



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Movado Connect Product Name:

Brand Name: Movado

FCC Model No.: Movado Connect

Model Difference: N/A

FCC ID: 2ALO3MOCONNECT

IC: 22570-MOCONNECT

Report No.: ER/2017/20102

Issue Date: Mar. 16, 2017

FCC Rule Part: §15.247, Cat: DTS

IC Rule: RSS-247 issue 2 Feb. 2017

MOVADO GROUP INC. **FCC** Prepared for:

29th floor, Citicorp Center; 18 Whitfield Road, North

Point, Hong

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.134, Wu Kung Road, New Taipei Industrial Park,

Wuku District, New Taipei City, Taiwan 24803





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VERIFICATION OF COMPLIANCE

FCC Applicant: MOVADO GROUP INC.

29th floor, Citicorp Center; 18 Whitfield Road, North Point, Hong

Product Name: Movado Connect

Brand Name: Movado

Model No.: Movado Connect

Model Difference: N/A

FCC ID: 2ALO3MOCONNECT IC: 22570-MOCONNECT

ER/2017/20102 **Report Number:**

Date of test: Mar. 02, 2017 ~ Mar. 03, 2017

Date of EUT Received: Feb. 16, 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:	Cooper Hsu	Date:	Mar. 16, 2017	
_	Cooper Hsu / Engineer			
Prepared By:	Allen Tsai	Date:	Mar. 16, 2017	
Approved By:	Allen Tsai / Sr. Engineer Lang Jim Chang / Asst. Manager	Date:	Mar. 16, 2017	

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/20102	Rev.00	Initial creation of document	Mar. 16, 2017

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GENERAL INFORMATION

1.1 Product description

General:

Jeneral.			
Product Name:	Movado Connect		
Brand Name:	Movado		
Model No.:	Movado	Connect	
Model Difference:	N/A		
Product SW/HW version:	CERT.00020.17070/ HW1000		
Radio SW/HW version:	N/A / N/A		
Test SW Version:	N/A		
RF power setting in TEST SW:	N/A		
Wireless Charger:	Model No.: N/A, Supplier: N/A		
Power Supply:	3.8Vdc R Charger	Rechargeable Li-ion Battery or 5Vdc from Wireless	
,	Battery:	Model No.: APP00206, Supplier: APACK	

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Type of Emission 99%	Modulation Technology		
11b/g	2412-2462	11	b: 18.63dBm g: 18.33dBm	b:12M5G1D g:16M6D1D	DSSS, OFDM		
11n	HT20 2412-2462	11	HT20:18.27dBm	HT20:17M7D1D	OFDM		
Antenna Designation:		PIFA Antenna, Gain: -9.09dBi					
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM					
Transition Rate: 8		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 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

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 0.45dB.

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2.5 Configuration of Tested System Fig. 2-1 Radiated Emission Configuration



Fig. 2-2 Conducted Emission (AC Power Line) Configuration



Fig.2-3 Conducted Emission (Antenna Port) Configuration

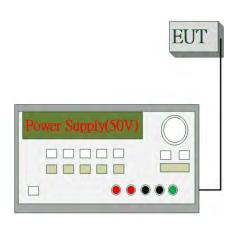


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	KR93300208	N/A	Unshielded
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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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		

Note:

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	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

6.2 Measurement Equipment Used

	Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017					
LISN	SCHWARZBECK	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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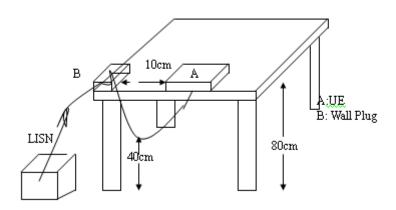
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^{1.} The lower limit shall apply at the transition frequencies

^{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: Tin

Site Conduction Room

Phase:

L1

Temperature:

20 ℃

Limit: FCC Class B Conduction(QP)

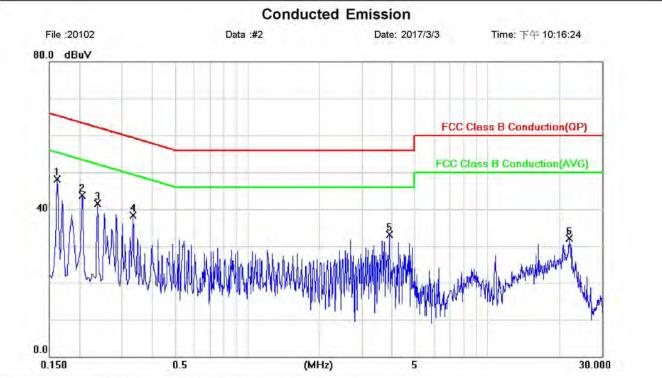
Power:

AC 120V/60Hz

Humidity: 58 %

Mode: Operation

Note:

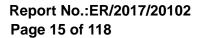


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		_
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1620	48.08	0.07	48.15	65.36	-17.21	peak	-
2	0.2060	43.55	0.08	43.63	63.37	-19.74	peak	
3	0.2380	41.39	0.08	41.47	62.17	-20.70	peak	
4	0.3340	38.23	0.09	38.32	59.35	-21.03	peak	
5	3.9140	32.89	0.23	33.12	56.00	-22.88	peak	
6	21.8740	31.73	0.46	32.19	60.00	-27.81	peak	

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Site Conduction Room

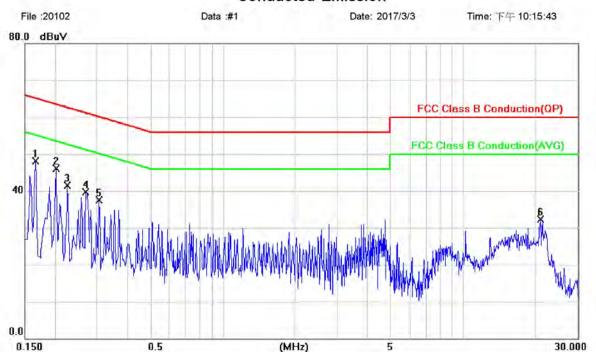
Limit: FCC Class B Conduction(QP)

Mode: Operation

Note:

Phase: Temperature: 20 °C AC 120V/60Hz Humidity: Power:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1660	48.08	0.07	48.15	65.16	-17.01	peak	
2		0.2020	45.93	0.08	46.01	63.53	-17.52	peak	
3		0.2260	41.40	0.08	41.48	62.60	-21.12	peak	
4		0.2700	39.56	0.09	39.65	61.12	-21.47	peak	
5		0.3060	37.40	0.09	37.49	60.08	-22.59	peak	
6		21.1340	31.94	0.46	32.40	60.00	-27.60	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:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	97.63	0.10
802.11g	87.24	0.59
802.11n_20	86.64	0.62

Duty Cycle Factor: $10 * \log(1/0.9763) = 0.1$ Duty Cycle Factor: $10 * \log(1/0.8724) = 0.59$ Duty Cycle Factor: $10 * \log(1/0.8664) = 0.62$

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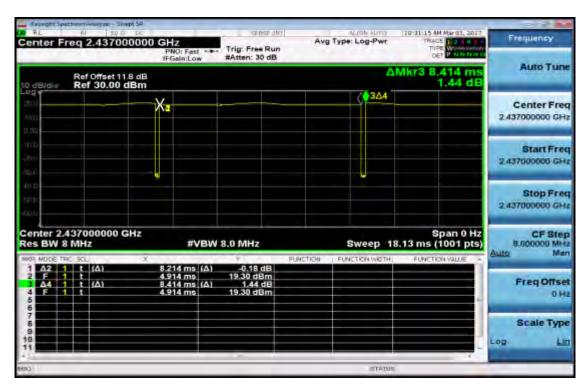
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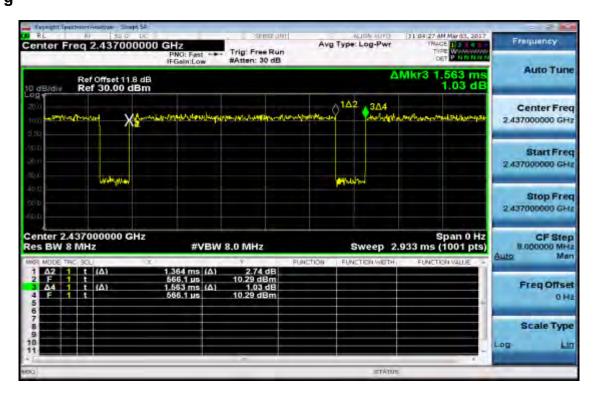
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result 802.11 b



802.11 g



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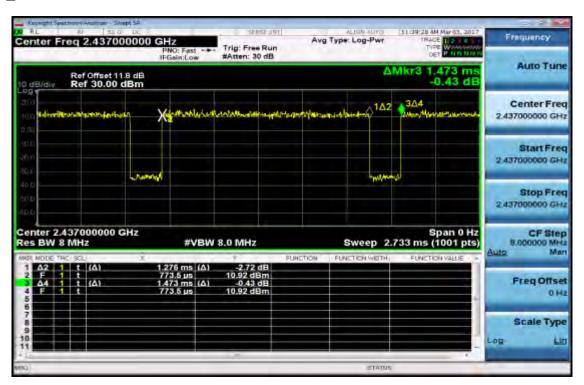
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802.11 n_20 MHz



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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				
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018				
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	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				
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017				
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017				

8.3 Test Set-up

Power Meter:

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. Guidance.
- 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.

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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	18.46	70.15	1 Watt = 30.00 dBm	PASS
6	2437	1	18.63	72.95	1 Watt = 30.00 dBm	PASS
11	2462	1	18.45	69.98	1 Watt = 30.00 dBm	PASS
802.1	1b Main					
СН	Freq. (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	1	15.52	35.65	1 Watt = 30.00 dBm	PASS
6	2437	1	15.67	36.90	1 Watt = 30.00 dBm	PASS
11	2462	1	15.66	36.81	1 Watt = 30.00 dBm	PASS

802.1	1g Main					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	18.33	68.08	1 Watt = 30.00 dBm	PASS
6	2437	6	18.29	67.45	1 Watt = 30.00 dBm	PASS
11	2462	6	18.12	64.86	1 Watt = 30.00 dBm	PASS
802.1	1g Main					
СН	Freq. (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	6	9.22	8.36	1 Watt = 30.00 dBm	PASS
6	2437	6	9.13	8.18	1 Watt = 30.00 dBm	PASS
11	2462	6	8.84	7.66	1 Watt = 30.00 dBm	PASS

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802.1	802.11n_HT20M Main								
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT			
1	2412	MCS0	18.23	66.53	1 Watt = 30.00 dBm	PASS			
6	2437	MCS0	18.27	67.14	1 Watt = 30.00 dBm	PASS			
11	2462	MCS0	18.09	64.42	1 Watt = 30.00 dBm	PASS			
802.1	1n_HT20	M Main							
СН	Freq. (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT			
1	2412	MCS0	9.2	8.32	1 Watt = 30.00 dBm	PASS			
6	2437	MCS0	9.11	8.15	1 Watt = 30.00 dBm	PASS			
11	2462	MCS0	8.83	7.64	1 Watt = 30.00 dBm	PASS			

Note:

11.80 offset dB

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



6dB & 99% BANDWIDTH MEASUREMENT

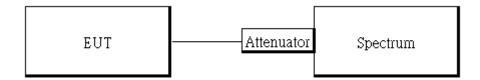
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760		02/24/2018				
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018				
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018				
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017				

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

802 11a Main

OOL: I ID IVIGITI					002
Freq.	6dB BW	Limit	Docult		Fr
(MHz)	(kHz)	(kHz)	Result		(M
2412	7575	> 500	PASS		24
2437	7120	> 500	PASS		24
2462	7120	> 500	PASS		24

	OUZ. TIG WATT							
I	Freq.	6dB BW	Limit	Result				
l	(MHz)	(kHz)	(kHz)					
	2412	16440	> 500	PASS				
	2437	16380	> 500	PASS				
I	2462	16400	> 500	PASS				

802.11 n HT20 Main

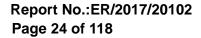
Freq.	6dB BW	Limit	Docult			
(MHz)	(kHz)	(kHz)	Result			
2412	17610	> 500	PASS			
2437	17610	> 500	PASS			
2462	17620	> 500	PASS			

802.11b Main					
Freq. (MHz)	99% BW (MHz)				
2412	12.348				
2437	12.247				
2462	12.461				

802.11g Main					
Freq. (MHz)	99% BW (MHz)				
2412	16.459				
2437	16.435				
2462	16.592				

802.11n_HT20M Main				
Freq.	99% BW			
(MHz)	(MHz)			
2412	17.687			
2437	17.702			
2462	17.703			

^{*}Refer to next page for plots





6dB BW 802.11b CH-Low

6dB BW 802.11g CH-Low



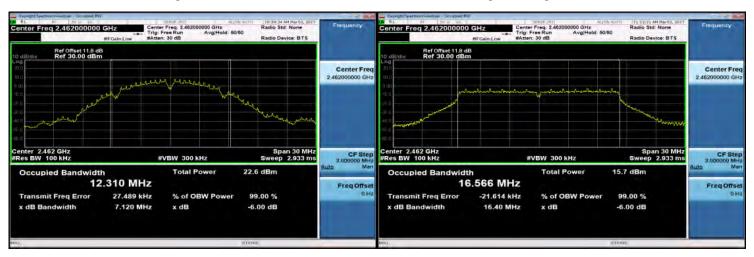
6dB BW 802.11b CH-Mid

6dB BW 802.11g CH-Mid



6dB BW 802.11b CH-High

6dB BW 802.11g CH-High

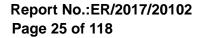


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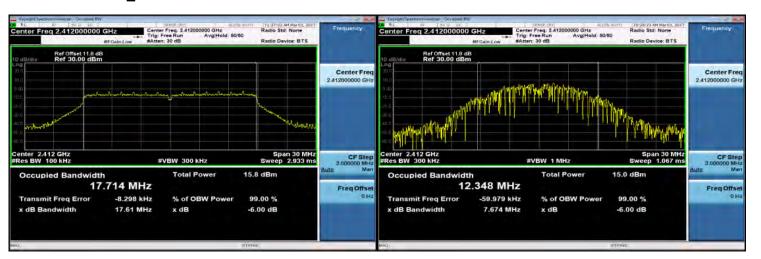
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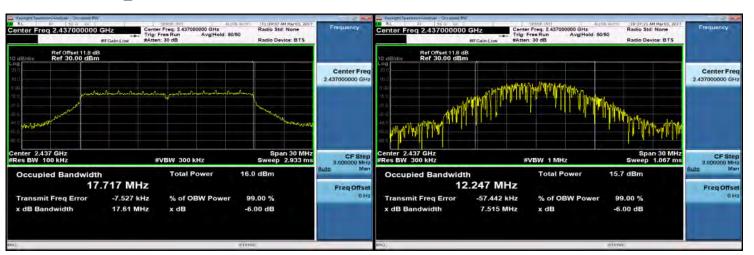
6dB BW 802.11n HT20M CH-Low

99% BW 802.11b CH-Low



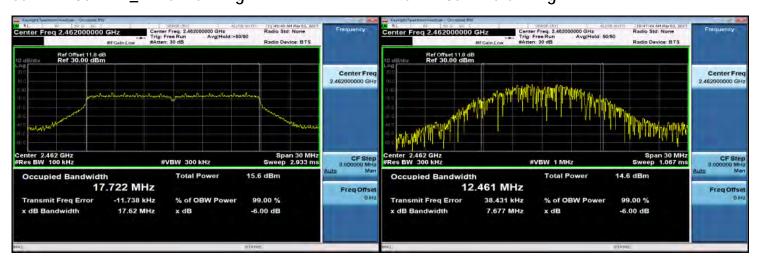
6dB BW 802.11n_HT20M CH-Mid

99% BW 802.11b CH-Mid



6dB BW 802.11n_HT20M CH-High

99% BW 802.11b CH-High



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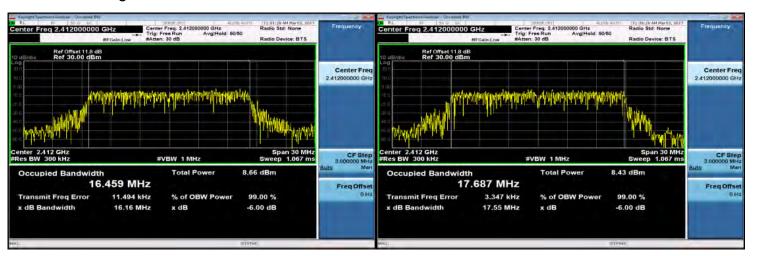
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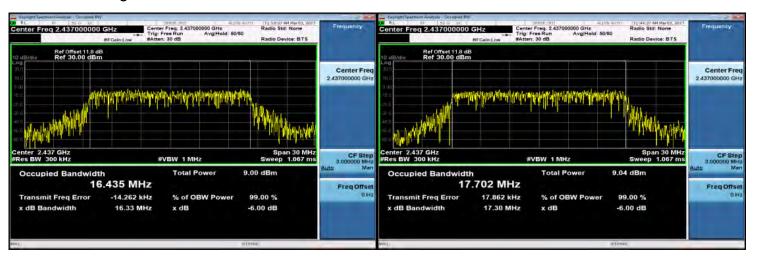
99% BW 802.11g CH-Low

99% BW 802.11n_HT20M CH-Low



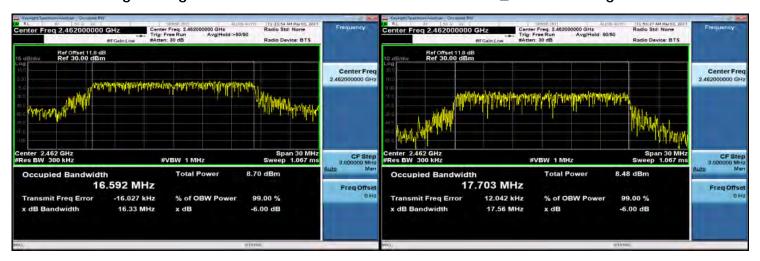
99% BW 802.11g CH-Mid

99% BW 802.11n_HT20M CH-Mid



99% BW 802.11g CH-High

99% BW 802.11n_HT20M CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

As per KDB 558074 D01 11.1 a)

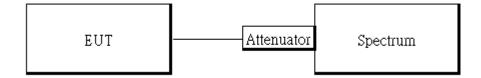
If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100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

10.2 Measurement Equipment Used

Conducted Emission Test Site								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/25/2017	02/24/2018			
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018			
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018			
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017			
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018			

10.3 Test SET-UP

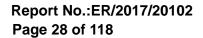


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10.4 Measurement Procedure

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.
- 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. 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. 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			Bande	Bandedge Limit 802.11g MODE			Bandedge Limit 802.11n20 MODE		
Freq.	PSD	Bandedge Limit	Freq.	PSD	Bandedge Limit	Freq.	PSD	Bandedge Limit	
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)	
2412	7.08	-12.92	2412	-2.48	-22.48	2412	-2.47	-22.47	
2462	7.68	-12.32	2462	-2.68	-22.68	2462	-2.92	-22.92	

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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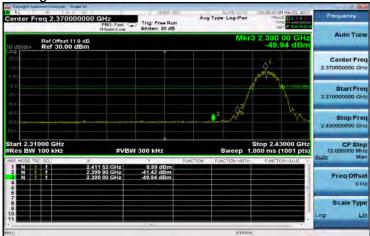
802.11n_HT20 PSD FOR BANDEDGE LIMIT (CH-Low)



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



Band Edges Test Data CH-High



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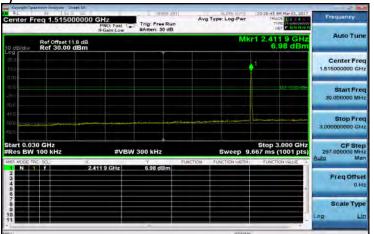
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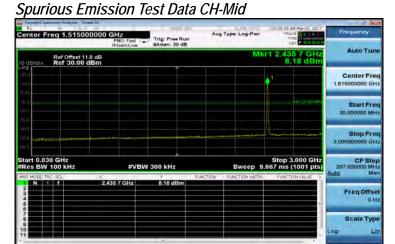
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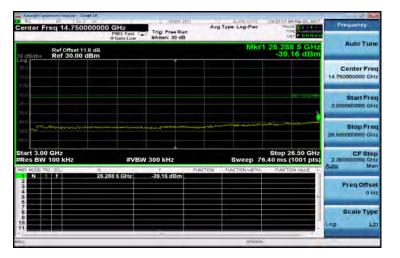


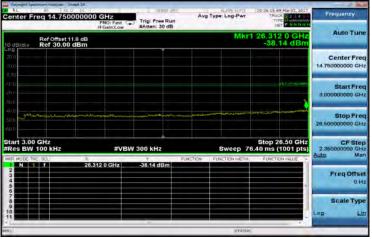


802.11b Spurious Emission Test Data CH-Low









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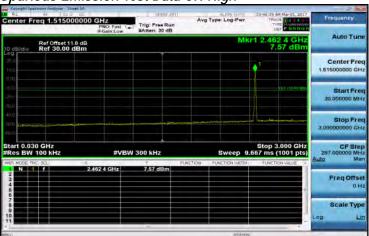
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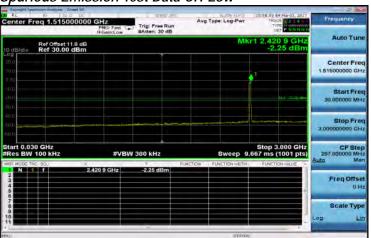


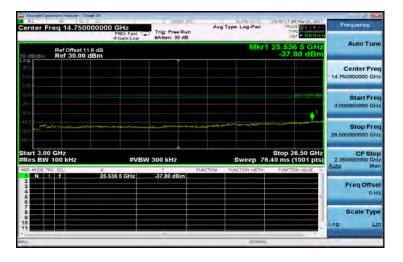


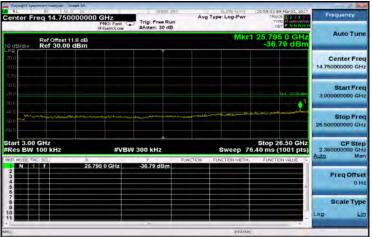
Spurious Emission Test Data CH-High











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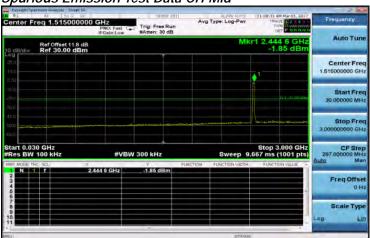
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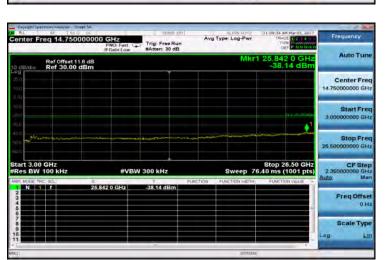
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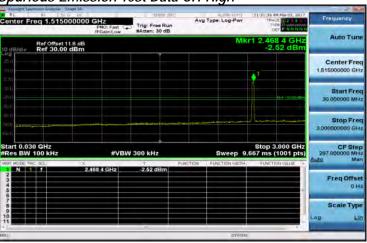


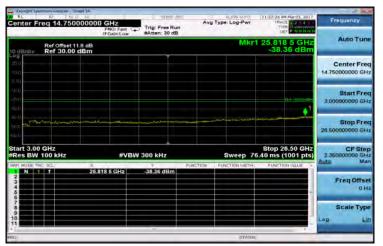
Spurious Emission Test Data CH-Mid





Spurious Emission Test Data CH-High





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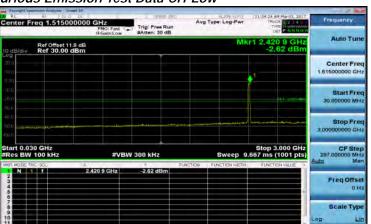
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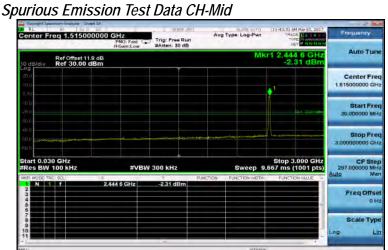
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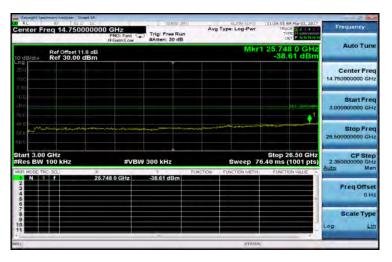


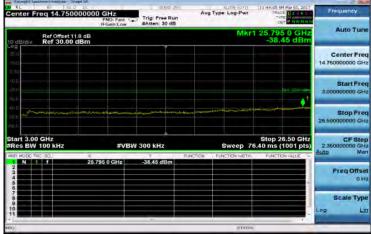


802.11n_HT20 Spurious Emission Test Data CH-Low









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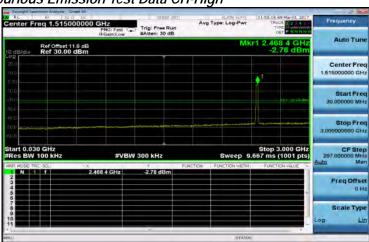
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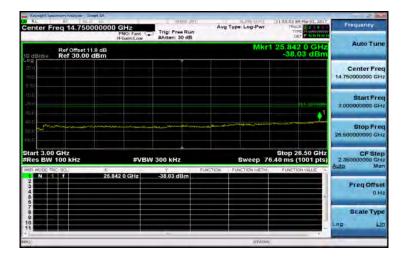
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Spurious Emission Test Data CH-High





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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Standard Applicable 11.1

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:

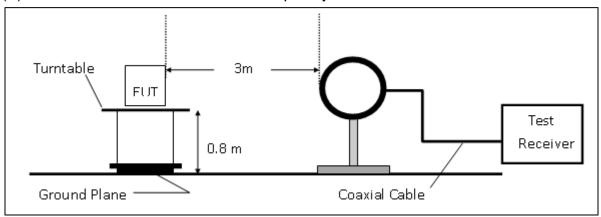
966 Chamber										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017					
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/21/2016	04/20/2017					
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017					
Bilog Antenna	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.

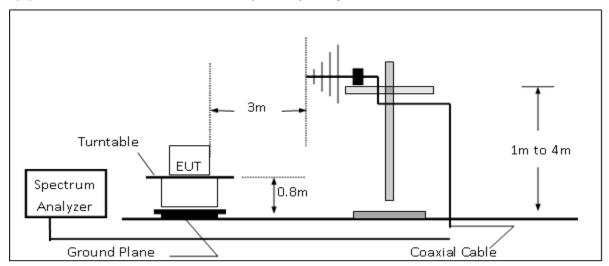


11.3 **Test SET-UP**

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



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



Turntable 3m 1m to 4m **EUT** Spectrum 1.5m Analyzer

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Absorber

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

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Coaxial Cable

Ground Plane





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	FS = Field Strength	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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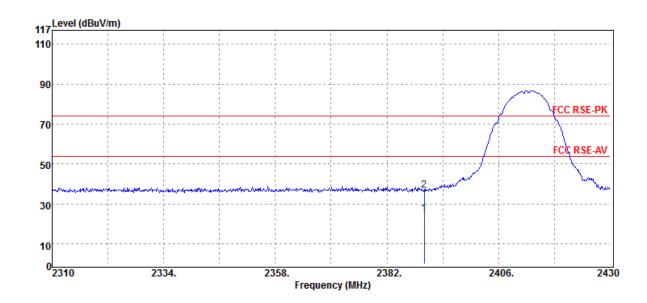
11.7.1 Radiated Band Edge Measurement Result (With WPC)

Operation Band :802.11b **Test Date** :2017-02-23

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

Operation Mode :Bandedge CH LOW Engineer :Tin

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



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	26.70	-1.74	24.96	54.00	-29.04
2390.00	E	Peak	38.59	-1.74	36.85	74.00	-37.15

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EUT Pol.

:802.11b :2412 MHz

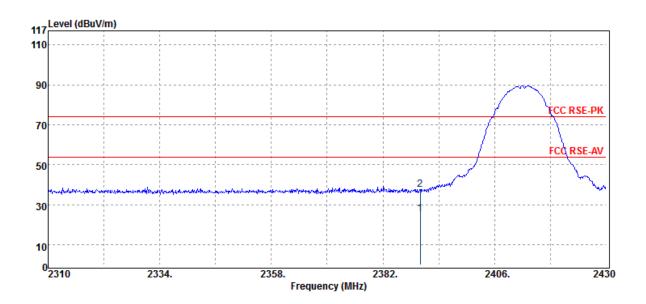
:Bandedge CH LOW

:H Plane

Test Date :2017-02-23 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	27.10	-1.74	25.36	54.00	-28.64
2390.00	E	Peak	39.32	-1.74	37.58	74.00	-36.42

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EUT Pol.

:802.11b :2462 MHz

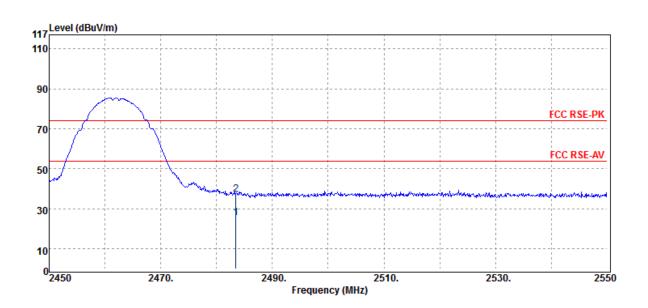
:Bandedge CH HIGH

:H Plane

Test Date :2017-02-23 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	27.16	-1.62	25.54	54.00	-28.46
2483.50	E	Peak	38.86	-1.62	37.24	74.00	-36.76

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EUT Pol.

:802.11b :2462 MHz

:Bandedge CH HIGH

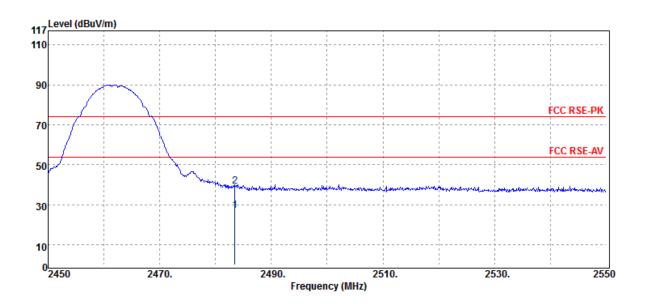
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	28.81	-1.62	27.19	54.00	-26.81
2483.50	E	Peak	40.73	-1.62	39.11	74.00	-34.89

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EUT Pol.

:802.11g :2412 MHz

:Bandedge CH LOW

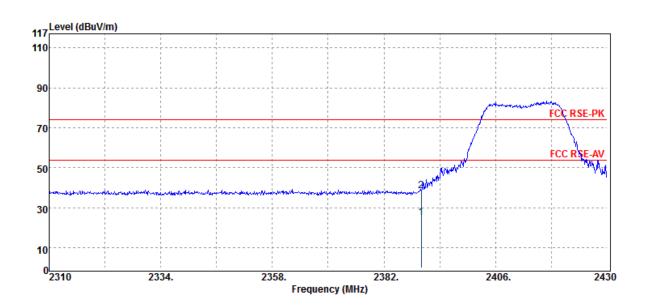
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	Е	Average	26.80	-1.74	25.06	54.00	-28.94
2390.00	Е	Peak	40.21	-1.74	38.47	74.00	-35.53

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EUT Pol.

:802.11g :2412 MHz

:Bandedge CH LOW

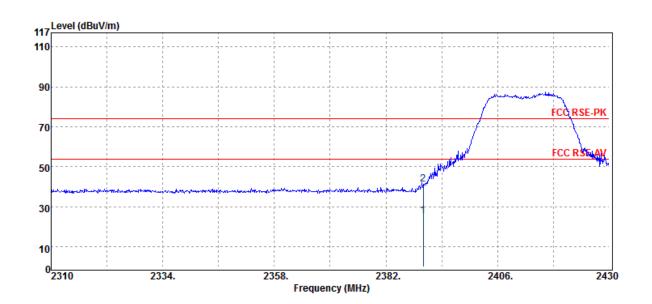
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	27.14	-1.74	25.40	54.00	-28.60
2390.00	Е	Peak	42.98	-1.74	41.24	74.00	-32.76

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EUT Pol.

:802.11g :2462 MHz :Bandedge CH HIGH

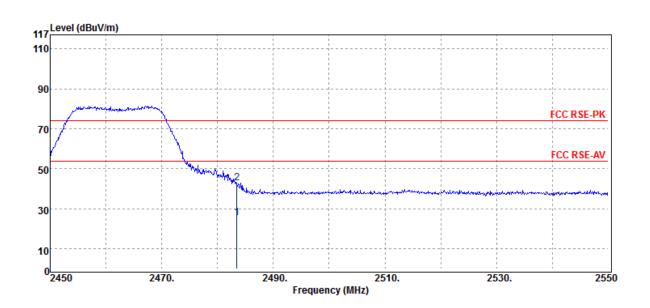
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	27.17	-1.62	25.55	54.00	-28.45
2483.50	Е	Peak	44.45	-1.62	42.83	74.00	-31.17

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Operation Mode EUT Pol.

:802.11g :2462 MHz

:Bandedge CH HIGH

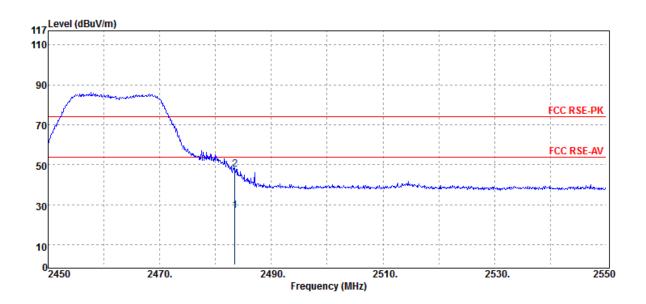
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	28.68	-1.62	27.06	54.00	-26.94
2483.50	E	Peak	49.27	-1.62	47.65	74.00	-26.35

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Operation Mode EUT Pol.

:802.11n20 :2412 MHz

:Bandedge CH LOW

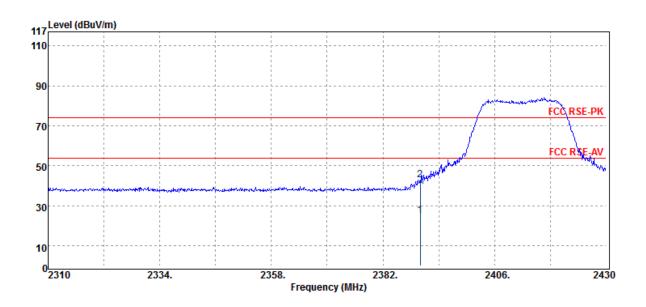
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
2390.00	E	Average	27.02	-1.74	25.28	54.00	-28.72
2390.00	E	Peak	44.48	-1.74	42.74	74.00	-31.26

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Operation Mode EUT Pol.

:802.11n20 :2412 MHz

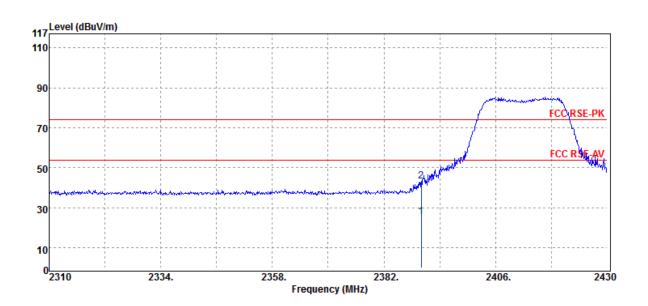
:Bandedge CH LOW

:H Plane

Test Date :2017-02-23 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
2390.00	E	Average	27.45	-1.74	25.71	54.00	-28.29
2390.00	E	Peak	44.98	-1.74	43.24	74.00	-30.76

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Operation Mode EUT Pol.

:802.11n20 :2462 MHz

:Bandedge CH HIGH

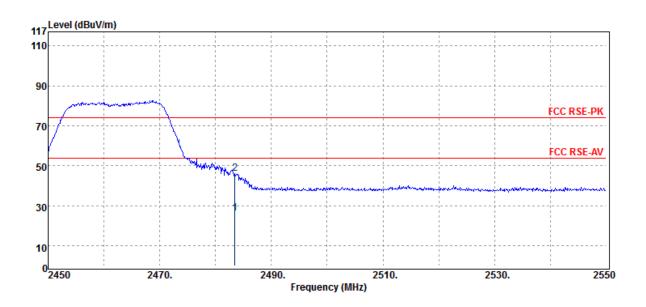
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	27.75	-1.62	26.13	54.00	-27.87
2483.50	E	Peak	47.69	-1.62	46.07	74.00	-27.93

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Operation Mode EUT Pol.

:802.11n20 :2462 MHz

:Bandedge CH HIGH

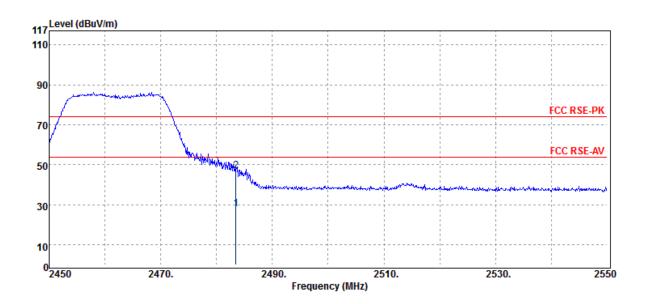
:H Plane

Test Date :2017-02-23

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{dB}\mu\mathrm{V}$	dB	dBµV/m	dBμV/m	dB
2483.50	E	Average	29.50	-1.62	27.88	54.00	-26.12
2483.50	E	Peak	48.66	-1.62	47.04	74.00	-26.96

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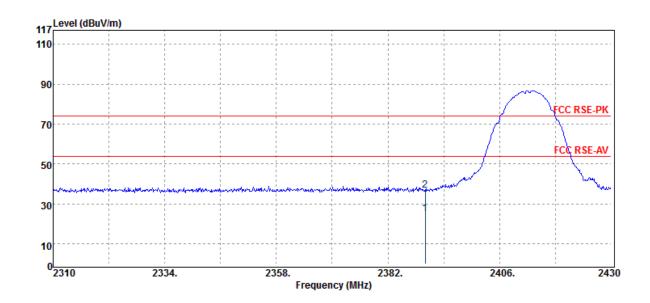
11.7.2 Radiated Band Edge Measurement Result (Without WPC)

Operation Band :802.11b **Test Date** :2017-03-02

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

Operation Mode :Bandedge CH LOW Engineer :Tin

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



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	26.72	-1.74	24.98	54.00	-29.02
2390.00	E	Peak	38.64	-1.74	36.90	74.00	-37.10

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:802.11b :2412 MHz

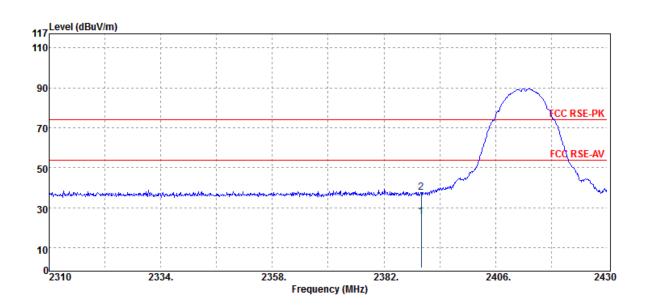
:Bandedge CH LOW

EUT Pol. :H Plane **Test Date** :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	27.15	-1.74	25.41	54.00	-28.59
2390.00	E	Peak	39.41	-1.74	37.67	74.00	-36.33

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Operation Mode EUT Pol.

:802.11b :2462 MHz

:Bandedge CH HIGH

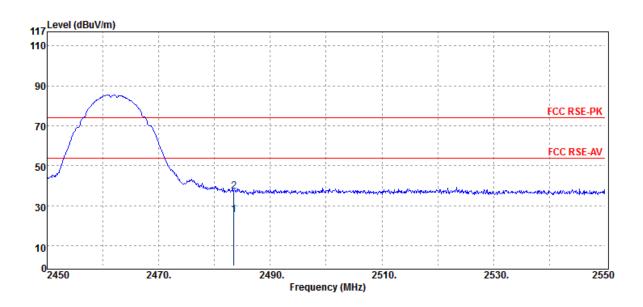
:H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	27.12	-1.62	25.50	54.00	-28.50
2483.50	E	Peak	38.81	-1.62	37.19	74.00	-36.81

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EUT Pol.

:802.11b :2462 MHz

:Bandedge CH HIGH

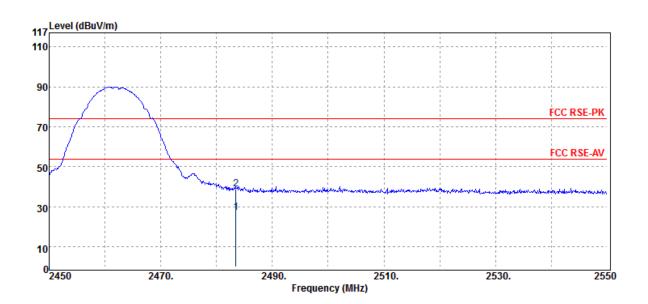
:H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	28.74	-1.62	27.12	54.00	-26.88
2483.50	E	Peak	40.65	-1.62	39.03	74.00	-34.97

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EUT Pol.

:802.11g :2412 MHz

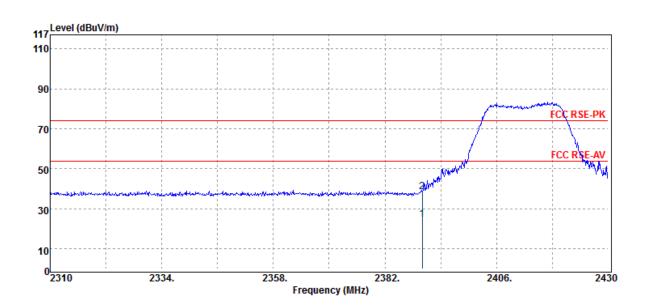
:Bandedge CH LOW

:H Plane

Test Date :2017-03-02

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

: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	$\mathrm{d} B \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	26.47	-1.74	24.73	54.00	-29.27
2390.00	Е	Peak	40.12	-1.74	38.38	74.00	-35.62

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EUT Pol.

:802.11g :2412 MHz

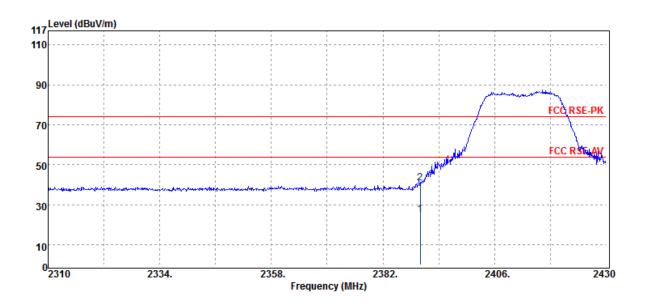
:Bandedge CH LOW

:H Plane

Test Date :2017-03-02

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

: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	$\mathrm{d} B \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	27.02	-1.74	25.28	54.00	-28.72
2390.00	Е	Peak	42.81	-1.74	41.07	74.00	-32.93

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Operation Mode EUT Pol.

:802.11g :2462 MHz

:Bandedge CH HIGH

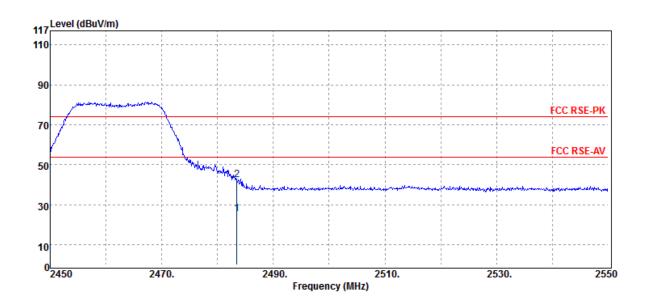
:H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	27.11	-1.62	25.49	54.00	-28.51
2483.50	E	Peak	44.32	-1.62	42.70	74.00	-31.30

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EUT Pol.

:802.11g :2462 MHz

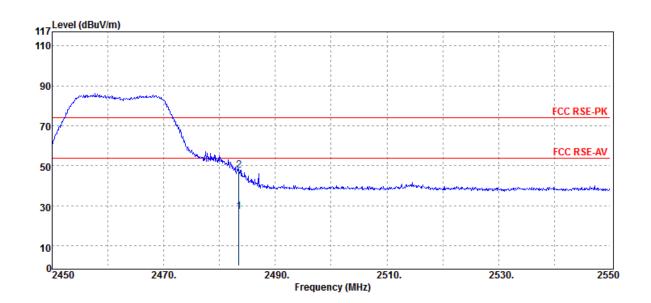
:Bandedge CH HIGH

:H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	28.63	-1.62	27.01	54.00	-26.99
2483.50	E	Peak	49.21	-1.62	47.59	74.00	-26.41

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Operation Mode EUT Pol.

:802.11n20 :2412 MHz

:Bandedge CH LOW

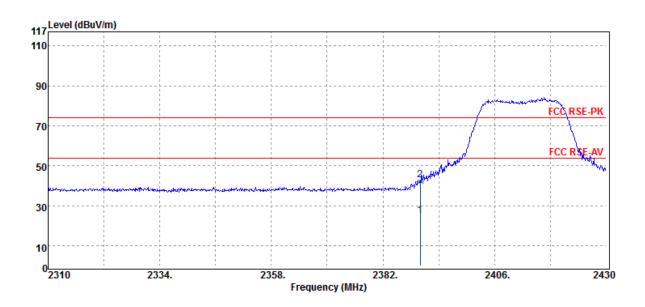
:H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	$dB\mu V/m$	dB
2390.00	E	Average	26.91	-1.74	25.17	54.00	-28.83
2390.00	E	Peak	44.56	-1.74	42.82	74.00	-31.18

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:802.11n20 :2412 MHz

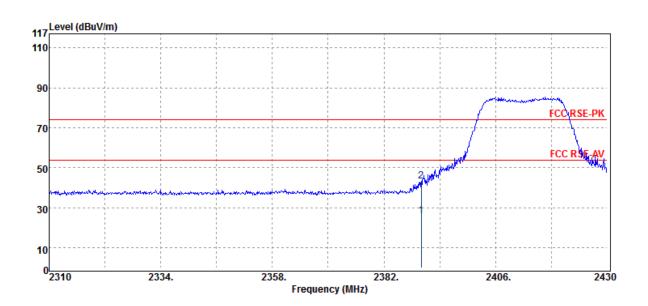
:Bandedge CH LOW

EUT Pol. :H Plane **Test Date** :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	27.64	-1.74	25.90	54.00	-28.10
2390.00	E	Peak	45.06	-1.74	43.32	74.00	-30.68

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EUT Pol.

:802.11n20 :2462 MHz

:Bandedge CH HIGH

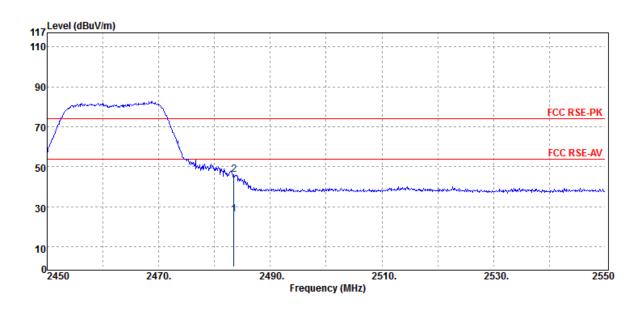
:H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
2483.50	Е	Average	27.84	-1.62	26.22	54.00	-27.78
2483.50	E	Peak	47.82	-1.62	46.20	74.00	-27.80

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Operation Mode EUT Pol.

:802.11n20 :2462 MHz

:Bandedge CH HIGH

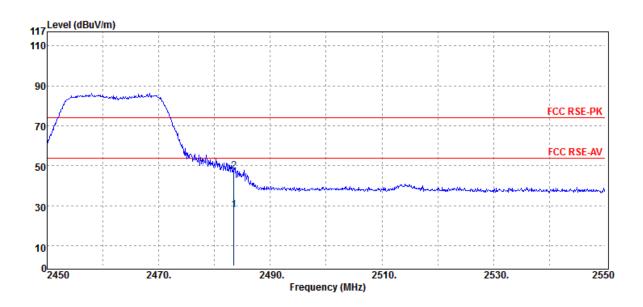
:H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	29.56	-1.62	27.94	54.00	-26.06
2483.50	E	Peak	48.79	-1.62	47.17	74.00	-26.83

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11.7.3 Below 1GHz Worst-Case Data:

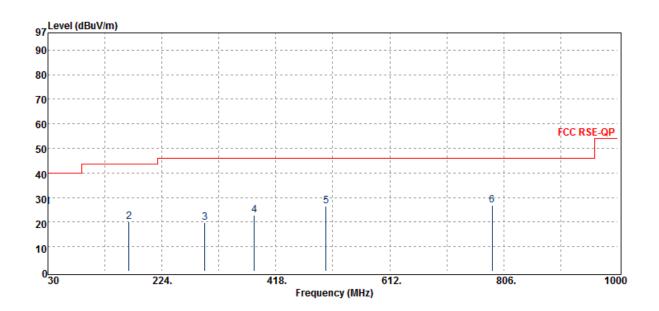
Radiated Spurious Emission Measurement Result (802.11 g) (With WPC)

Operation Band :802.11g **Test Date** :2017-03-01

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

Operation Mode :Tx CH LOW Engineer :Tin

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



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
							_
30.00	S	Peak	35.98	-9.77	26.21	40.00	-13.79
167.74	S	Peak	29.14	-8.95	20.19	43.50	-23.31
296.75	S	Peak	27.56	-7.74	19.82	46.00	-26.18
381.14	S	Peak	29.21	-6.43	22.78	46.00	-23.22
503.36	S	Peak	31.21	-4.58	26.63	46.00	-19.37
786.60	S	Peak	27.07	-0.06	27.01	46.00	-18.99

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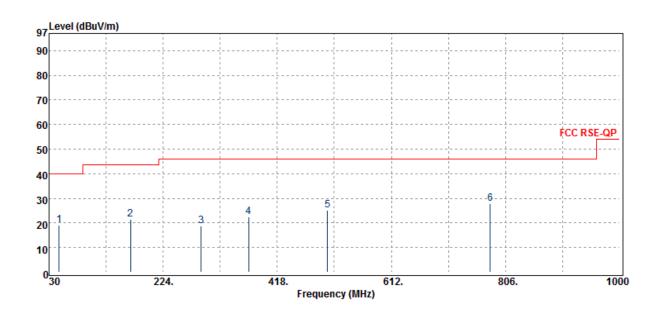
:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
							_
47.46	S	Peak	27.62	-8.57	19.05	40.00	-20.95
168.71	S	Peak	30.50	-8.95	21.55	43.50	-21.95
288.99	S	Peak	26.54	-7.89	18.65	46.00	-27.35
369.50	S	Peak	28.93	-6.59	22.34	46.00	-23.66
503.36	S	Peak	29.65	-4.58	25.07	46.00	-20.93
779.81	S	Peak	27.98	-0.01	27.97	46.00	-18.03

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:2437 MHz **Operation Mode** :Tx CH MID EUT Pol. :H Plane

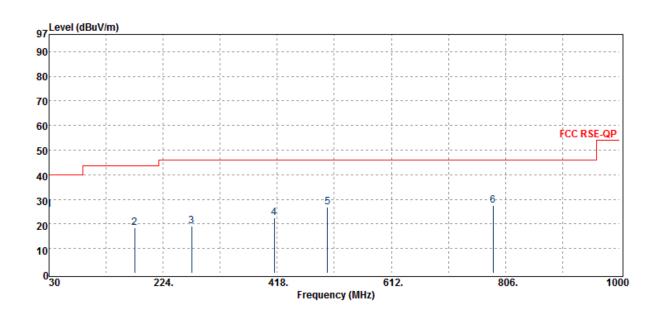
:802.11g

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
30.00	S	Peak	35.56	-9.77	25.79	40.00	-14.21
175.50	S	Peak	27.89	-9.60	18.29	43.50	-25.21
272.50	S	Peak	27.52	-8.53	18.99	46.00	-27.01
413.15	S	Peak	28.23	-5.74	22.49	46.00	-23.51
503.36	S	Peak	31.56	-4.58	26.98	46.00	-19.02
784.66	S	Peak	27.66	-0.06	27.60	46.00	-18.40

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SCS Talwan Lie*

INC 3.13 *

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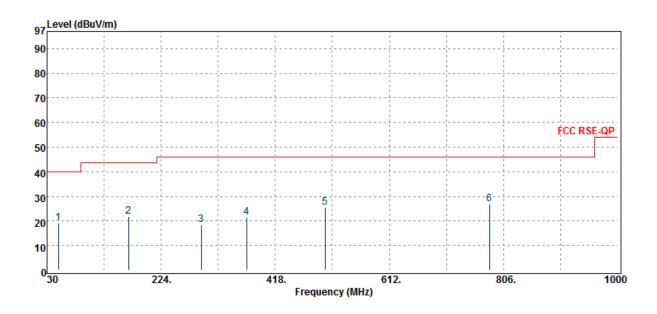
:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
							_
49.40	S	Peak	27.74	-8.45	19.29	40.00	-20.71
168.71	S	Peak	30.76	-8.95	21.81	43.50	-21.69
291.90	S	Peak	26.26	-7.85	18.41	46.00	-27.59
369.50	S	Peak	28.12	-6.59	21.53	46.00	-24.47
502.39	S	Peak	30.26	-4.65	25.61	46.00	-20.39
781.75	S	Peak	26.98	-0.03	26.95	46.00	-19.05

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EUT Pol.

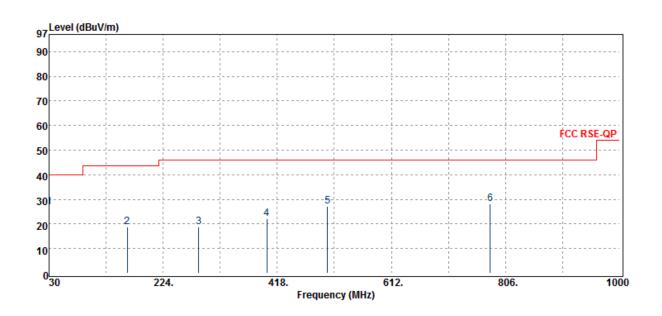
:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
							_
30.00	S	Peak	36.49	-9.77	26.72	40.00	-13.28
162.89	S	Peak	27.52	-8.86	18.66	43.50	-24.84
284.14	S	Peak	26.81	-8.01	18.80	46.00	-27.20
400.54	S	Peak	28.25	-6.00	22.25	46.00	-23.75
503.36	S	Peak	31.88	-4.58	27.30	46.00	-18.70
779.81	S	Peak	28.06	-0.01	28.05	46.00	-17.95

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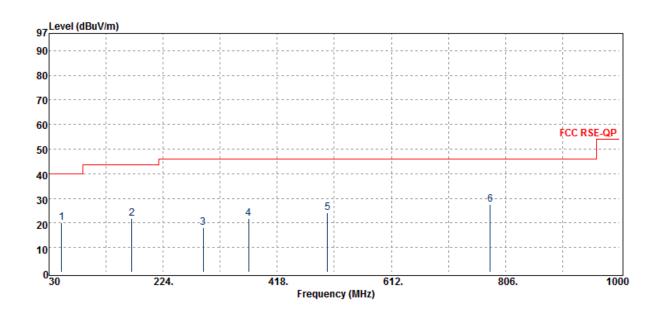


:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
							_
51.34	S	Peak	28.69	-8.47	20.22	40.00	-19.78
170.65	S	Peak	30.97	-9.04	21.93	43.50	-21.57
291.90	S	Peak	26.10	-7.85	18.25	46.00	-27.75
369.50	S	Peak	28.47	-6.59	21.88	46.00	-24.12
503.36	S	Peak	28.90	-4.58	24.32	46.00	-21.68
779.81	S	Peak	27.45	-0.01	27.44	46.00	-18.56

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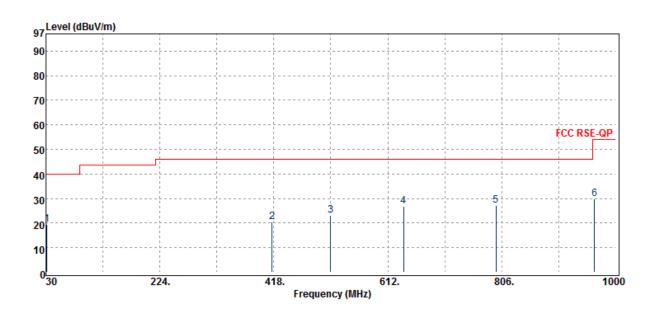
11.7.4 Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g) (With WPC)

Test Date Operation Band :802.11g :2017-03-02

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

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



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	$dB\mu V/m$	dB
							_
31.94	S	Peak	29.20	-9.71	19.49	40.00	-20.51
415.09	S	Peak	26.35	-5.73	20.62	46.00	-25.38
515.00	S	Peak	27.40	-4.36	23.04	46.00	-22.96
639.16	S	Peak	29.22	-2.46	26.76	46.00	-19.24
796.30	S	Peak	27.27	0.01	27.28	46.00	-18.72
964.11	S	Peak	27.11	2.62	29.73	54.00	-24.27

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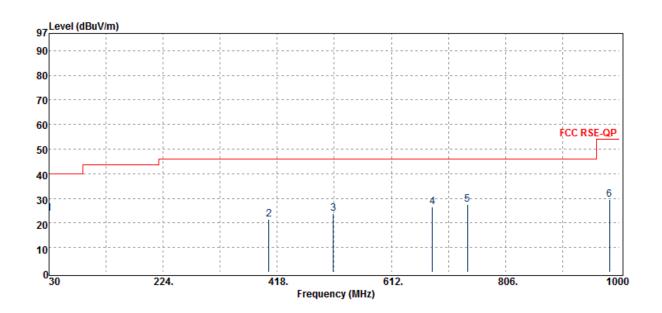
:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
30.00	S	Peak	33.52	-9.77	23.75	40.00	-16.25
403.45	S	Peak	27.27	-5.95	21.32	46.00	-24.68
513.06	S	Peak	28.19	-4.44	23.75	46.00	-22.25
681.84	S	Peak	28.35	-1.73	26.62	46.00	-19.38
741.01	S	Peak	28.28	-0.77	27.51	46.00	-18.49
982.54	S	Peak	26.96	2.62	29.58	54.00	-24.42

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EUT Pol.

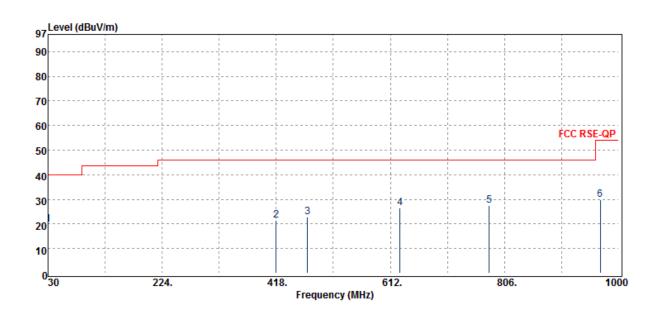
:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
30.00	S	Peak	29.72	-9.77	19.95	40.00	-20.05
418.00	S	Peak	27.07	-5.69	21.38	46.00	-24.62
471.35	S	Peak	27.85	-4.93	22.92	46.00	-23.08
628.49	S	Peak	29.04	-2.61	26.43	46.00	-19.57
779.81	S	Peak	27.62	-0.01	27.61	46.00	-18.39
968.96	S	Peak	27.20	2.63	29.83	54.00	-24.17

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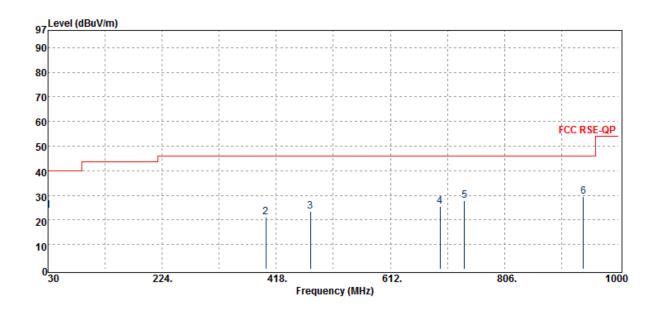


:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
30.00	S	Peak	33.46	-9.77	23.69	40.00	-16.31
400.54	S	Peak	27.00	-6.00	21.00	46.00	-25.00
476.20	S	Peak	28.17	-4.77	23.40	46.00	-22.60
696.39	S	Peak	26.93	-1.58	25.35	46.00	-20.65
738.10	S	Peak	28.62	-0.84	27.78	46.00	-18.22
939.86	S	Peak	27.43	2.04	29.47	46.00	-16.53

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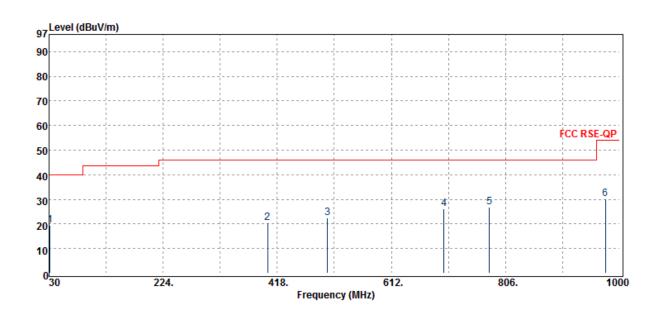


:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
31.94	S	Peak	29.19	-9.71	19.48	40.00	-20.52
401.51	S	Peak	26.54	-5.98	20.56	46.00	-25.44
503.36	S	Peak	27.06	-4.58	22.48	46.00	-23.52
701.24	S	Peak	27.74	-1.53	26.21	46.00	-19.79
778.84	S	Peak	27.05	-0.04	27.01	46.00	-18.99
975.75	S	Peak	27.44	2.65	30.09	54.00	-23.91

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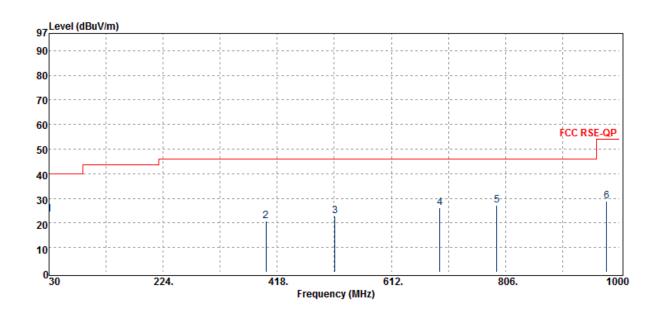
:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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
							_
30.00	S	Peak	33.30	-9.77	23.53	40.00	-16.47
398.60	S	Peak	26.91	-6.04	20.87	46.00	-25.13
515.97	S	Peak	27.26	-4.34	22.92	46.00	-23.08
694.45	S	Peak	27.70	-1.68	26.02	46.00	-19.98
791.45	S	Peak	27.29	-0.05	27.24	46.00	-18.76
977.69	S	Peak	26.19	2.64	28.83	54.00	-25.17

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11.7.5 Above 1GHz Data:

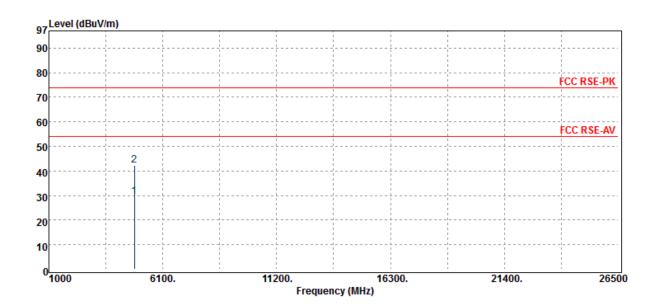
Radiated Spurious Emission Measurement Result (With WPC)

:2017-03-01 **Operation Band** :802.11b Test Date

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

Operation Mode :Tx CH LOW Engineer :Tin

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	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
4824.00	Н	Average	24.66	4.93	29.59	54.00	-24.41
4824.00	Н	Peak	37.48	4.93	42.41	74.00	-31.59

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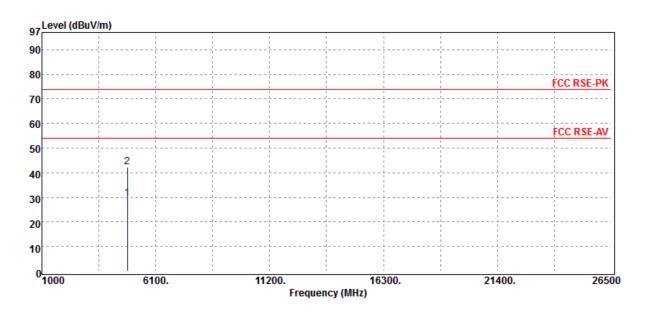


:802.11b :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.64	4.93	29.57	54.00	-24.43
4824.00	Н	Peak	37.37	4.93	42.30	74.00	-31.70

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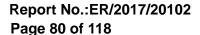
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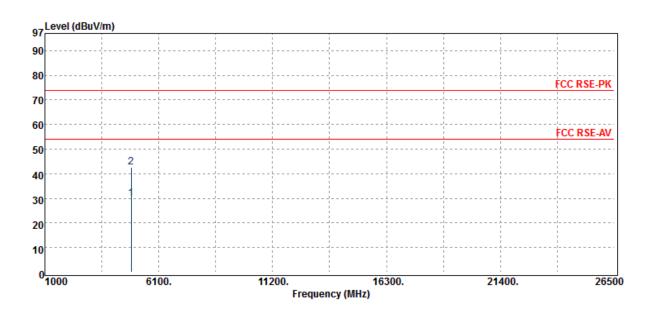
:802.11b :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.69	5.13	29.82	54.00	-24.18
4874.00	Н	Peak	37.49	5.13	42.62	74.00	-31.38

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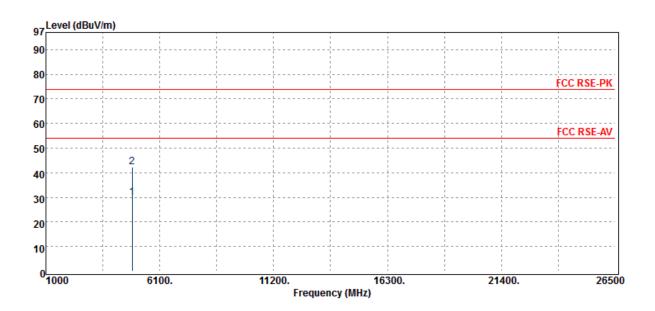


:802.11b :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.61	5.13	29.74	54.00	-24.26
4874.00	Н	Peak	37.10	5.13	42.23	74.00	-31.77

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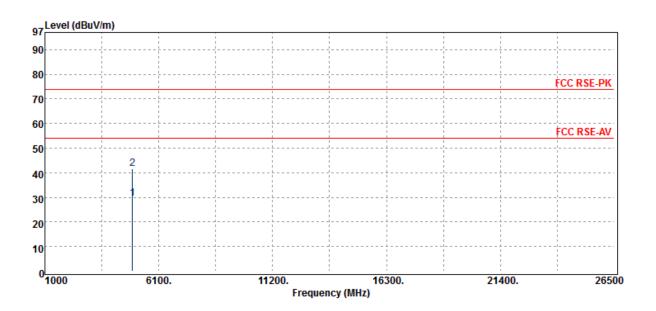
:802.11b :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.45	5.25	29.70	54.00	-24.30
4924.00	Н	Peak	36.27	5.25	41.52	74.00	-32.48

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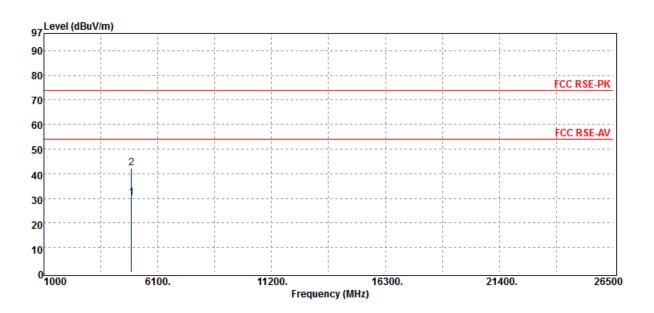


:802.11b :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.84	5.25	30.09	54.00	-23.91
4924.00	Н	Peak	36.96	5.25	42.21	74.00	-31.79

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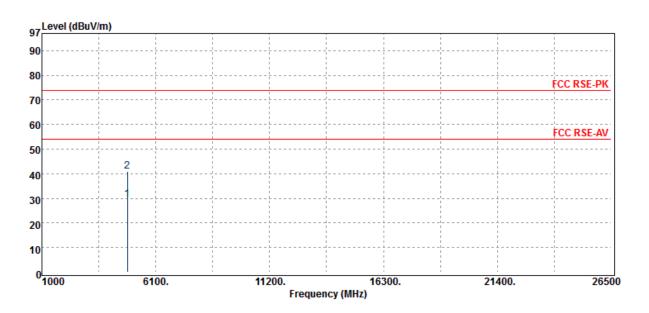
:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.57	4.93	29.50	54.00	-24.50
4824.00	Н	Peak	36.08	4.93	41.01	74.00	-32.99

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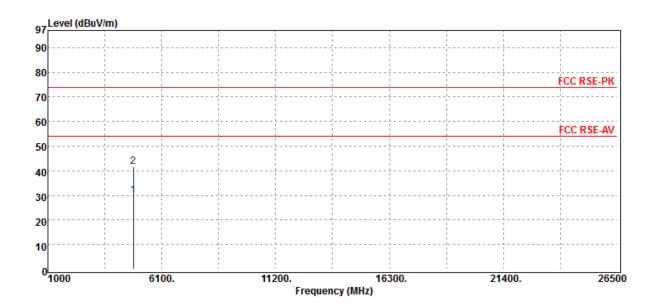


:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.80	4.93	29.73	54.00	-24.27
4824.00	Н	Peak	36.55	4.93	41.48	74.00	-32.52

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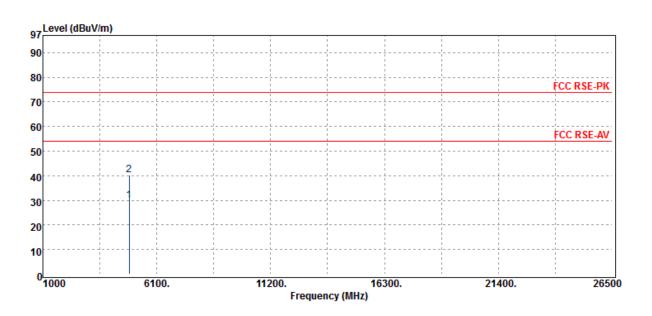
:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.59	5.13	29.72	54.00	-24.28
4874.00	Н	Peak	35.10	5.13	40.23	74.00	-33.77

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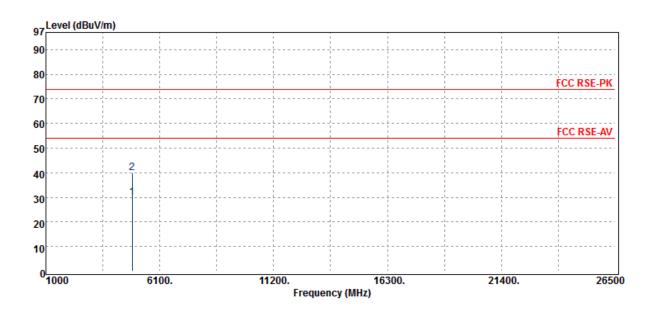


:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.71	5.13	29.84	54.00	-24.16
4874.00	Н	Peak	34.94	5.13	40.07	74.00	-33.93

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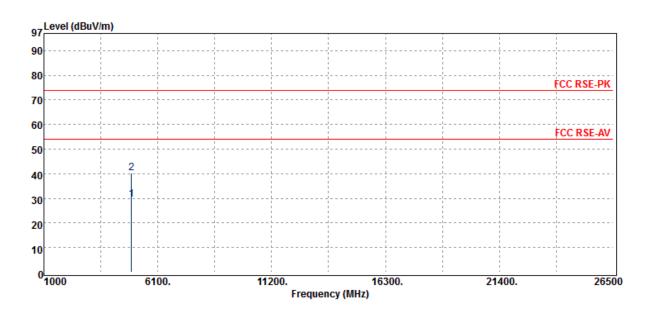
:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.35	5.25	29.60	54.00	-24.40
4924.00	Н	Peak	35.09	5.25	40.34	74.00	-33.66

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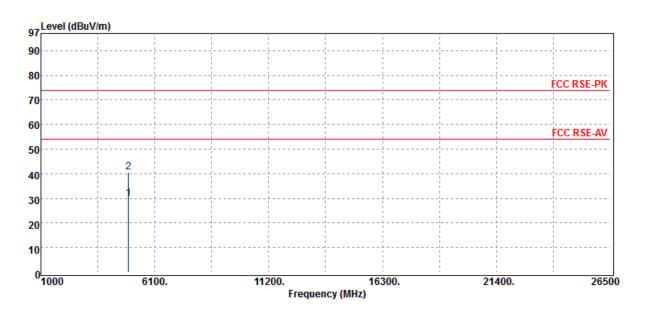


:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.51	5.25	29.76	54.00	-24.24
4924.00	Н	Peak	35.41	5.25	40.66	74.00	-33.34

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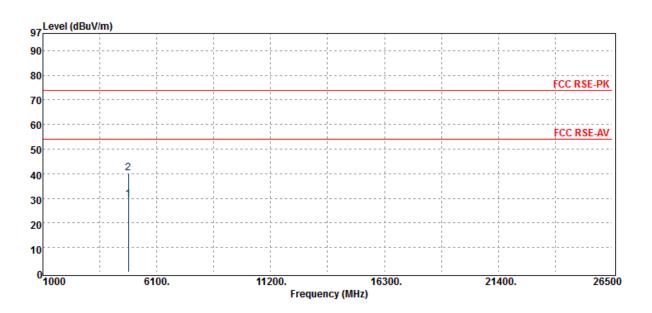
:802.11n20 :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.48	4.93	29.41	54.00	-24.59
4824.00	Н	Peak	35.51	4.93	40.44	74.00	-33.56

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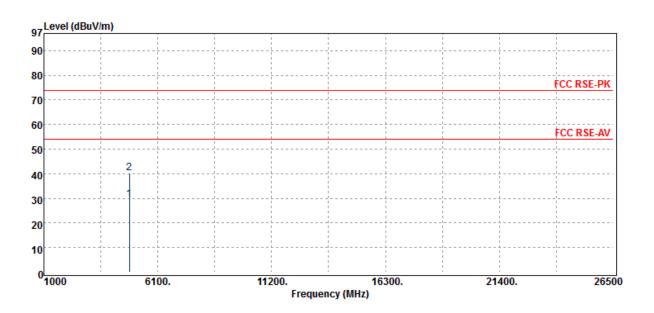


:802.11n20 :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.64	4.93	29.57	54.00	-24.43
4824.00	Н	Peak	35.34	4.93	40.27	74.00	-33.73

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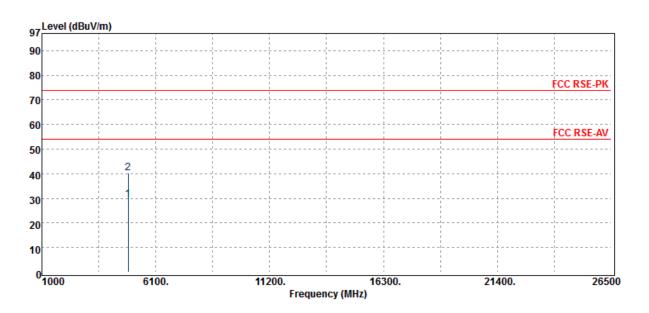
:802.11n20 :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.44	5.13	29.57	54.00	-24.43
4874.00	Н	Peak	35.13	5.13	40.26	74.00	-33.74

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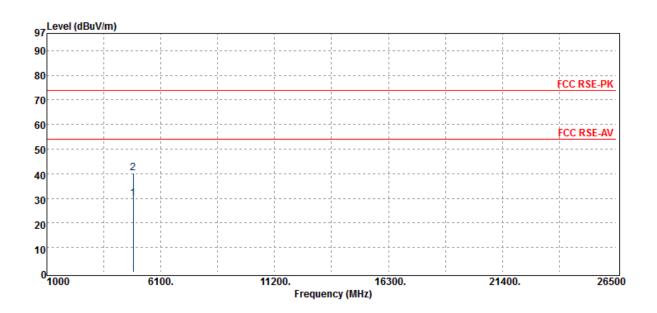


:802.11n20 :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.69	5.13	29.82	54.00	-24.18
4874.00	Н	Peak	35.03	5.13	40.16	74.00	-33.84

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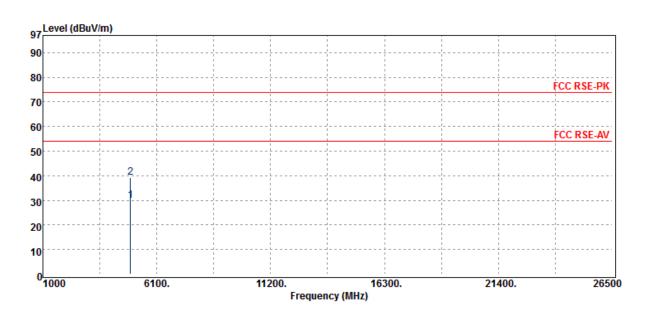
:802.11n20 :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.57	5.25	29.82	54.00	-24.18
4924.00	Н	Peak	34.14	5.25	39.39	74.00	-34.61

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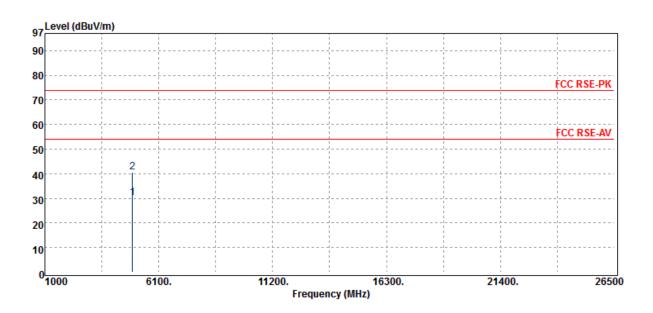


:802.11n20 :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-01 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.89	5.25	30.14	54.00	-23.86
4924.00	Н	Peak	35.29	5.25	40.54	74.00	-33.46

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11.7.6 Above 1GHz Data:

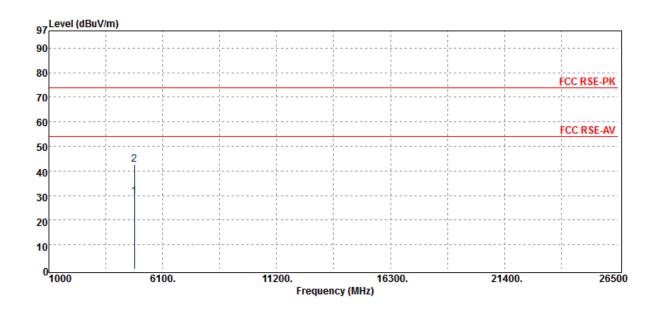
Radiated Spurious Emission Measurement Result (Without WPC)

:2017-03-02 **Operation Band** :802.11b Test Date

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

Operation Mode :Tx CH LOW Engineer :Tin

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	24.50	4.93	29.43	54.00	-24.57
4824.00	Н	Peak	37.57	4.93	42.50	74.00	-31.50

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台灣檢驗科技股份有限公司



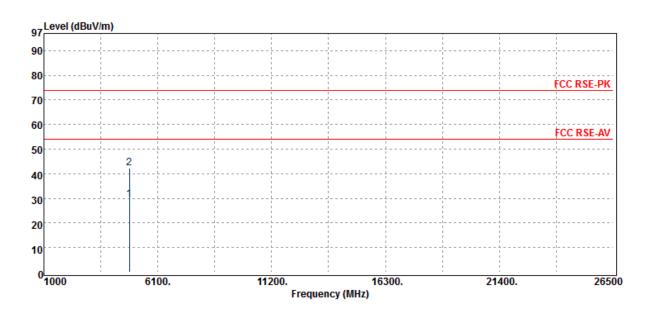


:802.11b :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.70	4.93	29.63	54.00	-24.37
4824.00	Н	Peak	37.43	4.93	42.36	74.00	-31.64

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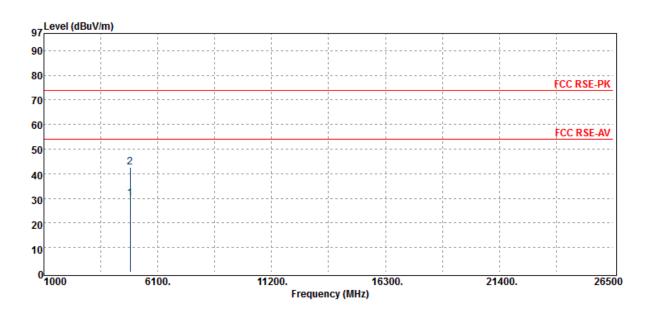
:802.11b :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.78	5.13	29.91	54.00	-24.09
4874.00	Н	Peak	37.62	5.13	42.75	74.00	-31.25

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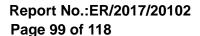
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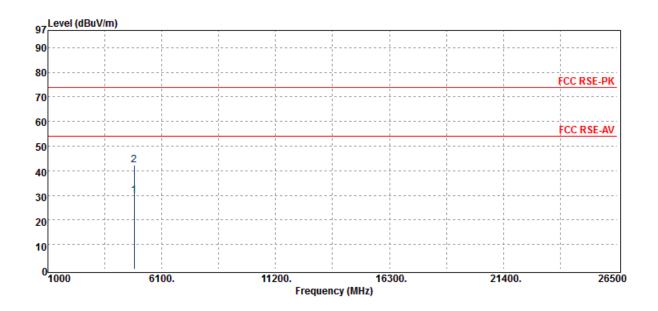


:802.11b :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.75	5.13	29.88	54.00	-24.12
4874.00	Н	Peak	37.02	5.13	42.15	74.00	-31.85

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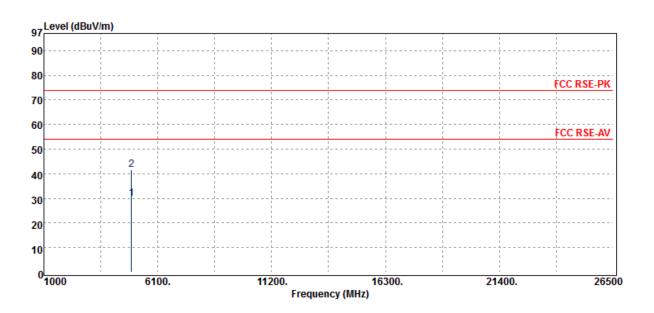


:802.11b :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.52	5.25	29.77	54.00	-24.23
4924.00	Н	Peak	36.31	5.25	41.56	74.00	-32.44

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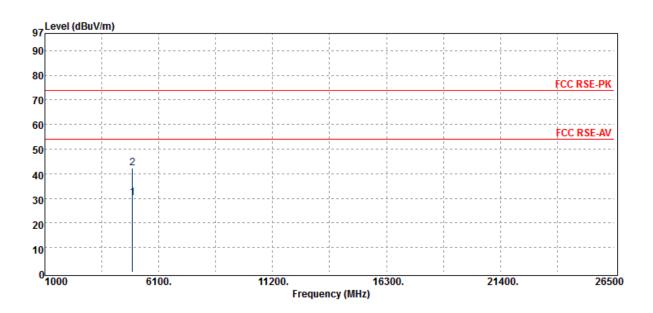


:802.11b :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.91	5.25	30.16	54.00	-23.84
4924.00	Н	Peak	36.99	5.25	42.24	74.00	-31.76

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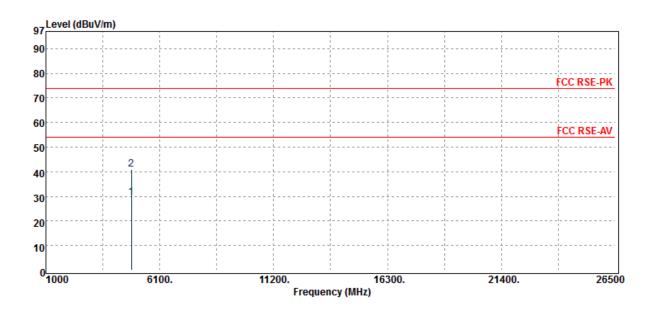
EUT Pol.

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

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	36.02	4.93	40.95	74.00	-33.05

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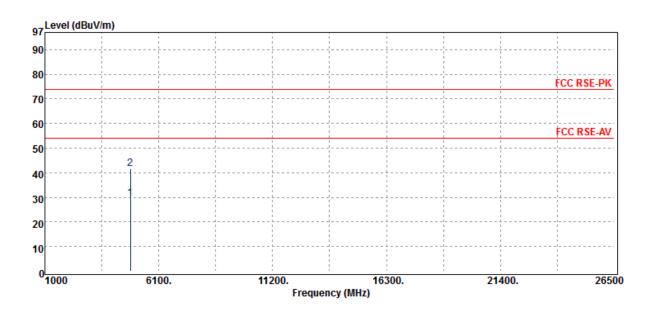


:802.11g :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.73	4.93	29.66	54.00	-24.34
4824.00	Н	Peak	36.60	4.93	41.53	74.00	-32.47

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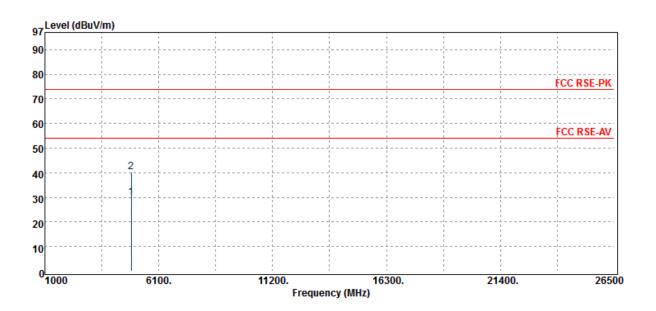


:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.65	5.13	29.78	54.00	-24.22
4874.00	Н	Peak	35.24	5.13	40.37	74.00	-33.63

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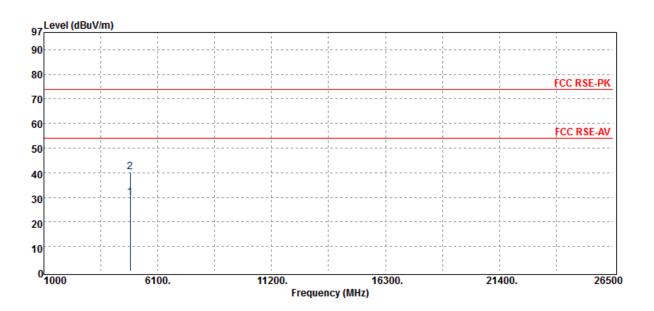


:802.11g :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.77	5.13	29.90	54.00	-24.10
4874.00	Н	Peak	34.98	5.13	40.11	74.00	-33.89

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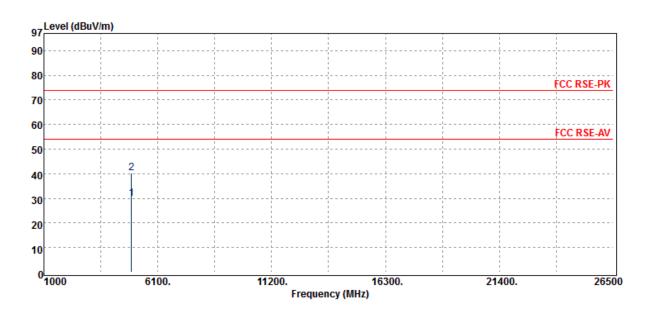
:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.46	5.25	29.71	54.00	-24.29
4924.00	Н	Peak	35.16	5.25	40.41	74.00	-33.59

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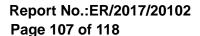
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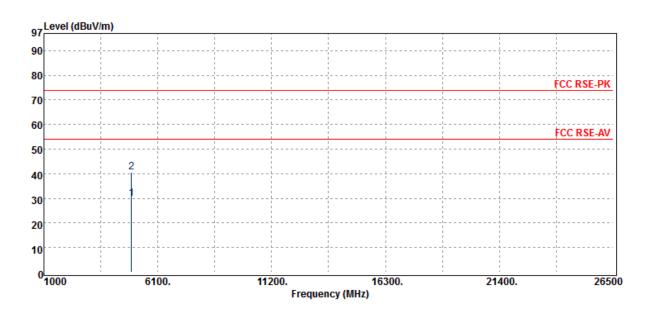


:802.11g :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.62	5.25	29.87	54.00	-24.13
4924.00	Н	Peak	35.46	5.25	40.71	74.00	-33.29

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EUT Pol.

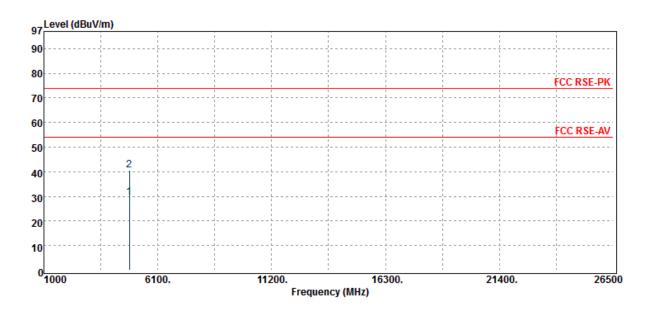
:802.11n20 :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	35.65	4.93	40.58	74.00	-33.42

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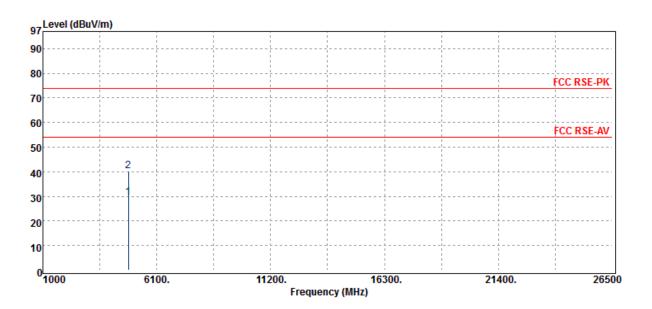


:802.11n20 :2412 MHz :Tx CH LOW :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.72	4.93	29.65	54.00	-24.35
4824.00	Н	Peak	35.42	4.93	40.35	74.00	-33.65

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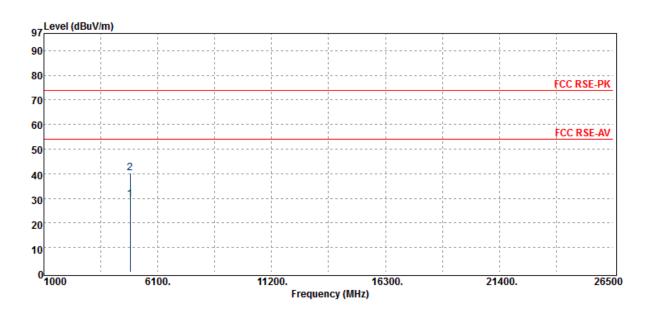
:802.11n20 :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02

Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.49	5.13	29.62	54.00	-24.38
4874.00	Н	Peak	35.21	5.13	40.34	74.00	-33.66

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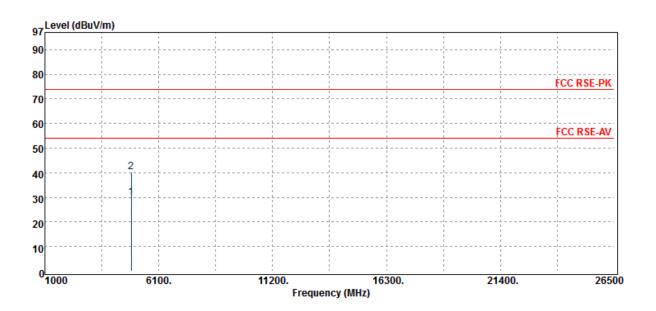


:802.11n20 :2437 MHz :Tx CH MID :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.75	5.13	29.88	54.00	-24.12
4874.00	Н	Peak	35.09	5.13	40.22	74.00	-33.78

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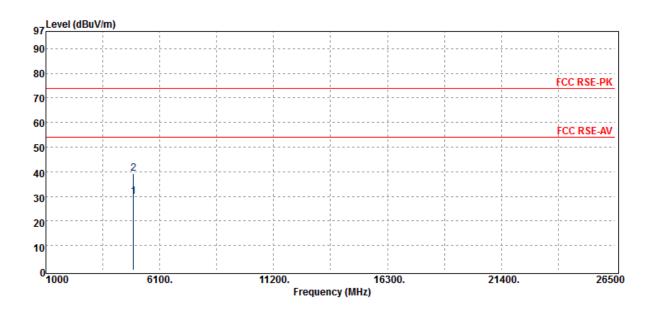


:802.11n20 :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.64	5.25	29.89	54.00	-24.11
4924.00	Н	Peak	34.10	5.25	39.35	74.00	-34.65

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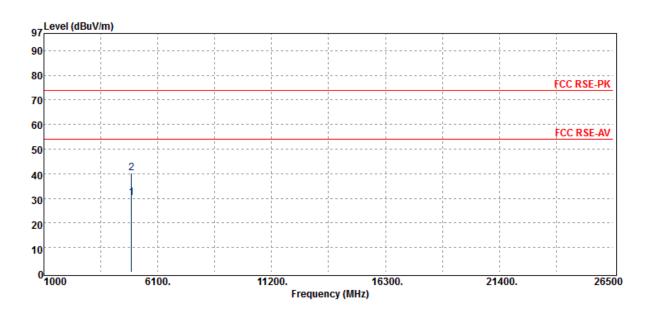


:802.11n20 :2462 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-02 Temp./Humi. :23 deg_C / 62 RH

Engineer

: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	24.93	5.25	30.18	54.00	-23.82
4924.00	Н	Peak	35.17	5.25	40.42	74.00	-33.58

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12 PEAK POWER SPECTRAL DENSITY

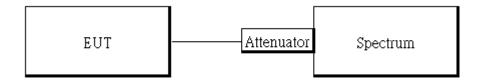
12.1 Standard Applicable

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 Ana- lyzer	Agilent	N9030A	MY53120760	02/25/2017	02/24/2018					
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018					
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018					
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017					
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018					

12.3 Test Set-up



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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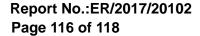


12.5 **Measurement Result**

POWER DENSITY 802.11b MODE				POWER DENSITY 802.11g MODE				POWER DENSITY 802.11n HT20 MODE			
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
2412	-5.81	8.00	PASS	2412	-15.11	8.00	PASS	2412	-15.30	8.00	PASS
2437	-4.86	8.00	PASS	2437	-14.99	8.00	PASS	2437	-15.04	8.00	PASS
2462	-5.26	8.00	PASS	2462	-15.09	8.00	PASS	2462	-15.74	8.00	PASS

^{*}Refer to next page for plots

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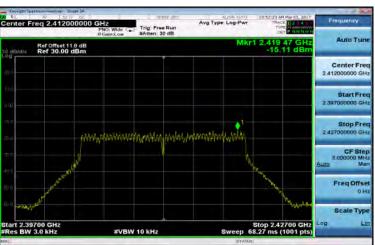




802.11b CH-Low



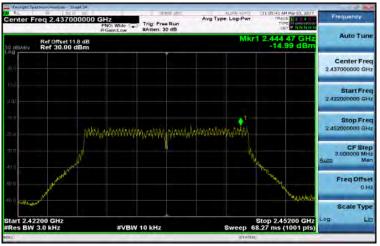
802.11g CH-Low



802.11b CH-Mid



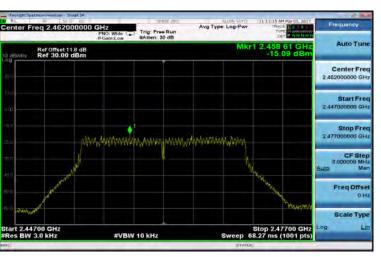
802.11g CH-Mid



802.11b CH-High



802.11q CH-High



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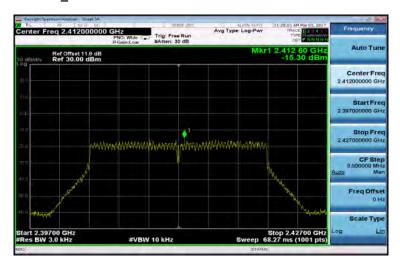
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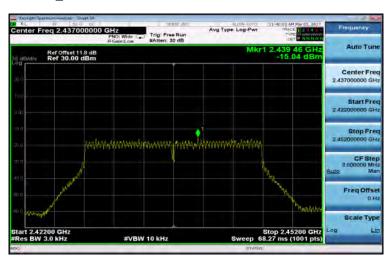
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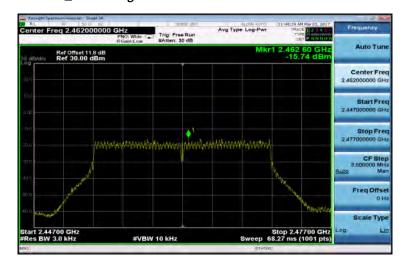
802.11n_20 CH-Low



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.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

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

~ End of Report ~

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