

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 247 CLASS II & IV PC REPORT

OF

Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)

Product Name: WLAN and BT, 2x2 PCIe M.2 2230 adapter card

Brand Name: 

Model No.: 9560NGW

Model Difference: N/A

FCC ID: HLZ9560NG

IC: 1754F-9560NG

Report Number: E2/2018/60058

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Aug. 03, 2018

Date of Test: Jul. 23, 2018

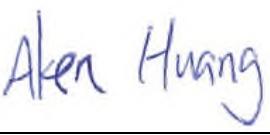
Date of EUT Received: Jun. 29, 2018

We hereby certify that:

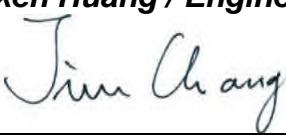
The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested 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.

Prepared By:


Aken Huang / Engineer

Approved By:


Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/60058	Rev.00	Initial creation of document	All	Aug. 03, 2018	Elle Chang

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Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	7
3	SUMMARY OF TEST RESULTS.....	9
4	DESCRIPTION OF TEST MODES	9
5	MEASUREMENT UNCERTAINTY	11
6	PEAK OUTPUT POWER MEASUREMENT.....	12
7	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT.....	19
8	ANTENNA REQUIREMENT	62

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1 GENERAL INFORMATION

1.1 Product description

General Information of Host:

Product Name of Host:	Notebook Computer	
Brand Name:		
Marketing Name of Host:	SF314-55, SF314-55G	
Model No. of Host:	N18P1	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Model No. of BT/WLAN Module:	9560NGW	
Module FCC ID:	HLZ9560NG	
Module IC:	1754F-9560NG	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.	
Class II & Class IV Permissive change:	WLAN and BT, 2x2 PCIe M.2 2230 adapter card INSTALLED IN Notebook Computer	
Power Supply:	15.2Vdc from Rechargeable Li-ion Battery Pack or 19V by AC/DC Power Adapter	
	Battery:	Model No.: AC14B8, Supplier: LG
	Adapter:	Model No.: A11-065N1A, Supplier: Chicony

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Peak) / EIRP	Modulation Technology	Type of Emission
11b/g	2412-2472	11	b: 17.45dBm b: 15.77dBm (EIRP) g: 19.57dBm g: 15.73dBm (EIRP)	DSSS OFDM	b: 14M5D2W g: 25M5D7W
11n (2.4GHz)	HT20 / VHT20 2412-2472	11	HT20: 24.92dBm (MIMO) HT20: 23.09dBm (EIRP)	OFDM	23M4D7W
11n (2.4GHz)	HT40 / VHT40 2422-2462	7	HT40: 23.11dBm (MIMO) HT40: 20.89dBm (EIRP)	OFDM	36M5D7W
Antenna Designation:		PIFA Antenna, Supplier: WNC 1. P/N: 1415-06UL0PB (81EAAL15.GKJ), Gain: 0.61dBi (Main) 2. P/N: 1415-06UL0PB (81EAAL15.GKY), Gain: 0.30dBi (Aux)			
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 DTS Meas. Guidance

FCC KDB 662911 D01 Multiple Transmitter Output

Canada RSS-247 issue 2: 2017

RSS-Gen Issue 4:2014

ANSI C63.10:2013

Note:

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Number and Designation number are: 735305 / TW0002

Canada Registration Number: 4620E-1

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed. 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 placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



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

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 (2)	Peak Output Power	Compliant
§15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.203 §15.247(b)	-	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	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		

7 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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RADIATED EMISSION TEST:

RADIATED BAND EDGE EMISSION TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 11, 12, 13	DSSS	1	2TX
802.11g	1 to 13	1, 11, 12, 13	OFDM	6	2TX
802.11n (HT20)	1 to 13	1, 11, 12, 13	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 11	3, 9, 10, 11	OFDM	MCS8	MIMO

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	MODE	MODE	MODE	MODE	MODE
802.11b	1 to 13	7	DSSS	1	2TX

Note:

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

Pre-scanned was done on Antenna Main and Antenna Aux, and Antenna MIMO results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on Antenna MIMO (2.4GHz) to be presented on this test report.

Remark:

The device will not operate in 2467/2472 MHz for 20MHz BW & 2457/2462 MHz for 40MHz BW for IC.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 7, 11, 12, 13	DSSS	1	2TX
802.11g	1 to 13	1, 7, 11, 12, 13	OFDM	6	2TX
802.11n (HT20)	1 to 13	1, 7, 11, 12, 13	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 11	3, 7, 9, 10, 11	OFDM	MCS8	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 1.55dB (for Spectrum) +/- 1.42 dB (for Power Meter)
6dB Bandwidth	+/- 123.36 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.55 dB
Peak Power Density	+/- 1.55 dB
99% Power Bandwidth	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	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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6 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable:

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

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from 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.

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/20/2018	06/19/2019
Power Meter	Anritsu	ML2496A	1326001	07/25/2018	07/24/2019
Power Sensor	Anritsu	MA2411B	1315048	07/25/2018	07/24/2019
Power Sensor	Anritsu	MA2411B	1315049	07/25/2018	07/24/2019
Attenuator	Marvelous	MVE2213-10	RF30	12/26/2017	12/25/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
DC Block	PASTER-NACK	PE8210	RF29	12/26/2017	12/25/2018

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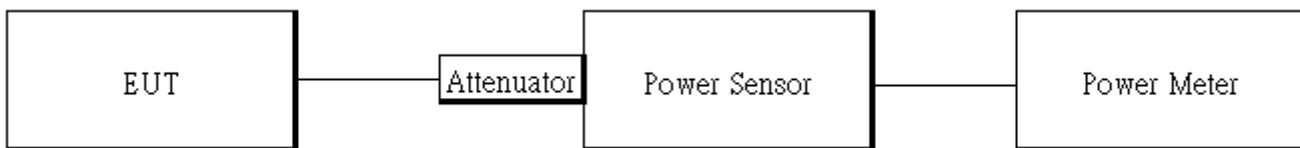
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6.3 Test Set-up:

Power Meter:



6.4 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.
5. For MIMO operation, measurement is done per chain basis, and then sum the simultaneous transmitting output in linear.

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6.5 Measurement Result (Worst Case Data Rate):

802.11b

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit
1	2412	1	17.51	56.36	1 Watt = 30 dBm
7	2442	1	17.48	55.98	1 Watt = 30 dBm
11	2462	1	17.42	55.21	1 Watt = 30 dBm
12	2457	1	17.45	55.59	1 Watt = 30 dBm
13	2472	1	16.91	49.09	1 Watt = 30 dBm

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit
1	2412	1	15.42	34.83	1 Watt = 30 dBm
7	2442	1	15.47	35.24	1 Watt = 30 dBm
11	2462	1	15.43	34.91	1 Watt = 30 dBm
12	2457	1	15.50	35.48	1 Watt = 30 dBm
13	2472	1	14.46	27.93	1 Watt = 30 dBm

802.11g

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit
1	2412	1	19.57	90.57	1 Watt = 30 dBm
7	2442	1	19.53	89.74	1 Watt = 30 dBm
11	2462	1	19.43	87.70	1 Watt = 30 dBm
12	2467	1	18.74	74.82	1 Watt = 30 dBm
13	2472	1	-0.91	0.81	1 Watt = 30 dBm

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit
1	2412	1	15.46	35.16	1 Watt = 30 dBm
7	2442	1	15.43	34.91	1 Watt = 30 dBm
11	2462	1	15.49	35.40	1 Watt = 30 dBm
12	2467	1	13.71	23.50	1 Watt = 30 dBm
13	2472	1	-6.56	0.22	1 Watt = 30 dBm

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802.11n-HT20

CH	Frequency (MHz)	DATA RATE	Peak Outout Power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CHAIN 0	CHAIN 1				
1	2412	MCS8	20.42	21.15	23.81	240.471	30dBm	PASS
7	2442	MCS8	21.32	22.43	24.92	310.504	30dBm	PASS
11	2462	MCS8	20.42	21.41	23.95	248.511	30dBm	PASS
12	2467	MCS8	17.54	18.36	20.98	125.303	30dBm	PASS
13	2472	MCS8	-3.39	-3.04	-0.20	0.955	30dBm	PASS

CH	Frequency (MHz)	DATA RATE	Avg. Outout Power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CHAIN 0	CHAIN 1				
1	2412	MCS8	14.66	15.23	18.71	62.584	30dBm	PASS
7	2442	MCS8	15.98	15.43	20.28	74.542	30dBm	PASS
11	2462	MCS8	14.53	15.46	18.78	63.535	30dBm	PASS
12	2467	MCS8	11.61	12.34	15.75	31.627	30dBm	PASS
13	2472	MCS8	-9.02	-8.81	-5.15	0.257	30dBm	PASS

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802.11n_HT40

CH	Frequency (MHz)	DATA RATE	Peak Outout Power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CHAIN 0	CHAIN 1				
3	2422	MCS8	18.87	19.79	22.36	172.370	30 dBm	PASS
7	2442	MCS8	19.64	20.51	23.11	204.505	30 dBm	PASS
9	2452	MCS8	18.83	19.84	22.37	172.766	30 dBm	PASS
10	2457	MCS8	16.12	16.24	19.19	82.999	30 dBm	PASS
11	2462	MCS8	9.13	10.66	12.97	19.826	30 dBm	PASS

CH	Frequency (MHz)	DATA RATE	Avg. Outout Power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CHAIN 0	CHAIN 1				
3	2422	MCS8	12.52	13.38	16.77	39.642	30 dBm	PASS
7	2442	MCS8	13.06	13.84	17.27	44.440	30 dBm	PASS
9	2452	MCS8	12.52	13.46	16.82	40.047	30 dBm	PASS
10	2457	MCS8	8.73	8.86	12.60	15.156	30 dBm	PASS
11	2462	MCS8	0.78	1.87	5.16	2.735	30 dBm	PASS

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

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EIRP Measurement:
802.11b

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	15.42	34.834	0.3	15.72	36	PASS
7	2442	15.47	35.237	0.3	15.77	36	PASS
11	2462	15.43	34.914	0.3	15.73	36	PASS
12	2457	15.50	35.481	0.3	15.80	36	PASS
13	2472	14.46	27.925	0.3	14.76	36	PASS

802.11g

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	15.46	35.156	0.3	15.76	36	PASS
7	2442	15.43	34.914	0.3	15.73	36	PASS
11	2462	15.49	35.400	0.3	15.79	36	PASS
12	2467	13.71	23.496	0.3	14.01	36	PASS
13	2472	-6.56	0.221	0.3	-6.26	36	PASS

802.11n_HT20 (MIMO)

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	18.71	74.302	3.62	22.33	36	PASS
7	2442	19.47	88.512	3.62	23.09	36	PASS
11	2462	18.78	75.509	3.62	22.40	36	PASS
12	2467	15.75	37.584	3.62	19.37	36	PASS
13	2472	-5.15	0.305	3.62	-1.53	36	PASS

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802.11n_HT40 (MIMO)

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
3	2422	16.77	47.534	3.62	20.39	36	PASS
7	2442	17.27	53.333	3.62	20.89	36	PASS
9	2452	16.82	48.084	3.62	20.44	36	PASS
10	2457	12.60	18.197	3.62	16.22	36	PASS
11	2462	5.16	3.281	3.62	8.78	36	PASS

Note: EIRP = Average Power + Gain, where the nominal gain of the antenna 3.62dBi for 2.4GHz (MIMO), where MIMO gain = directive gain + nominal gain.

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable:

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

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

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

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7.2 Measurement Equipment Used:

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Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/04/2018	01/03/2019
EMI Test Receiver	R&S	ESU 40	100363	04/11/2018	04/10/2019
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/26/2017	12/25/2018
Attenuator	Marvelous	WATT-218FS-10	RF246	12/26/2017	12/25/2018
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/26/2017	12/25/2018
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/26/2017	12/25/2018

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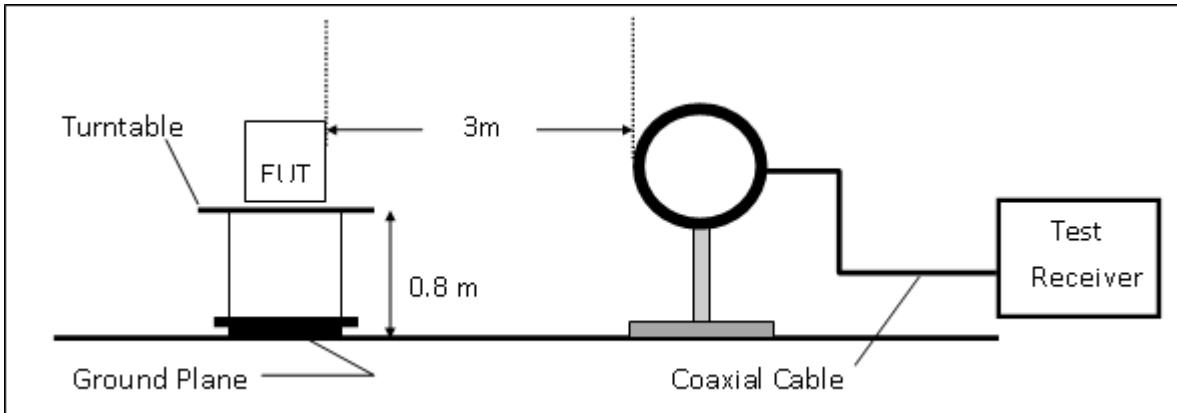
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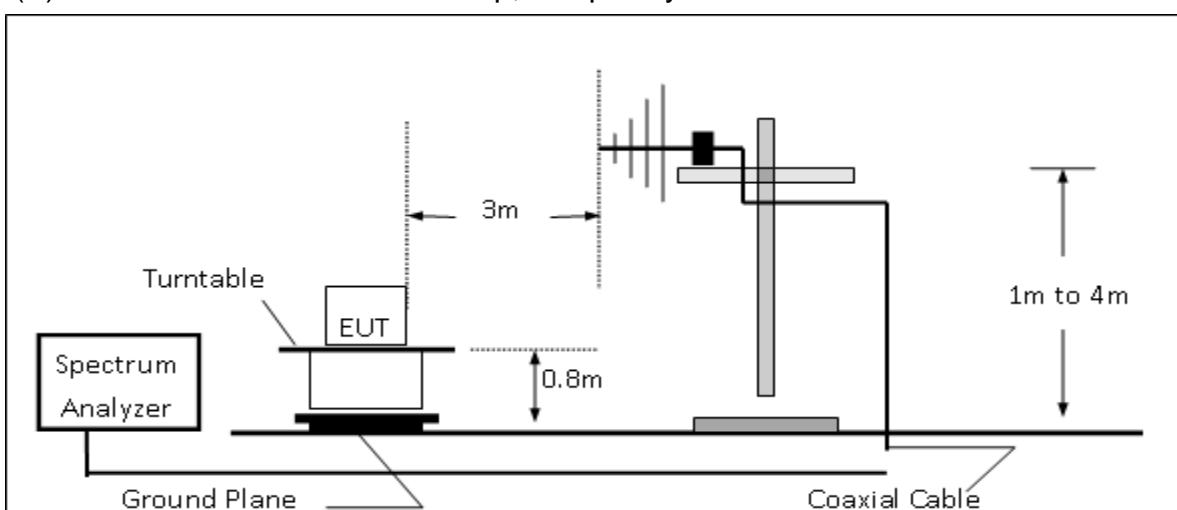
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7.3 Test SET-UP:

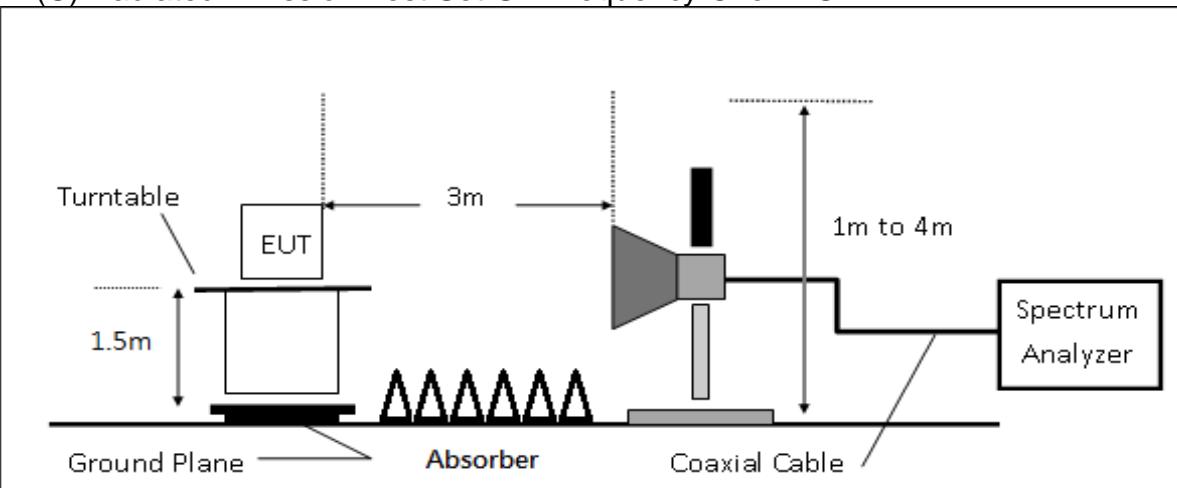
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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7.4 Measurement Procedure:

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

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7.5 Field Strength Calculation:

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

$$FS = RA + AF + CL - AG$$

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

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

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

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

7.7 Measurement Result:

Note: Refer to next page tabular data sheets.

Note: There is a comparison data of both open-field test site and semi-Anechoic, and test result came out very similar.

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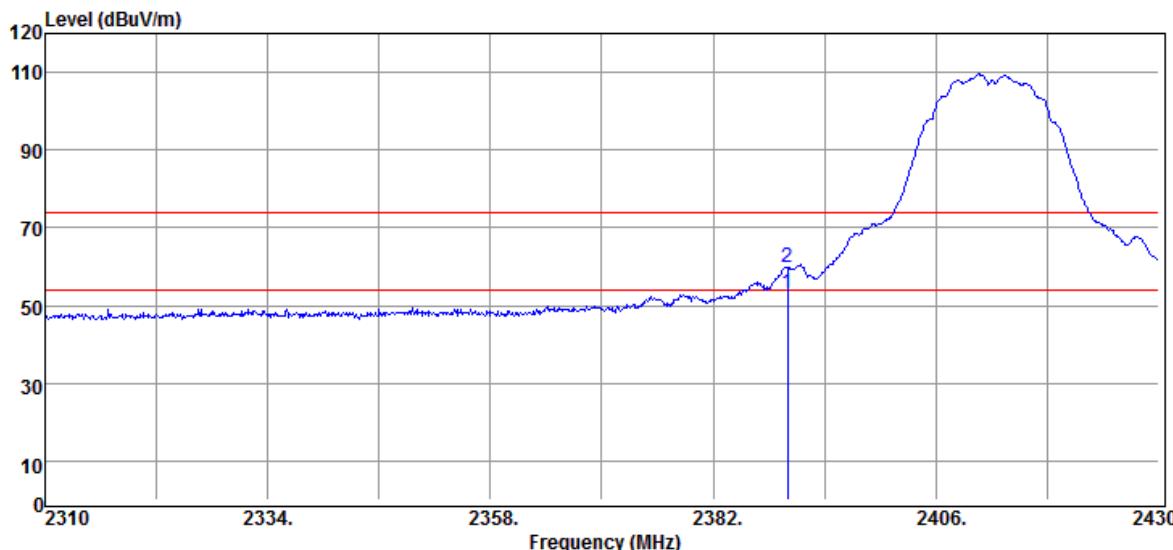
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Radiated Band Edge Measurement Result: 802.11 b mode

Operation Mode	:802.11b Aux	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



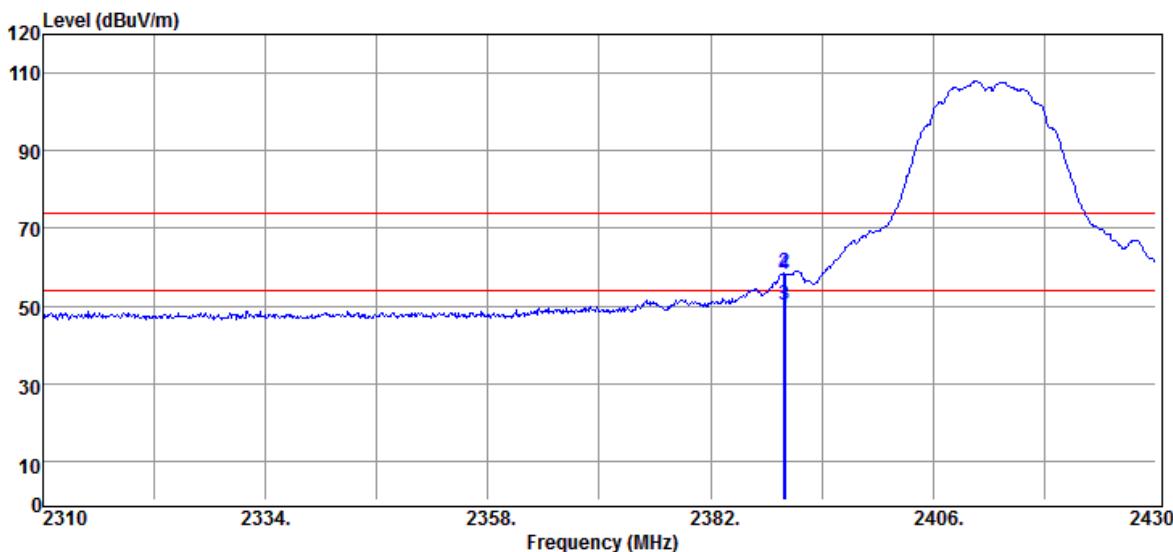
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2390.00	Average	49.59	3.39	52.98	54.00	-1.02
2390.00	Peak	56.57	3.39	59.96	74.00	-14.04

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Operation Mode	:802.11b Aux	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



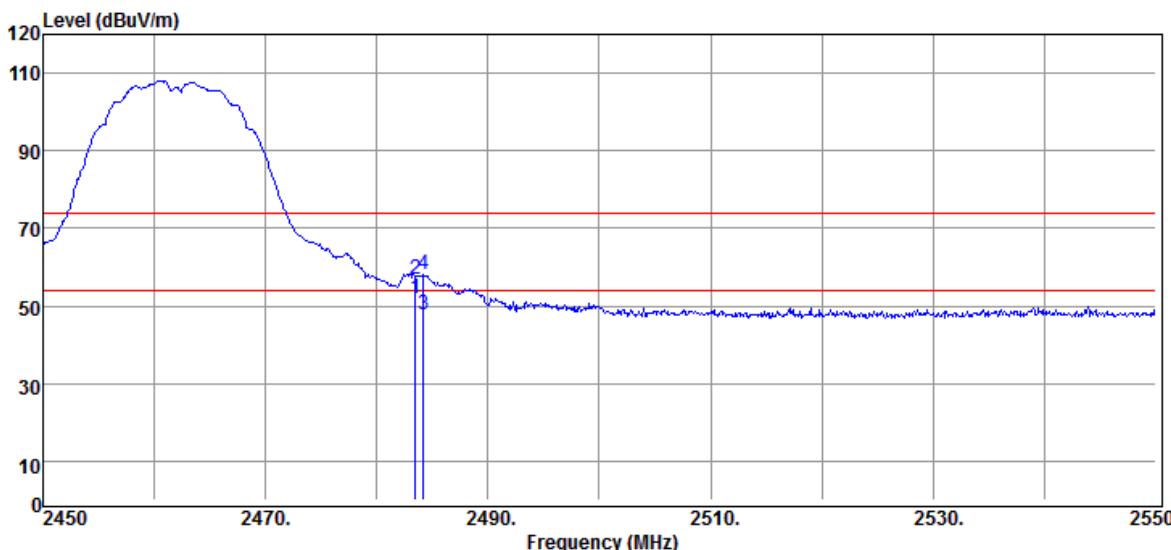
Freq. MHz	Detector Mode	Spectrum Reading Level dB _μ V	Factor dB	Actual	Limit	Margin
				FS dB _μ V/m	@3m dB _μ V/m	dB
2389.92	Average	46.06	3.39	49.45	54.00	-4.55
2389.92	Peak	54.97	3.39	58.36	74.00	-15.64
2390.00	Average	46.72	3.39	50.11	54.00	-3.89
2390.00	Peak	54.78	3.39	58.17	74.00	-15.83

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Operation Mode	:802.11b Aux	Test Date	:2018-06-20
Test Mode	:BE CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



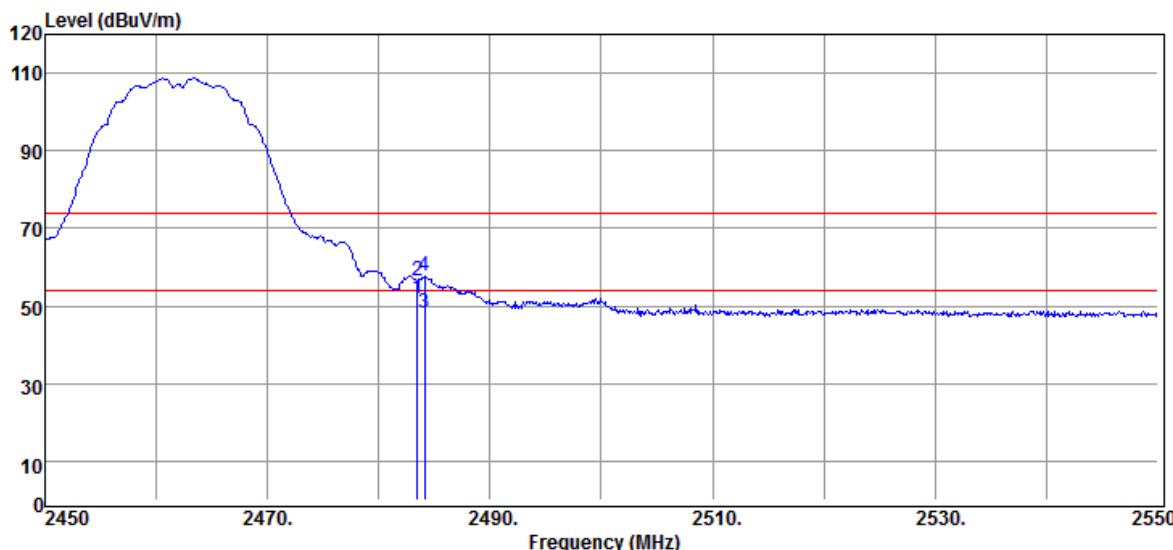
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2483.50	Average	48.10	3.96	52.06	54.00	-1.94
2483.50	Peak	53.02	3.96	56.98	74.00	-17.02
2484.20	Average	43.71	3.96	47.67	54.00	-6.33
2484.20	Peak	54.05	3.96	58.01	74.00	-15.99

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Operation Mode	:802.11b Aux	Test Date	:2018-06-20
Test Mode	:BE CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



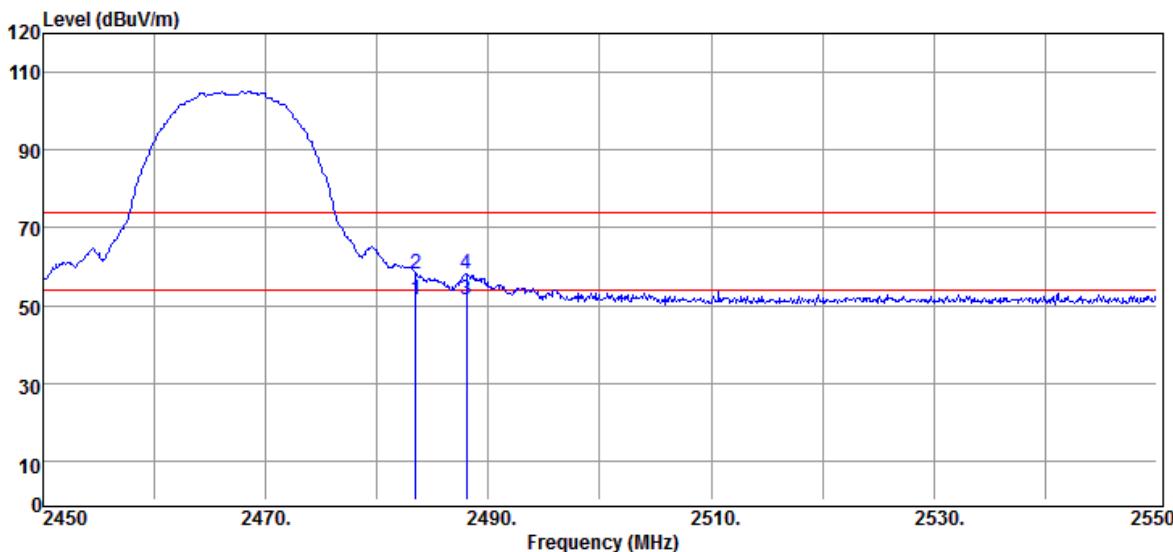
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2483.50	Average	47.75	3.96	51.71	54.00	-2.29
2483.50	Peak	52.60	3.96	56.56	74.00	-17.44
2484.10	Average	44.17	3.96	48.13	54.00	-5.87
2484.10	Peak	53.68	3.96	57.64	74.00	-16.36

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Operation Mode	:802.11b	Test Date	:2018-07-23
Test Mode	:BE CH 12	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2467 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
MHz	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	47.64	3.96	51.60	54.00	-2.40
2483.50	Peak	54.28	3.96	58.24	74.00	-15.76
2488.00	Average	47.59	3.99	51.58	54.00	-2.42
2488.00	Peak	54.18	3.99	58.17	74.00	-15.83

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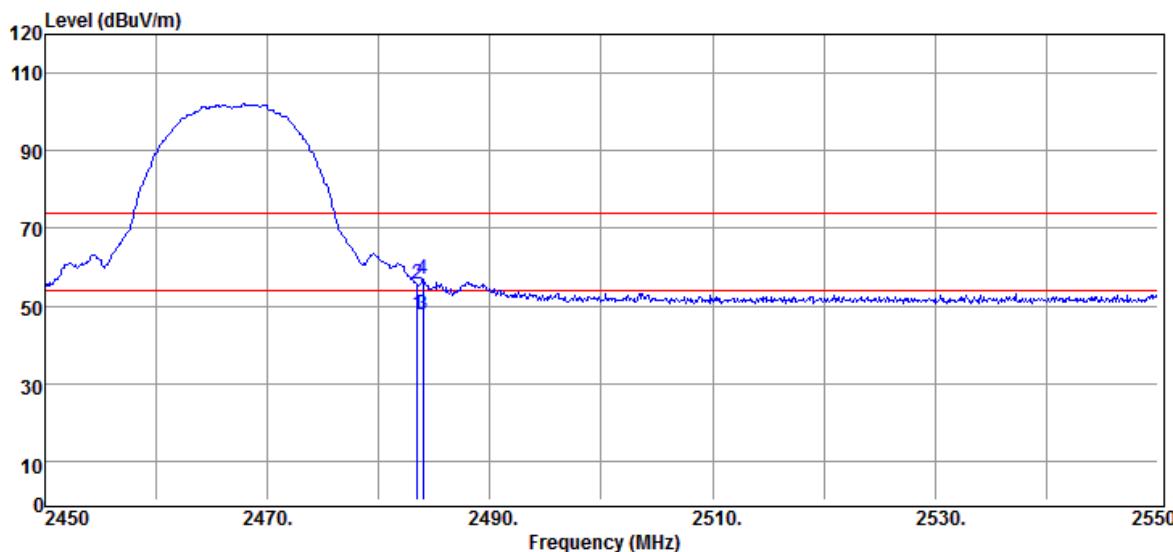
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Operation Mode :802.11b
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
		PK/QP/AV	Reading dB μ V				
2483.50	Average	43.95	3.96	47.91	54.00	-6.09	
2483.50	Peak	51.84	3.96	55.80	74.00	-18.20	
2484.00	Average	43.85	3.96	47.81	54.00	-6.19	
2484.00	Peak	52.93	3.96	56.89	74.00	-17.11	

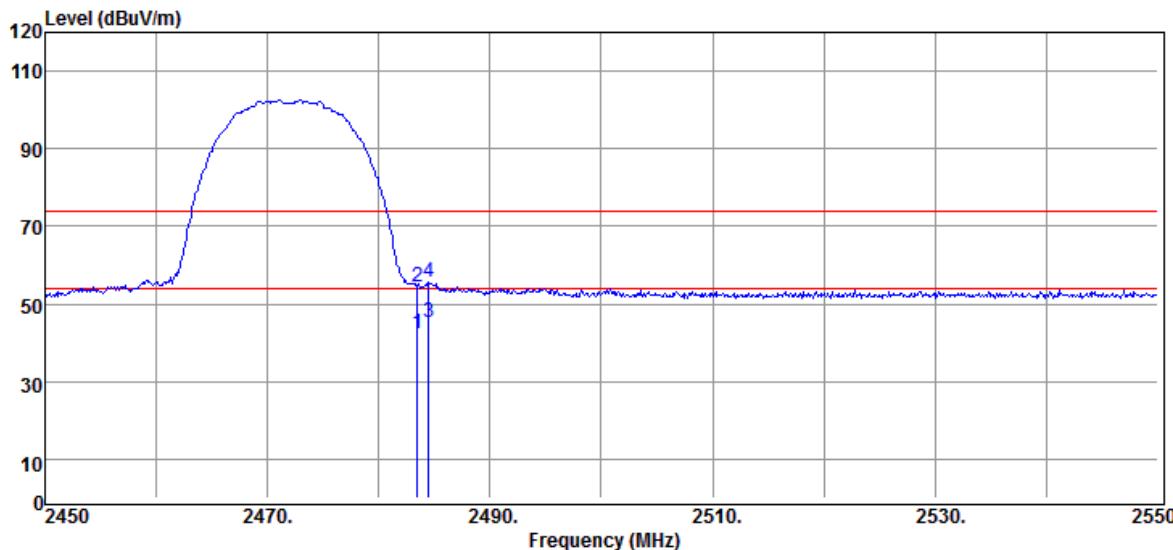
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Operation Mode :802.11b
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB μ V/m	dB
2483.50	Average	38.45	3.96	42.41	54.00	-11.59
2483.50	Peak	50.45	3.96	54.41	74.00	-19.59
2484.50	Average	41.44	3.96	45.40	54.00	-8.60
2484.50	Peak	51.86	3.96	55.82	74.00	-18.18

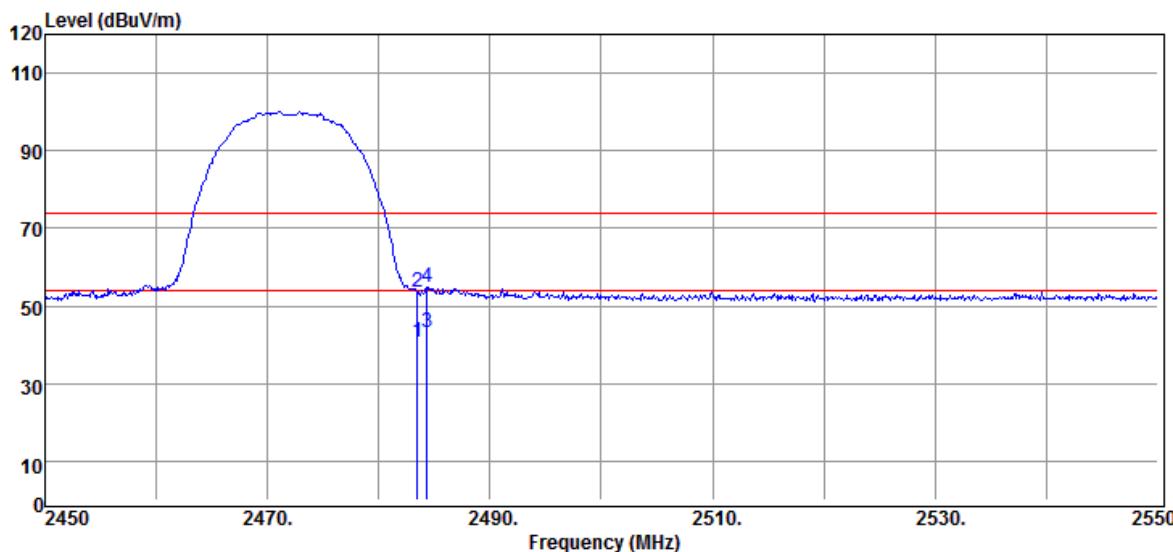
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Operation Mode :802.11b
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
						dB
2483.50	Average	36.91	3.96	40.87	54.00	-13.13
2483.50	Peak	49.52	3.96	53.48	74.00	-20.52
2484.30	Average	39.33	3.96	43.29	54.00	-10.71
2484.30	Peak	50.90	3.96	54.86	74.00	-19.14

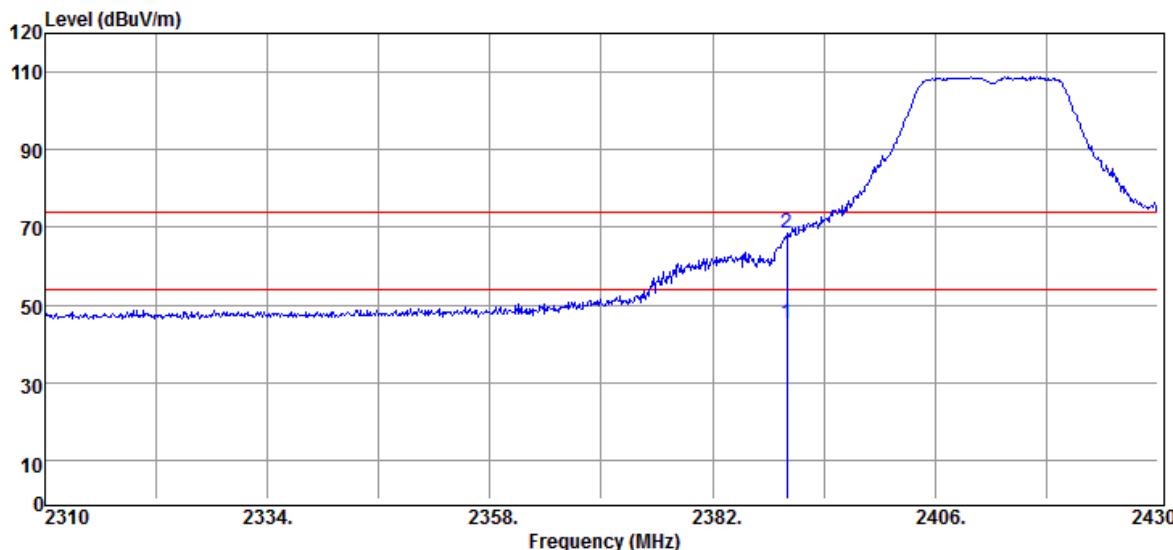
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Radiated Band Edge Measurement Result (802.11 g mode)

Operation Mode	:802.11g Main	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Ashton



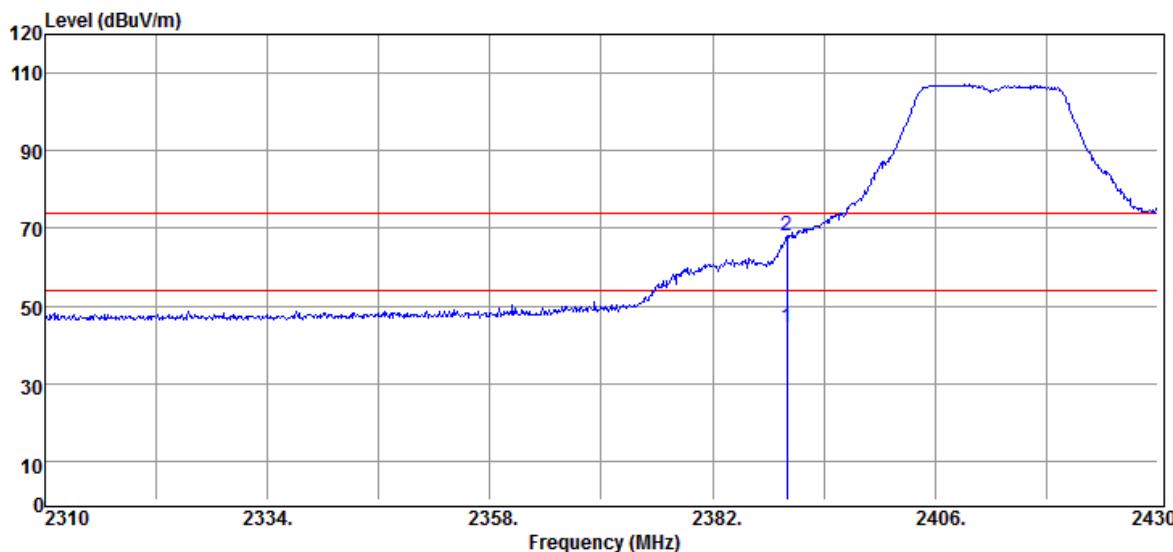
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	42.03	3.39	45.42	54.00	-8.58
2390.00	Peak	65.05	3.39	68.44	74.00	-5.56

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Operation Mode	:802.11g Main	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	41.20	3.39	44.59	54.00	-9.41
2390.00	Peak	64.69	3.39	68.08	74.00	-5.92

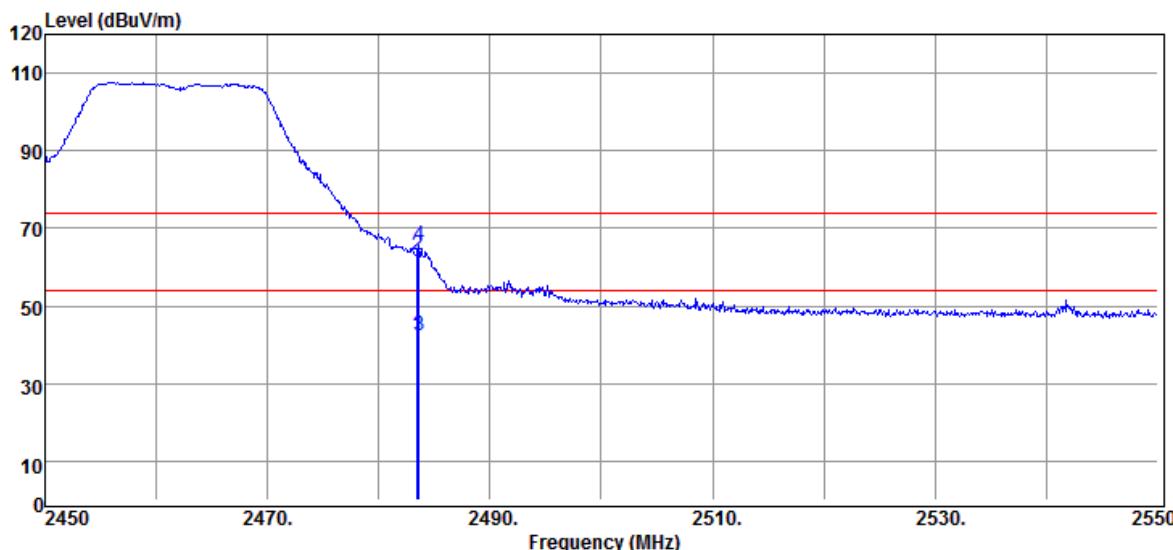
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Operation Mode :802.11g Main
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	38.25	3.96	42.21	54.00	-11.79
2483.50	Peak	59.08	3.96	63.04	74.00	-10.96
2483.60	Average	38.59	3.96	42.55	54.00	-11.45
2483.60	Peak	61.59	3.96	65.55	74.00	-8.45

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

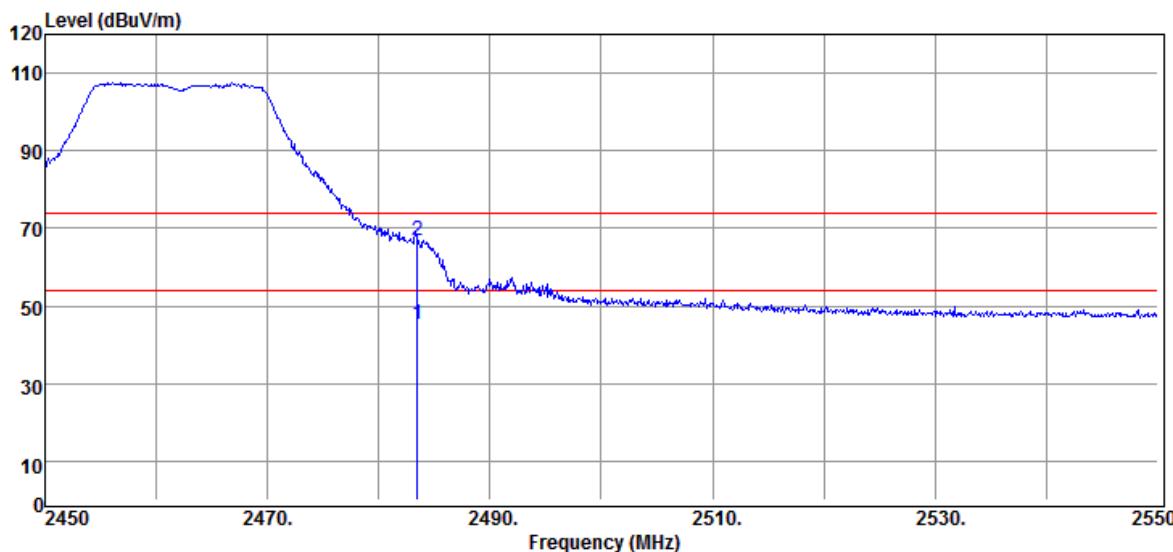
f (886-2) 2298-0488

www.tw.sgs.com

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

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	41.46	3.96	45.42	54.00	-8.58
2483.50	Peak	62.90	3.96	66.86	74.00	-7.14

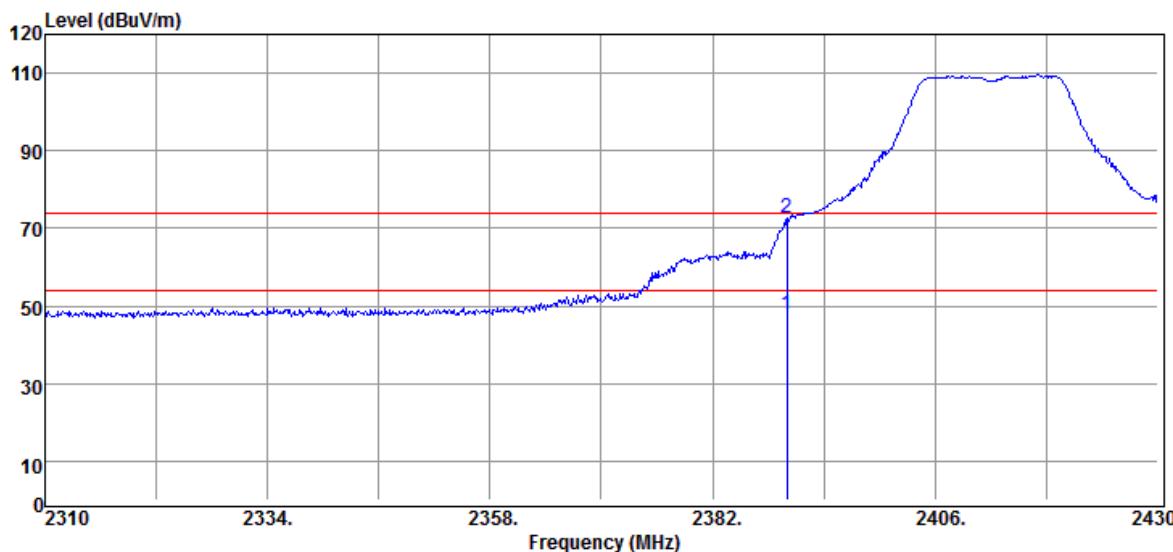
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Operation Mode :802.11g Aux
Test Mode :BE CH LOW
EUT Pol :H Plan
Test Channel :2412 MHz

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.49	3.39	47.88	54.00	-6.12
2390.00	Peak	69.41	3.39	72.80	74.00	-1.20

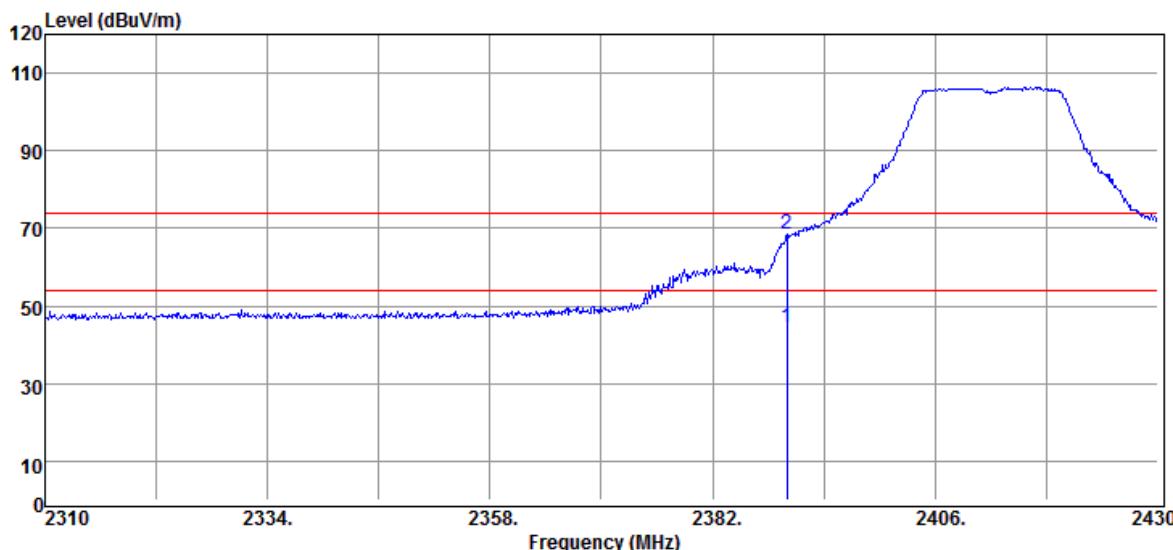
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Operation Mode :802.11g Aux
Test Mode :BE CH LOW
EUT Pol :H Plan
Test Channel :2412 MHz

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	40.95	3.39	44.34	54.00	-9.66
2390.00	Peak	65.16	3.39	68.55	74.00	-5.45

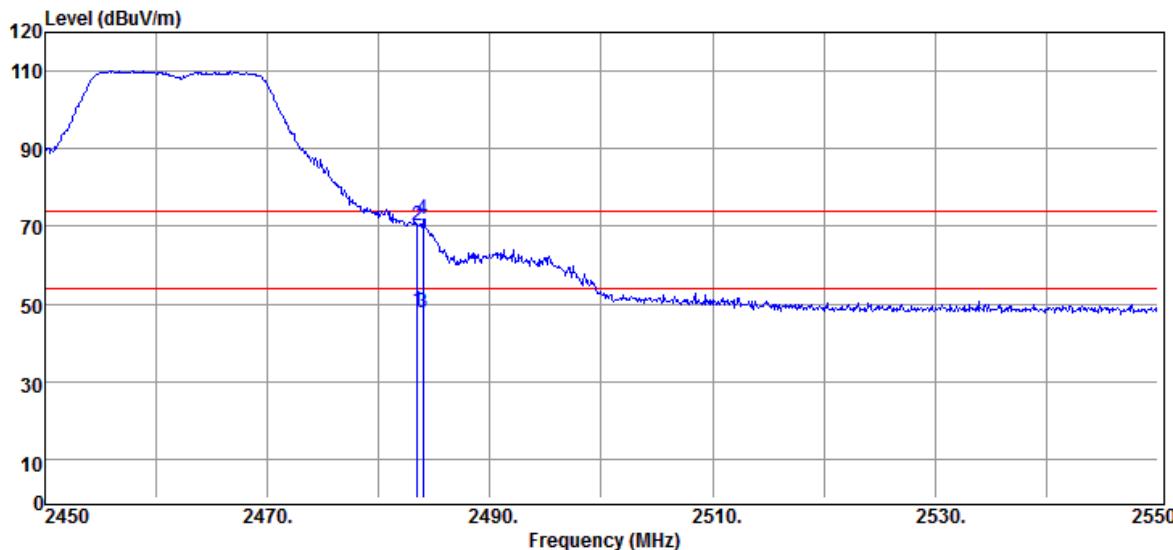
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Operation Mode :802.11g Aux
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



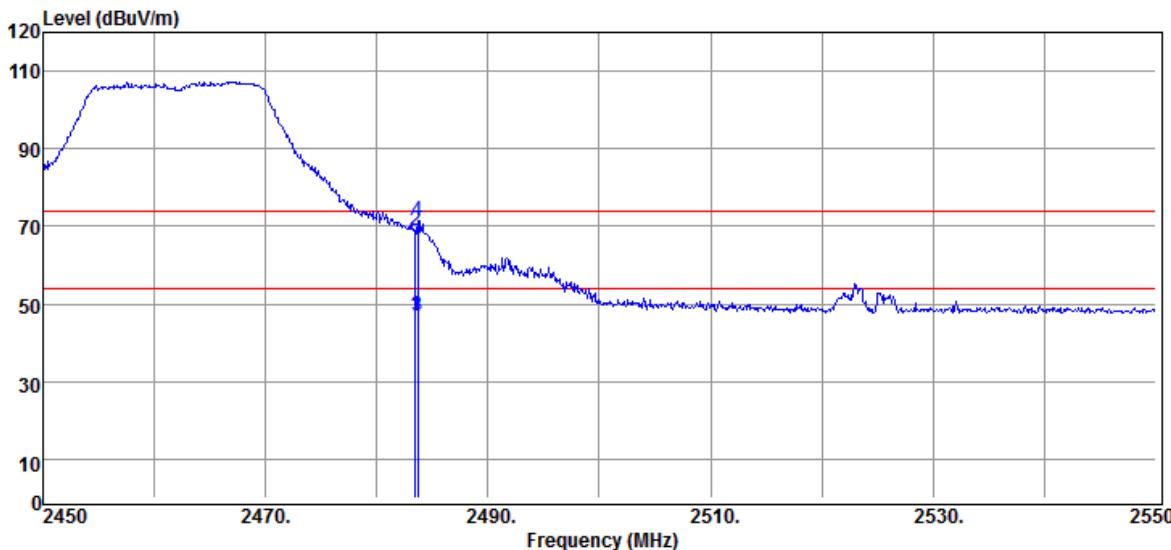
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	44.25	3.96	48.21	54.00	-5.79
2483.50	Peak	66.26	3.96	70.22	74.00	-3.78
2484.00	Average	43.61	3.96	47.57	54.00	-6.43
2484.00	Peak	67.89	3.96	71.85	74.00	-2.15

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Operation Mode	:802.11g Aux	Test Date	:2018-06-20
Test Mode	:BE CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2483.50	Average	43.05	3.96	47.01	54.00	-6.99
2483.50	Peak	64.87	3.96	68.83	74.00	-5.17
2483.70	Average	42.77	3.96	46.73	54.00	-7.27
2483.70	Peak	67.54	3.96	71.50	74.00	-2.50

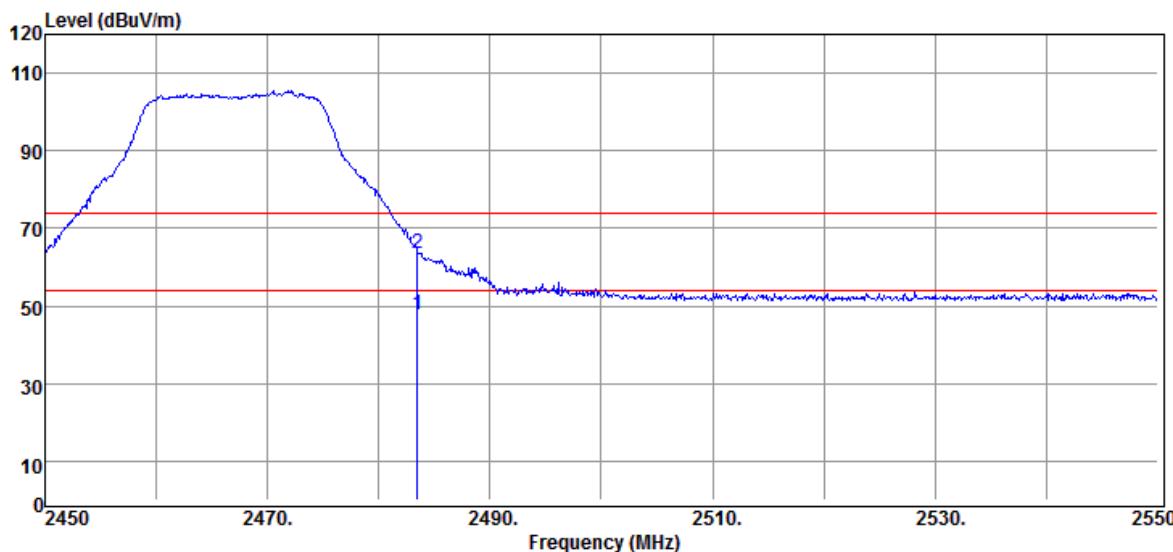
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Operation Mode :802.11g
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	43.75	3.96	47.71	54.00	-6.29
2483.50	Peak	59.57	3.96	63.53	74.00	-10.47

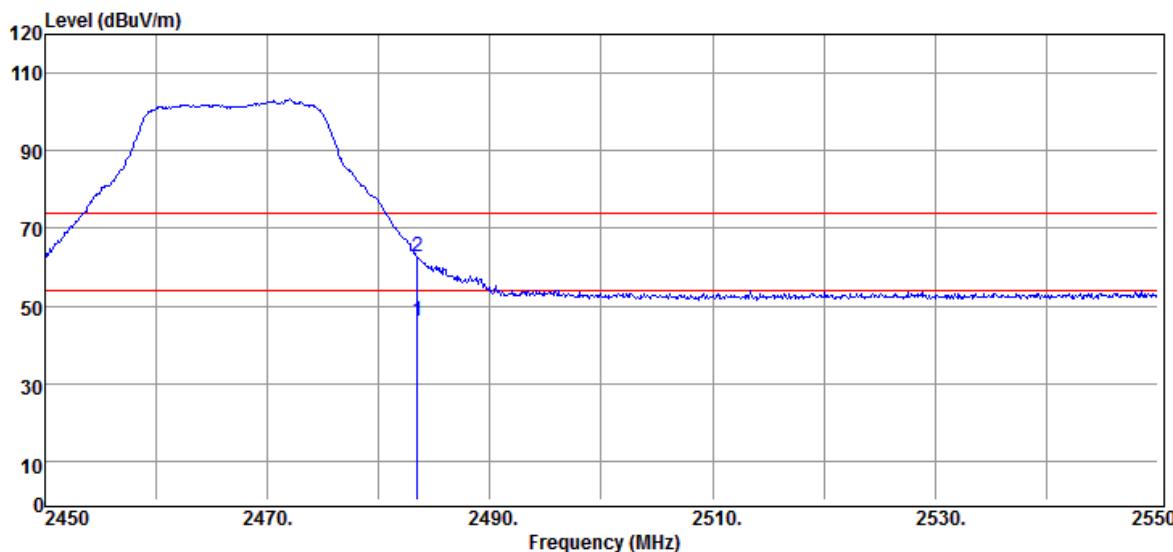
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Operation Mode :802.11g
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB μ V/m	dB
2483.50	Average	41.93	3.96	45.89	54.00	-8.11
2483.50	Peak	58.60	3.96	62.56	74.00	-11.44

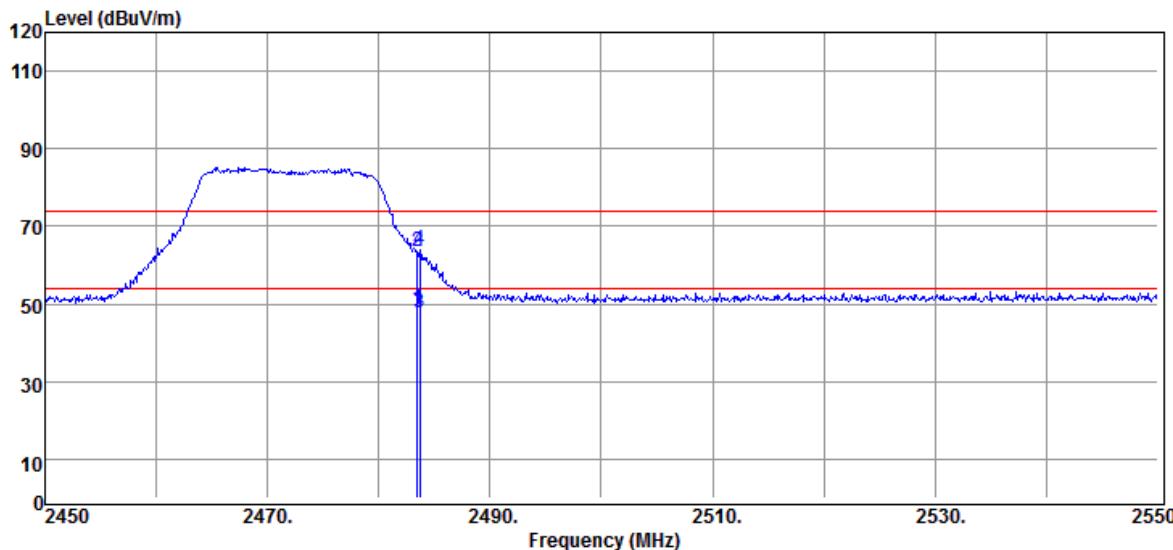
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Operation Mode :802.11g
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



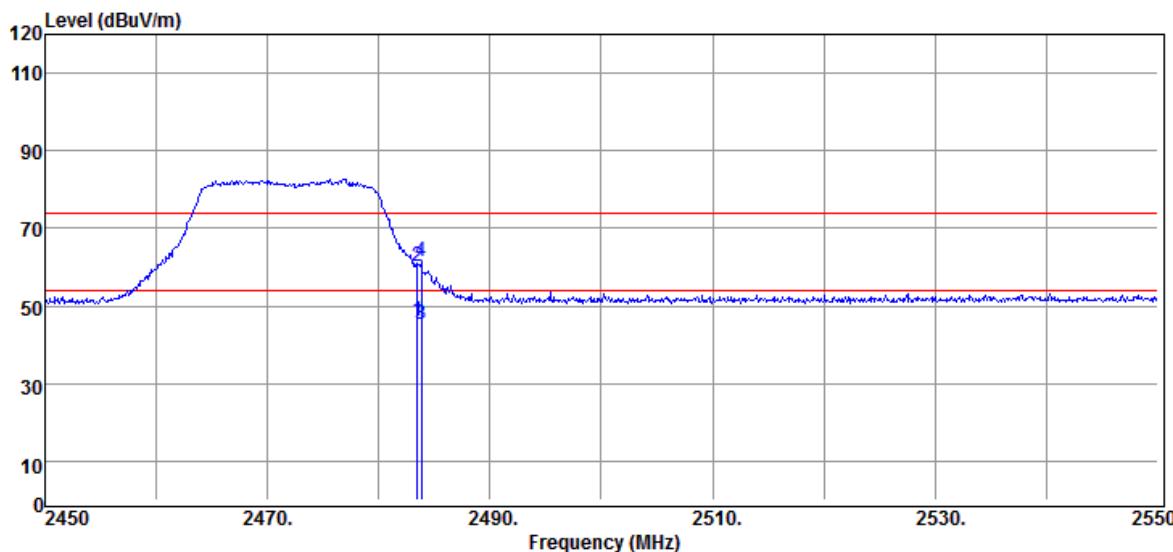
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2483.50	Average	44.58	3.96	48.54	54.00	-5.46
2483.50	Peak	59.48	3.96	63.44	74.00	-10.56
2483.70	Average	43.99	3.96	47.95	54.00	-6.05
2483.70	Peak	59.95	3.96	63.91	74.00	-10.09

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Operation Mode	:802.11g	Test Date	:2018-07-23
Test Mode	:BE CH 13	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2472 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	42.06	3.96	46.02	54.00	-7.98
2483.50	Peak	56.11	3.96	60.07	74.00	-13.93
2483.80	Average	41.35	3.96	45.31	54.00	-8.69
2483.80	Peak	57.44	3.96	61.40	74.00	-12.60

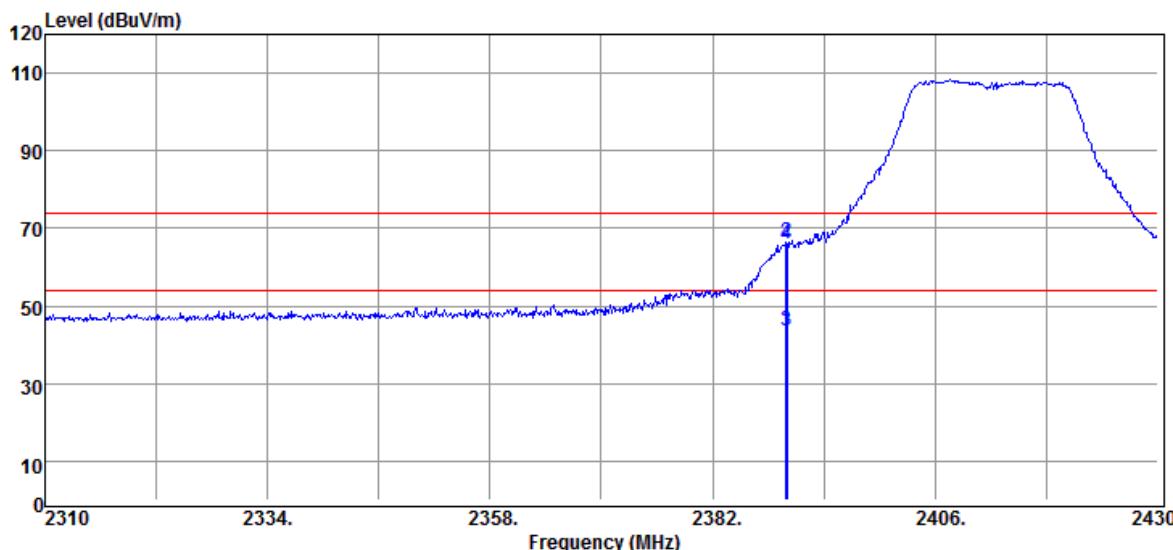
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Radiated Band Edge Measurement Result (802.11n_HT20)

Operation Mode	:802.11n20 MIMO	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



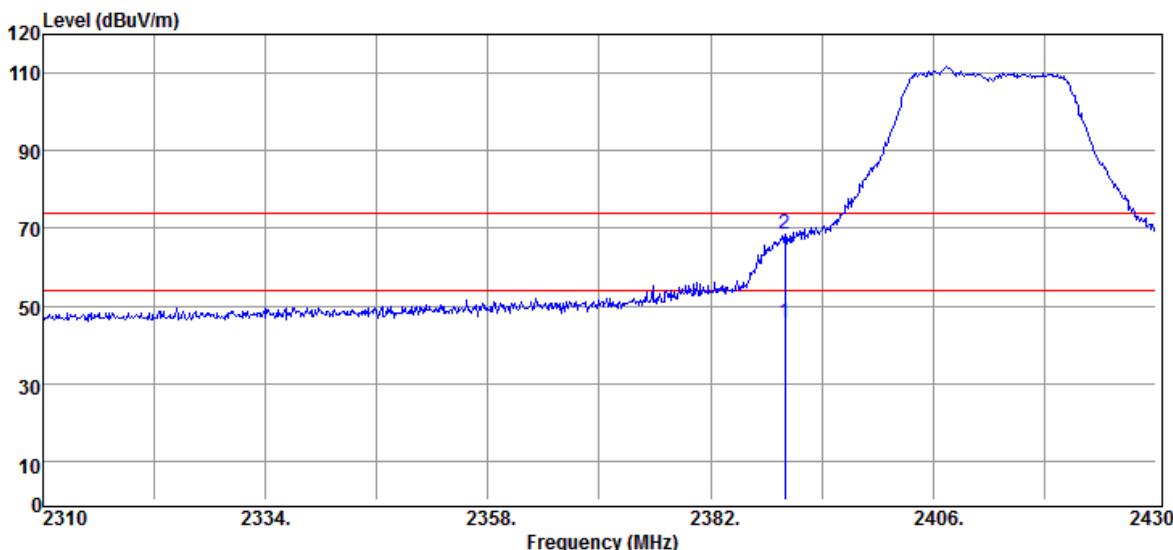
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2389.92	Average	40.08	3.39	43.47	54.00	-10.53
2389.92	Peak	62.97	3.39	66.36	74.00	-7.64
2390.00	Average	40.20	3.39	43.59	54.00	-10.41
2390.00	Peak	62.55	3.39	65.94	74.00	-8.06

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Operation Mode	:802.11n20 MIMO	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2390.00	Average	42.48	3.39	45.87	54.00	-8.13
2390.00	Peak	65.03	3.39	68.42	74.00	-5.58

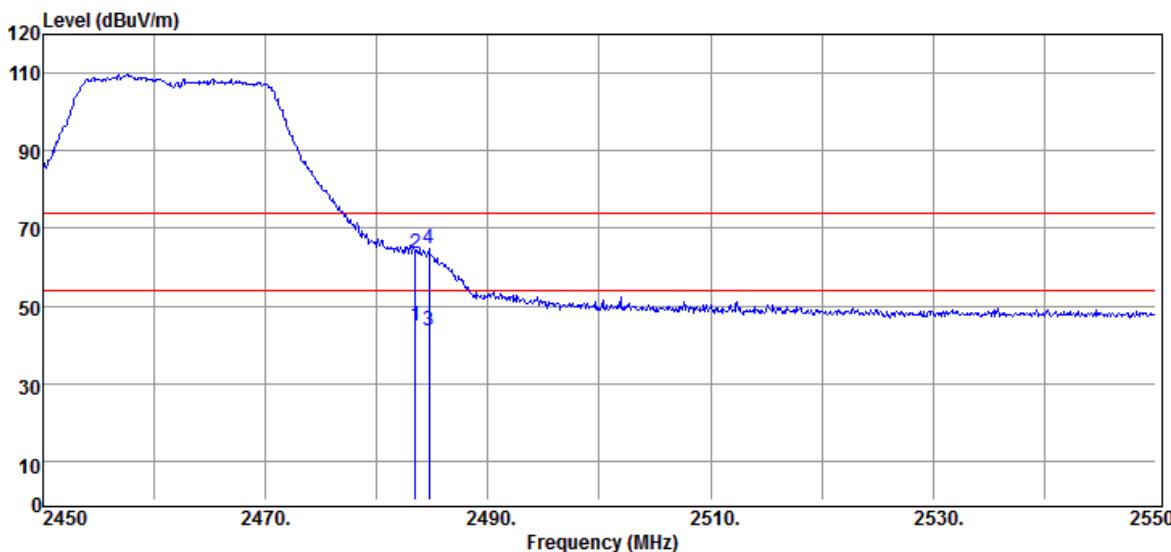
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Operation Mode :802.11n20 MIMO
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Enzo



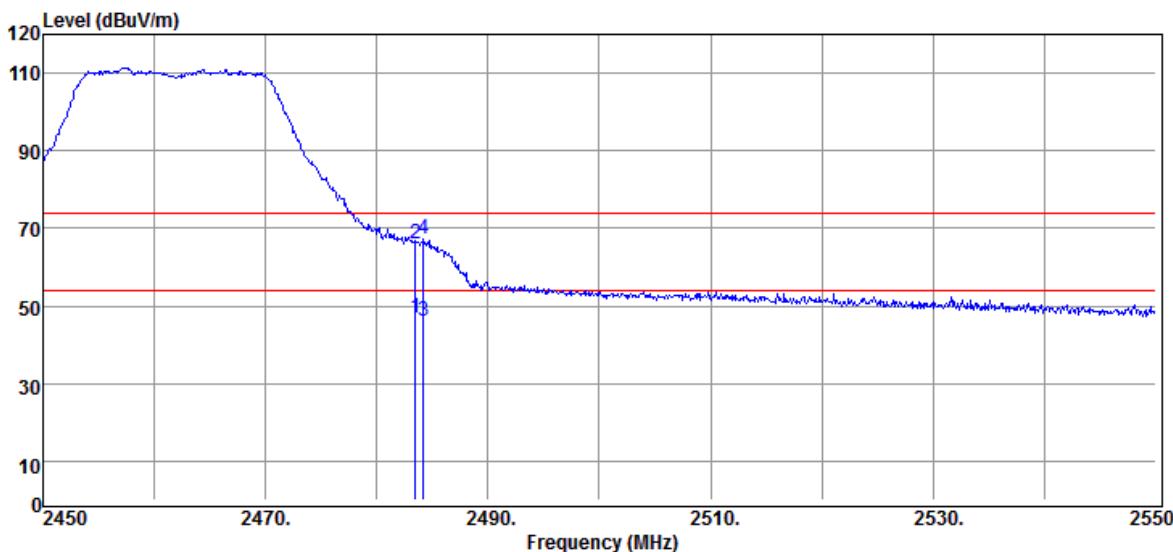
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB μ V/m	dB
2483.50	Average	40.77	3.96	44.73	54.00	-9.27
2483.50	Peak	59.71	3.96	63.67	74.00	-10.33
2484.70	Average	39.72	3.96	43.68	54.00	-10.32
2484.70	Peak	60.99	3.96	64.95	74.00	-9.05

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Operation Mode	:802.11n20 MIMO	Test Date	:2018-06-20
Test Mode	:BE CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	42.95	3.96	46.91	54.00	-7.09
2483.50	Peak	61.89	3.96	65.85	74.00	-8.15
2484.20	Average	42.32	3.96	46.28	54.00	-7.72
2484.20	Peak	63.23	3.96	67.19	74.00	-6.81

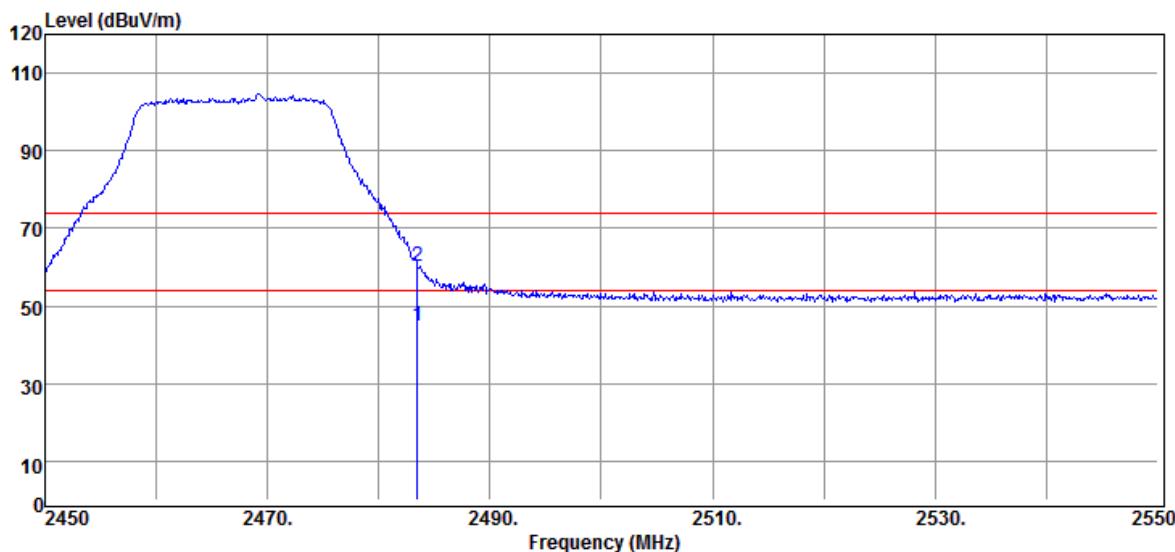
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Operation Mode :802.11n20
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



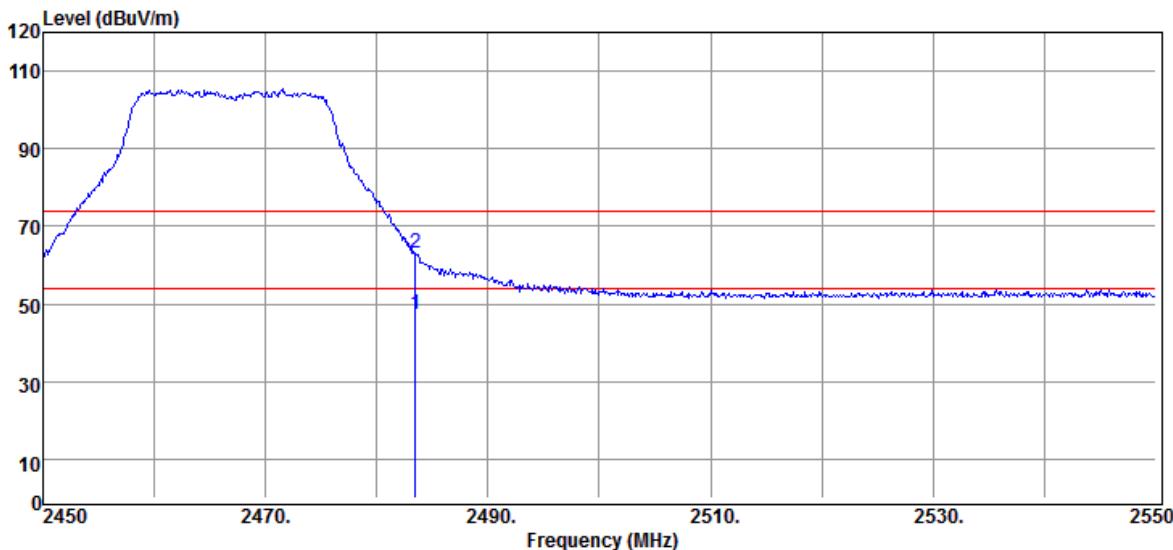
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB μ V/m	dB
2483.50	Average	40.85	3.96	44.81	54.00	-9.19
2483.50	Peak	56.35	3.96	60.31	74.00	-13.69

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Operation Mode	:802.11n20	Test Date	:2018-07-23
Test Mode	:BE CH 12	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2467 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	43.36	3.96	47.32	54.00	-6.68
2483.50	Peak	59.17	3.96	63.13	74.00	-10.87

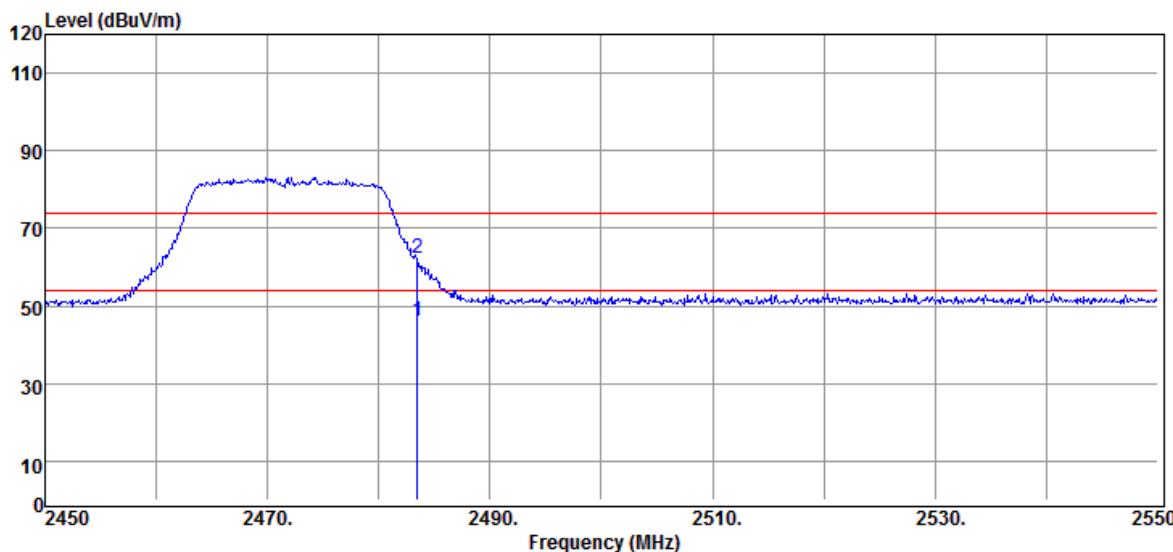
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Operation Mode :802.11n20
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



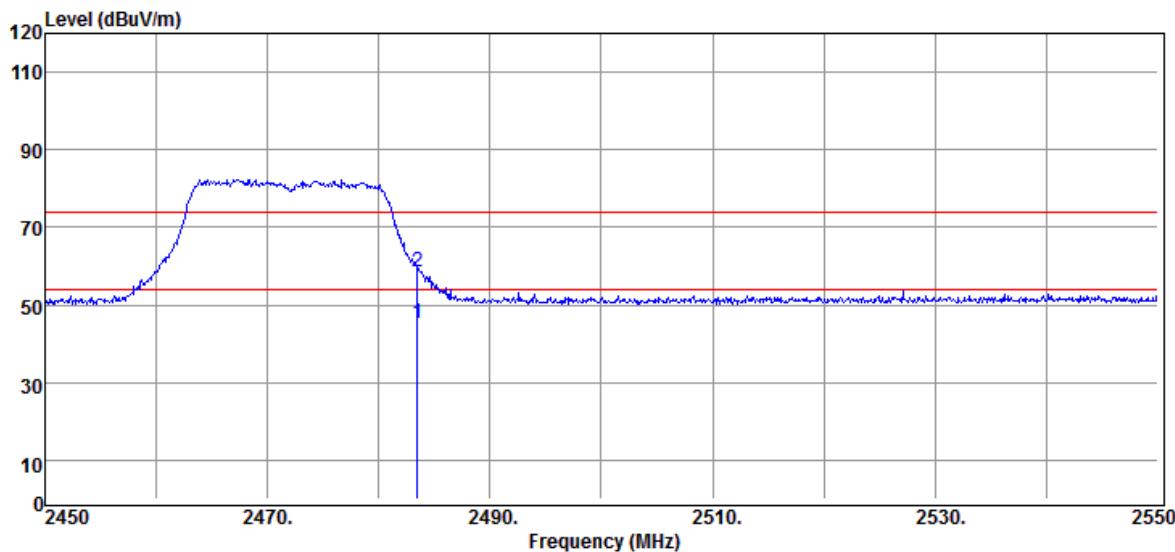
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB μ V/m	dB
2483.50	Average	42.18	3.96	46.14	54.00	-7.86
2483.50	Peak	58.36	3.96	62.32	74.00	-11.68

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Operation Mode	:802.11n20	Test Date	:2018-07-23
Test Mode	:BE CH 13	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2472 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	41.33	3.96	45.29	54.00	-8.71
2483.50	Peak	54.70	3.96	58.66	74.00	-15.34

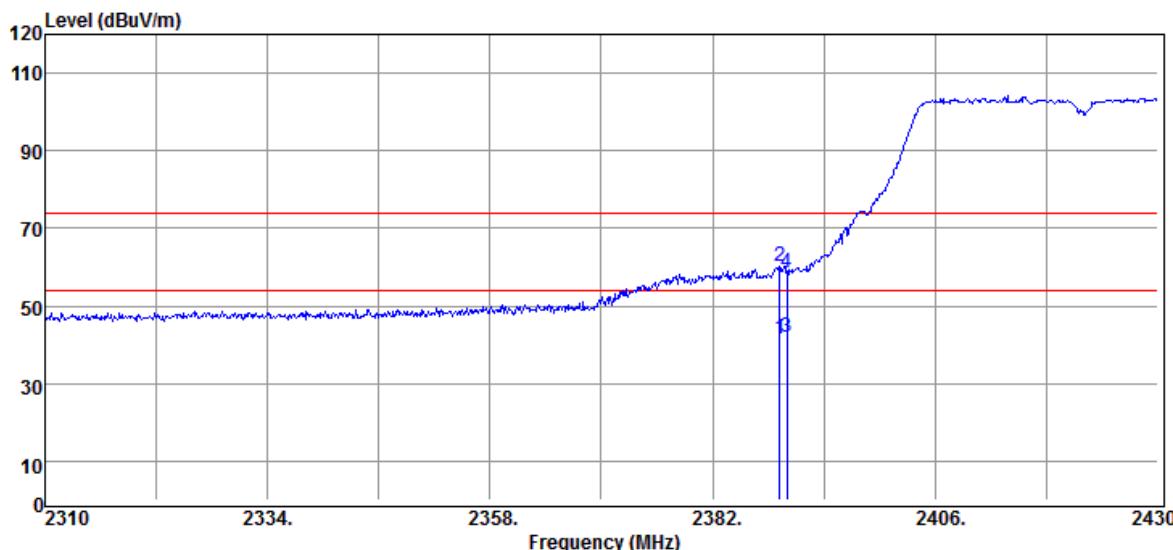
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Radiated Band Edge Measurement Result (802.11n_HT40)

Operation Mode	:802.11n40 MIMO	Test Date	:2018-06-20
Test Mode	:BE CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2422 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB	dB	dB μ V/m	dB μ V/m	dB
2389.20	Average	38.30	3.39	41.69	54.00	-12.31
2389.20	Peak	56.85	3.39	60.24	74.00	-13.76
2390.00	Average	38.45	3.39	41.84	54.00	-12.16
2390.00	Peak	55.18	3.39	58.57	74.00	-15.43

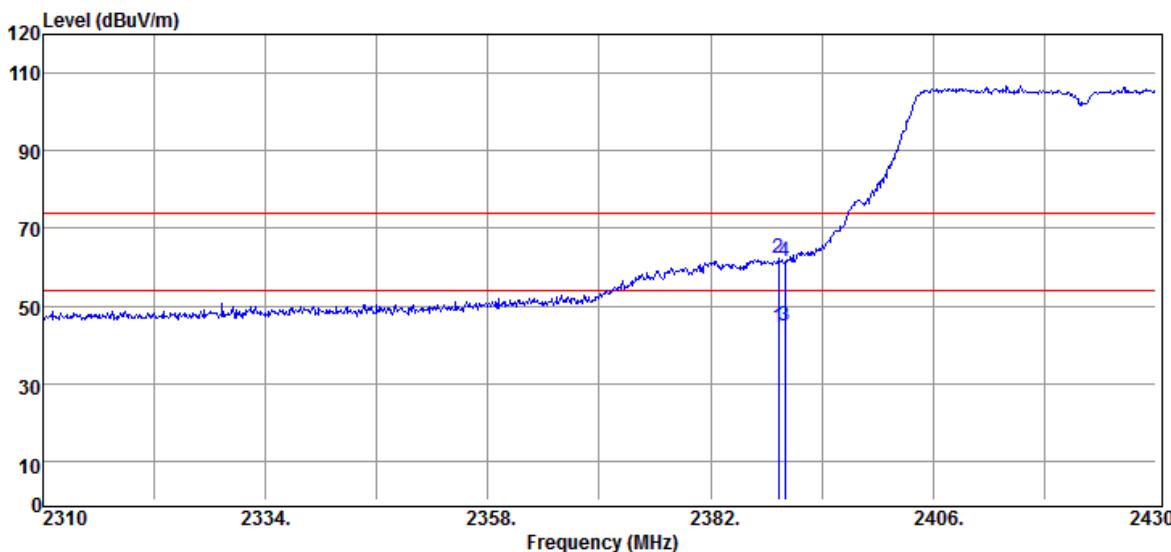
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Operation Mode :802.11n40 MIMO
Test Mode :BE CH LOW
EUT Pol :H Plan
Test Channel :2422 MHz

Test Date :2018-06-20
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



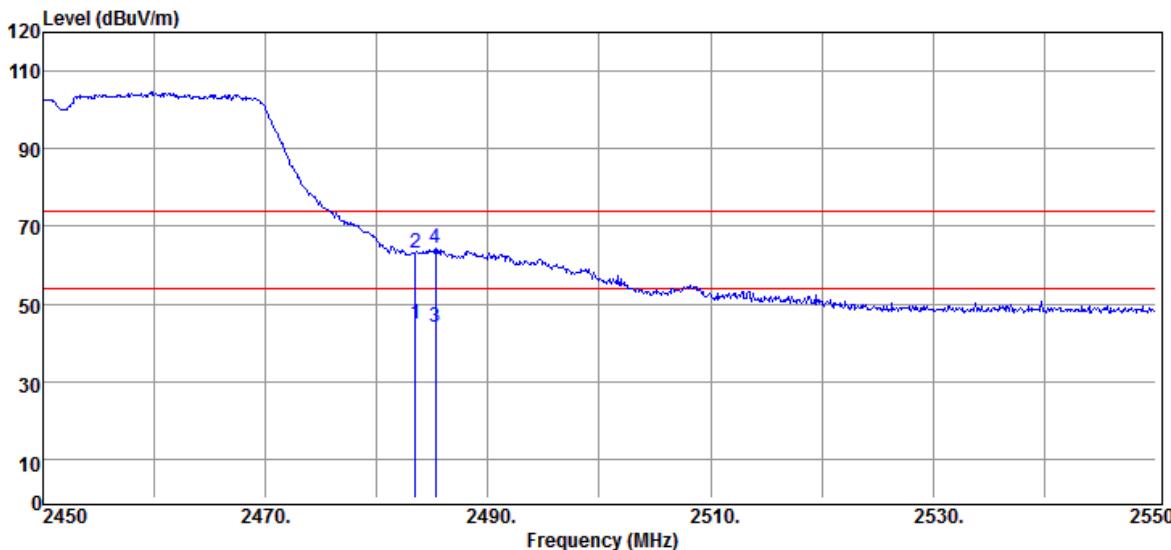
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
						dB
2389.32	Average	40.99	3.39	44.38	54.00	-9.62
2389.32	Peak	59.08	3.39	62.47	74.00	-11.53
2390.00	Average	41.29	3.39	44.68	54.00	-9.32
2390.00	Peak	58.04	3.39	61.43	74.00	-12.57

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Operation Mode	:802.11n40 MIMO	Test Date	:2018-06-20
Test Mode	:BE CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Enzo



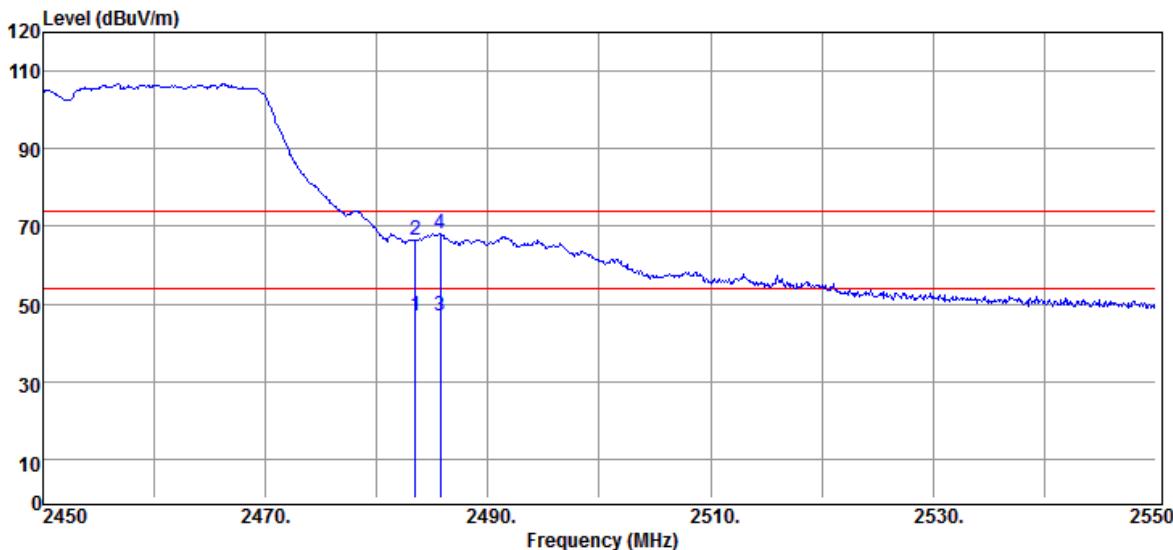
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	40.71	3.96	44.67	54.00	-9.33
2483.50	Peak	59.23	3.96	63.19	74.00	-10.81
2485.30	Average	40.23	3.98	44.21	54.00	-9.79
2485.30	Peak	60.35	3.98	64.33	74.00	-9.67

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Operation Mode	:802.11n40 MIMO	Test Date	:2018-06-20
Test Mode	:BE CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
PK/QP/AV	dB μ V	dB μ V/m				
2483.50	Average	43.15	3.96	47.11	54.00	-6.89
2483.50	Peak	62.53	3.96	66.49	74.00	-7.51
2485.70	Average	42.83	3.98	46.81	54.00	-7.19
2485.70	Peak	64.02	3.98	68.00	74.00	-6.00

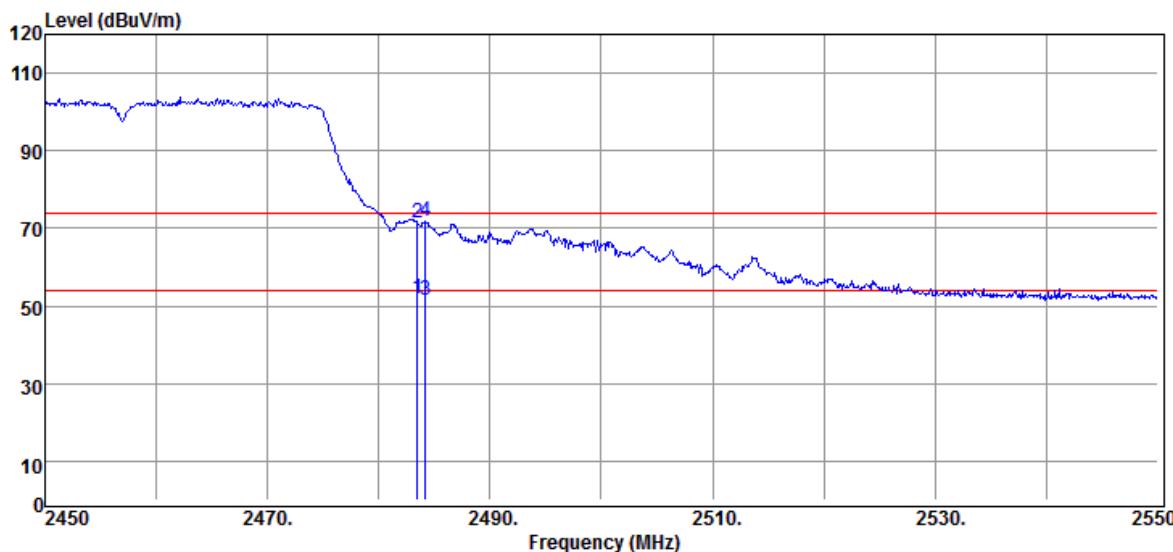
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Operation Mode :802.11n40
Test Mode :BE CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB μ V/m	dB
2483.50	Average	47.75	3.96	51.71	54.00	-2.29
2483.50	Peak	67.38	3.96	71.34	74.00	-2.66
2484.20	Average	47.42	3.96	51.38	54.00	-2.62
2484.20	Peak	67.74	3.96	71.70	74.00	-2.30

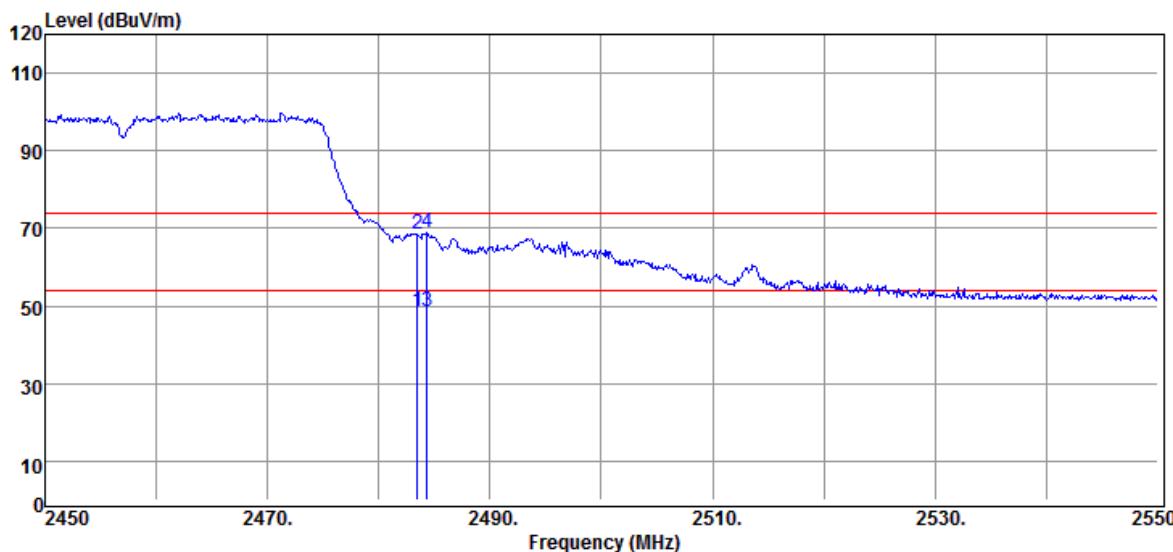
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Operation Mode :802.11n40
Test Mode :BE CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	44.77	3.96	48.73	54.00	-5.27
2483.50	Peak	64.65	3.96	68.61	74.00	-5.39
2484.30	Average	44.46	3.96	48.42	54.00	-5.58
2484.30	Peak	64.99	3.96	68.95	74.00	-5.05

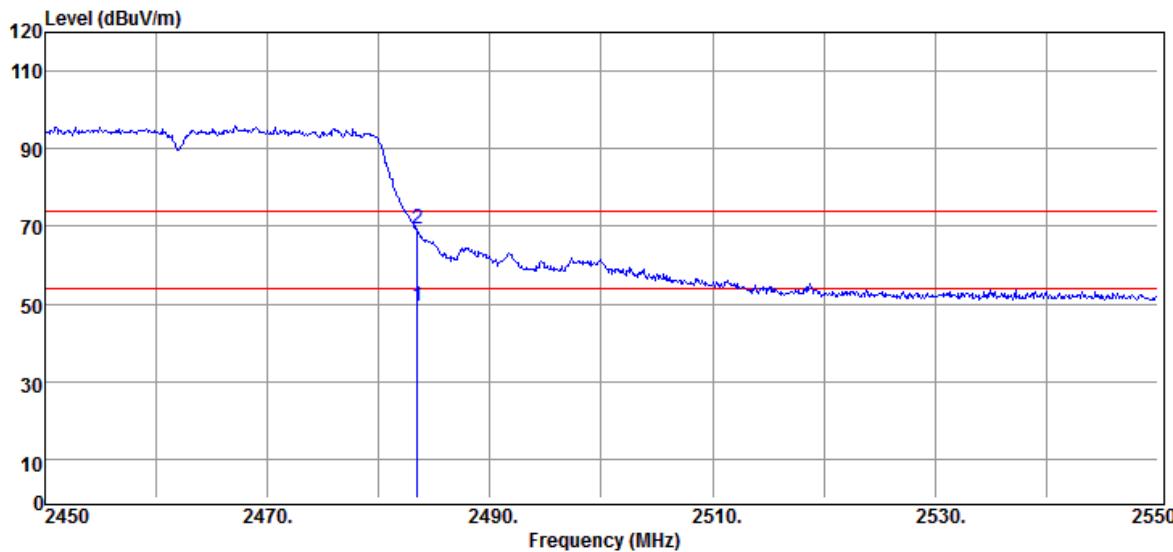
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Operation Mode :802.11n40
Test Mode :BE CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
2483.50	Average	45.32	3.96	49.28	54.00	-4.72
2483.50	Peak	65.26	3.96	69.22	74.00	-4.78

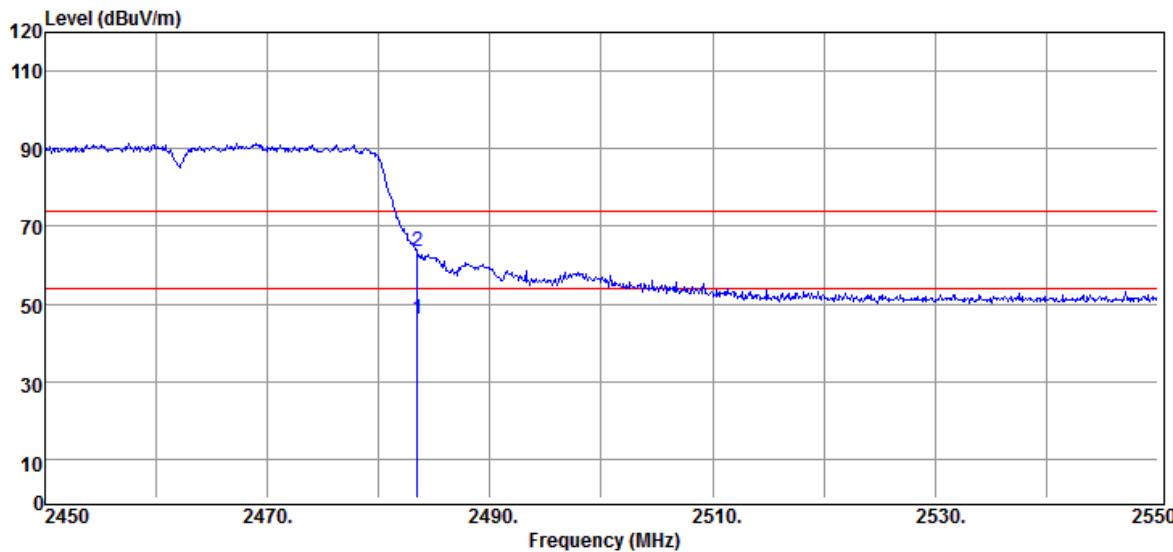
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Operation Mode :802.11n40
Test Mode :BE CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-07-23
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
2483.50	Average	41.94	3.96	45.90	54.00	-8.10
2483.50	Peak	59.64	3.96	63.60	74.00	-10.40

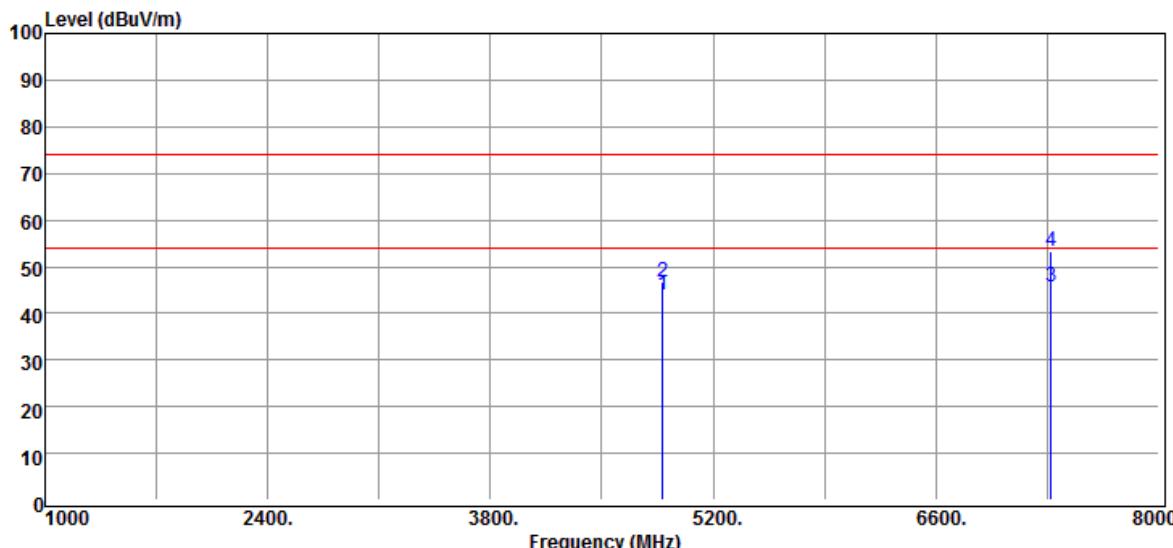
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Above 1GHz Data:**Radiated Spurious Emission Measurement Result (802.11 b)**

Operation Mode	:802.11b	Test Date	:2018-07-02
Test Mode	:TX CH MID	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	31.15	12.63	43.78	54.00	-10.22
4884.00	Peak	33.99	12.63	46.62	74.00	-27.38
7326.00	Average	25.48	20.08	45.56	54.00	-8.44
7326.00	Peak	33.19	20.08	53.27	74.00	-20.73

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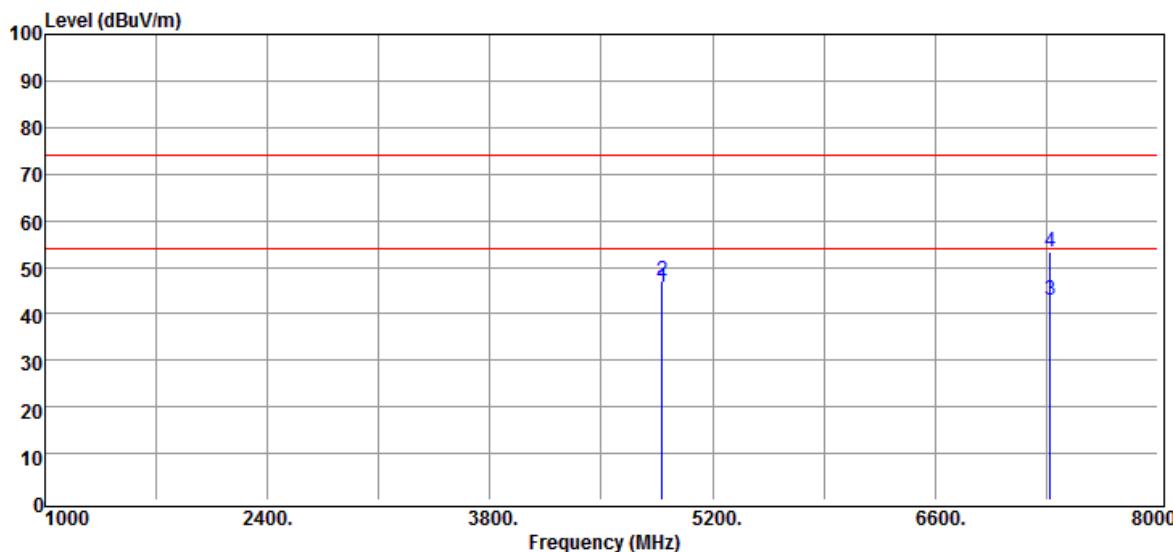
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Operation Mode :802.11b
Test Mode :TX CH MID
EUT Pol :H Plan
Test Channel :2442 MHz

Test Date :2018-07-02
Temp./Humi. :23/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	33.07	12.63	45.70	54.00	-8.30
4884.00	Peak	34.38	12.63	47.01	74.00	-26.99
7326.00	Average	22.74	20.08	42.82	54.00	-11.18
7326.00	Peak	33.18	20.08	53.26	74.00	-20.74

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8 ANTENNA REQUIREMENT

8.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

8.2 Antenna Connected Construction:

An embedded-in antenna design is used.

Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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