

# **RADIO TEST REPORT**

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## Report No.:STS2102020W03

Issued for

Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch

8F.-3, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan

Product Name:	Mobile Computing Device
Brand Name:	AMobile
Model Name:	G47
Series Model:	N/A
FCC ID:	2AQ5W-G47
Test Standard:	FCC Part 15.247

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Shenzhen STS Test Services Co., Ltd. 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 E-mail:sts@stsapp.com





## **TEST RESULT CERTIFICATION**

Applicant's Name	Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
Address	8F3, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
	Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
Address	8F3, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Product Description	
Product Name:	Mobile Computing Device
Brand Name:	AMobile
Model Name:	G47
Series Model	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

Test Result	Pass
Date of Issue	11 Mar. 2021
Date (s) of performance of tests:	05 Feb. 2021 ~ 11 Mar. 2021
Date of receipt of test item	05 Feb. 2021

**Testing Engineer** (Chris Chen) **Technical Manager** he APPROV (Sean she) Authorized Signatory : (Vita Li)



#### **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	15
3.1 CONDUCTED EMISSION MEASUREMENT	15
3.2 TEST PROCEDURE	16
3.3 TEST SETUP	16
3.4 EUT OPERATING CONDITIONS	16
3.5 TEST RESULTS	17
4. RADIATED EMISSION MEASUREMENT	19
4.1 RADIATED EMISSION LIMITS	19
4.2 TEST PROCEDURE	21
4.3 TEST SETUP	22
4.4 EUT OPERATING CONDITIONS	22
4.5 FIELD STRENGTH CALCULATION	23
4.6 TEST RESULTS	24
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	31
5.1 LIMIT	31
5.2 TEST PROCEDURE	31
5.3 TEST SETUP	31
5.4 EUT OPERATION CONDITIONS	31
5.5 TEST RESULTS	32
6. POWER SPECTRAL DENSITY TEST	36
6.1 LIMIT	36
6.2 TEST PROCEDURE	36
6.3 TEST SETUP	36

Page 4 of 46 Report No.: STS2102020W03



#### **Table of Contents**

6.4 EUT OPERATION CONDITIONS	36
6.5 TEST RESULTS	37
7. BANDWIDTH TEST	39
7.1 LIMIT	39
7.2 TEST PROCEDURE	39
7.3 TEST SETUP	39
7.4 EUT OPERATION CONDITIONS	39
7.5 TEST RESULTS	40
8. PEAK OUTPUT POWER TEST	42
8.1 LIMIT	42
8.2 TEST PROCEDURE	42
8.3 TEST SETUP	43
8.4 EUT OPERATION CONDITIONS	43
8.5 TEST RESULTS	44
9. ANTENNA REQUIREMENT	45
9.1 STANDARD REQUIREMENT	45
9.2 EUT ANTENNA	45
10. EUT TEST PHOTO	46

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Page 5 of 46 Report No.: STS2102020W03

## **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	11 Mar. 2021	STS2102020W03	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			
15.247 (c)	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 C63.10-2013.

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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	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 30-1GHz	±5.6dB
4	All emissions, radiated 1G-6GHz	±5.5dB
5	All emissions, radiated>6G	±5.8dB
6	Conducted Emission (9KHz-150KHz)	±3.37dB
7	Conducted Emission (150KHz-30MHz)	±3.83dB



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Mobile Computing Device		
Trade Name	AMobile		
Model Name	G47		
Series Model	N/A		
Model Difference	N/A		
	The EUT is a Mobile	e Computing Device	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Radio Technology:	BLE	
	Bluetooth Version:	4.1	
Product Description	Bluetooth		
	Configuration:	LE	
	Number Of Channel:	40	
	Antenna Designation:	Please refer to the Note 3.	
	Antenna Gain (dBi)	2.06 dBi	
Channel List	Please refer to the N	Note 2.	
Power Rating	Input: DC 5V/2A, 9V	//2A, 12V/1.5A	
Battery	Rated Voltage: 3.8V Charge Limit Voltage: 4.35V Capacity: 4000mAh		
Hardware version number	DVT		
Software version number	v005.01.00		
Connecting I/O Port(s)	Please refer to the N	Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



2.								
	Channel List							
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
	00	2402	10	2422	20	2442	30	2462
	01	2404	11	2424	21	2444	31	2464
	02	2406	12	2426	22	2446	32	2466
	03	2408	13	2428	23	2448	33	2468
	04	2410	14	2430	24	2450	34	2470
	05	2412	15	2432	25	2452	35	2472
	06	2414	16	2434	26	2454	36	2474
	07	2416	17	2436	27	2456	37	2476
	08	2418	18	2438	28	2458	38	2478
	09	2420	19	2440	29	2460	39	2480

3.

#### Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	AMobile	G47	PIFA	N/A	2.06 dBi	BLE ANT



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

(2) 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.

(3) 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	2.06	Default	Engineering Mode

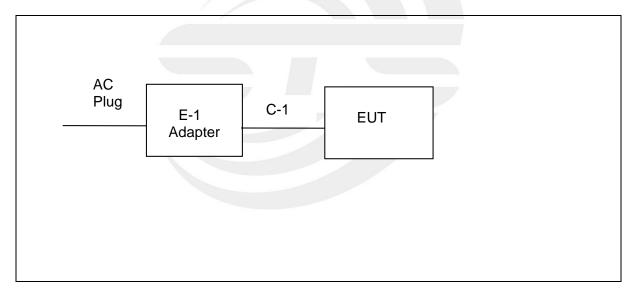


## 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

## 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.

	Necessary accessories					
Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note	
C-1	USB Cable	N/A	N/A	200cm	NO	

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	HUAWEI	HW-050450C00	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>r</sup> Length <sup>a</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



## 2.6 EQUIPMENTS LIST

#### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11		
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09		
Active loop Antenna	ZHINAN	ZN30900C	16035	2019.07.11	2021.07.10		
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11		
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2019.10.15	2021.10.14		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11		
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11		
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11		
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.10.10	2021.10.09		
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12		
Turn table	EM	SC100_1	60531	N/A	N/A		
Antenna mast	EM	SC100	N/A	N/A	N/A		
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)					

#### Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
LISN	R&S	ENV216	101242	2020.10.12	2021.10.11
LISN	EMCO	3810/2NM	23625	2020.10.12	2021.10.11
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

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## **RF** Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
		U2021XA	MY55520005	2020.10.10	2021.10.09	
Power Sensor	Kovoight		MY55520006	2020.10.10	2021.10.09	
Fower Serisor	Power Sensor Keysight		MY56120038	2020.10.10	2021.10.09	
			MY56280002	2020.10.10	2021.10.09	
Signal Analyzer	Agilent	N9020A	MY51110105	2021.03.04	2022.03.03	
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12	
MIMO Power	Kavaisht		MVEEEDOODE	2020 40 40	2024 40 00	
measurement test Set	Keysight	U2021XA	MY55520005	2020.10.10	2021.10.09	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				



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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 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.



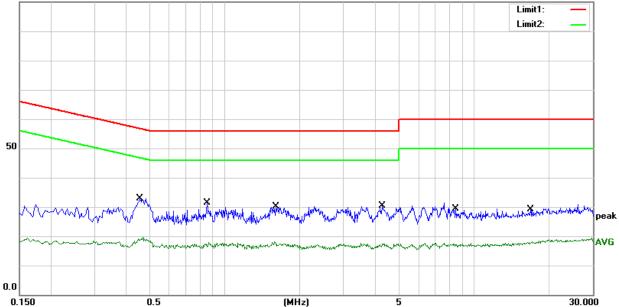
3.5 TEST RESULTS

Temperature:	26.8(C)	Relative Humidity:	66%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

No.	Frequen cy	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.4580	12.51	20.47	32.98	56.73	-23.75	QP
2	0.4580	-1.25	20.47	19.22	46.73	-27.51	AVG
3	0.8500	11.07	20.22	31.29	56.00	-24.71	QP
4	0.8500	-2.83	20.22	17.39	46.00	-28.61	AVG
5	1.6020	10.06	20.15	30.21	56.00	-25.79	QP
6	1.6020	-2.29	20.15	17.86	46.00	-28.14	AVG
7	4.2860	10.28	20.05	30.33	56.00	-25.67	QP
8	4.2860	-2.59	20.05	17.46	46.00	-28.54	AVG
9	8.4580	9.44	19.88	29.32	60.00	-30.68	QP
10	8.4580	-2.87	19.88	17.01	50.00	-32.99	AVG
11	16.8940	8.82	20.28	29.10	60.00	-30.90	QP
12	16.8940	-2.17	20.28	18.11	50.00	-31.89	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)





Temperature:	26.8(C)	Relative Humidity:	66%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 4		

No.	Frequen cy	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.4580	15.53	20.47	36.00	56.73	-20.73	QP
2	0.4580	-1.46	20.47	19.01	46.73	-27.72	AVG
3	1.0620	13.37	20.16	33.53	56.00	-22.47	QP
4	1.0620	-3.01	20.16	17.15	46.00	-28.85	AVG
5	2.3140	11.17	20.13	31.30	56.00	-24.70	QP
6	2.3140	-3.30	20.13	16.83	46.00	-29.17	AVG
7	3.6340	12.41	20.07	32.48	56.00	-23.52	QP
8	3.6340	-3.01	20.07	17.06	46.00	-28.94	AVG
9	7.5860	15.41	19.90	35.31	60.00	-24.69	QP
10	7.5860	-2.29	19.90	17.61	50.00	-32.39	AVG
11	19.8980	9.06	20.64	29.70	60.00	-30.30	QP
12	19.8980	-1.99	20.64	18.65	50.00	-31.35	AVG

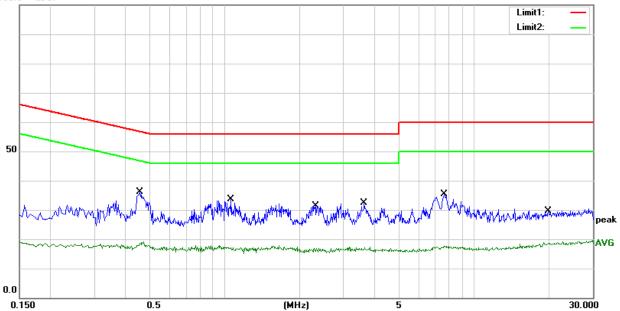
Remark:

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 Eroguopov	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz		
RB / VB	1 MHz / 3 MHz(Peak)		
	1 MHz/1/T MHz(AVG)		

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Page 21 of 46 Report No.: STS2102020W03

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

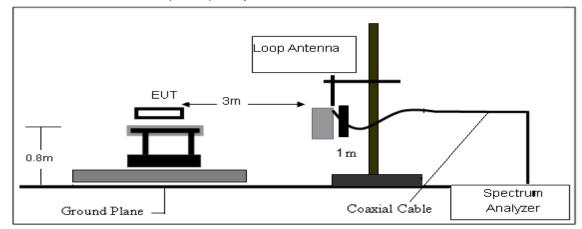
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the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

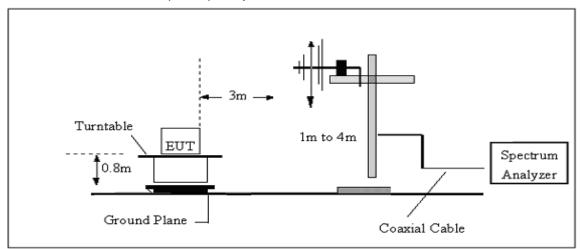


#### 4.3 TEST SETUP

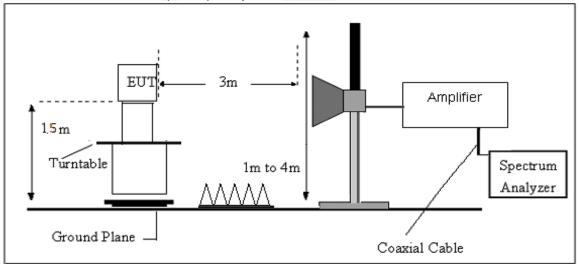
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 - AG Where 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 3.8V	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.





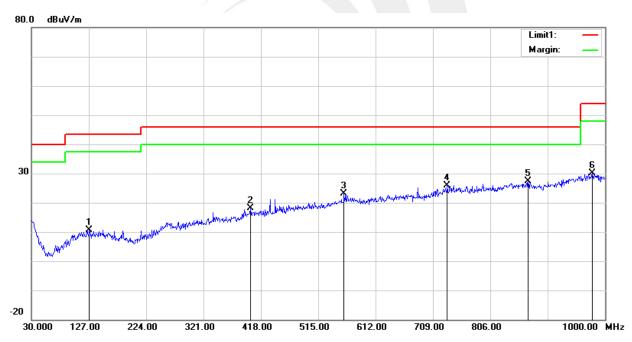
(30MHz -1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH	
Test Voltage:	DC 3.8V	Phase:	Horizontal	
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)			

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	127.9700	28.98	-18.25	10.73	43.50	-32.77	QP
2	400.5400	29.32	-11.11	18.21	46.00	-27.79	QP
3	558.6500	28.74	-5.52	23.22	46.00	-22.78	QP
4	733.2500	28.29	-2.35	25.94	46.00	-20.06	QP
5	870.0200	27.82	-0.53	27.29	46.00	-18.71	QP
6	978.6600	27.48	2.58	30.06	54.00	-23.94	QP

Remark:

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





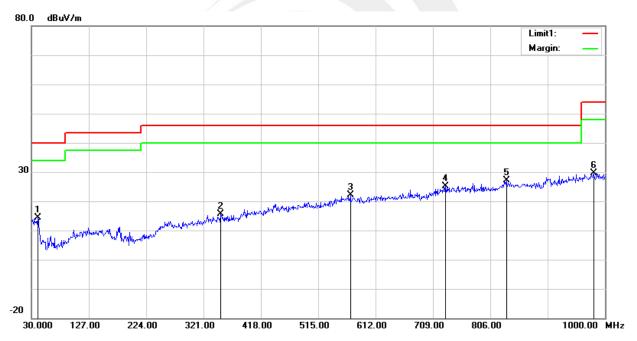
Page 26 of 46 Report No.: STS2102020W03

Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	DC 3.8V	Phase:	Vertical		
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)				

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.6700	32.67	-18.40	14.27	40.00	-25.73	QP
2	350.1000	28.77	-13.06	15.71	46.00	-30.29	QP
3	569.3200	27.71	-5.59	22.12	46.00	-23.88	QP
4	730.3400	27.47	-2.46	25.01	46.00	-20.99	QP
5	833.1600	27.64	-0.62	27.02	46.00	-18.98	QP
6	980.6000	27.05	2.63	29.68	54.00	-24.32	QP

#### 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

Comment	Detector	Margin	Limits	Emission Level	Corrected Factor	Antenna Factor	Loss	Amplifier	Meter Reading	Frequency
	Туре	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dB/m)	(dB)	(dB)	(dBµV)	(MHz)
				2402 MHz)	nannel (GFSK/2	Low Ch				
Vertical	PK	-22.94	74.00	51.06	-9.80	28.20	6.70	44.70	60.86	3264.84
Vertical	AV	-13.82	54.00	40.18	-9.80	28.20	6.70	44.70	49.98	3264.84
Horizontal	PK	-21.89	74.00	52.11	-9.80	28.20	6.70	44.70	61.91	3264.63
Horizontal	AV	-12.69	54.00	41.31	-9.80	28.20	6.70	44.70	51.11	3264.63
Vertical	PK	-18.10	74.00	55.90	-3.56	31.60	9.04	44.20	59.46	4804.34
Vertical	AV	-8.27	54.00	45.73	-3.56	31.60	9.04	44.20	49.29	4804.34
Horizontal	PK	-18.54	74.00	55.46	-3.56	31.60	9.04	44.20	59.02	4804.49
Horizontal	AV	-7.90	54.00	46.10	-3.56	31.60	9.04	44.20	49.66	4804.49
Vertical	PK	-28.00	74.00	46.00	-2.34	32.00	9.86	44.20	48.34	5359.65
Vertical	AV	-16.88	54.00	37.12	-2.34	32.00	9.86	44.20	39.46	5359.65
Horizontal	PK	-28.48	74.00	45.52	-2.34	32.00	9.86	44.20	47.86	5359.65
Horizontal	AV	-17.00	54.00	37.00	-2.34	32.00	9.86	44.20	39.34	5359.65
Vertical	PK	-16.79	74.00	57.21	3.40	35.50	11.40	43.50	53.81	7205.74
Vertical	AV	-5.63	54.00	48.37	3.40	35.50	11.40	43.50	44.97	7205.74
Horizontal	PK	-16.91	74.00	57.09	3.40	35.50	11.40	43.50	53.69	7205.92
Horizontal	AV	-6.97	54.00	47.03	3.40	35.50	11.40	43.50	43.63	7205.92
				/2440 MHz)	hannel (GFSK	Middle C				
Vertical	PK	-21.75	74.00	52.25	-9.80	28.20	6.70	44.70	62.05	3263.02
Vertical	AV	-12.75	54.00	41.25	-9.80	28.20	6.70	44.70	51.05	3263.02
Horizontal	PK	-22.19	74.00	51.81	-9.80	28.20	6.70	44.70	61.61	3263.03
Horizontal	AV	-12.52	54.00	41.48	-9.80	28.20	6.70	44.70	51.28	3263.03
Vertical	PK	-18.33	74.00	55.67	-3.56	31.60	9.04	44.20	59.23	4880.04
Vertical	AV	-7.42	54.00	46.58	-3.56	31.60	9.04	44.20	50.14	4880.04
Horizontal	PK	-18.98	74.00	55.02	-3.56	31.60	9.04	44.20	58.58	4880.01
Horizontal	AV	-7.58	54.00	46.42	-3.56	31.60	9.04	44.20	49.98	4880.01
Vertical	PK	-28.09	74.00	45.91	-2.34	32.00	9.86	44.20	48.25	5357.27
Vertical	AV	-17.08	54.00	36.92	-2.34	32.00	9.86	44.20	39.26	5357.27
Horizontal	PK	-28.77	74.00	45.23	-2.34	32.00	9.86	44.20	47.57	5357.39
Horizontal	AV	-18.08	54.00	35.92	-2.34	32.00	9.86	44.20	38.26	5357.08
Vertical	PK	-16.58	74.00	57.42	3.40	35.50	11.40	43.50	54.02	7320.85
Vertical	AV	-6.36	54.00	47.64	3.40	35.50	11.40	43.50	44.24	7320.85
Horizontal	PK	-17.04	74.00	56.96	3.40	35.50	11.40	43.50	53.56	7320.41
Horizontal	AV	-6.43	54.00	47.57	3.40	35.50	11.40	43.50	44.17	7320.41

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## Page 28 of 46 Report No.: STS2102020W03

				High Char	nnel (GFSK/	2480 MHz)				
3264.86	61.17	44.70	6.70	28.20	-9.80	51.37	74.00	-22.63	PK	Vertical
3264.86	50.57	44.70	6.70	28.20	-9.80	40.77	54.00	-13.23	AV	Vertical
3264.78	61.43	44.70	6.70	28.20	-9.80	51.63	74.00	-22.37	PK	Horizontal
3264.78	49.86	44.70	6.70	28.20	-9.80	40.06	54.00	-13.94	AV	Horizontal
4960.44	58.23	44.20	9.04	31.60	-3.56	54.67	74.00	-19.33	PK	Vertical
4960.44	49.46	44.20	9.04	31.60	-3.56	45.90	54.00	-8.10	AV	Vertical
4960.39	58.83	44.20	9.04	31.60	-3.56	55.27	74.00	-18.73	PK	Horizontal
4960.39	49.25	44.20	9.04	31.60	-3.56	45.69	54.00	-8.31	AV	Horizontal
5359.82	49.42	44.20	9.86	32.00	-2.34	47.08	74.00	-26.92	PK	Vertical
5359.82	38.93	44.20	9.86	32.00	-2.34	36.59	54.00	-17.41	AV	Vertical
5359.69	48.11	44.20	9.86	32.00	-2.34	45.77	74.00	-28.23	PK	Horizontal
5359.69	38.72	44.20	9.86	32.00	-2.34	36.38	54.00	-17.62	AV	Horizontal
7439.90	54.87	43.50	11.40	35.50	3.40	58.27	74.00	-15.73	PK	Vertical
7439.90	44.01	43.50	11.40	35.50	3.40	47.41	54.00	-6.59	AV	Vertical
7439.93	54.52	43.50	11.40	35.50	3.40	57.92	74.00	-16.08	PK	Horizontal
7439.93	43.51	43.50	11.40	35.50	3.40	46.91	54.00	-7.09	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.

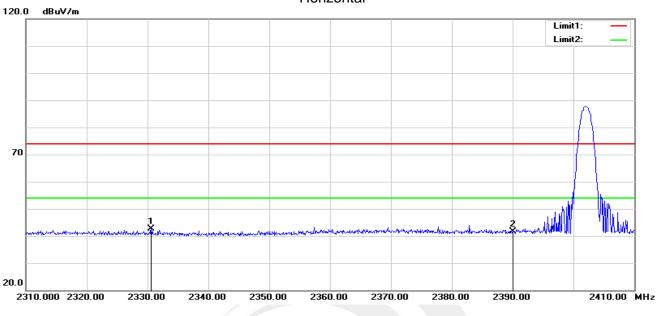




Report No.: STS2102020W03

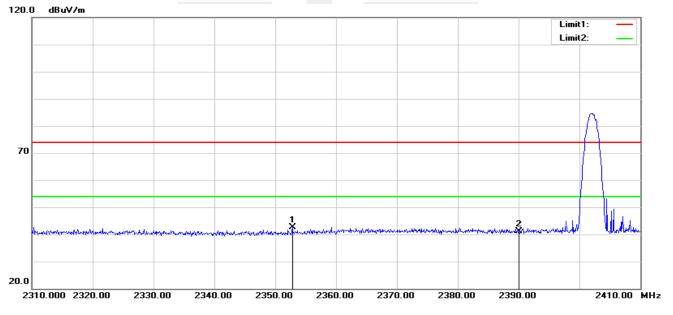
## 4.6 TEST RESULTS (Restricted Bands Requirements)

**GFSK-Low** Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2330.600	38.92	3.63	42.55	74.00	-31.45	peak
2	2390.000	37.36	4.34	41.70	74.00	-32.30	peak

Vertical



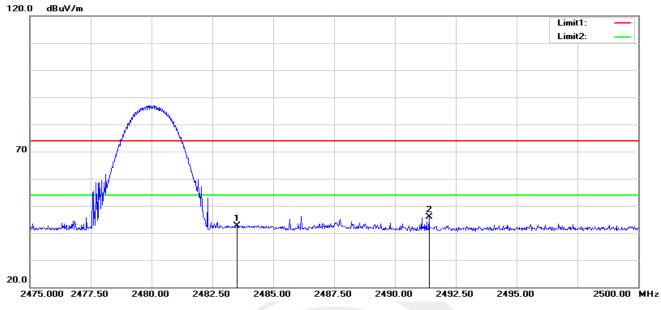
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2352.800	38.89	3.78	42.67	74.00	-31.33	peak
2	2390.000	36.90	4.34	41.24	74.00	-32.76	peak



Page 30 of 46

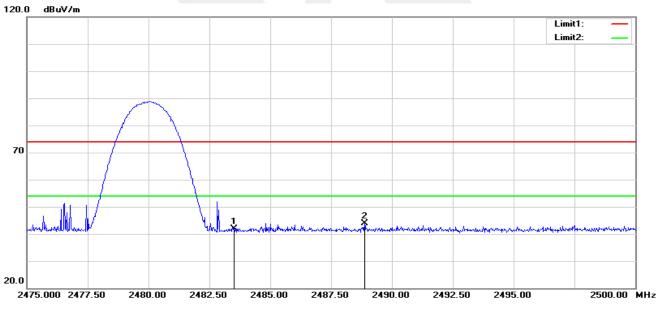
Report No.: STS2102020W03

#### **GFSK-High** Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.10	4.60	42.70	74.00	-31.30	peak
2	2491.400	41.29	4.63	45.92	74.00	-28.08	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.22	4.60	41.82	74.00	-32.18	peak
2	2488.875	39.26	4.62	43.88	74.00	-30.12	peak



## 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 Fraguenov	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 which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal 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

Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 3.8V		TX Mode /CH00, CH19, CH39

#### 00 CH

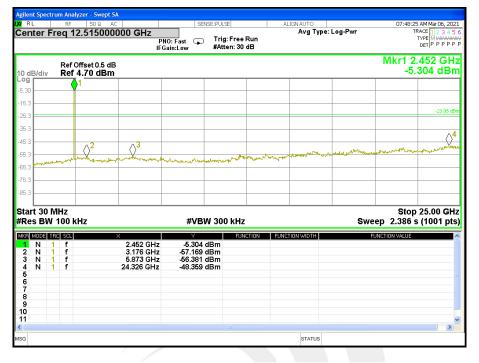
RL		RF	50 Ω	AC			SEN	ISE:PULSE			ALIC	in auto				0	17:45:32	AM Mar 06, 20
enter	Fre	q 12.	51500	0000 G	F	PNO: Fast Gain:Lov			Free Run n: 30 dB	1		Avg	Type:	Log-Pw			T	ICE 1 2 3 4 5 PE MWWWW DET P P P P F
dB/di			set 0.5 d 15 dBr													Mk		402 GH 47 dBi
85		<b>\</b> 1																
.9		_																
.9							_				-							-24.67 d
.9											-							
.9		() <sup>2</sup>			) <sup>3</sup>							- of	man man	mon	menos	adjutan	manun	mound
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R MODE	1 TBC	SCL f		× 2.40	2 GHz		Y 5.847 (	dBm	FUNCTIO	IN I	FUNCTIO	IN WIDT	H		Fl	JNCTION V	ALUE	
N	1	f f		2.55	2 GHz 8 GHz	-5	7.272	dBm										
N	1	f			1 GHz		B.473											
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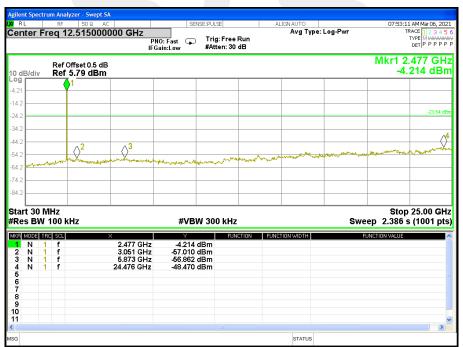
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#### 19 CH



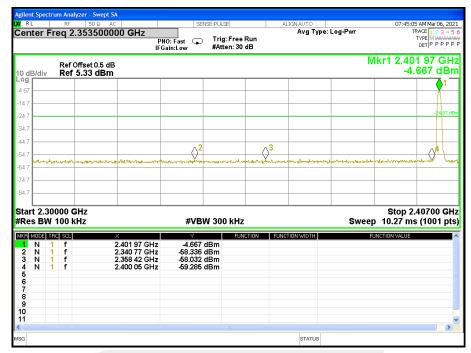
39 CH







#### For Band edge(it's also the reference level for conducted spurious emission)



#### 00 CH

19 CH





## 39 CH

RL		Swept SA						
	RF   50 7eq 2.487∜	Ω AC 500000 C	Р	NO: Fast Gain:Low	NSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type:	-	07:52:44 AM Mar 06, 2 TRACE 1 2 3 4 TYPE M WWW DET P P P F
dB/div	Ref Offset						Mł	(r1 2.480 000 G -3.537 dE
.54								
.5		$-/\uparrow$						-23.54
.5								
.5					3			
.5	monor		haven	marine	malmonder	monominant and	, marine to the second	and
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.5								
	500 GHz 100 kHz			#VB	W 300 kHz		Sweep	Stop 2.50000 G 2.400 ms (1001 p
								· ·
		×		Y	FUNCTION	FUNCTION WIDTH	Fl	JNCTION VALUE
R MODE TR N 1 2 N 1 3 N 1 4 N 1 5	f f f	2.480 2.483 2.486	000 GHz 500 GHz 000 GHz 300 GHz	-3.537 -59.951 -58.070 -58.183	dBm dBm dBm	FUNCTION WIDTH	FL	UNCTION VALUE
N 1 N 1 N 1 N 1	f f f	2.480 2.483 2.486	500 GHz 000 GHz	-59.951 -58.070	dBm dBm dBm	FUNCTION WIDTH	FU	INCTION VALUE
N 1 N 1 N 1 N 1	f f f	2.480 2.483 2.486	500 GHz 000 GHz	-59.951 -58.070	dBm dBm dBm	FUNCTION WIDTH	FL	INCTION VALUE



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## 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

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH00, CH19, CH39

Fraguanay	Power Density	Limit (dBm/3KHz)	Popult	
Frequency	(dBm/3kHz)		Result	
2402 MHz	-18.913	≤8	PASS	
2440 MHz	-18.210	≤8	PASS	
2480 MHz	-17.785	≤8	PASS	

## TX CH00



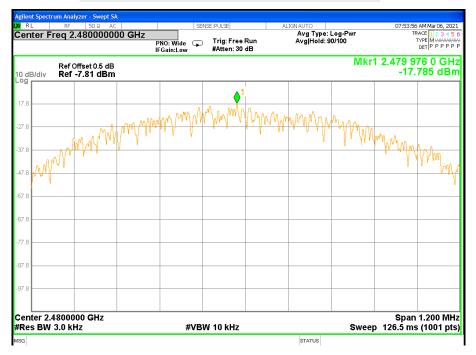
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#### TX CH19



**TX CH39** 



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## 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

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH00, CH19, CH39

Frequency	6dB Bandwidth (KHz)	Limit (KHz)	Result
2402 MHz	645.100	≥500KHz	PASS
2440 MHz	644.700	≥500KHz	PASS
2480 MHz	645.500	≥500KHz	PASS

## **TX CH 00**

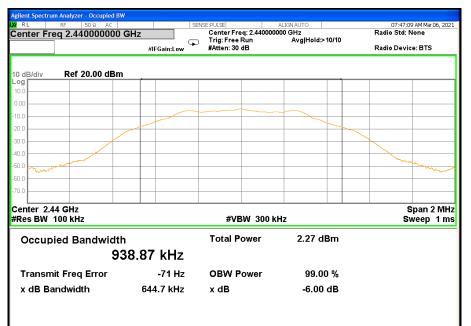
RL RF 50 Q AC	SI	ENSE:PULSE	ALIGNAUTO	07:44:11 AM Mar 06, 2021
enter Freq 2.402000000	GHz	Center Freq: 2.4020000		Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
0 dB/div Ref 20.00 dBm				
og				
10.0				
0.00				
0.0				
20.0				
20.0				
10.0				
50.0				mound
50.0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				- market
70.0				
Center 2.402 GHz Res BW 100 kHz		#VBW 300 ki	47	Span 2 MH: Sweep 1 ms
Res BW 100 KHZ		#VDVV JOOK		Sweep This
Occupied Bandwidth		Total Power	1.56 dBm	
93	9.05 kHz			
Transmit Freq Error	232 Hz	OBW Power	99.00 %	
x dB Bandwidth	645.1 kHz	x dB	-6.00 dB	

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#### TX CH 19



#### **TX CH 39**

STATUS





## 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  $\times$  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.

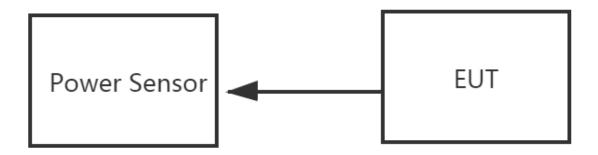
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear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



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#### **8.5 TEST RESULTS**

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH00, CH19, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH0	2402	-3.14	-6.28	30
CH19	2440	-2.76	-5.84	30
CH39	2480	-2.55	-5.64	30

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

#### Duty cycle



Ton	Тр	Duty cycle(%)	Duty factor(dB)
0.412	0.622	66.24%	1.79



## 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

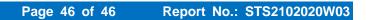
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 9.2 EUT ANTENNA

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



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## 10. EUT TEST PHOTO

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

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



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