

# FCC Test Report

Part 15 subpart C

# **Client Information:**

Applicant:	Fulham Electronic Co., Ltd
Applicant add.:	No.9 Xingchang Road, Nanshao District, Changping Science Area, Beijing, 102200, China
Product Information:	
EUT Name:	CONSTANT CURRENT DRIVER
Model No.:	T1R1UNV150P-150L-XXX
Brand Name:	Fulham
FCC ID:	2AJ9L1R1UNV150P150L

Standards: FCC PART 15 Subpart C: 2017 section 15.247

Prepared By:

# **UL-CCIC Company Limited**

	Add. : Electronic Building, Parage Electronic Industrial Park, No. 8 Nanyun Er		
	Road, Guangzhou	Science Park	, Guangzhou, 510663 China
Date of Receipt:	May. 27 2017	Date of Test:	May. 27~ Jun. 02 2017
Date of Issue:	Jun. 06 2017	Test Result:	Pass

This device described above has been tested by Dongguan Yaxu(AiT) Technology Limited, and 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. This report shall not be reproduced except in full, without the written approval of UL-CCIC Company Limited.

Jonry Brang

**Reviewed by:** 

Richard Di Approved by:



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# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247,Subpart C					
Standard Section	Lest Item Judgment Rema				
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 Band Edge Emission	PASS			
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

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

(2) All tests are according to ANSI C63.10-2013



#### 1.1 TEST FACTORY

BZT Testing Technology Co., Ltd. Add. : Buliding 17, Xinghua Road Xingwei industrial Park Fuyong, Baoan District, Shenzhen, Guangdong, China FCC Registration No.: 701733

#### **1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$  · where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of **k=2** · providing a level of confidence of approximately **95** % °

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions, conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions, radiated (<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions, radiated (>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%



# 2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	CONSTANT CURRENT DRIVER		
Trade Name	Fulham		
Model Name	T1R1UNV150P-150	L-XXX	
Series Model	N/A		
Model Difference	Original Model is T1. XXX=Business or Bu		
Product Description	The EUT is a CONSTANT CURRENT DRIVER      Operation    2405~2480 MHz      Frequency:    2405~2480 MHz      Modulation Type:    GFSK      Radio Technology    Zigbee      Number Of Channel 16CH    Antenna      Designation:    Please see Note 3.      Antenna Gain (dBi)    0 dbi		
Channel List	Please refer to the Note 2.		
Power Voltage	Input: AC 120V, 60 Hz, AC 277V. 60Hz		
Hardware version number	N/A		
Software version number	N/A		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

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



Channel List				
Channel Frequency (MHz) Channel Frequency (MHz)				
01	2405	09	2445	
02	2410	10	2450	
03	2415	11	2455	
04	2420	12	2460	
05	2425	13	2465	
06	2430	14	2470	
07	2435	15	2475	
08	2440	16	2480	

3.

# Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	T1R1UNV150P- 150L-XXX	Copper Antenna	N/A	0	Zigbee ANT



# 2.2 DESCRIPTION OF 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 CH1(2405MHz)	1 MHz/GFSK
Mode 2	TX CH08(2440MHz)	1 MHz/GFSK
Mode 3	TX CH16(2480MHz)	1 MHz/GFSK

Note:

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

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 60Hz and 277V, 60Hz) for which the device is capable of operation.

- (3) The EUT was programmed to be in continuously transmitting with a modulated carrier at maximum power on bottom/middle/top channels as required using the supported data rates/modulation types and the transmit duty cycle is not less than 98%.
- (4) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

Test Case	
AC Conducted	Made 4 - Kaaping BT TY
Emission	Mode 4 : Keeping BT TX

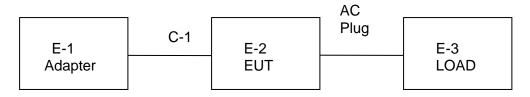


# 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





# 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Adapter	N/A	N/A	N/A	N/A
E-2	CONSTANT CURRENT DRIVER	N/A	T1R1UNV150P-150L-XXX	N/A	EUT
E-3	LOAD	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Cable shielded line (Charging )	NO	100cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <sup>r</sup> Length <sup>a</sup> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.05	2018.03.04
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.10.23	2017.10.22
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.05
Preamplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/9628 7	NCR	NCR
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22

**Conduction Test equipment** 

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR
Shielding Room	Changling	854	N/A	2016.10.23	2017.10.22

#### **RF** Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15100041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



#### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

	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.

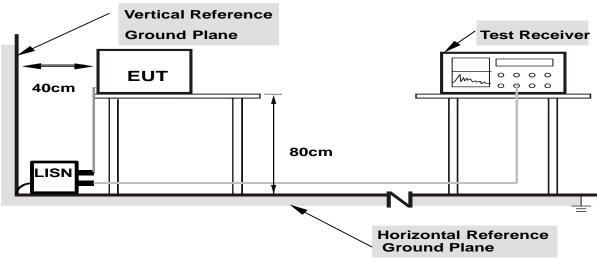
The following table is the setting of the receiver

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



# 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 from other units and other metal planes

#### 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.

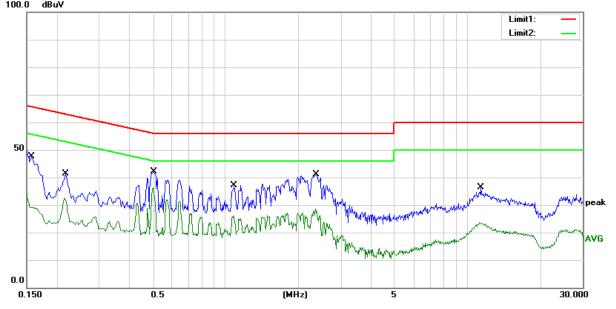
3.5 TEST RESULTS

Temperature:	<b>23.1</b> ℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1580	38.50	9.23	47.73	65.57	-17.84	QP
0.1580	19.66	9.23	28.89	55.57	-26.68	AVG
0.2180	32.20	9.21	41.41	62.89	-21.48	QP
0.2180	19.18	9.21	28.39	52.89	-24.50	AVG
0.5020	33.00	9.14	42.14	56.00	-13.86	QP
0.5020	26.41	9.14	35.55	46.00	-10.45	AVG
1.0860	27.93	9.16	37.09	56.00	-18.91	QP
1.0860	15.83	9.16	24.99	46.00	-21.01	AVG
2.3620	31.75	9.26	41.01	56.00	-14.99	QP
2.3620	17.01	9.26	26.27	46.00	-19.73	AVG
11.3900	26.83	9.48	36.31	60.00	-23.69	QP
11.3900	13.76	9.48	23.24	50.00	-26.76	AVG

#### Remark:

- All readings are Quasi-Peak and Average values.
  Margin = Result (Result = Reading + Factor )–Limit 100.0 dBuv



Temperature:	<b>23.1℃</b>	Relative Humidity:	60%
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Report No. STS1705242F01

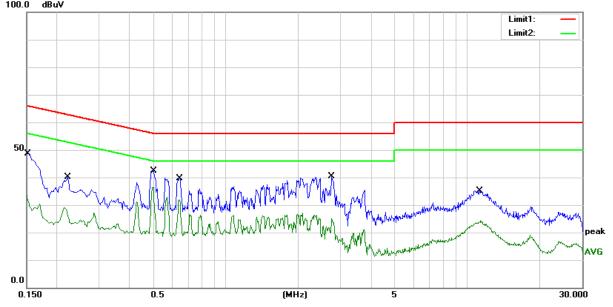
Issued Date: 2017-06-06



Pressure:	1010hPa Phase:			Ν		
Test Voltage: AC 120V/60Hz			Test Mo	de:	Mode 4	
		1	1	1	1	
Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1540	39.28	9.23	48.51	65.78	-17.27	QP
0.1540	18.93	9.23	28.16	55.78	-27.62	AVG
0.2220	30.82	9.21	40.03	62.74	-22.71	QP
0.2220	14.29	9.21	23.50	52.74	-29.24	AVG
0.5060	33.23	9.14	42.37	56.00	-13.63	QP
0.5060	17.94	9.14	27.08	46.00	-18.92	AVG
0.6460	30.53	9.21	39.74	56.00	-16.26	QP
0.6460	16.50	9.21	25.71	46.00	-20.29	AVG
2.7540	31.14	9.26	40.40	56.00	-15.60	QP
2.7540	13.76	9.26	23.02	46.00	-22.98	AVG
11.2660	25.74	9.48	35.22	60.00	-24.78	QP
11.2660	14.56	9.48	24.04	50.00	-25.96	AVG

#### Remark:

- All readings are Quasi-Peak and Average values.
  Margin = Result (Result =Reading + Factor )–Limit 100.0 dBuV





# 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)

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

Notes:

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

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

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

For Radiated Emission

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

For Band edge

Receiver Parameter	Setting
RB / VB (emission in restricted band)	1 MHz / 3 MHz
Start/Stop Frequency	Upper Band Edge: 2479 to 2500 MHz
	Lower Band Edge: 2300 to 2406 MHz
Detector	Peak
Spectrum Parameter	Setting
Spoctrum Paramotor	Sotting



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
Biant ~ Biop Thequency	

#### 4.2 TEST PROCEDURE

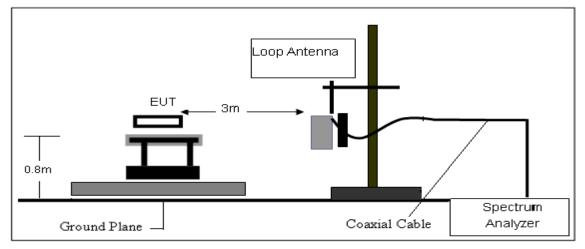
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine 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 polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

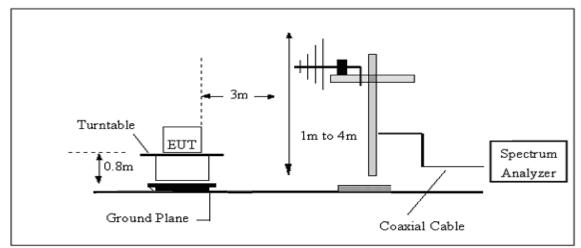


#### 4.3 TEST SETUP

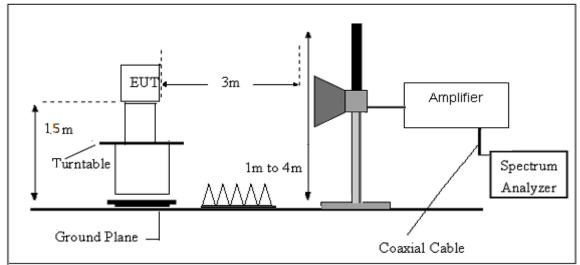
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



#### 4.4 EUT OPERATING CONDITIONS

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



#### 4.5 TEST RESULTS

#### (Between 9KHz – 30 MHz)

Temperature:	<b>26</b> ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX Mode	Polarization:	

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.



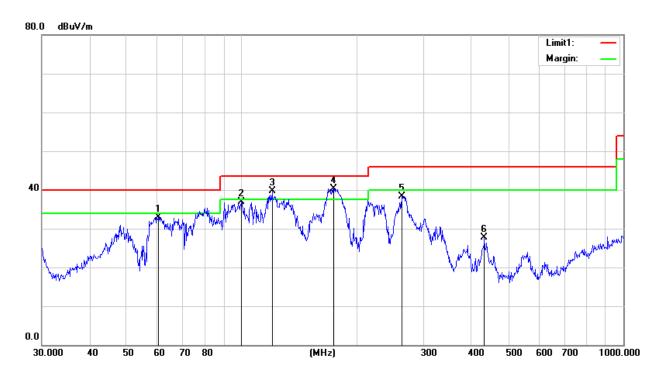
(30MHz -1000MHz)

Temperature:	<b>26</b> ℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	AC 120V/60Hz		Mode1/2/3 (Mode 3-1M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(MHz) (dBuV) Factor(dB/m		(dBuV/m)	(dBuV/m)	(dB)	
60.4920	57.26	-24.33	32.93	40.00	-7.07	QP
99.8777	56.15	-19.20	36.95	43.50	-6.55	QP
120.2766	57.39	-17.69	39.70	43.50	-3.80	QP
174.4241	59.74	-19.38	40.36	43.50	-3.14	QP
262.8955	53.53	-15.17	38.36	46.00	-7.64	QP
432.5457	38.64	-10.89	27.75	46.00	-18.25	QP

#### Remark:

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





Issued Date: 2017-06-06

Temperature:	<b>26</b> ℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz		Mode1/2/3 (Mode 3-1M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(MHz) (dBuV)		(dBuV/m)	(dBuV/m)	(dB)	
30.0000	46.55	-11.19	35.36	40.00	-4.64	QP
58.4074	60.79	-23.88	36.91	40.00	-3.09	QP
136.9390	55.87	-17.52	38.35	43.50	-5.15	QP
214.5141	57.79	-19.46	38.33	43.50	-5.17	QP
339.5887	45.09	-14.01	31.08	46.00	-14.92	QP
972.3374	31.30	-0.14	31.16	54.00	-22.84	QP

#### Remark:

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







# (1GHz-25GHz)Restricted band and Spurious emission Requirements

# **GFSK Low Channel**

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	( <b>dB</b> )	(dB)	(dB/m)	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Low Channel (2405 MHz)									
3264.87	48.74	44.70	6.70	28.20	-9.80	38.94	74.00	-35.06	PK	Vertical
3264.87	39.11	44.70	6.70	28.20	-9.80	29.31	54.00	-24.69	AV	Vertical
3264.62	49.06	44.70	6.70	28.20	-9.80	39.26	74.00	-34.74	PK	Horizontal
3264.62	38.48	44.70	6.70	28.20	-9.80	28.68	54.00	-25.32	AV	Horizontal
4804.51	59.38	44.20	9.04	31.60	-3.56	55.82	74.00	-18.18	PK	Vertical
4804.51	38.85	44.20	9.04	31.60	-3.56	35.29	54.00	-18.71	AV	Vertical
4804.41	59.60	44.20	9.04	31.60	-3.56	56.04	74.00	-17.96	PK	Horizontal
4804.41	38.77	44.20	9.04	31.60	-3.56	35.21	54.00	-18.79	AV	Horizontal
5359.59	45.64	44.20	9.86	32.00	-2.34	43.30	74.00	-30.70	PK	Vertical
5359.59	37.37	44.20	9.86	32.00	-2.34	35.03	54.00	-18.97	AV	Vertical
5359.61	45.33	44.20	9.86	32.00	-2.34	42.99	74.00	-31.01	PK	Horizontal
5359.61	38.26	44.20	9.86	32.00	-2.34	35.92	54.00	-18.08	AV	Horizontal
7205.77	51.69	43.50	11.40	35.50	3.40	55.09	74.00	-18.91	PK	Vertical
7205.77	33.09	43.50	11.40	35.50	3.40	36.49	54.00	-17.51	AV	Vertical
7205.90	51.87	43.50	11.40	35.50	3.40	55.27	74.00	-18.73	PK	Horizontal
7205.90	33.36	43.50	11.40	35.50	3.40	36.76	54.00	-17.24	AV	Horizontal
11035.74	39.81	43.60	14.30	39.50	10.20	50.01	74.00	-23.99	PK	Vertical
11035.74	30.89	43.60	14.30	39.50	10.20	41.09	54.00	-12.91	AV	Vertical
11036.02	39.78	43.60	14.30	39.50	10.20	49.98	74.00	-24.02	PK	Horizontal
11036.02	30.06	43.60	14.30	39.50	10.20	40.26	54.00	-13.74	AV	Horizontal
13299.13	40.21	42.60	15.90	38.90	12.20	52.41	74.00	-21.59	PK	Vertical
13299.13	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.36	40.25	42.60	15.90	38.90	12.20	52.45	74.00	-21.55	PK	Horizontal
13299.36	28.93	42.60	15.90	38.90	12.20	41.13	54.00	-12.87	AV	Horizontal
15999.75	39.86	42.70	18.00	37.10	12.40	52.26	74.00	-21.74	PK	Vertical
15999.75	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.70	40.55	42.70	18.00	37.10	12.40	52.95	74.00	-21.05	PK	Horizontal
15999.70	29.64	42.70	18.00	37.10	12.40	42.04	54.00	-11.96	AV	Horizontal
17997.66	30.86	42.70	19.40	46.50	23.20	54.06	74.00	-19.94	PK	Vertical
17997.66	18.84	42.70	19.40	46.50	23.20	42.04	54.00	-11.96	AV	Vertical
17997.69	31.10	42.70	19.40	46.50	23.20	54.30	74.00	-19.70	PK	Horizontal
17997.69	18.32	42.70	19.40	46.50	23.20	41.52	54.00	-12.48	AV	Horizontal



# Report No. STS1705242F01

Issued Date: 2017-06-06

# **GFSK Mid Channel**

Prequence      Reading      Amplifier      Loss      Factor      Factor      Carrented      Limits      Margin      Decision        (MH2)      (dB)      vidB      (dB)		GFSK MIU Channei									
(htt)(db)(					Antenna	Corrected					
Hit Channel (240 MHz)        3264.80      48.04      44.70      6.70      28.20      -9.80      38.24      74.00      -35.76      PK      Vertical        3264.80      38.97      44.70      6.70      28.20      -9.80      28.17      54.00      -24.83      AV      Vertical        3264.62      38.46      44.70      6.70      28.20      -9.80      28.24      54.00      24.76      AV      Hoizontal        480.42      58.48      44.20      9.04      31.60      -3.56      35.65      54.00      -19.28      AV      Vertical        480.45      58.27      44.20      9.04      31.60      -3.56      54.71      74.00      -19.29      AV      Morizontal        4880.45      58.27      44.20      9.04      31.60      -3.56      54.71      74.00      -19.29      AV      Morizontal        4880.45      58.27      44.20      9.68      32.00      -2.34      34.68      54.00      19.22      AV      Vertical        5359.81      45.14 <td>Frequency</td> <td>Reading</td> <td>Amplifier</td> <td>Loss</td> <td>Factor</td> <td>Factor</td> <td>Level</td> <td>Limits</td> <td>Margin</td> <td>Detector</td> <td></td>	Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
3264.80      48.04      44.70      6.70      28.20      -9.80      38.24      74.00      -35.76      PK      Vertical        3264.80      38.97      44.70      6.70      28.20      -9.80      28.17      54.00      24.83      AV      Vertical        3264.62      48.16      44.70      6.70      28.20      -9.80      38.36      74.00      -35.64      PK      Hoizontal        3264.62      30.04      44.70      6.70      28.20      -9.80      28.24      54.00      -24.76      AV      Hoizontal        4880.42      58.48      44.20      9.04      31.60      -3.56      54.92      74.00      -19.28      AV      Vertical        4880.45      58.27      44.20      9.04      31.60      -3.56      54.71      74.00      -19.29      PK      Hoizontal        4880.45      38.24      44.20      9.86      32.00      -2.34      34.66      74.00      -19.24      AV      Vertical        4880.45      51.78      43.50      11.40      35.50 <td>(MHz)</td> <td>(dBµV)</td> <td>(dB)</td> <td>(dB)</td> <td>(<b>dB/m</b>)</td> <td>(<b>dB</b>)</td> <td>(dBµV/m)</td> <td>(dBµV/m)</td> <td>(dB)</td> <td>Туре</td> <td>Comment</td>	(MHz)	(dBµV)	(dB)	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
3264.60      38.97      44.70      6.70      28.20      -9.80      29.17      54.00      -24.83      AV      Vertical        3264.62      48.16      44.70      6.70      28.20      -9.80      38.36      74.00      -35.44      PK      Horizontal        3264.62      39.04      44.70      6.70      28.20      -9.80      29.24      54.00      -24.76      AV      Horizontal        4880.42      38.61      44.20      9.04      31.60      -3.56      54.92      74.00      19.28      PK      Horizontal        4880.45      58.27      44.20      9.04      31.60      -3.56      54.71      74.00      19.22      AV      Horizontal        5359.88      37.0      44.20      9.66      32.00      -2.34      43.66      74.00      39.24      AV      Horizontal        5359.71      45.14      44.20      9.66      32.00      -2.344      35.76      54.00      17.42      AV      Horizontal        5359.71      38.12      44.20      9.66      32.0		1			Mid	Channel (2440 N	/Hz)	1	1	1	
3264.62      48.16      44.70      6.70      28.20      9.80      38.36      74.00      -35.64      PK      Horizontal        3264.62      39.04      44.70      6.70      28.20      9.80      29.24      54.00      -24.76      AV      Horizontal        4880.42      58.48      44.20      9.04      31.60      -3.56      54.92      74.00      19.85      AV      Vertical        4880.42      38.61      44.20      9.04      31.60      -3.56      54.71      74.00      19.29      PK      Horizontal        4880.45      38.24      44.20      9.04      31.60      -3.56      54.71      74.00      19.29      PK      Horizontal        5359.88      37.10      44.20      9.86      32.00      -2.34      34.76      54.00      19.24      AV      Vertical        5359.71      38.12      44.20      9.86      32.00      -2.34      35.76      54.00      18.22      AV      Horizontal        5359.71      38.12      44.20      9.86      32.00 <td>3264.80</td> <td>48.04</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>38.24</td> <td>74.00</td> <td>-35.76</td> <td>PK</td> <td>Vertical</td>	3264.80	48.04	44.70	6.70	28.20	-9.80	38.24	74.00	-35.76	PK	Vertical
3264.62      39.04      44.70      6.70      28.20      -9.80      29.24      54.00      -24.76      AV      Horizontal        4880.42      58.48      44.20      9.04      31.60      -3.56      54.92      74.00      -19.08      PK      Vertical        4880.42      38.61      44.20      9.04      31.60      -3.56      54.02      74.00      -19.28      AV      Vertical        4880.45      58.27      44.20      9.04      31.60      -3.56      34.68      54.00      -19.28      AV      Horizontal        5359.88      38.24      44.20      9.86      32.00      -2.34      43.06      74.00      -31.20      AV      Vertical        5359.87      38.12      44.20      9.86      32.00      -2.34      42.80      74.00      -18.22      AV      Horizontal        5359.71      38.12      44.20      9.86      32.00      -2.344      42.80      74.00      -18.22      AV      Horizontal        7310.86      51.78      43.50      11.40      35	3264.80	38.97	44.70	6.70	28.20	-9.80	29.17	54.00	-24.83	AV	Vertical
4880.42      58.48      44.20      9.04      31.60     3.56      54.92      74.00      19.08      PK      Vertical        4880.42      38.61      44.20      9.04      31.60     3.56      35.05      54.00      .18.95      AV      Vertical        4880.45      58.27      44.20      9.04      31.60     3.56      34.68      54.00      .19.22      PK      Horizontal        539.88      45.40      44.20      9.68      32.00      .2.34      43.06      74.00      .31.2      AV      Vertical        539.81      37.10      44.20      9.86      32.00      .2.34      42.80      74.00      .18.2      AV      Vertical        539.71      45.14      44.20      9.86      32.00      .2.34      42.80      74.00      .18.2      AV      Horizontal        731.96      51.78      43.50      11.40      35.50      3.40      36.51      54.00      .17.42      AV      Vertical        731.067      51.18      43.50      11.40      35.50 <td>3264.62</td> <td>48.16</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>38.36</td> <td>74.00</td> <td>-35.64</td> <td>PK</td> <td>Horizontal</td>	3264.62	48.16	44.70	6.70	28.20	-9.80	38.36	74.00	-35.64	PK	Horizontal
4880.42      38.61      44.20      9.04      31.60      -3.56      55.00      -18.95      AV      Vertical        4880.45      58.27      44.20      9.04      31.60      -3.56      54.71      74.00      -19.29      PK      Horizontal        4880.45      38.24      44.20      9.04      31.60      -3.56      34.68      54.00      -19.29      PK      Horizontal        539.88      45.40      44.20      9.66      32.00      -2.34      43.06      74.00      -9.24      AV      Vertical        539.81      45.14      44.20      9.86      32.00      -2.34      35.78      54.00      -18.22      AV      Vertical        539.71      88.12      44.20      9.86      32.00      -2.34      35.78      54.00      -18.22      AV      Vertical        7310.67      38.12      43.50      11.40      35.50      3.40      56.18      74.00      -18.22      AV      Vertical        7310.67      51.18      43.50      11.40      35.50      3.40	3264.62	39.04	44.70	6.70	28.20	-9.80	29.24	54.00	-24.76	AV	Horizontal
480.45      58.27      44.20      9.04      31.60      -3.56      54.71      74.00      -19.29      PK      Horizontal        480.45      38.24      44.20      9.04      31.60      -3.56      34.68      54.00      -19.22      AV      Horizontal        5359.88      45.40      44.20      9.86      32.00      -2.34      43.06      74.00      -3.94      PK      Vertical        5359.81      37.10      44.20      9.86      32.00      -2.34      42.80      74.00      -19.24      AV      Vertical        5359.71      38.12      44.20      9.86      32.00      -2.34      35.76      54.00      -18.22      AV      Horizontal        7310.96      51.78      43.50      11.40      35.50      3.40      36.51      54.00      -17.49      AV      Vertical        7310.96      51.78      43.50      11.40      35.50      3.40      36.51      54.00      -17.49      AV      Vertical        7310.67      51.18      43.50      11.40      35.50 <td>4880.42</td> <td>58.48</td> <td>44.20</td> <td>9.04</td> <td>31.60</td> <td>-3.56</td> <td>54.92</td> <td>74.00</td> <td>-19.08</td> <td>PK</td> <td>Vertical</td>	4880.42	58.48	44.20	9.04	31.60	-3.56	54.92	74.00	-19.08	PK	Vertical
480.45      38.24      44.20      9.04      31.60      .3.56      34.68      54.00      .19.32      AV      Horizontal        5359.88      45.40      44.20      9.86      32.00      .2.34      43.06      74.00      .30.94      PK      Vertical        5359.71      45.14      44.20      9.86      32.00      .2.34      42.80      74.00      .31.20      PK      Horizontal        5359.71      38.12      44.20      9.86      32.00      .2.34      42.80      74.00      .31.20      PK      Horizontal        7310.96      51.78      43.50      11.40      35.50      3.40      55.18      74.00      .18.22      AV      Vertical        7310.96      33.11      43.50      11.40      35.50      3.40      54.58      74.00      .19.42      PK      Horizontal        7310.67      51.18      43.50      11.40      35.50      3.40      36.58      54.00      .17.2      AV      Horizontal        7310.67      51.18      43.50      14.30      39.	4880.42	38.61	44.20	9.04	31.60	-3.56	35.05	54.00	-18.95	AV	Vertical
5359.88      45.40      44.20      9.86      32.00      -2.34      43.06      74.00      -30.94      PK      Vertical        5359.88      37.10      44.20      9.86      32.00      -2.34      34.76      54.00      -19.24      AV      Vertical        5359.71      45.14      44.20      9.86      32.00      -2.34      42.80      74.00      -31.20      PK      Horizontal        5359.71      38.12      44.20      9.86      32.00      -2.34      35.78      54.00      -18.22      AV      Horizontal        7310.96      51.78      43.50      11.40      35.50      3.40      55.18      74.00      -18.22      PK      Vertical        7310.67      51.18      43.50      11.40      35.50      3.40      56.50      74.00      -17.2      AV      Horizontal        7310.67      51.18      43.60      14.30      39.50      10.20      50.50      74.00      -23.50      PK      Horizontal        9607.96      31.21      43.60      14.30      39.	4880.45	58.27	44.20	9.04	31.60	-3.56	54.71	74.00	-19.29	PK	Horizontal
5359.88      37.10      44.20      9.86      32.00      -2.34      34.76      54.00      -19.24      AV      Vertical        5359.71      45.14      44.20      9.86      32.00      -2.34      42.80      74.00      -31.20      PK      Horizontal        5359.71      38.12      44.20      9.86      32.00      -2.34      35.78      54.00      -18.22      AV      Horizontal        7310.96      51.78      43.50      11.40      35.50      3.40      55.18      74.00      -18.22      AV      Vertical        7310.96      51.78      43.50      11.40      35.50      3.40      54.58      74.00      -19.42      PK      Horizontal        7310.67      51.18      43.50      11.40      35.50      3.40      36.81      54.00      -17.02      AV      Horizontal        7310.67      33.58      43.50      14.30      39.50      10.20      50.50      74.00      -21.59      AV      Vertical        9607.96      31.21      43.60      14.30      39	4880.45	38.24	44.20	9.04	31.60	-3.56	34.68	54.00	-19.32	AV	Horizontal
5359.71      45.14      44.20      9.86      32.00      -2.34      42.80      74.00      -31.20      PK      Horizontal        5359.71      38.12      44.20      9.86      32.00      -2.34      35.78      54.00      -18.22      AV      Horizontal        7310.96      51.78      43.50      11.40      35.50      3.40      55.18      74.00      -18.22      AV      Horizontal        7310.96      33.11      43.50      11.40      35.50      3.40      56.18      74.00      -18.22      AV      Vertical        7310.67      51.18      43.50      11.40      35.50      3.40      54.58      74.00      -19.42      PK      Horizontal        7310.67      33.81      43.50      11.40      35.50      3.40      56.50      74.00      -23.50      PK      Horizontal        9607.96      31.21      43.60      14.30      39.50      10.20      50.01      74.00      -21.91      AV      Horizontal        9608.17      39.81      43.60      14.30 <t< td=""><td>5359.88</td><td>45.40</td><td>44.20</td><td>9.86</td><td>32.00</td><td>-2.34</td><td>43.06</td><td>74.00</td><td>-30.94</td><td>РК</td><td>Vertical</td></t<>	5359.88	45.40	44.20	9.86	32.00	-2.34	43.06	74.00	-30.94	РК	Vertical
5359.71      38.12      44.20      9.86      32.00      -2.34      35.78      54.00      18.22      AV      Horizontal        7310.96      51.78      43.50      11.40      35.50      3.40      55.18      74.00      18.82      PK      Vertical        7310.96      33.11      43.50      11.40      35.50      3.40      36.51      54.00      17.49      AV      Vertical        7310.67      51.18      43.50      11.40      35.50      3.40      56.58      74.00      19.42      PK      Horizontal        7310.67      51.8      43.50      11.40      35.50      3.40      36.98      54.00      17.02      AV      Horizontal        7310.67      33.58      43.50      14.30      39.50      10.20      50.50      74.00      -23.99      PK      Horizontal        9607.96      31.21      43.60      14.30      39.50      10.20      50.01      74.00      -21.9      AV      Vertical        9608.17      39.81      43.60      14.30      38.50 <td>5359.88</td> <td>37.10</td> <td>44.20</td> <td>9.86</td> <td>32.00</td> <td>-2.34</td> <td>34.76</td> <td>54.00</td> <td>-19.24</td> <td>AV</td> <td>Vertical</td>	5359.88	37.10	44.20	9.86	32.00	-2.34	34.76	54.00	-19.24	AV	Vertical
7310.96      51.78      43.50      11.40      35.50      3.40      55.18      74.00      -18.82      PK      Vertical        7310.96      33.11      43.50      11.40      35.50      3.40      36.51      54.00      -17.49      AV      Vertical        7310.96      51.18      43.50      11.40      35.50      3.40      54.58      74.00      -19.42      PK      Horizontal        7310.67      33.58      43.50      11.40      35.50      3.40      36.98      54.00      -17.02      AV      Horizontal        7310.67      33.58      43.50      14.30      39.50      10.20      50.50      74.00      -23.50      PK      Vertical        9607.96      31.21      43.60      14.30      39.50      10.20      50.01      74.00      -21.9      AV      Vertical        9608.17      39.81      43.60      14.30      39.50      10.20      51.01      74.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.9	5359.71	45.14	44.20	9.86	32.00	-2.34	42.80	74.00	-31.20	PK	Horizontal
7310.96      33.11      43.50      11.40      35.50      3.40      36.51      54.00      -17.49      AV      Vertical        7310.67      51.18      43.50      11.40      35.50      3.40      54.58      74.00      19.42      PK      Horizontal        7310.67      33.58      43.50      11.40      35.50      3.40      36.98      54.00      17.02      AV      Horizontal        9607.96      40.30      43.60      14.30      39.50      10.20      50.50      74.00      -23.50      PK      Vertical        9607.96      31.21      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      39.81      43.60      14.30      39.50      10.20      41.09      54.00      12.91      AV      Horizontal        13299.26      39.86      42.60      15.90      38.90      12.20      52.16      74.00      -21.84      PK      Horizontal        13299.41      39.67      42.60      15.90 <t< td=""><td>5359.71</td><td>38.12</td><td>44.20</td><td>9.86</td><td>32.00</td><td>-2.34</td><td>35.78</td><td>54.00</td><td>-18.22</td><td>AV</td><td>Horizontal</td></t<>	5359.71	38.12	44.20	9.86	32.00	-2.34	35.78	54.00	-18.22	AV	Horizontal
7310.67      51.18      43.50      11.40      35.50      3.40      54.58      74.00      -19.42      PK      Horizontal        7310.67      33.58      43.50      11.40      35.50      3.40      36.98      54.00      -17.02      AV      Horizontal        9607.96      40.30      43.60      14.30      39.50      10.20      50.50      74.00      -23.50      PK      Vertical        9607.96      31.21      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -21.91      AV      Horizontal        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -21.84      PK      Horizontal        13299.26      39.96      42.60      15.90      38.90      12.20      40.74      54.00      -13.26      AV      Vertical        13299.41      39.67      42.60      15.90	7310.96	51.78	43.50	11.40	35.50	3.40	55.18	74.00	-18.82	PK	Vertical
7310.67      33.58      43.50      11.40      35.50      3.40      36.98      54.00      -17.02      AV      Horizontal        9607.96      40.30      43.60      14.30      39.50      10.20      50.50      74.00      -23.50      PK      Vertical        9607.96      31.21      43.60      14.30      39.50      10.20      41.41      54.00      -12.59      AV      Vertical        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -21.91      AV      Horizontal        13299.26      39.96      42.60      15.90      38.90      12.20      51.67      74.00      -21.84      PK      Vertical        13299.41      39.67      42.60      15.90      38.90      12.20      51.87      74.00      -21.38      AV      Horizontal        13299.41      39.67      42.60      15.90	7310.96	33.11	43.50	11.40	35.50	3.40	36.51	54.00	-17.49	AV	Vertical
9607.96      40.30      43.60      14.30      39.50      10.20      50.50      74.00      -23.50      PK      Vertical        9607.96      31.21      43.60      14.30      39.50      10.20      41.41      54.00      -12.59      AV      Vertical        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      30.89      43.60      14.30      39.50      10.20      50.01      74.00      -21.81      PK      Horizontal        13299.26      39.96      42.60      15.90      38.90      12.20      40.74      54.00      -13.26      AV      Vertical        13299.41      39.67      42.60      15.90      38.90      12.20      51.87      74.00      -22.13      PK      Horizontal        13299.41      29.42      42.60      15.90	7310.67	51.18	43.50	11.40	35.50	3.40	54.58	74.00	-19.42	PK	Horizontal
9607.96      31.21      43.60      14.30      39.50      10.20      41.41      54.00      -12.59      AV      Vertical        9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      30.89      43.60      14.30      39.50      10.20      41.09      54.00      -12.91      AV      Horizontal        13299.26      39.96      42.60      15.90      38.90      12.20      52.16      74.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      40.74      54.00      -13.26      AV      Vertical        13299.41      39.67      42.60      15.90      38.90      12.20      51.87      74.00      -22.13      PK      Horizontal        13299.41      29.42      42.60      15.90      38.90      12.20      41.62      54.00      -12.38      AV      Horizontal        13299.41      29.42      42.60      15.90	7310.67	33.58	43.50	11.40	35.50	3.40	36.98	54.00	-17.02	AV	Horizontal
9608.17      39.81      43.60      14.30      39.50      10.20      50.01      74.00      -23.99      PK      Horizontal        9608.17      30.89      43.60      14.30      39.50      10.20      41.09      54.00      -23.99      PK      Horizontal        13299.26      39.96      42.60      15.90      38.90      12.20      52.16      74.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      52.16      74.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      51.87      74.00      -21.38      AV      Horizontal        13299.41      39.67      42.60      15.90      38.90      12.20      51.87      74.00      -21.38      AV      Horizontal        13299.41      29.42      42.60      15.90      38.90      12.20      41.62      54.00      -12.38      AV      Horizontal        15999.95      39.84      42.70      18.00	9607.96	40.30	43.60	14.30	39.50	10.20	50.50	74.00	-23.50	PK	Vertical
9608.17      30.89      43.60      14.30      39.50      10.20      41.09      54.00      -12.91      AV      Horizontal        13299.26      39.96      42.60      15.90      38.90      12.20      52.16      74.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      40.74      54.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      40.74      54.00      -21.84      PK      Vertical        13299.41      39.67      42.60      15.90      38.90      12.20      41.62      54.00      -22.13      PK      Horizontal        13299.41      29.42      42.60      15.90      38.90      12.20      41.62      54.00      -12.38      AV      Horizontal        1599.95      39.84      42.70      18.00      37.10      12.40      51.01      -21.76      PK      Vertical        15999.69      30.09      42.70      18.00      37.10	9607.96	31.21	43.60	14.30	39.50	10.20	41.41	54.00	-12.59	AV	Vertical
13299.26      39.96      42.60      15.90      38.90      12.20      52.16      74.00      -21.84      PK      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      40.74      54.00      -13.26      AV      Vertical        13299.26      28.54      42.60      15.90      38.90      12.20      40.74      54.00      -13.26      AV      Vertical        13299.41      39.67      42.60      15.90      38.90      12.20      51.87      74.00      -22.13      PK      Horizontal        13299.41      29.42      42.60      15.90      38.90      12.20      41.62      54.00      -12.38      AV      Horizontal        1599.95      39.84      42.70      18.00      37.10      12.40      51.07      74.00      -21.68      AV      Vertical        1599.95      28.64      42.70      18.00      37.10      12.40      51.07      74.00      -20.83      PK      Horizontal        1599.69      30.09      42.70      18.00	9608.17	39.81	43.60	14.30	39.50	10.20	50.01	74.00	-23.99	PK	Horizontal
13299.26    28.54    42.60    15.90    38.90    12.20    40.74    54.00    -13.26    AV    Vertical      13299.41    39.67    42.60    15.90    38.90    12.20    51.87    74.00    -22.13    PK    Horizontal      13299.41    29.42    42.60    15.90    38.90    12.20    41.62    54.00    -12.38    AV    Horizontal      1599.95    39.84    42.70    18.00    37.10    12.40    52.24    74.00    -21.76    PK    Vertical      1599.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      1599.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      1599.69    40.77    42.70    18.00    37.10    12.40    53.17    74.00    -20.83    PK    Horizontal      1599.69    30.09    42.70    18.00    37.10    12.40    42.49    54.00    -11.51    AV    Vertical	9608.17	30.89	43.60	14.30	39.50	10.20	41.09	54.00	-12.91	AV	Horizontal
13299.41    39.67    42.60    15.90    38.90    12.20    51.87    74.00    -22.13    PK    Horizontal      13299.41    29.42    42.60    15.90    38.90    12.20    41.62    54.00    -12.38    AV    Horizontal      15999.95    39.84    42.70    18.00    37.10    12.40    52.24    74.00    -21.76    PK    Vertical      15999.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      15999.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      15999.69    40.77    42.70    18.00    37.10    12.40    53.17    74.00    -20.83    PK    Horizontal      15999.69    30.09    42.70    18.00    37.10    12.40    42.49    54.00    -11.51    AV    Horizontal      17997.89    30.99    42.70    19.40    46.50    23.20    54.19    74.00    -19.81    PK    Vertical	13299.26	39.96	42.60	15.90	38.90	12.20	52.16	74.00	-21.84	PK	Vertical
13299.41    29.42    42.60    15.90    38.90    12.20    41.62    54.00    -12.38    AV    Horizontal      15999.95    39.84    42.70    18.00    37.10    12.40    52.24    74.00    -21.76    PK    Vertical      15999.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      15999.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      15999.69    40.77    42.70    18.00    37.10    12.40    53.17    74.00    -20.83    PK    Horizontal      15999.69    30.09    42.70    18.00    37.10    12.40    42.49    54.00    -11.51    AV    Horizontal      17997.89    30.99    42.70    18.00    37.10    12.40    42.49    54.00    -11.51    AV    Horizontal      17997.89    30.99    42.70    19.40    46.50    23.20    54.19    74.00    -10.98    AV    Vertical	13299.26	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
15999.95    39.84    42.70    18.00    37.10    12.40    52.24    74.00    -21.76    PK    Vertical      15999.95    28.64    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      15999.69    40.77    42.70    18.00    37.10    12.40    41.04    54.00    -12.96    AV    Vertical      15999.69    40.77    42.70    18.00    37.10    12.40    53.17    74.00    -20.83    PK    Horizontal      15999.69    30.09    42.70    18.00    37.10    12.40    42.49    54.00    -11.51    AV    Horizontal      17997.89    30.99    42.70    19.40    46.50    23.20    54.19    74.00    -19.81    PK    Vertical      17997.89    19.82    42.70    19.40    46.50    23.20    43.02    54.00    -10.98    AV    Vertical      17997.62    30.34    42.70    19.40    46.50    23.20    53.54    74.00    -20.46    PK    Horizontal </td <td>13299.41</td> <td>39.67</td> <td>42.60</td> <td>15.90</td> <td>38.90</td> <td>12.20</td> <td>51.87</td> <td>74.00</td> <td>-22.13</td> <td>PK</td> <td>Horizontal</td>	13299.41	39.67	42.60	15.90	38.90	12.20	51.87	74.00	-22.13	PK	Horizontal
15999.95      28.64      42.70      18.00      37.10      12.40      41.04      54.00      -12.96      AV      Vertical        15999.69      40.77      42.70      18.00      37.10      12.40      53.17      74.00      -20.83      PK      Horizontal        15999.69      40.77      42.70      18.00      37.10      12.40      53.17      74.00      -20.83      PK      Horizontal        15999.69      30.09      42.70      18.00      37.10      12.40      42.49      54.00      -11.51      AV      Horizontal        17997.89      30.99      42.70      19.40      46.50      23.20      54.19      74.00      -19.81      PK      Vertical        17997.89      19.82      42.70      19.40      46.50      23.20      43.02      54.00      -10.98      AV      Vertical        17997.62      30.34      42.70      19.40      46.50      23.20      53.54      74.00      -20.46      PK      Horizontal	13299.41	29.42	42.60	15.90	38.90	12.20	41.62	54.00	-12.38	AV	Horizontal
15999.69      40.77      42.70      18.00      37.10      12.40      53.17      74.00      -20.83      PK      Horizontal        15999.69      30.09      42.70      18.00      37.10      12.40      42.49      54.00      -11.51      AV      Horizontal        17997.89      30.99      42.70      19.40      46.50      23.20      54.19      74.00      -19.81      PK      Vertical        17997.89      19.82      42.70      19.40      46.50      23.20      43.02      54.00      -10.98      AV      Vertical        17997.62      30.34      42.70      19.40      46.50      23.20      53.54      74.00      -20.46      PK      Horizontal	15999.95	39.84	42.70	18.00	37.10	12.40	52.24	74.00	-21.76	PK	Vertical
15999.69    30.09    42.70    18.00    37.10    12.40    42.49    54.00    -11.51    AV    Horizontal      17997.89    30.99    42.70    19.40    46.50    23.20    54.19    74.00    -19.81    PK    Vertical      17997.89    19.82    42.70    19.40    46.50    23.20    43.02    54.00    -10.98    AV    Vertical      17997.62    30.34    42.70    19.40    46.50    23.20    53.54    74.00    -20.46    PK    Horizontal	15999.95	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
17997.89    30.99    42.70    19.40    46.50    23.20    54.19    74.00    -19.81    PK    Vertical      17997.89    19.82    42.70    19.40    46.50    23.20    43.02    54.00    -10.98    AV    Vertical      17997.62    30.34    42.70    19.40    46.50    23.20    53.54    74.00    -20.46    PK    Horizontal	15999.69	40.77	42.70	18.00	37.10	12.40	53.17	74.00	-20.83	PK	Horizontal
17997.89      19.82      42.70      19.40      46.50      23.20      43.02      54.00      -10.98      AV      Vertical        17997.62      30.34      42.70      19.40      46.50      23.20      53.54      74.00      -20.46      PK      Horizontal	15999.69	30.09	42.70	18.00	37.10	12.40	42.49	54.00	-11.51	AV	Horizontal
17997.62      30.34      42.70      19.40      46.50      23.20      53.54      74.00      -20.46      PK      Horizontal	17997.89	30.99	42.70	19.40	46.50	23.20	54.19	74.00	-19.81	PK	Vertical
	17997.89	19.82	42.70	19.40	46.50	23.20	43.02	54.00	-10.98	AV	Vertical
	17997.62	30.34	42.70	19.40	46.50	23.20	53.54	74.00	-20.46	PK	Horizontal
1/99/.62   19.17   42.70   19.40   46.50   23.20   42.37   54.00   -11.63   AV   Horizontal	17997.62	19.17	42.70	19.40	46.50	23.20	42.37	54.00	-11.63	AV	Horizontal



#### Report No. STS1705242F01

Issued Date: 2017-06-06

# **GFSK High Channel**

	GFSK High Charmer									
				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	( <b>dB</b> )	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
High Channel (2480 MHz)										
3264.70	48.14	44.70	6.70	28.20	-9.80	38.34	74.00	-35.66	РК	Vertical
3264.70	39.64	44.70	6.70	28.20	-9.80	29.84	54.00	-24.16	AV	Vertical
3264.57	48.67	44.70	6.70	28.20	-9.80	38.87	74.00	-35.13	PK	Horizontal
3264.57	39.15	44.70	6.70	28.20	-9.80	29.35	54.00	-24.65	AV	Horizontal
4960.51	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Vertical
4960.51	39.30	44.20	9.04	31.60	-3.56	35.74	54.00	-18.26	AV	Vertical
4960.55	58.55	44.20	9.04	31.60	-3.56	54.99	74.00	-19.01	PK	Horizontal
4960.55	38.74	44.20	9.04	31.60	-3.56	35.18	54.00	-18.82	AV	Horizontal
5359.63	45.93	44.20	9.86	32.00	-2.34	43.59	74.00	-30.41	PK	Vertical
5359.63	37.29	44.20	9.86	32.00	-2.34	34.95	54.00	-19.05	AV	Vertical
5359.57	45.13	44.20	9.86	32.00	-2.34	42.79	74.00	-31.21	PK	Horizontal
5359.57	37.43	44.20	9.86	32.00	-2.34	35.09	54.00	-18.91	AV	Horizontal
7439.86	51.14	43.50	11.40	35.50	3.40	54.54	74.00	-19.46	PK	Vertical
7439.86	33.53	43.50	11.40	35.50	3.40	36.93	54.00	-17.07	AV	Vertical
7439.94	51.68	43.50	11.40	35.50	3.40	55.08	74.00	-18.92	PK	Horizontal
7439.94	33.95	43.50	11.40	35.50	3.40	37.35	54.00	-16.65	AV	Horizontal
9919.78	40.86	43.60	14.30	39.50	10.20	51.06	74.00	-22.94	PK	Vertical
9919.78	29.94	43.60	14.30	39.50	10.20	40.14	54.00	-13.86	AV	Vertical
9920.22	39.79	43.60	14.30	39.50	10.20	49.99	74.00	-24.01	PK	Horizontal
9920.22	30.16	43.60	14.30	39.50	10.20	40.36	54.00	-13.64	AV	Horizontal
13299.23	39.63	42.70	18.00	37.10	12.40	52.03	74.00	-21.97	PK	Vertical
13299.23	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical
13299.47	40.63	42.70	18.00	37.10	12.40	53.03	74.00	-20.97	PK	Horizontal
13299.47	29.88	42.70	18.00	37.10	12.40	42.28	54.00	-11.72	AV	Horizontal
17997.86	30.64	42.70	19.40	46.50	23.20	53.84	74.00	-20.16	PK	Vertical
17997.86	19.80	42.70	19.40	46.50	23.20	43.00	54.00	-11.00	AV	Vertical
17997.52	31.14	42.70	19.40	46.50	23.20	54.34	74.00	-19.66	PK	Horizontal
17997.52	17.80	42.70	19.40	46.50	23.20	41.00	54.00	-13.00	AV	Horizontal
				C	1					

Note:

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

Emission Level = Reading + Factor



# 4.6 TEST RESULTS (Restricted Bands Requirements)

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	( <b>dB</b> )	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
GFSK										
2390.00	67.70	43.80	4.91	25.90	-12.99	54.71	74	-19.29	PK	Vertical
2390.00	54.28	43.80	4.91	25.90	-12.99	41.29	54	-12.71	AV	Vertical
2390.00	69.34	43.80	4.91	25.90	-12.99	56.35	74	-17.65	PK	Horizontal
2390.00	53.32	43.80	4.91	25.90	-12.99	40.33	54	-13.67	AV	Horizontal
2483.50	69.57	43.80	5.12	25.90	-12.78	56.79	74	-17.21	PK	Vertical
2483.50	52.90	43.80	5.12	25.90	-12.78	40.12	54	-13.88	AV	Vertical
2483.50	69.40	43.80	5.12	25.90	-12.78	56.62	74	-17.38	PK	Horizontal
2483.50	52.89	43.80	5.12	25.90	-12.78	40.11	54	-13.89	AV	Horizontal
Low me	asurement	frequencies	is range fr	om 2300 to 240	06 MHz, high me	asurement free	uencies is ra	inge from	2479 to 250	0 MHz.

Only show the worst point data of the emissions in the frequency 2300-2406 MHz and 2479-2500 MHz.



# 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 5.1 REQUIREMENT

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.

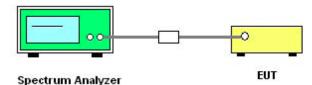
#### 5.2 TEST PROCEDURE

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 – 2406 MHz		
Start/Stop Frequency	Upper Band Edge: 2479 – 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 coupled 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

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



5.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	50%
Pressure:	1012 hPa	Test Voltage:	DC 120V
Test Mode:	TX Mode /CH01, CH08, CH16		

# 01 CH

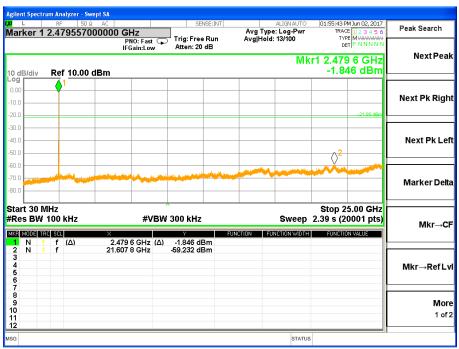
	M Jun 02, 2017	01:51:04 P	ALIGN AUTO		SENSE:INT			io Ω AC	RF 5	L
Peak Search	E 1 2 3 4 5 6 E MWWWWW T P N N N N N	TRAC	: Log-Pwr 17/100	Avg Typ Avg Hold	Free Run n: 20 dB		GHz PNO: Fast IFGain:Low	7000000		ker 1
NextPe	l 6 GHz 45 dBm		Mk					0 dBm	Ref 10.0	B/div
									<b>1</b>	
Next Pk Rig									Ĭ	
	-23.25 dBm									
Next Pk L										
		02								
		$\sim$							_	
		~~~~~		and the state of the	وياليناهم فيندن	and the second			and the second second	
MarkerDe										
Mkr→	5.00 GHz 0001 pts)		Sweep		kHz	BW 300 k	#VI		Hz 00 kHz	t 30 M sBW
	IN VALUE	FUNCTIO	NCTION WIDTH	NCTION FI	45 dBm		104 6 GHz		f (Δ)	NODE TR
Mkr→Ref					24 dBm	-59.224	571 6 GHz	21.5	f	N 1
M										
1 0										

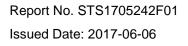


#### 08 CH

									m Analyzer - Sv	t Spectru	ent
Peak Search	M Jun 02, 2017 E 1 2 3 4 5 6 E M M M M	TRAC	ALIGN AUTO : Log-Pwr 30/100	Avg Type Avg Hold	Run	SE Trig: Free	HZ	000000 G	RF 50 s 2.4396050	ker 1 :	۱. ۲
NextPe	6 GHz 3 dBm	r1 2.439	Mk		dB	Atten: 20	Gain:Low	IFO	Ref 10.00	3/div	
Next Pk Rig									1		
Next Pk L	-23.31 dBm										
		2 2 2	-								0 -
Marker De	5.00 GHz	Stop 2							H7	t 30 M	
Mkr→	0001 pts)		Sweep CTION WOTH	ICTION FU		300 kHz -3,313 d	#VBW	× 2.439	00 kHz		es M
Mkr→Refl						-58.787 di		21.572	f	N 1	
<b>M</b> c 1 c											
			STATUS								

16 CH



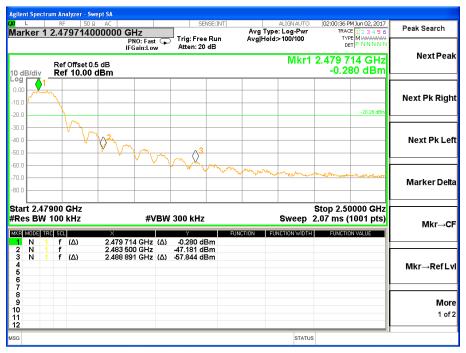




#### 01 CH

	rum Analyzer - Sv RF 50 s			051055.71	7			
۔ arker 1	2.4047280			SENSE:IN	Avg Typ	ALIGN AUTO e: Log-Pwr	02:05:34 PM Jun 02, 2017 TRACE 1 2 3 4 5 6 TYPE MWAAAAAA	Peak Search
) dB/div	Ref Offset 0 Ref 10.00	IFG	IO: Fast 🖵 ain:Low	┘ Trig: Free Run Atten: 20 dB	Avg Hold	i≫1007100 <mark>Mkr1</mark>	2.404 728 GHz -1.531 dBm	News
9 00 1.0								Next Pk Rig
.0							3	Next Pk Le
.0 .0 .0		der politica and a fill of a first	sil-adde-addes			h	2 Min	Marker De
es BW	0000 GHz 100 kHz	×		300 kHz	FUNCTION FU	Sweep	Stop 2.40600 GHz 10.1 ms (1001 pts) FUNCTION WALUE	
N N N	f (Δ) f f (Δ)	2.390 000	3 GHz (Δ) ) GHz ) GHz (Δ)	-1.531 dBm -67.615 dBm -45.671 dBm				Mkr→RefL
k 5 7 8 9 9								<b>M</b> o 1 o
3						STATU	s	

#### 16 CH





# 6. POWER SPECTRAL DENSITY TEST

#### 6.1 APPLIED PROCEDURES / 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

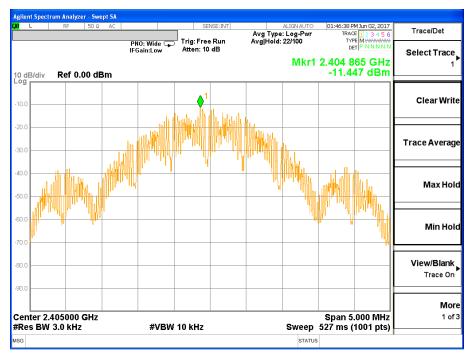
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 120V
Test Mode:	TX Mode /CH01, CH08, CH16		

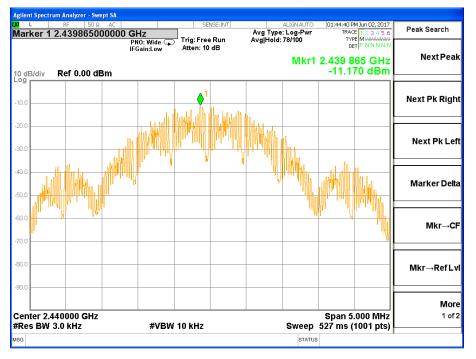
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2405 MHz	-11.447	≤8	PASS
2440 MHz	-11.170	≤8	PASS
2480 MHz	-10.287	≤8	PASS



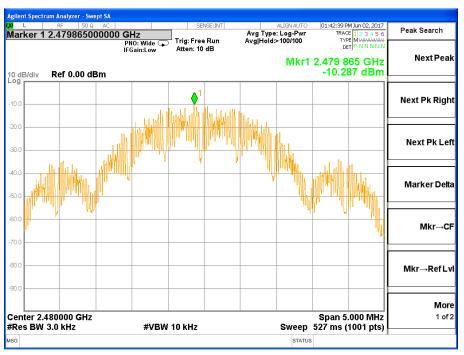
# TX CH01

# \_\_\_\_\_

# **TX CH08**



# TX CH16





# 7. BANDWIDTH TEST

#### 7.1 APPLIED PROCEDURES / LIMIT

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

#### 7.2 TEST PROCEDURE

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

#### 7.3 TEST SETUP



#### 7.4 EUT OPERATION CONDITIONS

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

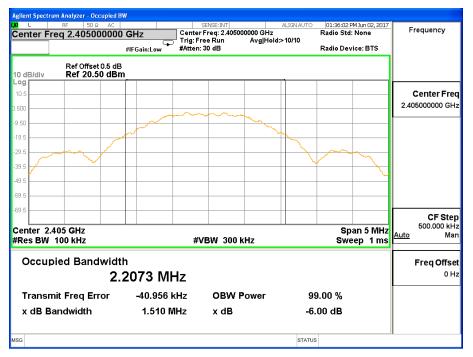


#### 7.5 TEST RESULTS

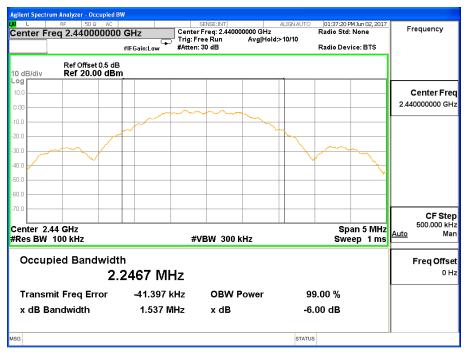
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 120V
Test Mode:	TX Mode /CH01, CH08, CH16		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	1.510	>=500KHz	PASS
2440 MHz	1.537	>=500KHz	PASS
2480 MHz	1.575	>=500KHz	PASS

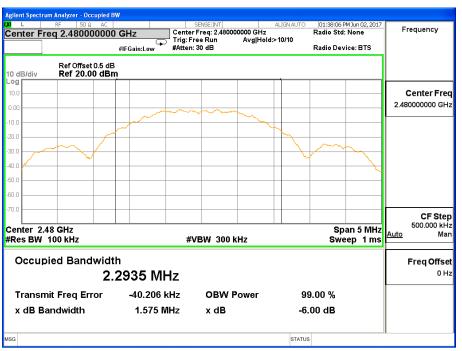
# TX CH 01



# TX CH 08



# TX CH 16





#### 8. PEAK OUTPUT POWER TEST

#### 8.1 APPLIED PROCEDURES / 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

a. The EUT was directly connected to the Power Sensor&PC

#### 8.3 TEST SETUP



#### 8.4 EUT OPERATION CONDITIONS

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



#### 8.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 120V
Test Mode:	TX Mode /CH01, CH08, CH16		

TX Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH01	2405	0.72	-1.33	30
CH08	2440	1.29	-0.83	30
CH16	2480	1.38	-0.73	30



# 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 External Antenna. It comply with the standard requirement.





# **Radiated Measurement Photos**



# **Conducted Measurement Photos**



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