 9	-
dB/div Ref 30.0							.437 dB
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enter 2.4800000 (Eno	n 1.500 M
	3112	<i>//</i>) (B) (000		#0	эра ер 100.0 m	
Res BW 100 kHz		#VBW	300 kHz		#Swee	sp 100.011	15 (100 I P
G G G G G G G G G G G G G G G G G G G		#VBN	300 KHZ	STATUS	#Swee	p 100.0 m	15 (1001 p
	Tx Spurio						is (1001 pi
G	Tx. Spurio						· ·
G Keysight Spectrum Analyzer R L RF :	- Swept SA 50 Ω AC	us NVNT		2480MHz	Emissio	on 03:05::	57 PM Feb 10, 20
G Keysight Spectrum Analyzer	- Swept SA 50 Ω AC 55000000 GHz		BLE 1M 2	2480MHz	Emissio	on 03:05::	57 PM Feb 10, 20 RACE 1 2 3 4
G Keysight Spectrum Analyzer R L RF :	- Swept SA 50 Ω AC 55000000 GHz	US NVNT	BLE 1M	2480MHz Align Auto Avg Type:	Emissio	03:05:: 1	57 PM Feb 10, 20 TRACE 1 2 3 4 TYPE M WWW DET P N N N
G Keysight Spectrum Analyzer RL RF enter Freq 13.20 Ref Offse	- Swept SA 50 Ω AC 55000000 GHz 1 10.5 dB		BLE 1M 2	2480MHz Align Auto Avg Type:	Emissio	ON 03:05: Mkr1 2.4	57 PM Feb 10, 20 TYPE 12 3 4 TYPE M WWW DET P NNN 180 2 GH
Reysight Spectrum Analyzer RL RF enter Freq 13.20 Ref Offse 0 dB/div Ref 30.1	- Swept SA 50 Ω AC 55000000 GHz 1 10.5 dB		BLE 1M 2	2480MHz Align Auto Avg Type:	Emissio	ON 03:05: Mkr1 2.4	57 PM Feb 10, 20 FRACE 1 2 3 4 TYPE MWWW DET P NNN BET P NNN BET 2 GH
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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.



Shenzhen STS Test Services Co., Ltd.