



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Applicant: Microsoft Corporation

One Microsoft Way, Redmond, WA 98052-6399 USA

Portable Computing Device **Product Name:**

Brand Name: Microsoft Model No.: 1824 **Model Difference:** N/A

FCC ID: C3K1824 IC: 3048A-1824 **Report Number:** E2/2018/10171 **FCC Rule Part:** §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Jun. 08, 2018

Jan. 17, 2018 ~ Jun. 08, 2018 **Date of Test:**

Date of EUT Received: Jan. 17, 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:

Vito Pei / Sr. Engineer

Approved By:

Jim Chang / Manager





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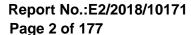
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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/10172	Rev.00	Initial creation of document	All	Jun. 08, 2018	Tiffany Kao

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Section

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GENERAL INFORMATION

1.1 Product description

General:

eneral.				
Product Name:	Portable C	Computing Device		
Brand Name:	Microsoft			
Model No.:	1824			
Model Difference:	N/A			
Product SW/HW version:	Windows 10 Pro / EV1824			
Radio SW/HW version:	12.0.0.461 / V3.2			
Test SW Version:	N/A			
RF power setting in TEST SW:	N/A			
	7.66Vdc from Rechargeable Li-ion Battery or 15V from AC/DC Adapter			
Power Supply:	Battery:	Model No.: G16QA043H, Supplier: SMP		
	Adapter:	Model No.: 1735, Supplier: LITEON		

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	HT/VHT mode	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Type of Emission	Modulation Technology
802.11b				14.42	17.30	13M2G1D	DSSS,
802.11g	0440.0470	40		24.41	24.24	16M6D1D	
802.11n HT20 / ac VHT20	2412-2472	2412-2472 13	НТ	24.94	24.39	17M7D1D	OFDM
802.11n HT40 / ac VHT40	2422-2462	7	НТ	24.82	24.37	36M2D1D	

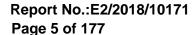
Antenna Designation:	Loop Antenna, Main Antenna Gain: 2.70 dBi Aux Antenna Gain: 2.08 dBi
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 v04 DTS Meas. Guidance

FCC KDB 662911 D01 Multiple Transmitter Output

Canada RSS-247 issue 2 Feb. 2017

Canada 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 Numbers are: 735305 / TW0002

Canada Registration Number: 4620A-5 .

1.4 Special Accessories

AC Adapter is used while the test is conducted and there is no other accessory attached. This is the worst case condition.

1.5 Equipment Modifications

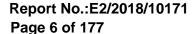
There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT is configured to operate in a continuous transmission mode. EUT placement and various angles were checked to find worst mode where the emission characteristics are maximized.

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 **Conducted Emissions**

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

2.3.2 **Radiated Emissions**

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground 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.

Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =10.6 (dB)

2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission Configuration



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

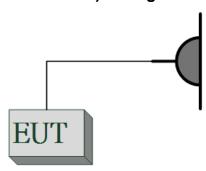


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	R9-YYG88	Shielded	Unshielded

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SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 (1) RSS-Gen §6.7	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2(2)	Power Spectral Density	Compliant
§15.203	RSS- Gen §6.8	Antenna Requirement	Compliant

DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

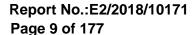
	<u> </u>		
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

9 channels are provided for 802.11n_HT40

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

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- 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.
- 4. For MIMO modes, the 2TX emission testing was considered as a worst case scenario and was performed at power levels, per transimit chain, greater than or equal to the maximum power in any 1TX mode.
- 5. Power line conducted emission were performed with the EUT set to transimit at the channel with highest output power as worst-case scenario.
- 6. For 802.11n HT and VHT modes, the HT emission testing was considered as a worst case scenario and was performed at power levels, per transimit chain, greater than or equal to the maximum power in any HT mode.

AC POWER LINE CONDUCTION EMISSION

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE		
802.11n 20MHz		Operation in normal mode				

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	2TX		

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11b	1 to 13	1, 6, 11,12,13	DSSS	1	2TX		
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	2TX		
802.11n HT20	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO		
802.11n HT40	3 to 11	3, 6, 9,10,11	OFDM	MCS 8	MIMO		

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST							
MODE	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA		
IVIODE	CHANNEL	CHANNEL	MODULATION	(Mbps)	PORT		
802.11b	1 to 13	1, 6, 11,12,13	DSSS	1	2TX		
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	2TX		
802.11n HT20	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO		
802.11n HT40	3 to 11	3, 6, 9,10,11	OFDM	MCS 8	MIMO		

Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

- d) Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi
 - If transmit signals are correlated, then (i) Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 / N_{ANT}]$ 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.]

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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 (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

6.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
EMI Test Receiver	R&S	ESCI 7	100950	12/24/2017	12/23/2018				
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2017	08/29/2018				
LISN	Schwarzbeck	NSLK 8127	8127-648	06/18/2017	06/17/2018				
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.				

6.3 EUT Setup

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

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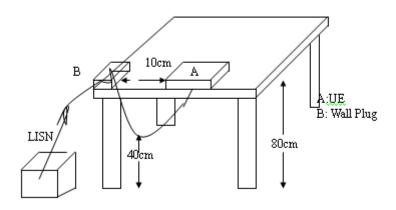
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^{1.} The lower limit shall apply at the transition frequencies

^{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

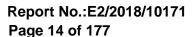
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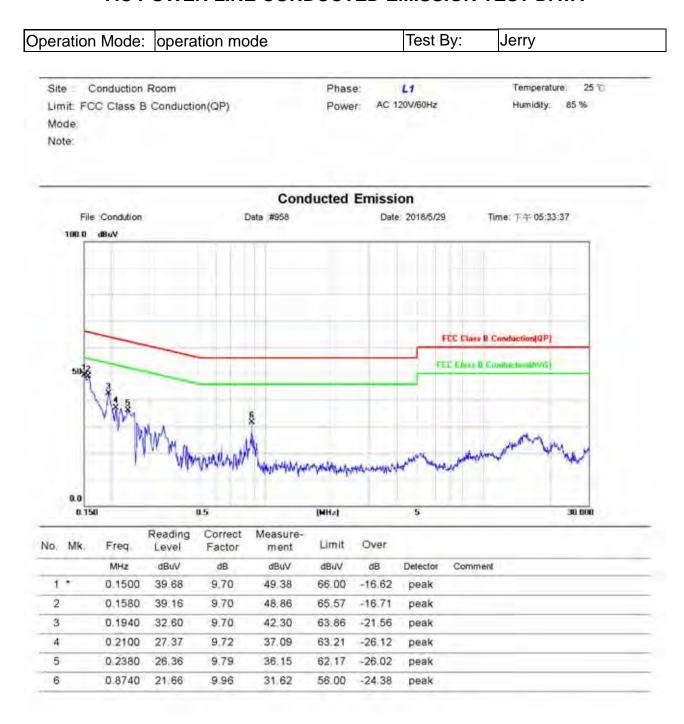
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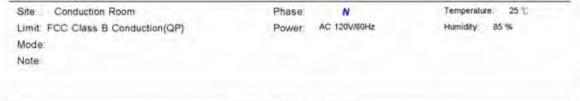
AC POWER LINE CONDUCTED EMISSION TEST DATA

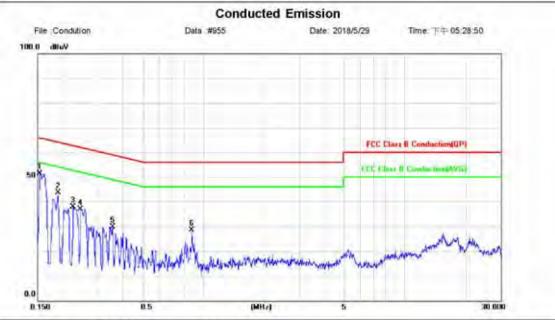


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MHz 0.1548 0.1900	dBuV 41.69 33.98	dB 9.70 9.70	dBuV 51.39 43.68	dBuV 65.74	dB -14.35	Detector peak	Comment
	-				-14.35	peak	
0.1900	33.98	9.70	12 66	4.14.2			
			40.00	64.04	-20.36	peak	
0.2260	28.14	9.76	37.90	62.60	-24.70	peak	
0.2460	27.14	9.81	36.95	61 89	-24.94	peak	
0.3540	19.92	10.08	30.00	58.87	-28.87	peak	
0700	18.79	9.96	28.75	56.00	-27.25	peak	
-	3540 8780	77.74	2000	77.77	7777 1778 1777 2777 2777		



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	98.96	0.05	0.08	1.00
802.11g	94.72	0.24	0.49	1.00
802.11n_20	94.31	0.25	0.52	1.00
802.11n_40	82.01	0.86	2.02	3.00

b = 98.96%, *g* = 94.72%,*n*_*ht*_20 = 94.308%

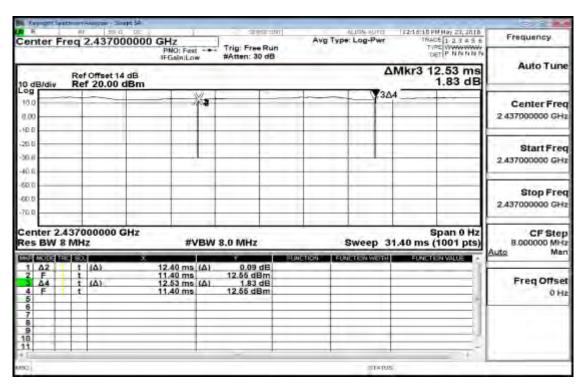
Duty Cycle Factor: $10 * \log(1/0.9896) = 0.05$ Duty Cycle Factor: $10 * \log(1/0.9472) = 0.24$ Duty Cycle Factor: $10 * \log(1/0.94308) = 0.25$ Duty Cycle Factor: $10 * \log(1/0.8201) = 0.86$

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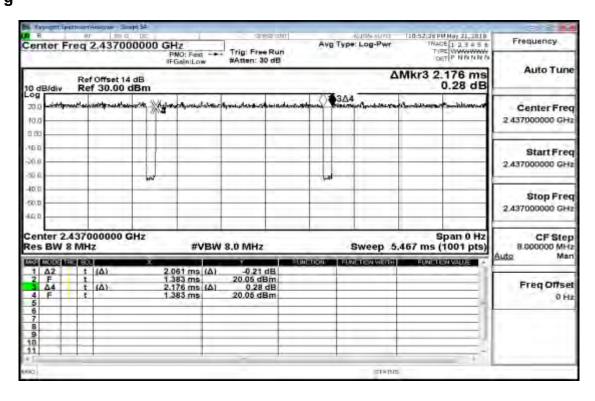
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result 802.11 b



802.11 g



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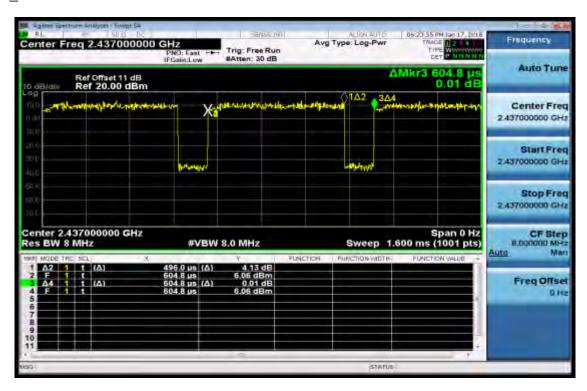
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802.11 n_20 MHz



802.11 n_40 MHz



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8 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(4)

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 1W. Except as provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

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.

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT \leq 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

Note:

Main Antenna Gain:	2.70	dBi
Aux1 Antenna Gain:	2.08	dBi

Number Antenna: 2 pcs Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = $10log(((G1+G2+....)^2)/number$ of antenna element) MIMO gain = 5.41

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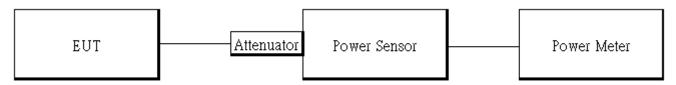


8.2 Measurement Equipment Used

Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018					
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018					
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018					
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018					
Coaxial Cable	WOKEN	00100A1F1A	RF01	12/24/2017	12/23/2018					
30cm	WORLIN	195C	IXI O I	12/24/2017	12/23/2010					
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018					
Splitter	RF-LAMBAD	RFLT2W1G1	RF35	12/24/2017	12/23/2018					
Spilitei	IXI -LAIVIDAD	8G	1/1/33	12/24/2017	12/23/2010					
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018					

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.

Note: The reported CH0 and CH1 power values in the 2Tx and MIMO tables were measured whe performing additional measurements and all reported values are within compliance.

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8.5 Measurement Result

802.1	802.11b CH0							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Limit		RESULT	
1	2412	1	11.28	1 Watt =	30.00	dBm	PASS	
6	2437	1	11.17	1 Watt =	30.00	dBm	PASS	
11	2462	1	11.45	1 Watt =	30.00	dBm	PASS	
12	2467	1	11.39	1 Watt =	30.00	dBm	PASS	
13	2472	1	11.38	1 Watt =	30.00	dBm	PASS	
802.1	1b CH0							
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT			
1	2412	1	8.94	1 Watt =	30.00	dBm	PASS	
6	2437	1	8.95	1 Watt =	30.00	dBm	PASS	
11	2462	1	8.93	1 Watt =	30.00	dBm	PASS	
12	2467	1	8.96	1 Watt =	30.00	dBm	PASS	
13	2472	1	8.95	1 Watt =	30.00	dBm	PASS	

802.1	802.11b CH1							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Limit		RESULT	
1	2412	1	11.06	1 Watt =	30.00	dBm	PASS	
6	2437	1	10.72	1 Watt =	30.00	dBm	PASS	
11	2462	1	11.21	1 Watt =	30.00	dBm	PASS	
12	2467	1	11.36	1 Watt =	30.00	dBm	PASS	
13	2472	1	11.28	1 Watt =	30.00	dBm	PASS	
802.1	1b CH1							
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit			RESULT	
1	2412	1	8.76	1 Watt =	30.00	dBm	PASS	
6	2437	1	8.74	1 Watt =	30.00	dBm	PASS	
11	2462	1	8.82	1 Watt =	30.00	dBm	PASS	
12	2467	1	8.89	1 Watt =	30.00	dBm	PASS	
13	2472	1	8.84	1 Watt =	30.00	dBm	PASS	

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802.1	1b_2TX									
СН	Freq. (MHz)	Data Rate	Por (dE	Output wer Bm)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit		RESULT	
			CH 0	CH 1						
1	2412	1	11.45	11.37	14.42	27.67	1 Watt =	30.00	dBm	PASS
6	2437	1	11.43	11.24	14.35	27.20	1 Watt =	30.00	dBm	PASS
11	2462	1	11.39	11.18	14.30	26.89	1 Watt =	30.00	dBm	PASS
12	2467	1	11.35	11.11	14.24	26.56	1 Watt =	30.00	dBm	PASS
13	2472	1	11.29	11.03	14.17	26.14	1 Watt =	30.00	dBm	PASS
802.1	1b_2TX									
СН	Freq. (MHz)	Data Rate	Por (dE	Output wer Bm)	Max. Avg. Output include tune up tolerance Power	Max. Avg. Output include tune up tolerance Power	Limit			RESULT
			CH 0	CH 1	(dBm)	(mW)				
1	2412	1	8.92	8.76	11.90	15.48	1 Watt =	30.00	dBm	PASS
6	2437	1	8.83	8.68	11.81	15.18	1 Watt =	30.00	dBm	PASS
11	2462	1	8.78	8.57	11.73	14.90	1 Watt =	30.00	dBm	PASS
12	2467	1	8.71	8.53	11.68	14.71	1 Watt =	30.00	dBm	PASS
13	2472	1	8.63	8.50	11.62	14.53	1 Watt =	30.00	dBm	PASS

802.1	1g CH0							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit RESU				
1	2412	6	21.47	1 Watt =	30.00	dBm	PASS	
6	2437	6	21.59	1 Watt =	30.00	dBm	PASS	
11	2462	6	21.53	1 Watt =	30.00	dBm	PASS	
12	2467	6	20.62	1 Watt =	30.00	dBm	PASS	
13	2472	6	14.47	1 Watt =	30.00	dBm	PASS	
802.1	1g CH0							
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT			
1	2412	6	15.98	1 Watt =	30.00	dBm	PASS	
6	2437	6	15.97	1 Watt =	30.00	dBm	PASS	
11	2462	6	15.95	1 Watt =	30.00	dBm	PASS	
12	2467	6	14.92	1 Watt =	30.00	dBm	PASS	
13	2472	6	8.94	1 Watt =	30.00	dBm	PASS	

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802.1	802.11g CH1									
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		RESULT					
1	2412	6	21.31	1 Watt =	PASS					
6	2437	6	21.42	1 Watt =	30.00	dBm	PASS			
11	2462	6	21.38	1 Watt =	30.00	dBm	PASS			
12	2467	6	20.56	1 Watt =	30.00	dBm	PASS			
13	2472	6	14.01	1 Watt =	30.00	dBm	PASS			
802.1	1g CH1									
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT					
1	2412	6	15.93	1 Watt =	30.00	dBm	PASS			
6	2437	6	15.89	1 Watt =	30.00	dBm	PASS			
11	2462	6	15.91	1 Watt =	30.00	dBm	PASS			
12	2467	6	14.86	1 Watt =	30.00	dBm	PASS			
13	2472	6	8.86	1 Watt =	30.00	dBm	PASS			

802.1	802.11g_2TX										
СН	Freq. (MHz)	Data Rate	Pov	Output wer Bm)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit			RESULT	
			CH 0	CH1		,					
1	2412	6	21.17	21.28	24.24	265.19	1 Watt =	30.00	dBm	PASS	
6	2437	6	21.27	21.42	24.36	272.64	1 Watt =	30.00	dBm	PASS	
11	2462	6	21.35	21.45	24.41	276.10	1 Watt =	30.00	dBm	PASS	
12	2467	6	21.18	21.37	24.29	268.31	1 Watt =	30.00	dBm	PASS	
13	2472	6	15.61	15.48	18.56	71.71	1 Watt =	30.00	dBm	PASS	
802.1	1g_2TX										
СН	Freq. (MHz)	Data Rate	Pov (dE	Output wer Bm)	Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)		Limit		RESULT	
			CH 0	CH1	, ,	, ,					
1	2412	6	15.56	15.22	18.64	73.10	1 Watt =	30.00	dBm	PASS	
6	2437	6	15.39	15.18	18.53	71.32	1 Watt =	30.00	dBm	PASS	
11	2462	6	15.71	15.46	18.83	76.43	1 Watt =	30.00	dBm	PASS	
12	2467	6	14.84	14.74	18.04	63.62	1 Watt =	30.00	dBm	PASS	
13	2472	6	9.06	8.98	12.27	16.85	1 Watt =	30.00	dBm	PASS	

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802.1	802.11n_HT20M CH0									
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		RESULT					
1	2412	MCS0	21.71	1 Watt =	PASS					
6	2437	MCS0	21.59	1 Watt =	30.00	dBm	PASS			
11	2462	MCS0	21.96	1 Watt =	30.00	dBm	PASS			
12	2467	MCS0	19.57	1 Watt =	30.00	dBm	PASS			
13	2472	MCS0	10.23	1 Watt =	30.00	dBm	PASS			
802.1	1n_HT20M	Ch0								
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	I	RESULT					
1	2412	MCS0	15.92	1 Watt =	30.00	dBm	PASS			
6	2437	MCS0	15.96	1 Watt =	30.00	dBm	PASS			
11	2462	MCS0	15.95	1 Watt =	30.00	dBm	PASS			
12	2467	MCS0	13.27	1 Watt =	30.00	dBm	PASS			
13	2472	MCS0	4.38	1 Watt =	30.00	dBm	PASS			

802.1	1n_HT20M	CH1					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		RESULT		
1	2412	MCS0	21.66	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	21.49	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	21.85	1 Watt =	30.00	dBm	PASS
12	2467	MCS0	19.43	1 Watt =	30.00	dBm	PASS
13	2472	MCS0	10.05	1 Watt =	30.00	dBm	PASS
802.1	1n_HT20M	CH1					
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit			RESULT
1	2412	MCS0	15.87	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	15.88	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	15.92	1 Watt =	30.00	dBm	PASS
12	2467	MCS0	13.15	1 Watt =	30.00	dBm	PASS
13	2472	MCS0	4.24	1 Watt =	30.00	dBm	PASS

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802.1	802.11n_HT20M MIMO									
СН	Freq. (MHz)	Data Rate	Po	Output wer 3m)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit		RESULT	
1	2412	MCS8	21.43	22.18	24.83	304.19	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	21.57	22.26	24.94	311.82	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	21.39	21.97	24.70	295.12	1 Watt =	30.00	dBm	PASS
12	2467	MCS8	19.74	19.77	22.77	189.03	1 Watt =	30.00	dBm	PASS
13	2472	MCS8	10.55	11.03	13.81	24.03	1 Watt =	30.00	dBm	PASS
802.1	1n_HT20	M MIMC)							
СН	Freq. (MHz)	Data Rate	Po	Output wer 3m)	Max. Avg. Output include tune up tolerance Power	Max. Avg. Output include tune up tolerance Power		Limit		RESULT
			CH 0	CH 1	(dBm)	(mW)				
1	2412	MCS8	15.59	15.85	18.99	79.19	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	15.61	15.71	18.93	78.07	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	15.53	15.71	18.89	77.37	1 Watt =	30.00	dBm	PASS
12	2467	MCS8	13.44	12.91	16.45	44.14	1 Watt =	30.00	dBm	PASS
13	2472	MCS8	4.33	4.10	7.48	5.60	1 Watt =	30.00	dBm	PASS

802.1	1n_HT40M	CH0						
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit RESULT				
3	2422	MCS0	22.05	1 Watt =	dBm	PASS		
6	2437	MCS0	21.84	1 Watt =	30.00	dBm	PASS	
9	2452	MCS0	21.92	1 Watt =	30.00	dBm	PASS	
10	2457	MCS0	19.61	1 Watt =	30.00	dBm	PASS	
11	2462	MCS0	15.37	1 Watt =	30.00	dBm	PASS	
802.1	1n_HT40M	CH0						
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT			
3	2422	MCS0	15.98	1 Watt =	30.00	dBm	PASS	
6	2437	MCS0	15.97	1 Watt =	30.00	dBm	PASS	
9	2452	MCS0	15.95	1 Watt =	30.00	dBm	PASS	
10	2457	MCS0	13.87	1 Watt =	30.00	dBm	PASS	
11	2462	MCS0	8.96	1 Watt =	30.00	dBm	PASS	



802.1	1n_HT40M	CH1					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT
3	2422	MCS0	21.99	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	21.76	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	21.86	1 Watt =	30.00	dBm	PASS
10	2457	MCS0	19.53	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	15.41	1 Watt =	30.00	dBm	PASS
802.1	1n_HT40M	CH1					
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT		
3	2422	MCS0	15.93	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	15.85	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	15.86	1 Watt =	30.00	dBm	PASS
10	2457	MCS0	13.76	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	8.86	1 Watt =	30.00	dBm	PASS

802.1	802.11n_HT40M MIMO										
СН	Freq. (MHz)	Data Rate	Po (dE	Output wer Bm)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit		RESULT		
			CH 0	CH 1	, ,						
3	2422	MCS8	22.47	21.03	24.82	303.37	1 Watt =	30.00	dBm	PASS	
6	2437	MCS8	22.27	21.00	24.69	294.55	1 Watt =	30.00	dBm	PASS	
9	2452	MCS8	22.18	20.89	24.59	287.94	1 Watt =	30.00	dBm	PASS	
10	2457	MCS8	20.38	19.72	23.07	202.77	1 Watt =	30.00	dBm	PASS	
11	2462	MCS8	14.92	14.88	17.91	61.81	1 Watt =	30.00	dBm	PASS	
802.1	1n_HT40M	MIMO									
СН	Freq. (MHz)	Data Rate	Po	Output wer 3m) CH 1	Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit			RESULT	
3	2422	MCS8	15.81	14.22	18.95	78.60	1 Watt =	30.00	dBm	PASS	
6	2437	MCS8	15.82	14.14	18.93	78.12	1 Watt =	30.00	dBm	PASS	
9	2452	MCS8	15.78	14.21	18.93	78.21	1 Watt =	30.00	dBm	PASS	
10	2457	MCS8	13.34	12.83	16.96	49.66	1 Watt =	30.00	dBm	PASS	
11	2462	MCS8	8.23	7.76	11.87	15.38	1 Watt =	30.00	dBm	PASS	



802.1	1n_VHT20N	Л СНO					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		RESULT		
1	2412	MCS0	21.56	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	21.45	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	21.81	1 Watt =	30.00	dBm	PASS
12	2467	MCS0	19.46	1 Watt =	30.00	dBm	PASS
13	2472	MCS0	10.12	1 Watt =	30.00	dBm	PASS
802.1	1n_VHT20N	Л СНО					
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT		
1	2412	MCS0	15.77	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	15.80	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	15.81	1 Watt =	30.00	dBm	PASS
12	2467	MCS0	13.15	1 Watt =	30.00	dBm	PASS

802.1	1n_VHT20	M CH1					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT
1	2412	MCS0	21.48	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	21.33	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	21.70	1 Watt =	30.00	dBm	PASS
12	2467	MCS0	19.34	1 Watt =	30.00	dBm	PASS
13	2472	MCS0	9.98	1 Watt =	30.00	dBm	PASS
802.1	1n_VHT20	M CH1					
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)		RESULT		
1	2412	MCS0	15.69	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	15.74	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	15.77	1 Watt =	30.00	dBm	PASS
12	2467	MCS0	13.10	1 Watt =	30.00	dBm	PASS
13	2472	MCS0	4.17	1 Watt =	30.00	dBm	PASS



802.1	1n_VHT2	OM MIN	10							
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)		Limit		RESULT
			CH 0	CH 1						
1	2412	MCS8	21.07	21.78	24.45	278.60	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	21.26	21.84	24.57	286.42	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	21.44	21.99	24.73	297.44	1 Watt =	30.00	dBm	PASS
12	2467	MCS8	19.58	19.61	22.61	182.39	1 Watt =	30.00	dBm	PASS
13	2472	MCS8	10.39	10.85	13.64	23.12	1 Watt =	30.00	dBm	PASS
802.1	1n_VHT2	20M MIN	10							
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Max. Avg. Output include tune up tolerance Power	Max. Avg. Output include tune up tolerance Power		Limit		RESULT
			CH 0	CH 1	(dBm)	(mW)				
1	2412	MCS8	15.52	15.77	18.91	77.83	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	15.33	15.58	18.72	74.50	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	15.46	15.75	18.87	77.13	1 Watt =	30.00	dBm	PASS
12	2467	MCS8	13.26	12.76	16.28	42.46	1 Watt =	30.00	dBm	PASS
13	2472	MCS8	4.14	3.95	7.31	5.38	1 Watt =	30.00	dBm	PASS



802.1	302.11n_VHT40M CH0									
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT			
3	2422	MCS0	21.88	1 Watt =	30.00	dBm	PASS			
6	2437	MCS0	21.66	1 Watt =	30.00	dBm	PASS			
9	2452	MCS0	21.76	1 Watt =	30.00	dBm	PASS			
10	2457	MCS0	19.49	1 Watt =	30.00	dBm	PASS			
11	2462	MCS0	15.18	1 Watt =	30.00	dBm	PASS			
802.1	1n_VHT40N	Л СНО								
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	1	Limit		RESULT			
3	2422	MCS0	15.82	1 Watt =	30.00	dBm	PASS			
6	2437	MCS0	15.81	1 Watt =	30.00	dBm	PASS			
9	2452	MCS0	15.79	1 Watt =	30.00	dBm	PASS			
10	2457	MCS0	13.78	1 Watt =	30.00	dBm	PASS			
11	2462	MCS0	8.84	1 Watt =	30.00	dBm	PASS			

802.1	1n_VHT40	M CH1					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)			RESULT	
3	2422	MCS0	21.84	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	21.61	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	21.72	1 Watt =	30.00	dBm	PASS
10	2457	MCS0	19.44	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	15.13	1 Watt =	30.00	dBm	PASS
802.1	1n_VHT40	M CH1					
	_		Max. Avg. Output				
СН	Freq. (MHz)	Data Rate	include tune up tolerance Power (dBm)		Limit		RESULT
CH 3			tolerance Power	1 Watt =	Limit 30.00	dBm	RESULT PASS
	(MHz)	Rate	tolerance Power (dBm)			dBm dBm	
3	(MHz) 2422	Rate MCS0	tolerance Power (dBm) 15.78	1 Watt =	30.00		PASS
3 6	(MHz) 2422 2437	Rate MCS0 MCS0	tolerance Power (dBm) 15.78 15.68	1 Watt = 1 Watt =	30.00	dBm	PASS PASS



802.1	1n_VHT40l	M MIMO								
СН	Freq. (MHz)	Data Rate	Pov	Output wer Bm)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)		Limit		RESULT
			CH 0	CH 1	(ubiii)	(11117)				
3	2422	MCS8	22.33	20.84	24.66	292.34	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	22.09	20.83	24.52	282.87	1 Watt =	30.00	dBm	PASS
9	2452	MCS8	22.01	20.75	24.44	277.70	1 Watt =	30.00	dBm	PASS
10	2457	MCS8	20.16	19.65	23.78	238.75	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	14.83	14.72	18.64	73.15	1 Watt =	30.00	dBm	PASS
802.1	1n_VHT40I	M MIMO								
СН	Freq. (MHz)	Data Rate	Pov (dE	Output wer Bm)	Max. Avg. Output include tune up tolerance Power	Max. Avg. Output include tune up tolerance Power		Limit		RESULT
			CH 0	CH 1	(dBm)	(mW)				
3	2422	MCS8		14.06	18.78	75.55	1 Watt =	30.00	dBm	PASS
6	2437	MCS8		13.99	18.77	75.26	1 Watt =	30.00	dBm	PASS
9	2452	MCS8	15.62	14.03	18.76	75.24	1 Watt =	30.00	dBm	PASS
10	2457	MCS8	13.24	12.68	16.84	48.26	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	7.99	7.75	11.74	14.93	1 Watt =	30.00	dBm	PASS

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

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Section

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EIRP

802.1	1b_2TX											
СН	Freq. (MHz)	Data Rate	Pov	Output wer Bm)	Avg. Output Power	Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT	
			CH 0	CH 1	(dBm)	(mW)	(uDi)					
1	2412	1	8.92	8.76	11.89	15.46	5.41	17.30	4W=	36	dBm	PASS
6	2437	1	8.83	8.68	11.81	15.16	5.41	17.22	4W=	36	dBm	PASS
11	2462	1	8.78	8.57	11.73	14.89	5.41	17.14	4W=	36	dBm	PASS
12	2467	1	8.71	8.53	11.67	14.56	5.41	17.08	4W=	36	dBm	PASS
13	2472	1	8.63	8.50	11.62	14.37	5.41	17.03	4W=	36	dBm	PASS

802.1	1g_2TX											
СН	Freq. (MHz)	Data Rate	Pov	Output wer Bm)	Avg. Output Power	Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT	
			CH 0	CH 1	(dBm)	(mW)	(uDi)					
1	2412	6	15.56	15.22	18.64	73.10	5.41	24.05	4W=	36	dBm	PASS
6	2437	6	15.39	15.18	18.53	71.32	5.41	23.94	4W=	36	dBm	PASS
11	2462	6	15.71	15.46	18.83	76.43	5.41	24.24	4W=	36	dBm	PASS
12	2467	6	14.84	14.74	18.04	60.26	5.41	23.45	4W=	36	dBm	PASS
13	2472	6	9.06	8.98	12.27	15.96	5.41	17.68	4W=	36	dBm	PASS

802.1	1n_HT20/	OMIM N										
СН	Freq. (MHz)	Data Rate	Pov	Output wer Bm)	Avg. Output Power	Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT	
			CH 0	CH 1	(dBm)	(mW)	(u.b.i)					
1	2412	MCS8	15.59	15.85	18.99	79.19	5.41	24.40	4W=	36	dBm	PASS
6	2437	MCS8	15.61	15.71	18.93	78.07	5.41	24.34	4W=	36	dBm	PASS
11	2462	MCS8	15.53	15.71	18.89	77.37	5.41	24.30	4W=	36	dBm	PASS
12	2467	MCS8	13.44	12.91	16.45	41.62	5.41	21.86	4W=	36	dBm	PASS
13	2472	MCS8	4.33	4.10	7.48	5.28	5.41	12.89	4W=	36	dBm	PASS

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802.1	802.11n_HT40M MIMO													
СН	Freq. (MHz)	Data Rate	Po	Output wer 3m)	Avg. Output Power	Total Peak Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT			
			CH 0	CH 1	(dBm)	(mW)	(4.2.)							
3	2422	MCS8	15.81	14.22	18.95	78.60	5.41	24.37	4W=	36	dBm	PASS		
6	2437	MCS8	15.82	14.14	18.93	78.12	5.41	24.34	4W=	36	dBm	PASS		
9	2452	MCS8	15.78	14.21	18.93	78.21	5.41	24.34	4W=	36	dBm	PASS		
10	2457	MCS8	13.34	12.83	16.96	40.76	5.41	22.38	4W=	36	dBm	PASS		
11	2462	MCS8	8.23	7.76	11.87	12.62	5.41	17.28	4W=	36	dBm	PASS		

802.1	802.11n_VHT20M MIMO												
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Avg. Output Power	Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT		
			CH 0	CH 1	(dBm)	(mW)	(uDi)						
1	2412	MCS8	15.52	15.77	18.91	77.83	5.41	24.32	4W=	36	dBm	PASS	
6	2437	MCS8	15.33	15.58	18.72	74.50	5.41	24.13	4W=	36	dBm	PASS	
11	2462	MCS8	15.46	15.75	18.87	77.13	5.41	24.28	4W=	36	dBm	PASS	
12	2467	MCS8	13.26	12.76	16.28	40.06	5.41	21.69	4W=	36	dBm	PASS	
13	2472	MCS8	4.14	3.95	7.31	5.08	5.41	12.72	4W= 36 dBm		dBm	PASS	

802.1	802.11n_VHT40M MIMO													
СН	Freq. (MHz)	Data Rate	Pov	Output wer Bm)	Avg. Output Power	Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT			
			CH 0	CH 1	(dBm)	(mW)	(uDi)							
3	2422	MCS8	15.63	14.06	18.78	75.55	5.41	24.19	4W=	36	dBm	PASS		
6	2437	MCS8	15.65	13.99	18.77	75.26	5.41	24.18	4W=	36	dBm	PASS		
9	2452	MCS8	15.62	14.03	18.76	75.24	5.41	24.18	4W=	36	dBm	PASS		
10	2457	MCS8	13.24	12.68	16.84	39.62	5.41	22.25	4W=	36	dBm	PASS		
11	2462	MCS8	7.99	7.75	11.74	12.25	5.41	17.15	4W=	36	dBm	PASS		

^{*} Note: EIRP = Average Power + Gain

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8.6 Some channels have reduced power and were tested at the reduced power

802.11	Channel list	Power value (dBm)
~	Channel 12	15
9	Channel 13	9
» UT20	Channel 12	13.5
n_HT20	Channel 13	4.5
n UT40	Channel 10	14
n_HT40	Channel 11	9

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9 6DB & 99% BANDWIDTH MEASUREMENT

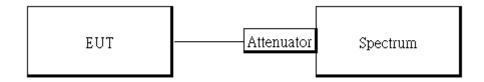
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site											
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018						
Coaxial Cable 30cm	WOKEN	00100A1F1 A195C	RF01	12/24/2017	12/23/2018						
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018						
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018						
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018						

9.3 Test Set-up



9.4 Measurement Procedure

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

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9.5 Measurement Result

6dB Bandwidth

802.11b CH0

802.11b CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8102	> 500	PASS	2412	8100	> 500	PASS
2437	8070	> 500	PASS	2437	8082	> 500	PASS
2462	8090	> 500	PASS	2462	8094	> 500	PASS
2467	8087	> 500	PASS	2467	8080	> 500	PASS
2472	8071	> 500	PASS	2472	8074	> 500	PASS

802.11g CH0

802.11g CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16270	> 500	PASS	2412	16090	> 500	PASS
2437	15750	> 500	PASS	2437	15710	> 500	PASS
2462	16030	> 500	PASS	2462	16050	> 500	PASS
2467	15950	> 500	PASS	2467	15970	> 500	PASS
2472	15750	> 500	PASS	2472	15750	> 500	PASS

802.11_n_HT20 CH0

802.11_n_HT20 CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340	> 500	PASS	2412	16570	> 500	PASS
2437	15920	> 500	PASS	2437	16290	> 500	PASS
2462	16040	> 500	PASS	2462	15730	> 500	PASS
2467	16570	> 500	PASS	2467	16950	> 500	PASS
2472	15750	> 500	PASS	2472	16930	> 500	PASS

802.11_n_HT40 CH0

802.11_n_HT40 CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35190	> 500	PASS	2422	35190	> 500	PASS
2437	35180	> 500	PASS	2437	35190	> 500	PASS
2452	35380	> 500	PASS	2452	35370	> 500	PASS
2457	35370	> 500	PASS	2457	35470	> 500	PASS
2462	35480	> 500	PASS	2462	35480	> 500	PASS

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99% Bandwidth

802.11b CH	10	802.11b CH1		
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)	
2412	13.220	2412	13.261	
2437	13.071	2437	13.063	
2462	13.048	2462	13.069	
2467	13.096	2467	13.080	
2472	13.054	2472	13.043	

802.11g CH	10	802.11g CH	l1	
Freq.	99% BW	Freq.	99% BW	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	16.609	2412	16.578	
2437	16.490	2437	16.515	
2462	16.584	2462	16.548	
2467	16.495	2467	16.497	
2472	16.480	2472	16.488	
		802.11n_HT20M CH1		
802.11n_H	Г20M CH0	802.11n_H	Γ20M CH1	
802.11n_H ⁻ Freq.	720M CH0 99% BW	802.11n_H ⁻ Freq.	720M CH1 99% BW	
Freq.	99% BW	Freq.	99% BW	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)	
Freq. (MHz)	99% BW (MHz) 17.681	Freq. (MHz)	99% BW (MHz) 17.680	
Freq. (MHz) 2412 2437	99% BW (MHz) 17.681 17.616	Freq. (MHz) 2412 2437	99% BW (MHz) 17.680 17.630	

802.11n_H	Г40М СН0	802.11n_HT40M CH1		
Freq.	99% BW	Freq.	99% BW	
(MHz)	(MHz)	(MHz)	(MHz)	
2422	36.226	2422	36.242	
2437	36.115	2437	36.128	
2452	36.141	2452	36.141	
2457	36.248	2457	36.068	
2462	36.197	2462	36.105	

^{*}Refer to next page for plots

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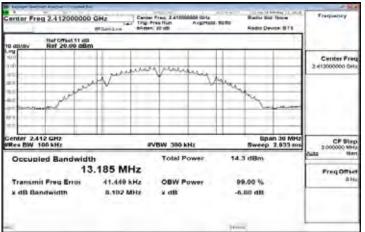
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802.11b (CH0)

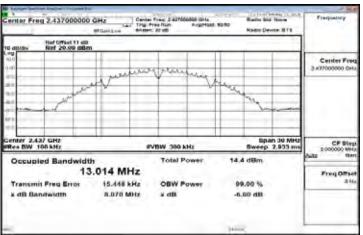
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High 2467MHz



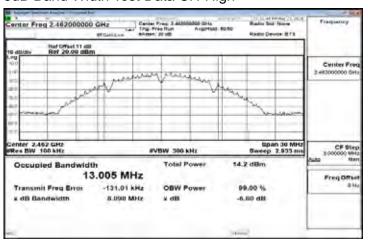
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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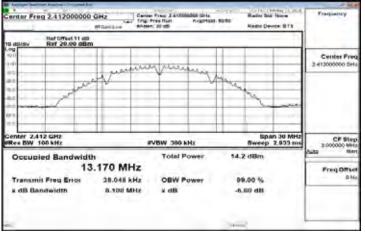
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802.11b (CH1)

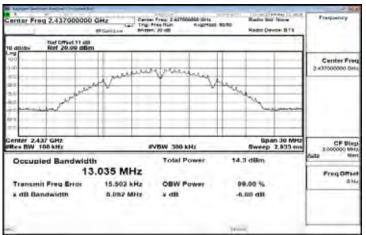
6dB Band Width Test Data CH-Low



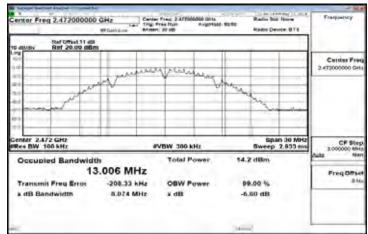
6dB Band Width Test Data CH-High 2467MHz



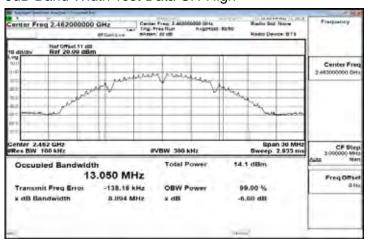
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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802.11g (CH0)

6dB Band Width Test Data CH-Low



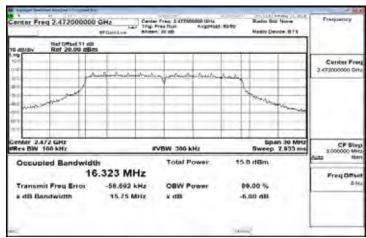
6dB Band Width Test Data CH-High 2467MHz



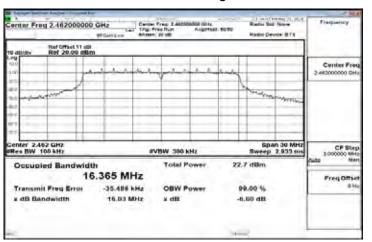
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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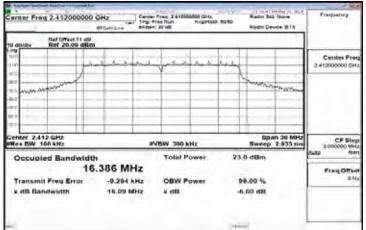
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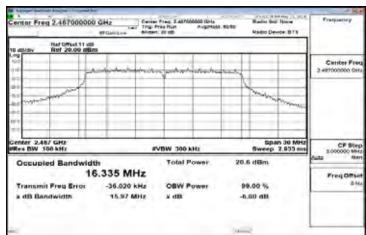


802.11g (CH1)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High 2467MHz



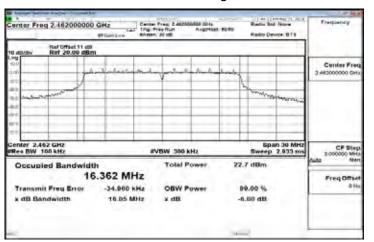
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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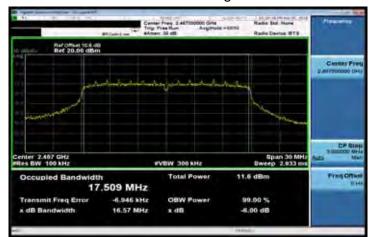
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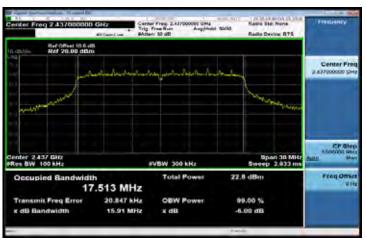
802.11n_20M (CH0) 6dB Band Width Test Data CH-Low

Center Fre #VBW 300 kHz 17.548 MHz 16.561 kHz 99.00 % 16.34 MHz

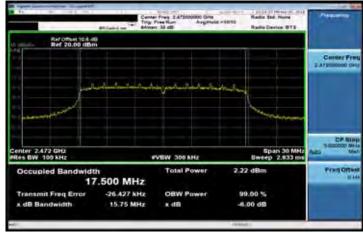
6dB Band Width Test Data CH-High 2467MHz



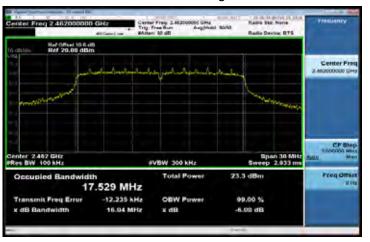
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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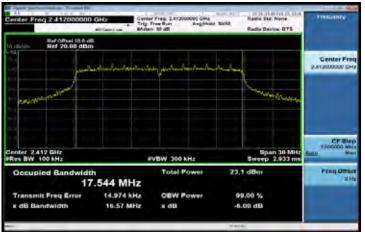
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802.11n_20M (CH1)

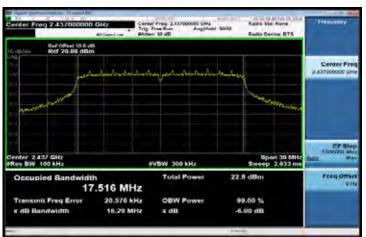
6dB Band Width Test Data CH-Low



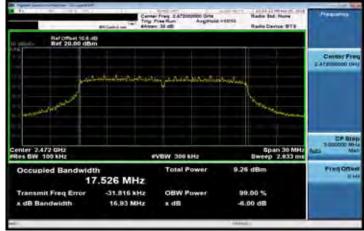
6dB Band Width Test Data CH-High 2467MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



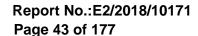
6dB Band Width Test Data CH-High



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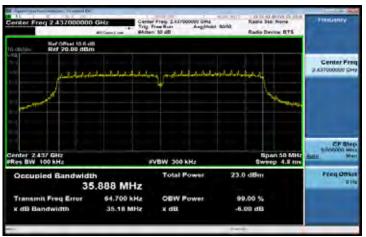
802.11n_40M (CH0) 6dB Band Width Test Data CH-Low

Ref Offset 10.6 dB Ref 20.00 dBm Center Fre #VBW 300 kHz 36.015 MHz 75.195 kHz 99.00 % 35.19 MHz

6dB Band Width Test Data CH-High 2457MHz



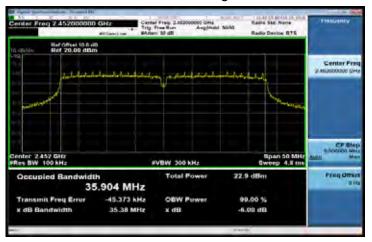
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2462MHz



6dB Band Width Test Data CH-High

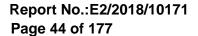


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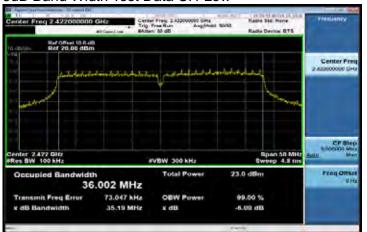
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802.11n_40M (CH1)

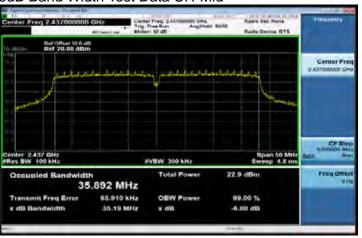
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High 2457MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2462MHz



6dB Band Width Test Data CH-High



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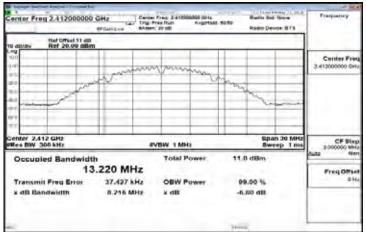
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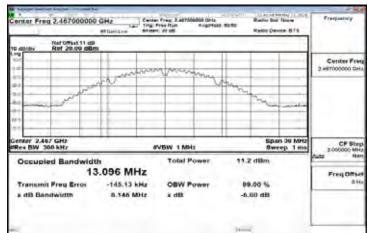


802.11b (CH0)

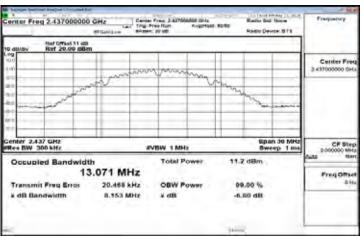
99% Band Width Test Data CH-Low



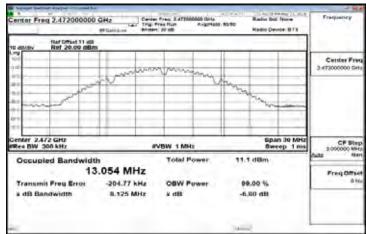
99% Band Width Test Data CH-High 2467MHz



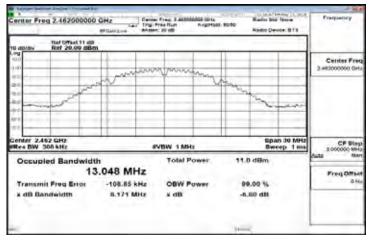
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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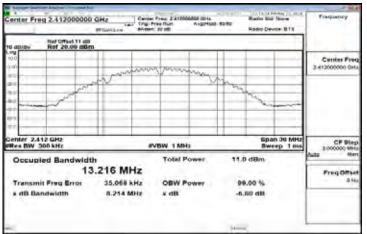
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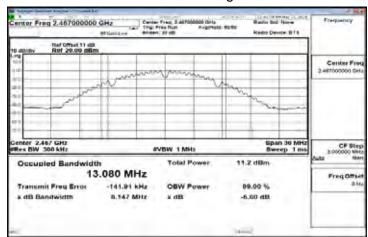


802.11b (CH1)

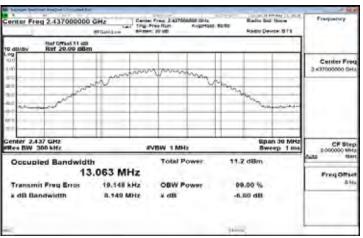
99% Band Width Test Data CH-Low



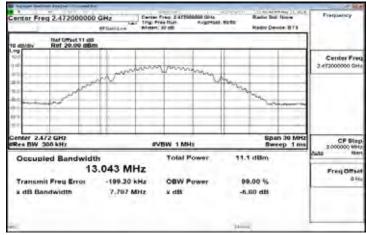
99% Band Width Test Data CH-High 2467MHz



99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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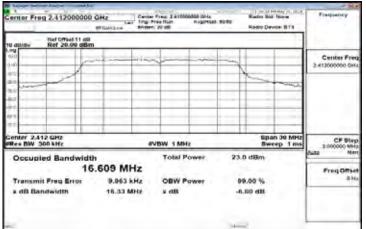
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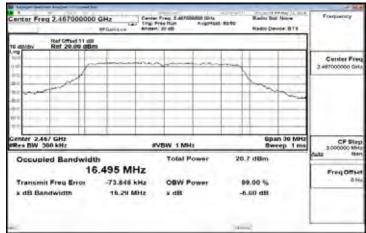


802.11g (CH0)

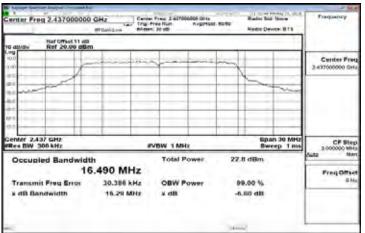
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2467MHz



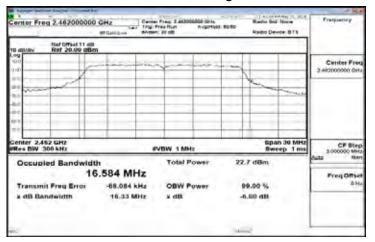
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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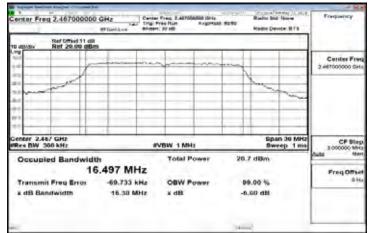


802.11g (CH1)

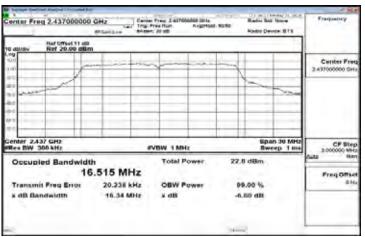
99% Band Width Test Data CH-Low



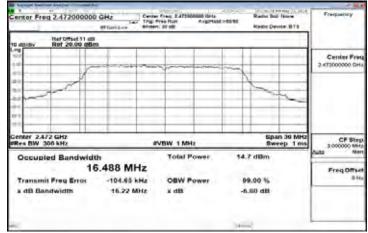
99% Band Width Test Data CH-High 2467MHz



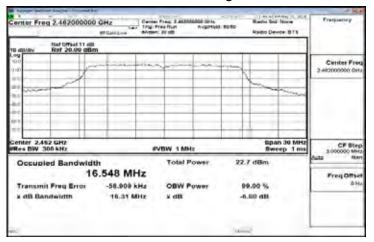
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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802.11n_20M (CH0)

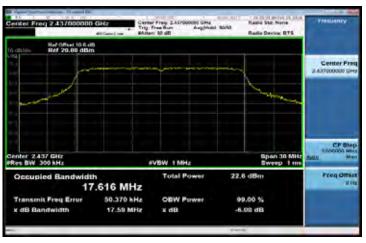
99% Band Width Test Data CH-Low



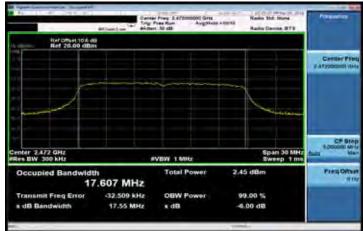
99% Band Width Test Data CH-High 2467MHz



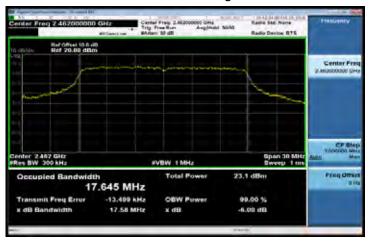
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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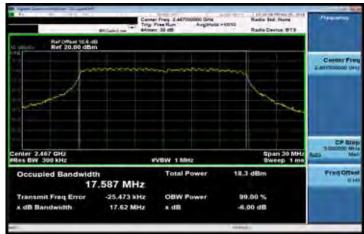


802.11n_20M (CH1)

99% Band Width Test Data CH-Low



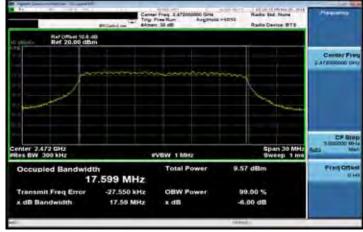
99% Band Width Test Data CH-High 2467MHz



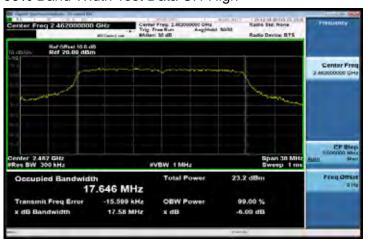
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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802.11n_40M (CH0) 99% Band Width Test Data CH-Low



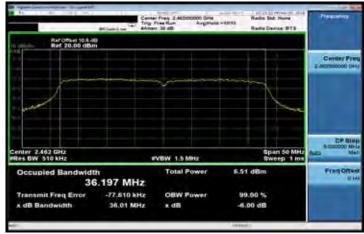
99% Band Width Test Data CH-High 2457MHz



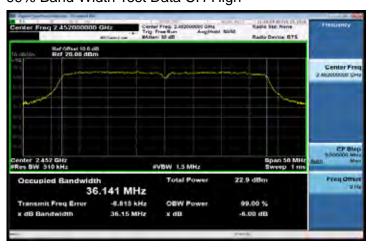
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2462MHz



99% Band Width Test Data CH-High



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802.11n_40M (CH1)

99% Band Width Test Data CH-Low



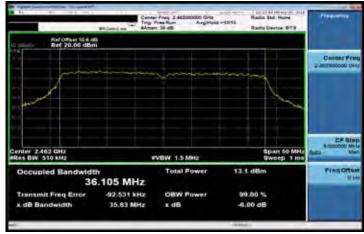
99% Band Width Test Data CH-High 2457MHz



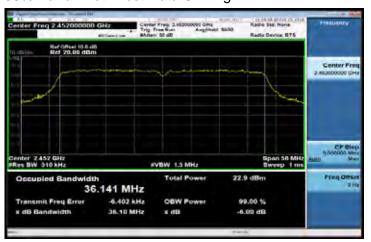
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2462MHz



99% Band Width Test Data CH-High



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SGS Taiwan Ltd.



CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

Standard Applicable 10.1

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.

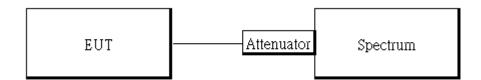
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

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(4), 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.

Measurement Equipment Used 10.2

Conducted Emission Test Site								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018			
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/24/2017	12/23/2018			
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018			
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018			
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018			

10.3 **Test SET-UP**

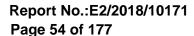


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10.4 Measurement Procedure

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.
- Set the span to 1.5 times the DTS channel bandwidth.
- Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9.Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

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

Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

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7. 802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application for the test of PSD at MIMO mode, the highest emission of worst case is employing.

10.5 **Measurement Result**

Reference Level of Limit 802.11b mode		Reference Level of Limit 802.11g mode			
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	2.17	-17.83	2412	8.48	-11.52
2437	2.579	-17.42	2437	8.43	-11.57
2462	1.90	-18.10	2462	8.46	-11.54
2467	1.92	-18.08	2467	6.04	-13.96
2472	2.28	-17.72	2472	0.53	-19.47
Reference Level of Limit 802.11n20 mode		eference Level of Limit 802.11n40 MODE			
Referen	ice Level d	of Limit 802.11n20 mode	eferenc	e Level of	Limit 802.11n40 MODE
Referen Freq.	ce Level o	Feference Level of Limit	eference Freq.	e Level of PSD	Limit 802.11n40 MODE Reference Level of Limit
H	1				
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
Freq. (MHz) 2412	PSD (dBm) 8.59	Reference Level of Limit (dBm) -11.41	Freq. (MHz) 2422	PSD (dBm) 6.49	Reference Level of Limit (dBm) -13.51
Freq. (MHz) 2412 2437	PSD (dBm) 8.59 8.41	Reference Level of Limit (dBm) -11.41 -11.59	Freq. (MHz) 2422 2437	PSD (dBm) 6.49 5.59	Reference Level of Limit (dBm) -13.51 -14.41

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802.11b Band Edge Limit Test Data CH-Low

802.11b Band Edge Limit Test Data CH-High 2467MHz



802.11b Band Edge Limit Test Data CH-Mid



802.11b Band Edge Limit Test Data CH-High 2472Mhz



802.11b Band Edge Limit Test Data CH-High



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802.11g Band Edge Limit Test Data CH-Low

802.11g Band Edge Limit Test Data CH-High 2467MHz



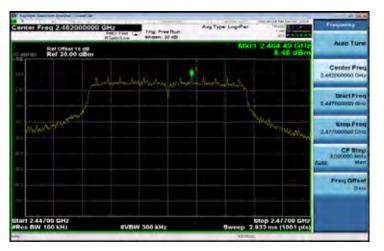
802.11g Band Edge Limit Test Data CH-Mid



802.11g Band Edge Limit Test Data CH-High 2472MHz



802.11g Band Edge Limit Test Data CH-High



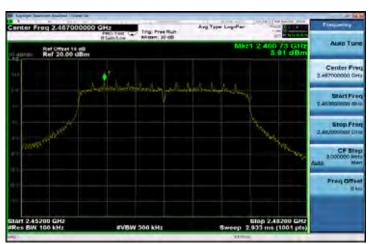
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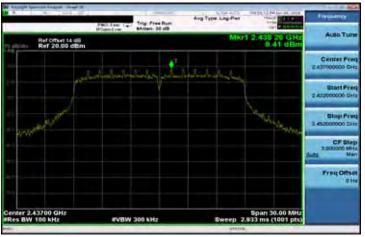


802.11n_HT20 Band Edge Limit Test Data CH-Low

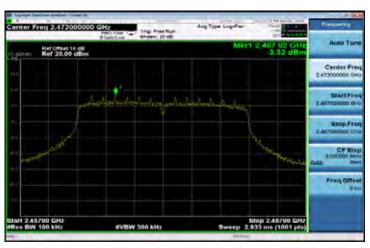
802.11n_HT20 Band Edge Limit Test Data CH-High 2467MHz



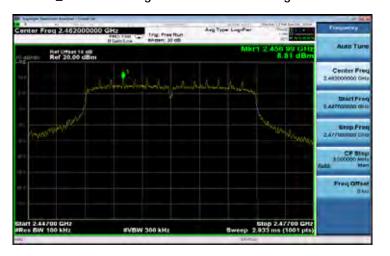
802.11n_HT20 Band Edge Limit Test Data CH-Mid



802.11n_HT20 Band Edge Limit Test Data CH-High 2472MHz



802.11n_HT20 Band Edge Limit Test Data CH-High



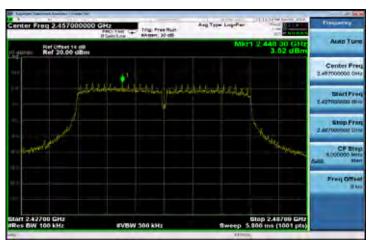
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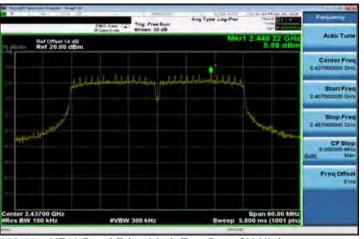


802.11n_HT40 Band Edge Limit Test Data CH-Low

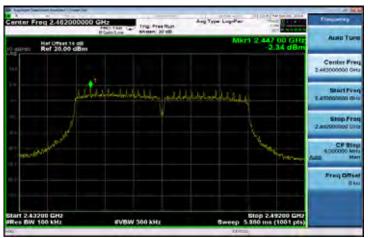
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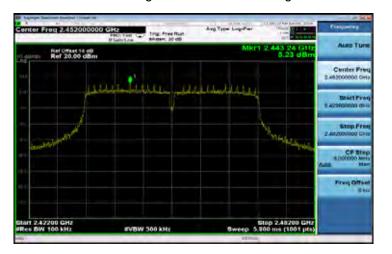
802.11n_HT40 Band Edge Limit Test Data CH-Mid



802.11n_HT40 Band Edge Limit Test Data CH-High 2462MHz



802.11n_HT40 Band Edge Limit Test Data CH-High



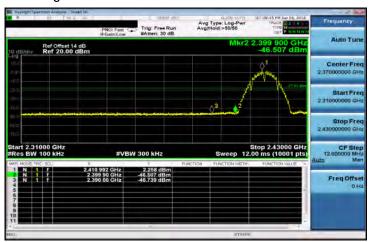
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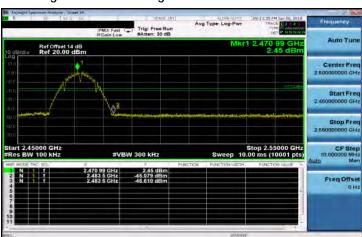


802.11b

Band Edge Test Data CH-Low



Band Edge Test Data CH-High 2472MHz



Band Edge Test Data CH-High

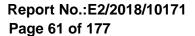


Band Edge Test Data CH-High 2467MHz



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802.11g

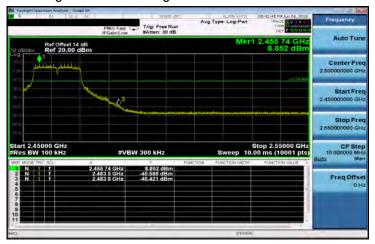
Band Edge Test Data CH-Low



Band Edge Test Data CH-High 2472MHz



Band Edge Test Data CH-High



Band Edge Test Data CH-High 2467MHz



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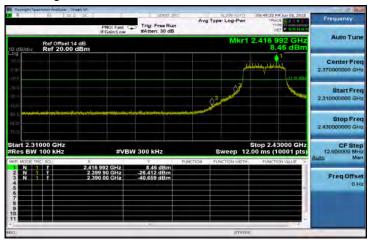
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802.11n_HT20

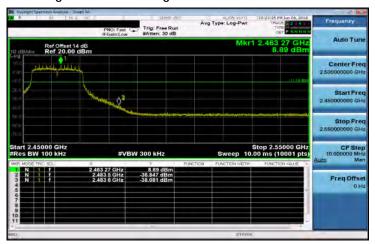
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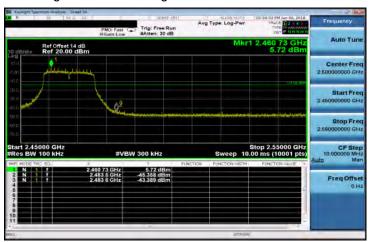
Band Edge Test Data CH-High 2472 MHz



Band Edge Test Data CH-High

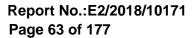


Band Edge Test Data CH-High 2467MHz



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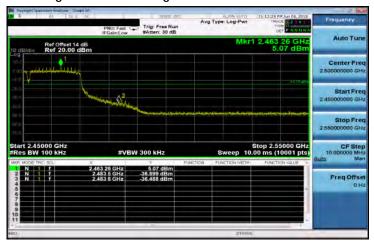


802.11n_HT40

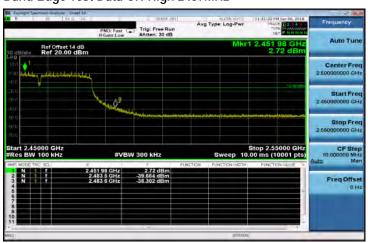
Band Edge Test Data CH-Low



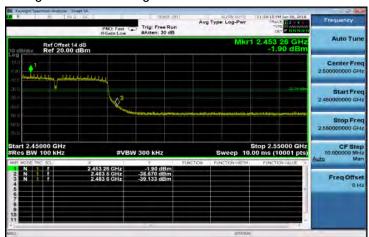
Band Edge Test Data CH-High



Band Edge Test Data CH-High 2457MHz

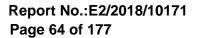


Band Edge Test Data CH-High 2462MHz



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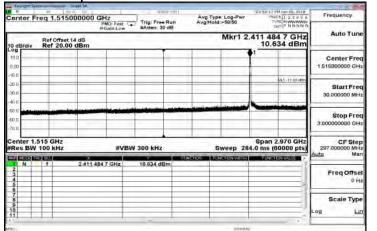
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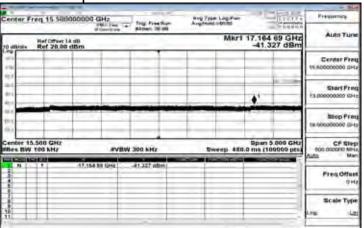


802.11b

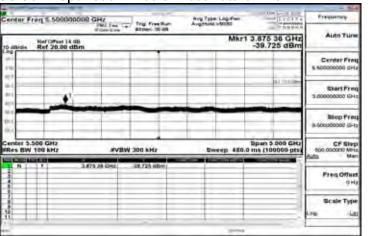
30M-3GHz Spurious Emission Test Data CH-Low



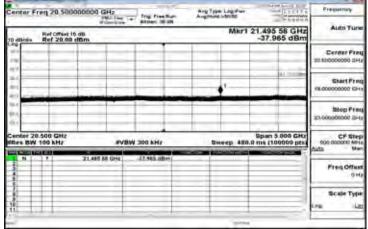
13G-18GHz Spurious Emission Test Data CH-Low



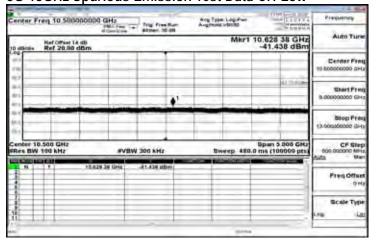
3G-8GHz Spurious Emission Test Data CH-Low



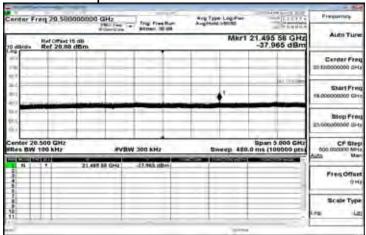
18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low

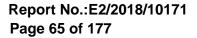


23G-26.5GHz Spurious Emission Test Data CH-Low



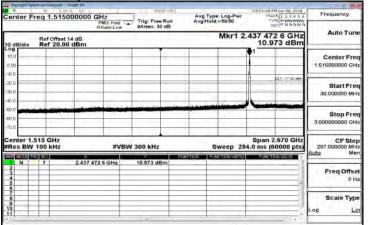
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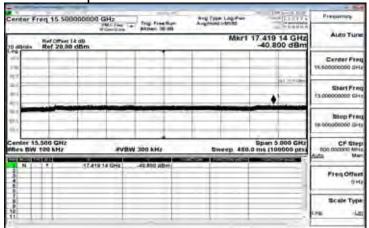




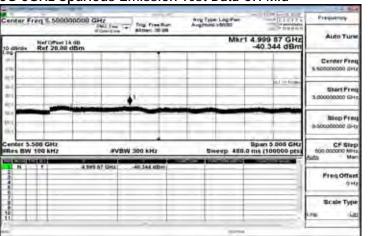
30M-3GHz Spurious Emission Test Data CH-Mid



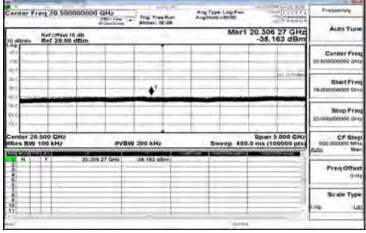
13G-18GHz Spurious Emission Test Data CH-Mid



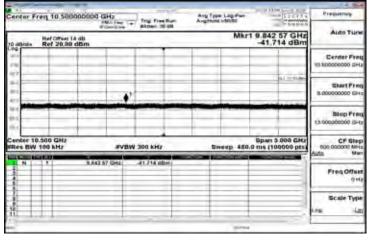
3G-8GHz Spurious Emission Test Data CH-Mid



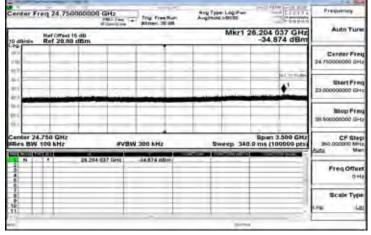
18G-23GHz Spurious Emission Test Data CH-Mid



8G-13GHz Spurious Emission Test Data CH-Mid



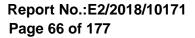
23G-26.5GHz Spurious Emission Test Data CH-Mid



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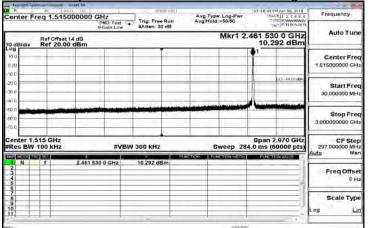
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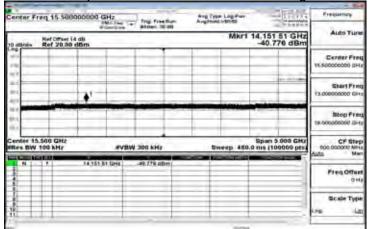




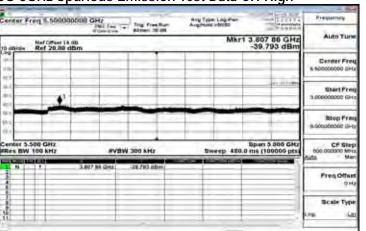
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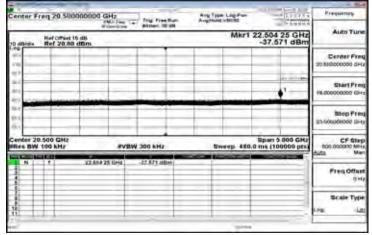
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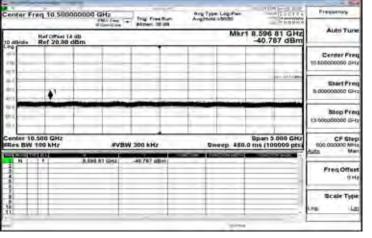
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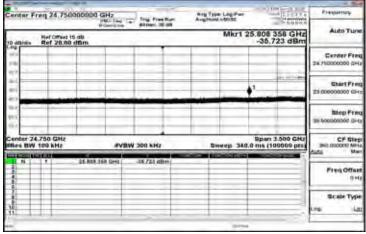
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8G-13GHz Spurious Emission Test Data CH-High



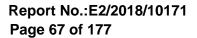
23G-26.5GHz Spurious Emission Test Data CH-High



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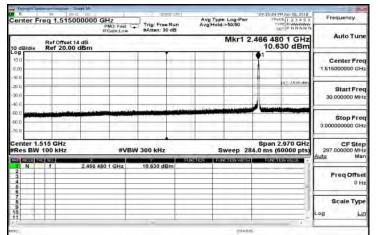
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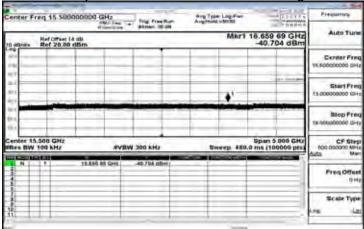




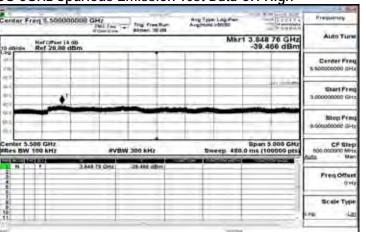
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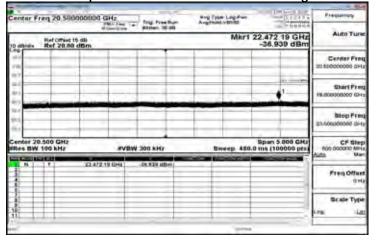
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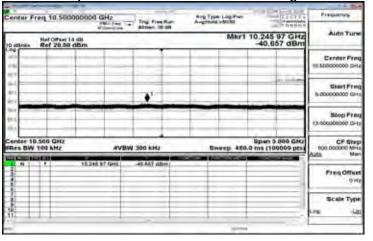
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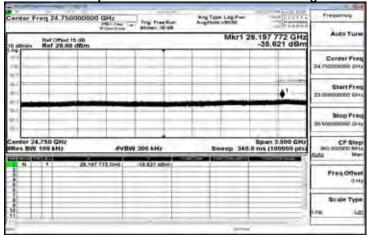
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8G-13GHz Spurious Emission Test Data CH-High

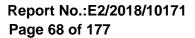


23G-26.5GHz Spurious Emission Test Data CH-High



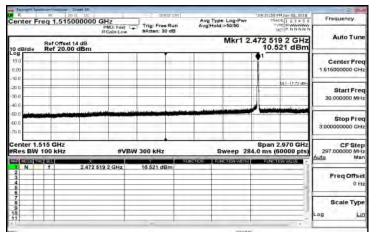
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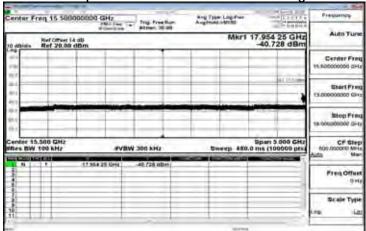




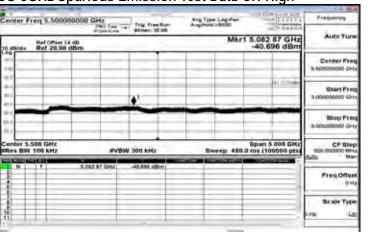
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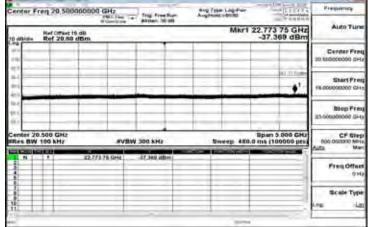
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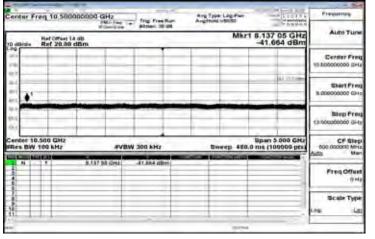
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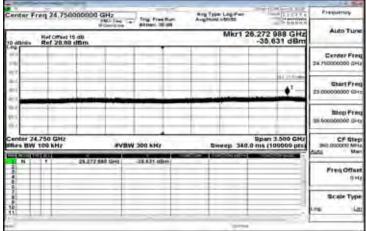
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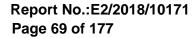


23G-26.5GHz Spurious Emission Test Data CH-High



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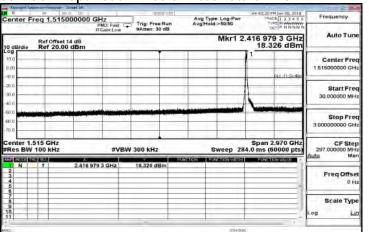
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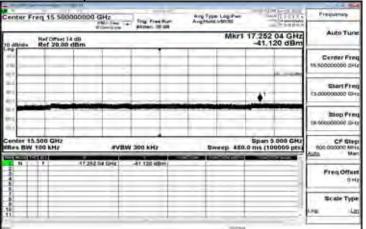


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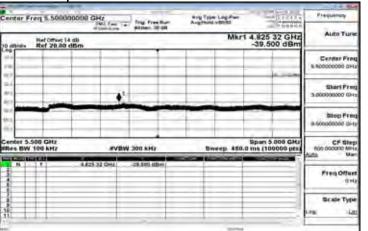
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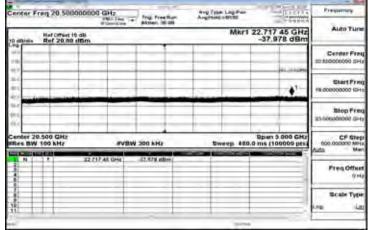
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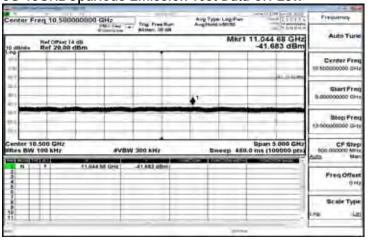
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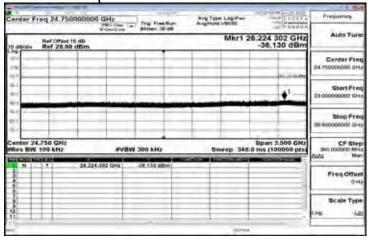
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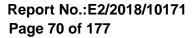


23G-26.5GHz Spurious Emission Test Data CH-Low



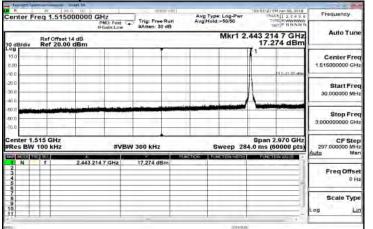
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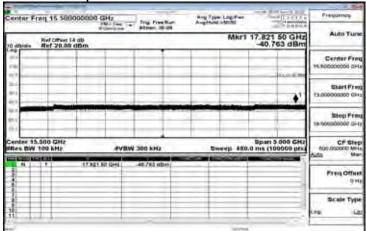




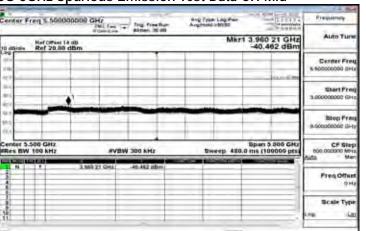
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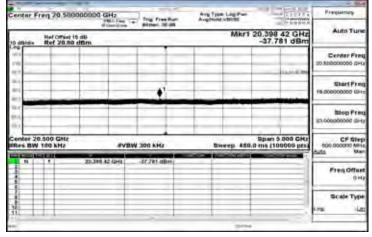
13G-18GHz Spurious Emission Test Data CH-Mid



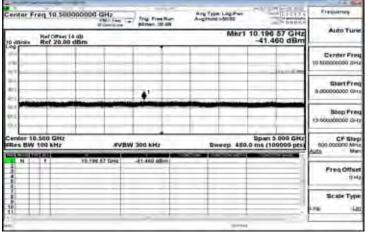
3G-8GHz Spurious Emission Test Data CH-Mid



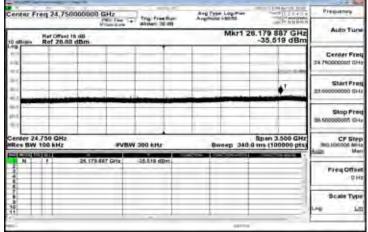
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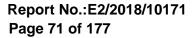
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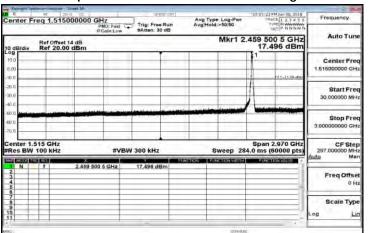
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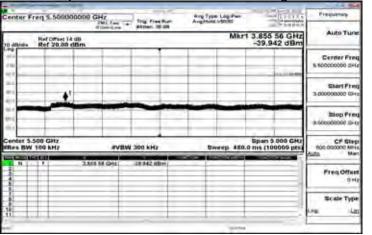
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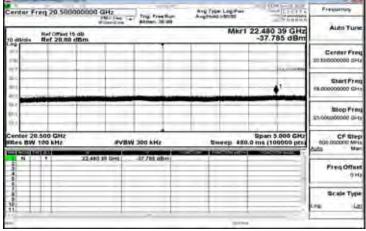
13G-18GHz Spurious Emission Test Data CH-High



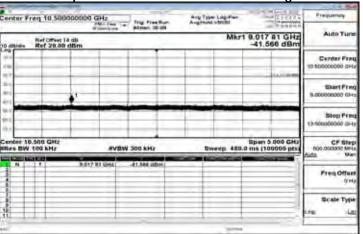
3G-8GHz Spurious Emission Test Data CH-High



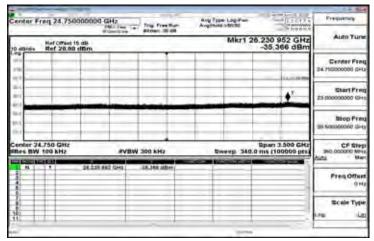
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8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

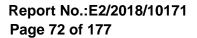


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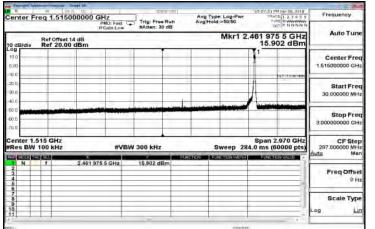
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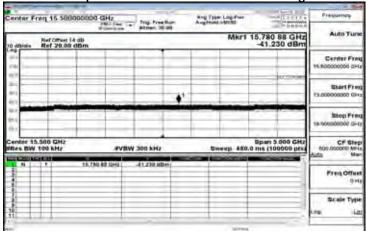




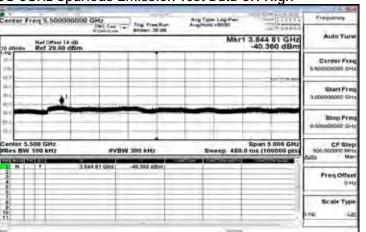
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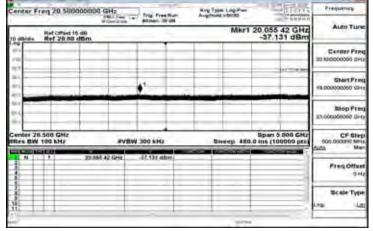
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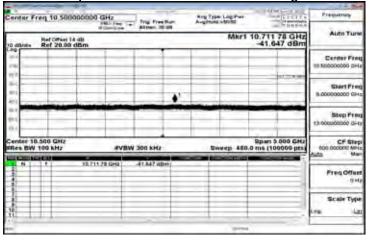
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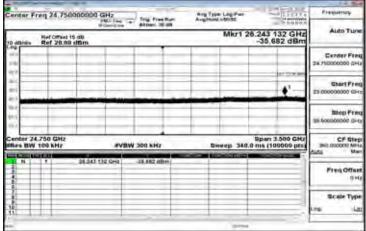
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8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

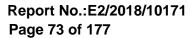


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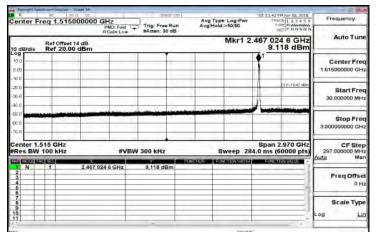
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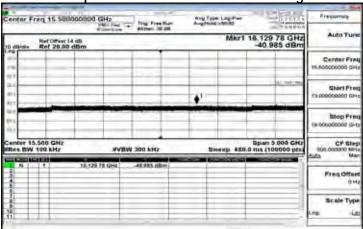




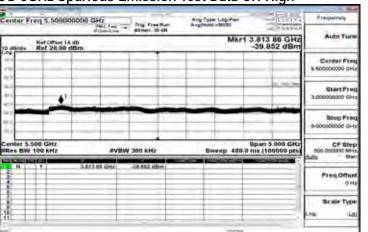
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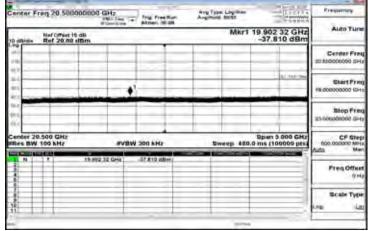
13G-18GHz Spurious Emission Test Data CH-High



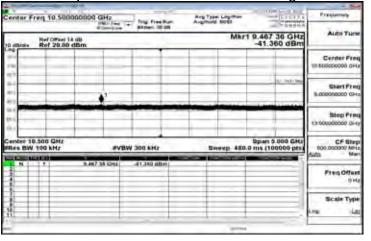
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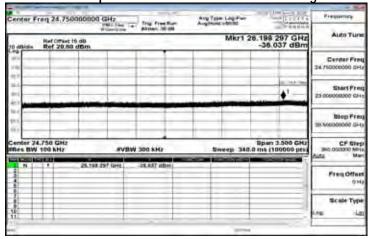
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8G-13GHz Spurious Emission Test Data CH-High



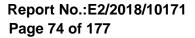
23G-26.5GHz Spurious Emission Test Data CH-High



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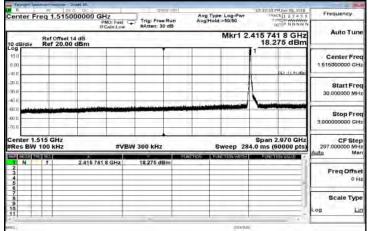
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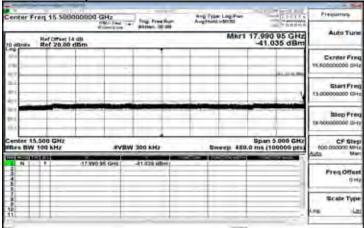


802.11n HT20

30M-3GHz Spurious Emission Test Data CH-Low



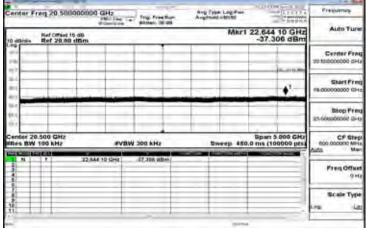
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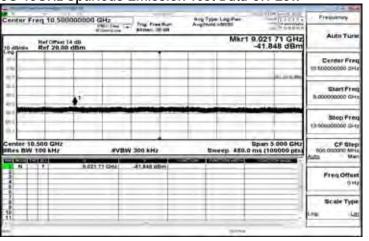
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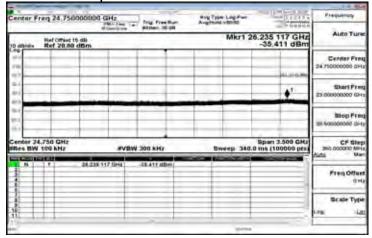
18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low



23G-26.5GHz Spurious Emission Test Data CH-Low



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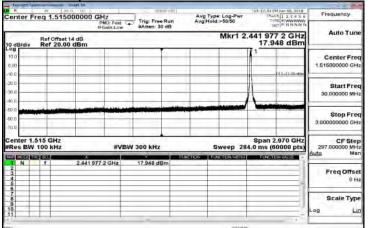
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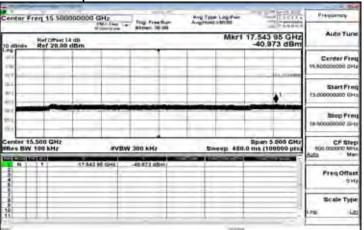








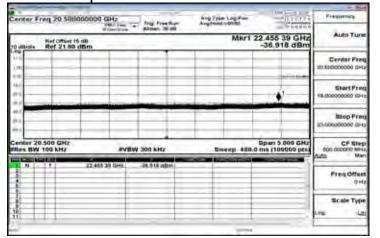
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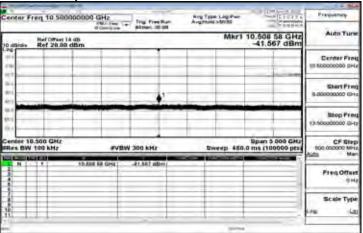
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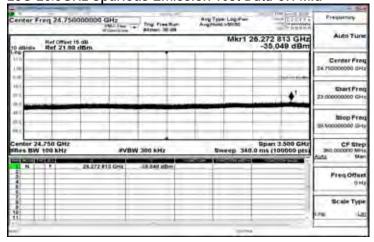
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8G-13GHz Spurious Emission Test Data CH-Mid



23G-26.5GHz Spurious Emission Test Data CH-Mid

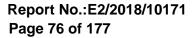


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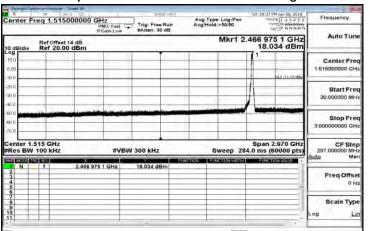
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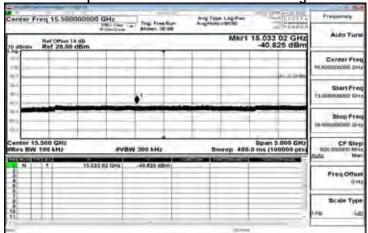




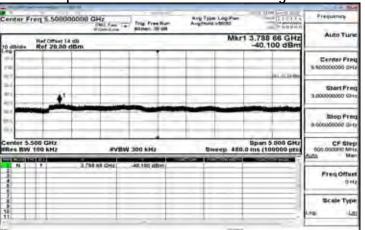
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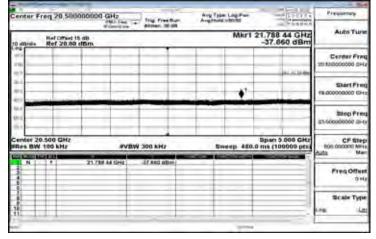
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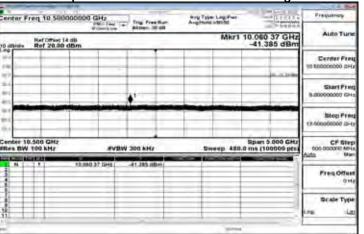
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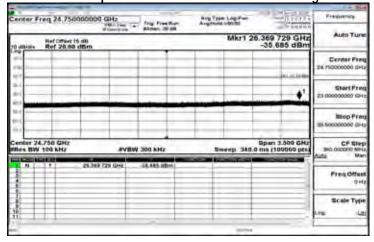
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8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

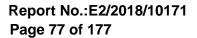


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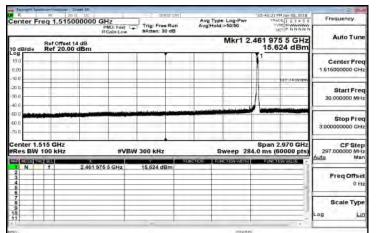
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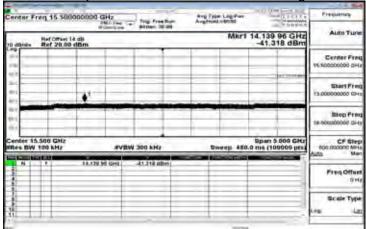




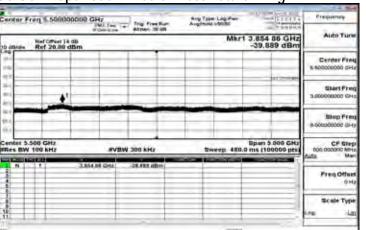
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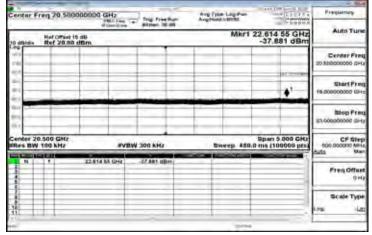
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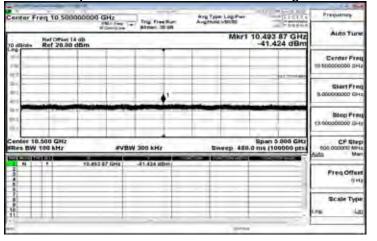
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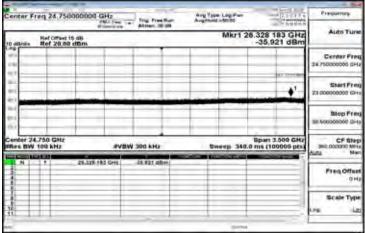
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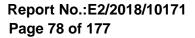
23G-26.5GHz Spurious Emission Test Data CH-High



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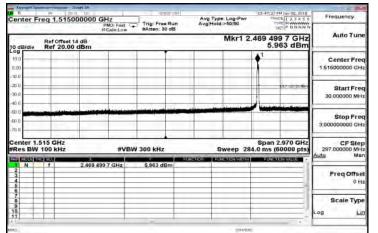
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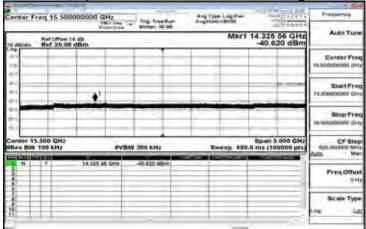




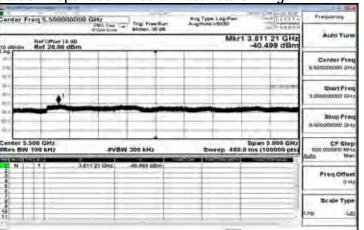
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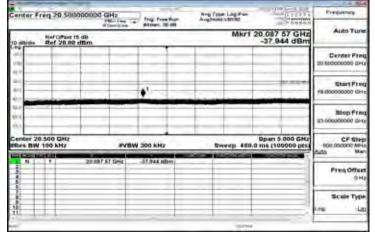
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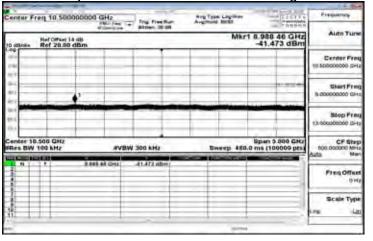
3G-8GHz Spurious Emission Test Data CH-High



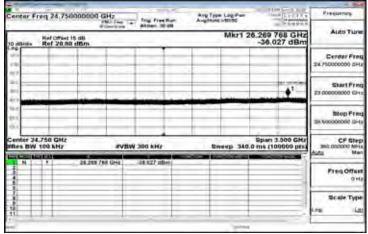
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



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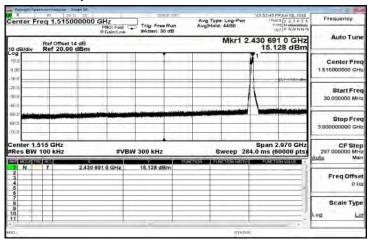
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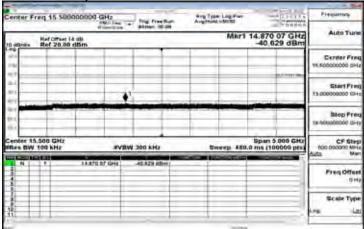


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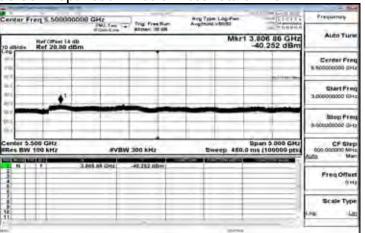
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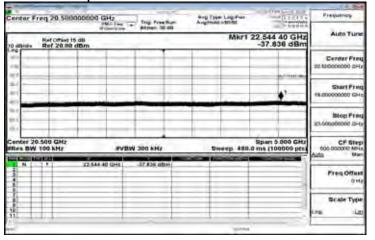
13G-18GHz Spurious Emission Test Data CH-Low



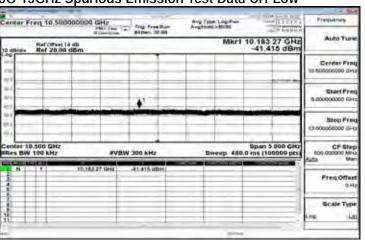
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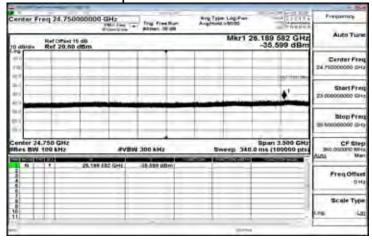
18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low



23G-26.5GHz Spurious Emission Test Data CH-Low



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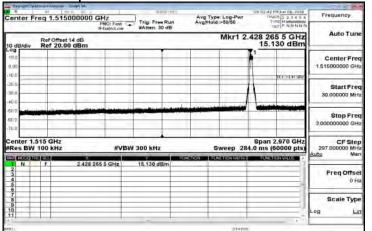
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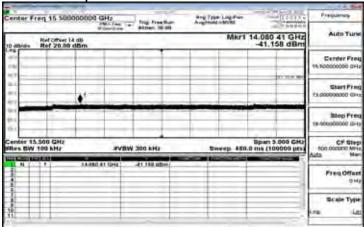




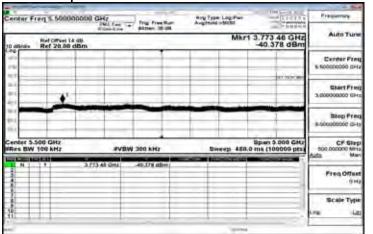
30M-3GHz Spurious Emission Test Data CH-Mid



13G-18GHz Spurious Emission Test Data CH-Mid



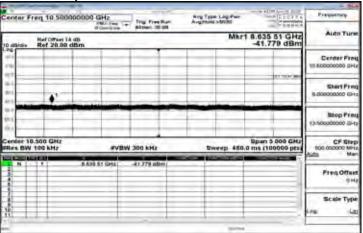
3G-8GHz Spurious Emission Test Data CH-Mid



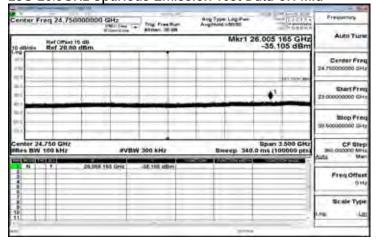
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8G-13GHz Spurious Emission Test Data CH-Mid



23G-26.5GHz Spurious Emission Test Data CH-Mid

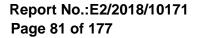


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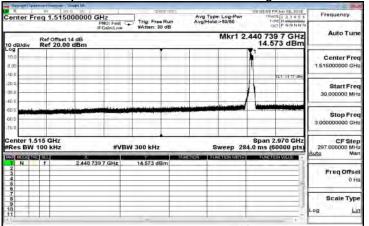
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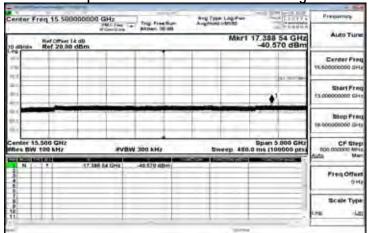




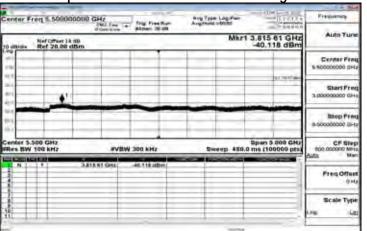
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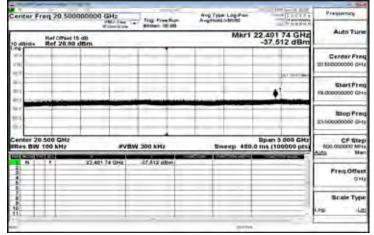
13G-18GHz Spurious Emission Test Data CH-High



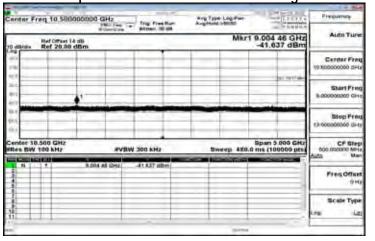
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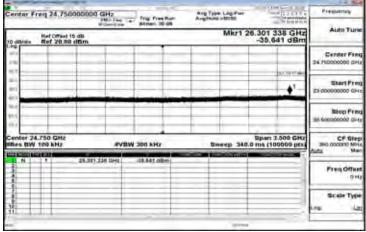
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



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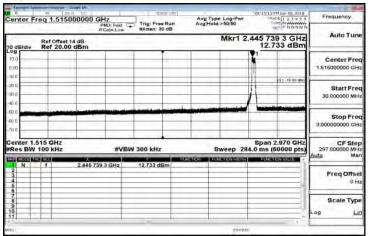
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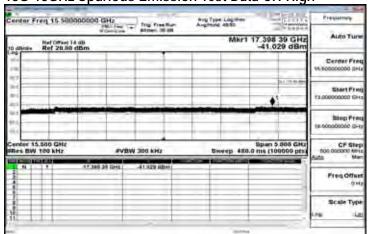




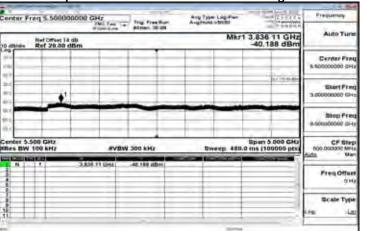
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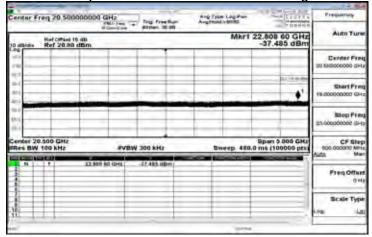
13G-18GHz Spurious Emission Test Data CH-High



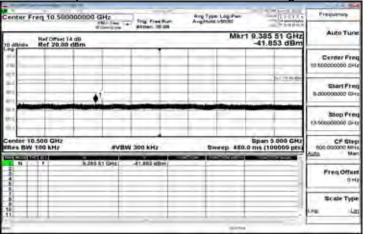
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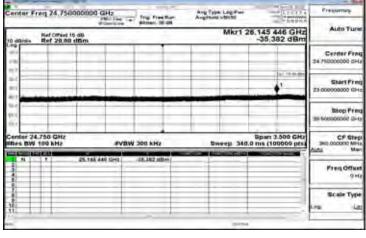
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8G-13GHz Spurious Emission Test Data CH-High



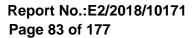
23G-26.5GHz Spurious Emission Test Data CH-High



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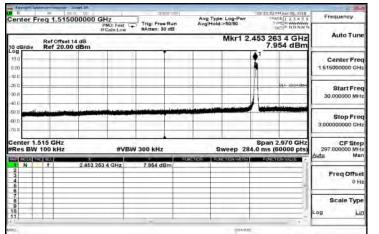
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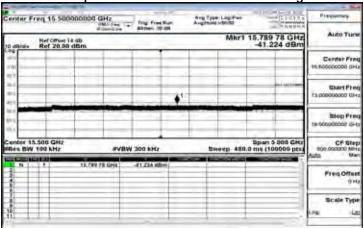




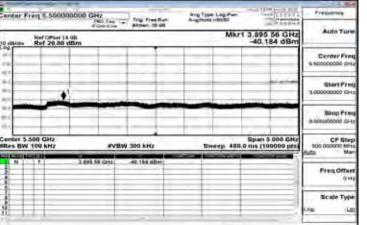
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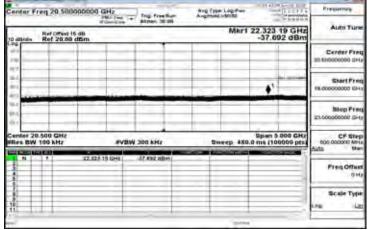
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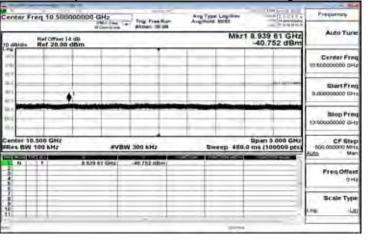
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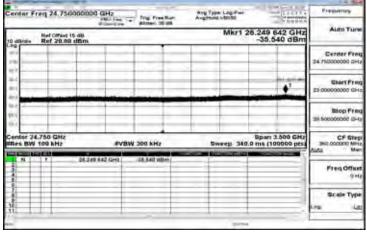
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 & RSS-Gen §8.8, 8.9 limit as below.

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.

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

Note:

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

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11.2 Measurement Equipment Used:

	966 Chamber										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018						
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2017	12/22/2018						
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018						
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018						
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018						
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018						
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018						
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018						
Pre Amplifier	R&S	SCU-26	100780	12/24/2017	12/23/2018						
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018						
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018						
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018						
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018						
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2018	03/01/2019						
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018						
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018						
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.						
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.						
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.						
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.						

966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2018	03/01/2019			
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2018	05/03/2019			

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

N.C.R refers to Not Calibrated Required.

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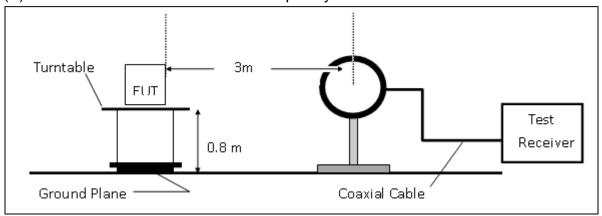
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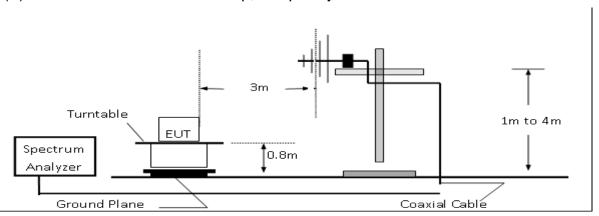


11.3 Test SET-UP

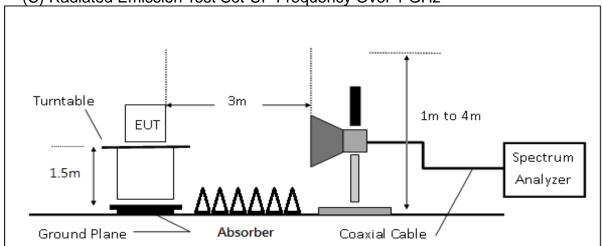
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



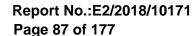
(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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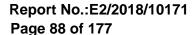
11.4 Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

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

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

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. "E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

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

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. And there is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

After Pre-scanned 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

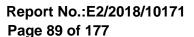
Note: WLAN/BT coexistence cases were investigated and there are no new emissions to report. Refer to next page spectrum analyzer data chart and tabular data sheets.

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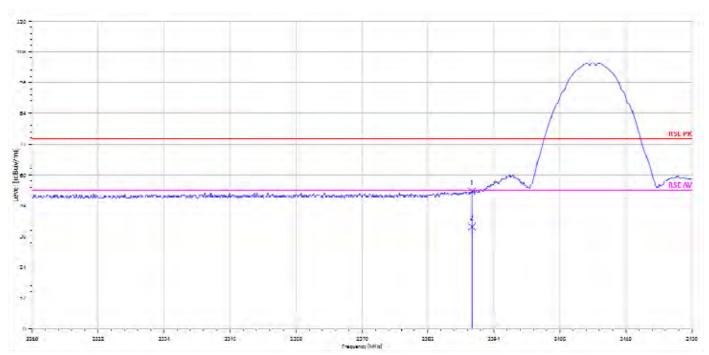


Radiated Band Edge Measurement Result (802.11b)

Operation Mode: 802.11b Test Date: 2018/6/7

Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical E2

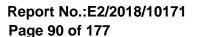


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
2390.00	E	Peak	60.35	-6.84	53.51	74	-20.49
2390.00	Е	Average	46.53	-6.84	39.69	54	-14.31

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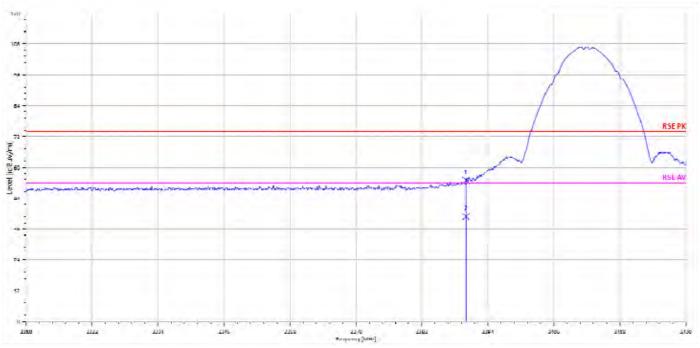
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

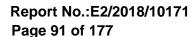


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB
2390.00	Е	Peak	61.72	-6.84	54.88	74	-19.12
2390.00	Е	Average	47.55	-6.84	40.71	54	-13.29

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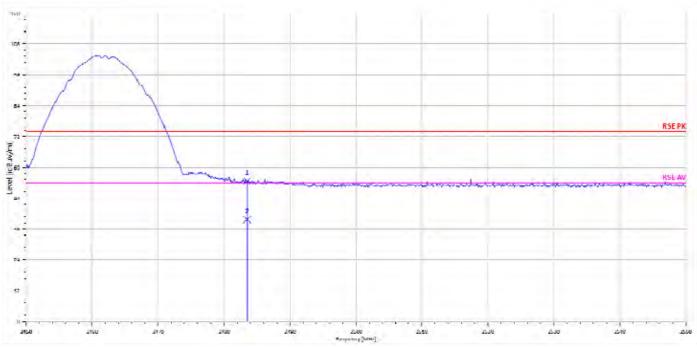
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

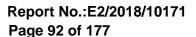


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	60.91	-6.38	54.52	74	-19.48
2483.50	Ε	Average	45.99	-6.38	39.60	54	-14.40

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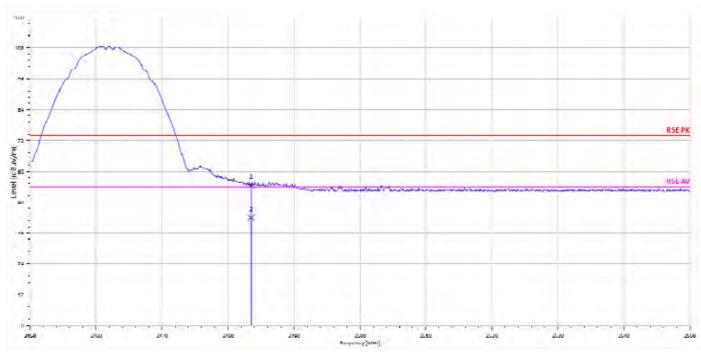
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2

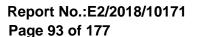


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	60.95	-6.38	54.56	74	-19.44
2483.50	E	Average	48.29	-6.38	41.91	54	-12.09

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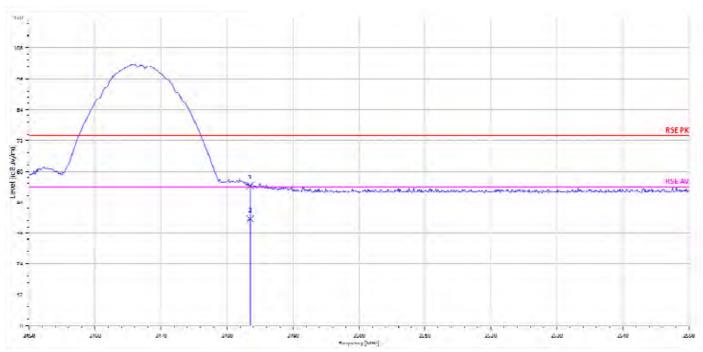
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Fundamental Frequency: 2467 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 12** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

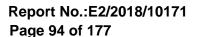


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	60.75	-6.38	54.36	74	-19.64
2483.50	Е	Average	47.82	-6.38	41.43	54	-12.57

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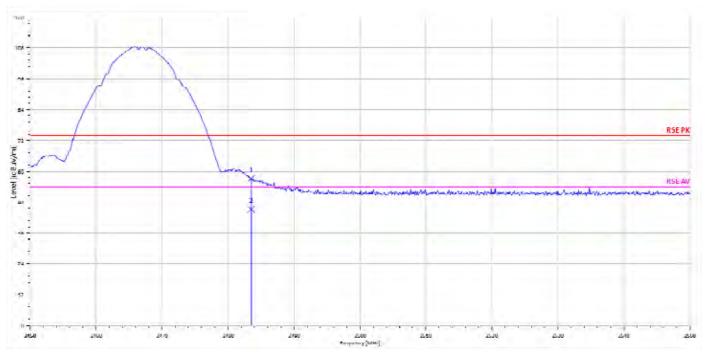
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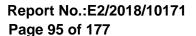
Fundamental Frequency: 2467 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 12** Test Engineer: Jerry Horizontal EUT Pol.: E2 Measurement Antenna Pol.:



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	63.50	-6.38	57.12	74	-16.88
2483.50	Е	Average	51.54	-6.38	45.15	54	-8.85

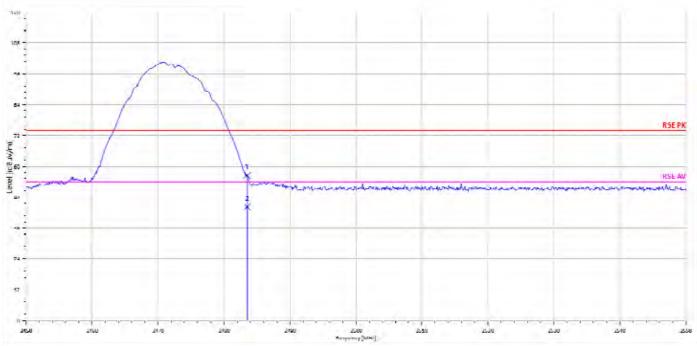
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Fundamental Frequency: 2472 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 13** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

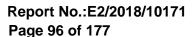


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	62.75	-6.38	56.37	74	-17.63
2483.50	Ε	Average	50.59	-6.38	44.20	54	-9.80

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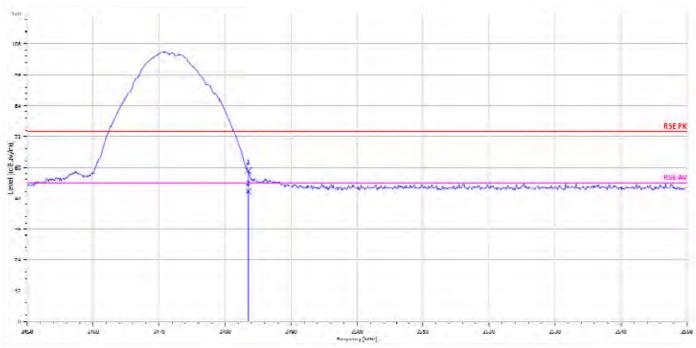
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Fundamental Frequency: 2472 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 13** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

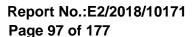


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	65.06	-6.38	58.68	74	-15.32
2483.50	Е	Average	56.95	-6.38	50.57	54	-3.43

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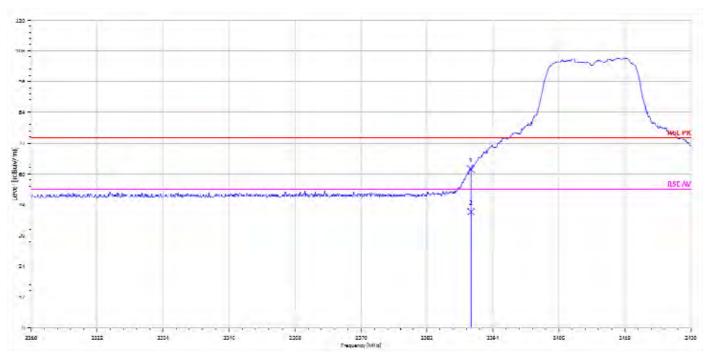


Radiated Band Edge Measurement Result (802.11g)

Operation Mode: Test Date: 2018/6/7 802.11g

Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical E2

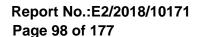


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	E	Peak	68.59	-6.84	61.75	74	-12.25
2390.00	E	Average	52.05	-6.84	45.21	54	-8.79

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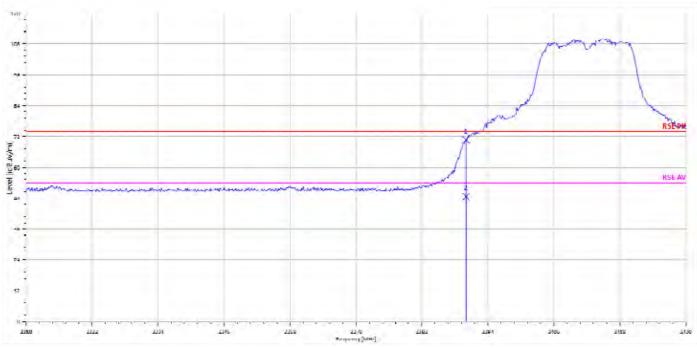
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

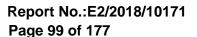


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2390.00	Е	Peak	77.50	-6.84	70.66	74	-3.34
2390.00	E	Average	55.38	-6.84	48.54	54	-5.46

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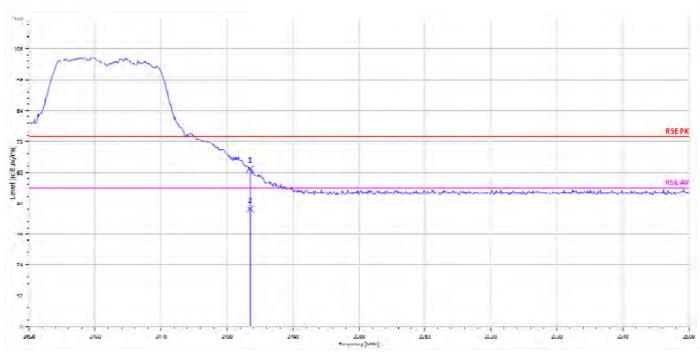
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

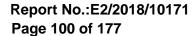


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	67.64	-6.38	61.26	74	-12.74
2483.50	Е	Average	52.03	-6.38	45.65	54	-8.35

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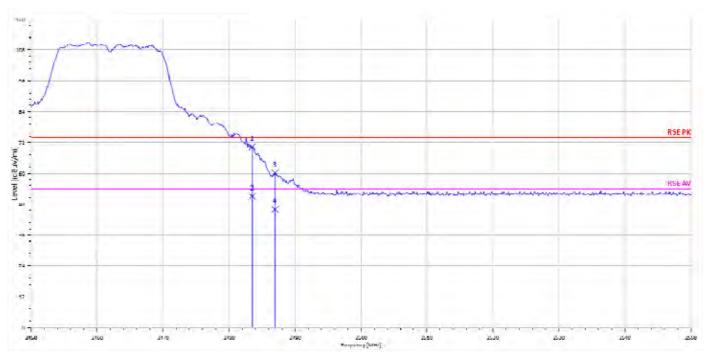
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 25deg_C/65RH Operation Band: BE CH High Test Engineer: Jerry

EUT Pol.: Measurement Antenna Pol. : Horizontal E2

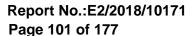


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	76.58	-6.38	70.20	74	-3.80
2483.50	Е	Average	57.38	-6.38	51.00	54	-3.00
2487.00	S	Peak	66.34	-6.37	59.98	74	-14.02
2487.00	S	Average	52.22	-6.37	45.85	54	-8.15

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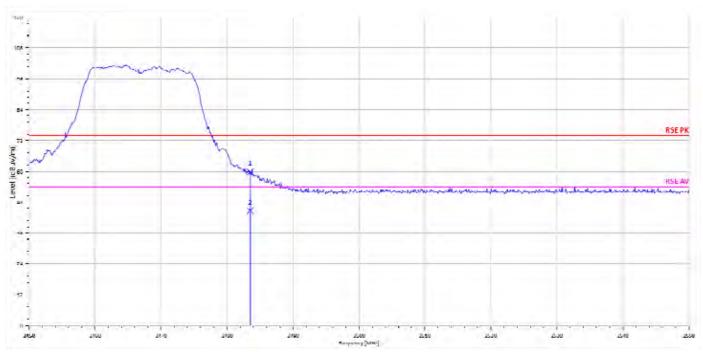
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Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: **BE CH 12** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

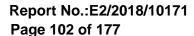


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	66.07	-6.38	59.68	74	-14.32
2483.50	Е	Average	50.98	-6.38	44.60	54	-9.40

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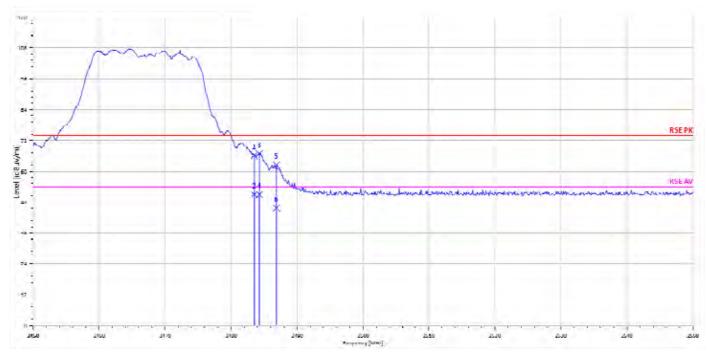
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Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH Operation Band: **BE CH 12** Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

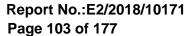


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	72.42	-6.38	66.04	74	-7.96
2483.50	E	Average	57.34	-6.38	50.95	54	-3.05
2484.30	S	Peak	73.23	-6.38	66.85	74	-7.15
2484.30	S	Average	57.27	-6.38	50.89	54	-3.11
2486.90	S	Peak	68.84	-6.37	62.47	74	-11.53
2486.90	S	Average	52.03	-6.37	45.66	54	-8.34

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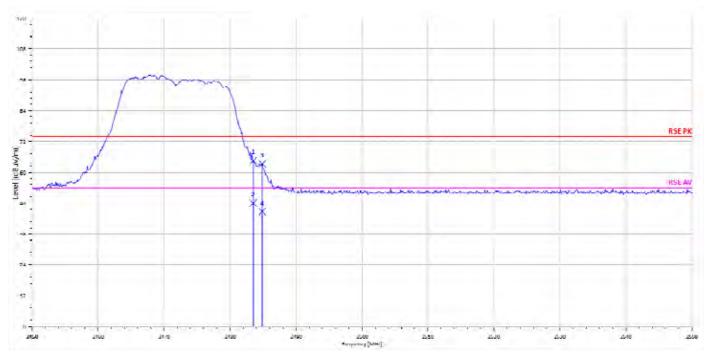
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Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: **BE CH 13** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

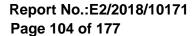


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	70.85	-6.38	64.47	74	-9.53
2483.50	E	Average	54.38	-6.38	47.99	54	-6.01
2484.90	S	Peak	69.66	-6.38	63.28	74	-10.72
2484.90	S	Average	51.03	-6.38	44.65	54	-9.35

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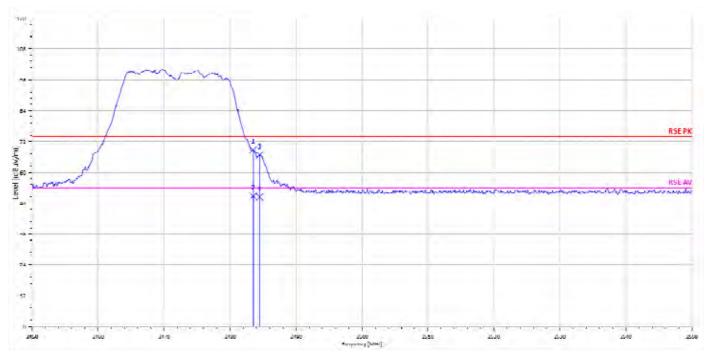
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Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: **BE CH 13** Test Engineer: Jerry Horizontal EUT Pol.: E2 Measurement Antenna Pol.:

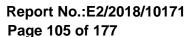


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	75.13	-6.38	68.75	74	-5.25
2483.50	Е	Average	57.03	-6.38	50.65	54	-3.35
2484.50	S	Peak	73.03	-6.38	66.65	74	-7.35
2484.50	S	Average	56.68	-6.38	50.30	54	-3.70

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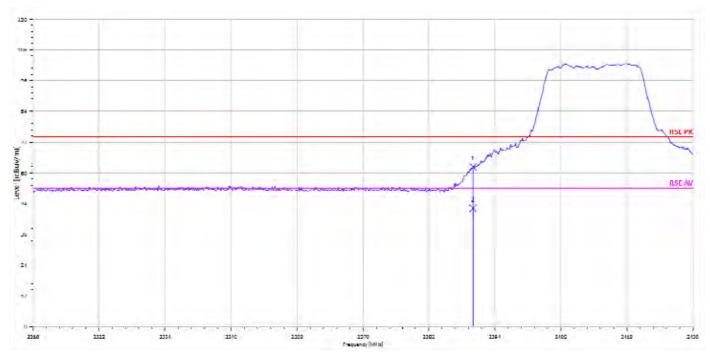




Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode: Test Date: 802.11n20 2018/2/21 Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical E2

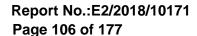


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2390.00	E	Peak	69.05	-6.84	62.21	74	-11.79
2390.00	E	Average	52.96	-6.84	46.12	54	-7.88

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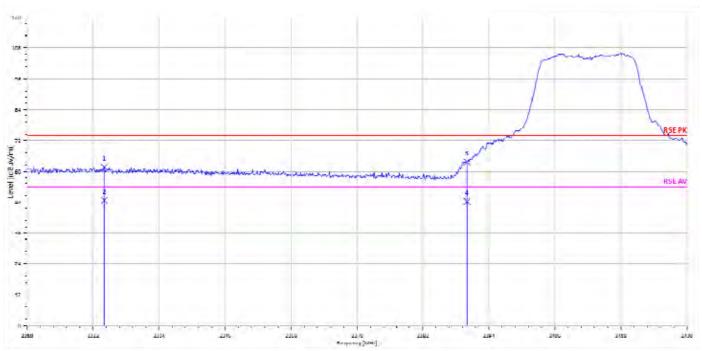
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Fundamental Frequency: 25deg_C/65RH 2412 MHz Temp. / Humi.:

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

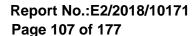


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2324.04	S	Peak	68.63	-7.07	61.56	74	-12.44
2324.04	S	Average	55.72	-7.07	48.65	54	-5.35
2390.00	E	Peak	70.45	-6.84	63.60	74	-10.40
2390.00	E	Average	55.10	-6.84	48.26	54	-5.74

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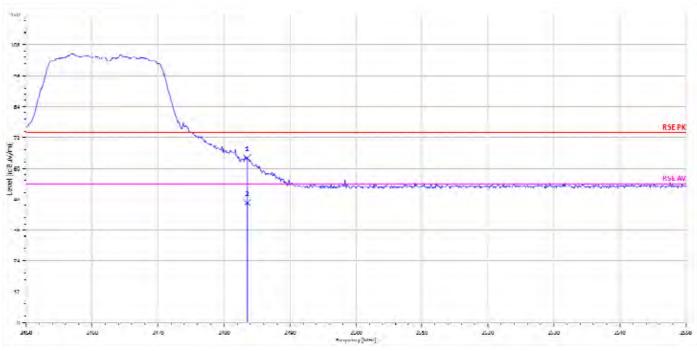
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Fundamental Frequency: 25deg_C/65RH 2462 MHz Temp. / Humi.:

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

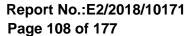


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
2483.50	Е	Peak	70.41	-6.38	64.02	74	-9.98	
2483.50	E	Average	52.91	-6.38	46.53	54	-7.47	

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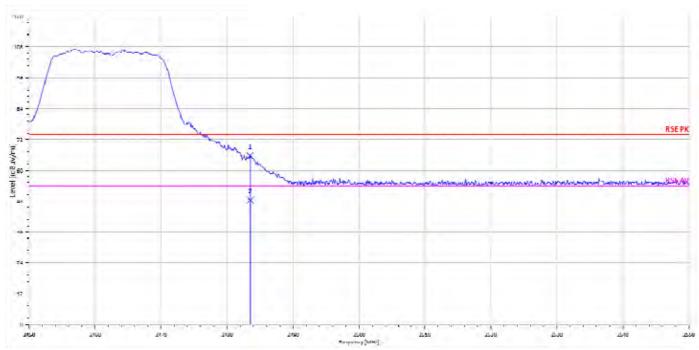
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Fundamental Frequency: 25deg_C/65RH 2462 MHz Temp. / Humi.:

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Horizontal E2

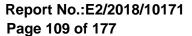


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	72.06	-6.38	65.68	74	-8.32
2483.50	Е	Average	54.77	-6.38	48.38	54	-5.62

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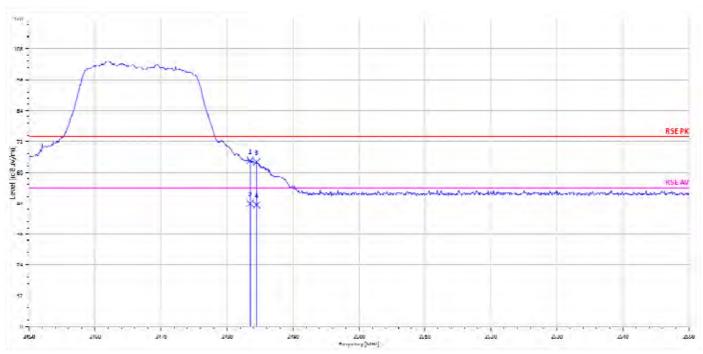
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Fundamental Frequency: 2467 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH 12 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

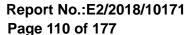


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	71.00	-6.38	64.61	74	-9.39
2483.50	Е	Average	54.23	-6.38	47.85	54	-6.15
2484.50	S	Peak	70.42	-6.38	64.04	74	-9.96
2484.50	S	Average	53.71	-6.38	47.33	54	-6.67

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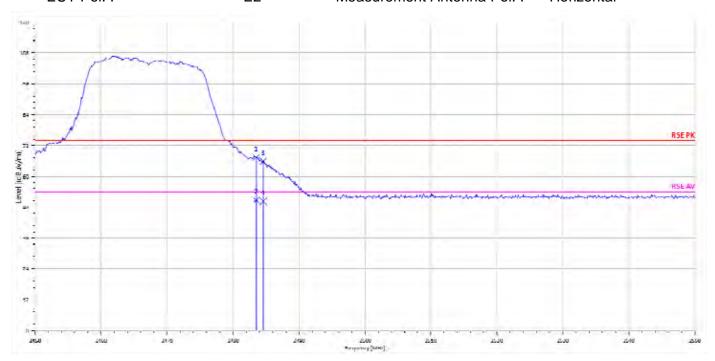
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Fundamental Frequency: 2467 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH 12 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

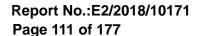


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	73.71	-6.38	67.33	74	-6.67
2483.50	Е	Average	57.02	-6.38	50.64	54	-3.36
2484.60	S	Peak	72.16	-6.38	65.78	74	-8.22
2484.60	S	Average	56.55	-6.38	50.17	54	-3.83

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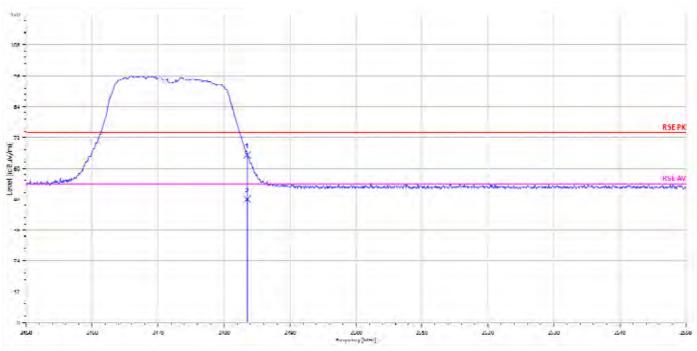
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Fundamental Frequency: 2472 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 13** Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
2483.50	Е	Peak	71.57	-6.38	65.18	74	-8.82	
2483.50	Ε	Average	54.38	-6.38	48.00	54	-6.00	

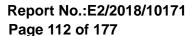
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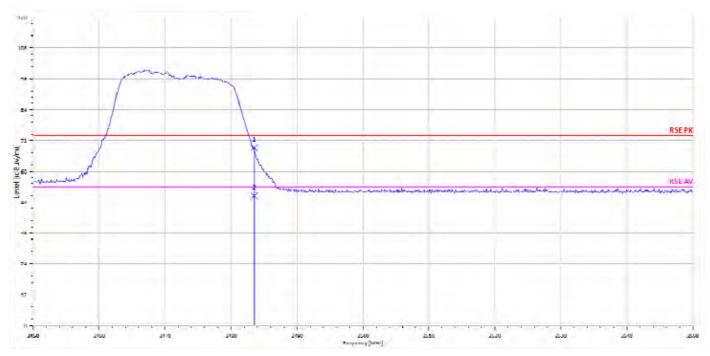
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Fundamental Frequency: 2472 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 13** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	75.57	-6.38	69.19	74	-4.81
2483.50	Е	Average	56.79	-6.38	50.41	54	-3.59

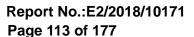
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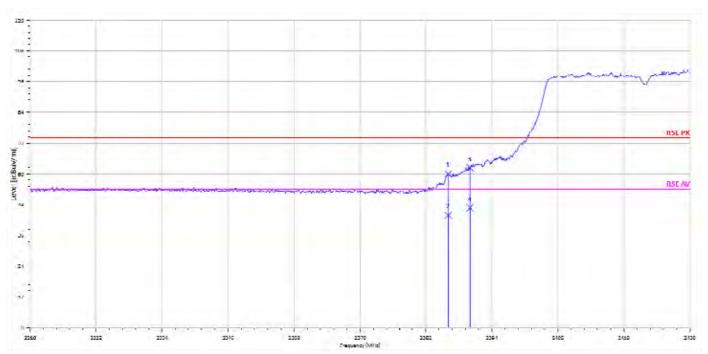




Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode: Test Date: 802.11n40 2018/2/21 Fundamental Frequency: 2422 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical E2

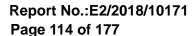


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2386.08	S	Peak	66.77	-6.86	59.91	74	-14.09
2386.08	S	Average	50.70	-6.86	43.84	54	-10.16
2390.00	E	Peak	69.20	-6.84	62.36	74	-11.64
2390.00	E	Average	53.55	-6.84	46.70	54	-7.30

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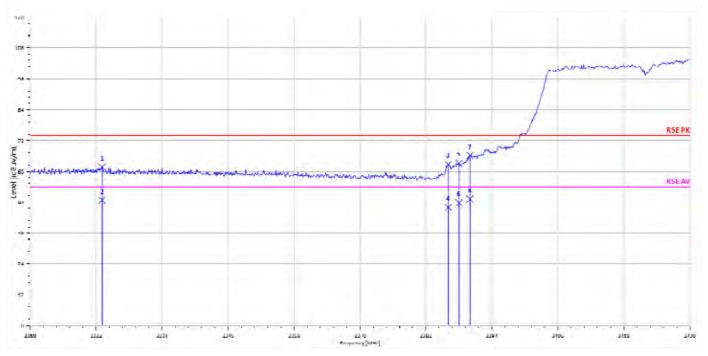
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Fundamental Frequency: 25deg_C/65RH 2422 MHz Temp. / Humi.:

Operation Band: BE CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

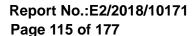


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2323.08	S	Peak	68.69	-7.08	61.61	74	-12.39
2323.08	S	Average	55.80	-7.08	48.72	54	-5.28
2386.08	S	Peak	69.50	-6.86	62.64	74	-11.36
2386.08	S	Average	52.74	-6.86	45.88	54	-8.12
2388.00	S	Peak	69.93	-6.85	63.08	74	-10.92
2388.00	S	Average	54.58	-6.85	47.73	54	-6.27
2390.00	E	Peak	72.94	-6.84	66.10	74	-7.90
2390.00	E	Average	56.01	-6.84	49.17	54	-4.83

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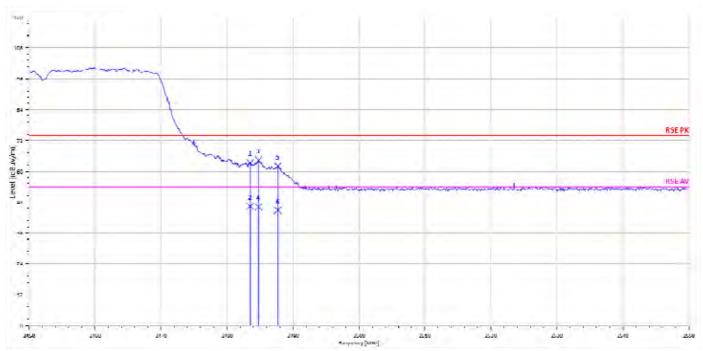
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Fundamental Frequency: 25deg_C/65RH 2452 MHz Temp. / Humi.:

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

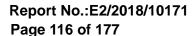


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	69.71	-6.38	63.32	74	-10.68
2483.50	E	Average	52.76	-6.38	46.37	54	-7.63
2484.80	S	Peak	70.68	-6.38	64.30	74	-9.70
2484.80	S	Average	52.50	-6.38	46.13	54	-7.87
2487.70	S	Peak	68.42	-6.36	62.06	74	-11.94
2487.70	S	Average	51.14	-6.36	44.78	54	-9.22

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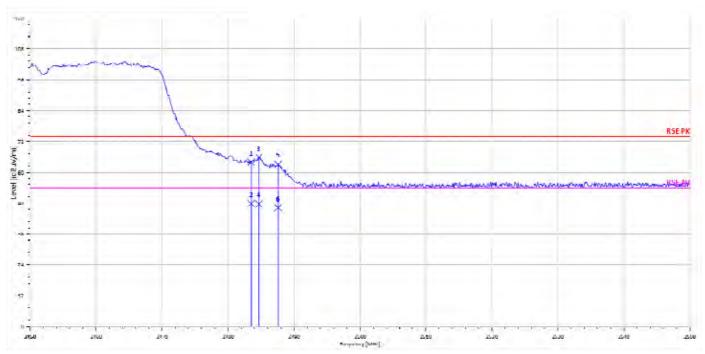
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Fundamental Frequency: 25deg_C/65RH 2452 MHz Temp. / Humi.:

Operation Band: BE CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2

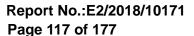


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	70.34	-6.38	63.96	74	-10.04
2483.50	E	Average	54.22	-6.38	47.83	54	-6.17
2484.70	S	Peak	72.10	-6.38	65.72	74	-8.28
2484.70	S	Average	54.01	-6.38	47.63	54	-6.37
2487.60	S	Peak	69.45	-6.36	63.09	74	-10.91
2487.60	S	Average	52.59	-6.36	46.22	54	-7.78

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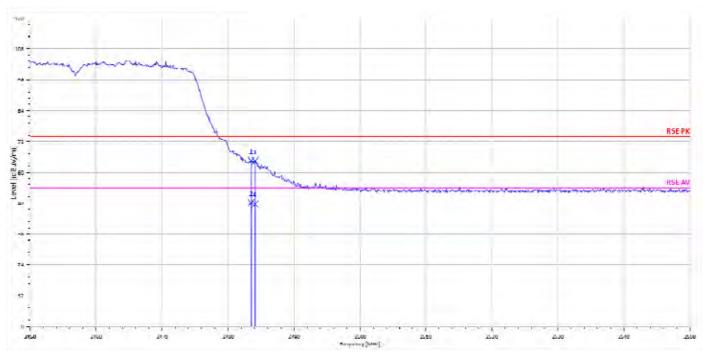
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Fundamental Frequency: 2457 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH 10 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

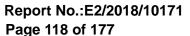


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	71.00	-6.38	64.62	74	-9.38
2483.50	Е	Average	54.52	-6.38	48.13	54	-5.87
2484.10	S	Peak	70.79	-6.38	64.41	74	-9.59
2484.10	S	Average	54.00	-6.38	47.62	54	-6.38

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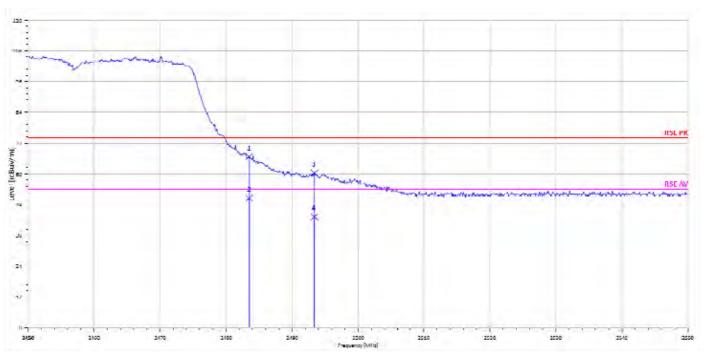
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Operation Mode: Test Date: 802.11n40 2018/2/27 Fundamental Frequency: 2457 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: BE CH 10 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

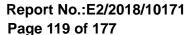


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	73.02	-6.38	66.64	74	-7.36
2483.50	Е	Average	56.83	-6.38	50.45	54	-3.55
2493.40	S	Peak	66.59	-6.33	60.26	74	-13.74
2493.40	S	Average	49.48	-6.33	43.15	54	-10.85

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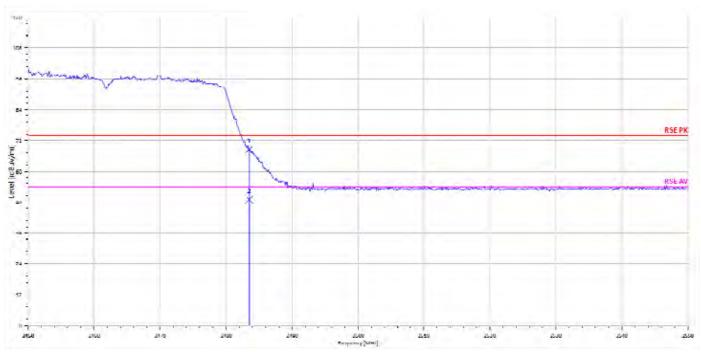
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 11** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

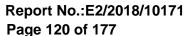


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	74.87	-6.38	68.48	74	-5.52
2483.50	Е	Average	55.31	-6.38	48.92	54	-5.08

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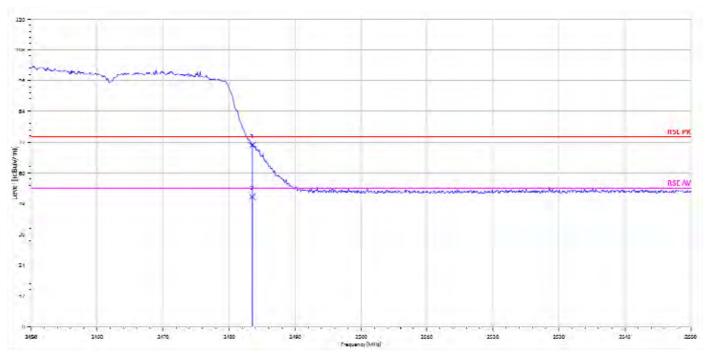




Operation Mode: Test Date: 802.11n40 2018/2/27 Fundamental Frequency: 2462 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: **BE CH 11** Test Engineer: Jerry

EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

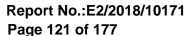


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	77.11	-6.38	70.72	74	-3.28
2483.50	Е	Average	57.02	-6.38	50.63	54	-3.37

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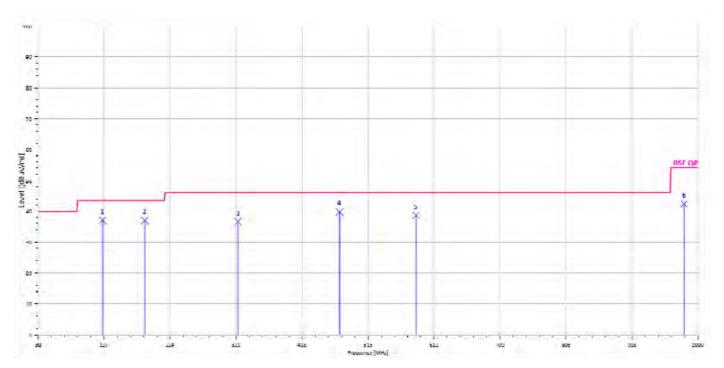


Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode: Test Date: 2018/5/22 802.11g Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
125.06	S	Peak	55.22	-18.16	37.06	43.5	-6.44
187.14	S	Peak	55.56	-18.53	37.03	43.5	-6.47
323.91	S	Peak	51.23	-14.62	36.61	46	-9.39
473.29	S	Peak	50.91	-11.10	39.82	46	-6.18
585.81	S	Peak	47.47	-8.81	38.66	46	-7.34
979.63	S	Peak	46.46	-4.06	42.41	54	-11.59

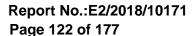
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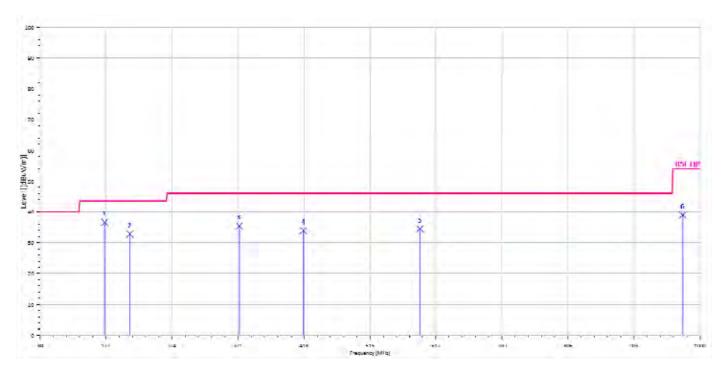
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

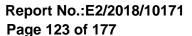


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
125.06	S	Peak	54.82	-18.16	36.66	43.5	-6.84
161.92	S	Peak	48.52	-15.71	32.81	43.5	-10.69
322.94	S	Peak	50.11	-14.64	35.47	46	-10.53
417.03	S	Peak	45.95	-12.01	33.94	46	-12.06
588.72	S	Peak	43.30	-8.77	34.53	46	-11.47
974.78	S	Peak	42.99	-4.06	38.93	54	-15.07

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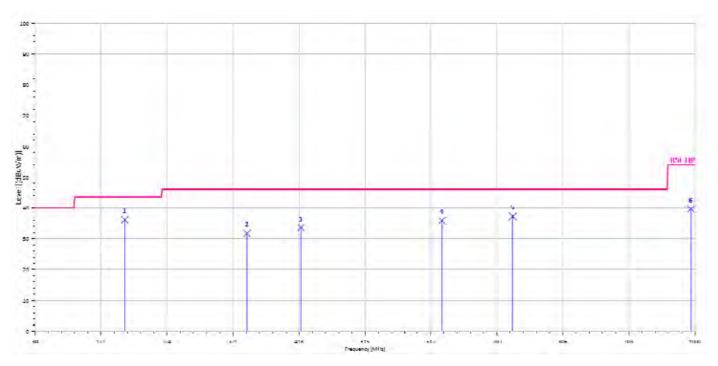
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2437 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

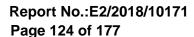


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
161.92	S	Peak	51.94	-15.71	36.22	43.5	-7.28
341.37	S	Peak	46.07	-14.32	31.75	46	-14.25
420.91	S	Peak	45.66	-12.09	33.57	46	-12.43
628.49	S	Peak	44.78	-8.86	35.92	46	-10.08
732.28	S	Peak	44.93	-7.68	37.25	46	-8.75
994.18	S	Peak	43.58	-3.93	39.65	54	-14.35

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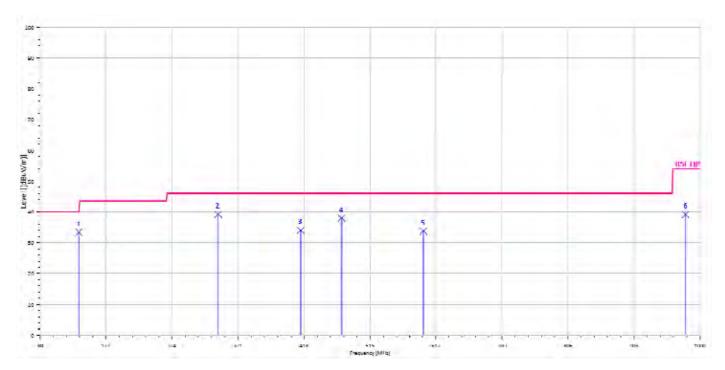
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2437 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

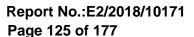


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
87.23	S	Peak	55.74	-22.32	33.41	40	-6.59
291.90	S	Peak	54.67	-15.45	39.22	46	-6.78
413.15	S	Peak	45.97	-11.98	34.00	46	-12.00
473.29	S	Peak	49.07	-11.10	37.97	46	-8.03
593.57	S	Peak	42.73	-8.97	33.76	46	-12.24
978.66	S	Peak	43.23	-4.06	39.17	54	-14.83

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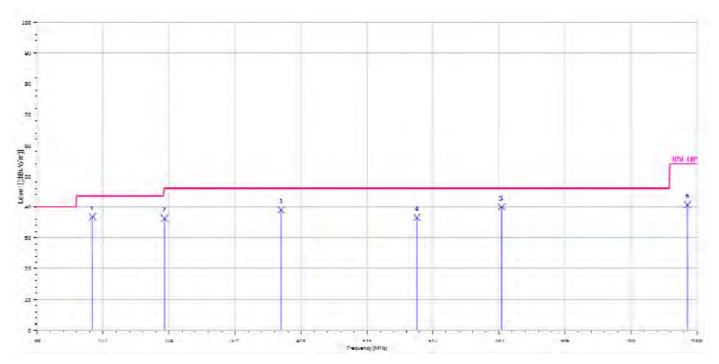
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

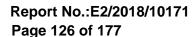


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
111.48	S	Peak	56.06	-19.29	36.77	43.5	-6.73
217.21	S	Peak	54.96	-18.63	36.33	46	-9.67
388.90	S	Peak	52.11	-13.13	38.98	46	-7.02
588.72	S	Peak	45.35	-8.77	36.58	46	-9.42
712.88	S	Peak	47.37	-7.38	39.99	46	-6.01
986.42	S	Peak	44.84	-4.08	40.76	54	-13.24

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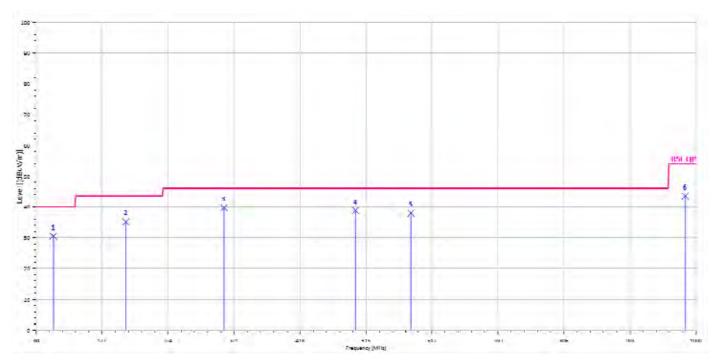
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

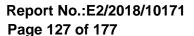


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
55.22	S	Peak	48.16	-17.62	30.55	40	-9.45
161.92	S	Peak	50.86	-15.71	35.15	43.5	-8.35
306.45	S	Peak	54.93	-15.18	39.75	46	-6.25
499.48	S	Peak	50.24	-11.39	38.85	46	-7.15
580.96	S	Peak	46.87	-8.87	37.99	46	-8.01
984.48	S	Peak	47.58	-4.07	43.51	54	-10.49

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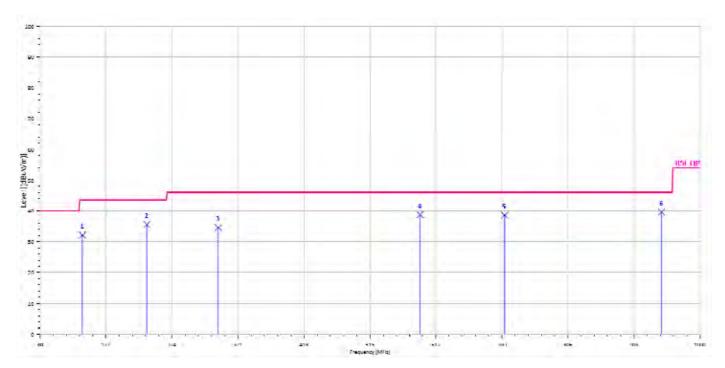
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Operation Mode: Test Date: 802.11g 2018/5/22 Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

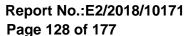


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
92.29	S	Peak	54.68	-22.51	32.17	43.5	-11.33
187.14	S	Peak	54.16	-18.53	35.62	43.5	-7.88
291.90	S	Peak	50.03	-15.45	34.59	46	-11.41
588.72	S	Peak	47.53	-8.77	38.77	46	-7.23
712.88	S	Peak	45.97	-7.38	38.59	46	-7.41
943.74	S	Peak	44.25	-4.58	39.66	46	-6.34

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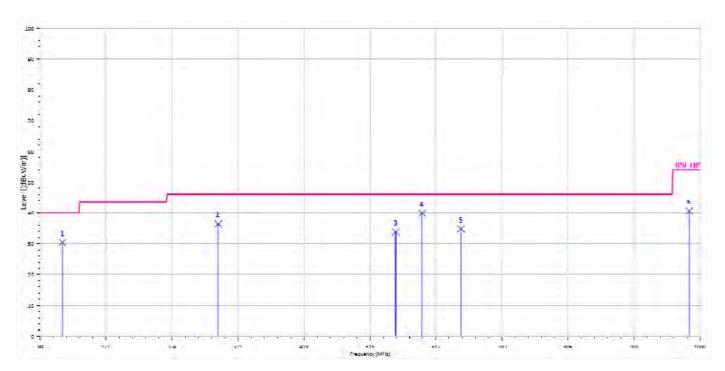
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Operation Mode: Test Date: 802.11g 2018/5/22 Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

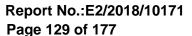


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
62.98	S	Peak	48.80	-18.39	30.42	40	-9.58
291.90	S	Peak	51.91	-15.45	36.46	46	-9.54
552.83	S	Peak	44.27	-10.43	33.84	46	-12.16
591.63	S	Peak	48.77	-8.85	39.92	46	-6.08
648.86	S	Peak	42.78	-7.92	34.86	46	-11.14
984.48	S	Peak	44.71	-4.07	40.64	54	-13.36

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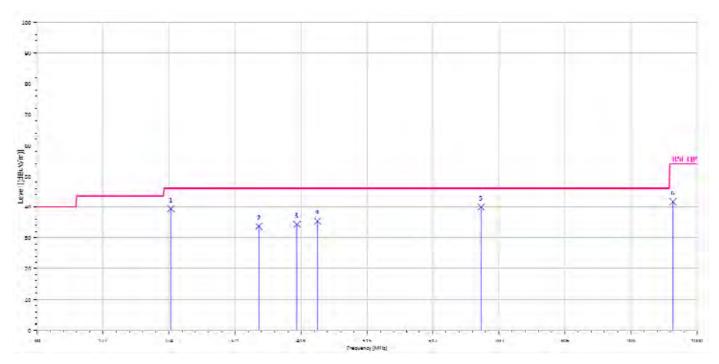
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Operation Mode: Test Date: 802.11g 2018/5/22 Fundamental Frequency: 2472 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH 13 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

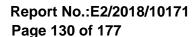


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
226.91	S	Peak	57.40	-18.01	39.40	46	-6.60
355.92	S	Peak	47.77	-14.12	33.65	46	-12.35
412.18	S	Peak	46.33	-11.97	34.36	46	-11.64
442.25	S	Peak	47.84	-12.41	35.43	46	-10.57
682.81	S	Peak	48.41	-8.44	39.97	46	-6.03
965.08	S	Peak	45.96	-4.26	41.70	54	-12.30

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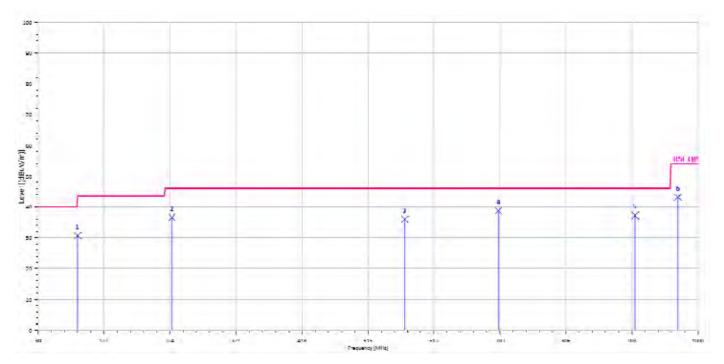
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2472 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH 13 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
88.20	S	Peak	53.19	-22.49	30.70	43.5	-12.80
226.91	S	Peak	54.63	-18.01	36.62	46	-9.38
569.32	S	Peak	45.73	-9.68	36.05	46	-9.95
707.06	S	Peak	46.10	-7.35	38.75	46	-7.25
907.85	S	Peak	42.48	-5.24	37.23	46	-8.77
970.90	S	Peak	47.25	-4.06	43.19	54	-10.81

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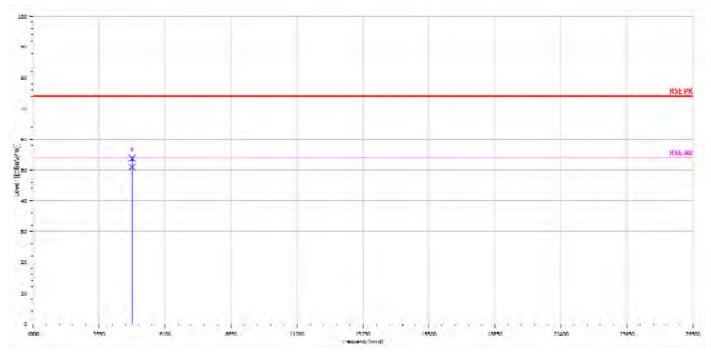


Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode: 802.11b Test Date: 2018/5/22 Fundamental Frequency: 2412 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	4824.00	Н	Peak	54.88	-1.04	53.84	74	-20.16
	4824.00	Н	Average	51.95	-1.04	50.91	54	-3.09

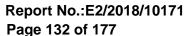
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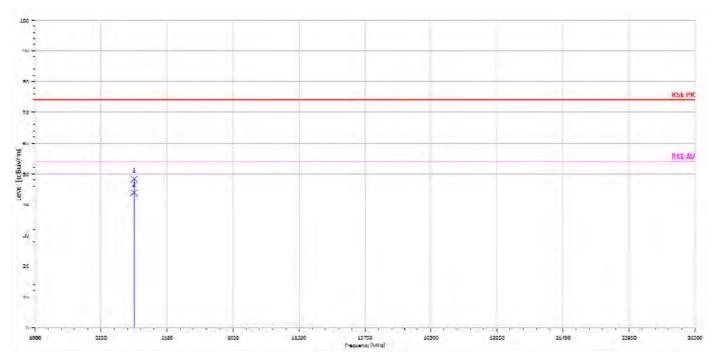
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Operation Mode: Test Date: 802.11b 2018/5/22 Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

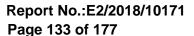


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	49.28	-1.04	48.24	74	-25.76
4824.00	Н	Average	44.86	-1.04	43.82	54	-10.18

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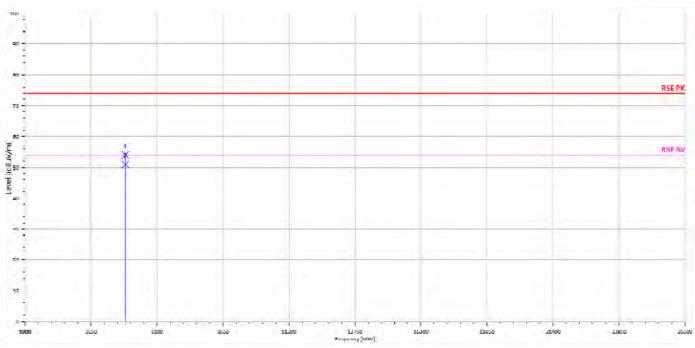
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

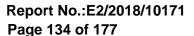


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	54.71	-0.75	53.96	74	-20.04
4874.00	Н	Average	51.66	-0.75	50.91	54	-3.09

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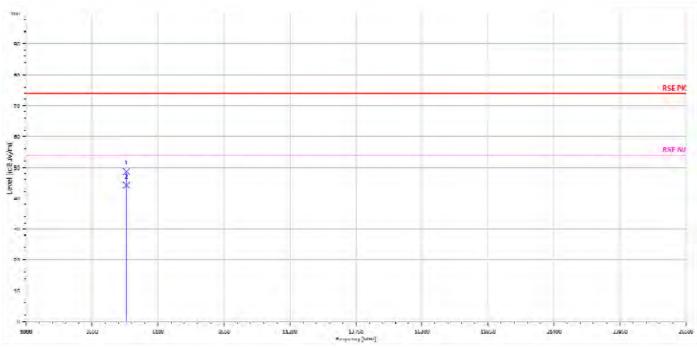
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

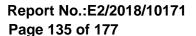


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	49.37	-0.75	48.62	74	-25.38
4874.00	Н	Average	44.94	-0.75	44.19	54	-9.81

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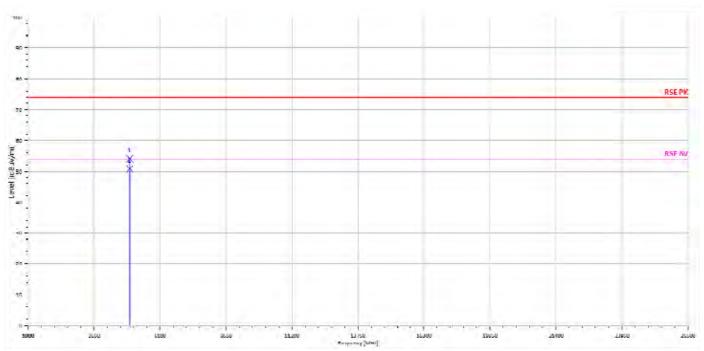
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Fundamental Frequency: Temp. / Humi.: 2462 MHz 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical

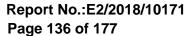


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	54.65	-0.62	54.03	74	-19.97
4924.00	Н	Average	51.38	-0.62	50.76	54	-3.24

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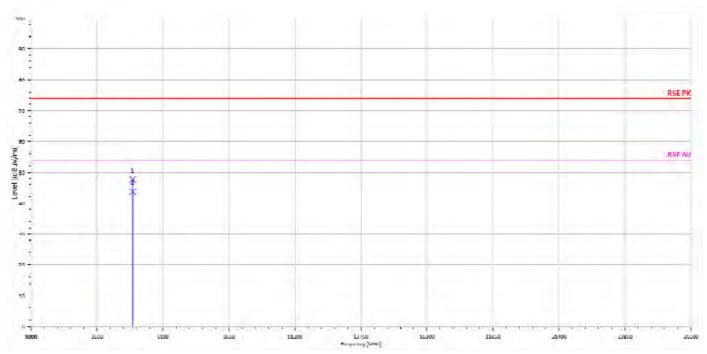
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Fundamental Frequency: Temp. / Humi.: 2462 MHz 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Horizontal

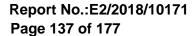


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4924.00	Н	Peak	48.28	-0.62	47.66	74	-26.34
4924.00	Н	Average	44.29	-0.62	43.67	54	-10.33

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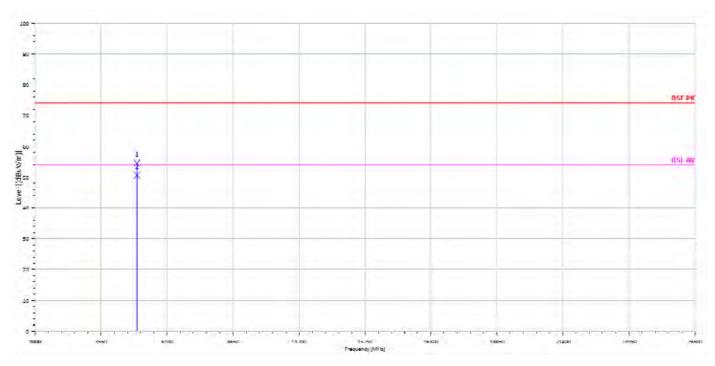
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Operation Mode: Test Date: 802.11b 2018/5/22 Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

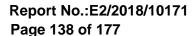


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4934.00	Н	Peak	55.20	-0.63	54.57	74	-19.43
4934.00	Н	Average	51.28	-0.63	50.65	54	-3.35

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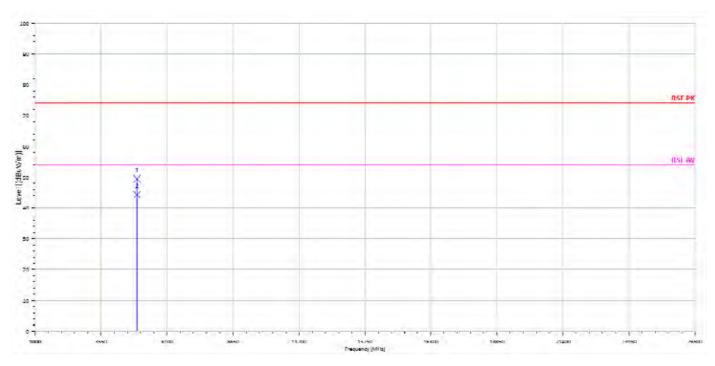




Operation Mode: Test Date: 802.11b 2018/5/22 Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

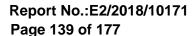


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4934.00	Н	Peak	50.10	-0.63	49.47	74	-24.53
4934.00	Н	Average	44.96	-0.63	44.33	54	-9.67

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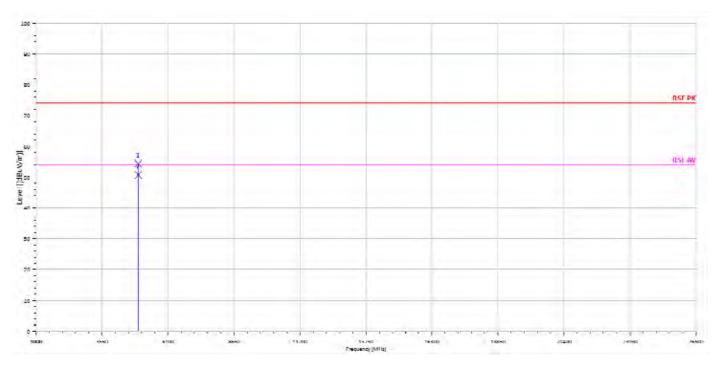
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Operation Mode: Test Date: 802.11b 2018/5/22 Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 13 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

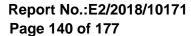


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4944.00	Н	Peak	55.01	-0.64	54.37	74	-19.63
4944.00	Н	Average	51.37	-0.64	50.73	54	-3.27

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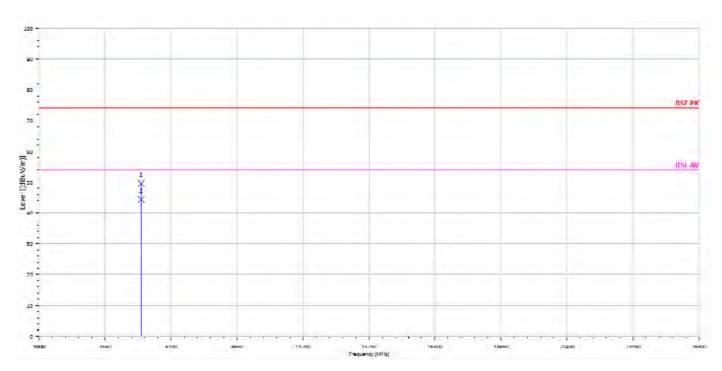




Operation Mode: Test Date: 802.11b 2018/5/22 Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 13 Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

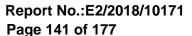


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Н	Peak	50.26	-0.64	49.62	74	-24.38
4944.00	Н	Average	45.02	-0.64	44.38	54	-9.62

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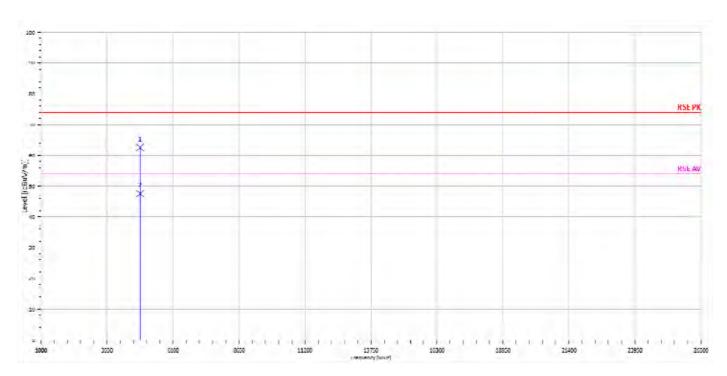




Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode: 802.11g Test Date: 2018/5/22 25deg_C/65RH Fundamental Frequency: 2412 MHz Temp. / Humi. :

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	63.57	-1.04	62.53	74	-11.47
4824.00	Н	Average	48.59	-1.04	47.55	54	-6.45

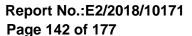
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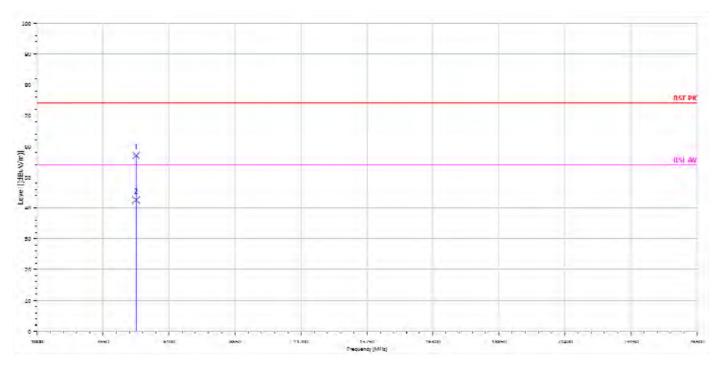




Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2412 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

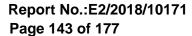


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	58.08	-1.04	57.04	74	-16.96
4824.00	Н	Average	43.60	-1.04	42.56	54	-11.44

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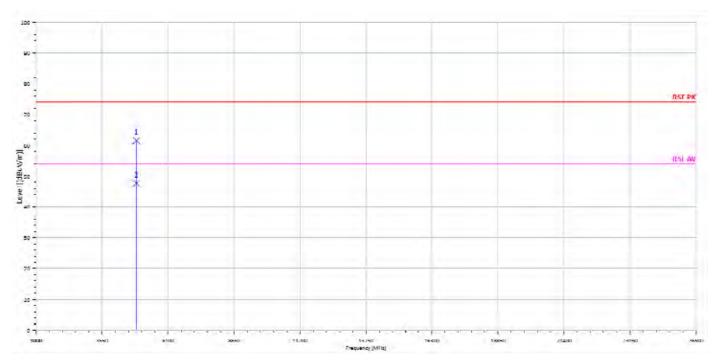
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2437 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

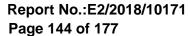


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	62.29	-0.75	61.55	74	-12.45
4874.00	Н	Average	48.37	-0.75	47.62	54	-6.38

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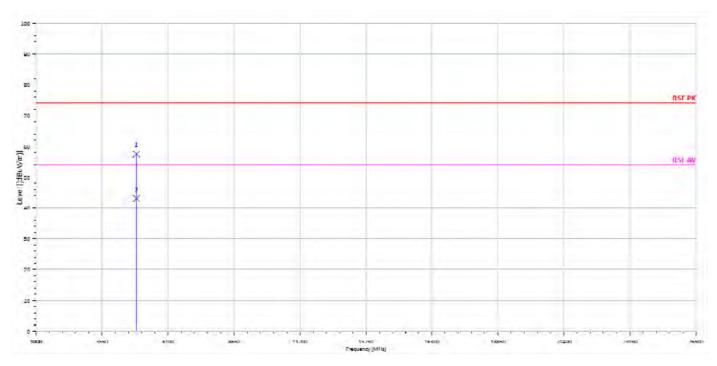
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 25deg_C/65RH Tx CH Mid

Operation Band: Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

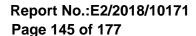


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
4874.00	Н	Peak	58.32	-0.75	57.57	74	-16.43
4874.00	Н	Average	43.81	-0.75	43.06	54	-10.94

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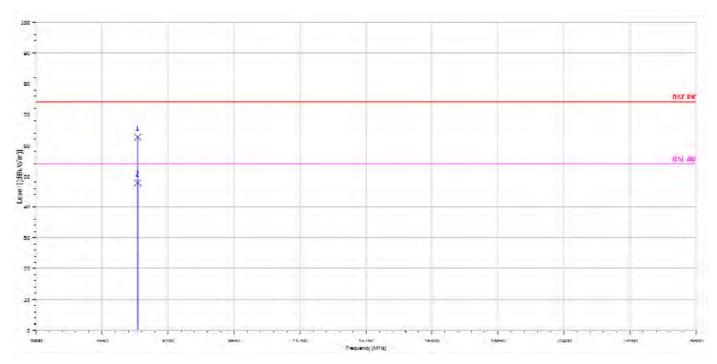
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

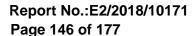


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	63.32	-0.62	62.70	74	-11.30
4924.00	Н	Average	48.51	-0.62	47.89	54	-6.11

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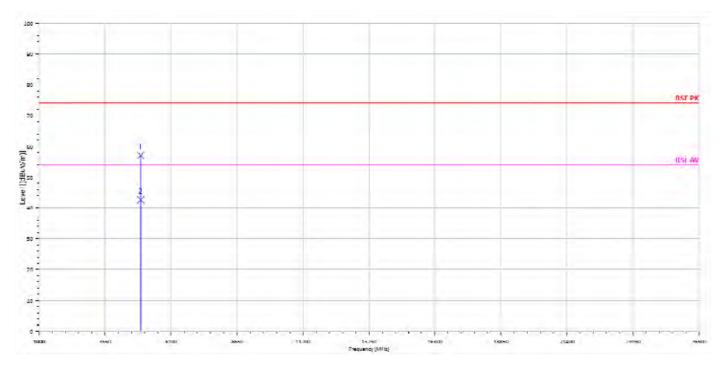
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

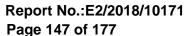


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	57.69	-0.62	57.07	74	-16.93
4924.00	Н	Average	43.22	-0.62	42.59	54	-11.41

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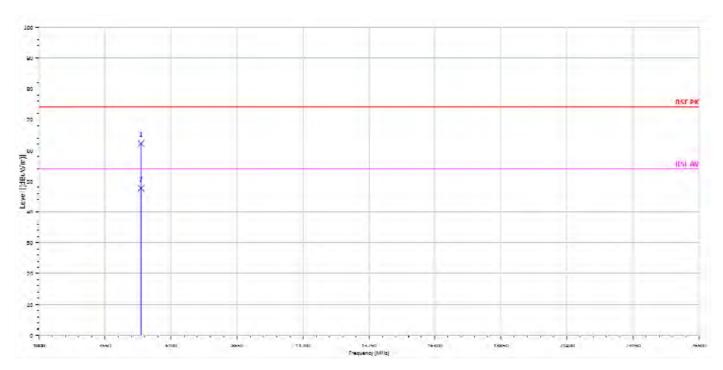
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Operation Mode: Test Date: 802.11g 2018/5/22 Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

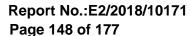


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4934.00	Н	Peak	62.88	-0.63	62.25	74	-11.75
4934.00	Н	Average	48.30	-0.63	47.67	54	-6.33

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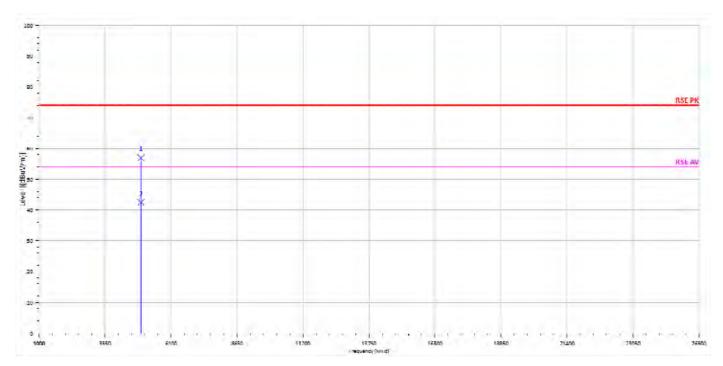
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2

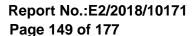


	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
,	4934.00	Н	Peak	57.60	-0.63	56.96	74	-17.04
	4934.00	Н	Average	43.10	-0.63	42.47	54	-11.53

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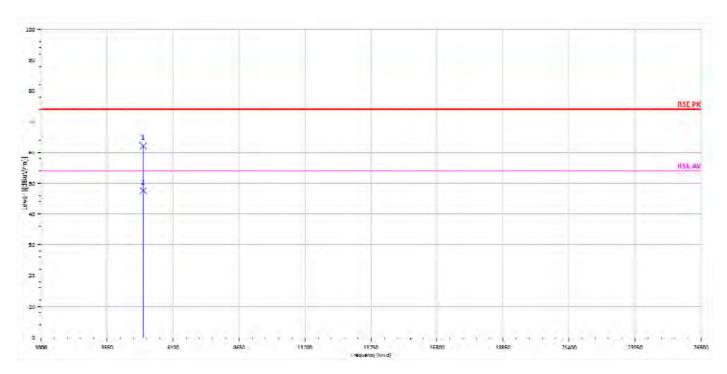
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: **Tx CH 13** Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : E2 Vertical

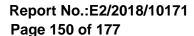


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Н	Peak	62.78	-0.64	62.14	74	-11.86
4944.00	Н	Average	48.22	-0.64	47.58	54	-6.42

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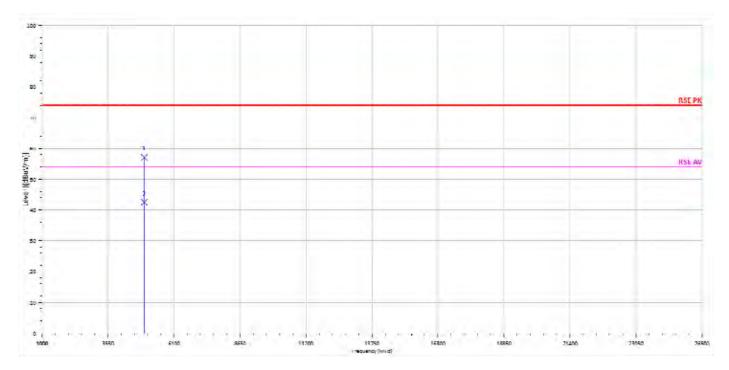
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Operation Mode: 802.11g Test Date: 2018/5/22 Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: **Tx CH 13** Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol. : Horizontal

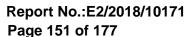


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Н	Peak	57.76	-0.64	57.11	74	-16.89
4944.00	Н	Average	43.13	-0.64	42.48	54	-11.52

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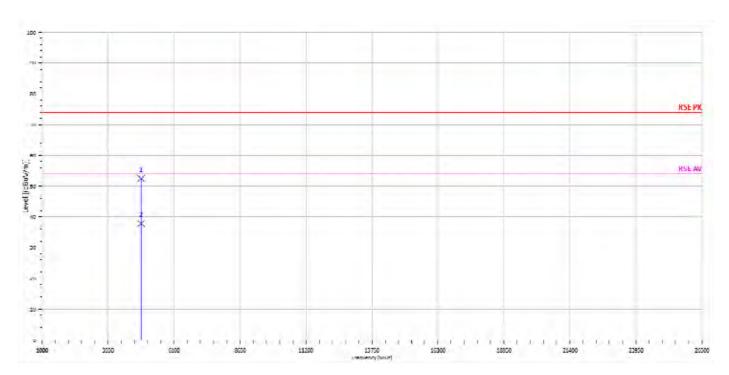


Radiated Spurious Emission Measurement Result (802.11n_HT20)

Operation Mode: 802.11n20 Test Date: 2018/2/26

Fundamental Frequency: 2412 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	53.53	-1.04	52.49	74	-21.51
4824.00	Н	Average	38.86	-1.04	37.82	54	-16.18

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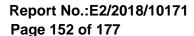
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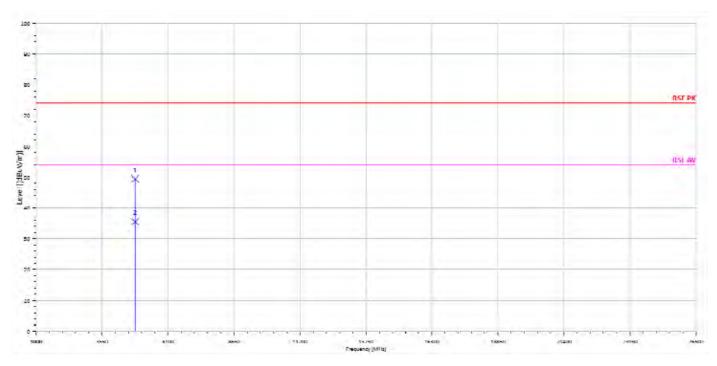
台灣檢驗科技股份有限公司





Operation Mode: 802.11n20 Test Date: 2018/2/26 Fundamental Frequency: 2412 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

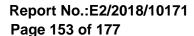


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	50.50	-1.04	49.46	74	-24.54
4824.00	Н	Average	36.60	-1.04	35.56	54	-18.44

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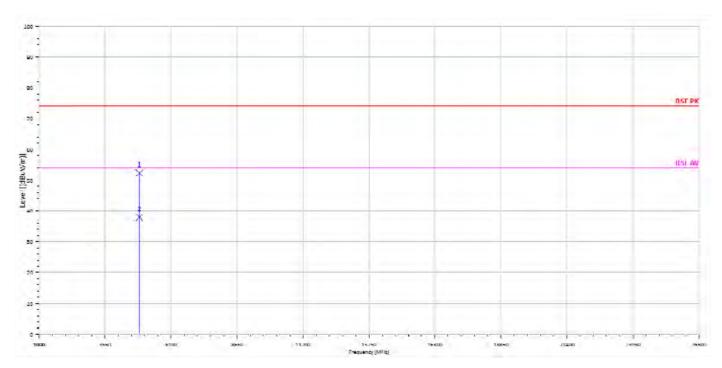
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Operation Mode: 802.11n20 Test Date: 2018/2/26 Fundamental Frequency: 2437 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

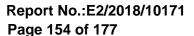


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	53.01	-0.75	52.26	74	-21.74
4874.00	Н	Average	38.70	-0.75	37.95	54	-16.05

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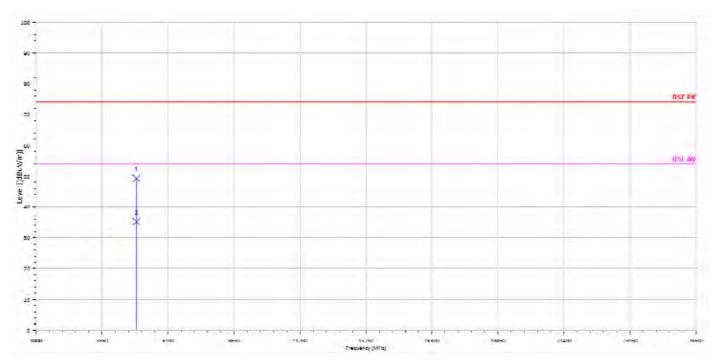




Operation Mode: 802.11n20 Test Date: 2018/2/26 Fundamental Frequency: 2437 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

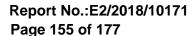


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4874.00	Н	Peak	50.09	-0.75	49.34	74	-24.66
4874.00	Н	Average	36.01	-0.75	35.26	54	-18.74

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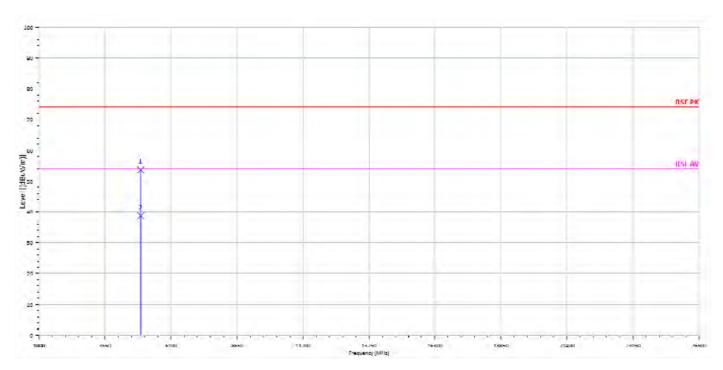
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Operation Mode: 802.11n20 Test Date: 2018/2/26 Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

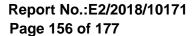


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	54.28	-0.62	53.66	74	-20.34
4924.00	Н	Average	39.34	-0.62	38.71	54	-15.29

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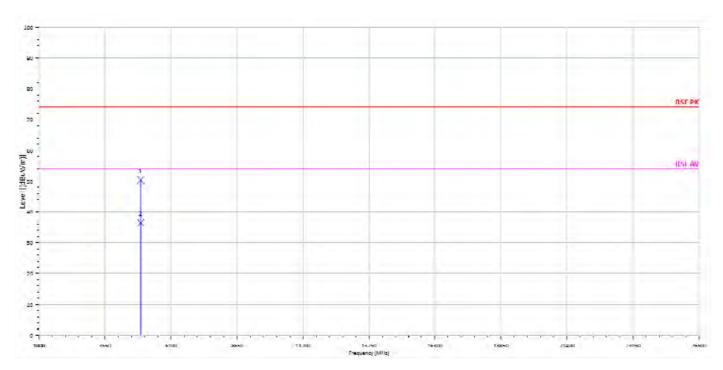
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Operation Mode: 802.11n20 Test Date: 2018/2/26 Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

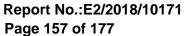


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	51.02	-0.62	50.40	74	-23.60
4924.00	Н	Average	37.12	-0.62	36.50	54	-17.50

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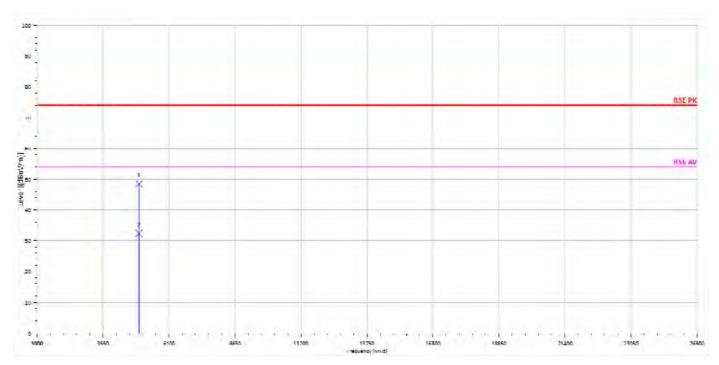
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Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : E2 Vertical

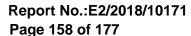


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4934.00	Н	Peak	49.13	-0.63	48.50	74	-25.50
4934.00	Н	Average	33.02	-0.63	32.39	54	-21.61

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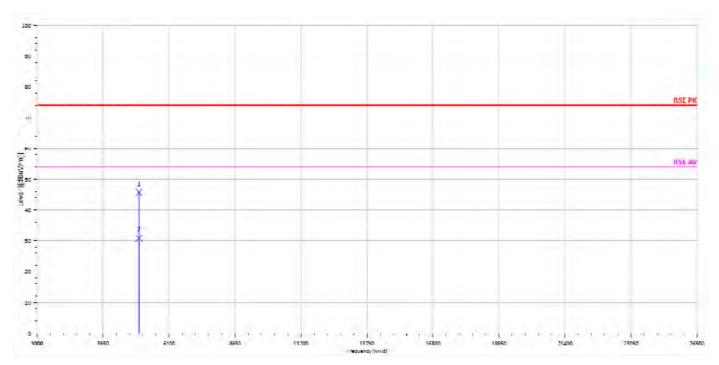
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Fundamental Frequency: 2467 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 12 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2

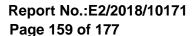


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4934.00	Н	Peak	46.37	-0.63	45.74	74	-28.26
4934.00	Н	Average	31.52	-0.63	30.89	54	-23.11

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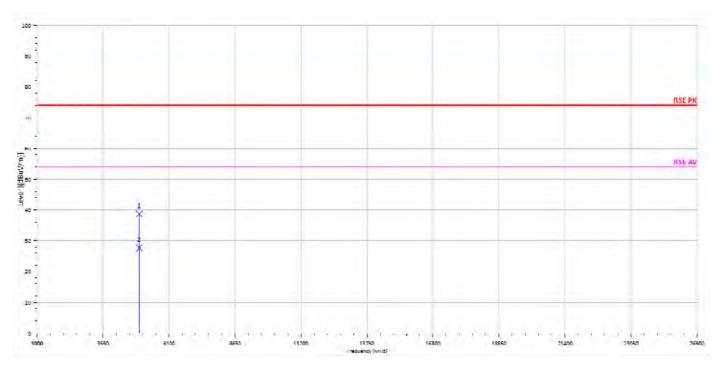
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Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 13 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

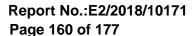


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Н	Peak	39.33	-0.64	38.69	74	-35.31
4944.00	Н	Average	28.33	-0.64	27.68	54	-26.32

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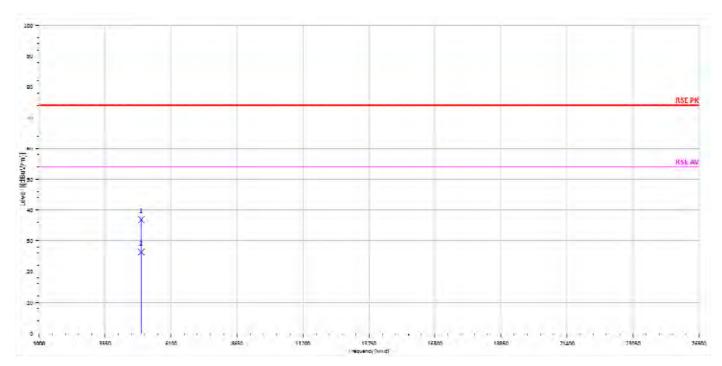
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Fundamental Frequency: 2472 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 13 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2

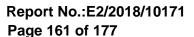


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Н	Peak	37.54	-0.64	36.90	74	-37.10
4944.00	Н	Average	27.02	-0.64	26.38	54	-27.62

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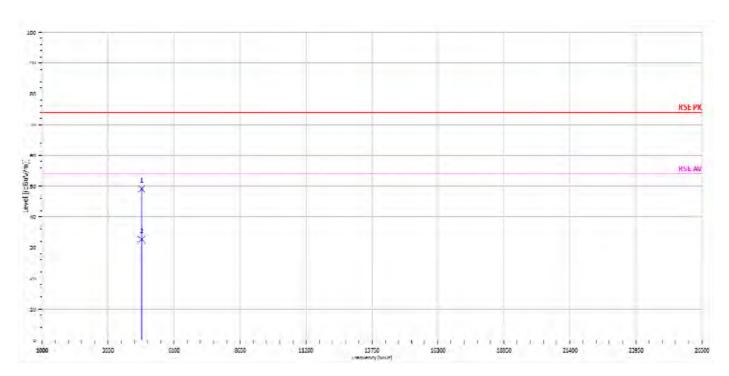


Radiated Spurious Emission Measurement Result (802.11n_HT40)

Operation Mode: 802.11n40 Test Date: 2018/3/1

Fundamental Frequency: 2422 MHz Temp. / Humi.: 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4844.00	Н	Peak	49.99	-0.92	49.07	74	-24.93
4844.00	Н	Average	33.58	-0.92	32.66	54	-21.34

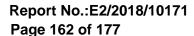
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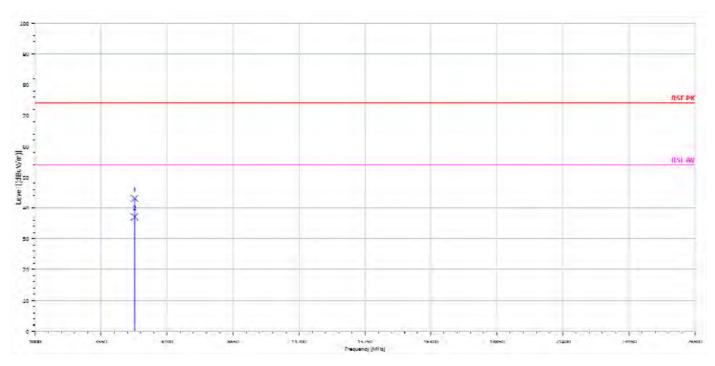




Fundamental Frequency: 2422 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Low Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

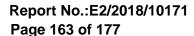


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4844.00	Н	Peak	47.25	-0.92	43.06	74	-30.94
4844.00	Н	Average	38.01	-0.92	37.09	54	-16.91

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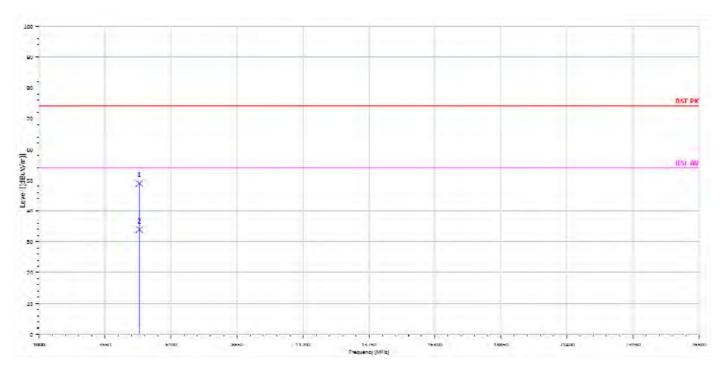
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Fundamental Frequency: 2437 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

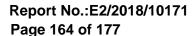


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	49.70	-0.75	48.95	74	-25.05
4874.00	Н	Average	34.70	-0.75	33.95	54	-20.05

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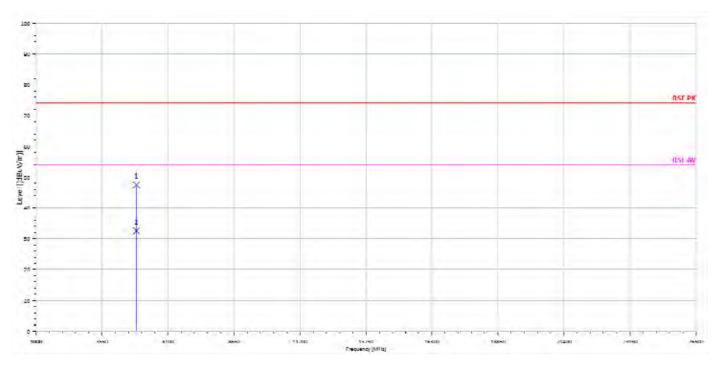




Fundamental Frequency: 2437 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH Mid Test Engineer: Jerry

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

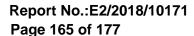


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	48.24	-0.75	47.49	74	-26.51
4874.00	Н	Average	33.29	-0.75	32.54	54	-21.46

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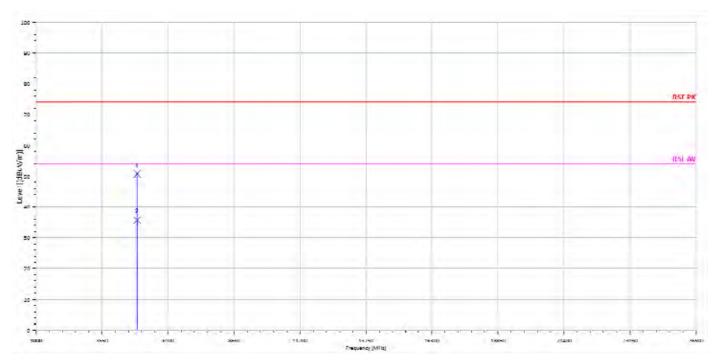
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Fundamental Frequency: 2452 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical

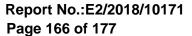


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4904.00	Н	Peak	51.33	-0.60	50.73	74	-23.27
4904.00	Н	Average	36.37	-0.60	35.77	54	-18.23

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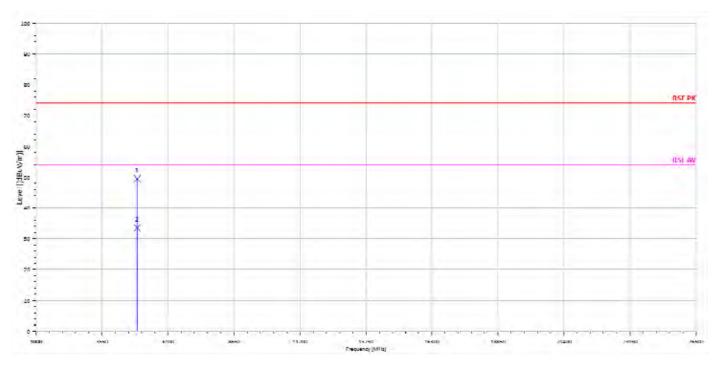
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Fundamental Frequency: 2452 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

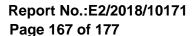


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4904.00	Н	Peak	50.12	-0.60	49.52	74	-24.48
4904.00	Н	Average	34.10	-0.60	33.50	54	-20.50

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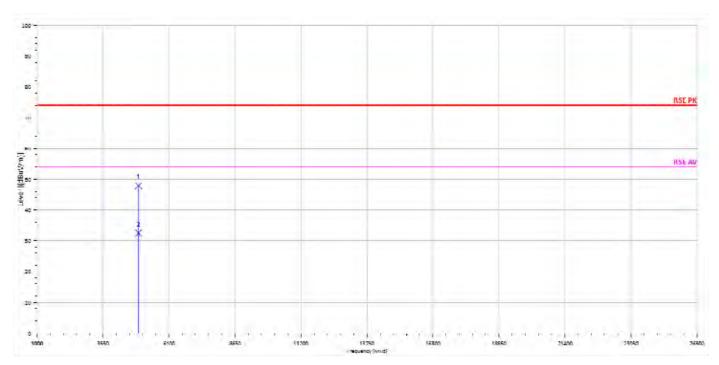
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Fundamental Frequency: 2457 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 10 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

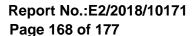


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4914.00	Н	Peak	48.53	-0.61	47.92	74	-26.08
4914.00	Н	Average	33.17	-0.61	32.56	54	-21.44

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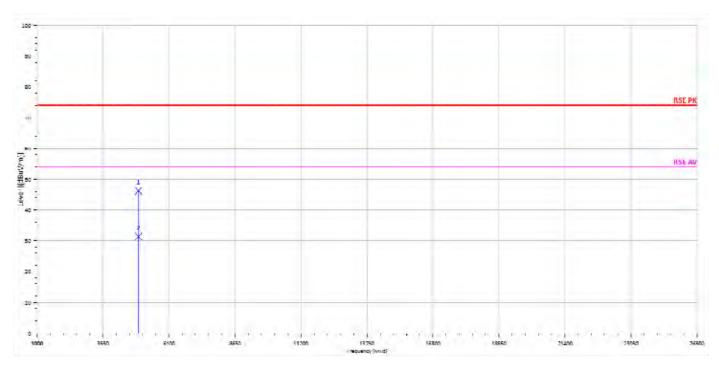
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Fundamental Frequency: 2457 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 10 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2

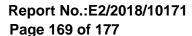


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4914.00	Н	Peak	46.84	-0.61	46.23	74	-27.77
4914.00	Н	Average	32.02	-0.61	31.41	54	-22.59

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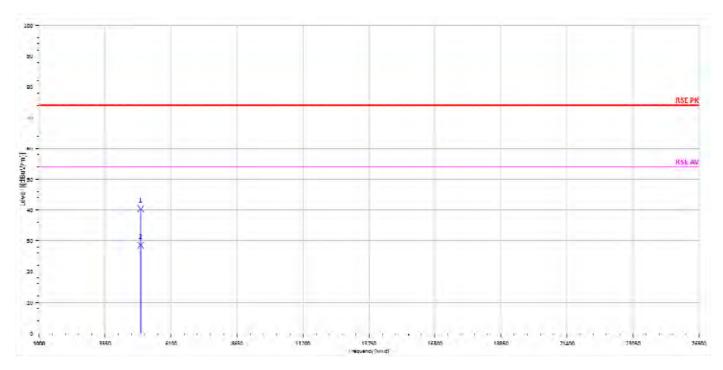
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Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 11 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Vertical E2

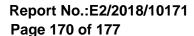


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	41.03	-0.62	40.41	74	-33.59
4924.00	Н	Average	29.21	-0.62	28.59	54	-25.41

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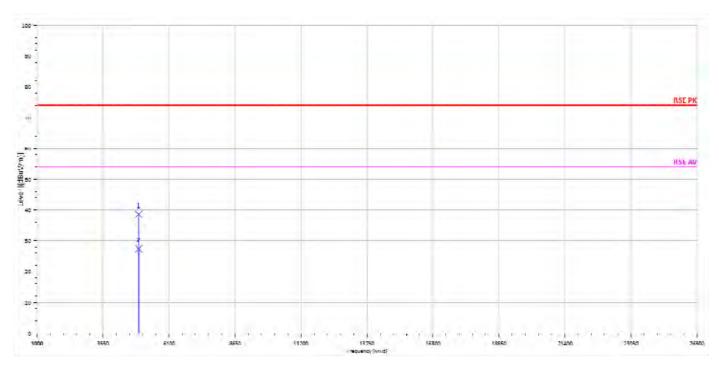
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Fundamental Frequency: 2462 MHz Temp. / Humi. : 25deg_C/65RH

Operation Band: Tx CH 11 Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol. : Horizontal E2



	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	4924.00	Н	Peak	39.17	-0.62	38.55	74	-35.45
	4924.00	Н	Average	28.03	-0.62	27.41	54	-26.59

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12 PEAK POWER SPECTRAL DENSITY

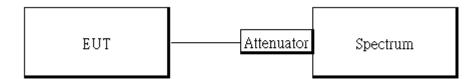
12.1 Standard Applicable

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

12.2 **Measurement Equipment Used**

Conducted Emission Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018		
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/24/2017	12/23/2018		
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018		
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018		

12.3 Test Set-up



12.4 Measurement Procedure

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 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.
- 11.802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application for the test of PSD at MIMO mode, the highest emission of worst case is employing.

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12.5 **Measurement Result**

	POWER DENSITY 802.11b						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result			
2412	-15.38	-15.38	8.00	PASS			
2437	-15.12	-15.12	8.00	PASS			
2462	-15.34	-15.34	8.00	PASS			
2467	-14.99	-14.99	8.00	PASS			
2472	-16.18	-16.18	8.00	PASS			

	POWER DENSITY 802.11g						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result			
2412	-8.96	-8.96	8.00	PASS			
2437	-9.17	-9.17	8.00	PASS			
2462	-8.30	-8.30	8.00	PASS			
2467	-10.74	-10.74	8.00	PASS			
2472	-17.01	-17.01	8.00	PASS			

POWER DENSITY 802.11n HT20						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result		
2412	-7.97	-7.97	8.00	PASS		
2437	-8.20	-8.20	8.00	PASS		
2462	-8.74	-8.74	8.00	PASS		
2467	-10.75	-10.75	8.00	PASS		
2472	-21.53	-21.53	8.00	PASS		

POWER DENSITY 802.11n HT40						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result		
2422	-10.66	-10.66	8.00	PASS		
2437	-11.09	-11.09	8.00	PASS		
2452	-10.66	-10.66	8.00	PASS		
2457	-13.61	-13.61	8.00	PASS		
2462	-18.94	-18.94	8.00	PASS		

*Refer to next page for plots

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2467MHz



Power Spectral Density Test Plot (CH-High) 2472 MHz



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802.11g

Power Spectral Density Test Plot (CH-Low)



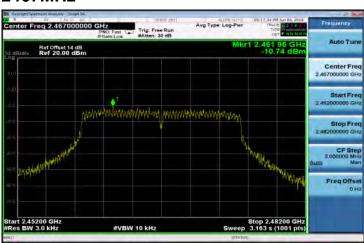
Power Spectral Density Test Plot (CH-Mid)



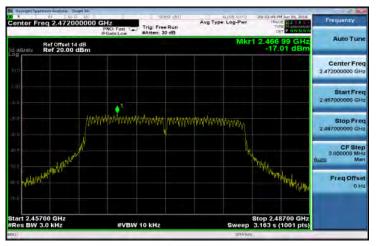
Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2467MHz



Power Spectral Density Test Plot (CH-High) 2472MHz



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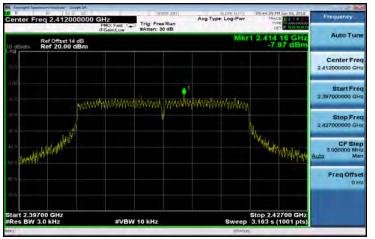
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802.11n HT20

Power Spectral Density Test Plot (CH-Low)



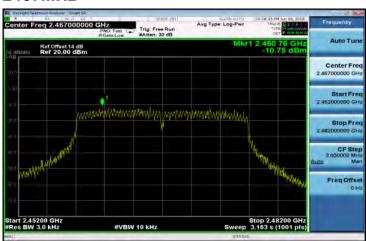
Power Spectral Density Test Plot (CH-Mid)



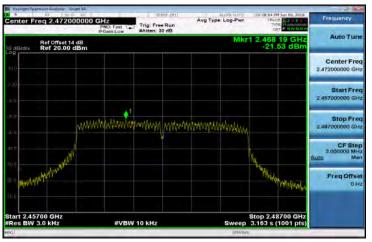
Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2467MHz



Power Spectral Density Test Plot (CH-High) 2472MHz



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802.11n HT40

Power Spectral Density Test Plot (CH-Low)



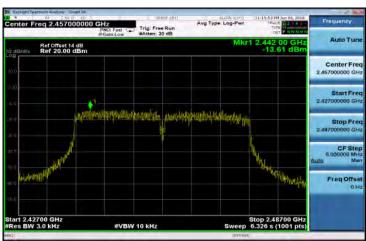
Power Spectral Density Test Plot (CH-Mid)



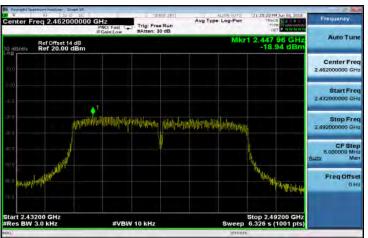
Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2457MHz



Power Spectral Density Test Plot (CH-High) 2462MHz



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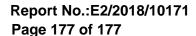
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13 ANTENNA REQUIREMENT

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.

Antenna Connected Construction 13.2

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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