



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Cal-Comp Big Data, Inc. Applicant:

5F., No.99, Sec. 5, Nanjing E. Rd., Songshan Dist., Taipei City 10571,

Taiwan (R.O.C.)

HiMirror Enterprise Pro **Product Name:**

Brand Name: HiMirror Model No.: BM700 **Model Difference:** N/A

FCC ID: 2AJTF-BM700 IC: 21978-BM700 **Report Number:** E2/2018/B0022 **FCC Rule Part:** §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Dec. 26, 2018 Issue Date:

Date of Test: Nov. 05, 2018 ~ Nov. 26, 2018

Date of EUT Received: Nov. 05, 2018

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.

Tested By:

Aken Huang / Engineer

Approved By:

Jazz Huang / Asst. Supervisor





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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/B0022	Rev.00	Initial creation of docu- ment	All	Dec. 03, 2018	Yuri Tsai
E2/2018/B0022	Rev.01	Add note	45	Dec. 17, 2018	Yuri Tsai
E2/2018/B0022	Rev.02	Updated g mode peak output power	4	Dec. 26, 2018	Yuri Tsai

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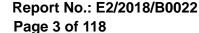




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GENERAL INFORMATION

1.1 Product description

General:

General.	
Product Name:	HiMirror Enterprise Pro
Brand Name:	HiMirror
Model No.:	BM700
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
	12Vdc from AC/DC Adapter
Power Supply:	1. Model No.: KSA-36W-120300HU, Supplier: Kuantech (Beihai) Co., Ltd. 2. Model No.: WA-36A12FU, Supplier: Asian Power Devices Inc.

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Type of Emission	Modulation Technology
802.11b			19.38	18.99	10M3G1D	DSSS,
802.11g	2412-2462	11	21.20	15.29	16M5D1D	
802.11n HT20			24.20	21.08	17M5D1D	OFDM
802.11n HT40	2422-2452	9	24.16	21.9	36M3D1D	
Antenna	Designation:	PCB Antenna, Peak Gain: 3.37dBi (Main), 3.36dBi (
Modulati	on type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Transitio	n Rate:	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 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps				

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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 v05

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5 Apr. 2018

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.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

(TAF code 0513)

FCC Registration and Designation number are: 735305 / TW0002

Canada Registration Number: 4620E-1

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 a 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 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 **Conducted Test (RF)**

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 **Radiated Emissions**

The EUT is a placed on a 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.

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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 and attenuator.

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

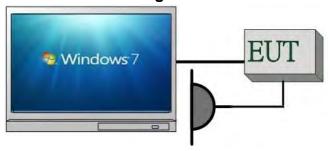


Fig.2-3 Conducted Emission (Antenna Port) Configuration

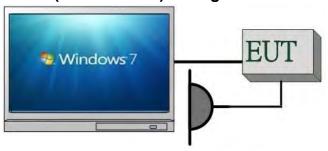


Fig. 2-2 Conducted Emission (AC Power Line) Configuration

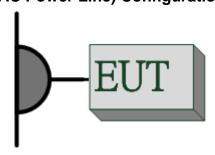


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	S0011721	N/A	Un-Shielded

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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 §5.1 (1) RSS-Gen §6.7	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	RSS-247 §5.5 RSS-Gen §8.10	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	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 §6.8	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

<u> </u>	•	•	
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		

7 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 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)	ANTENNA PORT	
802.11g	1 to 11	1,6,11	OFDM	6	Ch0	
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO	

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch1	
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0	
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MIMO	
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO	

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)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch1
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

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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 Edge	+/- 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: +/-2.87dB
	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: +/-2.87dB
	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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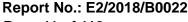
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CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

6.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
LISN	TESEQ	NNB 51	36076	2018/02/14	2019/02/13				
EMI Test Receiver	R&S	ESCI	101343	2018/07/31	2019/07/30				
Coaxial Cable	EMC In- struments Corp	EMC5D-BM-BM-30 00	1401004	2018/05/25	2019/05/24				

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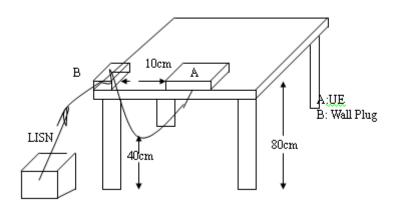
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^{1.} The lower limit shall apply at the transition frequencies

^{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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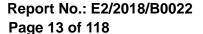
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Site: Conduction Room B

Phase: LI AC 120V/60Hz

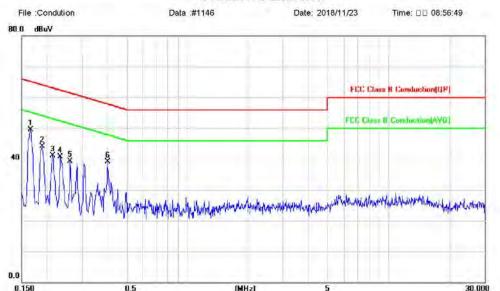
Temperature: 23 □ Humidity:

Limit: FCC Class B Conduction(QP) Mode:

Note:

Conducted Emission

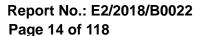
Power:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1660	29.91	19.68	49.59	65.16	-15.57	peak		
2		0.1900	24.39	19.72	44.11	64.04	-19.93	peak		
3		0.2140	21.44	19.76	41.20	63,05	-21.85	peak		
4		0.2340	20.81	19.80	40.61	62.31	-21.70	peak		
5	1	0.2620	19.51	19.84	39.35	61.37	-22.02	peak		
6		0.4020	19.05	20.07	39.12	57.81	-18.69	peak		

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Conduction Room B

Limit: FCC Class B Conduction(QP)

Phase: Power:

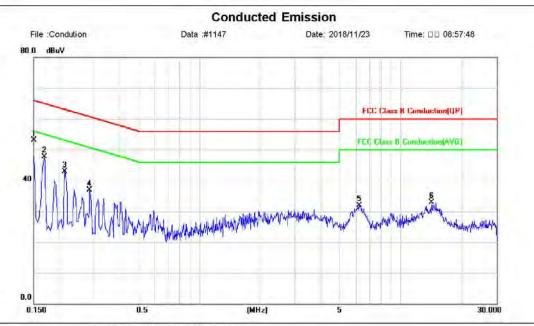
N AC 120V/60Hz Temperature:

Humidity: 57 %

23 □

Mode:

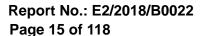
Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	33.38	19.64	53.02	66.00	-12.98	peak		
2		0.1700	27.97	19.67	47.64	64.96	-17.32	peak		
3		0.2140	23.26	19.74	43.00	63.05	-20.05	peak		
4		0.2860	17.00	19.86	36.86	60.64	-23.78	peak		
5	11 1	6.2500	11.86	19.96	31.82	60.00	-28.18	peak		
6		14.2380	12.83	19.99	32.82	60.00	-27.18	peak		
_										

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Conduction Room B

L1

Temperature:

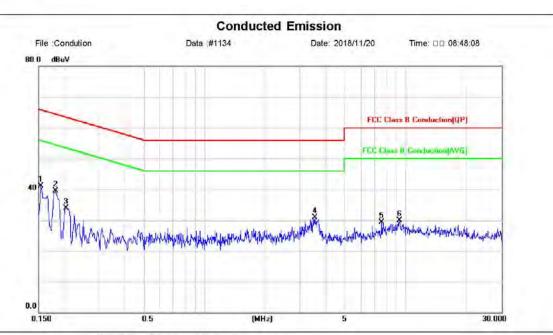
Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Phase:

Humidity: 65 %

Mode: Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	•	0.1540	21.46	19.66	41.12	65.78	-24.66	peak		
2		0.1820	19.87	19.70	39.57	64.39	-24.82	peak		
3	-	0.2060	14.15	19.75	33.90	63.37	-29.47	peak		
4	1	3.5380	10.59	20.27	30.86	56.00	-25.14	peak		
5		7.6300	9.32	19.97	29.29	60.00	-30.71	peak		
6		9.3340	9.88	19.95	29.83	60.00	-30.17	peak		
_										

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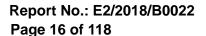
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INC 3.13 *

**INC 3.13 **

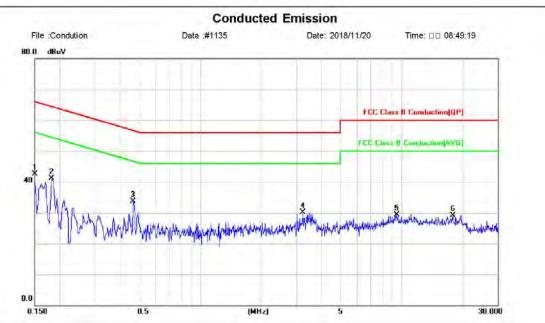
**INC 3.13





22 🗆 Conduction Room B Phase: N Temperature: AC 120V/60Hz Humidity: 65 % Limit: FCC Class B Conduction(QP) Power:

Mode: Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	22.80	19.64	42.44	66.00	-23.56	peak	
2		0.1820	21.47	19.69	41.16	64.39	-23.23	peak	
3	•	0.4660	13.45	20.16	33.61	56.58	-22.97	peak	
4		3.2300	9.75	20.30	30.05	56.00	-25,95	peak	
5		9.4740	9,45	19.94	29.39	60.00	-30.61	peak	
6		17.9740	9.12	20.04	29.16	60.00	-30.84	peak	

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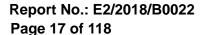
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**INC 3.13





DUTY CYCLE OF TEST SIGNAL

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

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

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
802.11b	98.80	0.05	0.12	0.01
802.11g	93.18	0.31	0.72	1.00
802.11n_20	92.90	0.32	0.77	1.00
802.11n_40	86.64	0.62	1.57	2.00

b = 98.8%, g = 93.18%,n_ht_20 = 92.9%n_ht_40 = 86.64%

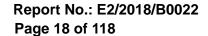
Duty Cycle Factor: $10 * \log(1/0.988) = 0.05$ Duty Cycle Factor: $10 * \log(1/0.9318) = 0.31$ Duty Cycle Factor: $10 * \log(1/0.929) = 0.32$ Duty Cycle Factor: $10 * \log(1/0.99) = 0.04$

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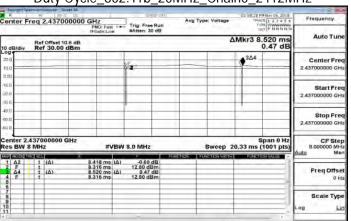
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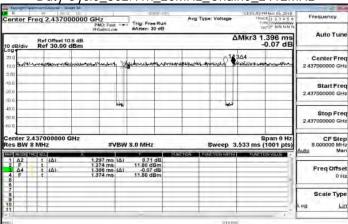


7.1 DUTY CYCLE TEST SIGNAL Measurement Result

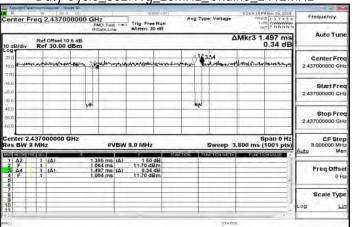
Duty Cycle_802.11b_20MHz_Chain0_2412MHz



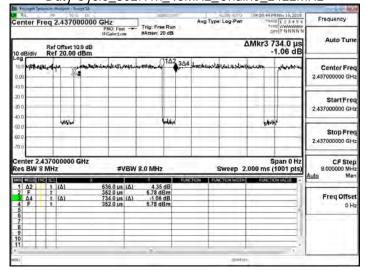
Duty Cycle_802.11n_20MHz_Chain0_2412MHz



Duty Cycle_802.11g_20MHz_Chain0_2412MHz



Duty Cycle_802.11n_40MHz_Chain0_2422MHz



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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.

Per RSS-247 §5.4(d)

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

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.

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

= $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N_{ANT}] dBi$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is grater than 6 dBi, therefore the limit needs to be reduced as below:

Frequency (MHz)	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
2412~2462	6.38	29.62

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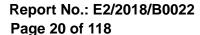
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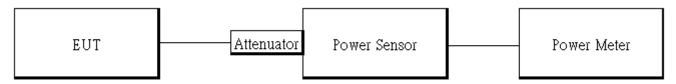


8.2 Measurement Equipment Used

	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Power Meter	Anritsu	ML2496A	1326001	2018/08/09	2019/08/02				
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02				
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02				
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25				
Notebook	Lenovo	L420	S0011721	N/A	N/A				
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19				
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25				

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

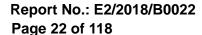
Antenna Chain 0

802.1	302.11b Ch0								
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT				
1	2412	1	18.87	30.00	PASS				
6	2437	1	19.18	30.00	PASS				
11	2462	1	19.36	30.00	PASS				
802.1	1b Ch0								
CH Freq. Data (MHz) Rate			Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT				
1	2412	1	15.40	30.00	PASS				
6	2437	1	15.43	30.00	PASS				
11	2462	1	15.62	30.00	PASS				

802.11g Ch0								
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT			
1	2412	6	21.20	30.00	PASS			
6	2437	6	20.62	30.00	PASS			
11	2462	6	20.57	30.00	PASS			
802.1	1g Ch0							
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT			
1	2412	6	11.84	30.00	PASS			
6	2437	6	11.01	30.00	PASS			
11	2462	6	10.95	30.00	PASS			

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802.1	802.11n_HT20M Ch0							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT			
1	2412	MCS0	21.11	30.00	PASS			
6	2437	MCS0	21.13	30.00	PASS			
11	2462	MCS0	21.18	30.00	PASS			
802.1	1n_HT20	M Ch0						
СН	CH Freq. Data include (MHz) Rate tolerand		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT			
1	2412	MCS0	11.93	30.00	PASS			
6	2437	MCS0	11.97	30.00	PASS			
11	2462	MCS0	11.98	30.00	PASS			

802.11n_HT40M Ch0								
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT			
3	2422	MCS0	20.57	30.00	PASS			
6	2437	MCS0	20.58	30.00	PASS			
9	2452	MCS0	20.64	30.00	PASS			
802.1	1n_HT40	M Ch0						
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT			
3	2422	MCS0	11.93	30.00	PASS			
6	2437	MCS0	11.83	30.00	PASS			
9	2452	MCS0	11.96	30.00	PASS			

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Antenna Chain 1

802.1	1b Ch1				
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.97	30.00	PASS
6	2437	1	19.33	30.00	PASS
11	2462	1	19.38	30.00	PASS
802.1	1b Ch1				
СН	Freq. Data include tune up		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15.35	30.00	PASS
6	2437	1	15.40	30.00	PASS
11	2462	1	15.46	30.00	PASS

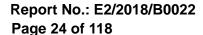
802.1	1g Ch1				
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm) Limit (dBm)		RESULT
1	2412	6	20.64	30.00	PASS
6	2437	6	20.88	30.00	PASS
11	2462	6	21.02	30.00	PASS
802.1	1g Ch1				
СН	CH Freq. Data include (MHz) Rate toleran		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	11.93	30.00	PASS
6	2437	6	11.82	30.00	PASS
11	2462	6	11.73	30.00	PASS

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802.1	802.11n_HT20M Ch1							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT			
1	2412	MCS0	21.00	30.00	PASS			
6	2437	MCS0	21.12	30.00	PASS			
11	2462	MCS0	21.14	30.00	PASS			
802.1	1n_HT20	M Ch1						
СН	CH Freq. Data include tune up		tolerance Power	Limit (dBm)	RESULT			
1	2412	MCS0	11.60	30.00	PASS			
6	2437	MCS0	11.42	30.00	PASS			
11	2462	MCS0	11.85	30.00	PASS			

802.1	802.11n_HT40M Ch1							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT			
3	2422	MCS0	20.62	30.00	PASS			
6	2437	MCS0	20.11	30.00	PASS			
9	2452	MCS0	20.87	30.00	PASS			
802.1	1n_HT40	M Ch1						
СН	Freq. (MHz)	· · · · · · · · · · · · · · · · · · ·		Limit (dBm)	RESULT			
3	2422	MCS0	12.41	30.00	PASS			
6	2437	MCS0	11.34	30.00	PASS			
9	2452	MCS0	12.40	30.00	PASS			

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MIMO

802.1	802.11n_HT20M MIMO									
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT			
			CH 0	CH 1						
1	2412	MCS8	21.09	20.93	24.02	29.62	PASS			
6	2437	MCS8	21.43	20.90	24.18	29.62	PASS			
11	2462	MCS8	21.48	20.88	24.20	29.62	PASS			
802.1	1n_HT20	M MIMO	1							
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT			
			CH 0	CH 1	(иВП)					
1	2412	MCS8	11.37	10.92	14.48	29.62	PASS			
6	2437	MCS8	11.49	10.78	14.48	29.62	PASS			
11	2462	MCS8	11.68	11.04	14.70	29.62	PASS			

802.1	1n_HT40	M MIMO)				
CH Freq. (MHz)		Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	` ,		
3	2422	MCS8	20.36	19.97	23.18	29.62	PASS
6	2437	MCS8	20.38	19.94	23.18	29.62	PASS
9	2452	MCS8	21.55	20.71	24.16	29.62	PASS
802.1	1n_HT40	M MIMO	1				
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Max. Avg. Output include tune up tolerance Power	Limit (dBm)	RESULT
			CH 0	CH 1	(dBm)		
3	2422	MCS8	10.76	10.25	14.15	29.62	PASS
6	2437	MCS8	10.62	10.17	14.04	29.62	PASS
9	2452	MCS8	12.46	11.23	15.53	29.62	PASS

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

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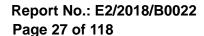


EIRP Antenna Chain 0

maiii							
802.1	1b Ch0						
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	15.40	3.37	18.77	36	PASS
6	2437	1	15.43	3.37	18.80	36	PASS
11	2462	1	15.62	3.37	18.99	36	PASS
802.1	1g Ch0						
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	11.84	3.37	15.21	36	PASS
6	2437	6	11.01	3.37	14.38	36	PASS
11	2462	6	10.95	3.37	14.32	36	PASS
802.1	1n_HT20N	/I Ch0					
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11.93	3.37	15.30	36	PASS
6	2437	MCS0	11.97	3.37	15.34	36	PASS
11	2462	MCS0	11.98	3.37	15.35	36	PASS

802.11n_HT40M Ch0									
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT		
3	2422	MCS0	11.93	3.37	15.30	36	PASS		
6	2437	MCS0	11.83	3.37	15.20	36	PASS		
9	2452	MCS0	11.96	3.37	15.33	36	PASS		

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Antenna Chain 1

nain	1						
802.11	lb Ch1						
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	15.35	3.36	18.71	36	PASS
6	2437	1	15.40	3.36	18.76	36	PASS
11	2462	1	15.46	3.36	18.82	36	PASS
802.11	lg Ch1						
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	11.93	3.36	15.29	36	PASS
6	2437	6	11.82	3.36	15.18	36	PASS
11	2462	6	11.73	3.36	15.09	36	PASS
802.11	1n_HT20N	/I Ch1					
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11.60	3.36	14.96	36	PASS
6	2437	MCS0	11.42	3.36	14.78	36	PASS
11	2462	MCS0	11.85	3.36	15.21	36	PASS
802.11	1n_HT40N	/I Ch1					
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.41	3.36	15.77	36	PASS
6	2437	MCS0	11.34	3.36	14.70	36	PASS
9	2452	MCS0	12.40	3.36	15.76	36	PASS

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MIMO

802.11n_HT20M MIMO									
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	, ,				
1	2412	MCS8	21.09	20.93	14.48	6.38	20.86	36	PASS
6	2437	MCS8	21.43	20.90	14.48	6.38	20.85	36	PASS
11	2462	MCS8	21.48	20.88	14.70	6.38	21.08	36	PASS

802.11n_HT40M MIMO									
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	10.76	10.25	14.15	6.38	20.53	36	PASS
6	2437	MCS8	10.62	10.17	14.04	6.38	20.42	36	PASS
9	2452	MCS8	12.46	11.23	15.53	6.38	21.90	36	PASS

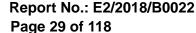
* Note: EIRP = Average Power + Gain

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6DB & 99% BANDWIDTH MEASUREMENT

9.1 Standard Applicable

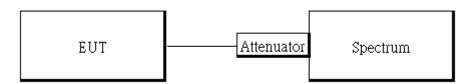
The minimum 6 dB bandwidth shall be at least 500 kHz.

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs

9.2 Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19	
Attenuator	Marvelous	MVE2213- 10	RF30	2017/12/26	2018/12/25	
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25	
Notebook	Lenovo	L420	S0011721	N/A	N/A	

9.3 Test Set-up



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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.

9.5 Measurement Result

6dB Bandwidth Antenna Chain 0

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8107.00	> 500	PASS
2437	8098.00	> 500	PASS
2462	8099.00	> 500	PASS

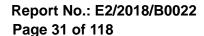
802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15450.00	> 500	PASS
2437	15480.00	> 500	PASS
2462	15350.00	> 500	PASS

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802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15340.00	> 500	PASS
2437	15160.00	> 500	PASS
2462	15680.00	> 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36380.00	> 500	PASS
2437	36390.00	> 500	PASS
2452	36380.00	> 500	PASS

Antenna Chain 1

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8116.00	> 500	PASS
2437	8116.00	> 500	PASS
2462	8119.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15540.00	> 500	PASS
2437	15530.00	> 500	PASS
2462	15690.00	> 500	PASS

802.11 n HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15160.00	> 500	PASS
2437	15360.00	> 500	PASS
2462	15160.00	> 500	PASS

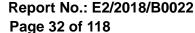
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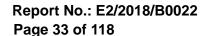


802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36390.00	> 500	PASS
2437	36380.00	> 500	PASS
2452	36370.00	> 500	PASS

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99% Bandwidth **Antenna Chain 0**

802.11b Ch0		
Freq. (MHz)	99% BW (MHz)	
2412	10.236	
2437	10.227	
2462	10.230	

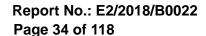
802.11g Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	16.500
2437	16.465
2462	16.494

802.11n_HT20M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	17.470
2437	17.489
2462	17.482

802.11n_HT40M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2422	36.280
2437	36.266
2452	36.302

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Antenna Chain 1

802.11b Ch1	
Freq. (MHz)	99% BW (MHz)
2412	10.251
2437	10.243
2462	10.247

802.11g Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	16.517
2437	16.506
2462	16.493

802.11n_HT20M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	17.483
2437	17.465
2462	17.471

802.11n_HT40M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2422	36.274
2437	36.300
2452	36.321

*Refer to next page for plots

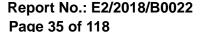
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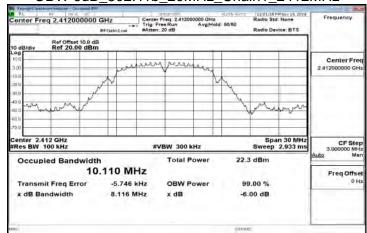




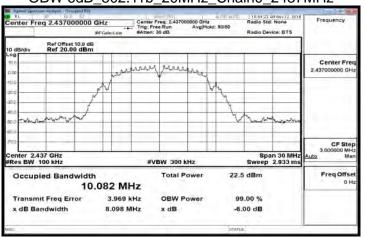
OBW 6dB_802.11b_20MHz_Chain0_2412MHz

ter Freq 2.412000000 GHz Radio Device: BTS Center Free CF Step enter 2.412 GHz Res BW 100 kHz #VBW 300 kHz 22.2 dBm Freq Offse 10.092 MHz 35 Hz OBW Power x dB Bandwidth 8.107 MHz x dB -6.00 dB

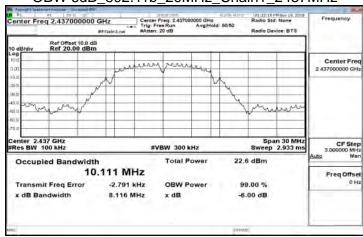
OBW 6dB_802.11b_20MHz_Chain1_2412MHz



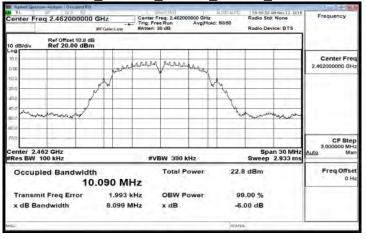
OBW 6dB_802.11b_20MHz_Chain0_2437MHz



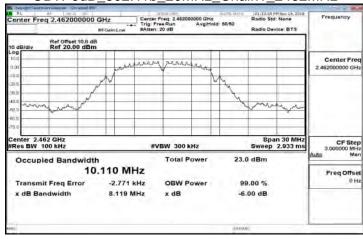
OBW 6dB 802.11b 20MHz Chain1 2437MHz



OBW 6dB 802.11b 20MHz Chain0 2462MHz



OBW 6dB_802.11b_20MHz_Chain1_2462MHz

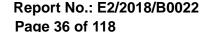


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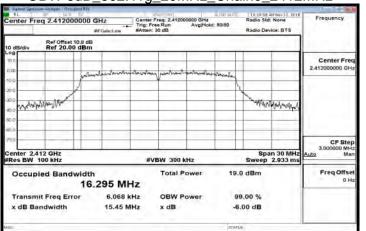
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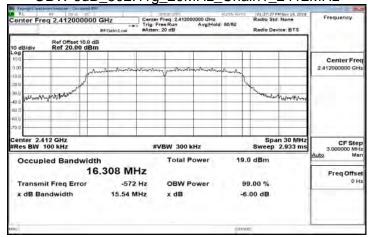




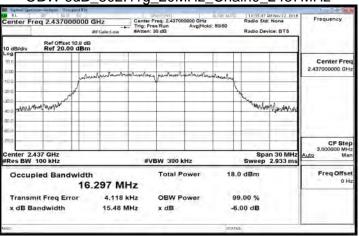
OBW 6dB_802.11g_20MHz_Chain0_2412MHz

OBW 6dB_802.11g_20MHz_Chain1_2412MHz

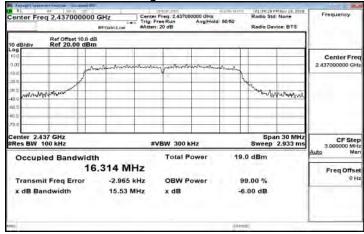




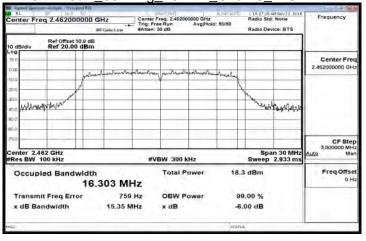
OBW 6dB_802.11g_20MHz_Chain0_2437MHz



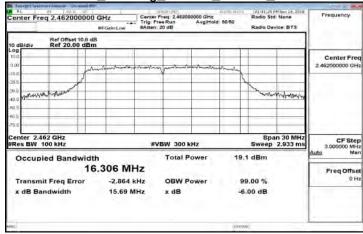
OBW 6dB 802.11g 20MHz Chain1 2437MHz



OBW 6dB_802.11g_20MHz_Chain0_2462MHz



OBW 6dB_802.11g_20MHz_Chain1_2462MHz

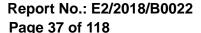


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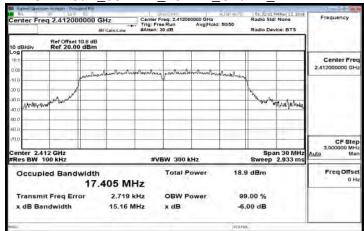




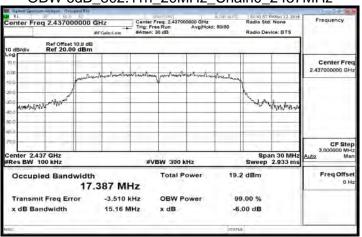
OBW 6dB_802.11n_20MHz_Chain0_2412MHz

ter Freq 2.412000000 GHz Radio Device: BT5 Center Free Muneyana CF Step 3,000000 MHz enter 2.412 GHz Res BW 100 kHz #VBW 300 kHz 19.1 dBm Freq Offse 17.398 MHz -2.636 kHz OBW Power x dB Bandwidth 15.34 MHz x dB -6.00 dB

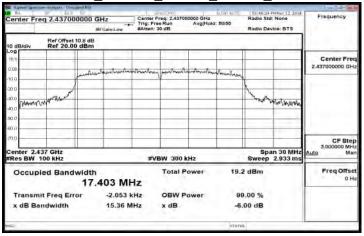
OBW 6dB_802.11n_20MHz_Chain1_2412MHz



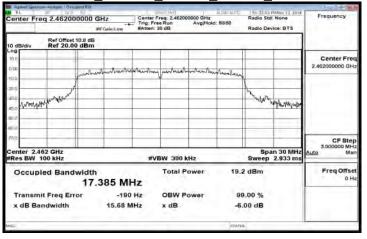
OBW 6dB_802.11n_20MHz_Chain0_2437MHz



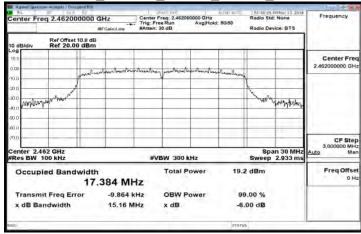
OBW 6dB 802.11n 20MHz Chain1 2437MHz



OBW 6dB 802.11n 20MHz Chain0 2462MHz



OBW 6dB_802.11n_20MHz_Chain1_2462MHz

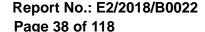


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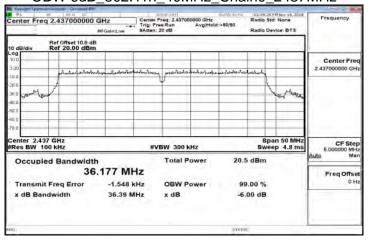
OBW 6dB_802.11n_40MHz_Chain0_2422MHz

Center Freq: 2.422000000 GHz Trig: Free Run AvgiHold: 50/50 er Freq 2.422000000 GHz Center Fre 2.422 GH CF Step 5,000000 MHz #VBW 300 kHz Occupied Bandwidth 36,160 MHz Freq Offse 5.047 kHz 99.00 % Transmit Freq Error **OBW Power** 36.38 MHz -6.00 dB x dB Bandwidth x dB

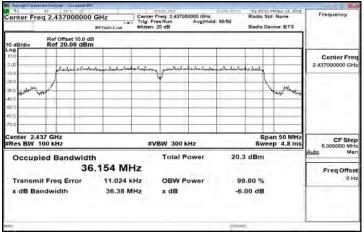
OBW 6dB_802.11n_40MHz_Chain1_2422MHz



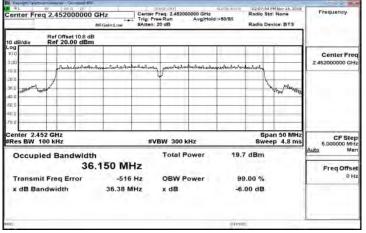
OBW 6dB_802.11n_40MHz_Chain0_2437MHz



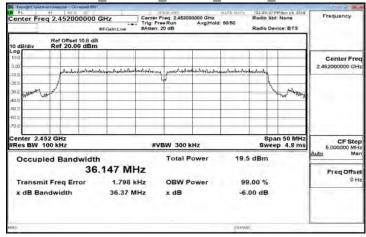
OBW 6dB 802.11n 40MHz Chain1 2437MHz



OBW 6dB 802.11n 40MHz Chain0 2452MHz



OBW 6dB_802.11n_40MHz_Chain1_2452MHz

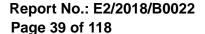


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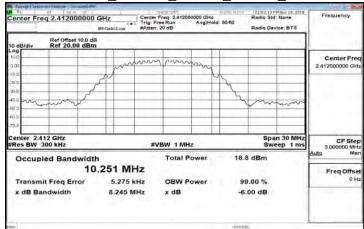




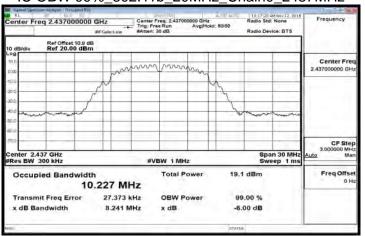
IC OBW 99%_802.11b_20MHz_Chain0_2412MHz

ter Freq 2.412000000 GHz Radio Device: BTS Center Free CF Step enter 2.412 GHz Res BW 300 kHz Span 30 MHz Sweep 1 ms #VBW 1 MHz 18.6 dBm Freq Offse Total Power 10.236 MHz 28.166 kHz OBW Power x dB Bandwidth 8.242 MHz x dB -6.00 dB

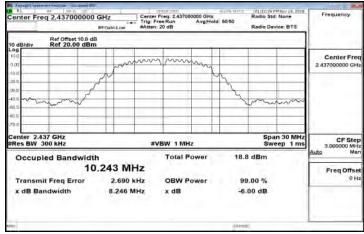
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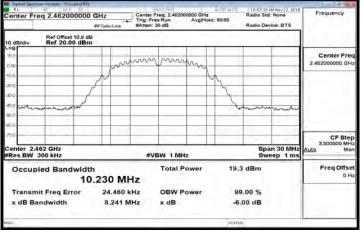
IC OBW 99%_802.11b_20MHz_Chain0_2437MHz



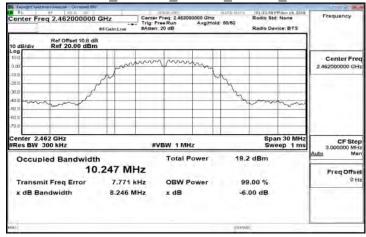
IC OBW 99% 802.11b 20MHz Chain1 2437MHz



IC OBW 99% 802.11b 20MHz Chain0 2462MHz



IC OBW 99%_802.11b_20MHz_Chain1_2462MHz

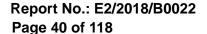


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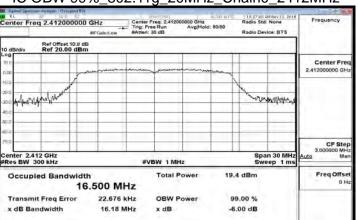
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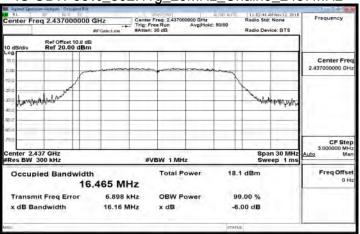
IC OBW 99%_802.11g_20MHz_Chain0_2412MHz



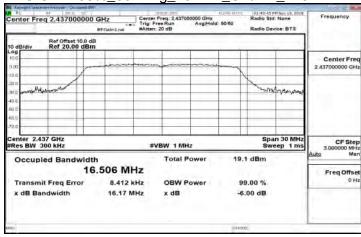
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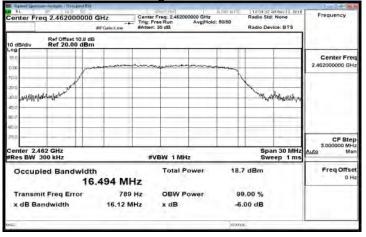
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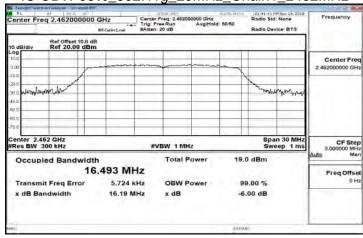
IC OBW 99% 802.11g 20MHz Chain1 2437MHz



IC OBW 99% 802.11g 20MHz Chain0 2462MHz



IC OBW 99%_802.11g_20MHz_Chain1_2462MHz

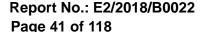


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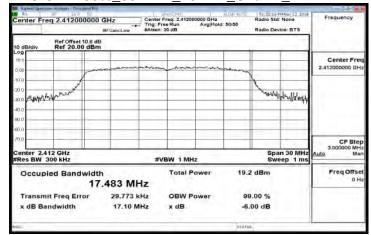




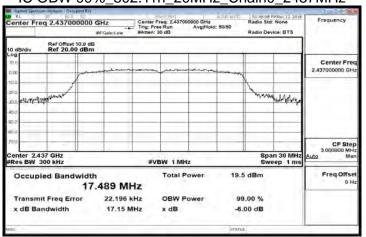
IC OBW 99%_802.11n_20MHz_Chain0_2412MHz

ter Freq 2.412000000 GHz Radio Device: BT5 Center Free adding way work Maruhan CF Step 3,000000 ML enter 2.412 GHz Res BW 300 kHz Span 30 MHz Sweep 1 ms #VBW 1 MHz 19.2 dBm Freq Offse Total Power 17.470 MHz 19.978 kHz OBW Power x dB Bandwidth 17.25 MHz x dB -6.00 dB

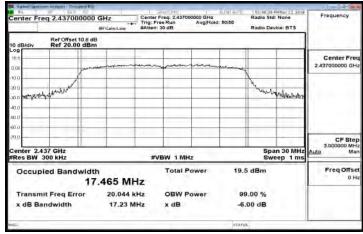
IC OBW 99%_802.11n_20MHz_Chain1_2412MHz



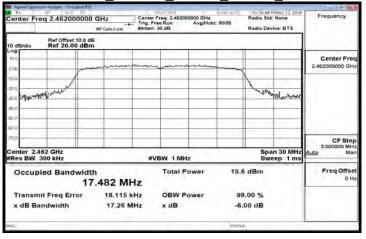
IC OBW 99%_802.11n_20MHz_Chain0_2437MHz



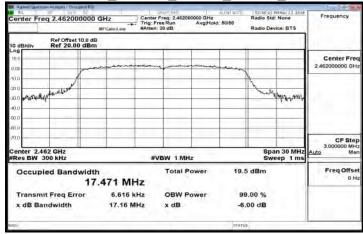
IC OBW 99% 802.11n 20MHz Chain1 2437MHz



IC OBW 99% 802.11n 20MHz Chain0 2462MHz



IC OBW 99%_802.11n_20MHz_Chain1_2462MHz

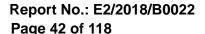


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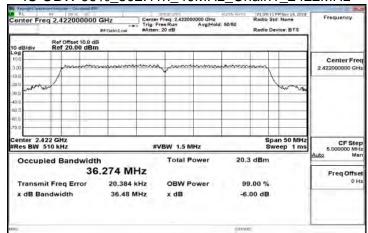




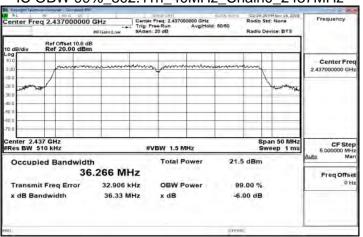
IC OBW 99%_802.11n_40MHz_Chain0_2422MHz

er Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run AvgiHold: 50/50 Center Fre CF Step 5,000000 MHz es BW 510 kHz **#VBW 1.5 MHz** Occupied Bandwidth 36.280 MHz Freq Offse 38.618 kHz 99.00 % Transmit Freq Error **OBW Power** 36.48 MHz -6.00 dB x dB Bandwidth x dB

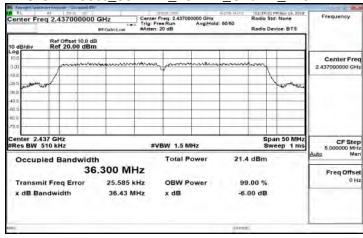
IC OBW 99%_802.11n_40MHz_Chain1_2422MHz



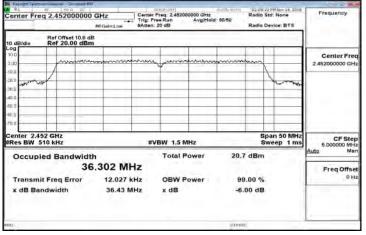
IC OBW 99%_802.11n_40MHz_Chain0_2437MHz



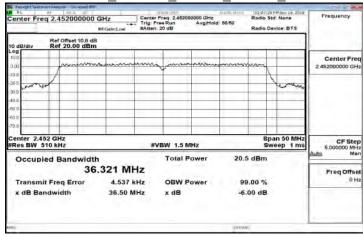
IC OBW 99% 802.11n 40MHz Chain1 2437MHz



IC OBW 99% 802.11n 40MHz Chain0 2452MHz



IC OBW 99%_802.11n_40MHz_Chain1_2452MHz

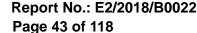


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10 CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

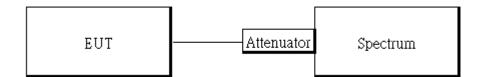
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

10.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Spectrum Analyzer	Agilent	N9010A	MY5144011 3	2018/06/20	2019/06/19				
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25				
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25				
Notebook	Lenovo	L420	S0011721	N/A	N/A				

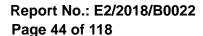
10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge Limt

- Set analyzer center frequency to DTS channel center frequency.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
- 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:

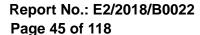
- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, 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 & ANSI C63.10.
- 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**

Referei	nce Leve	l of Limit 802.11b mode	Refere	nce Leve	of Limit 802.11g mode
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	6.75	-13.25	2412	1.28	-18.72
2437	7.339	-12.66	2437	0.120	-19.88
2462	7.29	-12.71	2462	0.50	-19.50

Referen	ce Level	of Limit 802.11n20 mode	Reference	e Level o	of Limit 802.11n40 MODE
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	4.26	-15.74	2422	0.86	-19.14
2437	4.445	-15.56	2437	1.863	-18.14
2462	4.37	-15.63	2452	0.99	-19.01

offset 10.80 dB for SISO mode dB for MIMO mode offset 13.80

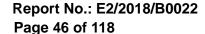
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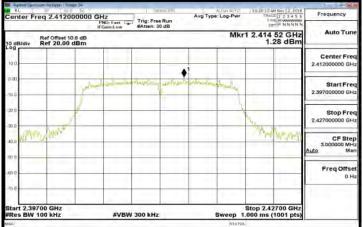
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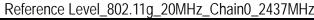
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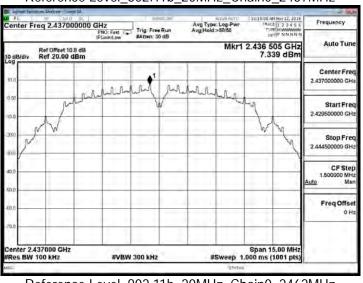
Reference Level_802.11g_20MHz_Chain0_2412MHz

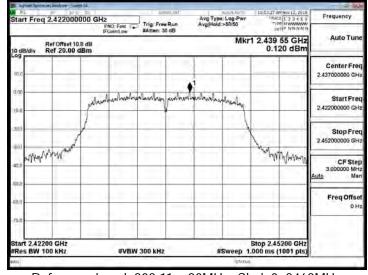




Reference Level_802.11b_20MHz_Chain0_2437MHz







Reference Level_802.11b_20MHz_Chain0_2462MHz

Reference Level_802.11q_20MHz_Chain0_2462MHz



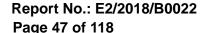


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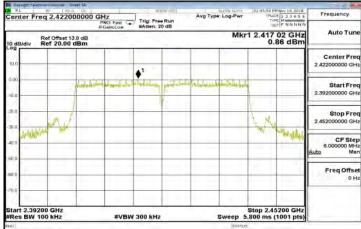
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Reference Level_802.11n_20MHz_Chain0_2412MHz

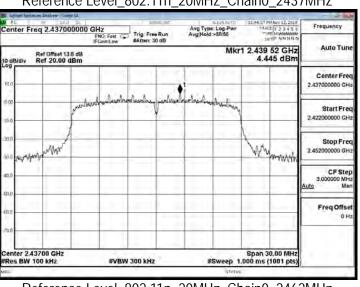
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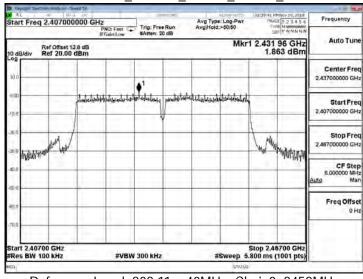




Reference Level_802.11n_20MHz_Chain0_2437MHz

Reference Level_802.11n_40MHz_Chain0_2437MHz





Reference Level_802.11n_20MHz_Chain0_2462MHz

Reference Level_802.11n_40MHz_Chain0_2452MHz



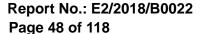


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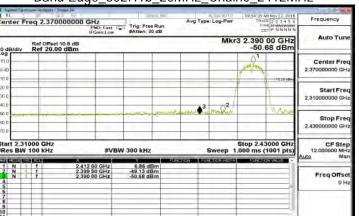
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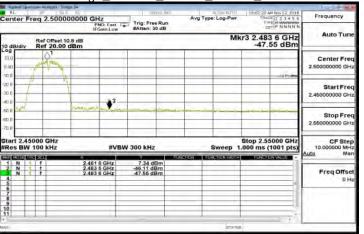
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Band Edge_802.11g_20MHz_Chain0_2412MHz



Band Edge_802.11b_20MHz_Chain0_2462MHz

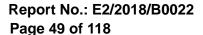


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enter Freq 2.37000000 GHz
PRO: Fast Trig: Free Run
(Free Run) ow SAtten: 30 dB

2.414 64 GHz 2.399 90 GHz 2.390 00 GHz

Ref Offset 13.8 dB Ref 20.00 dBm

es BW 100 KHz

Band Edge_802.11n_20MHz_Chain0_2412MHz

Band Edge_802.11n_40MHz_Chain0_2422MHz



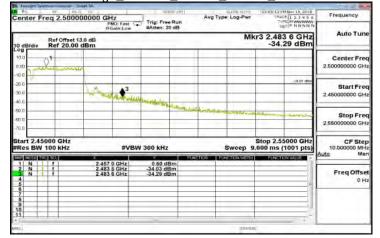


Band Edge_802.11n_20MHz_Chain0_2462MHz

4.28 dBn 30.80 dBn 38.92 dBn

Mer Freq 2.500000000 GHz
PNO: Fast Land Trig: Free Run
PNO: Fast Land Trig: Free Run
SAttent: 30 dB Mkr3 2.483 6 GHz -40.37 dBm Ref Offset 13.8 dB Ref 20.00 dBm Center Fre Stop Fre Stop 2.55000 GHz .000 ms (1001 pts) CF Step art 2.45000 GHz Res BW 100 KHz 2,464 6 GHz 2,483 5 GHz 2,483 6 GHz 4,44 dBn -39,50 dBn -40,37 dBn Freq Offse

Band Edge_802.11n_40MHz_Chain0_2452MHz

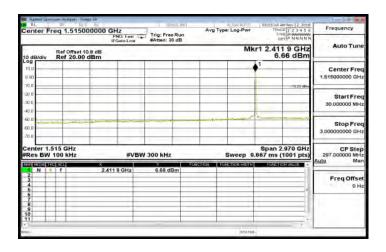


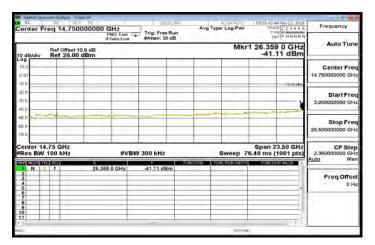
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802.11b: Spurious Emission Test Data CH-Low

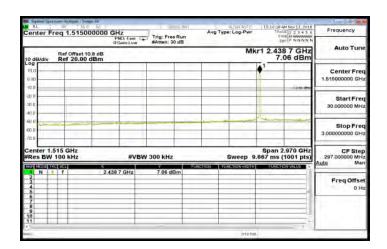


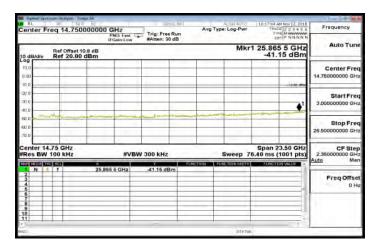


802.11b: Spurious Emission Test Data CH-Mid

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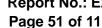




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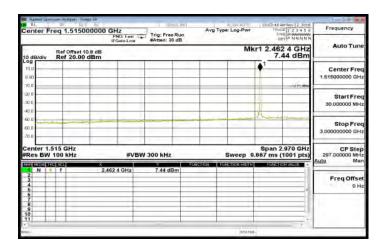
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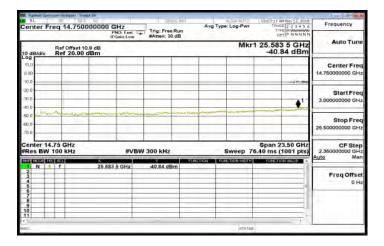


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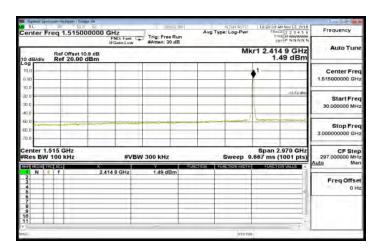


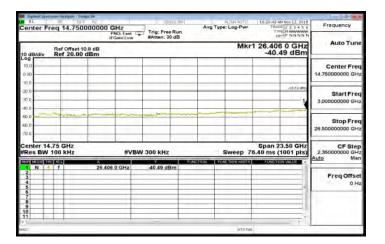
802.11b: Spurious Emission Test Data CH-High





802.11g: Spurious Emission Test Data CH-Low

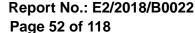




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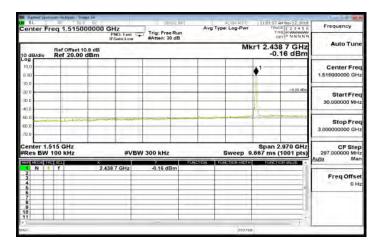
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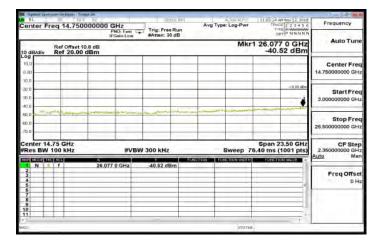
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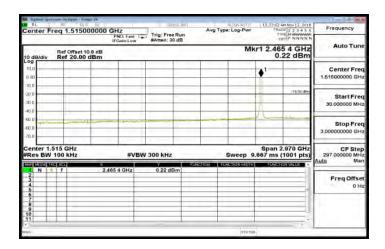


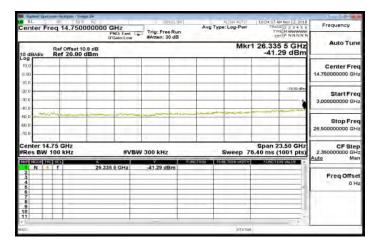
802.11g: Spurious Emission Test Data CH-Mid





802.11g: Spurious Emission Test Data CH-High





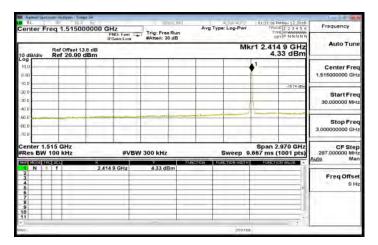
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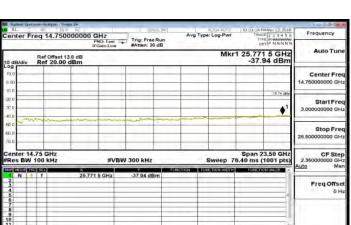
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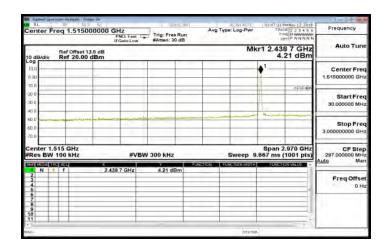
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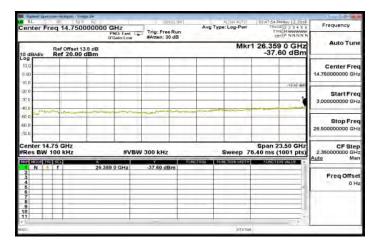
802.11n_HT20: Spurious Emission Test Data CH-Low





802.11n_HT20: Spurious Emission Test Data CH-Mid





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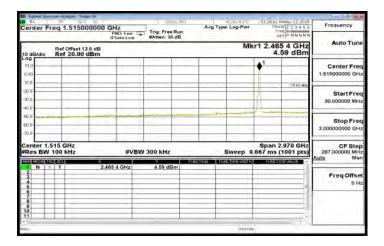
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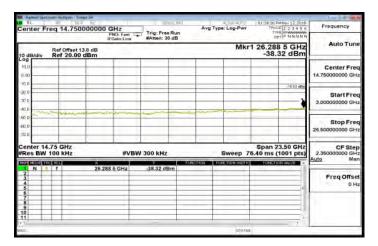


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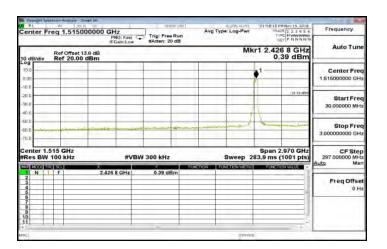
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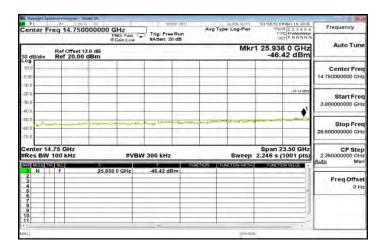
802.11n_HT20: Spurious Emission Test Data CH-High





802.11n_HT40: Spurious Emission Test Data CH-Low





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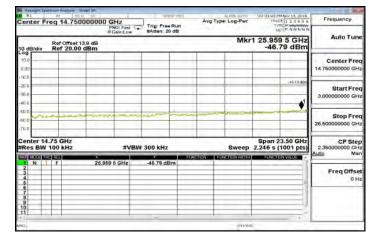
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802.11n_HT40: Spurious Emission Test Data CH-Mid

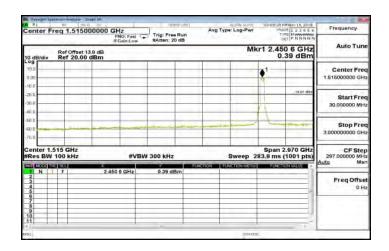
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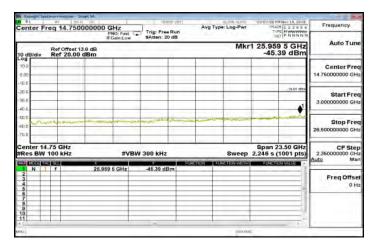


802.11n_HT40: Spurious Emission Test Data CH-High

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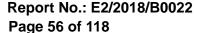
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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

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 RSS-Gen §8.10 Table 7.

And according to 15.33(a)(1) & RSS-Gen §6.13(a) 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.

According to RSS-Gen §8.9 Table 5 & 6 Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission

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

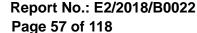
Note:

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

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11.2 Measurement Equipment Used:

966 Chamber							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Broadband An- tenna	TESEQ	CBL 6112D	35243	2018/10/30	2019/10/29		
Horn Antenna	Schwarzbeck	BBHA9120D	1187	2018/01/04	2019/01/03		
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11		
Loop Antenna	ETS.LINDGREN	6502	148045	2018/04/19	2019/04/18		
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/4/10		
Pre-Amplifier	EMC Instru- ments	EMC330	980096	2017/12/26	2018/12/25		
Pre-Amplifier EMC Instruments		EMC0011830	980199	2017/12/26	2018/12/25		
Pre-Amplifier	EMC Instru- ments	EMC184045B	980135	2018/10/02	2019/10/01		
Attenuator	Marvelous	WATT-218FS-1 0	RF246	2017/12/26	2018/12/25		
Highpass Filter	Micro Tronics	BRM50701-01	G008	2017/12/26	2018/12/25		
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25		
Coaxial Cable	Huber Suhner	EMC106-SM-S M-7200	150703	2017/12/26	2018/12/25		
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25		
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25		

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

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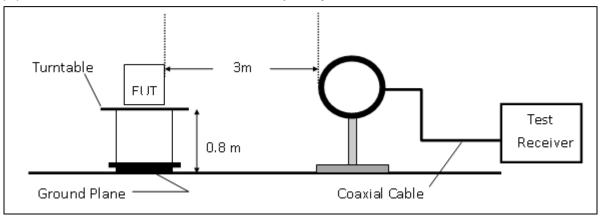
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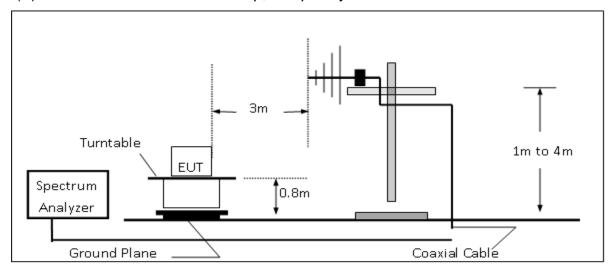


11.3 Test SET-UP

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



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



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz Turntable Зт 1m to 4m **EUT** Spectrum 1.5m Analyzer Ground Plane Absorber Coaxial Cable

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11.4 Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
- 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.
- 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	<u> </u>	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)

Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz 11.6

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.

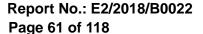
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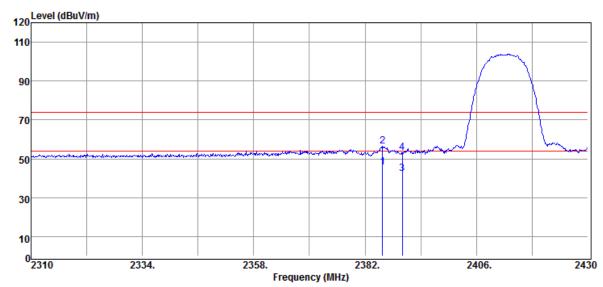
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Radiated Band Edge Measurement Result

Operation Mode **Test Date** :802.11b :2018-11-21 Test Mode :BE CH LOW Temp./Humi. :23/67 **EUT Pol** :H Plan Antenna Pol. :VERTICAL Test Channel :2412 MHz Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBµV/m	dB
						_
2385.72	Average	42.36	3.39	45.75	54.00	-8.25
2385.72	Peak	53.07	3.39	56.46	74.00	-17.54
2390.00	Average	38.89	3.39	42.28	54.00	-11.72
2390.00	Peak	49.66	3.39	53.05	74.00	-20.95

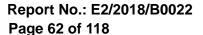
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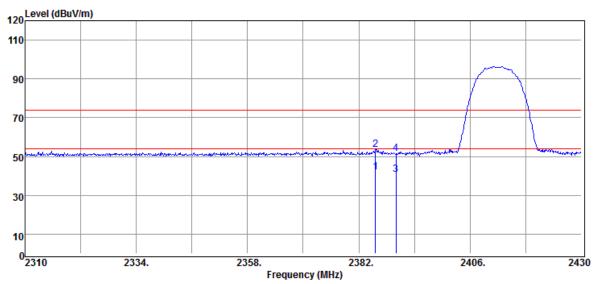


Operation Mode :802.11b Test Mode :BE CH LOW **EUT Pol** :H Plan

Test Channel :2412 MHz **Test Date** :2018-11-21 Temp./Humi. :23/67

Antenna Pol. :HORIZONTAL

Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2385.60	Average	38.38	3.39	41.77	54.00	-12.23
2385.60	Peak	50.22	3.39	53.61	74.00	-20.39
2390.00	Average	37.11	3.39	40.50	54.00	-13.50
2390.00	Peak	48.02	3.39	51.41	74.00	-22.59

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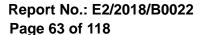
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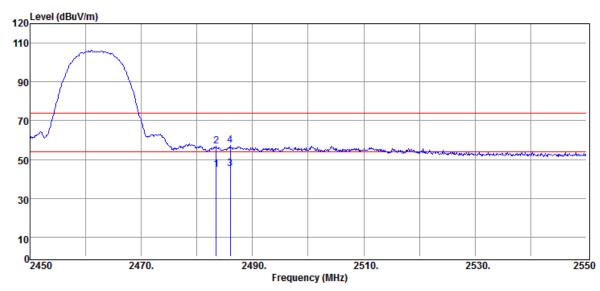
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Operation Mode :802.11b Test Mode :BE CH HIGH **EUT Pol** :H Plan Test Channel :2462 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
2483.50	Average	40.70	3.96	44.66	54.00	-9.34
2483.50	Peak	52.73	3.96	56.69	74.00	-17.31
2486.00	Average	41.32	3.98	45.30	54.00	-8.70
2486.00	Peak	53.31	3.98	57.29	74.00	-16.71

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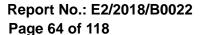
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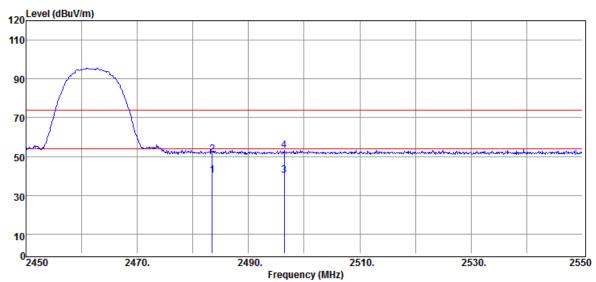




Operation Mode :802.11b Test Mode :BE CH HIGH **EUT Pol** :H Plan

Test Channel :2462 MHz **Test Date** :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :HORIZONTAL





Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	36.26	3.96	40.22	54.00	-13.78
2483.50	Peak	47.29	3.96	51.25	74.00	-22.75
2496.40	Average	36.09	4.04	40.13	54.00	-13.87
2496.40	Peak	49.03	4.04	53.07	74.00	-20.93

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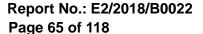
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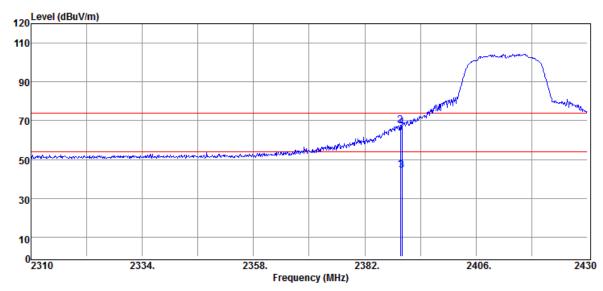
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Operation Mode :802.11g Test Mode :BE CH LOW **EUT Pol** :H Plan Test Channel :2412 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2389.68	Average	41.55	3.39	44.94	54.00	-9.06
2389.68	Peak	64.40	3.39	67.79	74.00	-6.21
2390.00	Average	41.06	3.39	44.45	54.00	-9.55
2390.00	Peak	63.19	3.39	66.58	74.00	-7.42

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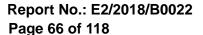
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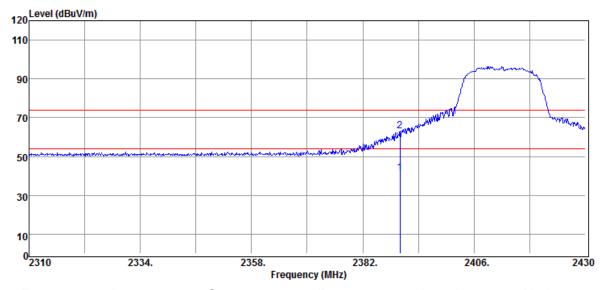




Operation Mode :802.11g Test Mode :BE CH LOW **EUT Pol** :H Plan Test Channel :2412 MHz

Test Date Engineer

:2018-11-21 Temp./Humi. :23/67 Antenna Pol. :HORIZONTAL :Ashton



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level	ı.	FS ID V	@3m	ı.
_	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
	2390.00	Average	38.08	3.39	41.47	54.00	-12.53
	2390.00	Peak	59.58	3.39	62.97	74.00	-11.03

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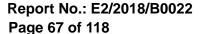
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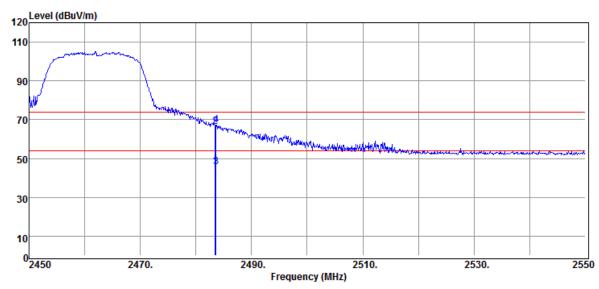
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Operation Mode :802.11g Test Mode :BE CH HIGH **EUT Pol** :H Plan Test Channel :2462 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
2483.50	Average	41.66	3.96	45.62	54.00	-8.38
2483.50	Peak	62.30	3.96	66.26	74.00	-7.74
2483.60	Average	41.71	3.96	45.67	54.00	-8.33
2483.60	Peak	63.22	3.96	67.18	74.00	-6.82

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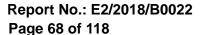
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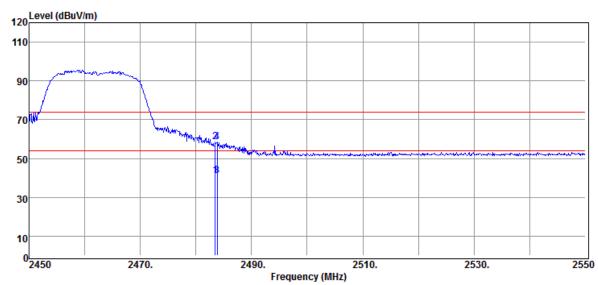


Operation Mode Test Mode **EUT Pol**

:802.11g :BE CH HIGH

:H Plan Test Channel :2462 MHz **Test Date** :2018-11-21 Temp./Humi. :23/67

Antenna Pol. :HORIZONTAL Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
2483.50	Average	36.97	3.96	40.93	54.00	-13.07
2483.50	Peak	54.47	3.96	58.43	74.00	-15.57
2483.80	Average	37.20	3.96	41.16	54.00	-12.84
2483.80	Peak	54.43	3.96	58.39	74.00	-15.61

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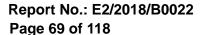
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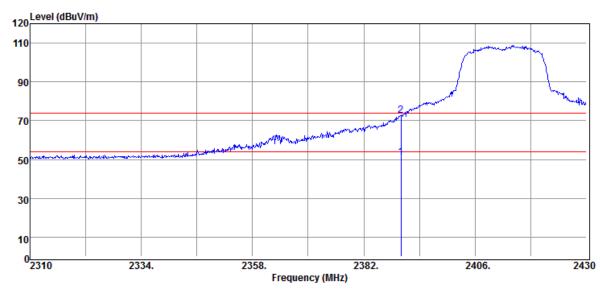
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Operation Mode :802.11n20 Test Mode :BE CH LOW **EUT Pol** :H Plan Test Channel :2412 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	47.83	3.39	51.22	54.00	-2.78
2390.00	Peak	69.33	3.39	72.72	74.00	-1.28

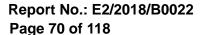
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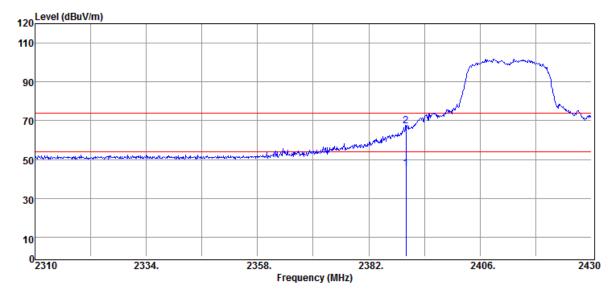


Operation Mode :802.11n20 Test Mode :BE CH LOW **EUT Pol** :H Plan

Test Channel :2412 MHz **Test Date** :2018-11-21 Temp./Humi. :23/67

Antenna Pol. :HORIZONTAL

Engineer :Ashton



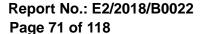
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	42.05	3.39	45.44	54.00	-8.56
2390.00	Peak	63.92	3.39	67.31	74.00	-6.69

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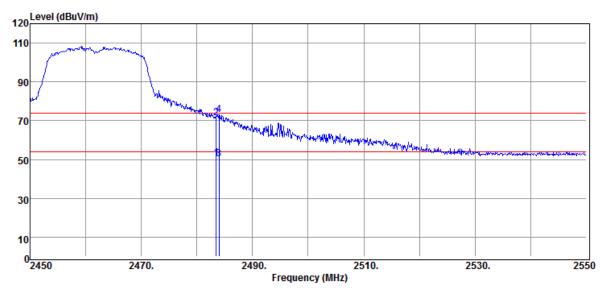
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Operation Mode :802.11n20 Test Mode :BE CH HIGH **EUT Pol** :H Plan Test Channel :2462 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	46.86	3.96	50.82	54.00	-3.18
2483.50	Peak	67.25	3.96	71.21	74.00	-2.79
2484.00	Average	46.19	3.96	50.15	54.00	-3.85
2484.00	Peak	68.98	3.96	72.94	74.00	-1.06

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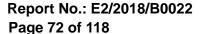
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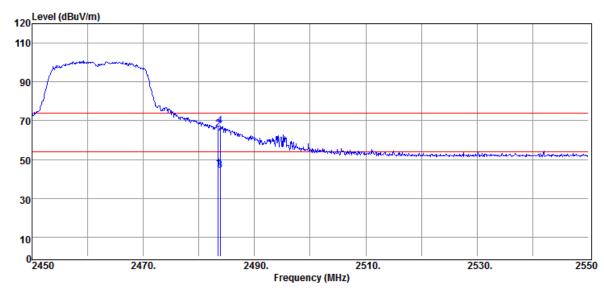


Test Channel

Operation Mode :802.11n20 Test Mode :BE CH HIGH **EUT Pol** :H Plan

:2462 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :HORIZONTAL Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	41.18	3.96	45.14	54.00	-8.86
2483.50	Peak	61.65	3.96	65.61	74.00	-8.39
2483.80	Average	40.65	3.96	44.61	54.00	-9.39
2483.80	Peak	63.22	3.96	67.18	74.00	-6.82

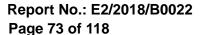
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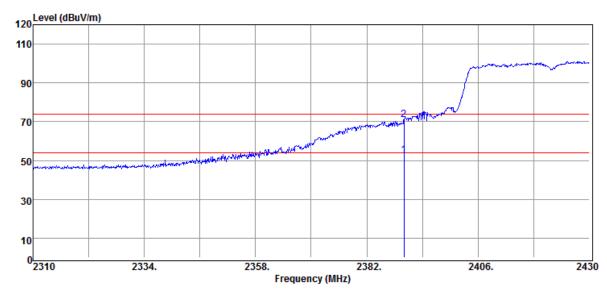
t (886-2) 2299-3279





Operation Mode :802.11n40 Test Mode :BE CH LOW **EUT Pol** :H Plan Test Channel :2422 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Enzo



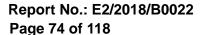
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	49.19	3.39	52.58	54.00	-1.42
2390.00	Peak	67.80	3.39	71.19	74.00	-2.81

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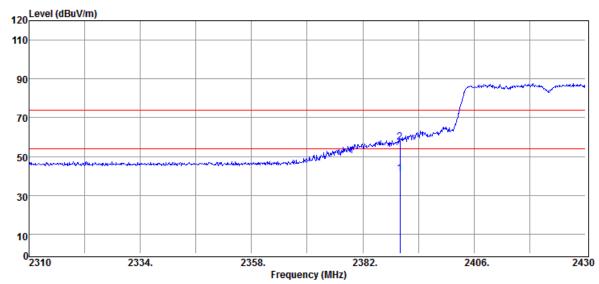


Operation Mode :802.11n40 Test Mode :BE CH LOW

EUT Pol :H Plan Test Channel :2422 MHz **Test Date** :2018-11-21 Temp./Humi. :23/67

Antenna Pol. :HORIZONTAL

Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB	
				_			
2390.00	Average	37.52	3.39	40.91	54.00	-13.09	
2390.00	Peak	53.95	3.39	57.34	74.00	-16.66	

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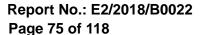
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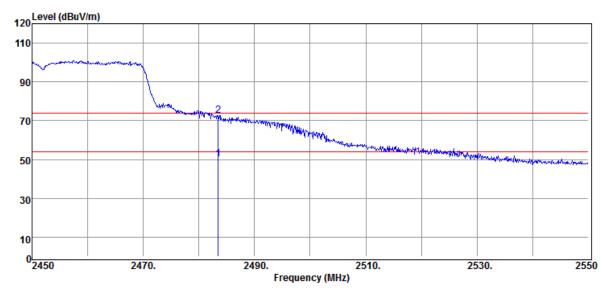
t (886-2) 2299-3279





Operation Mode :802.11n40 Test Mode :BE CH HIGH **EUT Pol** :H Plan Test Channel :2452 MHz

Test Date :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :VERTICAL Engineer :Enzo



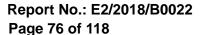
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	46.32	3.96	50.28	54.00	-3.72
2483.50	Peak	68.78	3.96	72.74	74.00	-1.26

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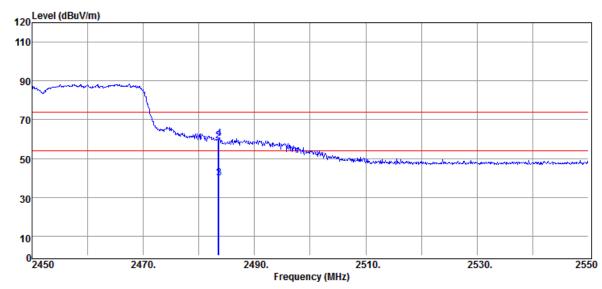




Operation Mode :802.11n40 Test Mode :BE CH HIGH

EUT Pol :H Plan Test Channel :2452 MHz **Test Date** :2018-11-21 Temp./Humi. :23/67 Antenna Pol. :HORIZONTAL

Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2483.50	Average	35.91	3.96	39.87	54.00	-14.13
2483.50	Peak	54.87	3.96	58.83	74.00	-15.17
2483.60	Average	35.82	3.96	39.78	54.00	-14.22
2483.60	Peak	56.34	3.96	60.30	74.00	-13.70

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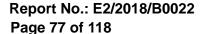
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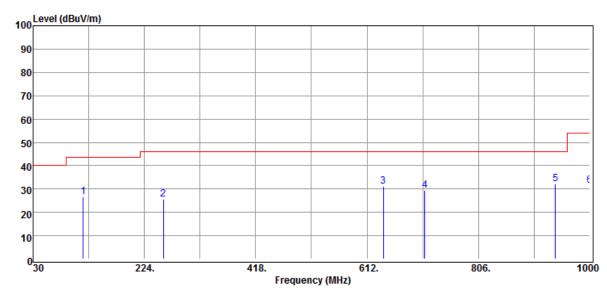




Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result

Operation Mode Test Date :802.11g :2018-11-19 Temp./Humi. Test Mode :TX CH LOW :25/60 **EUT Pol** Antenna Pol. :VERTICAL :H Plan **Test Channel** :2412 MHz Engineer :Enzo



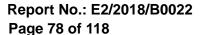
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
117.30	Peak	39.05	-12.40	26.65	43.50	-16.85
256.98	Peak	35.92	-10.20	25.72	46.00	-20.28
640.13	Peak	33.64	-2.52	31.12	46.00	-14.88
712.88	Peak	30.85	-1.53	29.32	46.00	-16.68
939.86	Peak	30.28	1.88	32.16	46.00	-13.84
1000.00	Peak	28.10	3.30	31.40	54.00	-22.60

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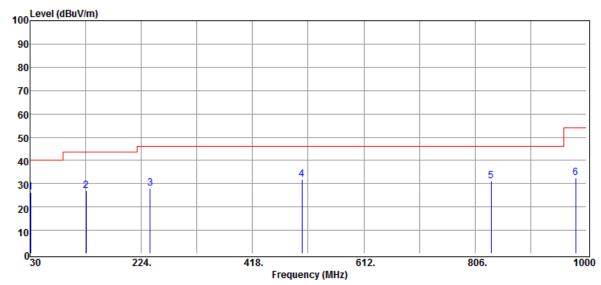




Operation Mode Test Date :802.11g :2018-11-19 Test Mode :TX CH LOW Temp./Humi. :25/60

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2412 MHz Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
30.97	Peak	30.29	-4.16	26.13	40.00	-13.87
127.97	Peak	38.73	-11.58	27.15	43.50	-16.35
239.52	Peak	39.71	-11.62	28.09	46.00	-17.91
504.33	Peak	36.03	-4.12	31.91	46.00	-14.09
834.13	Peak	30.61	0.39	31.00	46.00	-15.00
981.57	Peak	29.68	2.85	32.53	54.00	-21.47

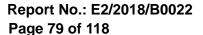
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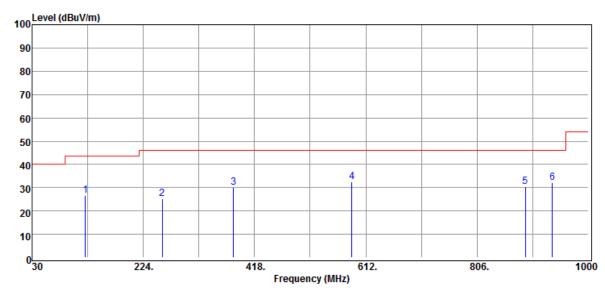
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Operation Mode :802.11g Test Mode :TX CH MID **EUT Pol** :H Plan Test Channel :2437 MHz

Test Date :2018-11-19 Temp./Humi. :25/60 Antenna Pol. :VERTICAL Engineer :Enzo

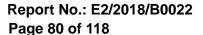


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
123.12	Peak	38.58	-11.91	26.67	43.50	-16.83
256.98	Peak	35.30	-10.20	25.10	46.00	-20.90
381.14	Peak	37.06	-6.89	30.17	46.00	-15.83
587.75	Peak	35.70	-3.20	32.50	46.00	-13.50
890.39	Peak	29.38	1.09	30.47	46.00	-15.53
936.95	Peak	30.19	1.82	32.01	46.00	-13.99

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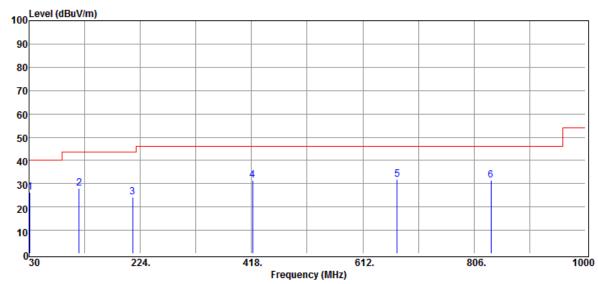


Operation Mode :802.11g Test Mode :TX CH MID **EUT Pol** :H Plan

Test Channel :2437 MHz **Test Date** :2018-11-19 Temp./Humi. :25/60

Antenna Pol. :HORIZONTAL

Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
						_
31.94	Peak	30.98	-4.71	26.27	40.00	-13.73
117.30	Peak	40.40	-12.40	28.00	43.50	-15.50
210.42	Peak	36.93	-12.58	24.35	43.50	-19.15
419.94	Peak	37.35	-5.82	31.53	46.00	-14.47
672.14	Peak	33.90	-2.00	31.90	46.00	-14.10
835.10	Peak	31.03	0.40	31.43	46.00	-14.57

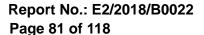
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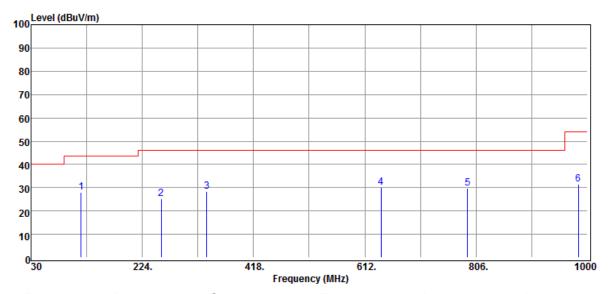
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Operation Mode :802.11g Test Mode :TX CH HIGH **EUT Pol** :H Plan Test Channel :2462 MHz

Test Date :2018-11-19 Temp./Humi. :25/60 Antenna Pol. :VERTICAL Engineer :Enzo

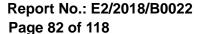


Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
Peak	40.48	-12.40	28.08	43.50	-15.42	
Peak	35.31	-10.20	25.11	46.00	-20.89	
Peak	36.75	-8.47	28.28	46.00	-17.72	
Peak	32.61	-2.52	30.09	46.00	-15.91	
Peak	30.30	-0.50	29.80	46.00	-16.20	
Peak	28.61	2.92	31.53	54.00	-22.47	
	Mode PK/QP/AV Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBμV Peak 40.48 Peak 35.31 Peak 36.75 Peak 32.61 Peak 30.30	Mode PK/QP/AV Reading Level dBμV dB Peak 40.48 -12.40 Peak 35.31 -10.20 Peak 36.75 -8.47 Peak 32.61 -2.52 Peak 30.30 -0.50	Mode PK/QP/AV Reading Level dBμV FS dBμV/m Peak 40.48 -12.40 28.08 Peak 35.31 -10.20 25.11 Peak 36.75 -8.47 28.28 Peak 32.61 -2.52 30.09 Peak 30.30 -0.50 29.80	Mode PK/QP/AV Reading Level dBμV FS dBμV/m @3m dBμV/m Peak 40.48 -12.40 28.08 43.50 Peak 35.31 -10.20 25.11 46.00 Peak 36.75 -8.47 28.28 46.00 Peak 32.61 -2.52 30.09 46.00 Peak 30.30 -0.50 29.80 46.00	Mode PK/QP/AV Reading Level dBμV FS dBμV/m @3m dBμV/m dBμV/m dB Peak 40.48 -12.40 28.08 43.50 -15.42 Peak 35.31 -10.20 25.11 46.00 -20.89 Peak 36.75 -8.47 28.28 46.00 -17.72 Peak 32.61 -2.52 30.09 46.00 -15.91 Peak 30.30 -0.50 29.80 46.00 -16.20

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:2018-11-19

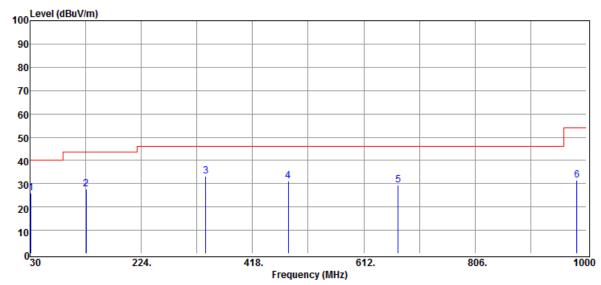
:25/60



Operation Mode Test Date :802.11g Test Mode :TX CH HIGH Temp./Humi.

EUT Pol :H Plan Antenna Pol. :HORIZONTAL

Test Channel :2462 MHz Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
						_
31.94	Peak	30.82	-4.71	26.11	40.00	-13.89
127.97	Peak	39.16	-11.58	27.58	43.50	-15.92
336.52	Peak	41.56	-8.47	33.09	46.00	-12.91
480.08	Peak	36.22	-4.92	31.30	46.00	-14.70
672.14	Peak	31.55	-2.00	29.55	46.00	-16.45
983.51	Peak	28.57	2.89	31.46	54.00	-22.54

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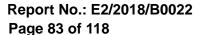
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台灣檢驗科技股份有限公司

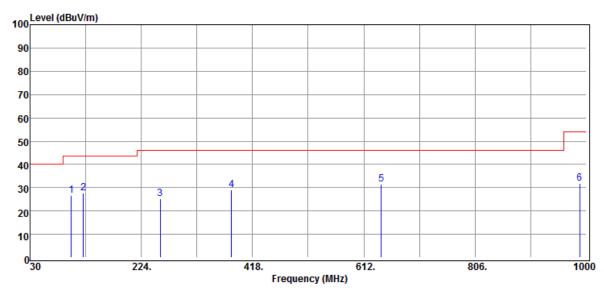
t (886-2) 2299-3279





Operation Mode :802.11n40 Test Mode :TX CH LOW **EUT Pol** :H Plan **Test Channel** :2422 MHz

Test Date :2018-11-19 Temp./Humi. :25/60 Antenna Pol. :VERTICAL Engineer :Enzo



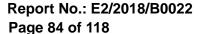
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
101.78	Peak	40.99	-14.49	26.50	43.50	-17.00
123.12	Peak	39.52	-11.91	27.61	43.50	-15.89
256.98	Peak	35.45	-10.20	25.25	46.00	-20.75
381.14	Peak	36.10	-6.89	29.21	46.00	-16.79
642.07	Peak	33.81	-2.48	31.33	46.00	-14.67
988.36	Peak	28.67	3.01	31.68	54.00	-22.32

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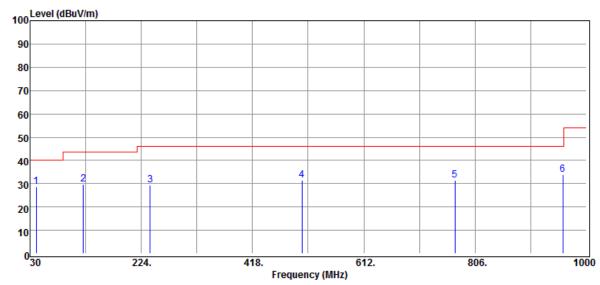




Operation Mode :802.11n40 **Test Date** :2018-11-19 Test Mode :TX CH LOW Temp./Humi. :25/60

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2422 MHz Engineer :Enzo

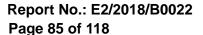


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
40.67	Peak	37.72	-9.17	28.55	40.00	-11.45
123.12	Peak	41.69	-11.91	29.78	43.50	-13.72
239.52	Peak	41.09	-11.62	29.47	46.00	-16.53
504.33	Peak	35.61	-4.12	31.49	46.00	-14.51
771.08	Peak	32.34	-0.93	31.41	46.00	-14.59
959.26	Peak	31.68	2.28	33.96	46.00	-12.04

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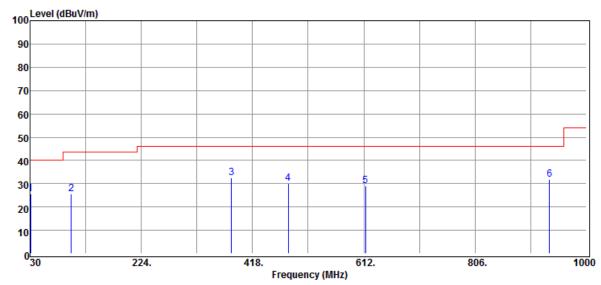


Operation Mode :802.11n40 Test Mode :TX CH MID

EUT Pol :H Plan **Test Channel** :2437 MHz **Test Date** :2018-11-19 Temp./Humi. :25/60

Antenna Pol. :HORIZONTAL

Engineer :Enzo

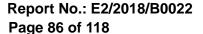


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
30.97	Peak	29.86	-4.16	25.70	40.00	-14.30
101.78	Peak	40.11	-14.49	25.62	43.50	-17.88
381.14	Peak	39.53	-6.89	32.64	46.00	-13.36
480.08	Peak	34.92	-4.92	30.00	46.00	-16.00
614.91	Peak	32.13	-2.96	29.17	46.00	-16.83
935.98	Peak	30.17	1.81	31.98	46.00	-14.02

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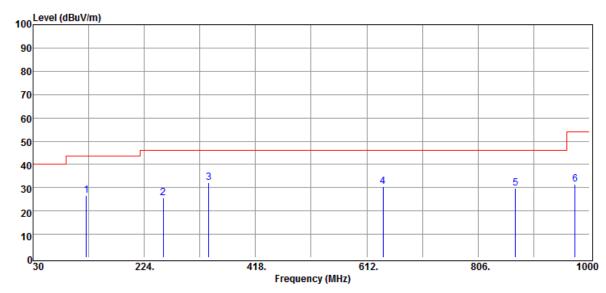
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Operation Mode :802.11n40 Test Mode :TX CH MID **EUT Pol** :H Plan **Test Channel** :2437 MHz

Test Date :2018-11-19 Temp./Humi. :25/60 Antenna Pol. :VERTICAL Engineer :Enzo

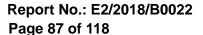


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
123.12	Peak	38.50	-11.91	26.59	43.50	-16.91
256.98	Peak	35.94	-10.20	25.74	46.00	-20.26
336.52	Peak	40.78	-8.47	32.31	46.00	-13.69
640.13	Peak	33.09	-2.52	30.57	46.00	-15.43
870.99	Peak	28.95	0.91	29.86	46.00	-16.14
974.78	Peak	28.76	2.68	31.44	54.00	-22.56

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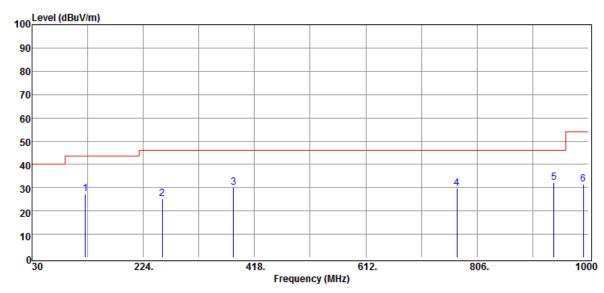
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Operation Mode :802.11n40 Test Mode :TX CH HIGH **EUT Pol** :H Plan Test Channel :2452 MHz

Test Date :2018-11-19 Temp./Humi. :25/60 Antenna Pol. :VERTICAL Engineer :Enzo

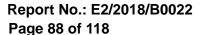


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
123.12	Peak	39.26	-11.91	27.35	43.50	-16.15
256.98	Peak	35.31	-10.20	25.11	46.00	-20.89
381.14	Peak	36.88	-6.89	29.99	46.00	-16.01
771.08	Peak	30.76	-0.93	29.83	46.00	-16.17
939.86	Peak	30.36	1.88	32.24	46.00	-13.76
991.27	Peak	28.51	3.09	31.60	54.00	-22.40

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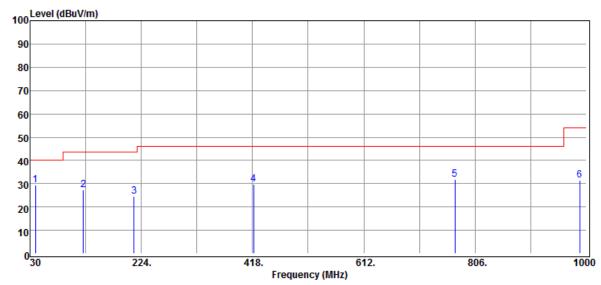




Operation Mode :802.11n40 **Test Date** :2018-11-19 Test Mode :TX CH HIGH Temp./Humi. :25/60

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2452 MHz Engineer :Enzo

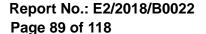


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
						_
39.70	Peak	37.74	-8.50	29.24	40.00	-10.76
123.12	Peak	39.20	-11.91	27.29	43.50	-16.21
211.39	Peak	37.33	-12.61	24.72	43.50	-18.78
419.94	Peak	35.59	-5.82	29.77	46.00	-16.23
771.08	Peak	32.72	-0.93	31.79	46.00	-14.21
988.36	Peak	28.64	3.01	31.65	54.00	-22.35

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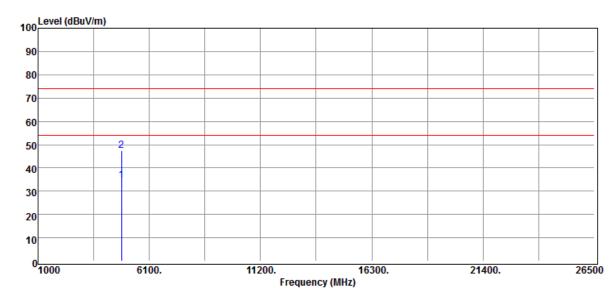




Above 1GHz Data:

Radiated Spurious Emission Measurement Result

Operation Mode :802.11b Test Date :2018-11-21 Test Mode :TX CH LOW Temp./Humi. :23/63 **EUT Pol** Antenna Pol. :VERTICAL :H Plan Test Channel :2412 MHz Engineer :Enzo



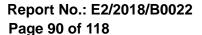
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	22.28	12.38	34.66	54.00	-19.34
4824.00	Peak	35.14	12.38	47.52	74.00	-26.48

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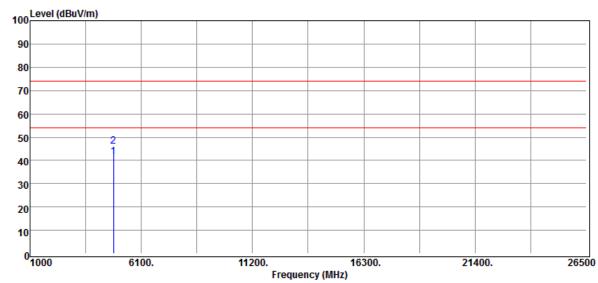




Operation Mode :802.11b **Test Date** :2018-11-21 Test Mode :TX CH LOW Temp./Humi. :23/63

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2412 MHz Engineer :Enzo

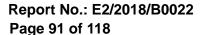


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	29.27	12.38	41.65	54.00	-12.35
4824.00	Peak	33.71	12.38	46.09	74.00	-27.91

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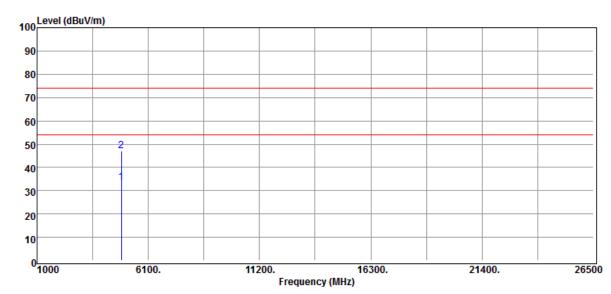
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Operation Mode :802.11b Test Mode :TX CH MID **EUT Pol** :H Plan Test Channel :2437 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo

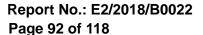


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	21.09	12.58	33.67	54.00	-20.33
4874.00	Peak	34.51	12.58	47.09	74.00	-26.91

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:2018-11-21

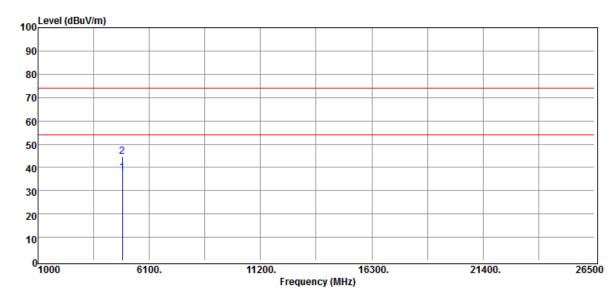
:23/63



Operation Mode :802.11b **Test Date** Test Mode :TX CH MID Temp./Humi.

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2437 MHz Engineer :Enzo

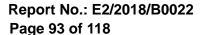


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4874.00	Average	25.07	12.58	37.65	54.00	-16.35
4874.00	Peak	32.20	12.58	44.78	74.00	-29.22

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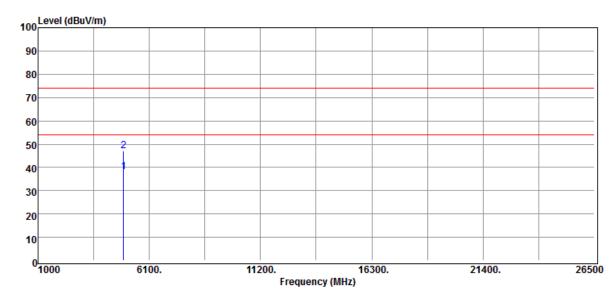
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Operation Mode :802.11b **Test Date** :2018-11-21 Test Mode :TX CH HIGH Temp./Humi. :23/63 **EUT Pol** Antenna Pol. :VERTICAL :H Plan Test Channel :2462 MHz Engineer :Enzo



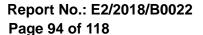
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4924.00	Average	25.23	12.78	38.01	54.00	-15.99
4924.00	Peak	34.21	12.78	46.99	74.00	-27.01

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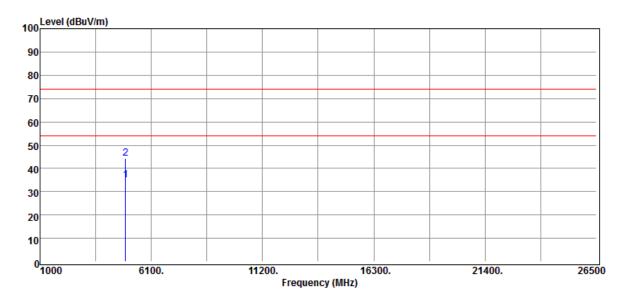




Operation Mode :802.11b **Test Date** :2018-11-21 Test Mode :TX CH HIGH Temp./Humi. :23/63

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2462 MHz Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4924.00	Average	22.02	12.78	34.80	54.00	-19.20
4924.00	Peak	31.51	12.78	44.29	74.00	-29.71

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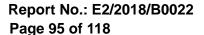
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SGS Taiwan Ltd.

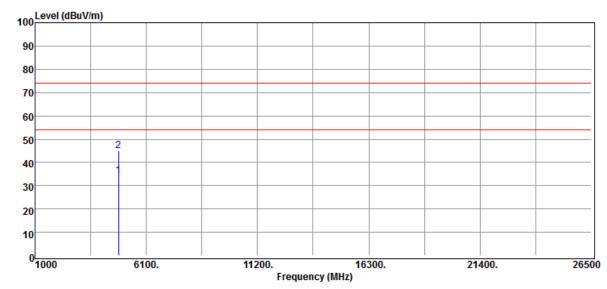
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Operation Mode :802.11g Test Mode :TX CH LOW **EUT Pol** :H Plan Test Channel :2412 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	21.93	12.38	34.31	54.00	-19.69
4824.00	Peak	32.54	12.38	44.92	74.00	-29.08

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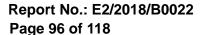
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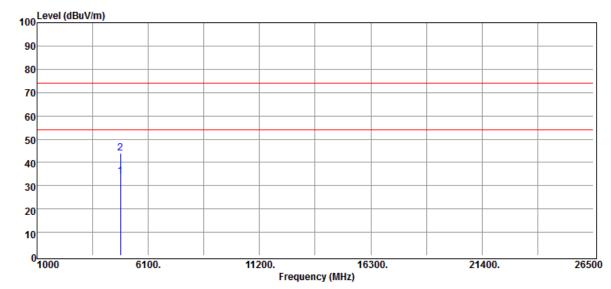


Operation Mode :802.11g Test Mode :TX CH LOW

EUT Pol :H Plan Test Channel :2412 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo



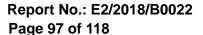
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	21.41	12.38	33.79	54.00	-20.21
4824.00	Peak	31.59	12.38	43.97	74.00	-30.03

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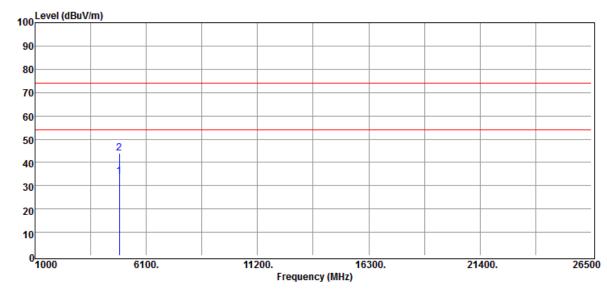
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Operation Mode :802.11g Test Mode :TX CH MID **EUT Pol** :H Plan Test Channel :2437 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo

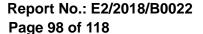


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	21.26	12.58	33.84	54.00	-20.16
4874.00	Peak	31.54	12.58	44.12	74.00	-29.88

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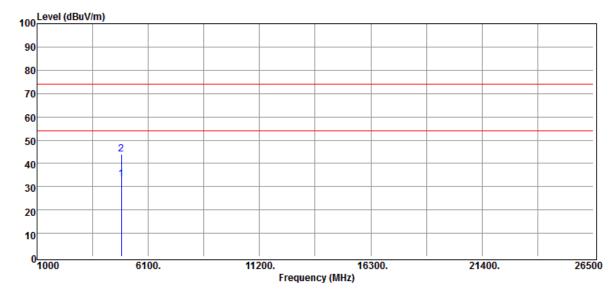
:23/63



Operation Mode Test Date :802.11g Test Mode :TX CH MID Temp./Humi.

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2437 MHz Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	20.64	12.58	33.22	54.00	-20.78
4874.00	Peak	31.33	12.58	43.91	74.00	-30.09

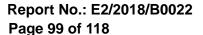
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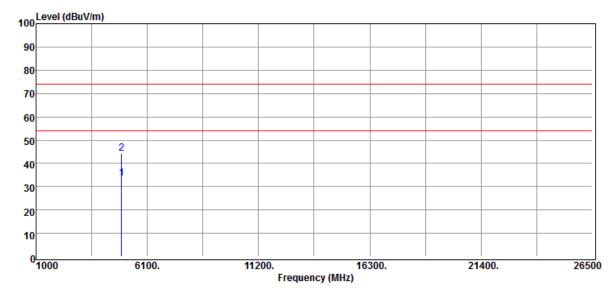
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Operation Mode Test Date :802.11g :2018-11-21 Test Mode :TX CH HIGH Temp./Humi. :23/63 **EUT Pol** Antenna Pol. :VERTICAL :H Plan Test Channel :2462 MHz Engineer :Enzo

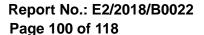


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBuV	dB	FS dBµV/m	@3m dBµV/m	dB
		<u> </u>	<u> </u>	G. 2 p. 17	<u> </u>	
4924.00	Average	20.90	12.78	33.68	54.00	-20.32
4924.00	Peak	31.63	12.78	44.41	74.00	-29.59

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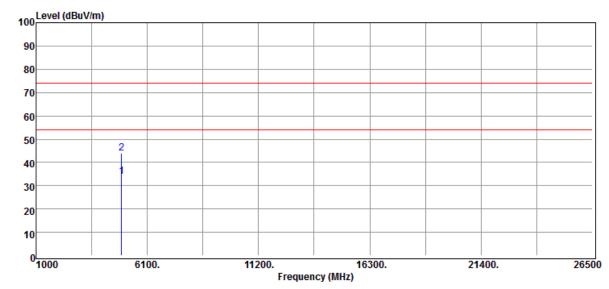


Operation Mode :802.11g Test Mode :TX CH HIGH

EUT Pol :H Plan Test Channel :2462 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	20.96	12.78	33.74	54.00	-20.26
4924.00	Peak	31.13	12.78	43.91	74.00	-30.09

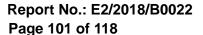
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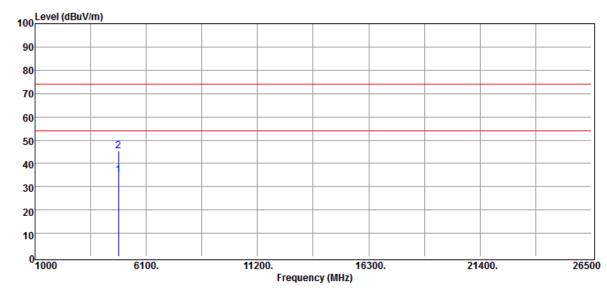
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Operation Mode :802.11n20 Test Mode :TX CH LOW **EUT Pol** :H Plan Test Channel :2412 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo

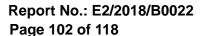


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	22.51	12.38	34.89	54.00	-19.11
4824.00	Peak	32.91	12.38	45.29	74.00	-28.71

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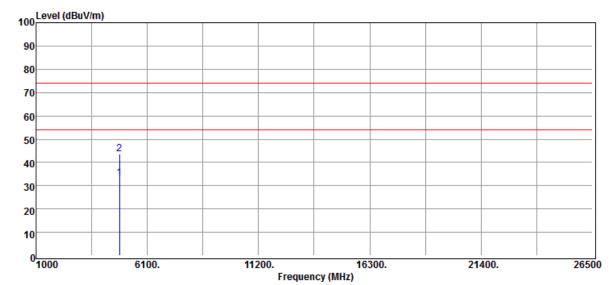
:23/63



Operation Mode :802.11n20 **Test Date** Test Mode :TX CH LOW Temp./Humi.

EUT Pol Antenna Pol. :HORIZONTAL :H Plan

Test Channel :2412 MHz Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	20.75	12.38	33.13	54.00	-20.87
4824.00	Peak	31.27	12.38	43.65	74.00	-30.35

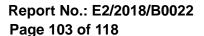
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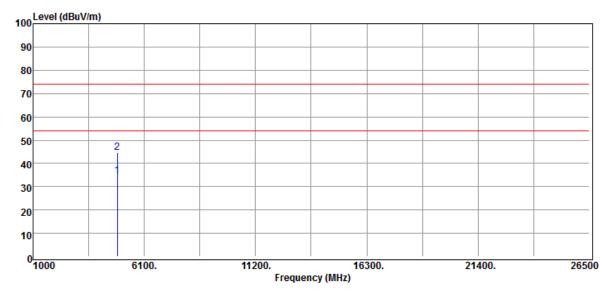
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Operation Mode :802.11n20 Test Mode :TX CH MID **EUT Pol** :H Plan Test Channel :2437 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	21.89	12.58	34.47	54.00	-19.53
4874.00	Peak	31.89	12.58	44.47	74.00	-29.53

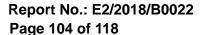
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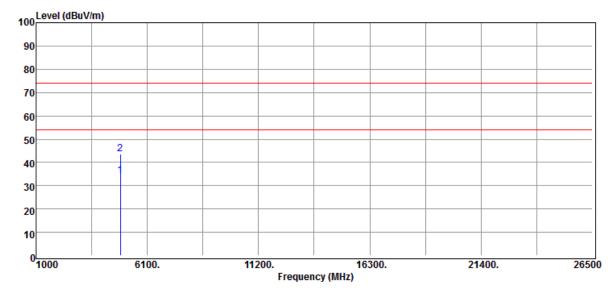


Operation Mode :802.11n20 Test Mode :TX CH MID

EUT Pol :H Plan Test Channel :2437 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo

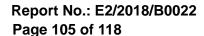


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	21.65	12.58	34.23	54.00	-19.77
4874.00	Peak	31.16	12.58	43.74	74.00	-30.26

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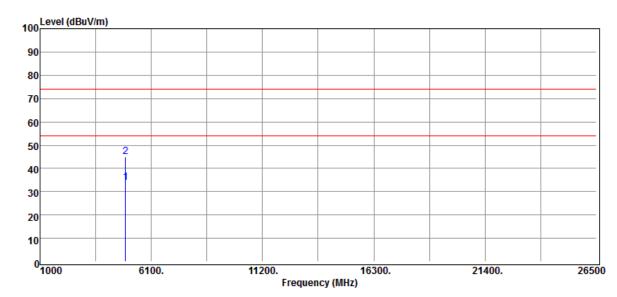
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Operation Mode :802.11n20 **Test Date** :2018-11-21 Test Mode :TX CH HIGH Temp./Humi. :23/63 **EUT Pol** Antenna Pol. :VERTICAL :H Plan Test Channel :2462 MHz Engineer :Enzo

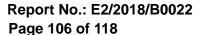


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4924.00	Average	21.12	12.78	33.90	54.00	-20.10
4924.00	Peak	32.32	12.78	45.10	74.00	-28.90

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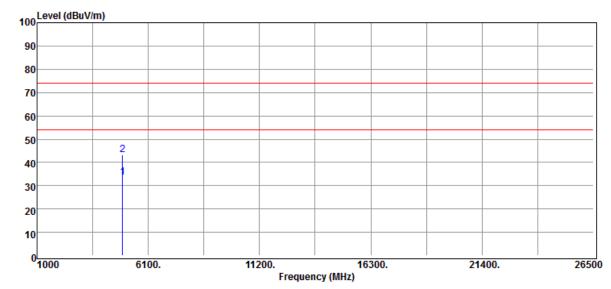


Operation Mode :802.11n20 Test Mode :TX CH HIGH

EUT Pol :H Plan Test Channel :2462 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo

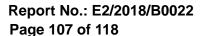


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	20.83	12.78	33.61	54.00	-20.39
4924.00	Peak	30.59	12.78	43.37	74.00	-30.63

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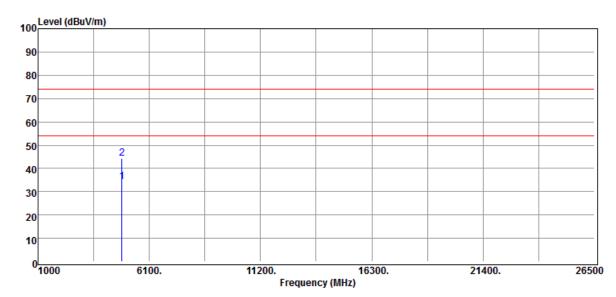
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Operation Mode :802.11n40 **Test Date** :2018-11-21 Test Mode :TX CH LOW Temp./Humi. :23/63 **EUT Pol** Antenna Pol. :VERTICAL :H Plan Test Channel :2422 MHz Engineer :Enzo

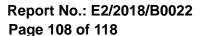


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	21.76	12.46	34.22	54.00	-19.78
4844.00	Peak	31.83	12.46	44.29	74.00	-29.71

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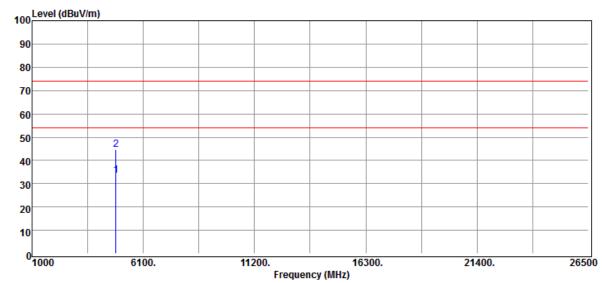


Operation Mode :802.11n40 Test Mode :TX CH LOW

EUT Pol :H Plan Test Channel :2422 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo

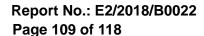


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4844.00	Average	21.05	12.46	33.51	54.00	-20.49
4844.00	Peak	32.04	12.46	44.50	74.00	-29.50

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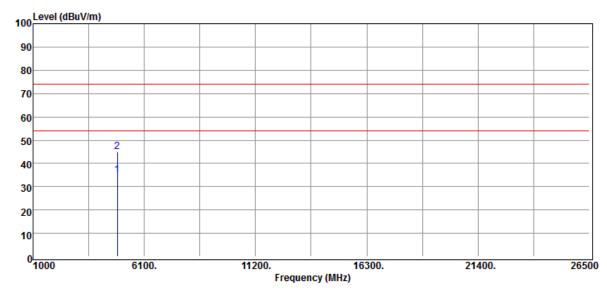
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Operation Mode :802.11n40 Test Mode :TX CH MID **EUT Pol** :H Plan Test Channel :2437 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo

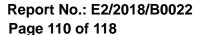


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	22.32	12.58	34.90	54.00	-19.10
4874.00	Peak	32.51	12.58	45.09	74.00	-28.91

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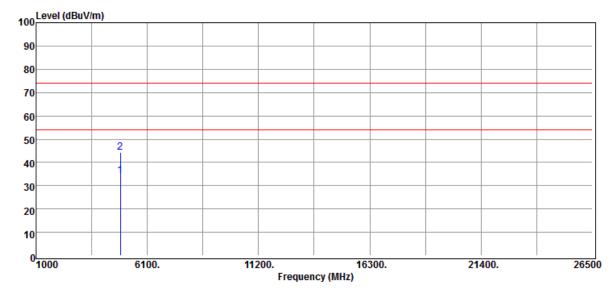


Operation Mode :802.11n40 Test Mode :TX CH MID

EUT Pol :H Plan Test Channel :2437 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	21.62	12.58	34.20	54.00	-19.80
4874.00	Peak	31.73	12.58	44.31	74.00	-29.69

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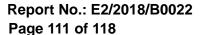
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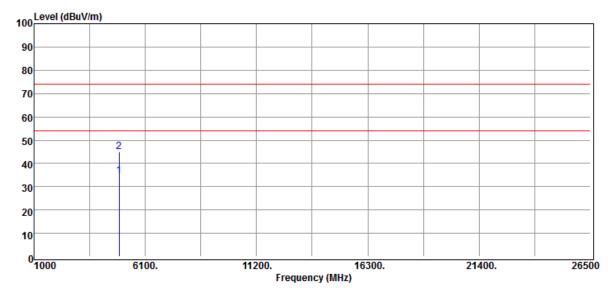
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Operation Mode :802.11n40 Test Mode :TX CH HIGH **EUT Pol** :H Plan Test Channel :2452 MHz

Test Date :2018-11-21 Temp./Humi. :23/63 Antenna Pol. :VERTICAL Engineer :Enzo



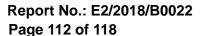
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4904.00	Average	21.80	12.72	34.52	54.00	-19.48
4904.00	Peak	32.12	12.72	44.84	74.00	-29.16

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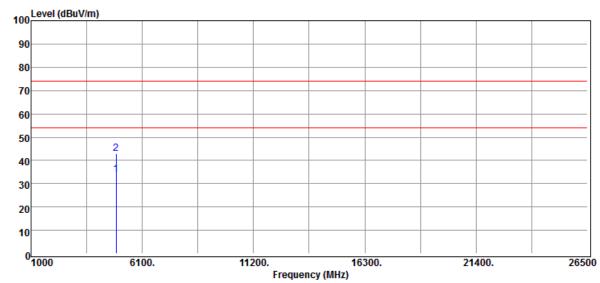


Operation Mode :802.11n40 Test Mode :TX CH HIGH

EUT Pol :H Plan Test Channel :2452 MHz **Test Date** :2018-11-21 Temp./Humi. :23/63

Antenna Pol. :HORIZONTAL

Engineer :Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	21.18	12.72	33.90	54.00	-20.10
4904.00	Peak	30.14	12.72	42.86	74.00	-31.14

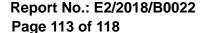
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12 POWER SPECTRAL DENSITY

Standard Applicable 12.1

Per Part 15.247 (e)

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.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

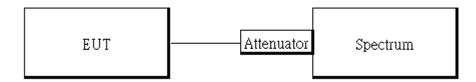
Per RSS-247 section 5.4 d

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

12.2 **Measurement Equipment Used**

Conducted Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	Agilent	N9010A	MY5144011 3	2018/06/20	2019/06/19	
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25	
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25	
Notebook	Lenovo	L420	S0011721	N/A	N/A	

Test Set-up 12.3

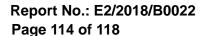


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12.4 Measurement Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz. & the VBW = 10 kHz
- 5. For defining Restricted Band Edge Limit: Set the RBW = 100kHz & VBW = 300 kHz.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

- (i) If transmit signals are correlated, then Directional gain
- = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N_{ANT}] dBi$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.].

The antenna gain is grater than 6 dBi, therefore the limit needs to be reduced as below:

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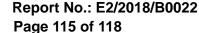
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

SGS Taiwan Ltd.

f (886-2) 2298-0488

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12.5 Measurement Result

	POWER DENSITY 802.11b				
Freq.	PPSD	Limit	Result		
(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result		
2412	-6.46	8.00	PASS		
2437	-5.94	8.00	PASS		
2462	-6.00	8.00	PASS		

POWER DENSITY 802.11g					
Freq.	PPSD	Limit	Result		
(MHz)	(dBm/3kHz)	(dBm/3kHz)	Resuit		
2412	-11.96	8.00	PASS		
2437	-13.78	8.00	PASS		
2462	-13.12	8.00	PASS		

	POWER DENSITY 802.11n HT20				
Freq.	PPSD	Limit	Docult		
(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result		
2412	-9.27	7.62	PASS		
2437	-9.12	7.62	PASS		
2462	-9.24	7.62	PASS		

	POWER DENSITY 802.11n HT40				
Freq.	PPSD	Limit	Result		
(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result		
2422	-13.48	7.62	PASS		
2437	-14.02	7.62	PASS		
2452	-14.12	7.62	PASS		

offset 10.80 dB for SISO mode offset 13.80 dB for MIMO mode

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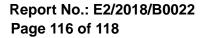
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^{*}Refer to next page for plots





Power Density_802.11b_20MHz_Chain0_2412MHz



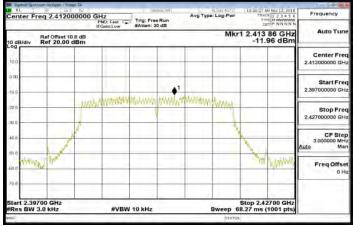
Power Density_802.11b_20MHz_Chain0_2437MHz



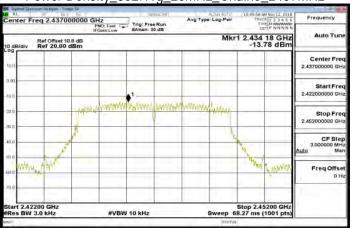
Power Density 802.11b 20MHz Chain0 2462MHz



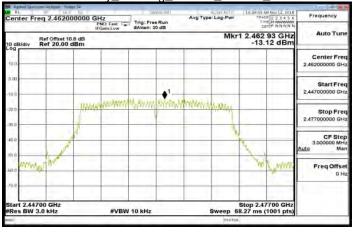
Power Density_802.11g_20MHz_Chain0_2412MHz



Power Density_802.11g_20MHz_Chain0_2437MHz



Power Density_802.11g_20MHz_Chain0_2462MHz

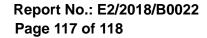


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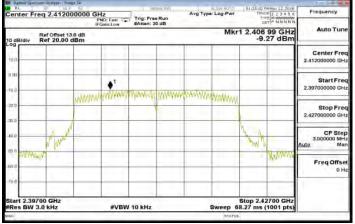
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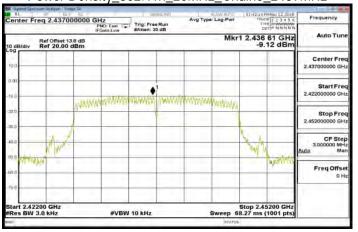




Power Density_802.11n_20MHz_Chain0_2412MHz



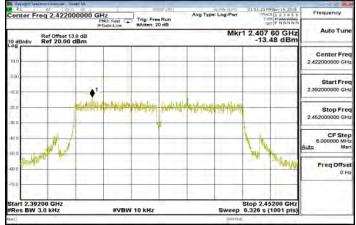
Power Density_802.11n_20MHz_Chain0_2437MHz



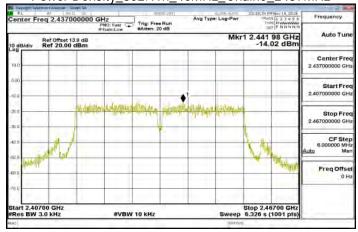
Power Density 802.11n 20MHz Chain0 2462MHz



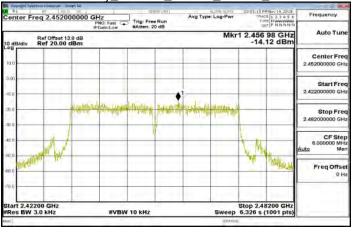
Power_Density_802.11n_40MHz_Chain0_2422MHz



Power Density_802.11n_40MHz_Chain0_2437MHz



Power Density_802.11n_40MHz_Chain0_2452MHz



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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

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

~ End of Report ~

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