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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

0F

Product Name: Link box

HTC **Brand Name:**

2PU6100 Model No.:

N/A **Model Difference:**

FCC ID: NM82PU6100

IC: 4115A-2PU6100

ER/2015/A0043 **Report No.:**

Dec. 14, 2015 **Issue Date:**

§15.247, Cat: DSS **FCC Rule Part:**

RSS-247 issue 1 May 2015 IC Rule Part:

HTC Corporation

1F, 6-3 Baogiang Road, Xindian District, Prepared for (FCC):

New Taipei City 231, Taiwan

HTC Corporation

1F, No. 6-3, Baoqiang Rd Xindian City Prepared for (IC):

> Taipei Taiwan SGS Taiwan Ltd.

Electronics & Communication Laboratory

Prepared by: No.134, Wu Kung Road, New Taipei Indus-

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Taiwan 24803



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VERIFICATION OF COMPLIANCE

HTC Corporation Applicant (FCC):

No. 88, Sec. 3, Zhongxing Rd.

Xindian Dist., New Taipei City 231, Taiwan.

HTC Corporation

Applicant (IC): 1F, No. 6-3, Baogiang Rd Xindian City Taipei Taiwan

Product Name:

2PU6100 Model No.:

N/A **Model Difference:**

Brand Name:

FCC ID: NM82PU6100

IC: 4115A-2PU6100 ER/2015/A0043 **Report Number:**

Oct. 07, 2015 ~ Nov. 13, 2015 Date of test:

HTC

Date of EUT Received: Oct. 07, 2015

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:	Cooper Hou	Date:	Dec. 14, 2015	
Prepared By:	Cooper Hsu/Engineer Allen Tsai	Date:	Dec. 14, 2015	
Approved By:	Allen Tsai / Engineer Ling Ll ang Jim Chang / Asst. Manager	Date:	Dec. 14, 2015	

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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/A0043	R/2015/A0043 Rev.00 Initial creation of document		Dec. 14, 2015

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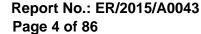
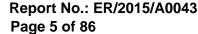




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GENERAL INFORMATION

1.1. Product description

General:

eneral.						
Product Name:	Link box					
Brand Name:	HTC					
Model No.:	2PU6100					
Model Difference:	N/A					
Product SW/HW version:	5.6.0.9200 / DVT					
Radio SW/HW version:	5.6.0.9200 / DVT					
Test SW Version:	N/A					
RF power setting in TEST SW:	N/A					
3 in 1 cable:	Model No: NE 5M-31C Supplier: N/A					
Audio cable:	Model No: NE 45CM-AJ Supplier: N/A					
1M HDMI Cable:	Model No: NE 1M-HC Supplier: N/A					
USB Cable A-A (1M):	Model No: NE 1M-UC Supplier: N/A					
USB 3.0 Cable (0.45M)	Model No: NE 45CM-UC Supplier: N/A					
Earpiece:	Model No: MX500 Supplier: N/A					
Micro USB Cable:	Model No: NE 1M-UC-B Supplier: N/A					
	12Vdc from USB port.					
Power Supply:	Adapter: 1. Model No.: TC NE18W-EU, Supplier: hTC. 2. Model No.: TC NE18W-UK, Supplier: hTC 3. Model No.: TC NE18W-US, Supplier: hTC					

Bluetooth_BR+EDR:

Bluetooth Version:	V4.1 dual mode
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	8.46 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain:1.80dBi

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Bluetooth features, and below is details of information

	Product Feature				
Product Name:	Link box				
Brand Name:	HTC				
Model No.:	2PU6100				
Model Difference:	N/A				
FCC ID:	NM82PU6100				
IC:	4115A-2PU6100				
Bluetooth Version	V4.1 dual mode				

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 May 2015

Canada RSS-Gen issue4 Nov. 2014

FCC Part 15, Subpart C §15.247

FCC Public Notice DA 00-705 Measurement Guidelines

ANSI C63.10:2013

Note:

- 1. All test items have been performed and record as per the above standards.
- 2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

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. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5.

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.

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2. 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 and attenuator factor. Following shows an offset computation example with cable loss 1dB and splitter 0dB splitter. Offset = RF cable loss (dB)+ splitter(dB) = 1 + 0 = 1(dB)

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2.5. Configuration of Tested System

Fig. 2-1 Radiated Emission

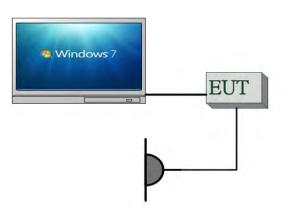


Fig. 2-3 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Notebook	Lenovo	R400	7440AV6	Shield	Un-shield
2	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

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SLIMMARY OF TEST RESULTS

3. SUMMART OF TEST RESULTS							
FCC Rules	IC Rules	Description Of Test	Result				
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant				
§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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4. DESCRIPTION OF TEST MODES

4.1. Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

19 Charmers are provided for bluetooth							
СН	FREQUENCY	CH	FREQUENCY	CH	FREQUENCY	CH	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.
- 2 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	ANTENNA			
MODE	CHANNEL	CHANNEL	WODULATION	TYPE	PORT			
Bluetooth	0 to 78	0,39,78	GFSK	DH5	MAIN			
	RAI	DIATED EMISSIC	N TEST (ABOVE 1	GHz)				
MODE	AVAILABLE	TESTED	MODULATION	PACKET	ANTENNA			
MODE	CHANNEL	CHANNEL	WODULATION	TYPE	PORT			
Bluetooth	0 to 78	0,39,78	GFSK	DH5	MAIN			

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 E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

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

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5. 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:

	30MHz - 180MHz: +/- 3.37dB
NA course and un containt.	180MHz -417MHz: +/- 3.19dB
Measurement uncertainty (Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB
(i cianzanon : vortical)	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	30MHz - 167MHz: +/- 4.22dB
Management up anythints	167MHz -500MHz: +/- 3.44dB
Measurement uncertainty (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	EQUIPMENT MFR MODEL SERIAL									
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016					
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/15/2015	05/14/2016					
LISN	FCC	FCC-LISN-50/250-25 -2-01	04034	03/13/2015	03/12/2016					
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2014	11/25/2015					

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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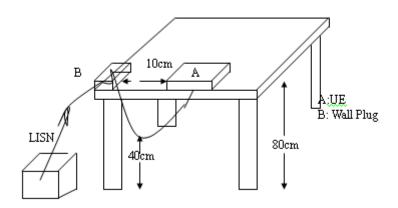
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6.4. Test SET-UP (Block Diagram of Configuration)



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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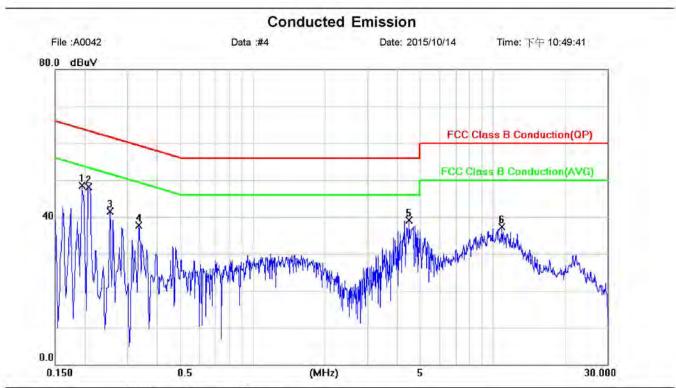




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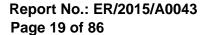
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	BT 4.1 dual mod	de	Test Date:	2015.10.14	
Temperature:	25	Humidity:	70%	Test By:	Tin
Model No.:	N/A				



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1940	48.43	0.06	48.49	63,86	-15.37	peak	
2	*	0.2060	48.06	0.06	48.12	63.37	-15.25	peak	
3		0.2540	41.43	0.06	41.49	61.63	-20.14	peak	
4	L -	0.3340	37.70	0.06	37.76	59.35	-21.59	peak	
5		4.4940	39.04	0.15	39.19	56.00	-16.81	peak	
6		10.9340	36.98	0.30	37.28	60.00	-22.72	peak	

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30.000



0.150

Conducted Emission Date: 2015/10/14 File: A0042 Data:#3 Time: 下午 10:49:02 80.0 dBuV FCC Class B Conduction(QP) FCC Class B Conduction(AVG)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	49.47	0.06	49.53	65.78	-16.25	peak	
2		0.1860	46.81	0.06	46.87	64.21	-17.34	peak	
3	*	0.1980	48.42	0.06	48.48	63.69	-15.21	peak	
4		0.2060	44.77	0.06	44.83	63.37	-18.54	peak	
5		4.5460	38.55	0.15	38.70	56.00	-17.30	peak	
6		12.2180	37.96	0.31	38.27	60.00	-21.73	peak	

(MHz)

5

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7. PEAK OUTPUT POWER MEASUREMENT

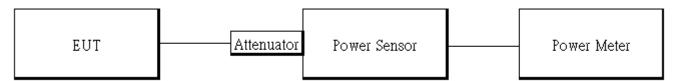
7.1. Standard Applicable

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

2. Measurement Equipment Osea										
Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Power Meter	Anritsu	ML2495A	1005007	12/20/2014	12/19/2015					
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015					
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016					
Low Loss Cable	HUBER+SUHN ER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016					
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016					
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016					
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016					
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016					

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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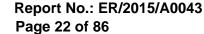


7.5. Measurement Result

1M BR m	node:								
		Peak	Peak	1					
_	Frequency	Output	Output	Limit					
Channel	(MHz)	Power	Power	(mW)					
	(1411 12)	(dBm)	(mW)	(''''					
0	2402.00	8.18	6.577	1000					
39	2441.00	8.39	6.902	1000					
78	2480.00	6.98	4.989	1000					
1M BR mode: Tune up tolerance ± 0.1 dBm									
		Max. output	Max. output						
		power	power						
	Frequency	including	including	Limit					
Channel	(MHz)	tune-up	tune-up	(mW)					
	/	tolerance	tolerance	(,					
		(dBm)	(mW)						
0	2402.00	7.81	6.039	1000					
39			6.081	1000					
78			1000						
2M EDR	mode:			•					
		Peak	Peak						
	Frequency	Output	Output	Limit					
Channel	(MHz)	Power	Power	(mW)					
		(dBm)	(mW)	(*****)					
0	2402.00	8.00	6.310	125					
39	2441.00	7.69	5.875	125					
78	2480.00	6.31	4.276	125					
2M EDR	mode:Tune	up tolerance ± 0.1	dBm						
		Max. output	Max. output						
		power	power						
Channel	Frequency	including	including	Limit					
Giailiei	(MHz)	tune-up	tune-up	(mW)					
	-	tolerance	tolerance	'					
		(dBm)	(mW)						
0	2402.00	7.68	5.861	125					
39	2441.00	7.41	5.508	125					
78	2480.00	6.11	4.083	125					

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3M EDR mode:							
		Peak	Peak				
Channel	Frequency	Output	Output	Limit			
Charmer	(MHz)	Power	Power	(mW)			
		(dBm)	(mW)				
0	2402.00 8.46		7.015	125			
39	2441.00	8.17	6.561	125			
78	2480.00	6.76	4.742	125			
3M EDR	mode:Tune	up tolerance ± 0.1 o	dBm				
		Max. output	Max. output				
		power	power				
Channel	Frequency	including	including	Limit			
Chamber	(MHz)	tune-up	tune-up	(mW)			
		tolerance	tolerance				
		(dBm)	(mW)				
0	2402.00	8.08	6.427	125			
39	2441.00	7.77	5.984	125			
78	2480.00	6.42	4.385	125			

NOTE: cable loss as 1 dB that offsets in the spectrum

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8. 20dB 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	N9010A	MY50420195	12/22/2014	12/21/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

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.
- 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 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. Repeat above procedures until all test default channel is completed

NOTE:

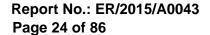
- 1. cable loss as 5.1dB that offsets in the spectrum
- 2. For the plot of bandwidth measurement, the marker of the 20dB BW is arrow-mark

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8.5. Measurement Result

GFSK

<u> </u>		
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
0	2402	0.9249
39	2441	0.9196
78	2480	0.9232

π/4-DQPSK

Channel	Channel	20 dB Bandwidth (MHz)
0	2402	1.35
39	2441	1.35
78	2480	1.34

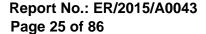
8-DPSK

Channel	Channel	20 dB Bandwidth (MHz)
0	2402	1.34
39	2441	1.27
78	2480	1.34

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GFSK

СН	99% Bandwidth (MHz)	
Low	0.8853	
Mid	0.88157	
High	0.87071	

π/4-DQPSK

СН	99% Bandwidth (MHz)
Low	1.231
Mid	1.227
High	1.224

8-DPSK

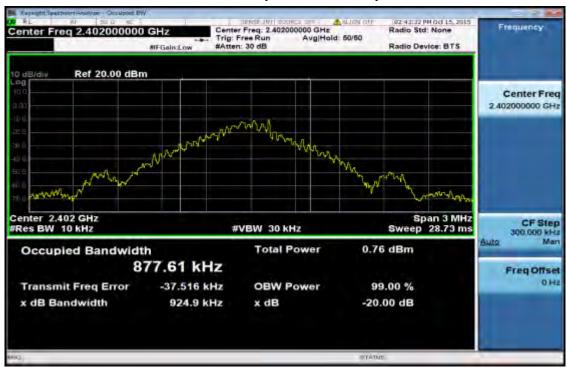
СН	99% Bandwidth (MHz)
Low	1.209
Mid	1.222
High	1.212

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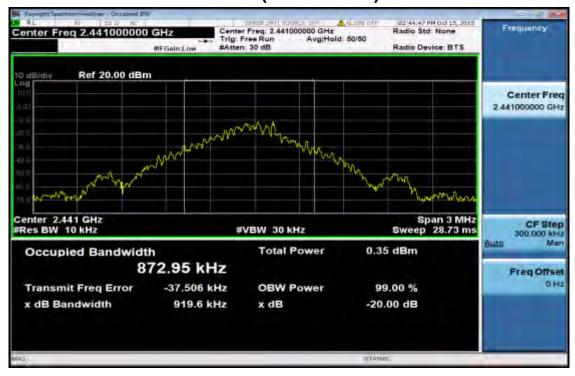
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20dB Band Width Test Data CH-Low (GFSK mode)



20dB Band Width Test Data CH-Mid (GFSK mode)



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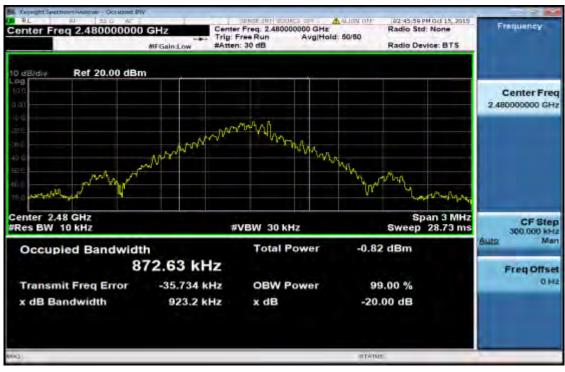
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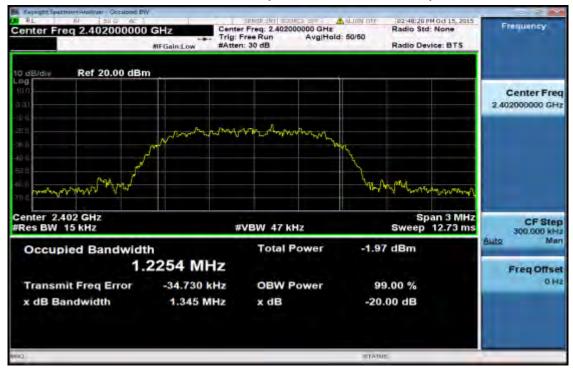
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20dB Band Width Test Data CH-High (GFSK mode)



20dB Band Width Test Data CH-Low (π/4-DQPSK mode)



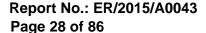
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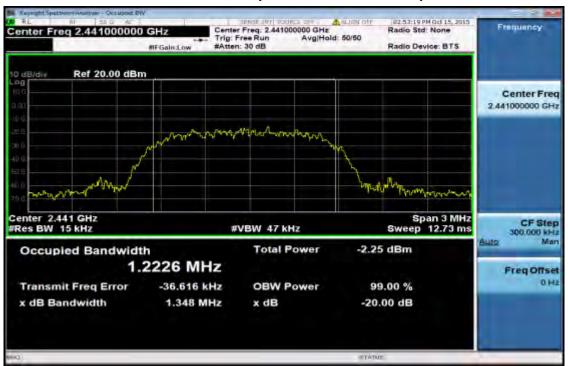
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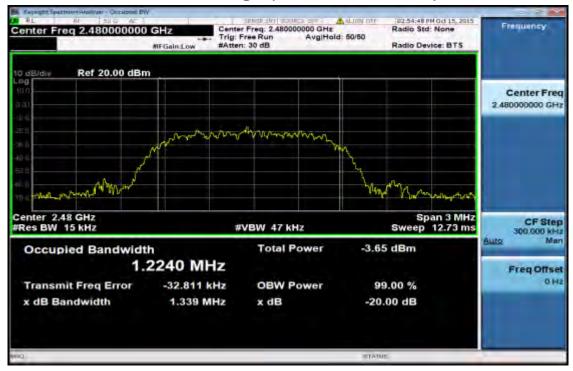




20dB Band Width Test Data CH-Mid (π/4-DQPSK mode)



20dB Band Width Test Data CH-High (π/4-DQPSK mode)



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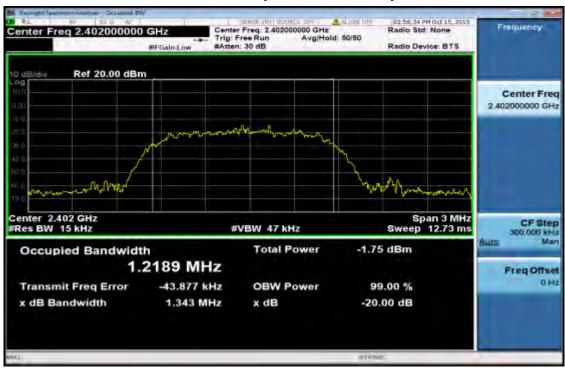
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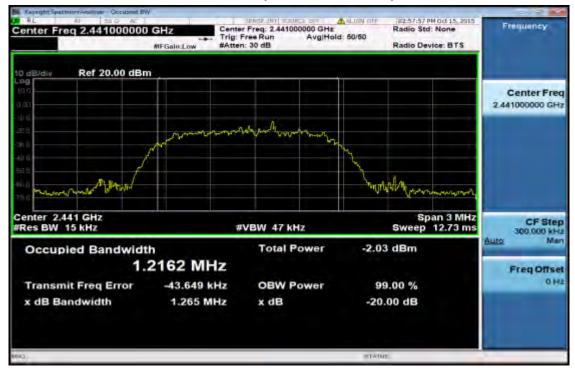
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20dB Band Width Test Data CH-Low (8-DPSK mode)



20dB Band Width Test Data CH-Mid (8-DPSK mode)



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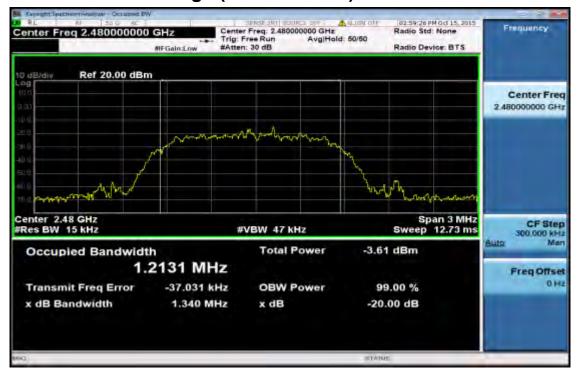
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20dB Width Test Data CH-High (8-DPSK mode)



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99% Band Width Test Data CH-Low (GFSK mode)



99% Band Width Test Data CH-Mid (GFSK mode)



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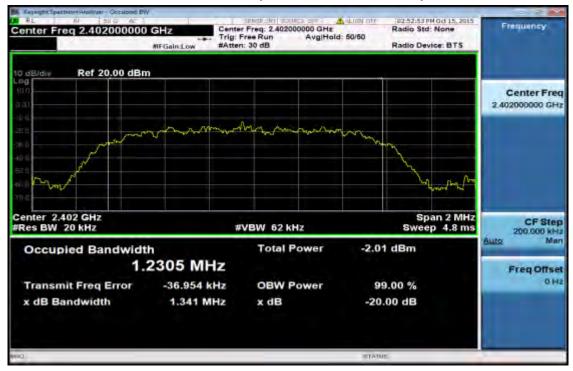
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99% Band Width Test Data CH-High (GFSK mode)



99% Band Width Test Data CH-Low (π/4-DQPSK mode)



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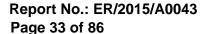
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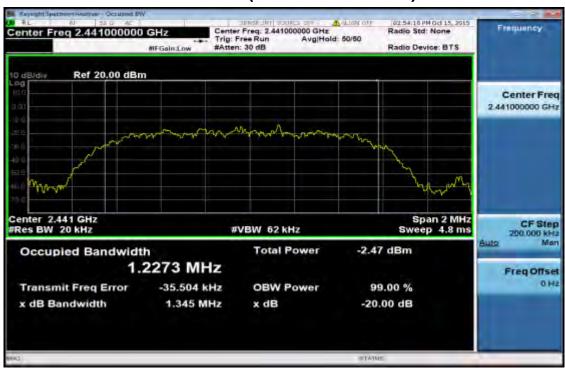
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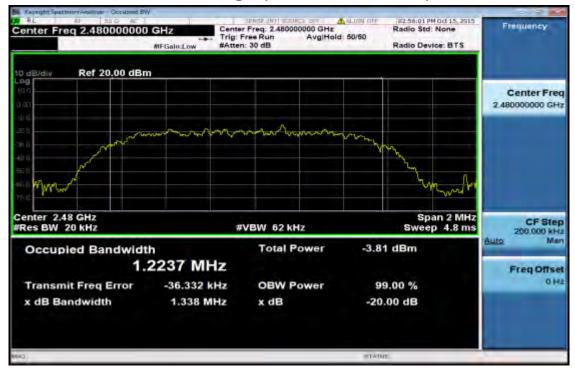




99% Band Width Test Data CH-Mid (π/4-DQPSK mode)



99% Band Width Test Data CH-High (π/4-DQPSK mode)



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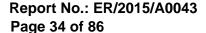
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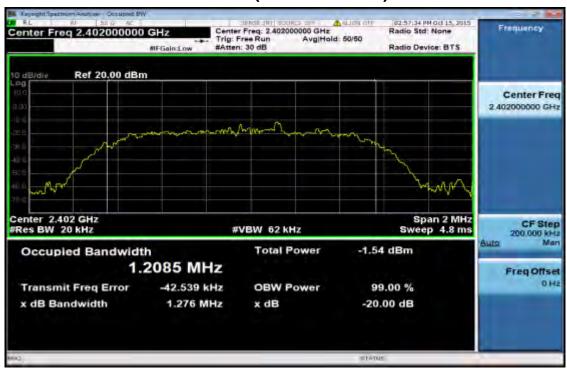
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f (886-2) 2298-0488

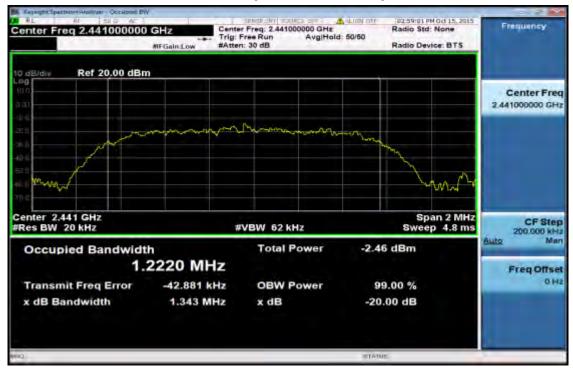




99% Band Width Test Data CH-Low (8-DPSK mode)



99% Band Width Test Data CH-Mid (8-DPSK mode)



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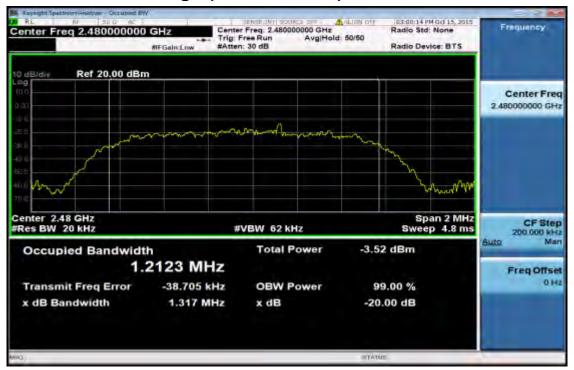
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99% Width Test Data CH-High (8-DPSK mode)



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9. CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

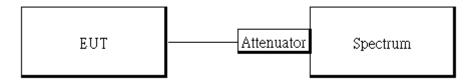
9.1. Standard Applicable

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).

9.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

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.
- 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=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.
- 6. 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	S .	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.

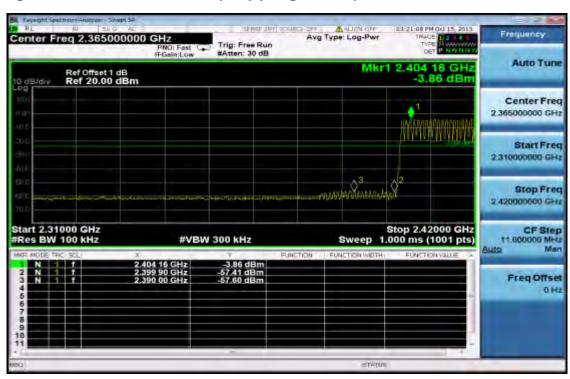
- 1. Cable loss as 1dB that offsets in the spectrum
- 2. The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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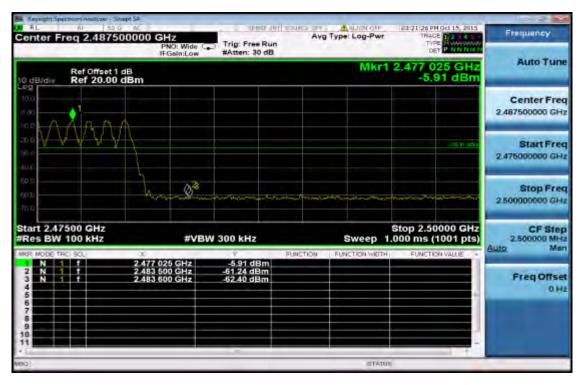
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Band Edges Test Data CH-Low (Hopping mode)



Band Edges Test Data CH-High



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



Band Edges Test Data CH-High



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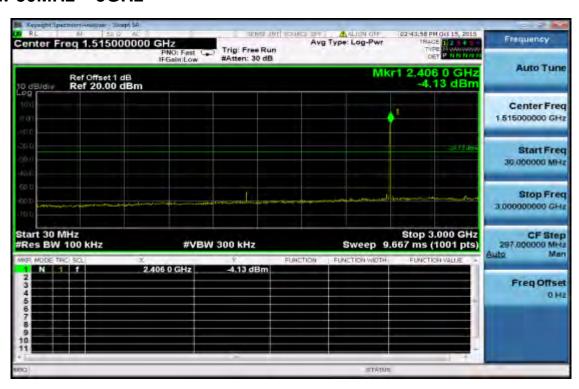
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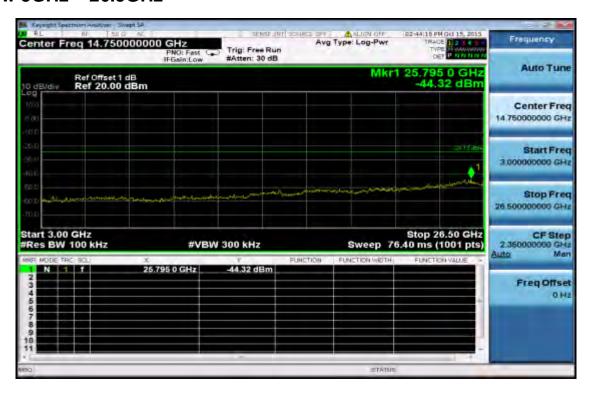
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Conducted Spurious Emission Measurement Result Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz



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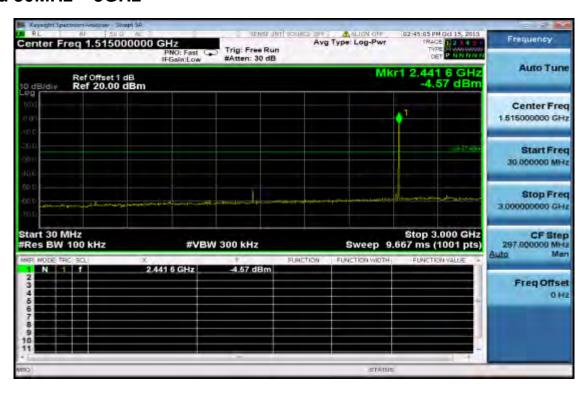
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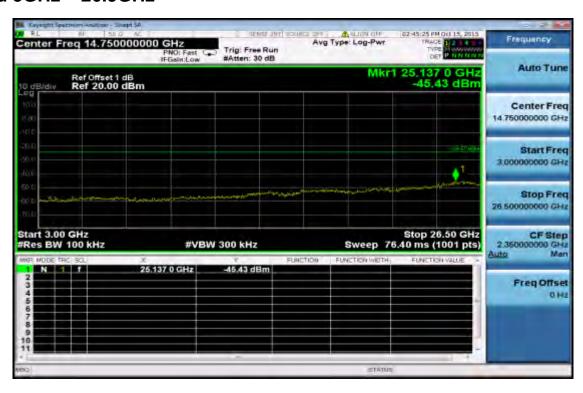
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



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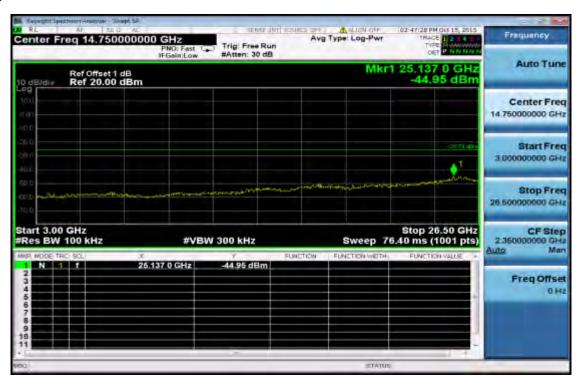
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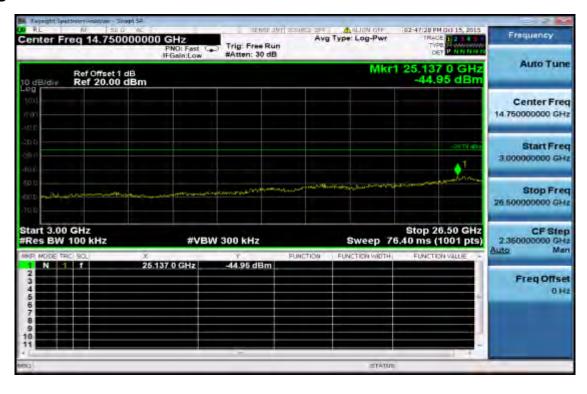
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Ch High 30MHz - 3GHz



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 limit as below.

And according to §15.33(a) (1), 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.
- Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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10.2. Measurement Equipment Used

	966 Chamber										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.						
TYPE		NUMBER	NUMBER	CAL.							
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016						
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016						
EXA Spectrum An-	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015						
Spectrum Analyzer	R&S	FSV-30	101398	09/23/2015	09/22/2016						
Loop Antenna	ETS.LINDGREN	6502	00143303	12/9/2014	12/08/2015						
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015						
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016						
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015						
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2015	01/01/2016						
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016						
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016						
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	01/02/2015	01/01/2016						
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016						
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	060776	N.C.R	N.C.R						
Low Loss Cable	Huber Suhner	966_Rx	9	01/02/2015	01/01/2016						
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016						

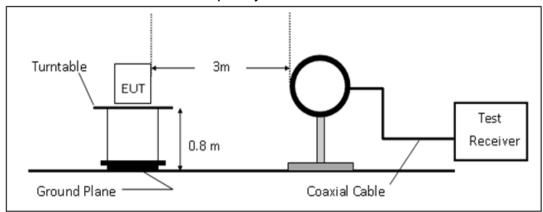
NOTE: N.C.R refers to Not Calibrated Required.

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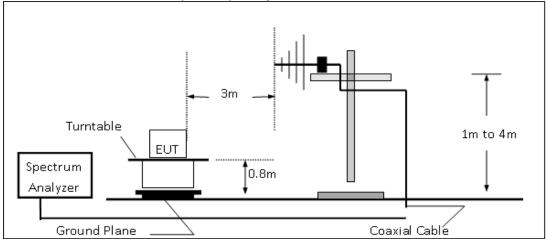


10.3. **Test SET-UP**

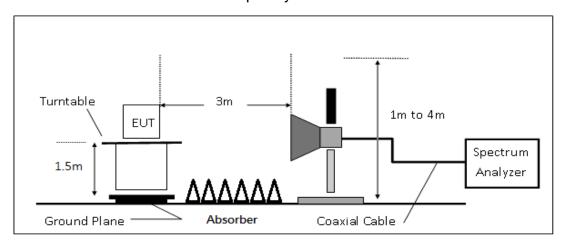
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 0.8m 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	FS = Field Strength	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:

 $\mbox{\bf ``F''}: denotes \ Fundamental \ Frequency. \ ; \ \mbox{\bf ``H''}: denotes \ Harmonic \ Frequency.$

"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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নি স স প অপ ্যাম্বভিক ছে গুলু লাল্ডাক ভাছু লাল্ডাক ভাছু লাল্ডাক ভাছু লাভ্ডাক বিদ্যালয় কৰিছিল। স্থান বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। স্থান বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যা Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

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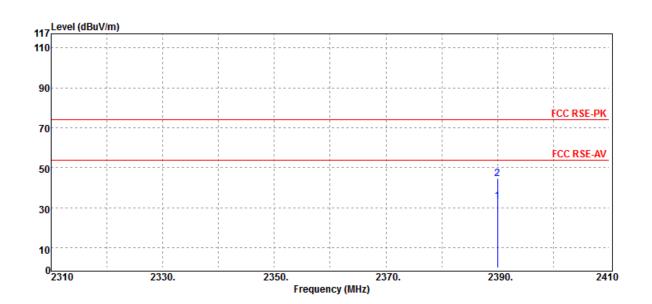
Radiated Band Edge Measurement Result: (Hopping Mode)

Operation Band :EDR+hopping Test Date :2015-10-14

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

Operation Mode :Band Edge LOW Engineer :Burly

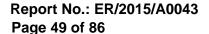
EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



	Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	2390.00	E	Average	28.01	5.16	33.17	54.00	-20.83
	2390.00	Е	Peak	39.49	5.16	44.65	74.00	-29.35

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

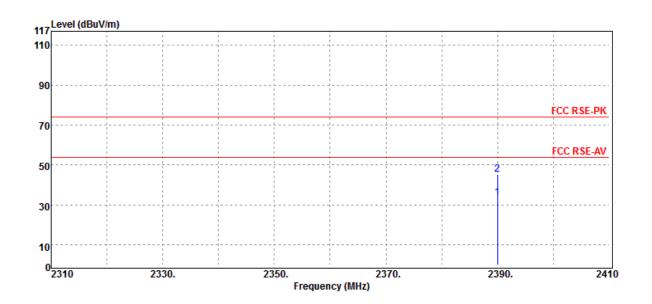
:EDR+hopping :2402 MHz :Band Edge LOW

:E2 Plane

Test Date :2015-10-14 Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2390.00	Е	Average	28.47	5.16	33.63	54.00	-20.37
2390.00	Е	Peak	40.11	5.16	45.27	74.00	-28.73

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

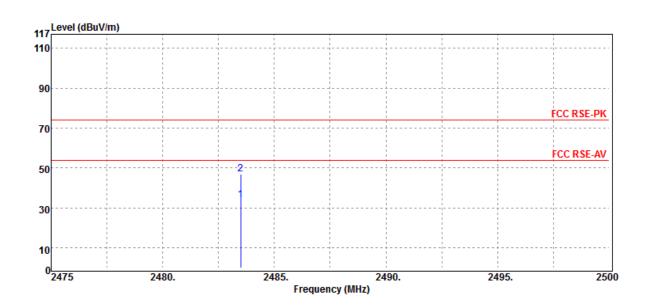
:EDR+hopping :2480 MHz :Band Edge HIGH

:E2 Plane

Test Date :2015-10-14 Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:VERTICAL Measurement Antenna Pol.



	Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	2483.50	Е	Average	28.10	6.01	34.11	54.00	-19.89
	2483.50	Е	Peak	41.05	6.01	47.06	74.00	-26.94

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

:EDR+hopping :2480 MHz :Band Edge HIGH

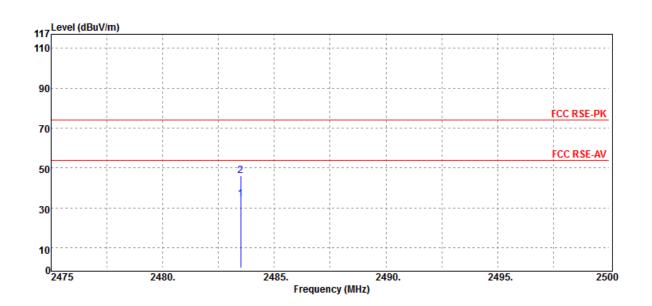
:E2 Plane

Test Date :2015-10-14

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2483.50	Е	Average	28.30	6.01	34.31	54.00	-19.69
2483.50	Е	Peak	40.07	6.01	46.08	74.00	-27.92

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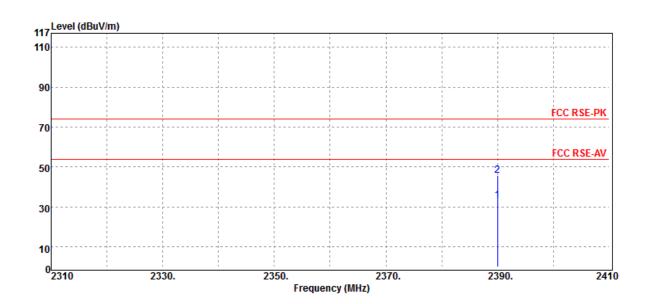
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10.6.2 Radiated Emission – Band Edge (Non-Hopping Mode):

Operation Band Test Date :EDR :2015-10-14 Fundamental Frequency :2402 MHz Temp./Humi. :23 deg_C / 62 RH

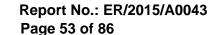
Operation Mode :Band Edge LOW Engineer :Burly

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



	Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@3m		
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
	2390.00	E	Average	27.86	5.16	33.02	54.00	-20.98	
	2390.00	Е	Peak	40.74	5.16	45.90	74.00	-28.10	

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Operation Band Fundamental Frequency **Operation Mode**

:EDR :2402 MHz

:Band Edge LOW

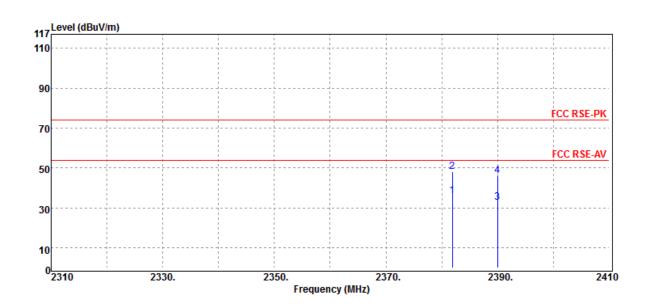
EUT Pol.

:E2 Plane

Test Date :2015-10-14 Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2381.90	S	Average	30.94	5.14	36.08	54.00	-17.92
2381.90	S	Peak	43.20	5.14	48.34	74.00	-25.66
2390.00	Е	Average	27.76	5.16	32.92	54.00	-21.08
2390.00	Е	Peak	41.12	5.16	46.28	74.00	-27.72

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Operation Band Fundamental Frequency **Operation Mode**

:EDR :2480 MHz

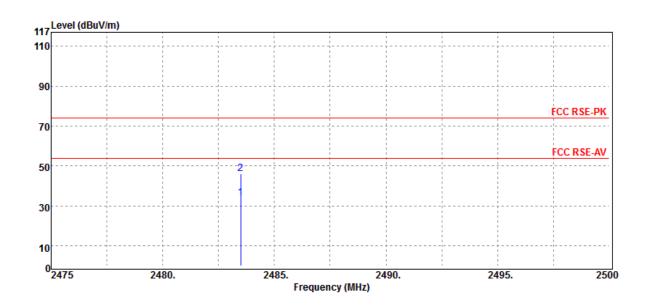
:Band Edge HIGH

EUT Pol. :E2 Plane **Test Date** :2015-10-14

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Average	28.07	6.01	34.08	54.00	-19.92
2483.50	Е	Peak	40.10	6.01	46.11	74.00	-27.89

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Operation Band Fundamental Frequency **Operation Mode**

:EDR :2480 MHz

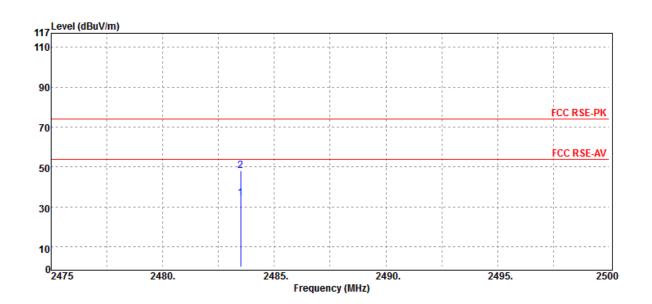
:Band Edge HIGH

EUT Pol. :E2 Plane **Test Date** :2015-10-14

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2483.50	Е	Average	28.36	6.01	34.37	54.00	-19.63
2483.50	Е	Peak	42.09	6.01	48.10	74.00	-25.90

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Radiated Spurious Emission Measurement Result:

For Frequency form 30MHz to 1000MHz

Operation Band :BR

Fundamental Frequency

Operation Mode EUT Pol.

:2402 MHz :TX LOW

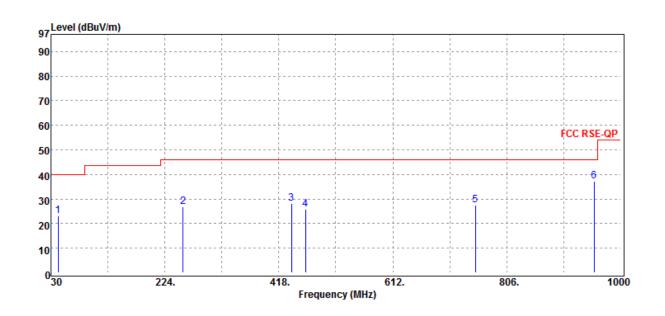
:E2 Plane

Test Date Temp./Humi. :2015-10-14

:23 deg_C / 62 RH

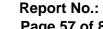
Engineer :Burly

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
42.61	S	QP	32.66	-9.55	23.11	40.00	-16.89
255.04	S	Peak	36.47	-9.72	26.75	46.00	-19.25
439.34	S	Peak	34.00	-5.84	28.16	46.00	-17.84
463.59	S	Peak	31.11	-5.39	25.72	46.00	-20.28
752.65	S	Peak	26.93	0.54	27.47	46.00	-18.53
954.41	S	Peak	33.78	3.49	37.27	46.00	-8.73

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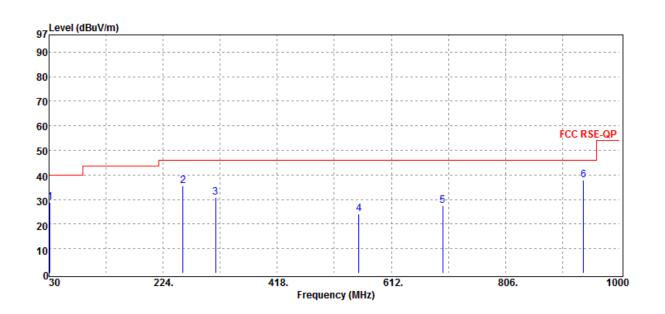
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Operation Band :BR **Fundamental Frequency** :2402 MHz **Operation Mode** :TX LOW EUT Pol. :E2 Plane

:2015-10-14 **Test Date** Temp./Humi. :23 deg_C / 62 RH

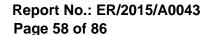
Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
31.94	S	Peak	39.00	-10.22	28.78	40.00	-11.22
257.95	S	Peak	45.13	-9.63	35.50	46.00	-10.50
313.24	S	Peak	38.52	-7.56	30.96	46.00	-15.04
556.71	S	Peak	27.93	-3.93	24.00	46.00	-22.00
699.30	S	Peak	28.61	-1.06	27.55	46.00	-18.45
938.89	S	Peak	34.99	2.90	37.89	46.00	-8.11

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Operation Band :BR

Fundamental Frequency :2441 MHz **Operation Mode** :TX MID

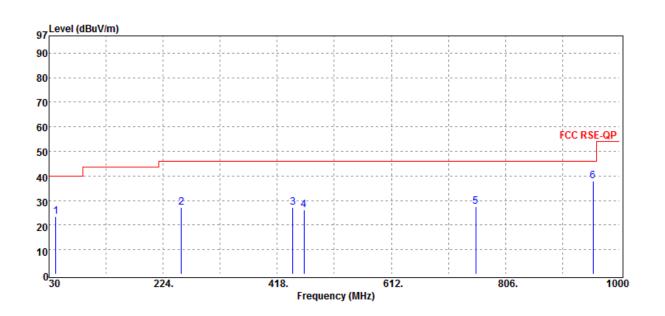
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

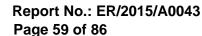
Engineer :Burly

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
41.64	S	QP	33.13	-9.63	23.50	40.00	-16.50
255.04	S	Peak	36.92	-9.72	27.20	46.00	-18.80
444.19	S	Peak	32.99	-5.78	27.21	46.00	-18.79
463.59	S	Peak	31.41	-5.39	26.02	46.00	-19.98
755.56	S	Peak	26.84	0.80	27.64	46.00	-18.36
954.41	S	Peak	34.39	3.49	37.88	46.00	-8.12

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Operation Band :BR

Fundamental Frequency :2441 MHz **Operation Mode** :TX MID

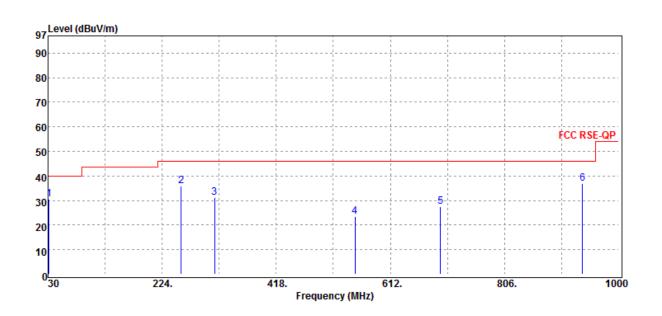
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



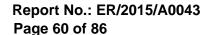
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
31.94	S	Peak	40.91	-10.22	30.69	40.00	-9.31
256.01	S	Peak	45.45	-9.69	35.76	46.00	-10.24
313.24	S	Peak	38.72	-7.56	31.16	46.00	-14.84
551.86	S	Peak	27.49	-4.04	23.45	46.00	-22.55
697.36	S	Peak	28.58	-0.96	27.62	46.00	-18.38
938.89	S	Peak	34.00	2.90	36.90	46.00	-9.10

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台灣檢驗科技股份有限公司

f (886-2) 2298-0488





Operation Band :BR

Fundamental Frequency :2480 MHz **Operation Mode** :TX HIGH

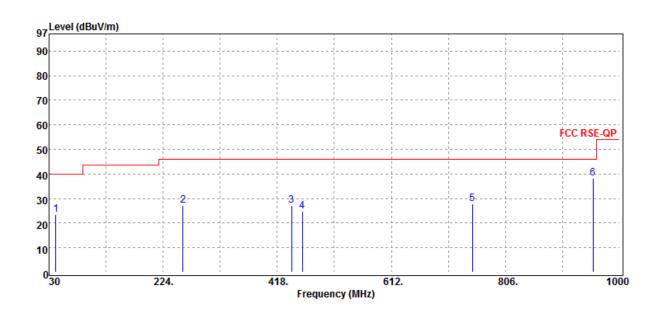
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
41.64	S	QP	33.27	-9.63	23.64	40.00	-16.36
257.95	S	Peak	36.82	-9.63	27.19	46.00	-18.81
442.25	S	Peak	32.85	-5.81	27.04	46.00	-18.96
460.68	S	Peak	30.42	-5.47	24.95	46.00	-21.05
749.74	S	Peak	27.74	0.27	28.01	46.00	-17.99
954.41	S	Peak	34.73	3.49	38.22	46.00	-7.78

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Operation Band :BR

Fundamental Frequency :2480 MHz **Operation Mode** :TX HIGH

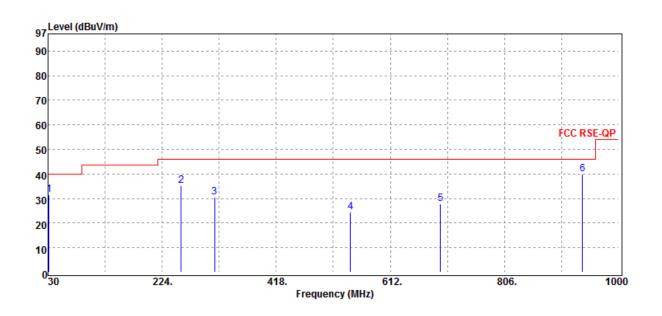
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
31.94	S	Peak	41.87	-10.22	31.65	40.00	-8.35
256.01	S	Peak	45.03	-9.69	35.34	46.00	-10.66
313.24	S	Peak	38.23	-7.56	30.67	46.00	-15.33
544.10	S	Peak	28.34	-4.01	24.33	46.00	-21.67
697.36	S	Peak	28.83	-0.96	27.87	46.00	-18.13
938.89	S	Peak	36.97	2.90	39.87	46.00	-6.13

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Radiated Spurious Emission Measurement Result:

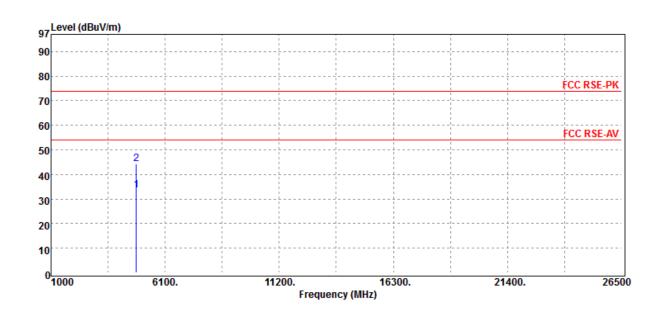
For Frequency above 1 GHz

Operation Band Test Date :2015-10-14 :BR

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

Engineer Operation Mode :TX LOW :Burly

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
4804.00	Н	Average	23.84	9.56	33.40	54.00	-20.60	
4804.00	Н	Peak	34.90	9.56	44.46	74.00	-29.54	

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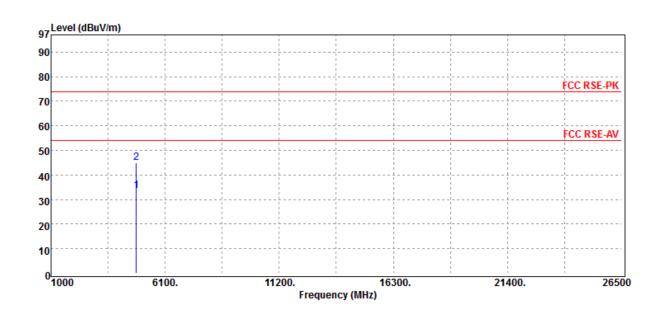


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:2015-10-14 **Operation Band** :BR **Test Date**

Fundamental Frequency :2402 MHz Temp./Humi. :23 deg_C / 62 RH **Operation Mode** :TX LOW Engineer :Burly

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
4804.00	Н	Average	23.94	9.56	33.50	54.00	-20.50	
4804.00	Н	Peak	35.36	9.56	44.92	74.00	-29.08	

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Operation Band :BR

Fundamental Frequency :2441 MHz **Operation Mode** :TX MID

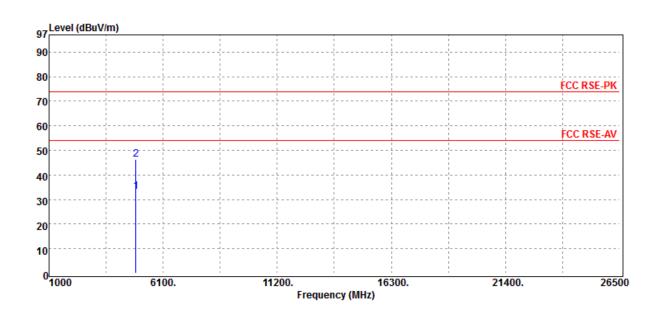
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4882.00	Н	Average	23.50	9.85	33.35	54.00	-20.65
4882.00	Н	Peak	36.36	9.85	46.21	74.00	-27.79

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Operation Band :BR

Fundamental Frequency :2441 MHz **Operation Mode** :TX MID

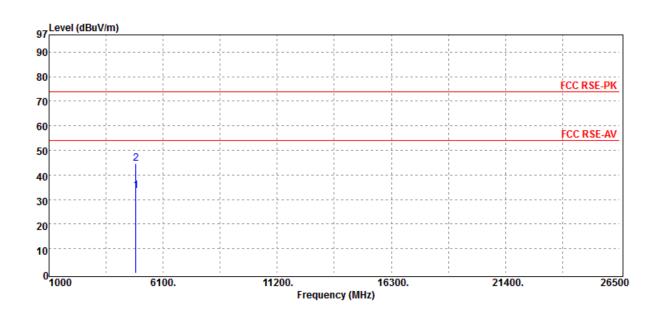
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4882.00	Н	Average	23.60	9.85	33.45	54.00	-20.55
4882.00	Н	Peak	34.88	9.85	44.73	74.00	-29.27

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Operation Band :BR

Fundamental Frequency :2480 MHz **Operation Mode** :TX HIGH

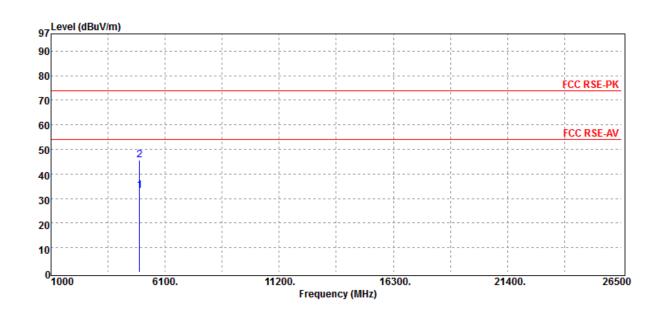
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Н	Average	23.51	9.86	33.37	54.00	-20.63
4960.00	Н	Peak	35.72	9.86	45.58	74.00	-28.42

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Operation Band :BR

Fundamental Frequency :2480 MHz **Operation Mode** :TX HIGH

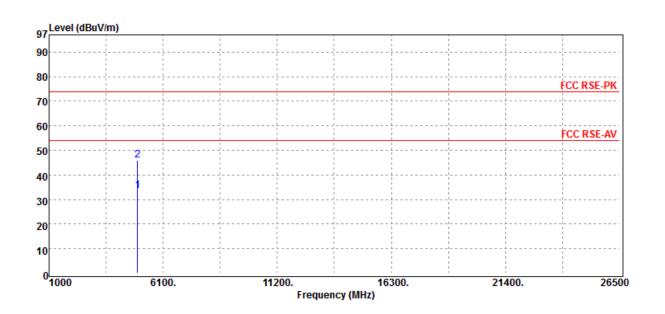
EUT Pol. :E2 Plane

:2015-10-14 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Burly

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Н	Average	23.56	9.86	33.42	54.00	-20.58
4960.00	Н	Peak	35.98	9.86	45.84	74.00	-28.16

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FREQUENCY SEPARATION

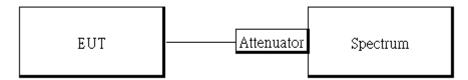
10.8. Standard Applicable

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.

10.9. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

10.10. **Test Set-up**



10.11. **Measurement Procedure**

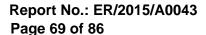
- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum 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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10.12. **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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11. NUMBER OF HOPPING FREQUENCY

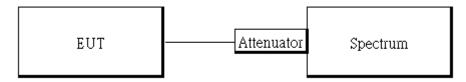
11.1. Standard Applicable

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

11.2. Measurement Equipment Used

	nzi modearomoni Equipmoni 600a					
Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016	
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016	

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 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.

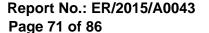
11.5. Measurement Result

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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নি স স প অপ ্যাম্বভিক ছে গুলু লাল্ডাক ভাছু লাল্ডাক ভাছু লাল্ডাক ভাছু লাভ্ডাক বিদ্যালয় কৰিছিল। স্থান বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। স্থান বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল বিদ্যালয় কৰিছিল। বিদ্যালয় কৰিছিল বিদ্যা Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law



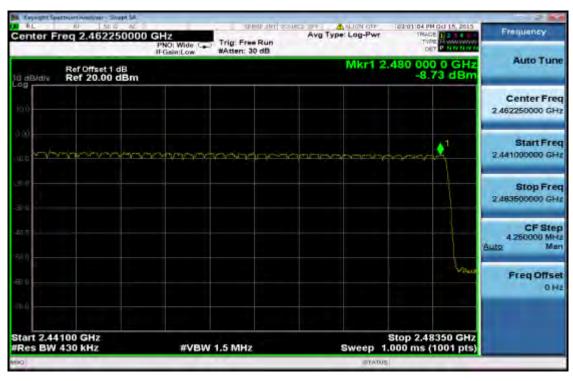


Channel Number

2.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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12. TIME OF OCCUPANCY (DWELL TIME)

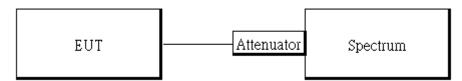
12.1. Standard Applicable

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.

12.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

12.3. Test Set-up



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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 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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12.5. Tabular Result of the Measurement

GFSK (1Mbps)

GI GK (THIDPS)					
Channel	PACKET TYPE	Measurement Result	Limit		
Onamic	AONELLIILE	(ms)	(ms)		
	DH1	120.64	400ms		
0	DH3	262.72	400ms		
	DH5	307.95	400ms		
	DH1	121.60	400ms		
39	DH3	262.72	400ms		
	DH5	309.87	400ms		
	DH1	125.44	400ms		
78	DH3	264.64	400ms		
	DH5	309.87	400ms		

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	126.40	400ms
	DH3	262.08	400ms
	DH5	309.87	400ms

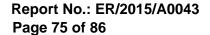
8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	126.40	400ms
39	DH3	262.72	400ms
	DH5	309.87	400ms

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

GFSK (1Mbps):

	1/					
CH Low	DH1 time slot =	0.377 *	(1600/2/79) *	31.6 =	120.64	(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 =	0.380 *	(1600/2/79) *	31.6 =	121.60	(ms)
	DH3 time slot =	1.642 *	(1600/4/79) *	31.6 =	262.72	(ms)
	DH5 time slot =	2.905 *	(1600/6/79) *	31.6 =	309.87	(ms)
CH High	DH1 time slot = DH3 time slot = DH5 time slot =	0.392 * 1.654 * 2.905 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 = 31.6 =	125.44 264.64 309.87	(ms)
	DITO time slot =	2.903	(1000/0/19)	31.0 =	309.07	(1115)
π/4 -DQPSI	K (2Mbps):					
CH Mid	2DH1 time slot=	0.395 *	(1600/2/79) *	31.6 =	126.40	(ms)
	2DH3 time slot=	1.638 *	(1600/4/79) *	31.6 =	262.08	(ms)
	2DH5 time slot=	2.905 *	(1600/6/79) *	31.6 =	309.87	(ms)
8-DPSK (3N	/lbps):					
CH Mid	3DH1 time slot= 3DH3 time slot= 3DH5 time slot=	0.395 * 1.642 * 2.905 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 =	126.40 262.72 309.87	(ms) (ms) (ms)

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

GFSK (1Mbps):

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

π/4 -DQPSK (2Mbps):

(800/6/20)*8 =2DH5 time slot = 2.905 154.93 (ms) (ms)

8-DPSK (3Mbps):

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

12.6. **Measurement Result**

Note: Refer to next page for plots.

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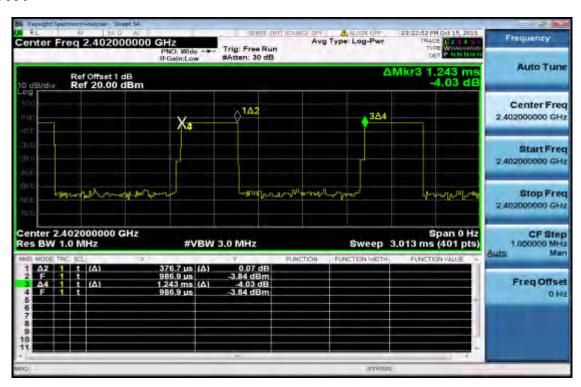
> t (886-2) 2299-3279 f (886-2) 2298-0488

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd.



CH-Low DH1



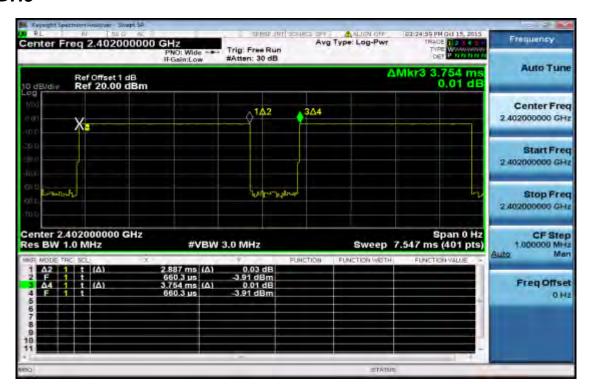
DH3



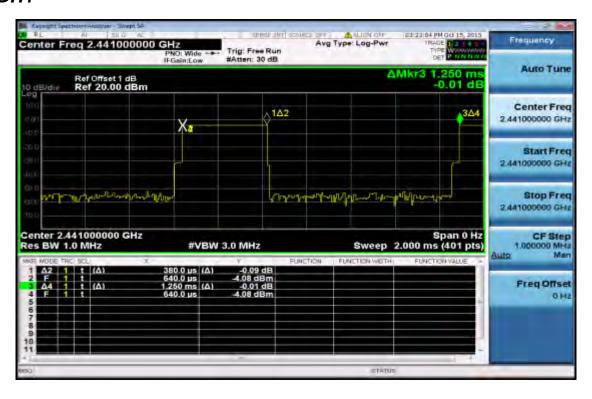
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DH₅



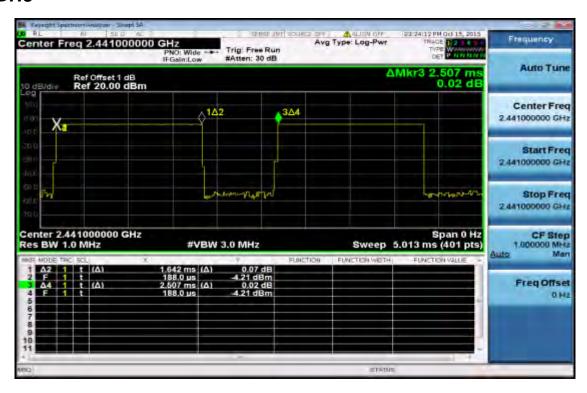
CH-Mid DH1



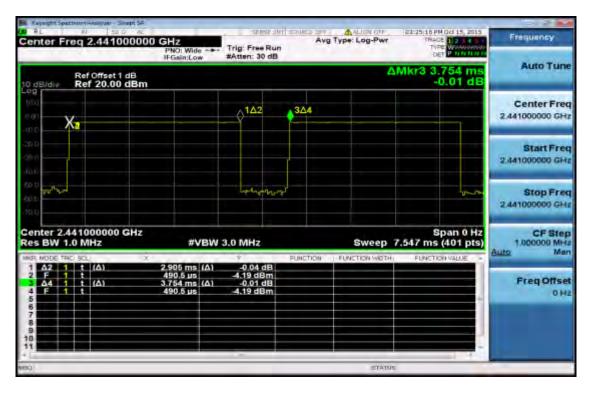
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DH3



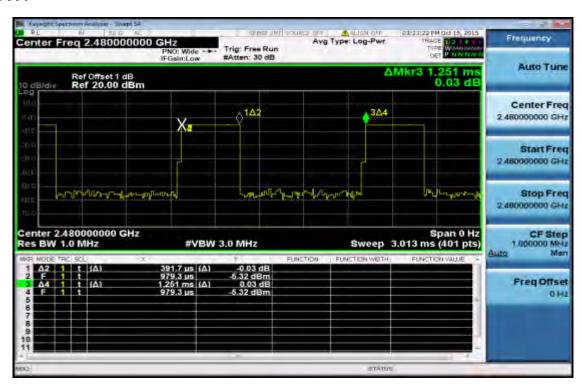
DH₅



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CH-High DH1



DH3

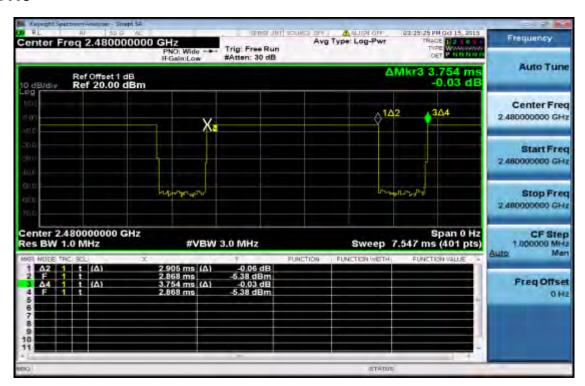


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DH₅



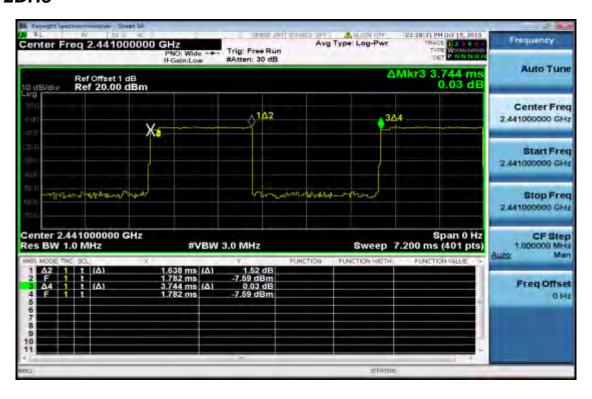
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CH-Mid 2DH1



2DH3



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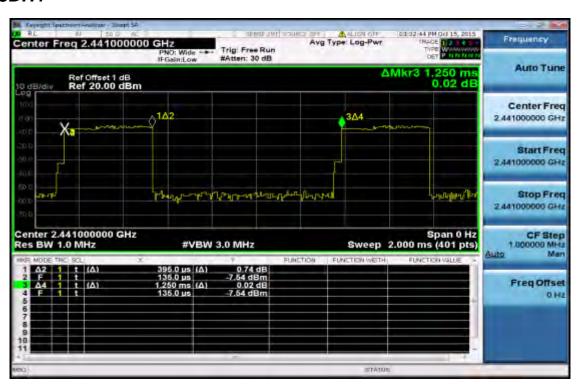
2DH5



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CH-Mid 3DH1



3DH3



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3DH5



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13. ANTENNA REQUIREMENT

13.1. 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.

13.2. Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector 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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