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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C AND RSS 247 REQUIREMENT

Product Name: Dual-Band 2x2 802.11ac and BT4.1 Combo

Module

Brand Name: Foxconn WBUA31 Model No.:

Model Difference: N/A

FCC ID: RX3-WBUA31

IC: 2878F-WBUA31

ER/2016/80012-01 **Report No.:**

Issue Date: Sep. 02, 2019

FCC Rule Part: §15.247, Cat: DSS

IC Rule: RSS-247 issue 1 May 2015

Hon Hai Precision Industry Co., Ltd. **Prepared for:**

No.151, Sec. 1, Nankan Rd., Lujhu

Township, Taoyuan County, 33859, Taiwan

(R.O.C)

Prepared by: SGS Taiwan Ltd.

> **Electronics & Communication Laboratory** No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City,

Taiwan 24803





Testing Laboratory 0513

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VERIFICATION OF COMPLIANCE

Applicant: Hon Hai Precision Industry Co., Ltd.

No.151, Sec. 1, Nankan Rd., Lujhu Township, Taoyuan County,

33859, Taiwan (R.O.C)

Dual-Band 2x2 802.11ac and BT4.1 Combo Module **Product Name:**

Brand Name: Foxconn Model No.: WBUA31

Model Difference: N/A

FCC ID: RX3-WBUA31

IC: 2878F-WBUA31

Report Number: ER/2016/80012-01

Date of test: Aug. 02, 2016 ~ Aug. 19, 2016

Date of EUT Received: Aug. 02, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Marcus Tseng	Date:	Sep. 02, 2019
Prepared By:	Marcus Tseng/Engineer Karen Huang	Date:	Sep. 02, 2019
Approved By:	Karen Huang / Clerk Jim Ch ang	Date:	Sep. 02, 2019

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Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2016/80012	Rev.00	Initial creation of docu- ment	All	Aug. 19, 2016	Karen Huang
ER/2016/80012-01	Rev.01	Add section 1.7 remark and conduction data updated	Page 7, 17~18	Sep. 02, 2019	Karen Huang

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GENERAL INFORMATION

1.1 Product description

General:

ochicial.	
Product Name:	Dual-Band 2x2 802.11ac and BT4.1 Combo Module
Brand Name:	Foxconn
Model No.:	WBUA31
Model Difference:	N/A
Product SW/HW version:	N/A/ DVT
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3Vdc from Test Kit

Bluetooth_BR+EDR:

Bluetooth Version:	V4.1 dual mode + HS
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	7.53dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, P/N: W-M-D-B-N-0-0560(65"); Supplier: Foxconn Gain: 0.09dBi P/N: W-M-D-B-N-0-0560(70"); Supplier: Foxconn Gain: -0.20dBi

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: FUT) is supporting below features

	Product Feature			
Product Name:	Dual-Band 2x2 802.11ac and BT4.1 Combo Module			
Brand Name:	Foxconn			
Model No.:	WBUA31			
Model Difference:	N/A			
FCC ID:	RX3-WBUA31			
IC:	2878F-WBUA31			
Bluetooth Version	V4.1 dual mode + HS			
Wi-Fi- Specification	802.11a/b/g/n/ac			

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

Canada RSS-247 issue 1: 2015

RSS-Gen Issue 4:2014

FCC Part 15, Subpart C §15.247

FCC Public Notice DA 00-705 Measurement Guidelines

ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Designation number is: TW0001

ISED#: 4620A

1.5 Special Accessories

There is no special accessory used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

1.7 Remarks

The original test report ER/2016/80012 will be withdrawn with this test report ER/2016/80012-01 and is no longer valid when the withdrawal occurred.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated

emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss 3.7dB

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

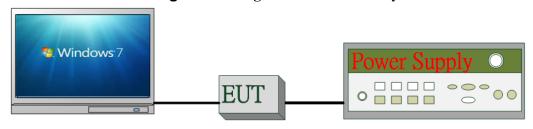


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded
3.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Unshielded
4.	Test Kit	N/A	N/A	N/A	N/A	N/A

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UMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission Com	
§15.247(b)(1)	RSS-247 §5.4 (2)	Peak Output Power	Compliant
§15.247(a)(1)	RSS-247 §5.1 (1) RSS-Gen §6.6	20dB & 99% Bandwidth	Compliant
§15.247(d)	RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	RSS-247 §5.1 (2)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 (4)	Number of hopping frequency	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 (4)	Time of Occupancy	Compliant
§15.203 §15.247(b)	RSS- Gen §8.3	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

CH	FREQUENCY	CH	FREQUENCY	СН	FREQUENCY	СН	FREQUENCY
0	2402 MHz	20	2422 MHz	40	2442 MHz	70	2462 MHz
1	2403 MHz	21	2423 MHz	41	2443 MHz	71	2463 MHz
2	2404 MHz	22	2424 MHz	42	2444 MHz	72	2464 MHz
3	2405 MHz	23	2425 MHz	43	2445 MHz	73	2465 MHz
4	2406 MHz	24	2426 MHz	44	2446 MHz	74	2466 MHz
5	2407 MHz	25	2427 MHz	45	2447 MHz	75	2467 MHz
6	2408 MHz	26	2428 MHz	46	2448 MHz	76	2468 MHz
7	2409 MHz	27	2429 MHz	47	2449 MHz	77	2469 MHz
8	2410 MHz	28	2430 MHz	48	2450 MHz	78	2470 MHz
9	2411 MHz	29	2431 MHz	49	2451 MHz	79	2471 MHz
10	2412 MHz	30	2432 MHz	50	2452 MHz	70	2472 MHz
11	2413 MHz	31	2433 MHz	51	2453 MHz	71	2473 MHz
12	2414 MHz	32	2434 MHz	52	2454 MHz	72	2474 MHz
13	2415 MHz	33	2435 MHz	53	2455 MHz	73	2475 MHz
14	2416 MHz	34	2436 MHz	54	2456 MHz	74	2476 MHz
15	2417 MHz	35	2437 MHz	55	2457 MHz	75	2477 MHz
16	2418 MHz	36	2438 MHz	56	2458 MHz	76	2478 MHz
17	2419 MHz	37	2439 MHz	57	2459 MHz	77	2479 MHz
18	2420 MHz	38	2440 MHz	58	2460 MHz	78	2480 MHz
19	2421 MHz	39	2441 MHz	59	2461 MHz		

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4.2 The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE	TESTED	MODULATION	PACKET		
MODE	MODE CHANNEL CHANNEL MODULATION		WODULATION	TYPE		
Bluetooth	0 to 78	0,39,78	GFSK	DH5		
	RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE	TESTED	MODULATION	PACKET		
MODE	CHANNEL	CHANNEL	MODULATION	TYPE		
Bluetooth	0 to 78	0,39,78	GFSK	DH5		

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth BR+EDR Transmitter for channel Low, Mid and High, the worst case H position was reported.

Pre-scanned was done on antenna W-M-D-B-N-0-0560 (65") and W-M-D-B-N-0-0560 (70"). The W-M-D-B-N-0-0560 (65") results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on antenna W-M-D-B-N-0-0560 (65") to presented on this test repot.

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ANTENNA PORT CONDUCTED MEASUREMENT.

ANTENN	CONDUCTED TEST						
	Peak Output Power, 20dB Band Width						
MODE	AVAILABLE	TESTED	,	PACKET			
MODE	CHANNEL	CHANNEL	MODULATION	TYPE			
	0 to 78	0,39,78	GFSK	DH5			
Bluetooth	0 to 78	0,39,78	π/4-DQPSK	DH5			
	0 to 78	0,39,78	8-DPSK	DH5			
		Bai	nd Edge				
Bluetooth -	0 to 78	0,78	GFSK	DH5			
Bluetootri	0 to 78	0,39,78	8-DPSK	DH5			
		Frequen	cy Separation				
Bluetooth	0 to 78	0,1,2	GFSK	DH5			
		Number of h	opping frequency				
Bluetooth	0 to 78	0 to 78	GFSK	DH5			
Time of Occupancy (Dwell time)							
Bluetooth	0 to 78	0,39,78	GFSK	DH1/DH3/DH5			
Bluetooth	0 to 78	39	π/4-DQPSK	DH1/DH3/DH5			
Bluetooth	0 to 78	39	8-DPSK	DH1/DH3/DH5			

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
20dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Frequency Separation	+/- 51.33 Hz
Number of hopping frequency	+/- 51.33 Hz
Time of Occupancy	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

	9kHz - 30MHz: +/- 2.87 dB				
	30MHz - 180MHz: +/- 3.37dB				
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB				
(Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB				
	1GHz - 18GHz: +/- 4.04dB				
	18GHz - 40GHz: +/- 4.04dB				

	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range	Limits dB(uV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016		
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017		
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017		
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.		

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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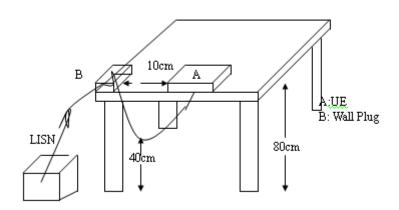
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plan.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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Temperature:

Humidity: 85 %



AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode: operation mode Test By: Marcus Tseng

> 11 AC 120V/60Hz

Phase:

Power:

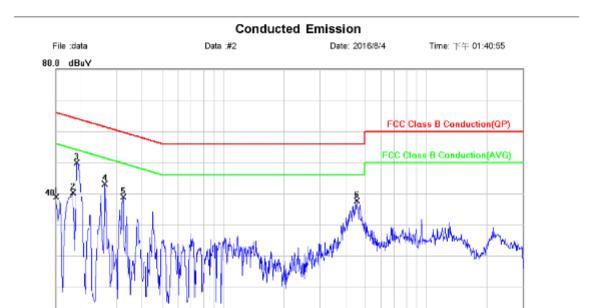
Site Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Operation mode

Note:

0.150



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	38.78	0.07	38.85	66.00	-27.15	peak	
2	0.1820	40.16	0.08	40.24	64.39	-24.15	peak	
3 *	0.1900	49.79	0.08	49.87	64.04	-14.17	peak	
4	0.2620	42.94	0.09	43.03	61.37	-18.34	peak	
5	0.3220	38.74	0.09	38.83	59.66	-20.83	peak	
6	4.5580	37.44	0.27	37.71	56.00	-18.29	peak	

(MHz)

5

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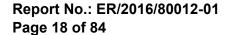
0.5

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30.000





Site Conduction Room

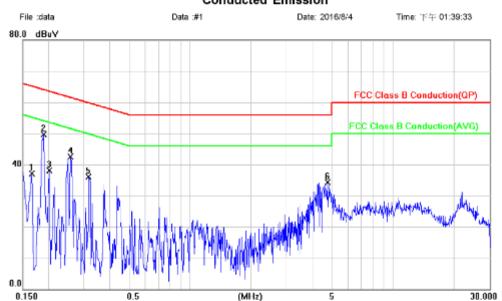
Limit: FCC Class B Conduction(QP)

Mode: Operation mode

Note:

Phase: Temperature: Power: AC 120V/60Hz Humidity: 85 %

Conducted Emission



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dΒ	Detector	Comment
1	0.1660	36.98	0.07	37.05	65.16	-28.11	peak	
2 *	0.1900	49.57	0.08	49.65	64.04	-14.39	peak	
3	0.2020	37.97	80.0	38.05	63.53	-25.48	peak	
4	0.2580	42.32	0.09	42.41	61.50	-19.09	peak	
5	0.3180	35.93	0.09	36.02	59.76	-23.74	peak	
6	4.7580	33.99	0.27	34.26	56.00	-21.74	peak	

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PEAK OUTPUT POWER MEASUREMENT

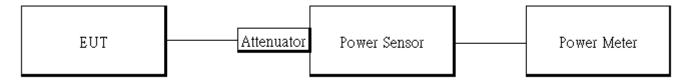
7.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 -2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

7.2 Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016		
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016		
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017		
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017		
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017		
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017		
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017		
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016		
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017		

7.3 Test Set-up:



7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
- 4. Record the max. reading.
- 5. Repeat above procedures until all default test channel is completed.

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7.5 Measurement Result

1M BR mode (Peak):

IN DIT HOUS (I Car).							
СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)			
0	2402	7.53	5.662	125			
39	2441	7.49	5.610	125			
78	2480	7.47	5.585	125			

1M RR mode (Average):

THE BIT HOUSE (Average).							
СН	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)			
0	2402	6.24	4.207	125			
39	2441	6.25	4.217	125			
78	2480	6.23	4.198	125			

2M EDR mode (Peak):

СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)		
0	2402	6.63	4.603	125		
39	2441	6.63	4.603	125		
78	2480	6.64	4.613	125		

2M EDR mode (Average):

СН	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	3.09	2.037	125
39	2441	3.11	2.046	125
78	2480	3.14	2.061	125

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3M FDR mode (Peak):

om Ebit mode (i cat).							
СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)			
0	2402	6.94	4.943	125			
39	2441	6.93	4.932	125			
78	2480	6.93	4.932	125			

3M EDR mode (Average):

	Frog	Max. Output include	Output	Limit
CH	Freq. (MHz)	tune up tolerance Power (dBm)	Power (mW)	(mW)
0	2402	3.02	2.004	125
39	2441	3.12	2.051	125
78	2480	3.07	2.028	125

NOTE: cable loss as 3.7dB that offset

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20DB & 99% BANDWIDTH MEASUREMENT

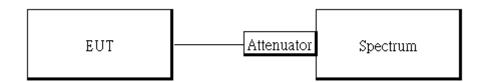
8.1 Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016

8.3 Test Set-up



8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
- 5. Mark the peak frequency and -20dB (upper and lower) frequency
- 6. Turn on the 99% bandwidth function, max reading.
- 7. Repeat above procedures until all test default channel is completed

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8.5 Measurement Result

GFSK

	20 dB	2/3	
СН	BW	BW	
	(MHz)	(MHz)	
Low	0.9248	0.62	
Mid	0.9251	0.62	
High	0.925	0.62	

π/4-DQPSK

8-DPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)	
Low	1.315	0.88	
Mid	1.315	0.88	
High	1.316	0.88	

СН	20 dB BW	2/3 BW
	(MHz)	(MHz)
Low	1.266	0.84
Mid	1.266	0.84
High	1.266	0.84

GESK

π/4-DQPSK

8-DPSK

OI JIK				
	99%			
СН	Bandwidth			
	(MHz)			
Low	0.90321			
Mid	0.90021			
High	0.90292			

	99%
СН	Bandwidth
	(MHz)
Low	1.1742
Mid	1.1762
High	1.1765

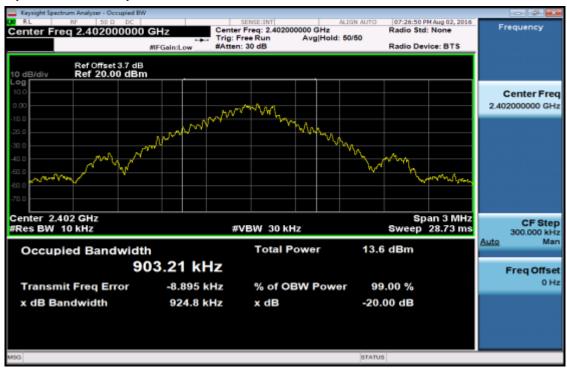
	99%	
СН	Bandwidth	
	(MHz)	
Low	1.1794	
Mid	1.1852	
High	1.1836	

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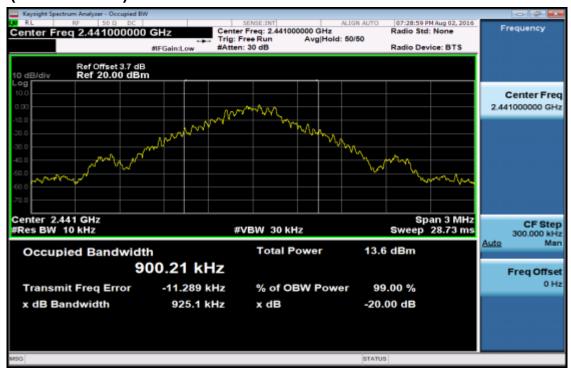
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CH-Low (GFSK mode)



CH-Mid (GFSK mode)



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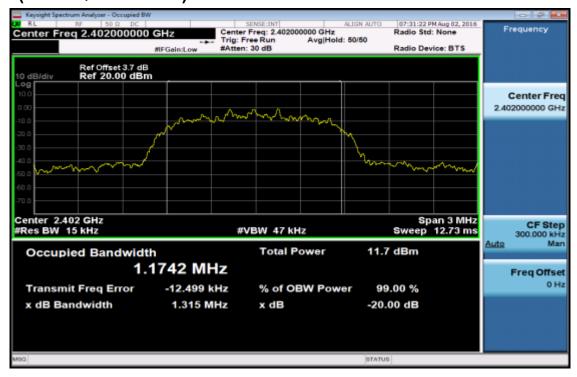
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CH-High (GFSK mode)



CH-Low (π/4-DQPSK mode)



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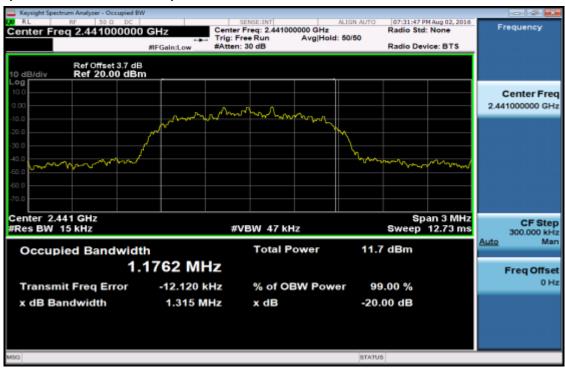
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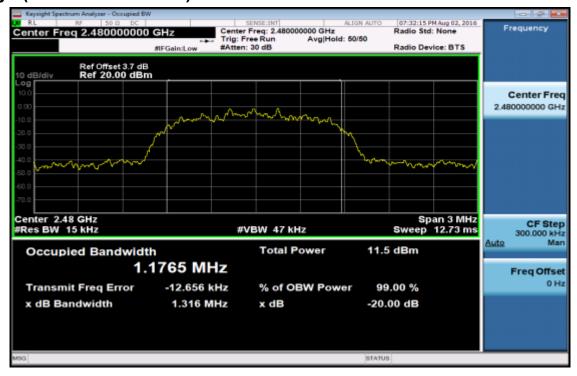
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CH-Mid (π/4-DQPSK mode)



CH-High (π/4-DQPSK mode)



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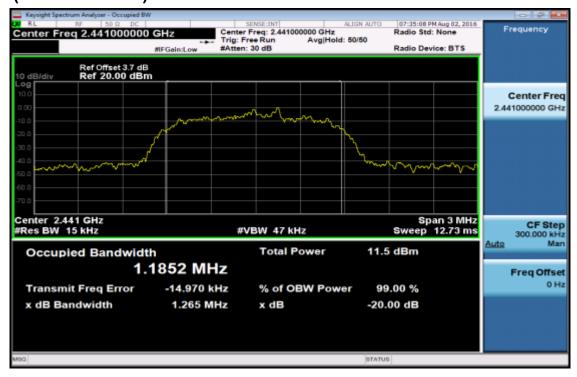
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CH-Low (8-DPSK mode)



CH-Mid (8-DPSK mode)



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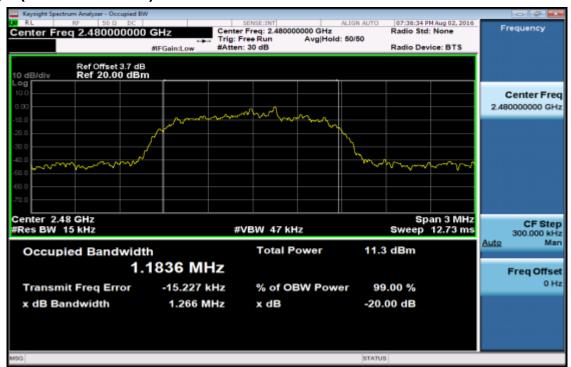
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CH-High (8-DPSK mode)



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

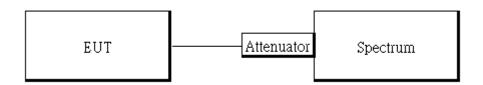
9.1 Standard Applicable

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9 limit.

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016

9.3 Test SET-UP



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9.4 Measurement Procedure

Conducted Band Edge:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Set RBW = 100 kHz & VBW = 300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- Repeat above procedures until all default test channel measured were complete.

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	

9.5 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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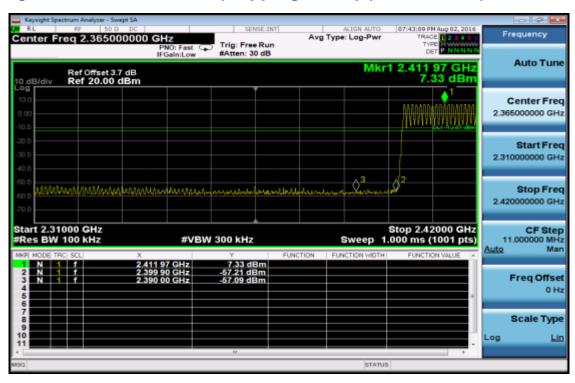
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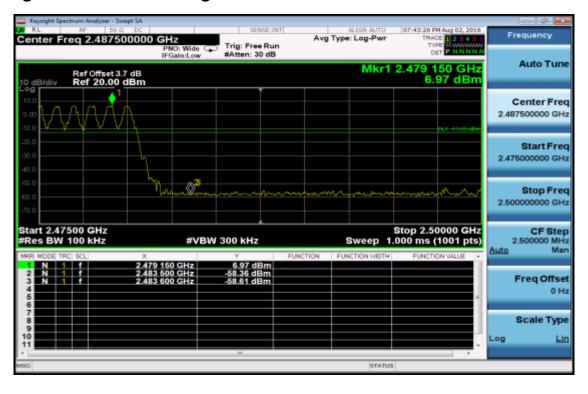
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Band Edges Test Data CH-Low (Hopping mode) (GFSK mode)



Band Edges Test Data CH-High



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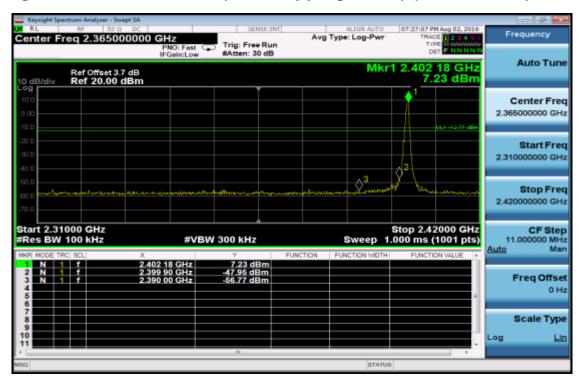
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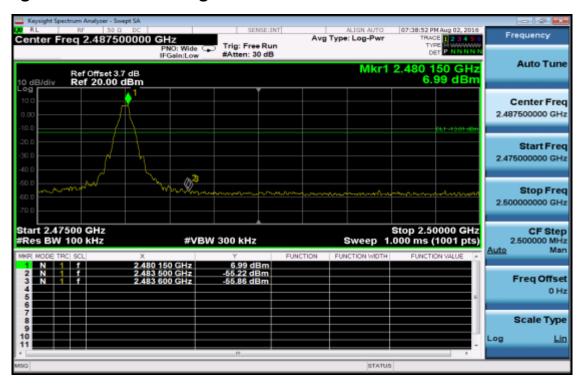
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Band Edges Test Data CH-Low (Non-Hopping mode) (GFSK mode)



Band Edges Test Data CH-High



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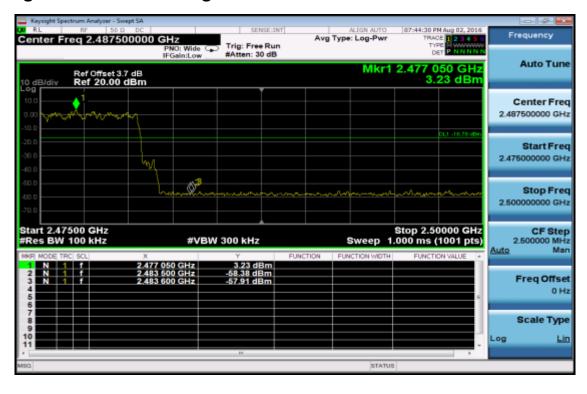
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Band Edges Test Data CH-Low (Hopping mode) (8-DPSK mode)



Band Edges Test Data CH-High



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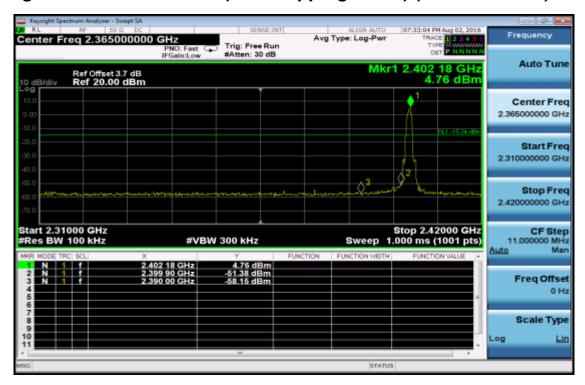
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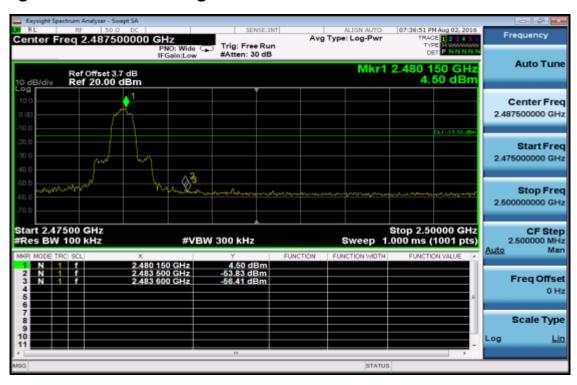
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Band Edges Test Data CH-Low (Non-Hopping mode) (8-DPSK mode)



Band Edges Test Data CH-High



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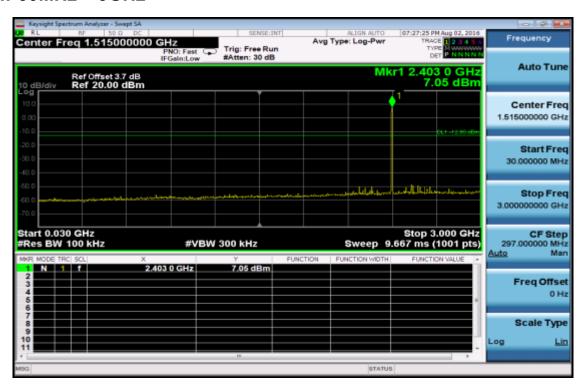
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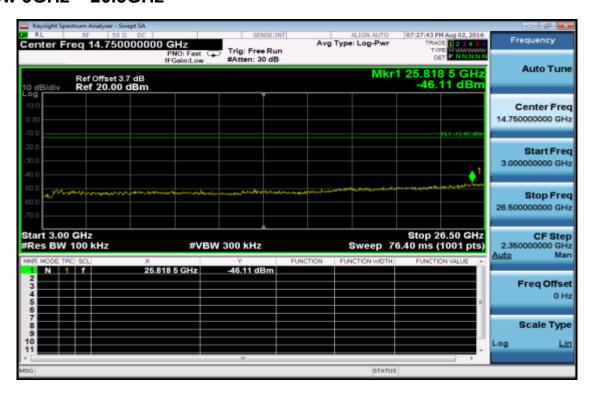
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Conducted Spurious Emission Measurement Result (GFSK mode) Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz



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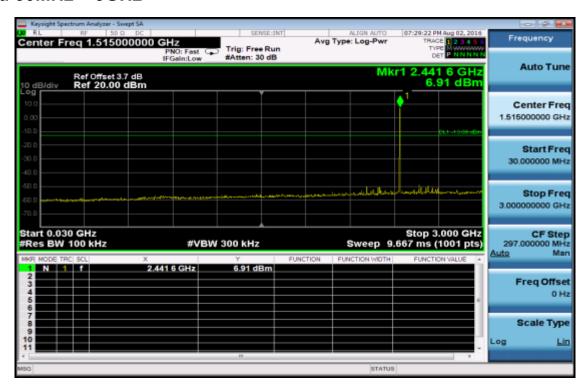
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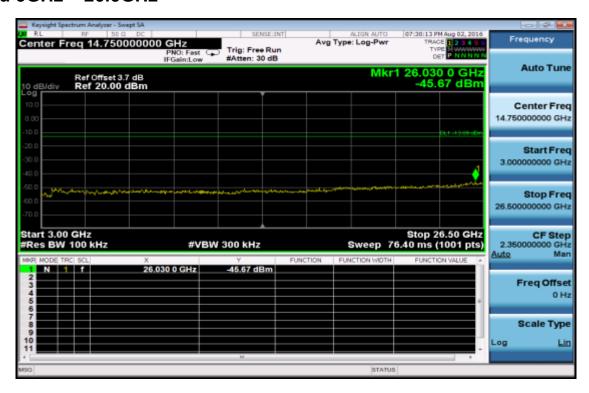
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



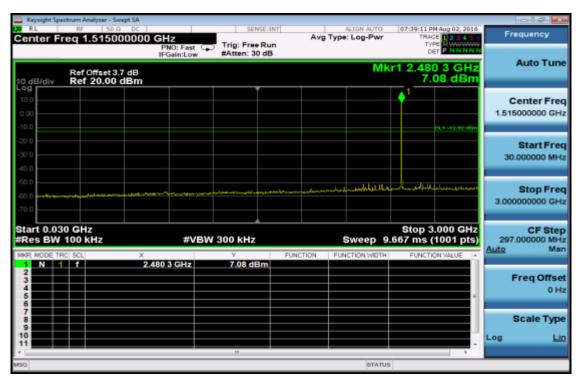
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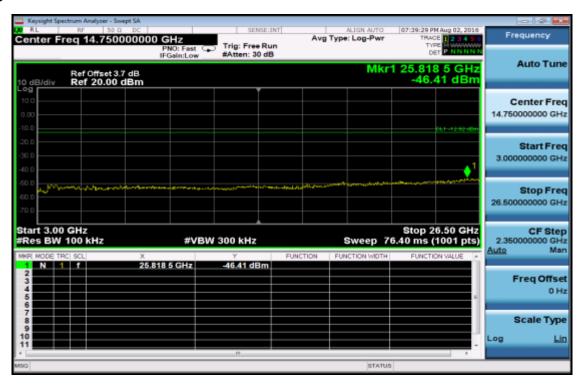
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Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz

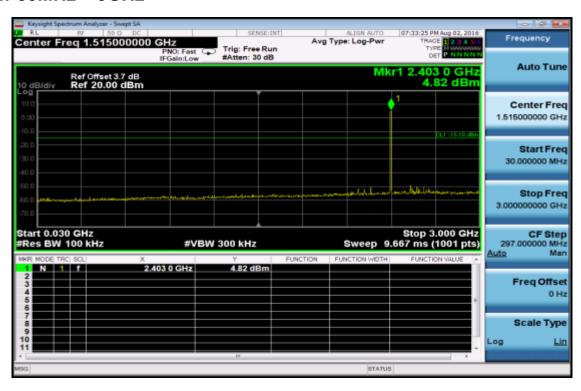


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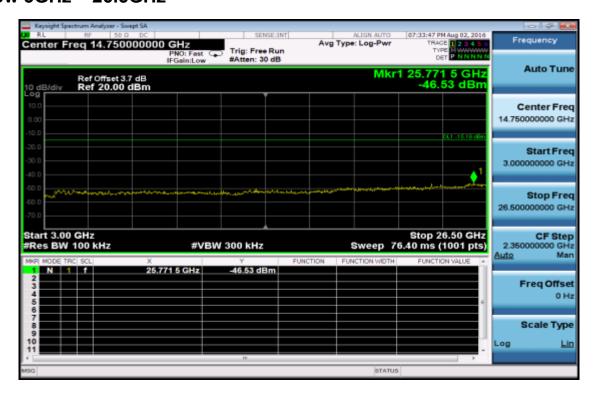
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Conducted Spurious Emission Measurement Result (8DPSK mode) Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz



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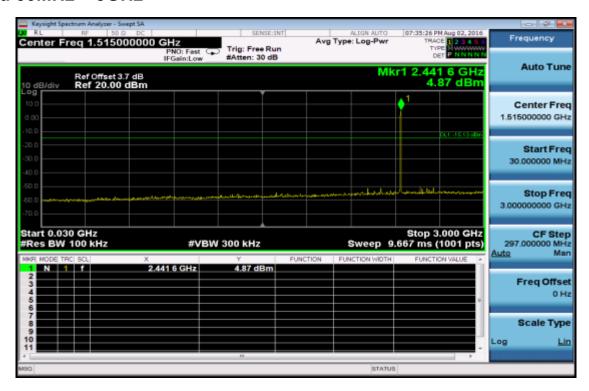
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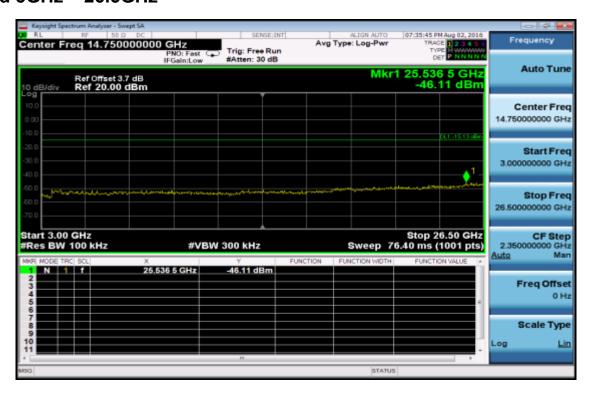
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz

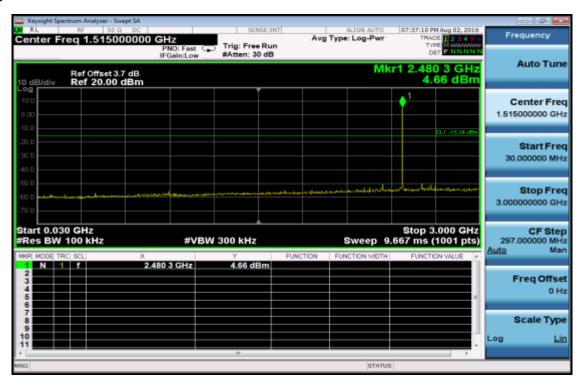


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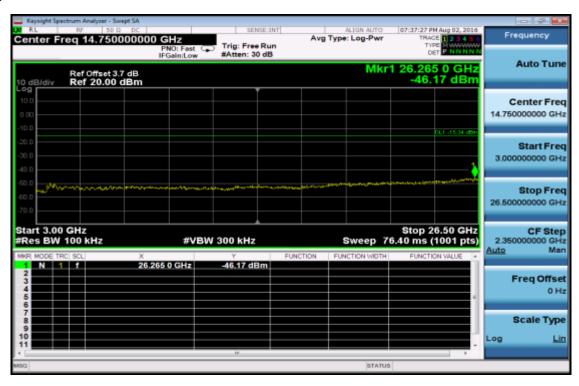
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Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, must also comply with the §15.209 & RSS-Gen §8.10 Table 6 limit.

And according to §15.33(a) (1) & RSS-Gen §8.9 Table 4 & 5, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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10.2 Measurement Equipment Used

		966 Chambe	r		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

NOTE: N.C.R refers to Not Calibrated Required.

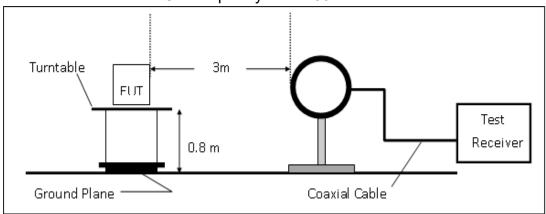
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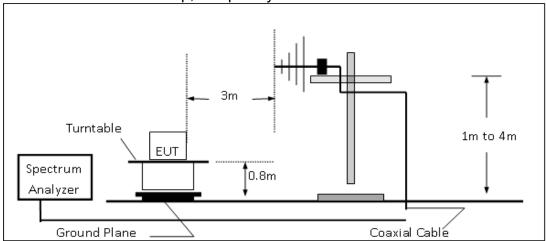


10.3 Test SET-UP

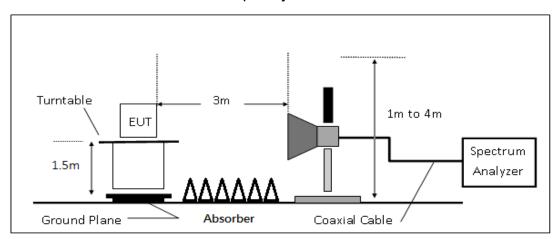
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

Radiated Emission

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plan.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Use the follow spectrum analyzer setting:
 - (1) Span = wide enough to fully capture the emission being measured
 - (2) RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, VBW \ge RBW, Sweep = auto, Detector function = peak, Trace = max hold
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c)

Duty Cycle = On time/100 milliseconds

On time = N1*L1=N2*L2+...+N(n-1)*LN(n-1)+N(n)*L(n)

Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log (duty Cycle)

- 6. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 7. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 8. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 9. Repeat above procedures until all frequency of the interest measured were complete.

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10.5 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	•	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

10.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result: (Hopping Mode)

Operation Mode: **BR** Hopping Test Date: 08/02/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	De cetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.22	28.96	-1.74	54.00	-26.78	
2390.00	F	Peak	38 70	40 45	-1 74	74 00	-35 30	

Operation Mode: **BR** Hopping Test Date: 08/02/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.21	28.95	-1.74	54.00	-26.79	-
2390 00	F	Peak	38 91	40 65	-1 74	74 00	-35 09	

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Operation Mode: **BR** Hopping Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dΒμV/m	dB	dBuV/m	dB	
2483.50	Е	Average	27.56	29.18	-1.62	54.00	-26.44	-
2483.50	Е	Peak	49.19	50.81	-1.62	74.00	-24.81	

Operation Mode: **BR** Hopping Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dΒμV/m	dB	dBuV/m	dB	
2483.50	Е	Average	27.93	29.55	-1.62	54.00	-26.07	
2483.50	Е	Peak	53.48	55.10	-1.62	74.00	-20.52	

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Operation Mode: **EDR** Hopping Test Date: 08/05/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 21 deg C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Kane

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB
2390.00	Е	Average	27.20	28.94	-1.74	54.00	-26.80
2390.00	E	Peak	40.63	42.37	-1.74	74.00	-33.37

Operation Mode: **EDR Hopping** Test Date: 08/02/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Bandedge CH LOW Test Engineer: Operation Band: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dΒμV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.28	29.02	-1.74	54.00	-26.72	_
2390.00	Е	Peak	44.85	46.59	-1.74	74.00	-29.15	

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Operation Mode: **EDR Hopping** Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	De cetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
2483.50	Е	Average	27.71	29.33	-1.62	54.00	-26.29
2483.50	Е	Peak	47.58	49.20	-1.62	74.00	-26.42

Operation Mode: **EDR Hopping** Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Bandedge CH HIGH Test Engineer: Operation Band: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	Е	Average	28.03	29.65	-1.62	54.00	-25.97
2483.50	Е	Peak	53.41	55.02	-1.62	74.00	-20.59

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Radiated Emission – Band Edge (Non-Hopping Mode):

Operation Mode: BR(1M) Test Date: 08/02/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dΒμV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.37	29.11	-1.74	54.00	-26.63	-
2390.00	E	Peak	40.43	42.17	-1.74	74.00	-33.57	

Operation Mode: BR(1M) Test Date: 08/02/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.64	29.38	-1.74	54.00	-26.36	
2390.00	Е	Peak	41.34	43.08	-1.74	74.00	-32.66	

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Operation Mode: BR(1M) Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	De cetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB
2483.50	Е	Average	30.20	31.82	-1.62	54.00	-23.80
2483.50	Е	Peak	48.02	49.64	-1.62	74.00	-25.98

Operation Mode: BR(1M) Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB	
2483.50	Е	Average	31.18	32.80	-1.62	54.00	-22.82	
2483.50	Е	Peak	55.45	57.07	-1.62	74.00	-18.55	

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Operation Mode: EDR(3M) Test Date: 08/05/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 21 deg C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Kane

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dΒμV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.31	29.05	-1.74	54.00	-26.69	_
2390.00	E	Peak	42.95	44.69	-1.74	74.00	-31.05	

Operation Mode: EDR(3M) Test Date: 08/02/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Bandedge CH LOW Test Engineer: Operation Band: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.61	29.35	-1.74	54.00	-26.39	_
2390.00	Е	Peak	45.73	47.48	-1.74	74.00	-28.27	

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Operation Mode: EDR(3M) Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB
2483.50	Е	Average	30.11	31.73	-1.62	54.00	-23.89
2483.50	E	Peak	53.70	55.32	-1.62	74.00	-20.30

Operation Mode: EDR(3M) Test Date: 08/02/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dΒμV/m	dB	dBuV/m	dB	
2483.50	Е	Average	31.26	32.88	-1.62	54.00	-22.74	
2483.50	Е	Peak	55.52	57.14	-1.62	74.00	-18.48	

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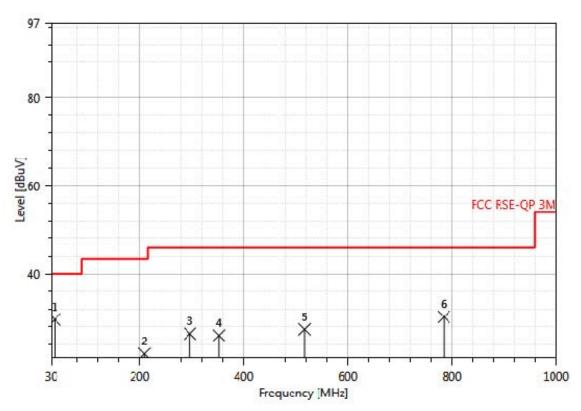
Radiated Spurious Emission Measurement Result: For Frequency form 30MHz to 1000MHz

Operation Mode: Test Date: 08/03/2016 BR(1M)

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH LOW Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBμV/m	dB	dBuV/m	dB
36.79	S	Peak	29.69	38.53	-8.84	40.00	-10.31
209.45	S	Peak	21.94	31.71	-9.77	43.50	-21.56
296.75	S	Peak	26.49	32.47	-5.98	46.00	-19.51
353.01	S	Peak	26.07	30.97	-4.90	46.00	-19.93
516.94	S	Peak	27.47	29.41	-1.94	46.00	-18.53
784.66	S	Peak	30.29	27.63	2.66	46.00	-15.71

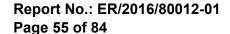
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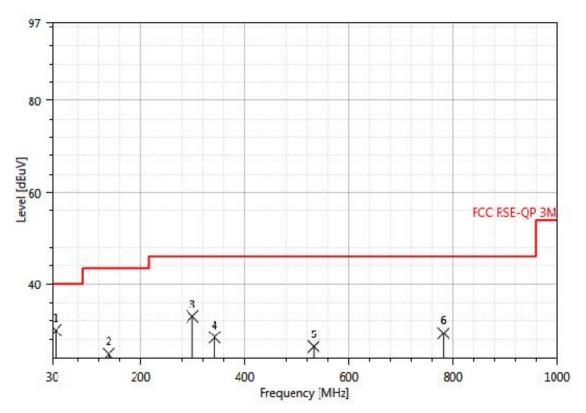




Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH LOW Test Engineer: Tin

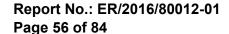
EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
36.79	S	Peak	29.99	38.82	-8.84	40.00	-10.01
138.64	S	Peak	24.84	33.33	-8.49	43.50	-18.66
299.66	S	Peak	32.98	38.91	-5.93	46.00	-13.02
342.34	S	Peak	28.47	33.57	-5.10	46.00	-17.53
532.46	S	Peak	26.45	28.13	-1.68	46.00	-19.55
781.75	S	Peak	29.35	26.59	2.76	46.00	-16.65

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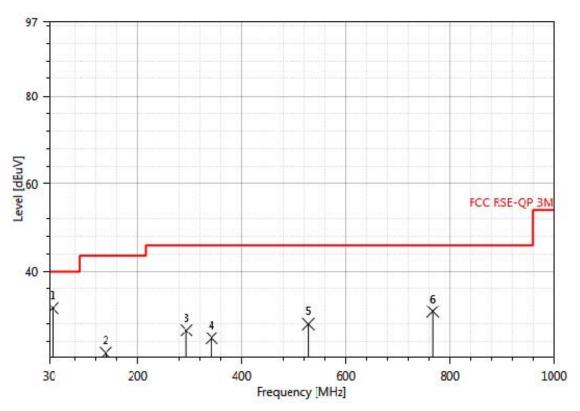




Fundamental Frequency: 2441 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH MID Test Engineer: Tin

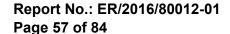
EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
36.79	S	Peak	31.64	40.47	-8.84	40.00	-8.36
138.64	S	Peak	21.43	29.92	-8.49	43.50	-22.07
293.84	S	Peak	26.59	32.63	-6.05	46.00	-19.41
342.34	S	Peak	24.83	29.93	-5.10	46.00	-21.17
527.61	S	Peak	28.05	29.37	-1.32	46.00	-17.95
767.20	S	Peak	30.87	27.73	3.14	46.00	-15.13

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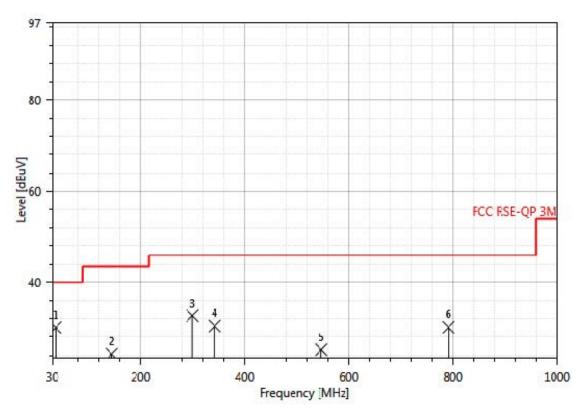




Fundamental Frequency: 2441 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH MID Test Engineer: Tin

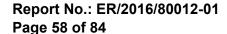
EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
36.79	S	Peak	30.12	38.96	-8.84	40.00	-9.88
144.46	S	Peak	24.32	32.39	-8.07	43.50	-19.18
299.66	S	Peak	32.67	38.60	-5.93	46.00	-13.33
342.34	S	Peak	30.47	35.57	-5.10	46.00	-15.53
547.01	S	Peak	25.27	26.94	-1.67	46.00	-20.73
791.45	S	Peak	30.19	27.30	2.89	46.00	-15.81

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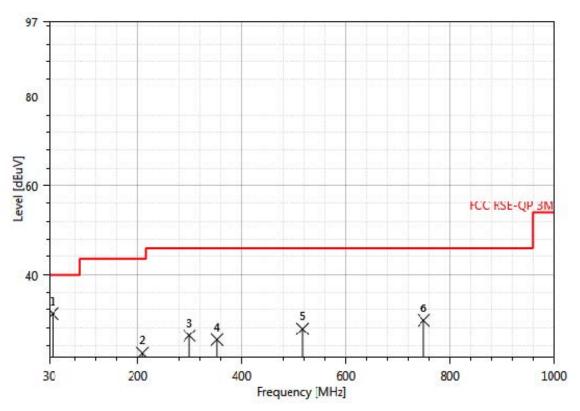




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH HIGH Test Engineer: Tin

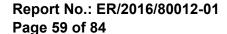
EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
36.79	S	Peak	31.17	40.00	-8.84	40.00	-8.83
209.45	S	Peak	22.36	32.13	-9.77	43.50	-21.14
299.66	S	Peak	26.26	32.19	-5.93	46.00	-19.74
353.01	S	Peak	25.32	30.22	-4.90	46.00	-20.68
516.94	S	Peak	27.79	29.73	-1.94	46.00	-18.21
749.74	S	Peak	29.70	26.98	2.72	46.00	-16.30

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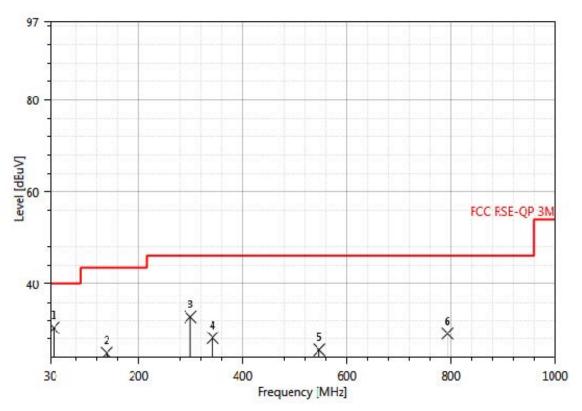




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
36.79	S	Peak	30.44	39.27	-8.84	40.00	-9.56
138.64	S	Peak	24.97	33.45	-8.49	43.50	-18.53
299.66	S	Peak	32.77	38.69	-5.93	46.00	-13.23
342.34	S	Peak	28.26	33.36	-5.10	46.00	-17.74
547.01	S	Peak	25.67	27.35	-1.67	46.00	-20.33
793.39	S	Peak	29.20	26.34	2.86	46.00	-16.80

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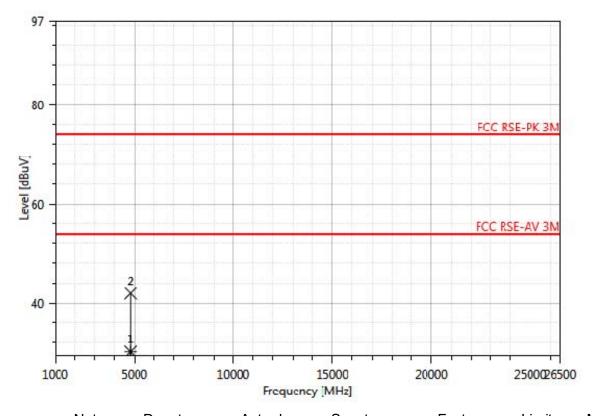
Radiated Spurious Emission Measurement Result: For Frequency above 1 GHz

Operation Mode: Test Date: 08/03/2016 BR(1M)

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH LOW Test Engineer:

H Plane EUT Pol.: Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	
4804.00	Н	Average	30.17	25.25	4.92	54.00	-23.83	_
4804.00	Н	Peak	41.95	37.03	4.92	74.00	-32.05	

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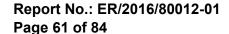
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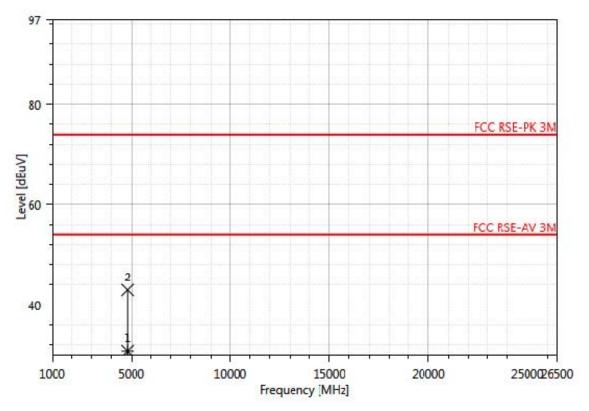




Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

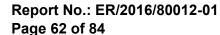


Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode Reading Level FS		@3m			
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB
4804.00	Н	Average	30.79	25.87	4.92	54.00	-23.21
4804.00	Н	Peak	42.98	38.06	4.92	74.00	-31.02

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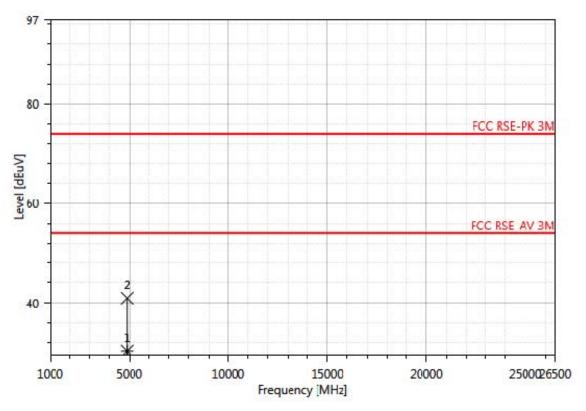




Fundamental Frequency: 2441 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH MID Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

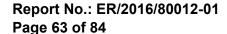


Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode Reading Level FS		@3m			
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBµV/m	dB	dBuV/m	dB
4882.00	Н	Average	30.30	25.12	5.18	54.00	-23.70
4882.00	Н	Peak	40.94	35.76	5.18	74.00	-33.06

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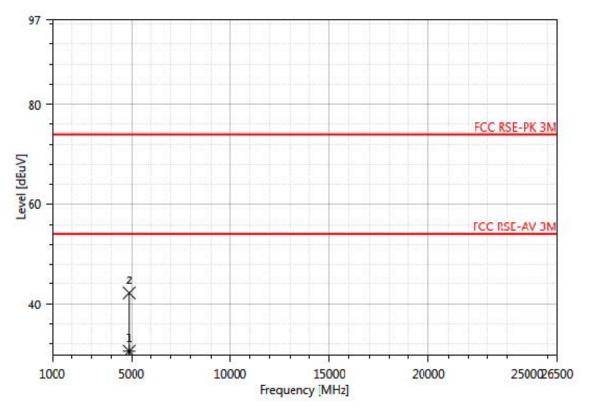




Fundamental Frequency: 2441 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH MID Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

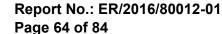


Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	_
4882.00	Н	Average	30.59	25.41	5.18	54.00	-23.41	_
4882.00	Н	Peak	42.22	37.04	5.18	74.00	-31.78	

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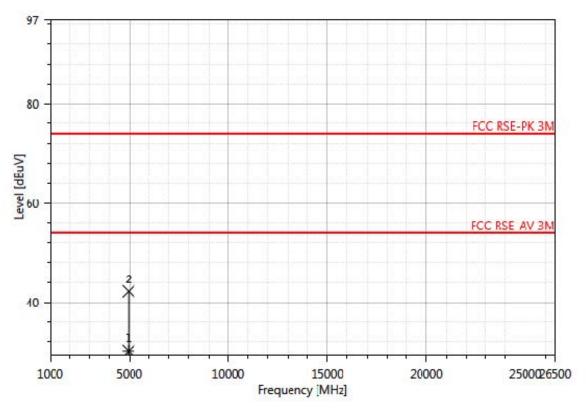




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



	Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
			Mode	Reading Level	FS		@3m		
	MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	
_	4960.00	Н	Average	30.48	25.19	5.29	54.00	-23.52	
	4960.00	Н	Peak	41.69	36.40	5.29	74.00	-32.31	

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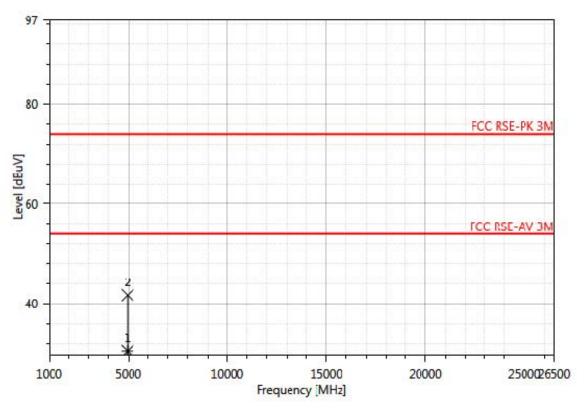




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH HIGH Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
	Mode Reading Level FS		@3m				
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
4960.00	Н	Average	30.18	24.89	5.29	54.00	-23.82
4960.00	Н	Peak	42.20	36.91	5.29	74.00	-31.80

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11 FREQUENCY SEPARATION

11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

11.2 Measurement Equipment Used

	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017				
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017				
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017				
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016				

11.3 Test Set-up



11.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = middle of hopping channel.
- 5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto.
- 6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

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11.5 Measurement Result

Channel separation (MHz)	Limit	Result
1	>=25 kHz or 2/3 times 20dB bandwidth	PASS

Frequency Separation Test Data



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12 NUMBER OF HOPPING FREQUENCY

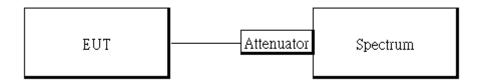
12.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2 Measurement Equipment Used

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017			
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017			
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016			

12.3 Test Set-up



12.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 5. Set the spectrum analyzer as RBW=430 kHz, VBW=1.5MHz., Detector = Peak
- 6. Max hold, view and count how many channel in the band.

12.5 Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441GHz	40	
2.441 GHz – 2.4835GHz	39	>15
2.4GHz ~2.4835GHz	(40+39) = 79	

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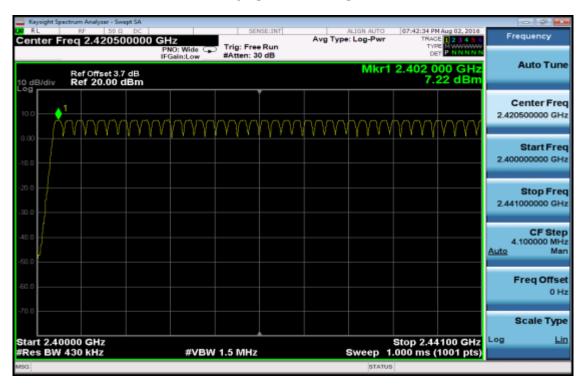
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Channel Number

2.402GHz - 2.441GHz



2.441GHz - 2.4835GHz



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TIME OF OCCUPANCY (DWELL TIME) 13

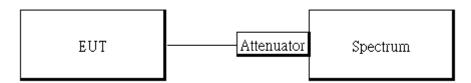
13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2 Measurement Equipment Used

	Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017					
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017					
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017					
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016					

13.3 Test Set-up



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13.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = $2\sim8$ ms.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2 DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4 DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 * 20) (S), Hop Over Occupancy Time comes to (800 / 6 / 20)*(0.4 *20) =53.33

Note: the result of the complete test default channel at 1Mbps is recorded on the test report. 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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13.5 Tabular Result of the Measurement

CFCK (1Mhns)

GFSK (TRIDPS)					
Channel	PACKET TYPE	Measurement Result	Limit		
		(ms)	(ms)		
0	DH1	122.88	400ms		
	DH3	262.72	400ms		
	DH5	307.95	400ms		
39	DH1	122.24	400ms		
	DH3	262.72	400ms		
	DH5	307.95	400ms		
78	DH1	123.20	400ms		
	DH3	262.72	400ms		
	DH5	307.95	400ms		

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	124.80	400ms
	DH3	262.72	400ms
	DH5	307.95	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	123.20	400ms
	DH3	262.72	400ms
	DH5	309.87	400ms

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A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

`	• /				
CH Low	DH1 time slot =	0.384 *	(1600/2/79) *	31.6 =	122.88 (ms)
	DH3 time slot =	1.642 *	(1600/4/79) *	31.6 =	262.72 (ms)
	DH5 time slot =	2.887 *	(1600/6/79) *	31.6 =	307.95 (ms)
CH Mid	DH1 time slot =	0.382 *	(1600/2/79) *	31.6 =	122.24 (ms)
	DH3 time slot =	1.642 *	(1600/4/79) *	31.6 =	262.72 (ms)
	DH5 time slot =	2.887 *	(1600/6/79) *	31.6 =	307.95 (ms)
CH High	DH1 time slot =	0.385 *	(1600/2/79) *	31.6 =	123.20 (ms)
	DH3 time slot =	1.642 *	(1600/4/79) *	31.6 =	262.72 (ms)
	DH5 time slot =	2.887 *	(1600/6/79) *	31.6 =	307.95 (ms)
π/4 -DQPSI	K (2Mbps):				
CH Mid	2DH1 time slot=	0.390 *	(1600/2/79) *	31.6 =	124.80 (ms)
	2DH3 time slot=	1.642 *	(1600/4/79) *		262.72 (ms)
	2DH5 time slot=	2.887 *	(1600/6/79) *	31.6 =	307.95 (ms)
8-DPSK (31	Mbps):				
CH Mid	3DH1 time slot=	0.385 *	(1600/2/79) *	31.6 =	123.20 (ms)
	3DH3 time slot=	1.642 *	` '	31.6 =	262.72 (ms)
	3DH5 time slot=	2.905 *	(1600/6/79) *	31.6 =	309.87 (ms)

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GFSK (1Mbps) for AFH Mode							
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)				
20	DH5	153.97	400ms				
π/4 DQPSK (2Mbps) for Mode							
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)				
20	DH5	153.97	400ms				
8-DPSK (3Mbps) for AFH Mode							
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)				
20	DH5	154.93	400ms				

GFSK (1Mbps):

DH5 time sl = 2.887 (ms) * (800/6/20) * 8 = 153.97 (ms)

π/4 -DQPSK (2Mbps

2DH5 time := 2.887 (800/6/20)*8 = 153.97(ms)

8-DPSK (3Mbps):

(ms) * (800/6/20) * 8 = 154.93 (ms) 3DH5 time := 2.905

13.6 Measurement Result

Note: Refer to next page for plots.

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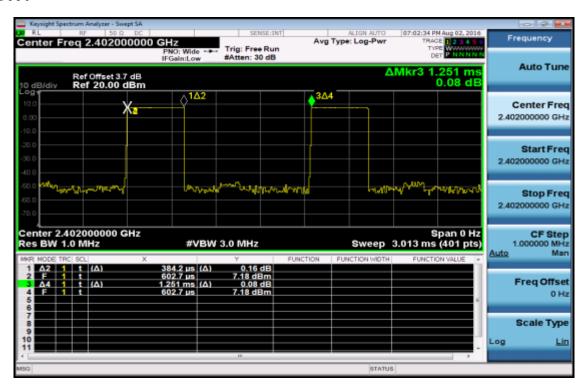
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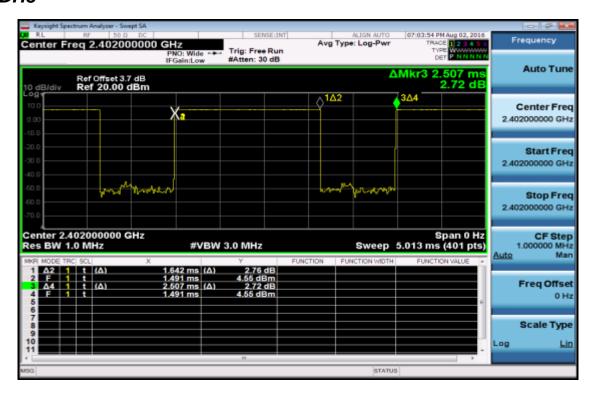
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CH-Low DH1



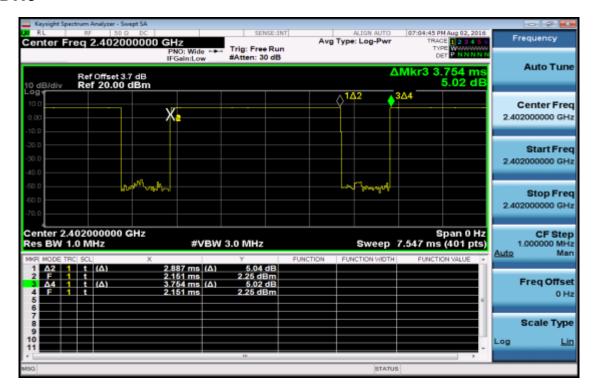
DH3



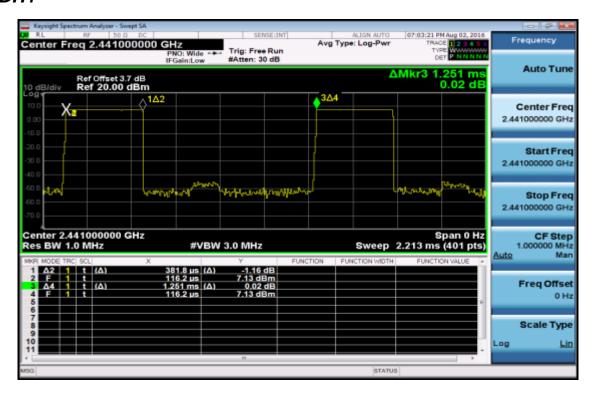
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DH₅



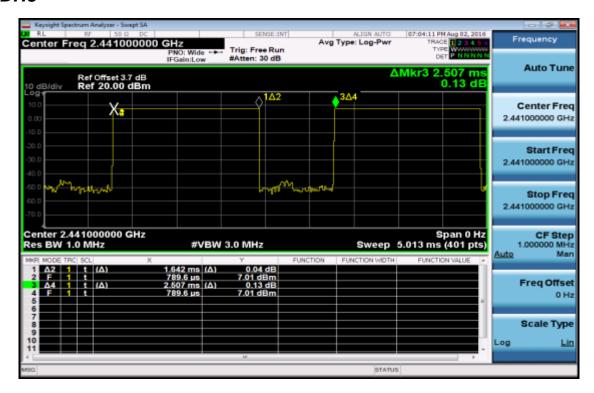
CH-Mid DH1



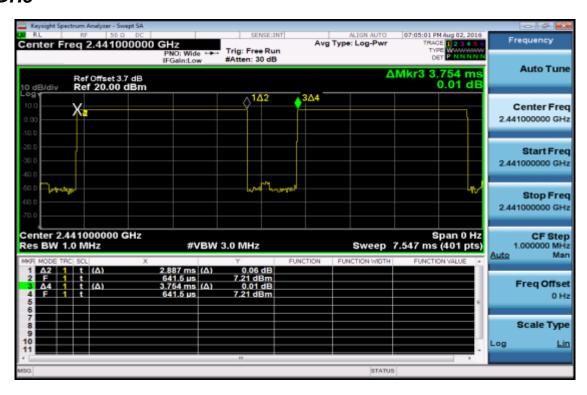
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DH3



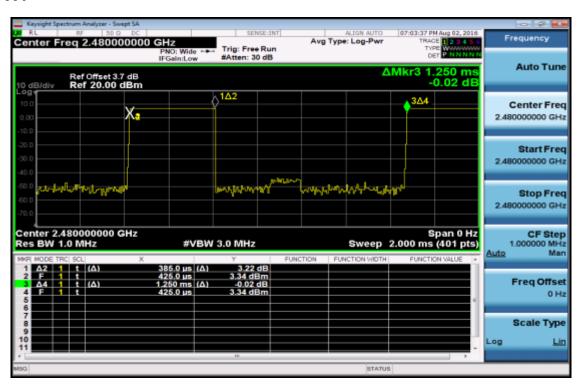
DH₅



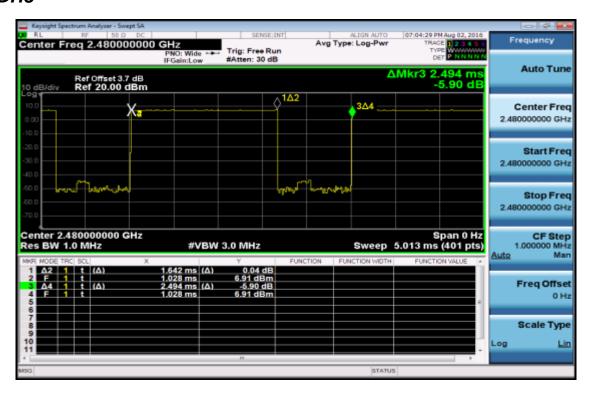
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CH-High DH1



DH3



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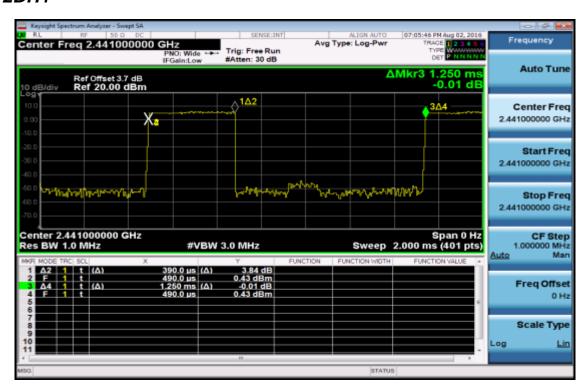
DH₅



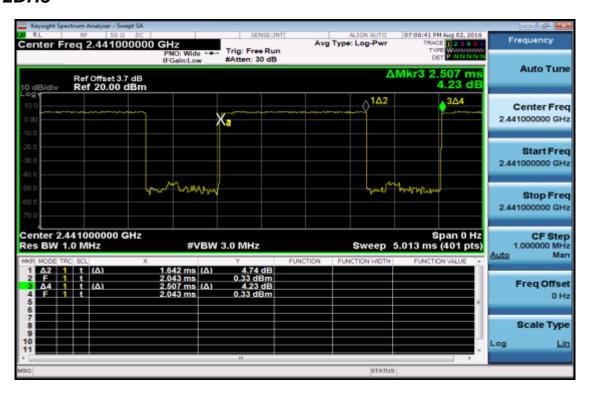
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CH-Mid 2DH1



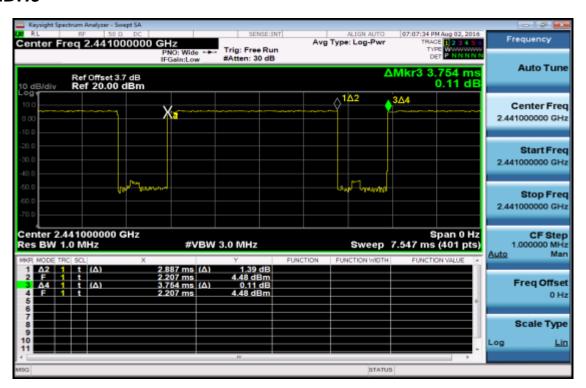
2DH3



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2DH5

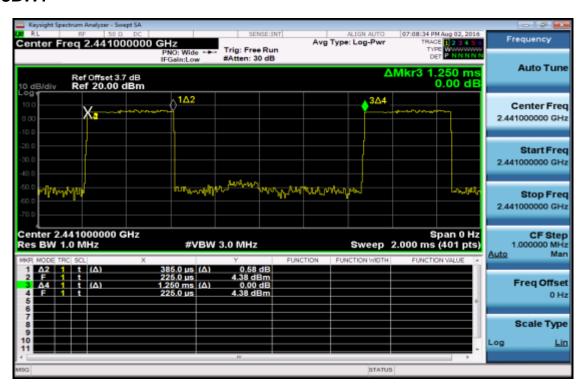


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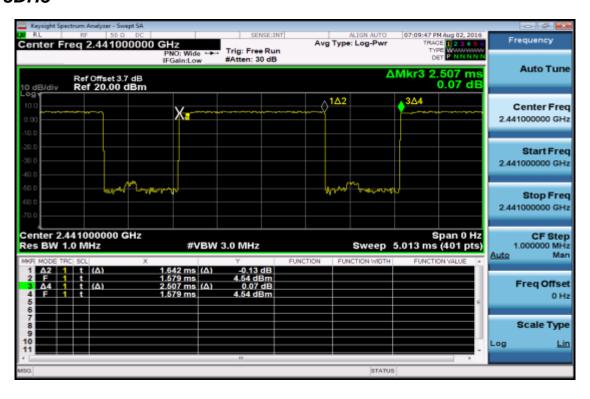
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CH-Mid 3DH1



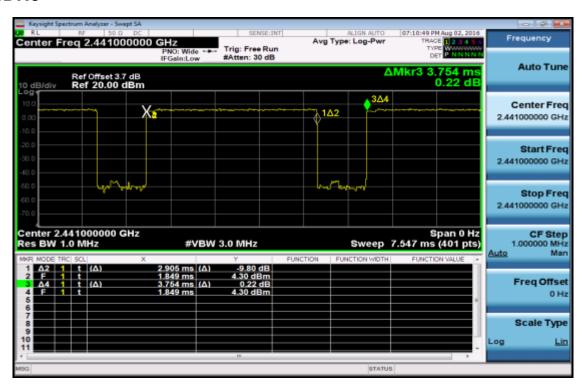
3DH3



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3DH5



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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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