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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Smart Watch Product Name:

GC **Brand Name:**

T3200 Model No.:

Model Difference: N/A

FCC ID: **2AFSYT3200**

IC: 20610-T3200

Report No.: ER/2017/40449

Issue Date: Jun. 09, 2017

FCC Rule Part: §15.247, Cat: DTS

RSS-247 issue 2 Feb. 2017 IC Rule:

Sequel AG **Prepared for:**

General-Guisan- Strasse 8, 5th Floor, Zug, Swit-

zerland 6300

Prepared by: SGS Taiwan Ltd.

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

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VERIFICATION OF COMPLIANCE

Applicant: Sequel AG

General-Guisan- Strasse 8, 5th Floor, Zug, Switzerland 6300

Product Name: Smart Watch

Brand Name: GC Model No.: T3200 **Model Difference:** N/A

FCC ID: 2AFSYT3200 IC: 20610-T3200 **Report Number:** ER/2017/40449

Date of test: Apr. 25, 2017 ~ Jun. 05, 2017

Date of EUT Received: Apr. 25, 2017

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:	Louis Chen	Date:	Jun. 09, 2017	
Prepared By:	Louis Chen / Engineer	Date:	Jun. 09, 2017	
Approved By:	Karen Huang / Clerk Jim Chang / Asst Manager	Date:	Jun. 09, 2017	_

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/40449	Rev.00	Initial creation of document	Jun. 09, 2017

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t (886-2) 2299-3279

f (886-2) 2298-0488

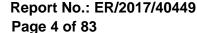




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GENERAL INFORMATION

1.1 Product description

General:

Jeneral.	T		
Product Name:	Smart Watch		
Brand Name:	GC		
Model No.:	T3200		
Model Difference:	N/A		
Product SW/HW version:	GLOWLIGHT.00020.328386.17181.CERT / 1000		
Radio SW/HW version:	N/A / N/A		
Test SW Version:	N/A		
RF power setting in TEST SW:	N/A		
Cradle w/ cable:	Model No.: SS-0473-02M-CA01, Supplier: GC		
D O I	3.8Vdc from Rechargeable Li-ion Battery or 5Vdc from USB Port		
Power Supply:	Battery:	Model No.: APP00237, Supplier: APACK TECHNOLOGY CO LTD	

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Type of Emission 99%	Modulation Technology		
11b/g	2412-2462	11	b: 18.94dBm g: 18.63dBm	b:12M6G1D g:16M7D1D	DSSS, OFDM		
11n	HT20 2412-2462	11	HT20:18.77dBm	HT20:17M8D1D	OFDM		
Antenna Designation:		Loop Antenna, Gain: -6.76dBi					
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM					
Transition Rate:		802.11 g:	2.11 b: 1/2/5.5/11 Mbps 2.11 g: 6/9/12/18/24/36/48/54 Mbps 2.11 n_20MHz: 6.5 – 72.2Mbps				

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

Canada RSS-247 issue 2 Feb. 2017

Canada RSS-Gen issue 4 Nov. 2014

KDB648474 D03 Wireless Chargers Battery Cover

ANSI C63.10:2013

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

1.3 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 Registration Numbers are: 509634

Canada Registration Number: 4620A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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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 plane. 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.

Radiated Emissions 2.3.2

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 plane. 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 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 11dB.

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2.5 Configuration of Tested System Fig. 2-1 Radiated Emission Conducted (Antenna Port) Configuration



Fig 2-3 Conducted (AC power line) Configuration



Fig 2-2 Conducted Configuration

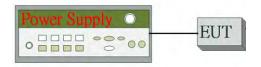


Table 2-1 Equipment Used in Tested System

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

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SUMMARY 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)(3)	RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission 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(e)	RSS-247 §5.2(2)	Power Spectral Density	Compliant
§15.203 §15.247(b)	RSS- Gen §8.3	Antenna Requirement	Compliant

DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

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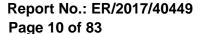
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4.2 The Worst Test Modes and Channel Details

- 1. 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.
- 3. 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 CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)			
802.11g	1 to 11	1,6,11	OFDM	6			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
802.11b	1 to 11	1, 6, 11	DSSS	1		
802.11g	1 to 11	1, 6, 11	OFDM	6		
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0		

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
802.11b	1 to 11	1, 6, 11	DSSS	1		
802.11g	1 to 11	1, 6, 11	OFDM	6		
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0		

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
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 range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Lin dB(nits (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

6.2 Measurement Equipment Used

	Conducted Emission Test Site											
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017							
LISN	SCHWARZB ECK	NSLK 8127	8127-649	05/16/2016	05/15/2017							
LISN	MESS TEC	FCC-LISN-50/250-25- 2-01	4034	05/16/2016	05/15/2017							
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017							

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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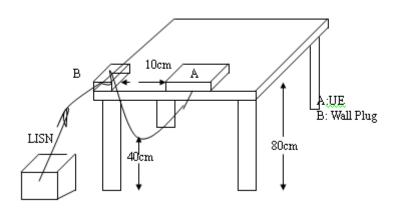
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^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.4 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 plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

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

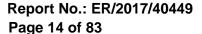
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode: Operation mode Test By: Louis Temperature: 20 7 Site Conduction Room Phase: L1 Humidity: 58 % Limit: FCC Class B Conduction(QP) AC 110V/60Hz Power. Mode: Operation mode Note: Conducted Emission Date: 2017/5/2 File WEGWI Data #7 Time: ____ 11:40:45 100.0 dBuV FCC Class B Conduction(QP) 50 0.0 30.000 0.150 0.5 (MHz) 5 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 1 0.1780 47.61 0.10 47.71 64.58 -16.87 peak 2 0.2380 47.00 0.10 47 10 62:17 -15.07peak 3 0.3460 41.70 0.11 41.81 59.06 -17.25 peak 4 0.5180 39.61 0.12 39.73 56.00 -16.27peak 5 5.0380 33.69 0.32 34.01 60.00 -25.99 peak 6 18.8540 0.44 36.89 36.45 60.00 -23.11 peak

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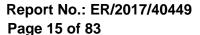
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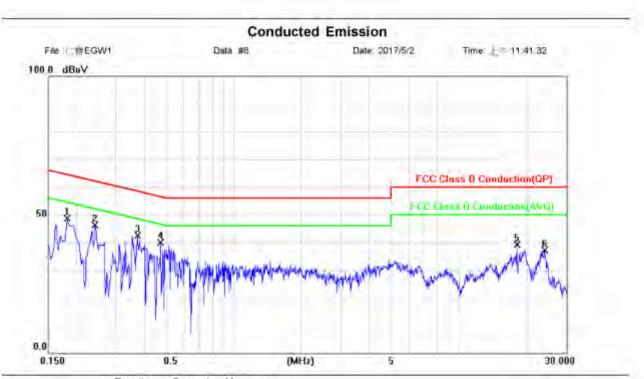
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Note:

Site Conduction Room Phase: Temperature: 20 T Limit: FCC Class B Conduction(QP) Power AC 110V/60Hz Humidity: 58 % Mode: Operation mode



MHz	dBuV	dB					
0.4000		uu.	dBuV	dBuV	dB	Detector	Comment
0.1820	48.46	0.08	48.54	64.39	-15.85	peak	
0.2420	45 99	0.08	46.07	62.03	-15.96	peak	
0.3740	42.34	0.10	42.44	58.41	-15.97	peak	
0.4740	39.76	0.10	39.86	56.44	-16.58	peak	
18.0540	38.71	0.44	39.15	60.00	-20.85	peak	
24.0420	36.57	0.46	37.03	60.00	-22,97	peak	
	0.3740 0.4740 18.0540	0.3740 42.34 0.4740 39.76 18.0540 38.71	0.3740 42.34 0.10 0.4740 39.76 0.10 18.0540 38.71 0.44	0.3740 42.34 0.10 42.44 0.4740 39.76 0.10 39.86 18.0540 38.71 0.44 39.15	0.3740 42.34 0.10 42.44 58.41 0.4740 39.76 0.10 39.86 56.44 18.0540 38.71 0.44 39.15 60.00	0.3740 42.34 0.10 42.44 58.41 -15.97 0.4740 39.76 0.10 39.86 56.44 -16.58 18.0540 38.71 0.44 39.15 60.00 -20.85	0.3740 42.34 0.10 42.44 58.41 -15.97 peak 0.4740 39.76 0.10 39.86 56.44 -16.58 peak 18.0540 38.71 0.44 39.15 60.00 -20.85 peak

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DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz.
- 4. Detector = Peak

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	97.74	0.10
802.11g	87.15	0.60
802.11n_20	86.33	0.64

Duty Cycle Factor: $10 * \log(1/0.9774) = 0.1$ Duty Cycle Factor: $10 * \log(1/0.8715) = 0.6$ Duty Cycle Factor: $10 * \log(1/0.8633) = 0.64$

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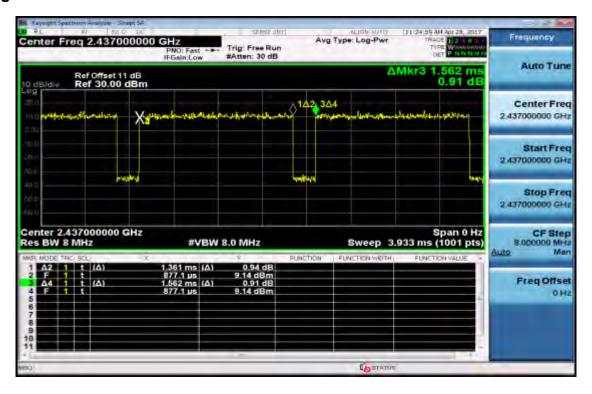
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result 802.11 b



802.11 g



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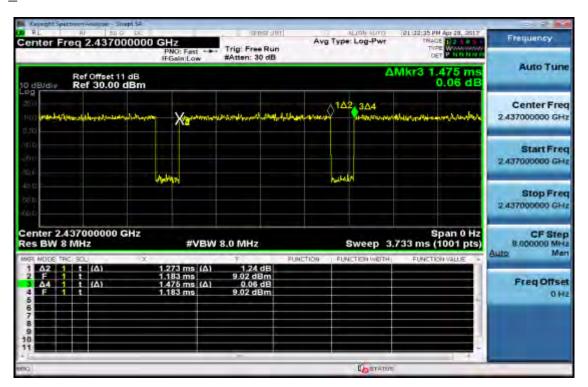
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802.11 n_20 MHz



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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

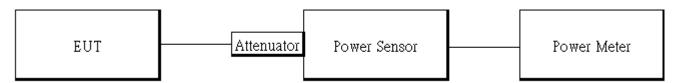
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Measurement Equipment Used

	Conducted Emission Test Site											
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017							
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017							
EXA Spectrum Ana- lyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018							
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018							
Coaxial Cable	HUBER+SUH NER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018							
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018							
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018							
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017							

8.3 Test Set-up

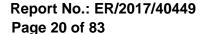
Power Meter:



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8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guid-
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

8.5 Measurement Result

802.1	1b Main					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	18.94	78.34	1 Watt = 30.00 dBm	PASS
6	2437	1	18.68	73.79	1 Watt = 30.00 dBm	PASS
11	2462	1	18.12	64.86	1 Watt = 30.00 dBm	PASS
802.1	1b Main					
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	1	15.85	38.46	1 Watt = 30.00 dBm	PASS
6	2437	1	15.67	36.90	1 Watt = 30.00 dBm	PASS
11	2462	1	15.24	33.42	1 Watt = 30.00 dBm	PASS

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802.11g Main **Peak Output Peak Output** Freq. Data СН **Power Power RESULT** Limit (MHz) Rate (dBm) (mW) 18.63 1 Watt = 2412 6 72.95 30.00 dBm **PASS** 1 2437 18.45 69.98 1 Watt = 30.00 dBm PASS 6 6 11 2462 6 17.83 60.67 1 Watt = 30.00 **PASS** dBm 802.11g Main Max. Avg. Output Avg. Output Data include tune up Freq. СН Power **RESULT** Lim it Rate tolerance Power (MHz) (dBm) (mW) 2412 9.5 8.91 1 Watt = 30.00 **PASS** 6 dBm 9.04 30.00 **PASS** 6 2437 8.02 1 Watt = dBm 6 6.73 11 2462 8.28 1 Watt = 30.00 dBm **PASS** 6 802.11n_HT20M Main **Peak Output Peak Output** Data Freq. CH Power Power Lim it **RESULT** (MHz) Rate (dBm) (mW) 1 2412 MCS0 18.77 75.34 1 Watt = 30.00 **PASS** dBm MCS0 18.36 30.00 **PASS** 2437 68.55 1 Watt = dBm 6 11 2462 MCS0 17.88 61.38 1 Watt = 30.00 dBm **PASS** 802.11n HT20M Main Max. Avg. Output Avg. Output Data include tune up Freq. СН Power **RESULT** Limit (MHz) Rate tolerance Power (dBm) (mW) 2412 MCS0 9.51 8.93 1 Watt = **PASS** 30.00 dBm 6 2437 MCS0 9.05 8.04 1 Watt = 30.00 dBm **PASS**

Note:

11

offset 11.00 dB for SISO mode

MCS0

2462

6.70

1 Watt =

30.00

dBm

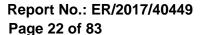
PASS

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^{*} Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.





EIRP

802.11	02.11b Main													
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)		Limit		RESULT					
1	2412	1	15.85	-6.76	9.09	4W=	36	dBm	PASS					
6	2437	1	15.67	-6.76	8.91	4W=	36	dBm	PASS					
11	2462	1	15.24	-6.76	8.48	4W=	36	dBm	PASS					

802.1	802.11g Main												
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)		Limit		RESULT				
1	2412	6	9.50	-6.76	2.74	4W=	36	dBm	PASS				
6	2437	6	9.04	-6.76	2.28	4W=	36	dBm	PASS				
11	2462	6	8.28	-6.76	1.52	4W=	36	dBm	PASS				

802.1	302.11n_HT20M Main												
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)		Limit		RESULT				
1	2412	MCS0	9.51	-6.76	2.75	4W=	36	dBm	PASS				
6	2437	MCS0	9.05	-6.76	2.29	4W=	36	dBm	PASS				
11	2462	MCS0	8.26	-6.76	1.50	4W=	36	dBm	PASS				

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6dB & 99% BANDWIDTH MEASUREMENT

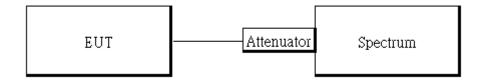
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site												
EQUIPMENT TYPE												
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018							
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018							
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018							

9.3 Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- 5. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. For 99% Bandwidth:
 - Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

802.11b Main

002.11b Wall							
Freq.	6dB BW	Limit	Result				
(MHz)	(kHz)	(kHz)					
2412	7599	> 500	PASS				
2437	7147	> 500	PASS				
2462	7149	> 500	PASS				

002.119 Walli							
Freq.	6dB BW	Result					
(MHz)	(kHz)	(kHz)	Resuit				
2412	16430	> 500	PASS				
2437	16440	> 500	PASS				
2462	16410	> 500	PASS				

802.11_n_HT20 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17630	> 500	PASS
2437	17640	> 500	PASS
2462	17640	> 500	PASS

802.11b Main				
Freq.	99% BW (MHz)			
(MHz)				
2412	12.590			
2437	12.408			
2462	11.997			

802.11g Ma	802.11g Main		
Freq.	99% BW		
(MHz)	(MHz)		
2412	16.693		
2437	16.567		
2462	16.575		

802.11n_HT20M Main				
Freq. 99% BW				
(MHz)	(MHz)			
2412	17.687			
2437	17.661			
2462	17.752			

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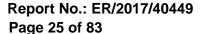
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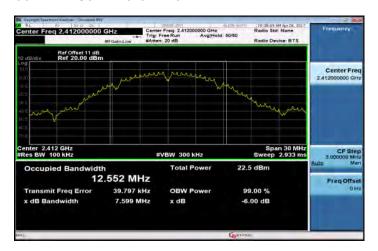
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^{*}Refer to next page for plots





6dB BW 802.11b CH-Low



6dB BW 802.11b CH-Mid



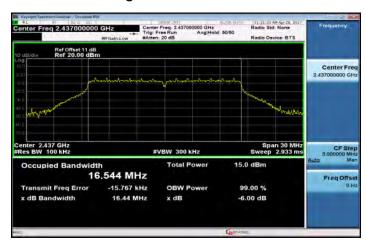
6dB BW 802.11b CH-High



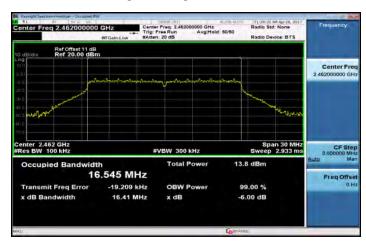
6dB BW 802.11g CH-Low



6dB BW 802.11g CH-Mid



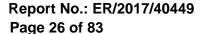
6dB BW 802.11g CH-High



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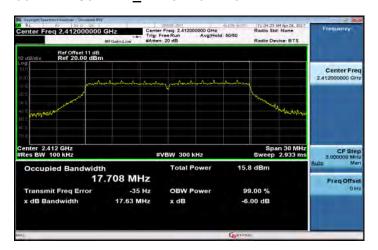
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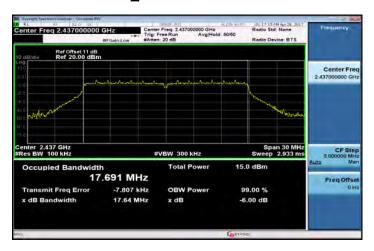




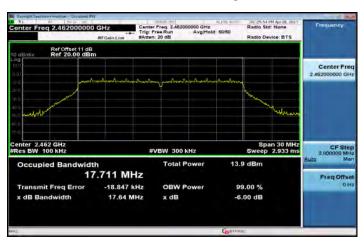
6dB BW 802.11n HT20M CH-Low



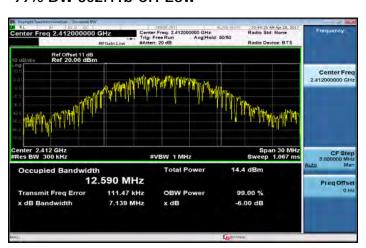
6dB BW 802.11n_HT20M CH-Mid



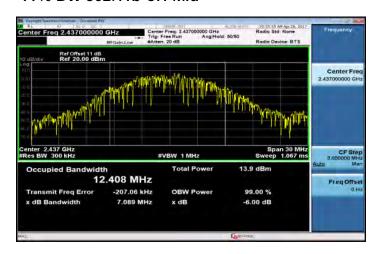
6dB BW 802.11n_HT20M CH-High



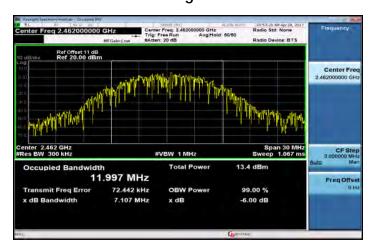
99% BW 802.11b CH-Low



99% BW 802.11b CH-Mid



99% BW 802.11b CH-High

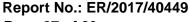


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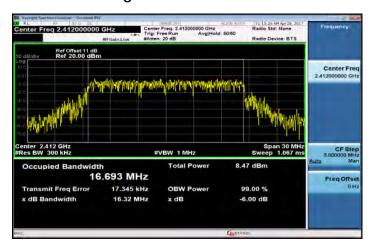
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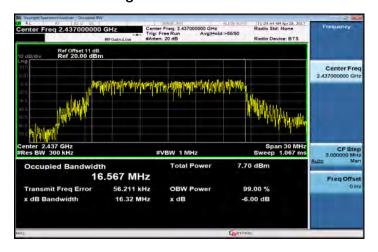
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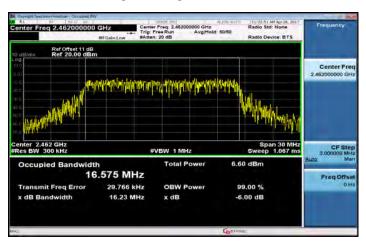
99% BW 802.11g CH-Low



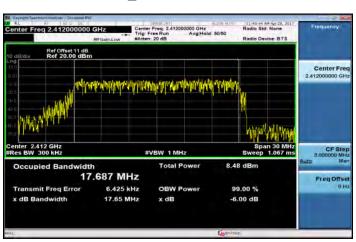
99% BW 802.11g CH-Mid



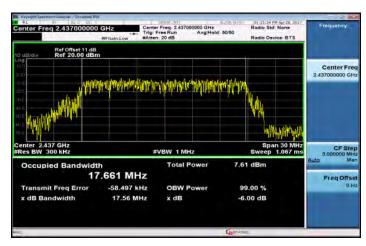
99% BW 802.11g CH-High



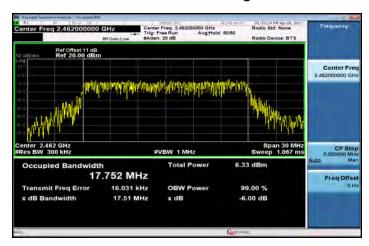
99% BW 802.11n_HT20M CH-Low



99% BW 802.11n_HT20M CH-Mid



99% BW 802.11n_HT20M CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

Standard Applicable 10.1

As per KDB 558074 D01 11.1 a)

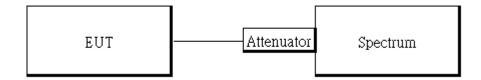
If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

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) & RSS-Gen §8.10 Table 6, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9 Table4 &5.

Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT MFR TYPE		MODEL NUMBER	SERIAL LAST NUMBER CAL.		CAL DUE.		
EXA Spectrum Analyzer	Agilent	N9030A	_		03/20/2018		
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018		
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018		

10.3 **Test SET-UP**



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10.4 Measurement Procedure

Band Edge Limit Calculation:

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guid-
- 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 start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 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.

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10.5 **Measurement Result**

Bandedge Limit 802.11b MODE			MODE Bandedge Limit 802.11g MODE B			Bandedge Limit 802.11 n20 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit	Freq. (MHz)	PSD (dBm)	Bandedge Limit	Freq. (MHz)	PSD (dBm)	Bandedge Limit
2412	7.38	-12.62	2412	-2.87	-22.87	2412	-2.81	-22.81
2462	5.94	-14.06	2462	-4.71	-24.71	2462	-4.73	-24.73

802.11b PSD for Bandedge limit(CH-Low)



802.11b PSD FOR BANDEDGE LIMIT (CH-High)



802.11g PSD FOR BANDEDGE LIMIT(CH-Low)



802.11g PSD FOR BANDEDGE LIMIT (CH-High)



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802.11n_HT20 PSD FOR BANDEDGE LIMIT (CH-Low)



802.11n_HT20 PSD FOR BANDEDGE LIMIT (CH-High)



802.11b Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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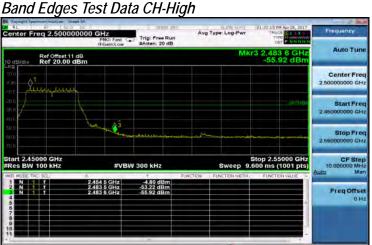
802.11a Band Edges Test Data CH-Low 802.11n_HT20 Band Edges Test Data CH-Low





Band Edges Test Data CH-High



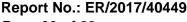


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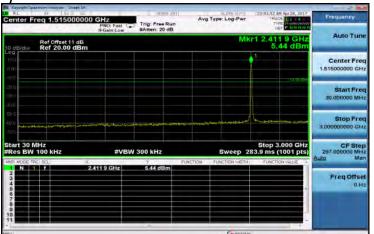
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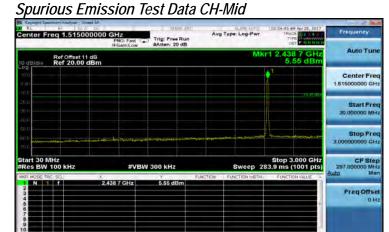


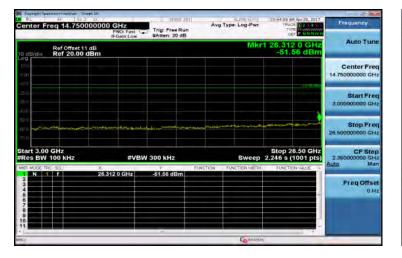
Page 33 of 83

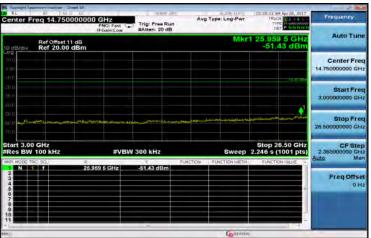


802.11b Spurious Emission Test Data CH-Low





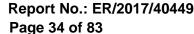




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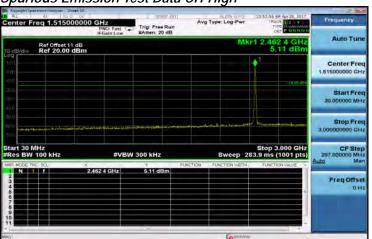
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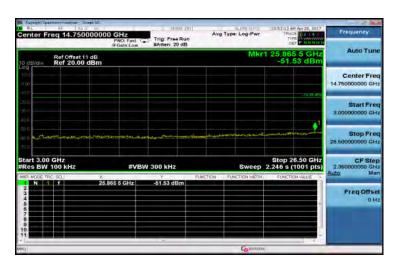
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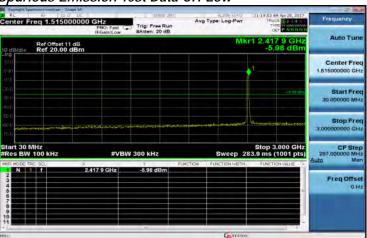
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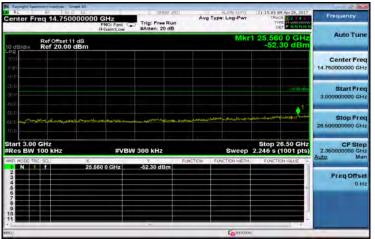
Spurious Emission Test Data CH-High





802.11q Spurious Emission Test Data CH-Low





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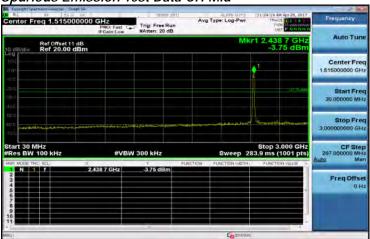
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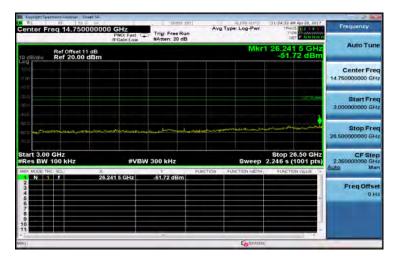


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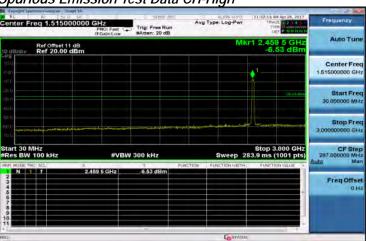


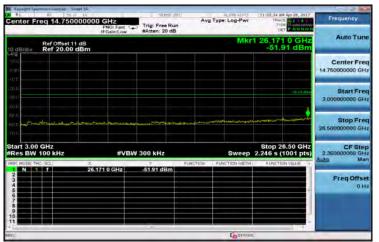
Spurious Emission Test Data CH-Mid





Spurious Emission Test Data CH-High





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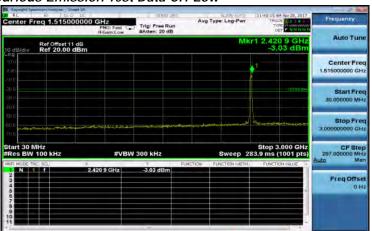
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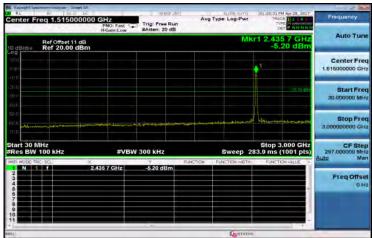
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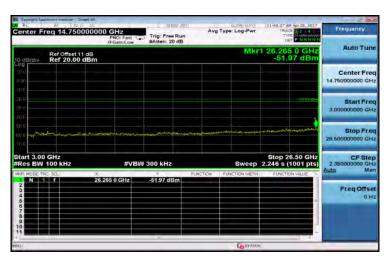


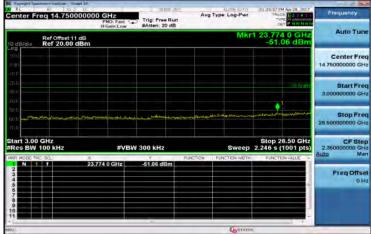
802.11n_HT20 Spurious Emission Test Data CH-Low











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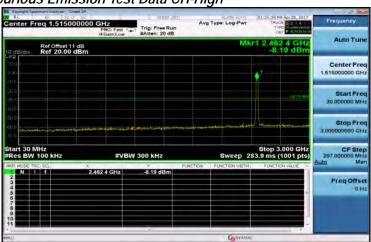
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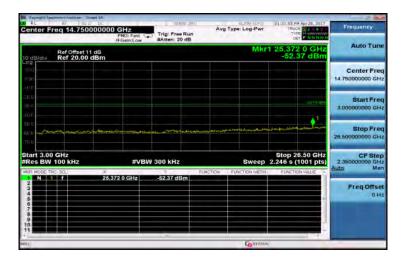


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Spurious Emission Test Data CH-High

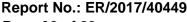




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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 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 as below.

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:

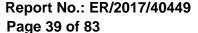
- 1. The lower limit shall apply at the transition frequencies.
- Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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11.2 Measurement Equipment Used:

	966 Chamber										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017						
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018						
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017						
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017						
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017						
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018						
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018						
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	01/05/2017	01/04/2018						
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017						
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018						
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017						
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018						

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

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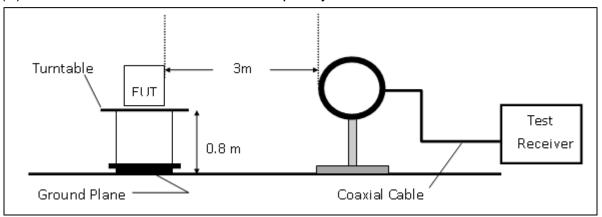
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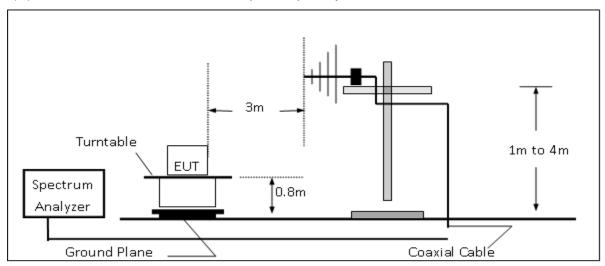


11.3 **Test SET-UP**

(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 Turntable 3m 1m to 4m **EUT** Spectrum 1.5m Analyzer Ground Plane Absorber Coaxial Cable

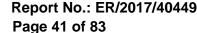
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11.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 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. 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.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel measured were complete.

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11.5 **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	

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.

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.

11.7 Measurement Result

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

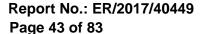
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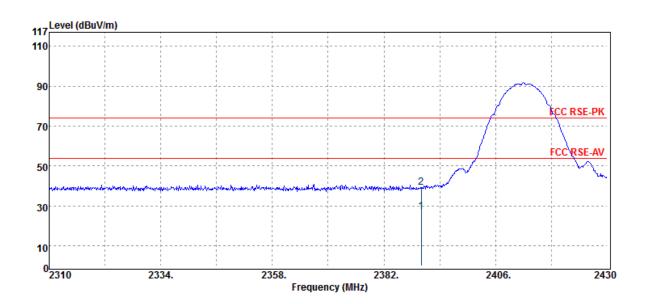
Radiated Band Edge Measurement Result (802.11b)

Operation Band :802.11b **Test Date** :2017-05-04

Fundamental Frequency :2412 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Bandedge CH LOW Engineer :Mike

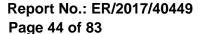
EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



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	28.93	-1.74	27.19	54.00	-26.81
2390.00	E	Peak	41.21	-1.74	39.47	74.00	-34.53

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:802.11b :2412 MHz

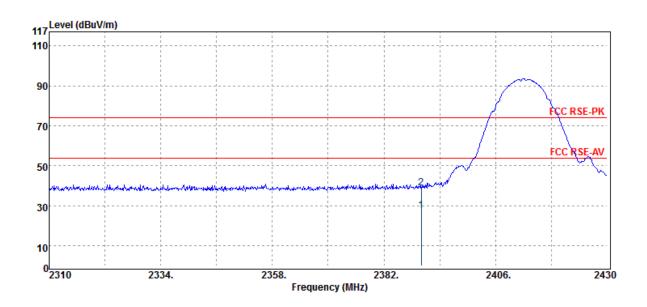
:Bandedge CH LOW

EUT Pol. :H Plane **Test Date** :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

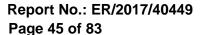
:HORIZONTAL Measurement Antenna Pol.



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
2390.00	E	Average	29.45	-1.74	27.71	54.00	-26.29
2390.00	Е	Peak	40.78	-1.74	39.04	74.00	-34.96

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EUT Pol.

:802.11b :2462 MHz

:Bandedge CH HIGH

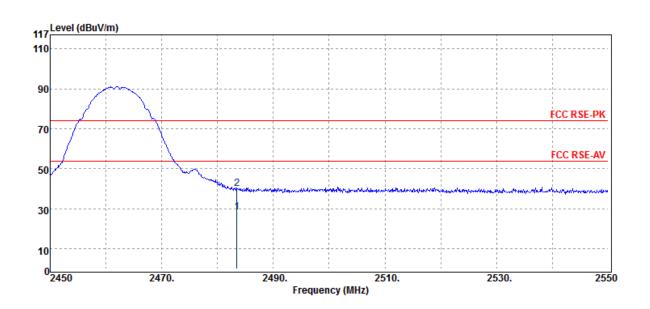
:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

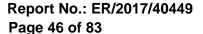
:VERTICAL Measurement Antenna Pol.



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
2483.50	Е	Average	29.78	-1.62	28.16	54.00	-25.84
2483.50	Е	Peak	41.53	-1.62	39.91	74.00	-34.09

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EUT Pol.

:802.11b :2462 MHz

:Bandedge CH HIGH

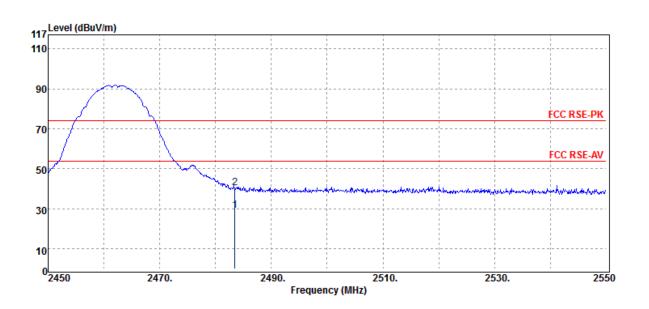
:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

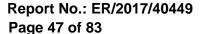
:VERTICAL Measurement Antenna Pol.



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
2483.50	E	Average	30.79	-1.62	29.17	54.00	-24.83
2483.50	Е	Peak	42.03	-1.62	40.41	74.00	-33.59

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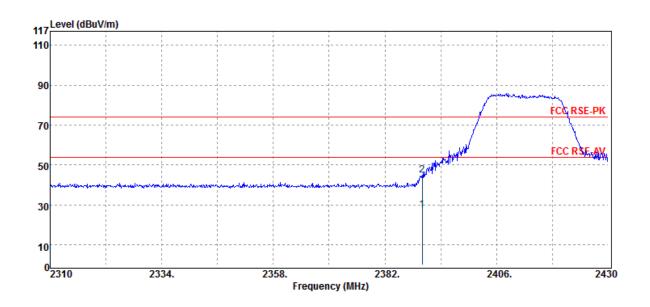


Radiated Band Edge Measurement Result (802.11g)

Operation Band :802.11g Test Date :2017-05-04

Fundamental Frequency :2412 MHz Temp./Humi. :23 deg_C / 62 RH

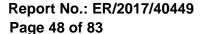
Operation Mode :Bandedge CH LOW Engineer :Mike EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



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
2390.00	Е	Average	29.20	-1.74	27.46	54.00	-26.54
2390.00	E	Peak	46.52	-1.74	44.78	74.00	-29.22

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:802.11g :2412 MHz

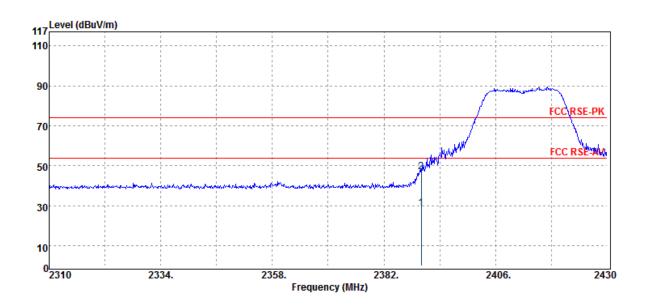
:Bandedge CH LOW

:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH Engineer :Mike

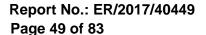
:HORIZONTAL Measurement Antenna Pol.



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
2390.00	E	Average	30.32	-1.74	28.58	54.00	-25.42
2390.00	Е	Peak	48.62	-1.74	46.88	74.00	-27.12

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:802.11g :2462 MHz

:Bandedge CH HIGH

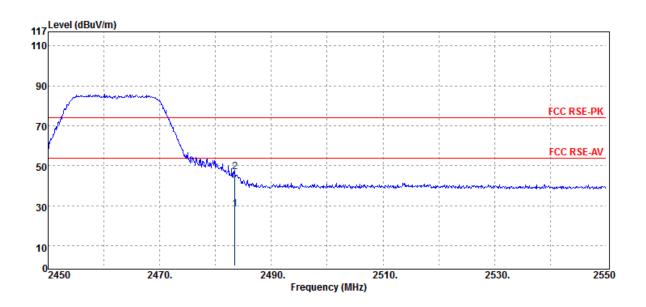
:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.

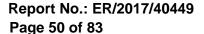


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Average	29.78	-1.62	28.16	54.00	-25.84
2483.50	Е	Peak	48.58	-1.62	46.96	74.00	-27.04

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Operation Band Fundamental Frequency

Operation Mode EUT Pol.

:802.11g :2462 MHz

:Bandedge CH HIGH

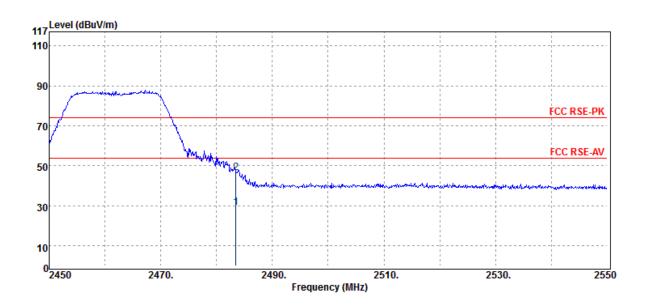
:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

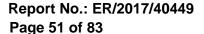
:HORIZONTAL Measurement Antenna Pol.



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
2483.50	E	Average	30.84	-1.62	29.22	54.00	-24.78
2483.50	Е	Peak	48.17	-1.62	46.55	74.00	-27.45

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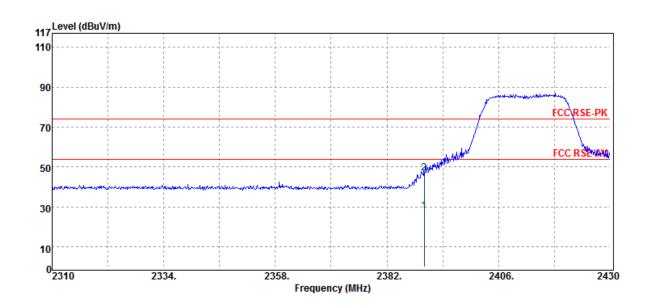
Radiated Band Edge Measurement Result (802.11_HT20)

Operation Band :802.11n20 **Test Date** :2017-05-04

Fundamental Frequency :2412 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Bandedge CH LOW Engineer :Mike

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

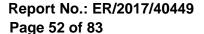


Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
2390.00	Е	Average	29.74	-1.74	28.00	54.00	-26.00
2390.00	Е	Peak	48.61	-1.74	46.87	74.00	-27.13

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:802.11n20 :2412 MHz

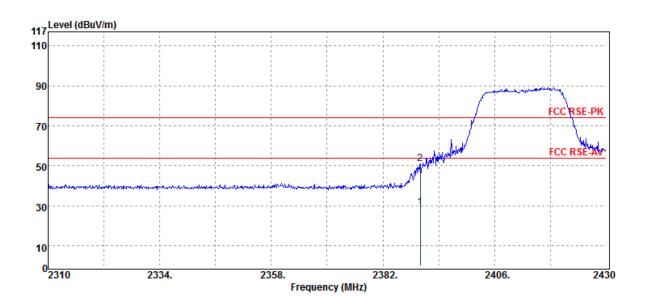
:Bandedge CH LOW

:H Plane

Test Date :2017-05-04 Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.

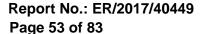


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Е	Average	30.74	-1.74	29.00	54.00	-25.00
2390.00	Е	Peak	52.89	-1.74	51.15	74.00	-22.85

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:802.11n20 :2462 MHz

:Bandedge CH HIGH

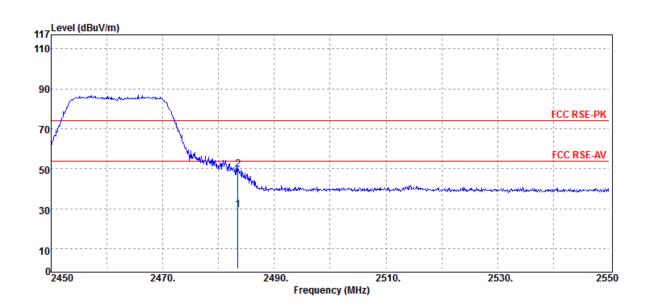
:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.

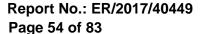


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Average	31.22	-1.62	29.60	54.00	-24.40
2483.50	E	Peak	51.27	-1.62	49.65	74.00	-24.35

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EUT Pol.

:802.11n20 :2462 MHz

:Bandedge CH HIGH

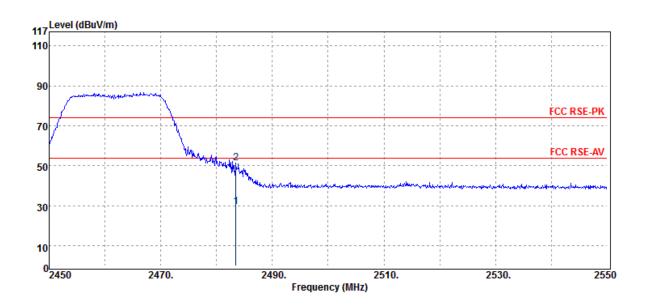
:H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



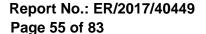
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2483.50	E	Average	31.16	-1.62	29.54	54.00	-24.46
2483.50	Е	Peak	53.09	-1.62	51.47	74.00	-22.53

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:2017-04-28



Below 1GHz Worst-Case Data:

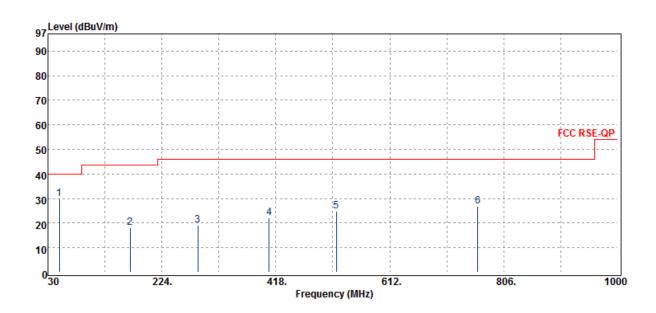
Radiated Spurious Emission Measurement Result (802.11 g)

Operation Band Test Date :802.11g

Fundamental Frequency :2412 MHz Temp./Humi. :23 deg C / 62 RH

Operation Mode :Tx CH LOW Engineer :Mike

EUT Pol. :H Plane :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
49.40	S	Peak	38.37	-8.45	29.92	40.00	-10.08
169.68	S	Peak	27.00	-8.96	18.04	43.50	-25.46
285.11	S	Peak	27.22	-8.02	19.20	46.00	-26.80
406.36	S	Peak	27.92	-5.89	22.03	46.00	-23.97
520.82	S	Peak	29.28	-4.38	24.90	46.00	-21.10
761.38	S	Peak	27.10	-0.20	26.90	46.00	-19.10

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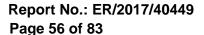
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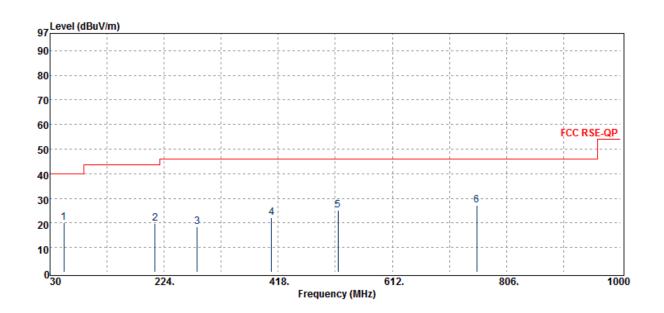
:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-04-28

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL 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
53.28	S	Peak	28.54	-8.56	19.98	40.00	-20.02
208.48	S	Peak	31.04	-11.26	19.78	43.50	-23.72
280.26	S	Peak	26.75	-8.14	18.61	46.00	-27.39
406.36	S	Peak	28.08	-5.89	22.19	46.00	-23.81
519.85	S	Peak	29.50	-4.35	25.15	46.00	-20.85
755.56	S	Peak	27.47	-0.39	27.08	46.00	-18.92

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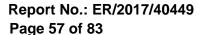
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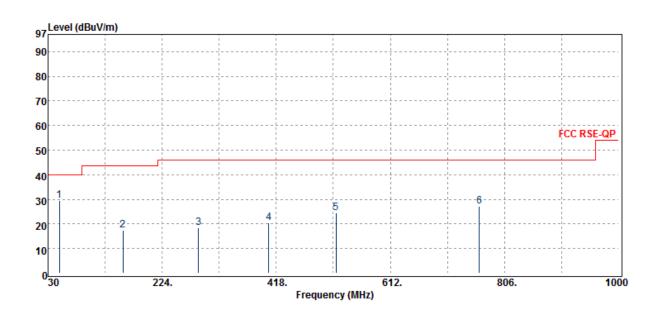
:802.11g :2437 MHz :Tx CH MID :H Plane

:2017-04-28 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.

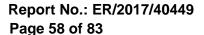


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
49.40	S	Peak	38.05	-8.45	29.60	40.00	-10.40
157.07	S	Peak	26.37	-8.87	17.50	43.50	-26.00
286.08	S	Peak	26.58	-8.02	18.56	46.00	-27.44
405.39	S	Peak	26.32	-5.90	20.42	46.00	-25.58
519.85	S	Peak	28.96	-4.35	24.61	46.00	-21.39
763.32	S	Peak	27.38	-0.23	27.15	46.00	-18.85

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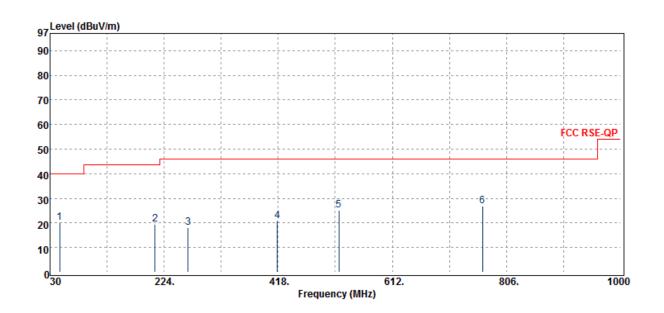
:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-04-28

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

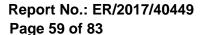
:HORIZONTAL Measurement Antenna Pol.



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
							_
46.49	S	Peak	28.66	-8.62	20.04	40.00	-19.96
208.48	S	Peak	30.77	-11.26	19.51	43.50	-23.99
264.74	S	Peak	27.08	-8.80	18.28	46.00	-27.72
416.06	S	Peak	26.40	-5.73	20.67	46.00	-25.33
520.82	S	Peak	29.48	-4.38	25.10	46.00	-20.90
765.26	S	Peak	27.10	-0.21	26.89	46.00	-19.11

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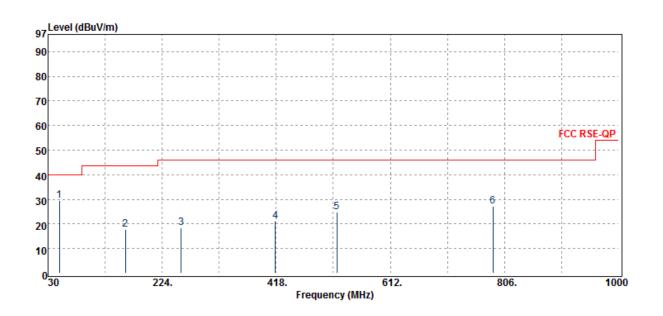
:802.11g :2462 MHz :Tx CH HIGH :H Plane

:2017-04-28 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

: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
49.40	S	Peak	37.94	-8.45	29.49	40.00	-10.51
161.92	S	Peak	26.49	-8.85	17.64	43.50	-25.86
256.01	S	Peak	27.71	-9.14	18.57	46.00	-27.43
416.06	S	Peak	26.94	-5.73	21.21	46.00	-24.79
520.82	S	Peak	29.24	-4.38	24.86	46.00	-21.14
786.60	S	Peak	27.10	-0.06	27.04	46.00	-18.96

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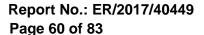
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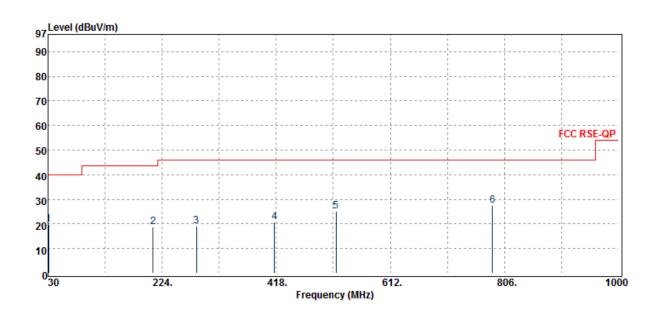
:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-04-28

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL 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
30.97	S	Peak	29.48	-9.74	19.74	40.00	-20.26
208.48	S	Peak	30.07	-11.26	18.81	43.50	-24.69
282.20	S	Peak	27.27	-8.07	19.20	46.00	-26.80
415.09	S	Peak	26.55	-5.73	20.82	46.00	-25.18
519.85	S	Peak	29.68	-4.35	25.33	46.00	-20.67
785.63	S	Peak	27.58	-0.06	27.52	46.00	-18.48

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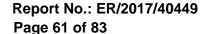
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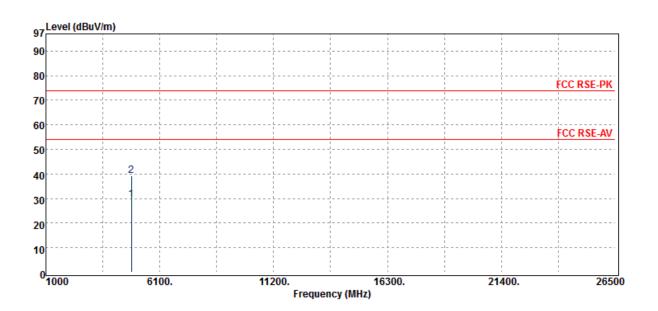
Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Band :802.11b Test Date :2017-05-04

Fundamental Frequency :2412 MHz Temp./Humi. :23 deg_C / 62 RH

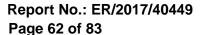
Operation Mode :Tx CH LOW Engineer :Mike EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Average	24.51	4.93	29.44	54.00	-24.56
4824.00	Н	Peak	34.22	4.93	39.15	74.00	-34.85

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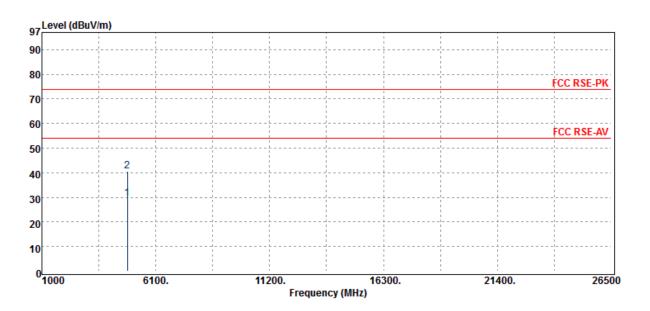
:802.11b :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
4824.00	Н	Average	24.57	4.93	29.50	54.00	-24.50
4824.00	Н	Peak	35.65	4.93	40.58	74.00	-33.42

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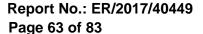
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EUT Pol.

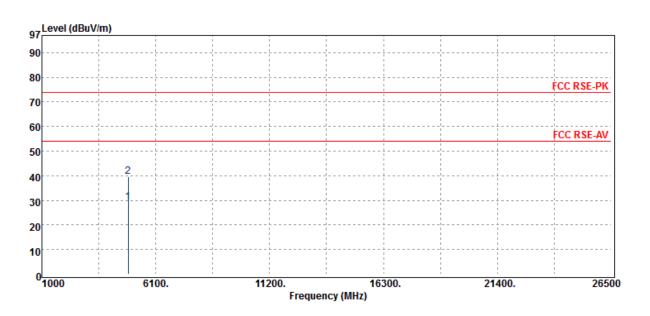
:802.11b :2437 MHz :Tx CH MID :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4874.00	Н	Average	23.99	5.13	29.12	54.00	-24.88
4874.00	Н	Peak	34.32	5.13	39.45	74.00	-34.55

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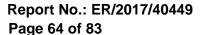
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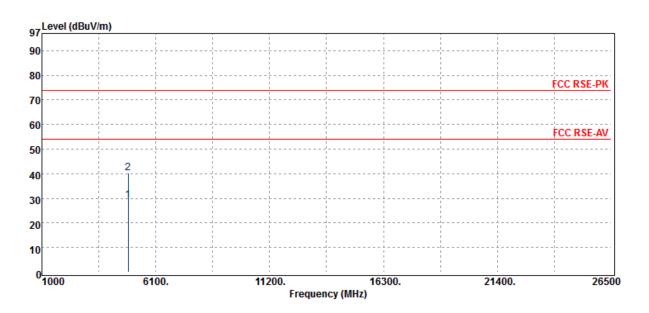
:802.11b :2437 MHz :Tx CH MID :H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBµV/m	dB
							_
4874.00	Н	Average	23.97	5.13	29.10	54.00	-24.90
4874.00	Н	Peak	35.12	5.13	40.25	74.00	-33.75

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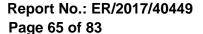
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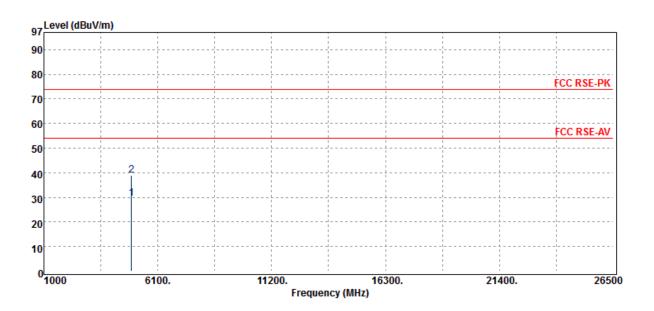
:802.11b :2462 MHz :Tx CH HIGH :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4924.00	Н	Average	24.29	5.25	29.54	54.00	-24.46
4924.00	Н	Peak	33.72	5.25	38.97	74.00	-35.03

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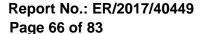
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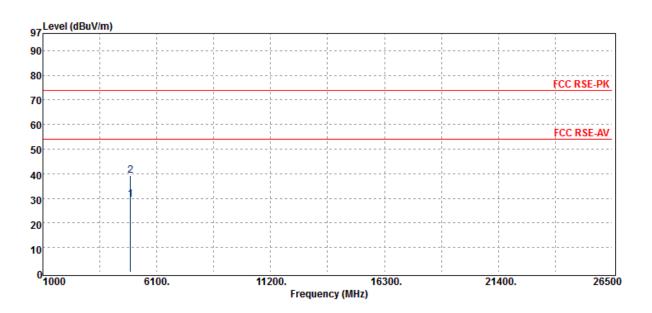
:802.11b :2462 MHz :Tx CH HIGH :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4924.00	Н	Average	24.36	5.25	29.61	54.00	-24.39
4924.00	Н	Peak	34.12	5.25	39.37	74.00	-34.63

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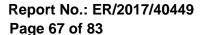
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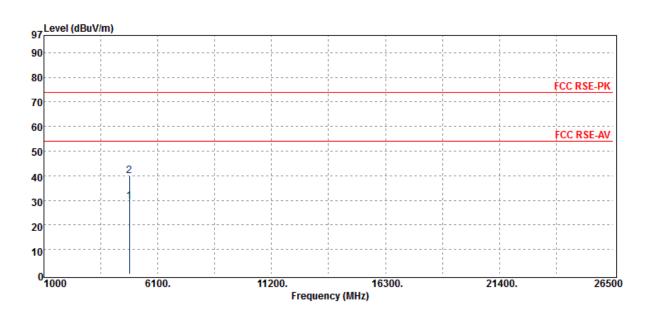


Radiated Spurious Emission Measurement Result (802.11 g)

Operation Band Test Date :2017-05-04 :802.11g

Fundamental Frequency :2412 MHz Temp./Humi. :23 deg_C / 62 RH :Tx CH LOW **Operation Mode** Engineer :Mike

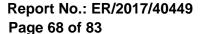
EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4824.00	Н	Average	24.52	4.93	29.45	54.00	-24.55
4824.00	Н	Peak	35.07	4.93	40.00	74.00	-34.00

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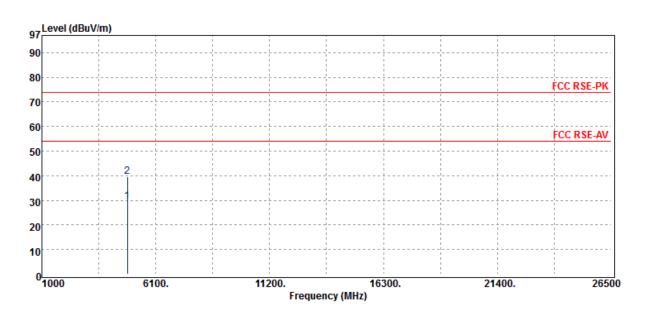
:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-05-04

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4824.00	Н	Average	24.63	4.93	29.56	54.00	-24.44
4824.00	Н	Peak	34.65	4.93	39.58	74.00	-34.42

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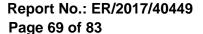
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EUT Pol.

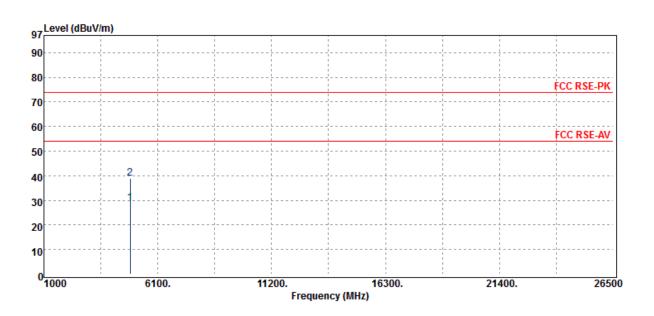
:802.11g :2437 MHz :Tx CH MID :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4874.00	Н	Average	23.84	5.13	28.97	54.00	-25.03
4874.00	Н	Peak	33.93	5.13	39.06	74.00	-34.94

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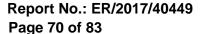
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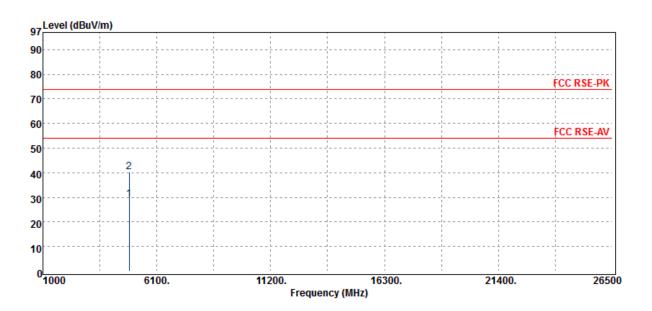
:802.11g :2437 MHz :Tx CH MID :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
							_
4874.00	Н	Average	23.92	5.13	29.05	54.00	-24.95
4874.00	Н	Peak	35.05	5.13	40.18	74.00	-33.82

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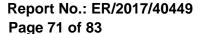
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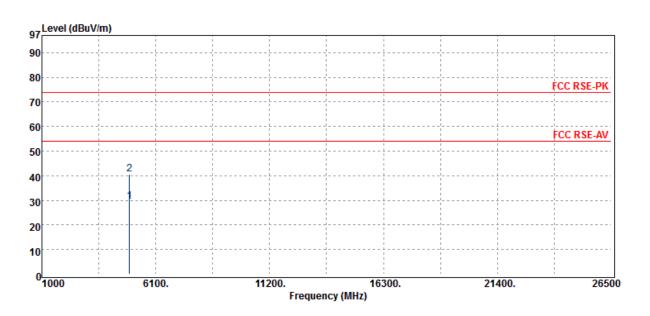
:802.11g :2462 MHz :Tx CH HIGH :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
4924.00	Н	Average	24.23	5.25	29.48	54.00	-24.52
4924.00	Н	Peak	35.36	5.25	40.61	74.00	-33.39

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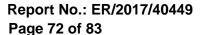
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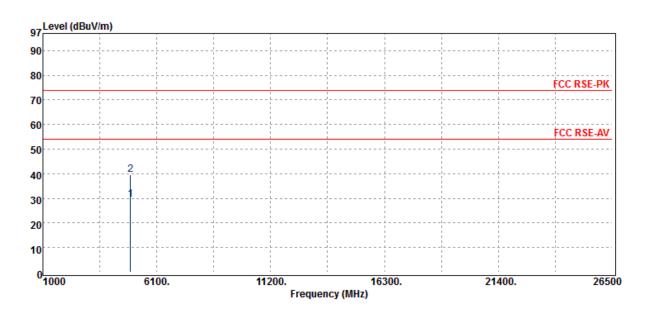
:802.11g :2462 MHz :Tx CH HIGH :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4924.00	Н	Average	24.31	5.25	29.56	54.00	-24.44
4924.00	Н	Peak	34.51	5.25	39.76	74.00	-34.24

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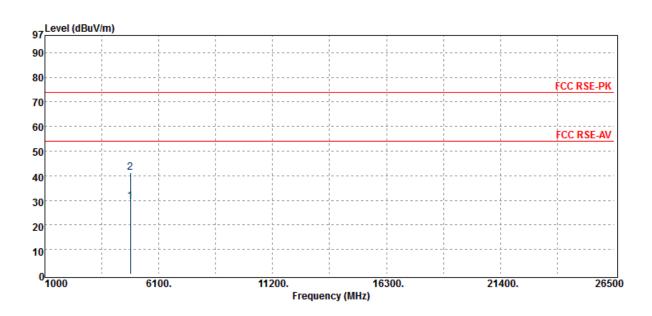
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Band Test Date :802.11n20 :2017-05-04 Fundamental Frequency :2412 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Tx CH LOW Engineer :Mike

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



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
4824.00	Н	Average	24.56	4.93	29.49	54.00	-24.51
4824.00	Н	Peak	36.29	4.93	41.22	74.00	-32.78

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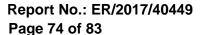
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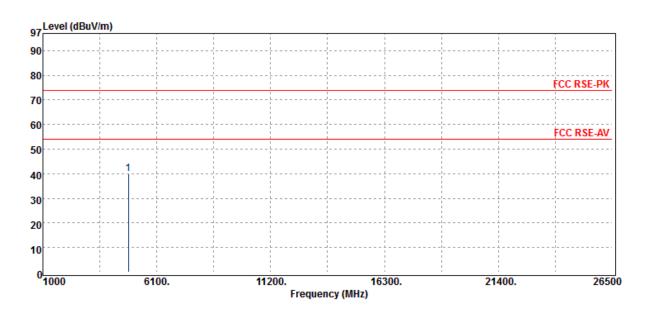


:802.11n20 :2412 MHz :Tx CH LOW :H Plane

:2017-05-04 **Test Date** Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Н	Peak	34.99	4.93	39.92	74.00	-34.08

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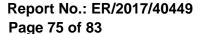
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Operation Band Fundamental Frequency

Operation Mode EUT Pol.

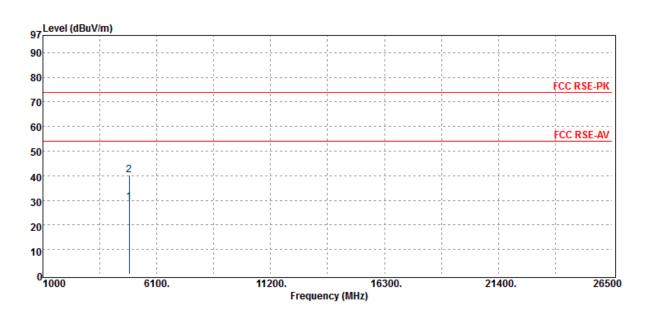
:802.11n20 :2437 MHz :Tx CH MID :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4874.00	Н	Average	23.95	5.13	29.08	54.00	-24.92
4874.00	Н	Peak	35.01	5.13	40.14	74.00	-33.86

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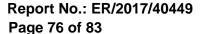
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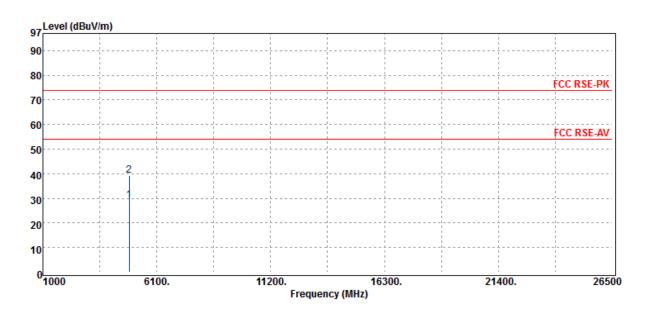
:802.11n20 :2437 MHz :Tx CH MID :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4874.00	Н	Average	23.98	5.13	29.11	54.00	-24.89
4874.00	Н	Peak	34.07	5.13	39.20	74.00	-34.80

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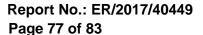
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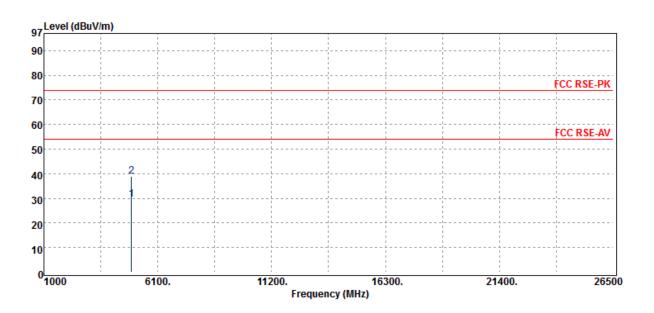
:802.11n20 :2462 MHz :Tx CH HIGH :H Plane

:2017-05-04 **Test Date**

Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4924.00	Н	Average	24.36	5.25	29.61	54.00	-24.39
4924.00	Н	Peak	33.69	5.25	38.94	74.00	-35.06

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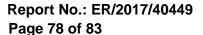
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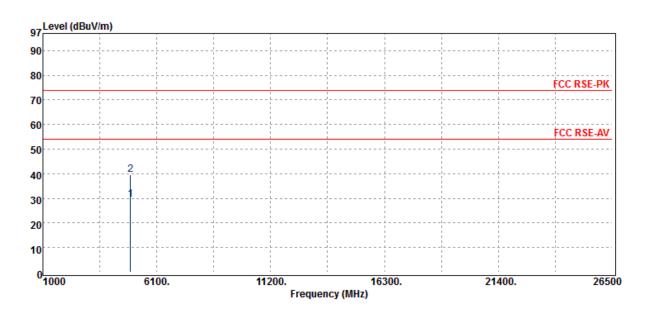


:802.11n20 :2462 MHz :Tx CH HIGH :H Plane

:2017-05-04 **Test Date** Temp./Humi. :23 deg_C / 62 RH

Engineer :Mike

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
4924.00	Н	Average	24.39	5.25	29.64	54.00	-24.36
4924.00	Н	Peak	34.30	5.25	39.55	74.00	-34.45

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12 PEAK POWER SPECTRAL DENSITY

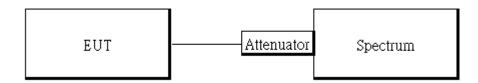
12.1 **Standard Applicable**

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 **Measurement Equipment Used**

Conducted Emission Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018		
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018		
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018		

12.3 **Test Set-up**



12.4 **Measurement Procedure**

- 10. Set analyzer center frequency to DTS channel center frequency.
- 11. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 12. Set the span to 1.5 times the DTS channel bandwidth.
- 13. Set the RBW = 3 kHz & VBW = 10 kHz.
- 14. For defining Restricted Band Edge Limit: Set the RBW = 100kHz & VBW = 300 kHz
- 15. Detector = peak.
- 16. Sweep time = auto couple.
- 17. Trace mode = max hold.
- 18. Allow trace to fully stabilize.
- 19. Use the peak marker function to determine the maximum amplitude level.

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12.5 **Measurement Result**

POWER DENSITY 802.11b MODE						
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result			
2412	-7.59	8.00	PASS			
2437	-7.27	8.00	PASS			
2462	-9.60	8.00	PASS			

POWE	R DENSITY	802.11g	MODE
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
2412	-18.09	8.00	PASS
2437	-17.70	8.00	PASS
2462	-18.83	8.00	PASS

POWER DENSITY 802.11n HT20 MODE						
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result			
2412	-17.92	8.00	PASS			
2437	-18.19	8.00	PASS			
2462	-19.78	8.00	PASS			

^{*}Refer to next page for plots

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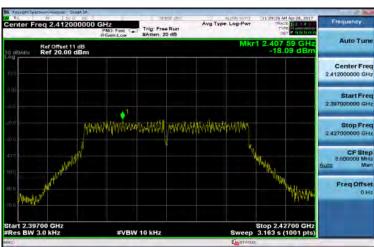
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SGS

802.11b CH-Low



802.11g CH-Low



802.11b CH-Mid



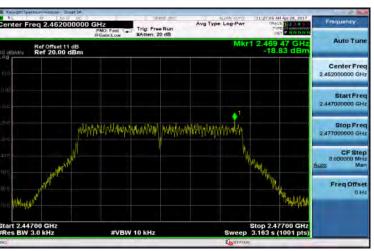
802.11g CH-Mid



802.11b CH-High



802.11q CH-High



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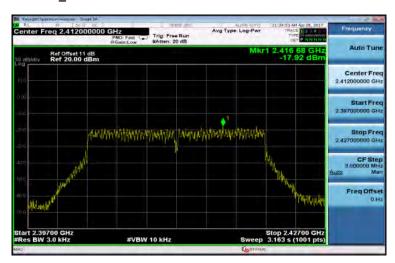
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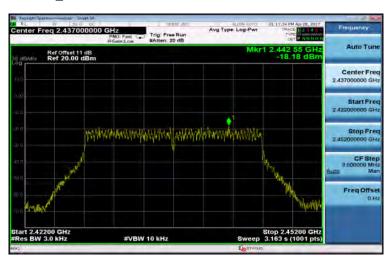
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802.11n_20 CH-Low



802.11n_20 CH-Mid



802.11n_20 CH-High



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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.

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.

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.

~ End of Report ~

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