

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Applicant: BrainScope Company, Inc.
4330 East-West Highway, Suite 1000, Bethesda, MD, USA

Product Name: BrainScope Handheld Computer

Brand Name: BrainScope

Model No.: GT-500BC1, GT-500BC

Model Difference: Marketing purpose

FCC ID: 2ASKV-GT-500BC1

Report Number: T190313W04-RP1

FCC Rule Part: §15.407, Cat: NII

Issue Date: Nov. 28, 2019

Date of Test: Mar. 14, 2019~ Apr. 01, 2019

Date of EUT Received: Mar. 14, 2019

Issued by Compliance Certification Services Inc. Wugu Lab.
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Henry Chiang
Tested By: _____

Henry Chiang / Engineer

Kevin Tsai
Approved By: _____

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190313W04-RP1	Rev.00	Initial creation of document	All	Apr. 15, 2019	Elle Chang
T190313W04-RP1	Rev.00	Update measurement data	17	Nov. 28, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	BrainScope Handheld Computer	
Brand Name:	BrainScope	
Model No.:	GT-500BC1, GT-500BC	
Model Difference:	Marketing purpose	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5Vdc from USB port	
	Battery:	Model No.: GT500V-1, Supplier: AMobile

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm)	Modulation Technology
a	5150~5250	4	11.95	OFDM
	5725-5850	5	11.93	
n_HT 20M	5150~5250	4	HT: 11.89	OFDM
	5725-5850	5	HT: 11.87	
n_HT 40M	5150~5250	2	HT: 11.90	OFDM
	5725-5850	2	HT: 11.96	
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 – 150Mbps		

Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	AMobile	RFA-25-AP732	5150~5250	-5.37	-
			5725~5850	-6.34	-

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2013

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

1.3 Test Facility

Compliance Certification Services Inc. Wugong Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation

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.

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



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

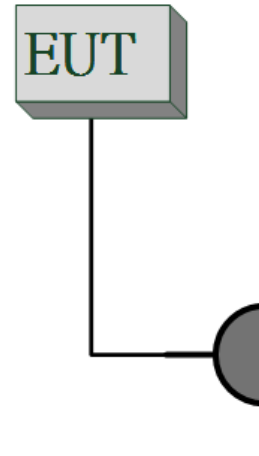


Fig. 2-2 Conducted Emission (AC Power Line) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	P0000195	Shielded	Un-shielded

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

802.11a / n HT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode	
channel	Frequency
38	5190
46	5230

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode	
channel	Frequency
151	5755
159	5795

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation		
☒ 802.11 a	☒ 802.11 n	☐ 802.11 ac

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items. □

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AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	Ch0
802.11a	5745~5825	149 to 165	157	OFDM	6	Ch0
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
802.11n_HT20				OFDM	MCS0	Ch0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ch0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Ch0
802.11n_HT20				OFDM	MCS0	Ch0
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	Ch0

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/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
802.11n_HT20				OFDM	MCS0	Ch0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ch0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Ch0
802.11n_HT20				OFDM	MCS0	Ch0
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	Ch0

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
26dB & 6dB Emission Bandwidth	+/- 147.256 Hz
The Maximum Output Power	+/- 1.924 dB
Peak Power Spectral Density	+/- 2.038 dB
Frequency Stability	+/- 147.256 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

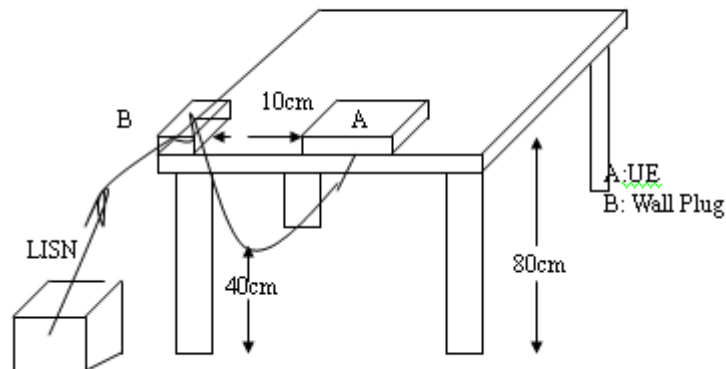
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description: Operation

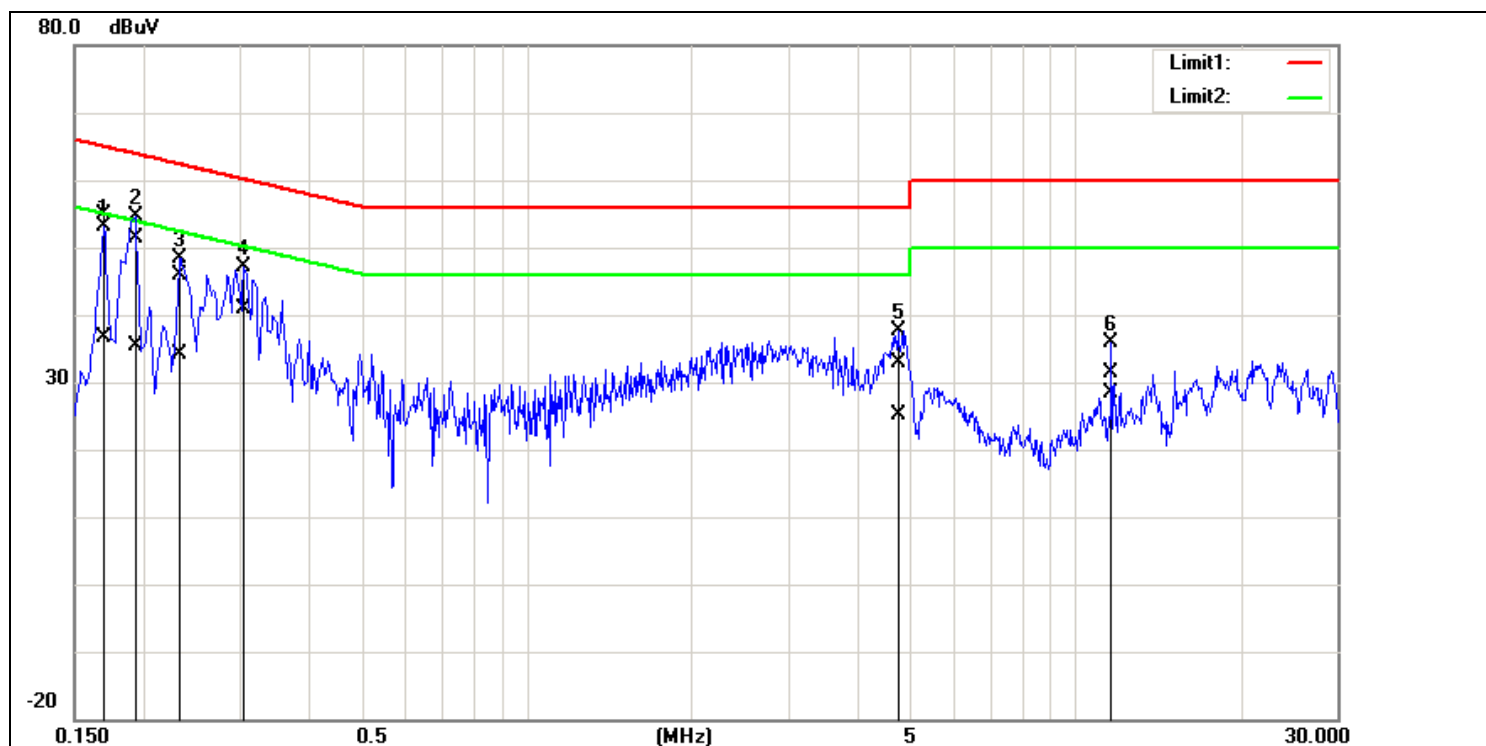
Date: 2019/3/28

Line: L1

Temp.(°C)/Hum.(%): 26(°C)/62%

Test Voltage: AC 120V/60Hz

Test By: Henry



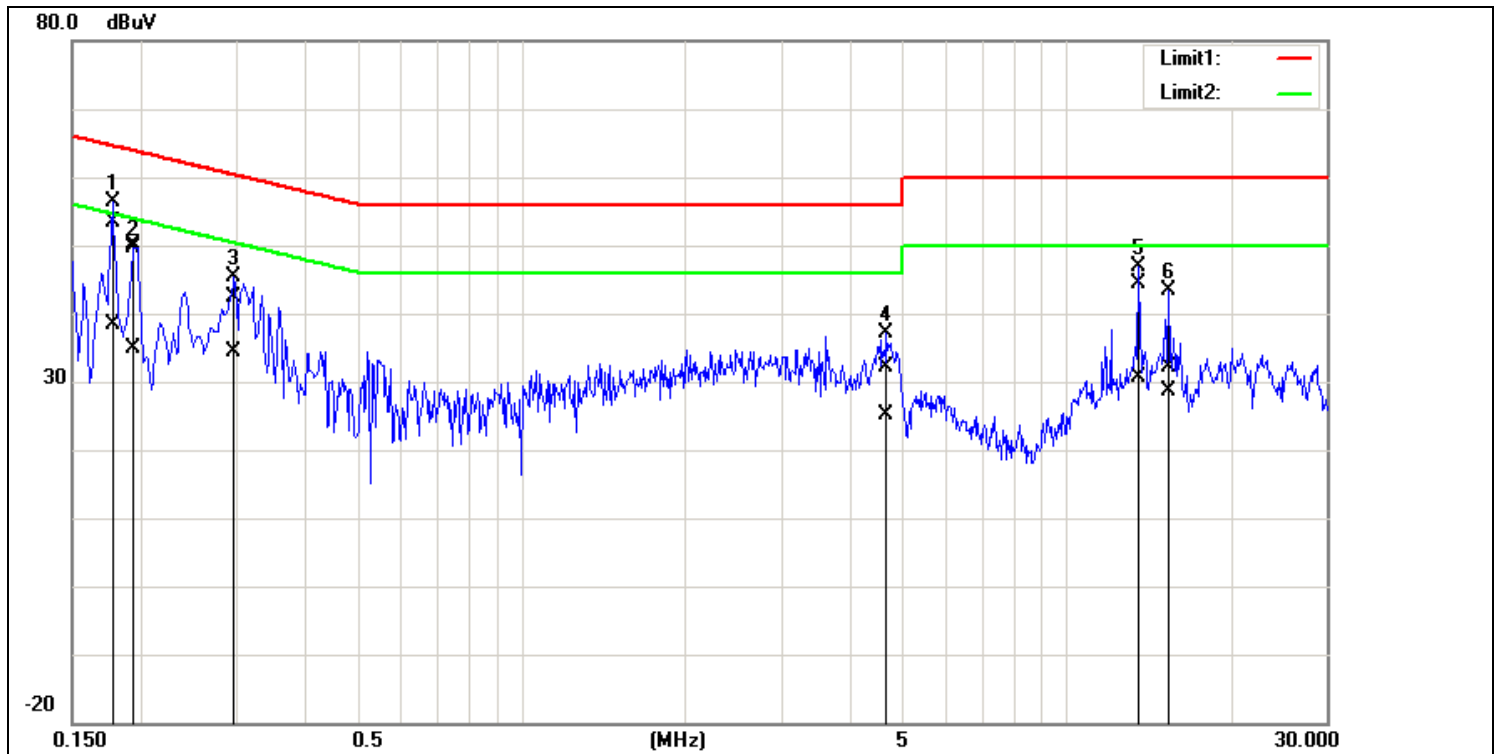
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1700	54.60	36.50	0.16	54.76	36.66	64.96	54.96	-10.20	-18.30	Pass
2	0.1940	51.14	35.19	0.15	51.29	35.34	63.86	53.86	-12.57	-18.52	Pass
3	0.2340	45.64	33.91	0.15	45.79	34.06	62.30	52.31	-16.51	-18.25	Pass
4*	0.3060	47.08	40.82	0.16	47.24	40.98	60.08	50.08	-12.84	-9.10	Pass
5	4.7540	32.68	24.94	0.30	32.98	25.24	56.00	46.00	-23.02	-20.76	Pass
6	11.6620	30.85	27.84	0.50	31.35	28.34	60.00	50.00	-28.65	-21.66	Pass

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Description:	Operation	Date:	2019/3/28
Line:	N	Temp.(°C)/Hum.(%):	26(°C)/62%
Test Voltage:	AC 120V/60Hz	Test By:	Henry



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1780	53.26	38.24	0.10	53.36	38.34	64.57	54.58	-11.21	-16.24	Pass
2	0.1940	49.95	34.80	0.10	50.05	34.90	63.86	53.86	-13.81	-18.96	Pass
3	0.2980	42.38	34.25	0.10	42.48	34.35	60.30	50.30	-17.82	-15.95	Pass
4	4.6860	31.98	25.01	0.23	32.21	25.24	56.00	46.00	-23.79	-20.76	Pass
5	13.5620	43.96	30.11	0.44	44.40	30.55	60.00	50.00	-15.60	-19.45	Pass
6	15.4420	31.62	28.27	0.47	32.09	28.74	60.00	50.00	-27.91	-21.26	Pass

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7 DUTY CYCLE 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:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) = $10 \cdot \log(1/\text{Duty Cycle})$	1/T (kHz)	VBW setting (kHz)
802.11a	97.47	0.11	0.72	1.00
802.11n_20	97.45	0.11	0.77	1.00
802.11n_40	94.92	0.23	1.54	2.00

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9747) = 0.11$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9745) = 0.11$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9492) = 0.23$$

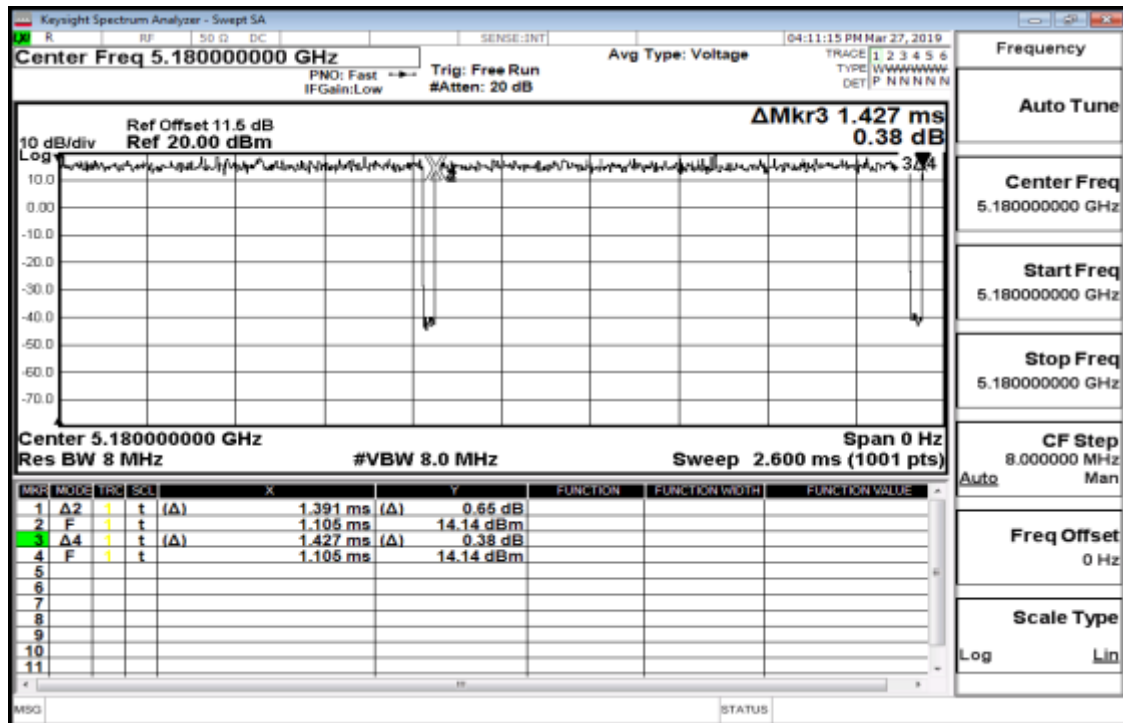
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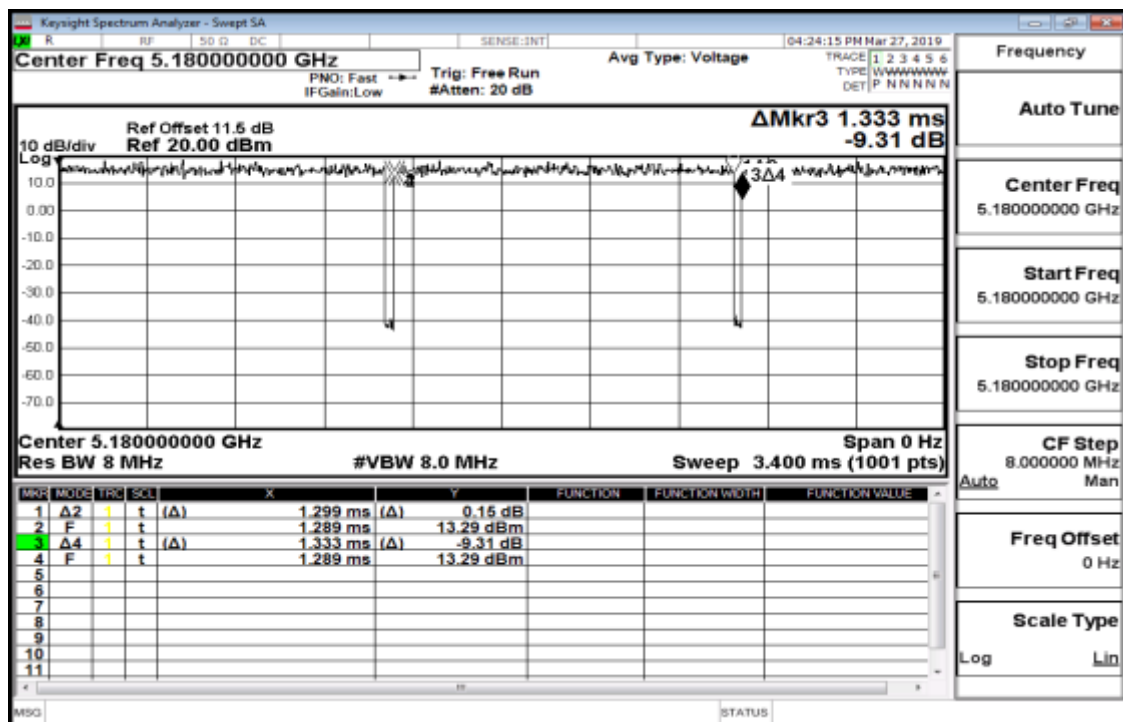
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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20

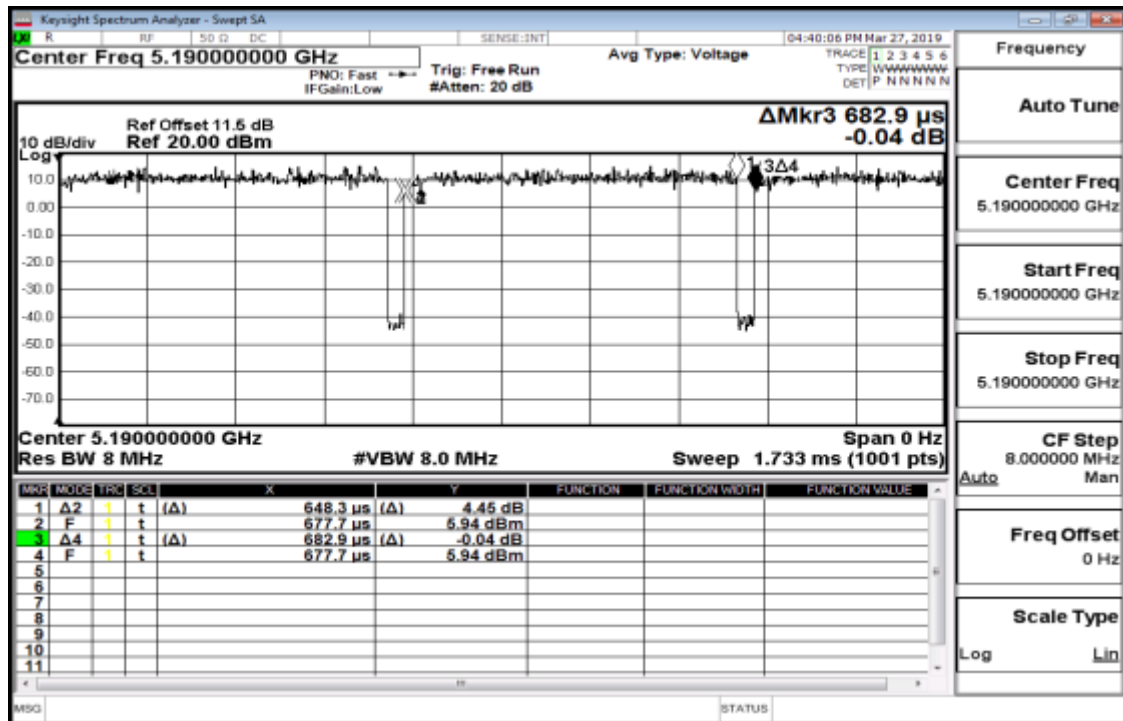


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802.11n HT 40



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8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth:

Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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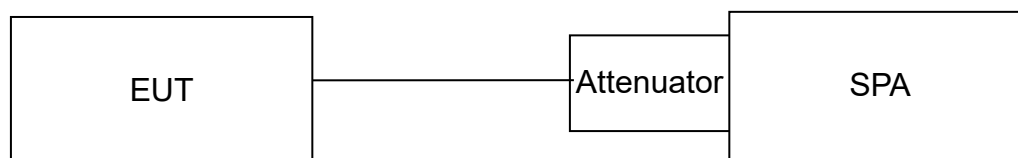
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8.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Block	PASTERNAK	PE8210	RF29	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.57	12.688
5220	18.67	12.711
5240	18.80	12.741

802.11n_HT40_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.60	15.977
5230	39.58	15.975

802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.70	12.944
5220	19.73	12.952
5240	19.89	12.986

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6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.04	12.053
5785	16.09	12.066
5825	16.07	12.059

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.97	12.033
5785	15.12	11.797
5825	16.27	12.115

802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.22	15.468
5795	35.20	15.466

99% BW verification for DFS function

802.11a_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.16	< 5250
5745	5736.75	> 5725

802.11n_HT20_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.79	< 5250
5745	5736.15	> 5725

802.11n_HT40_Ch0

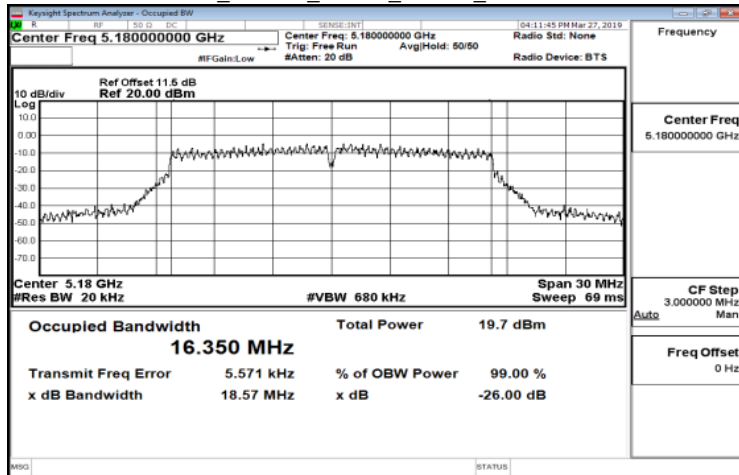
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.95	< 5250
5755	5737.05	> 5725

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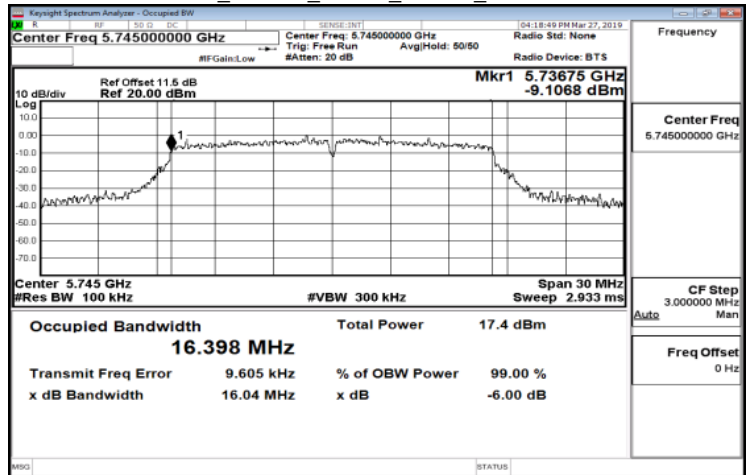
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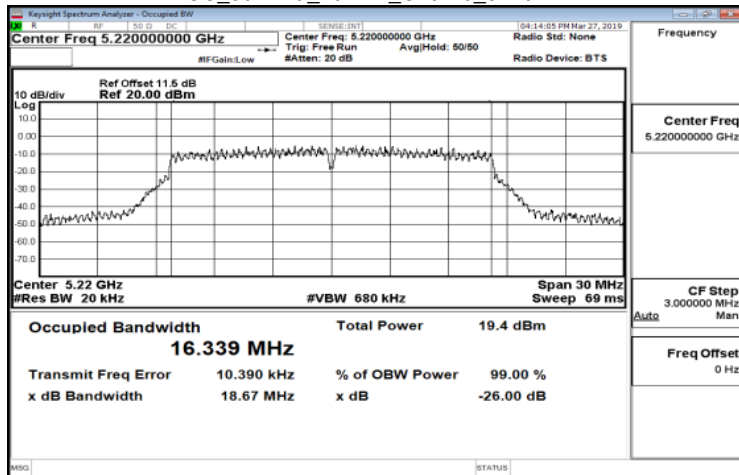
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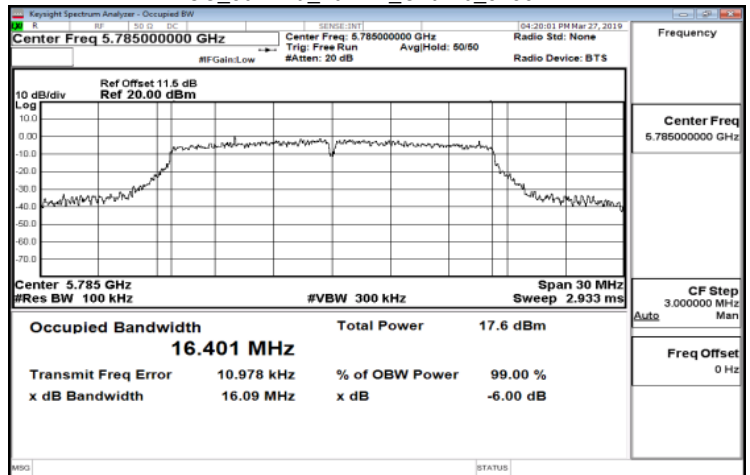
FCC_802.11a_20MHz_Chain0_5745MHz



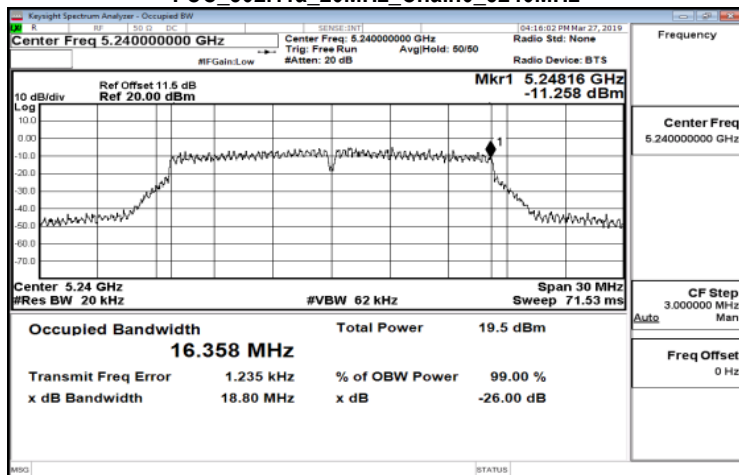
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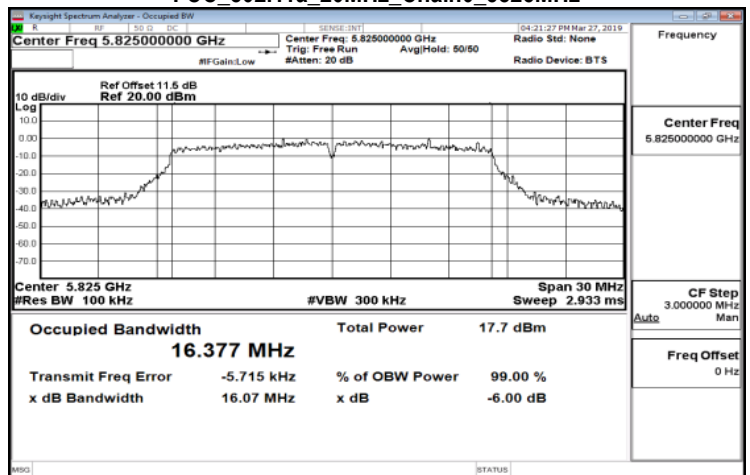
FCC_802.11a_20MHz_Chain0_5785MHz



FCC_802.11a_20MHz_Chain0_5240MHz



FCC_802.11a_20MHz_Chain0_5825MHz

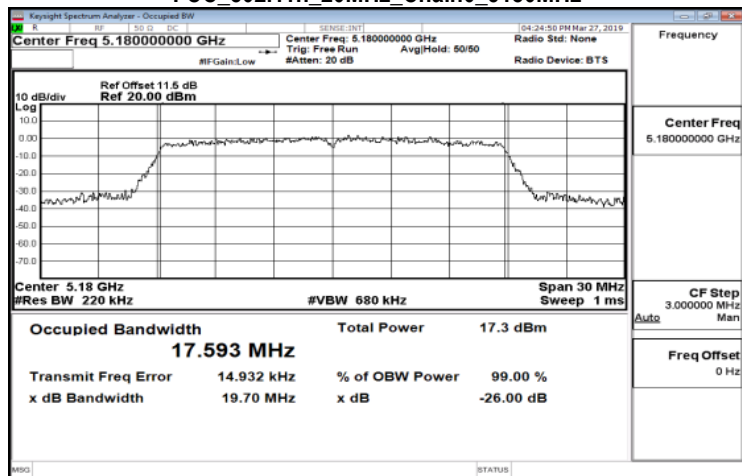


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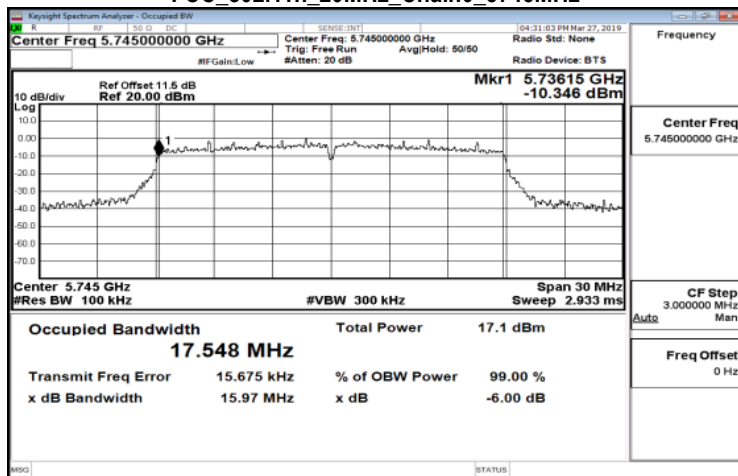
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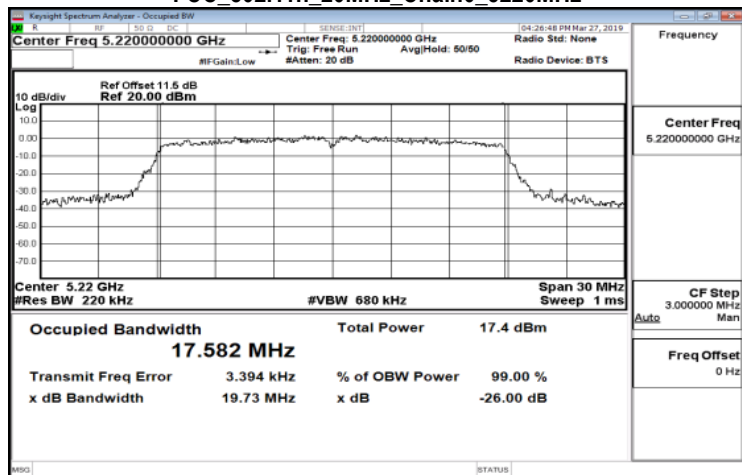
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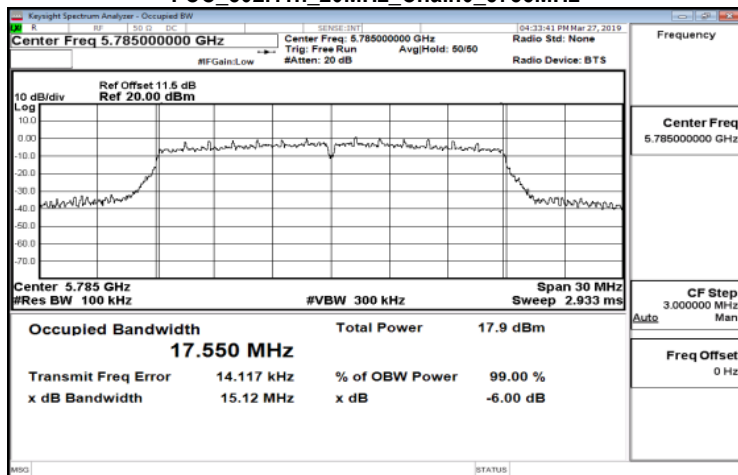
FCC_802.11n_20MHz_Chain0_5745MHz



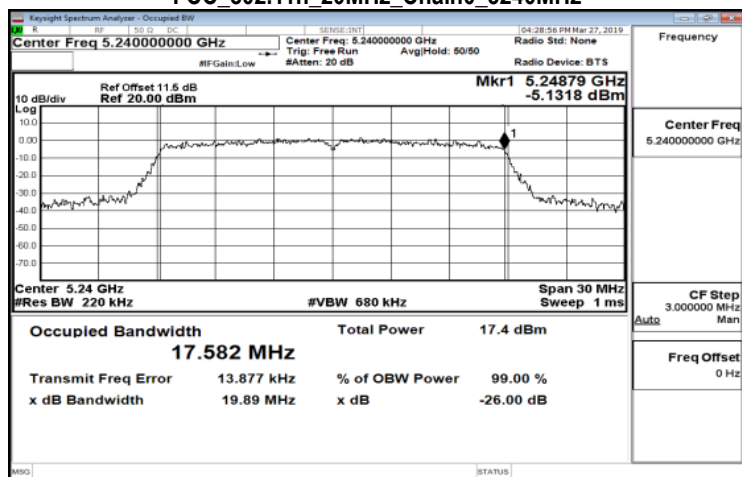
FCC_802.11n_20MHz_Chain0_5220MHz



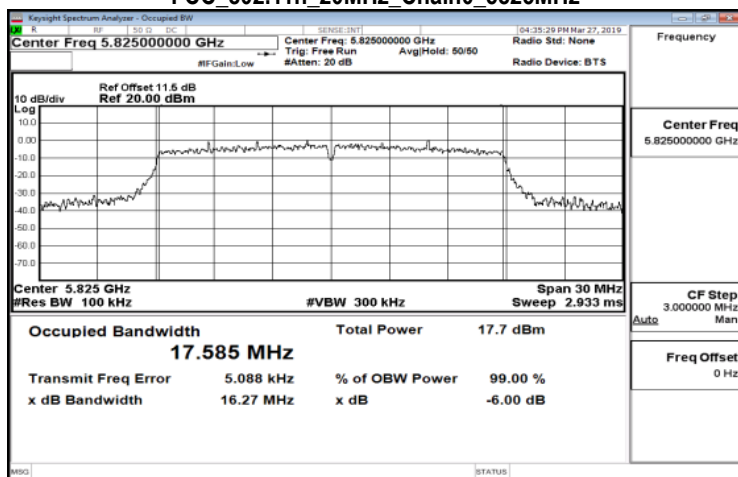
FCC_802.11n_20MHz_Chain0_5785MHz



FCC_802.11n_20MHz_Chain0_5240MHz



FCC_802.11n_20MHz_Chain0_5825MHz

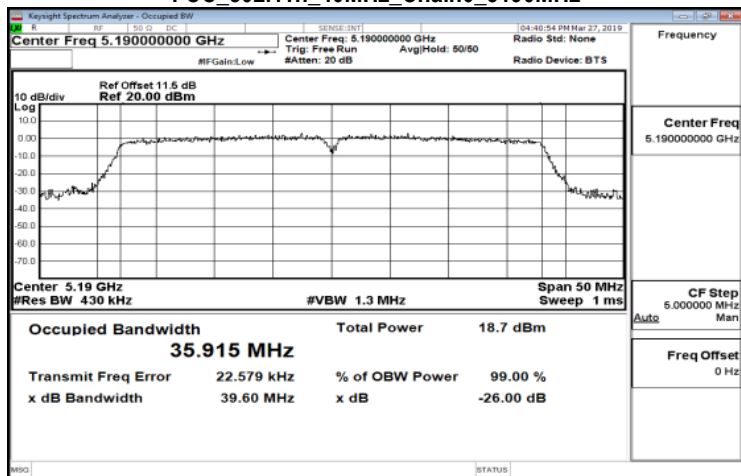


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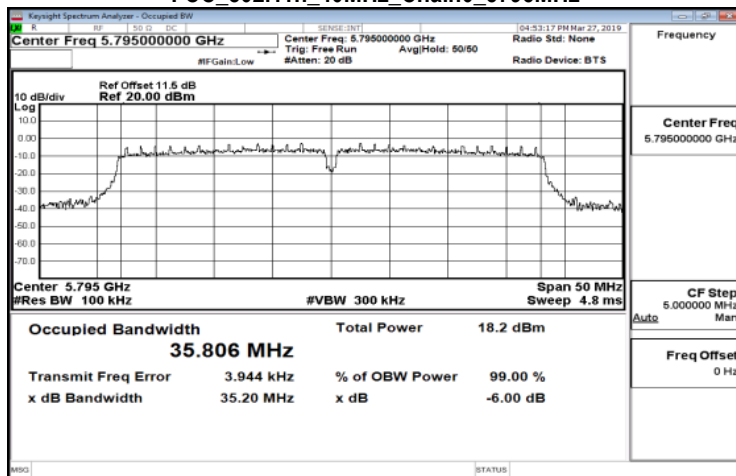
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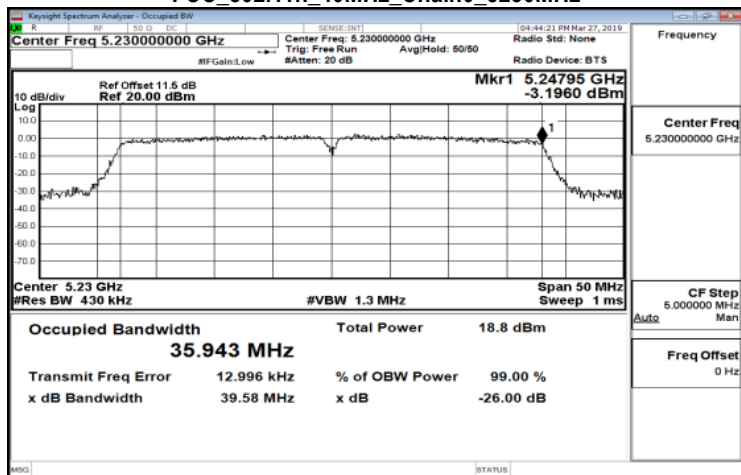
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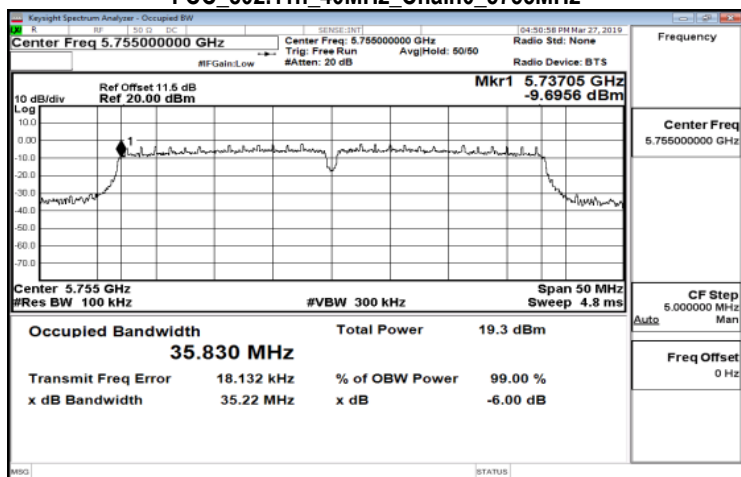
FCC_802.11n_40MHz_Chain0_5795MHz



FCC_802.11n_40MHz_Chain0_5230MHz



FCC_802.11n_40MHz_Chain0_5755MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A			250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C			250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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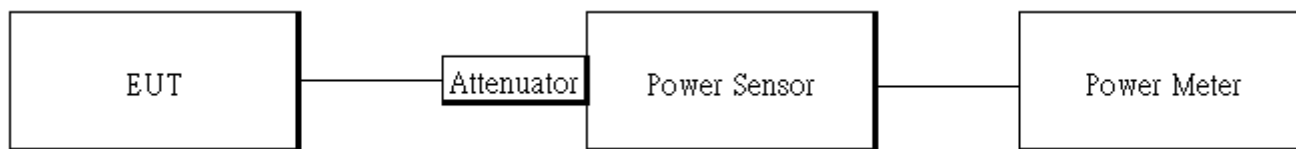
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9.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315048	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315049	08/03/2018	08/02/2019
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

9.4 Test Set-up



9.5 Measurement Result

Conducted output power (FCC)

802.11a Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	11.95	15.675	23.98	PASS
44	5220	6	11.83	15.248	23.98	PASS
48	5240	6	11.85	15.319	23.98	PASS
149	5745	6	11.93	15.603	30	PASS
157	5785	6	11.82	15.213	30	PASS
165	5825	6	11.83	15.248	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.84	15.283	23.98	PASS
44	5220	MCS0	11.89	15.460	23.98	PASS
48	5240	MCS0	11.85	15.319	23.98	PASS
149	5745	MCS0	11.84	15.283	30	PASS
157	5785	MCS0	11.82	15.213	30	PASS
165	5825	MCS0	11.87	15.389	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.83	15.228	23.98	PASS
46	5230	MCS0	11.90	15.475	23.98	PASS
151	5755	MCS0	11.96	15.691	30	PASS
159	5795	MCS0	11.94	15.619	30	PASS

Note:

Cable Loss=

10.8 dB

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	Mobile and portable client device	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

10.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- For U-NII-3 Band:**
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- User the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all default test channel (low, middle, and high) was complete.

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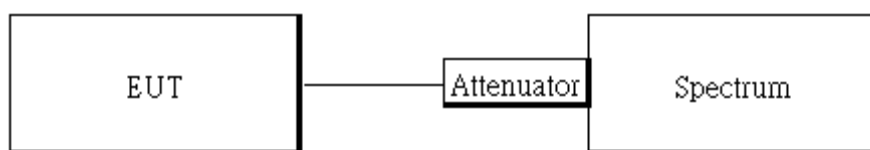
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10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Block	PASTERNAK	PE8210	RF29	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	1.66	0.11	1.77	11	-9.23
5220	0.87	0.11	0.98	11	-10.02
5240	1.28	0.11	1.39	11	-9.61
5745	-2.91	-	-2.91	30	-32.91
5785	-2.03	-	-2.03	30	-32.03
5825	-1.61	-	-1.61	30	-31.61

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	0.77	0.11	0.88	11	-10.12
5220	-0.18	0.11	-0.07	11	-11.07
5240	-0.11	0.11	0.00	11	-11.00
5745	-4.18	-	-4.18	30	-34.18
5785	-4.40	-	-4.40	30	-34.40
5825	-2.59	-	-2.59	30	-32.59

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-4.8	0.23	-4.57	11	-15.57
5230	-4.91	0.23	-4.68	11	-15.68
5755	-6.96	-	-6.96	30	-36.96
5795	-8.03	-	-8.03	30	-38.03

Note:

Cable Loss=

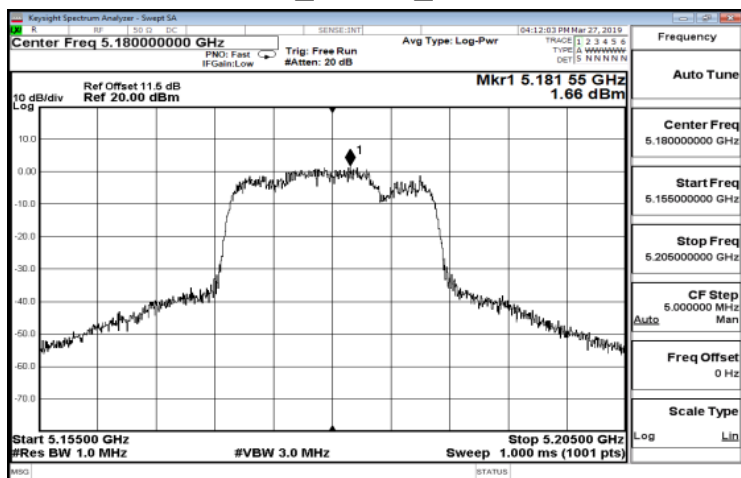
10.8 dB

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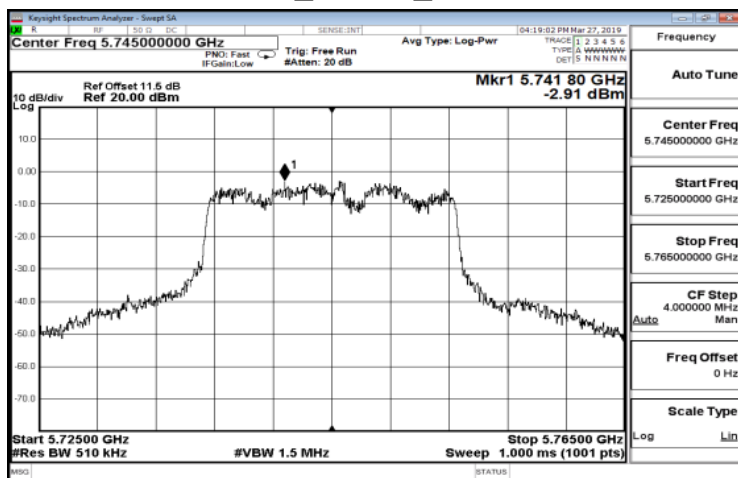
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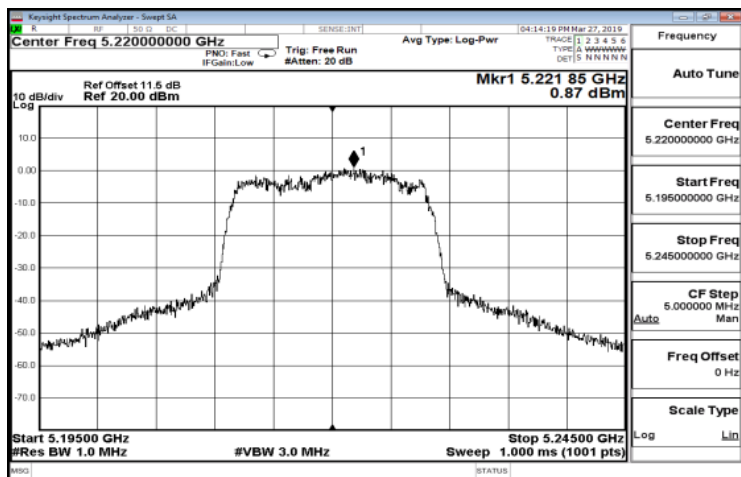
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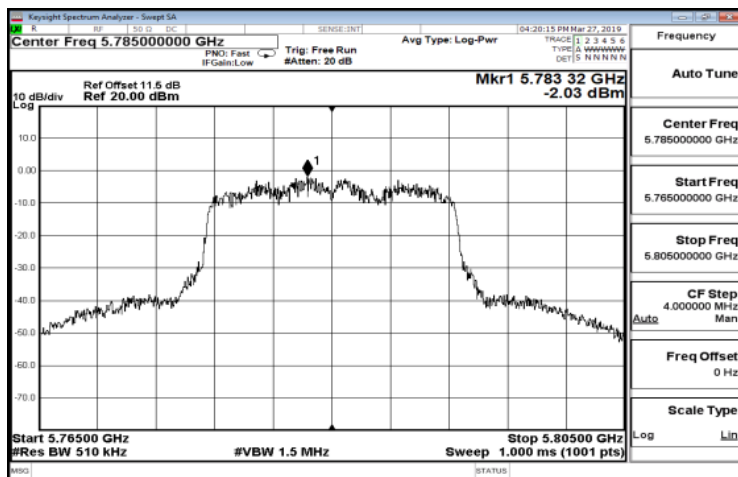
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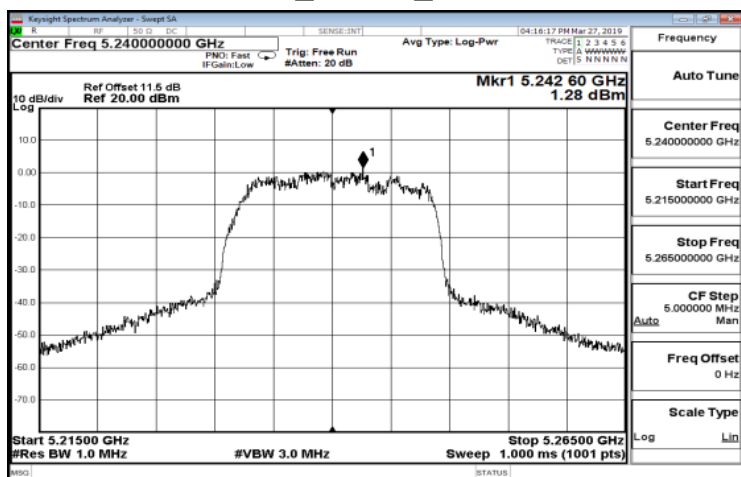
802.11a_20MHz_5220MHz



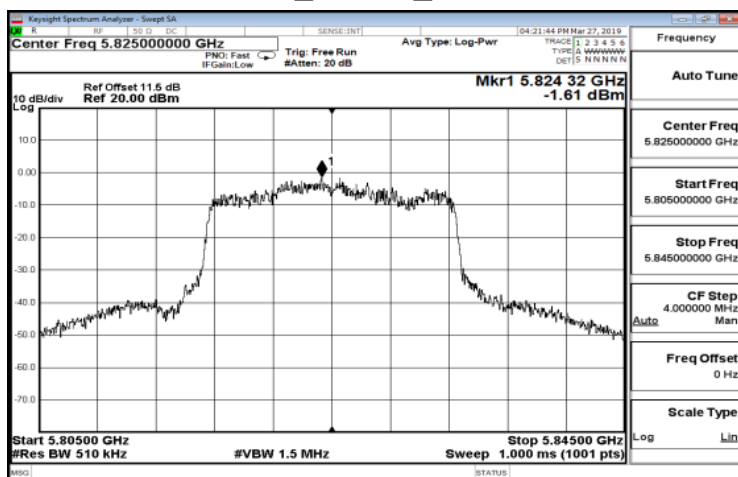
802.11a_20MHz_5785MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5825MHz

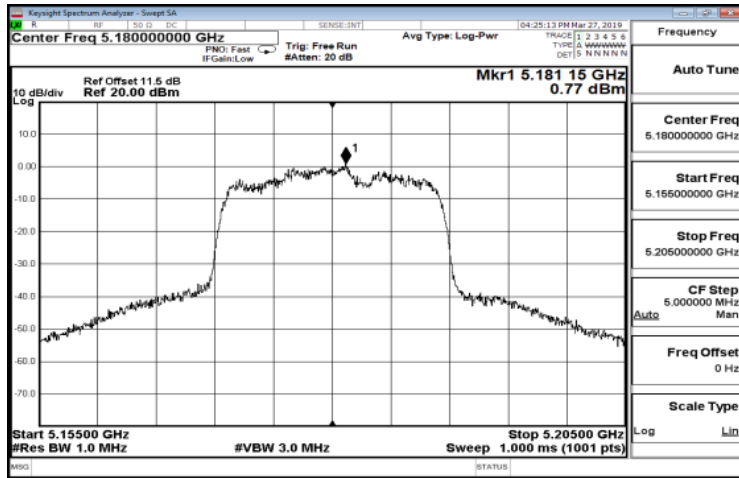


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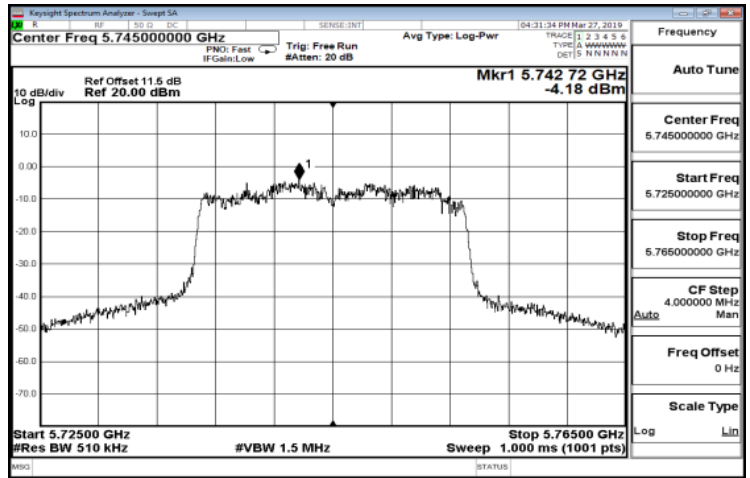
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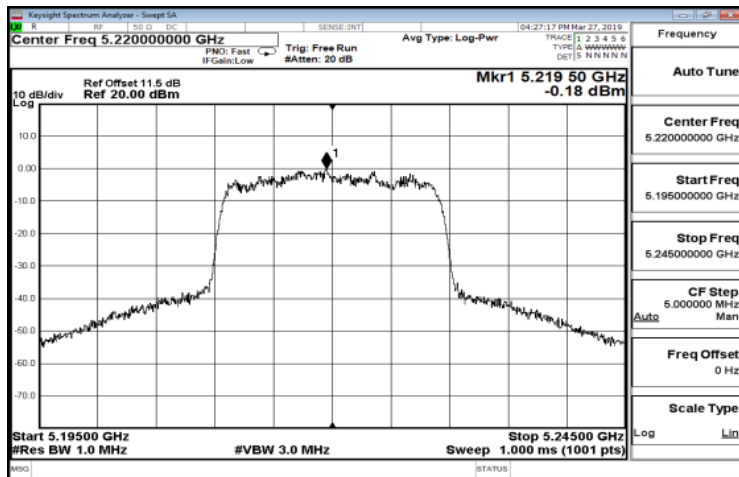
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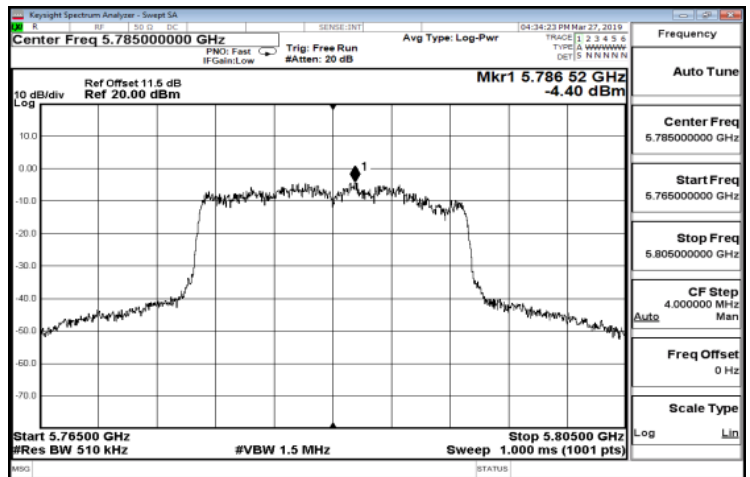
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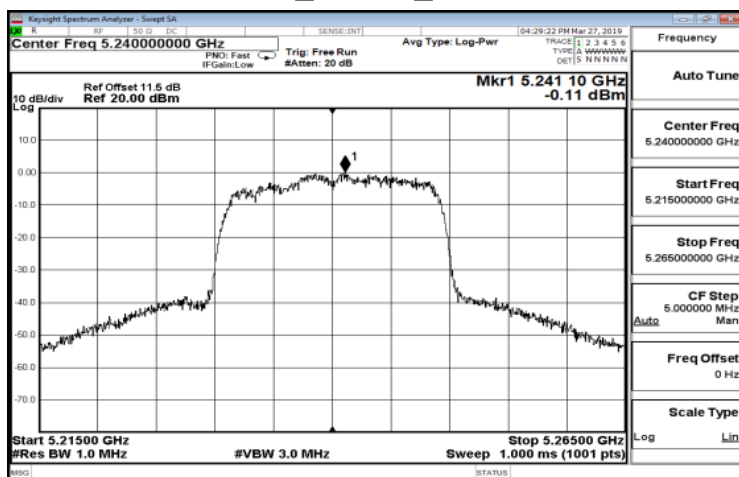
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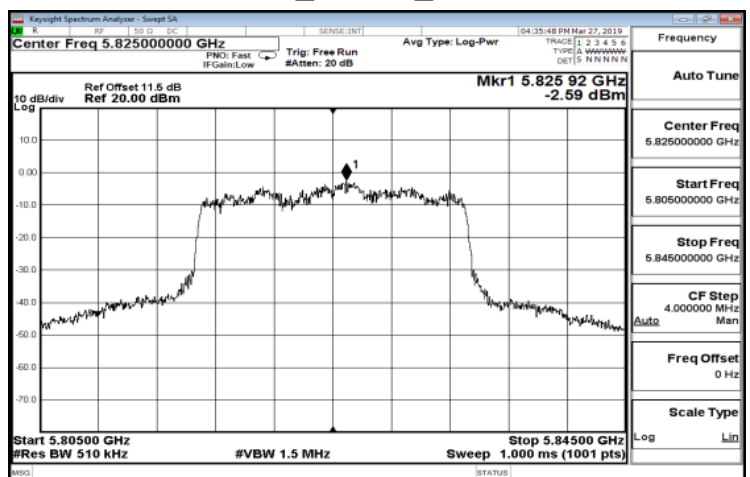
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802.11n_20MHz_5240MHz



802.11n_20MHz_5825MHz

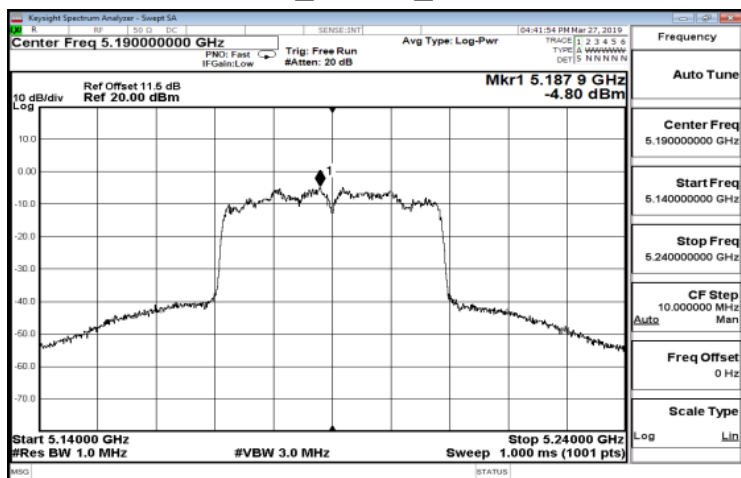


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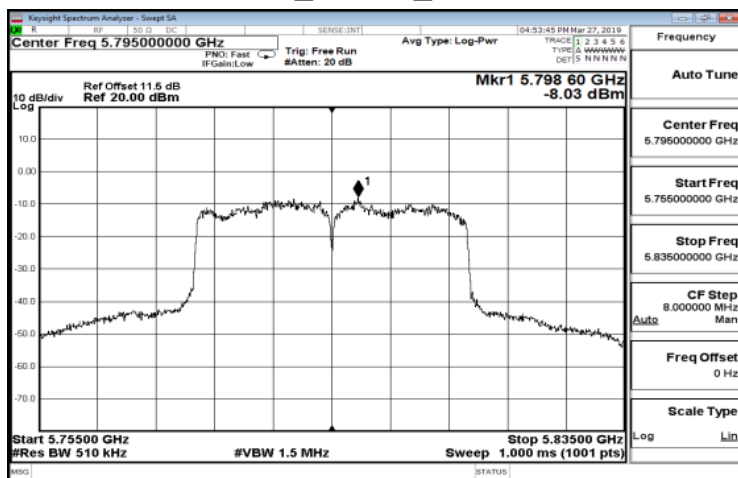
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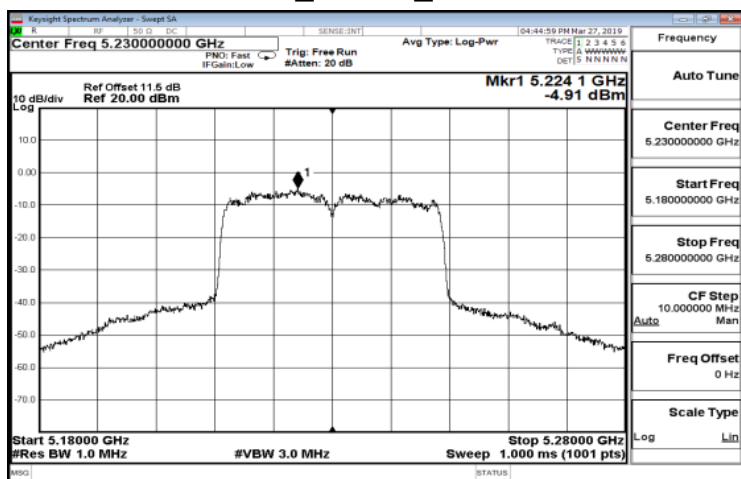
802.11n_40MHz_5190MHz



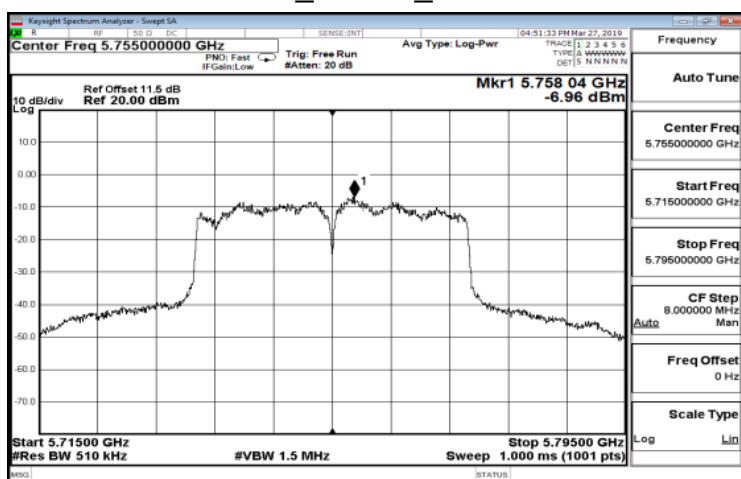
802.11n_40MHz_5795MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5755MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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 (dBμV/m) = 20 log Emission level (dBμV/m)

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11.2 Measurement Equipment Used

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
High Pass Filter	WI	WHKX7.0/18G-8SS	45	02/26/2019	02/25/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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

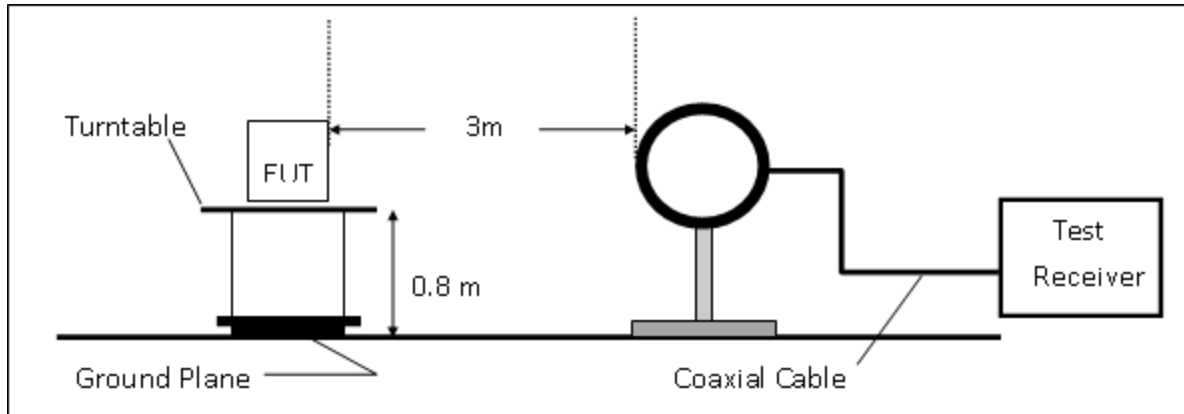
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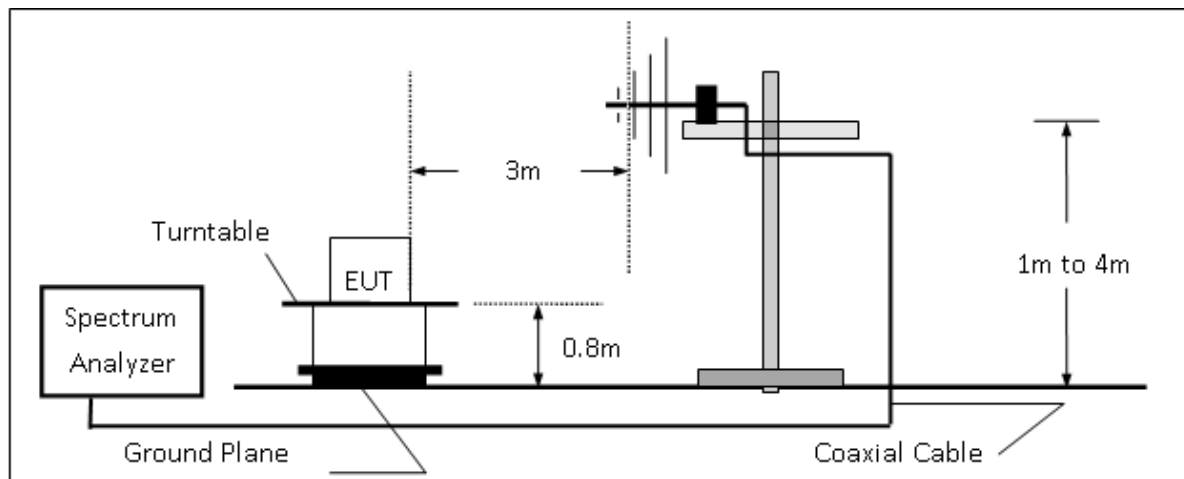
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11.3 Test SET-UP

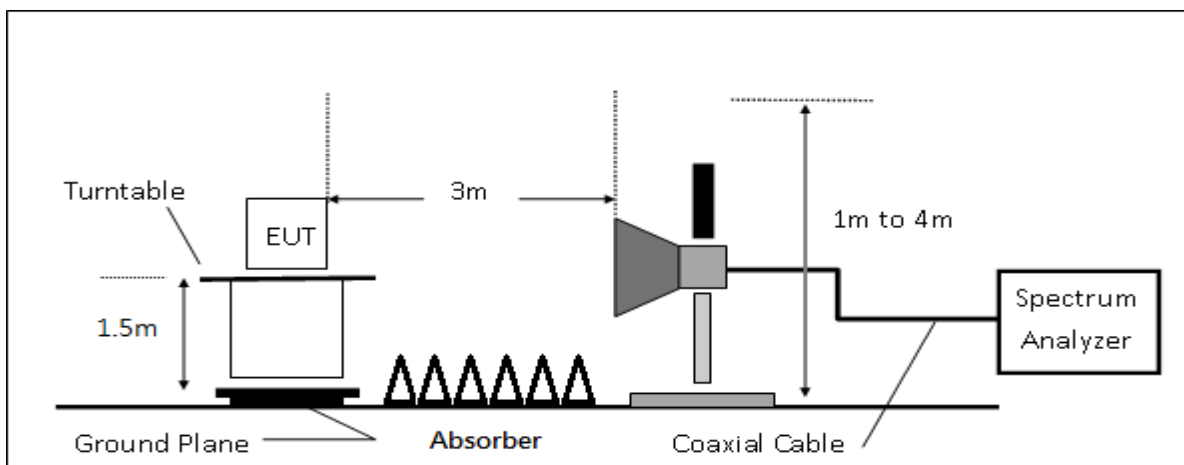
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
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. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

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

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

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

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

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

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11.6 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.

11.7 Measurement Result

Refer to next page for tabular data sheets.

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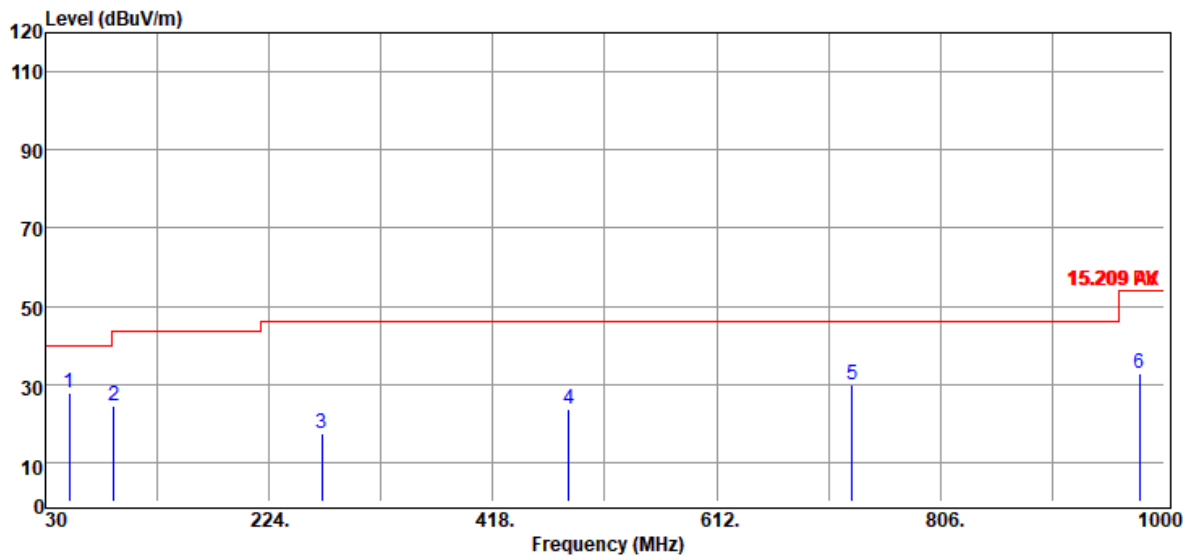
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Band	:802.11a/Band 1	Test Date	:2019-03-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24/58
Operation Mode	:TX CH MID	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



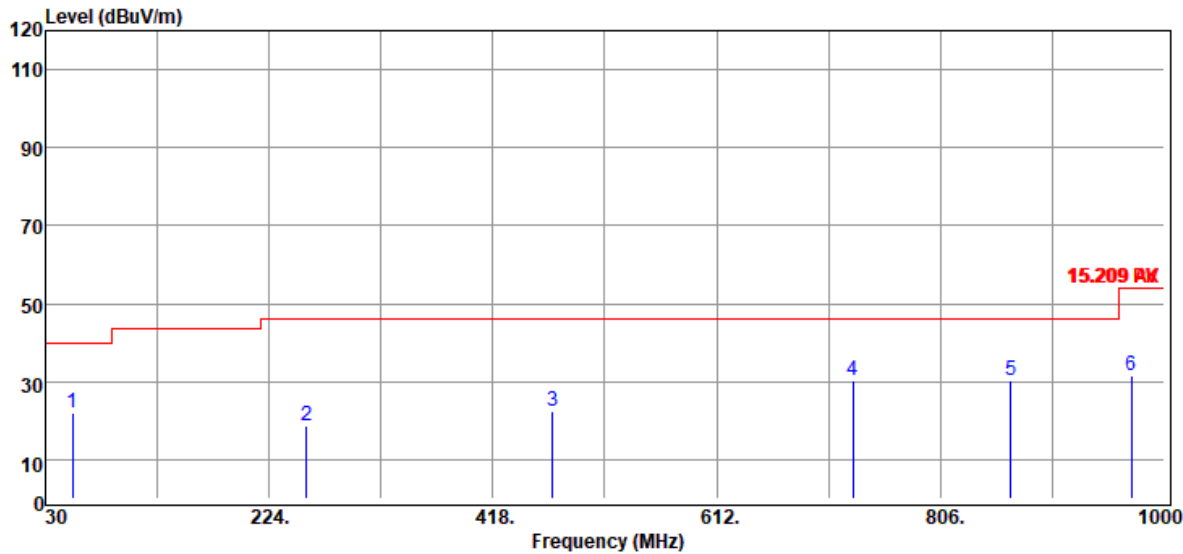
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	Peak	42.24	-14.62	27.62	40.00	-12.38
89.17	Peak	39.50	-14.90	24.60	43.50	-18.90
269.59	Peak	25.45	-7.87	17.58	46.00	-28.42
483.96	Peak	25.84	-2.08	23.76	46.00	-22.24
729.37	Peak	28.36	1.51	29.87	46.00	-16.13
978.66	Peak	26.16	6.62	32.78	54.00	-21.22

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Operation Band	:802.11a/Band 1	Test Date	:2019-03-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24/58
Operation Mode	:TX CH MID	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
53.28	Peak	37.25	-15.17	22.08	40.00	-17.92
256.01	Peak	28.13	-9.53	18.60	46.00	-27.40
469.41	Peak	24.86	-2.44	22.42	46.00	-23.58
730.34	Peak	28.88	1.53	30.41	46.00	-15.59
867.11	Peak	26.54	3.97	30.51	46.00	-15.49
971.87	Peak	25.10	6.65	31.75	54.00	-22.25

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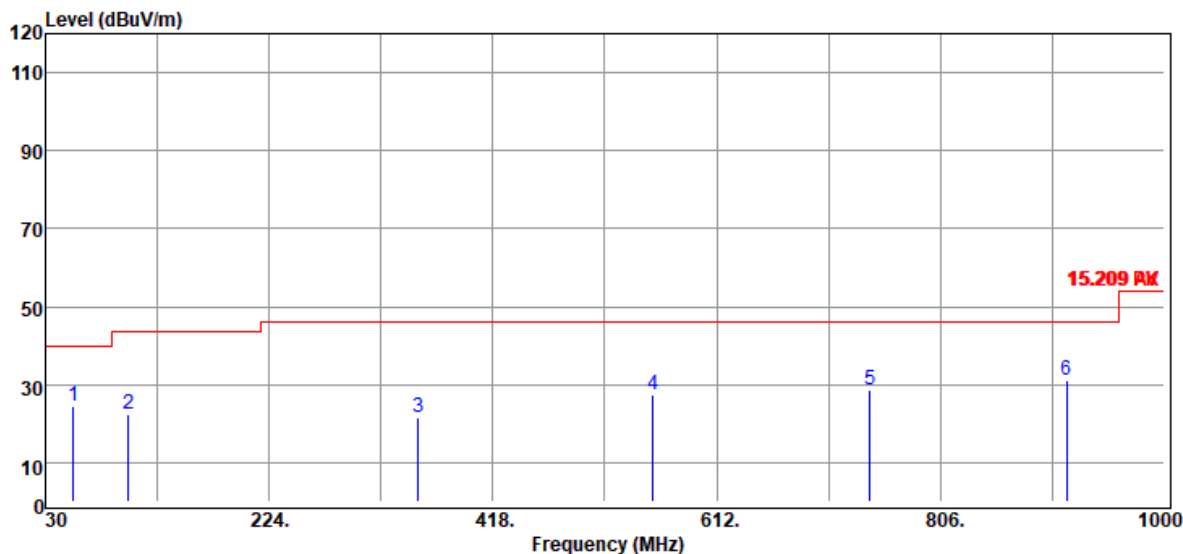
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802.11a 5470~5725 MHz

Operation Band :802.11a/Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
54.25	Peak	39.83	-15.33	24.50	40.00	-15.50
101.78	Peak	34.10	-11.50	22.60	43.50	-20.90
353.01	Peak	27.45	-6.04	21.41	46.00	-24.59
556.71	Peak	28.71	-1.49	27.22	46.00	-18.78
744.89	Peak	26.50	2.26	28.76	46.00	-17.24
915.61	Peak	26.23	4.81	31.04	46.00	-14.96

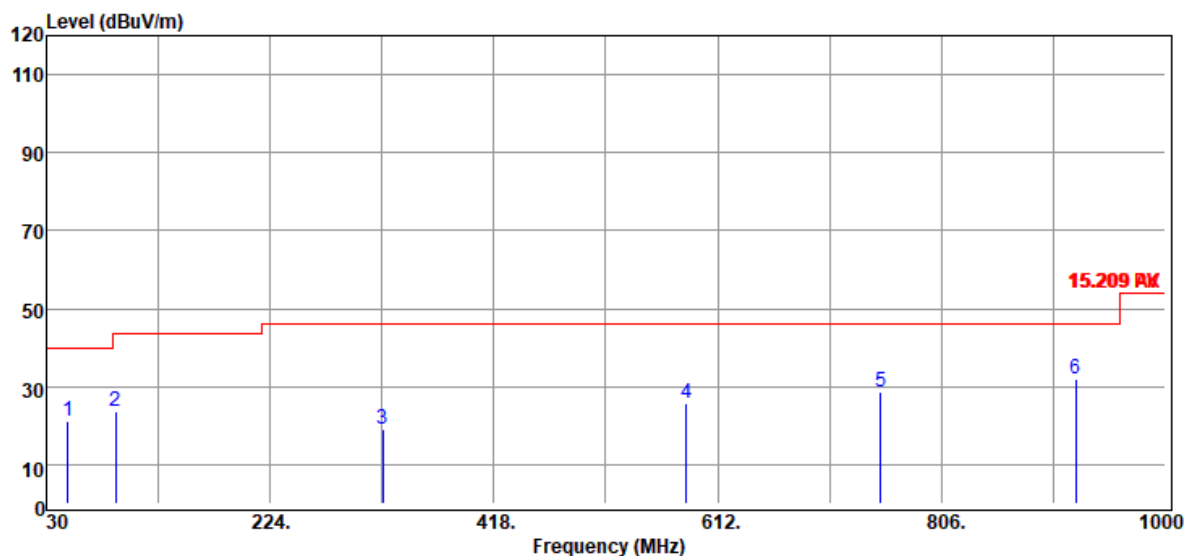
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Operation Band :802.11a/Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.43	Peak	35.06	-13.97	21.09	40.00	-18.91
90.14	Peak	38.46	-14.71	23.75	43.50	-19.75
321.97	Peak	25.87	-6.65	19.22	46.00	-26.78
584.84	Peak	27.03	-1.42	25.61	46.00	-20.39
753.62	Peak	26.18	2.63	28.81	46.00	-17.19
922.40	Peak	26.95	4.93	31.88	46.00	-14.12

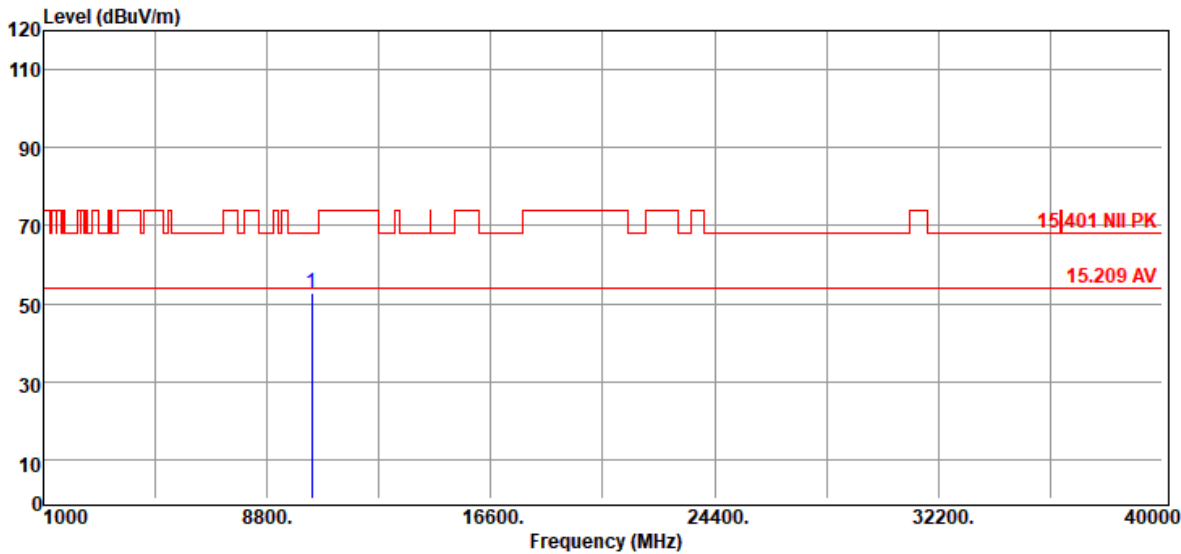
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Above 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Band	:802.11a/Band 1	Test Date	:2019-03-15
Fundamental Frequency	:5180 MHz	Temp./Humi.	:21/57
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



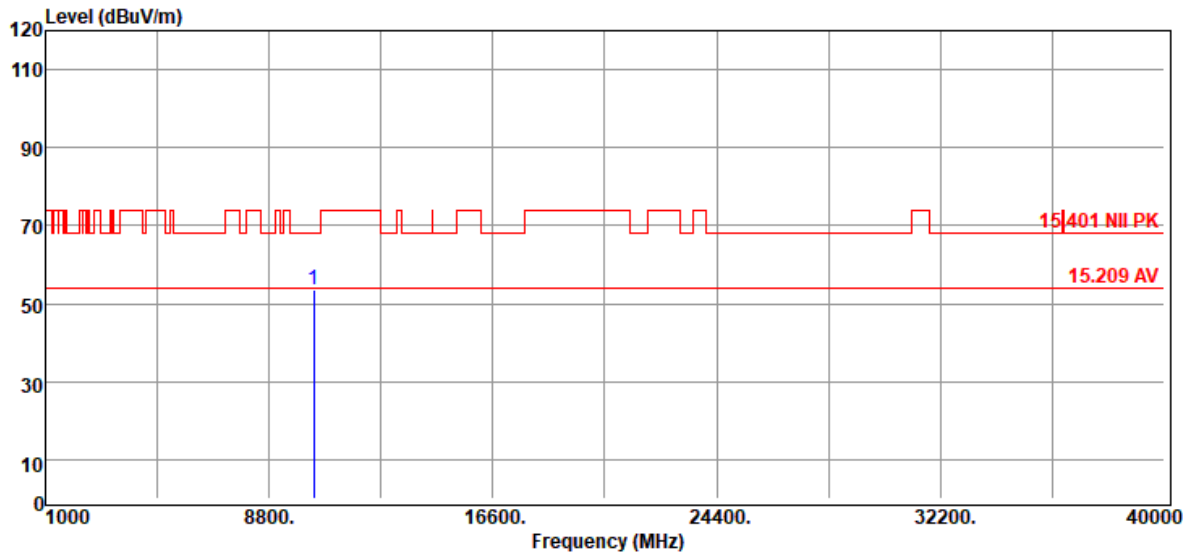
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	38.22	14.41	52.63	68.20	-15.57

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Operation Band	:802.11a/Band 1	Test Date	:2019-03-15
Fundamental Frequency	:5180 MHz	Temp./Humi.	:21/57
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	39.13	14.41	53.54	68.20	-14.66

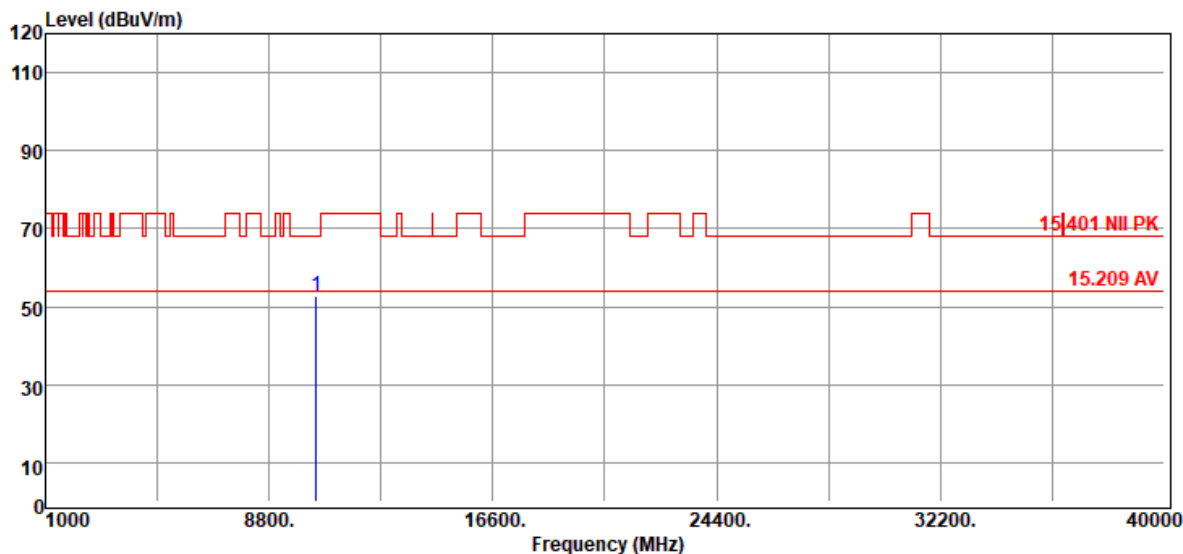
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Operation Band :802.11a/Band 1
Fundamental Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	36.99	15.58	52.57	68.20	-15.63

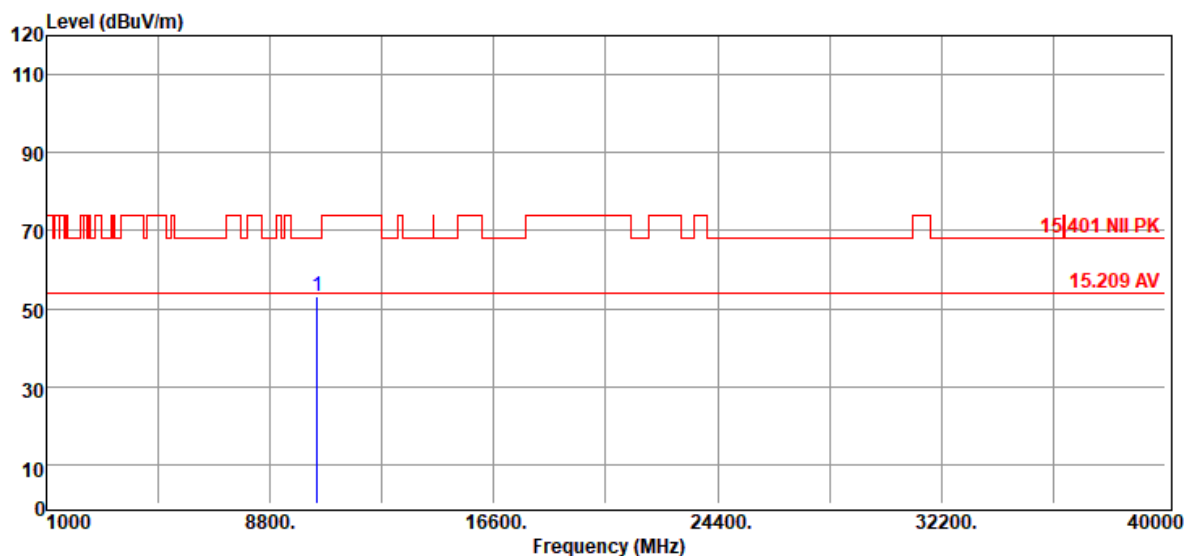
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Operation Band :802.11a/Band 1
Fundamental Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	37.40	15.58	52.98	68.20	-15.22

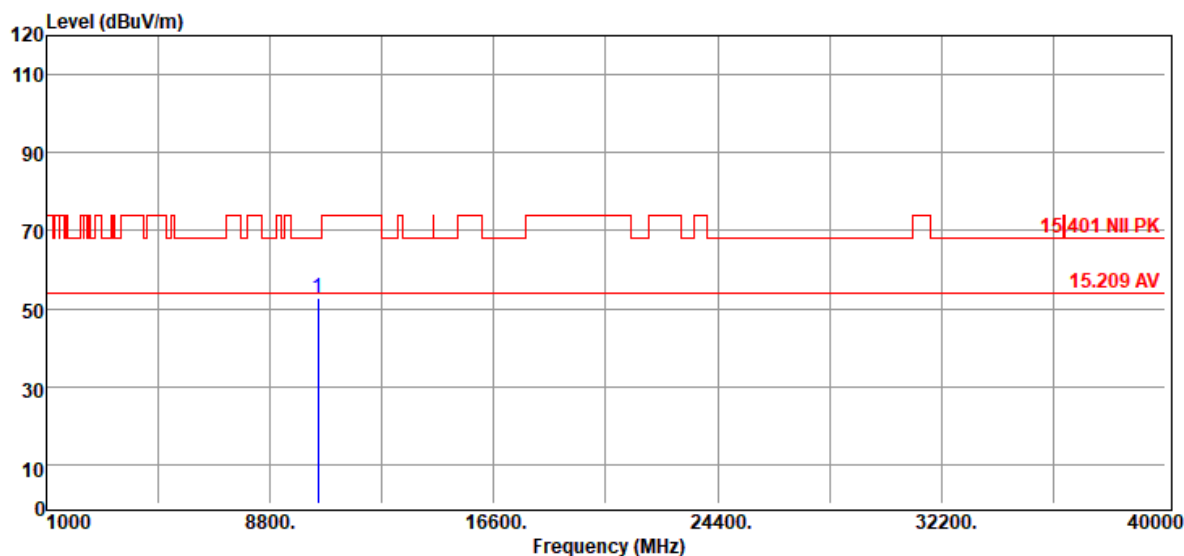
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Operation Band :802.11a/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :21/58
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	36.16	16.48	52.64	68.20	-15.56

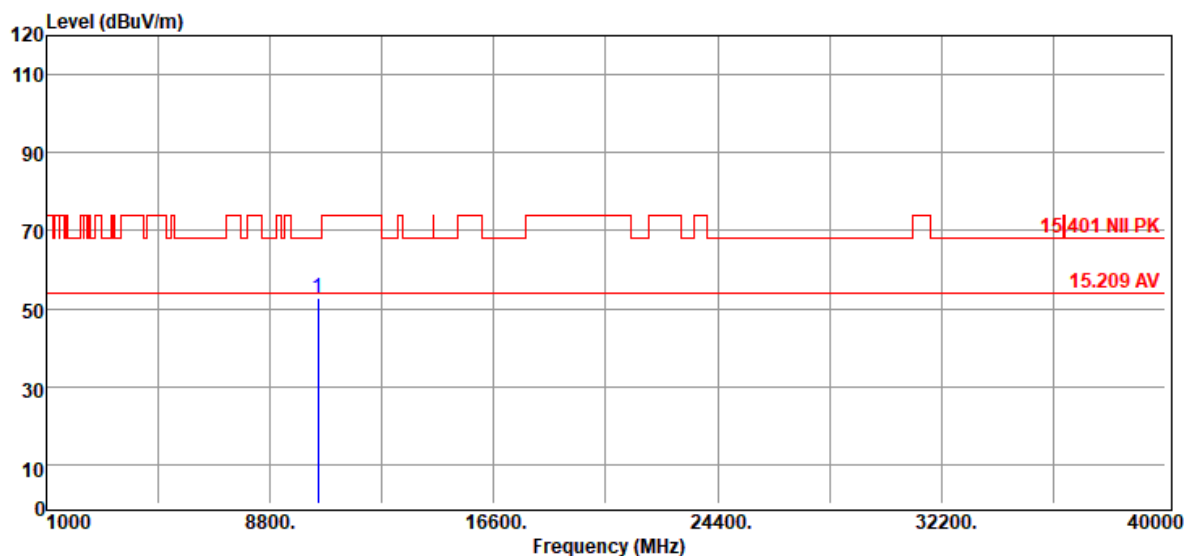
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Operation Band :802.11a/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :21/58
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	36.37	16.48	52.85	68.20	-15.35

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

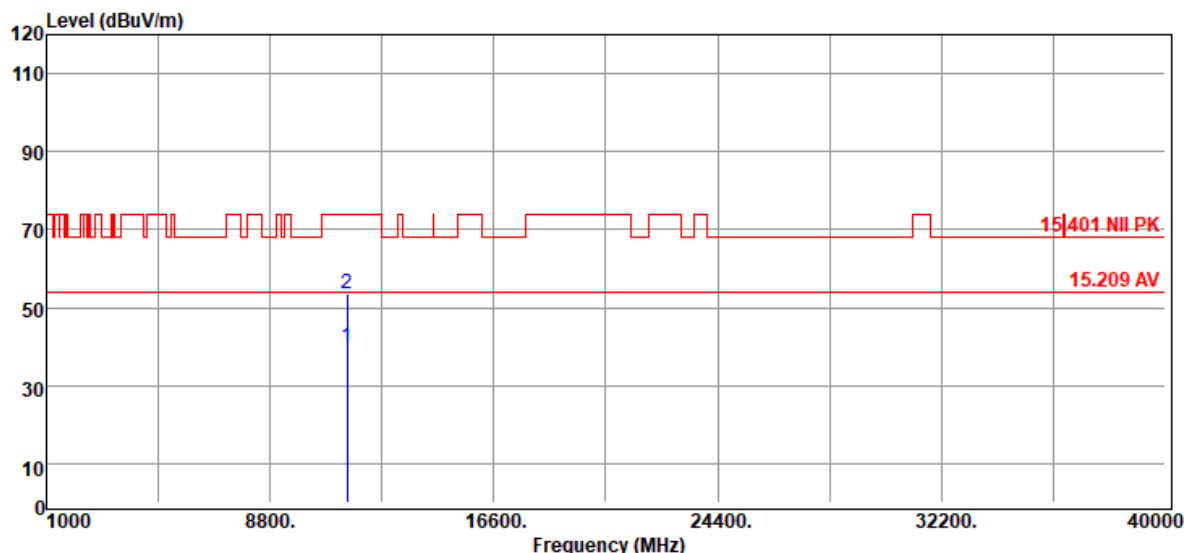
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802.11a, 5470~5725 MHz

Operation Band :802.11a/Band 4
Fundamental Frequency :5745 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :21/58
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	24.12	15.85	39.97	54.00	-14.03
11490.00	Peak	37.60	15.85	53.45	74.00	-20.55

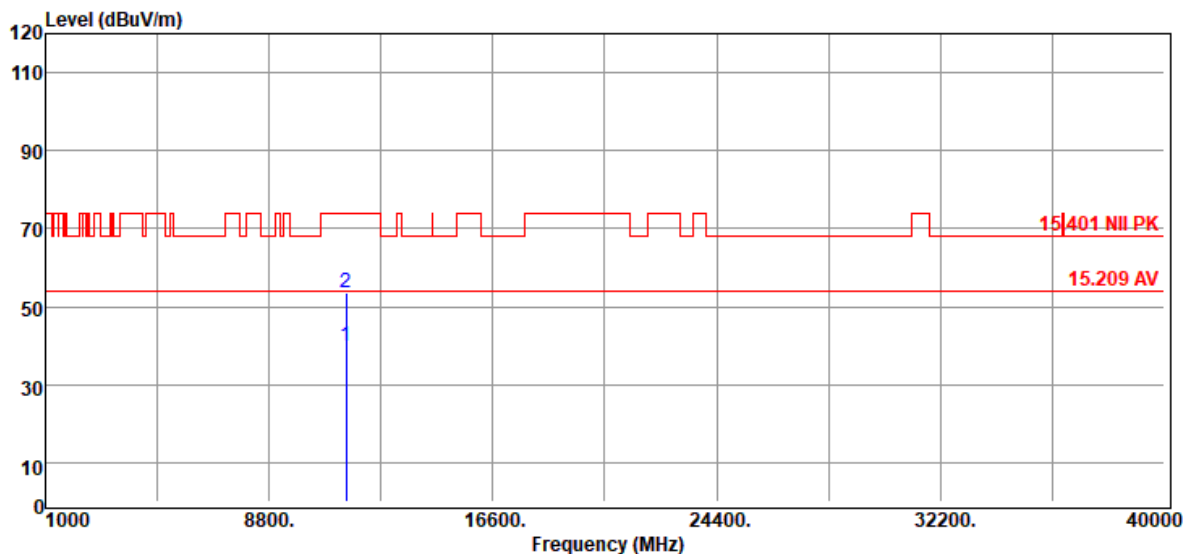
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Operation Band :802.11a/Band 4
Fundamental Frequency :5745 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :21/58
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	23.89	15.85	39.74	54.00	-14.26
11490.00	Peak	37.57	15.85	53.42	74.00	-20.58

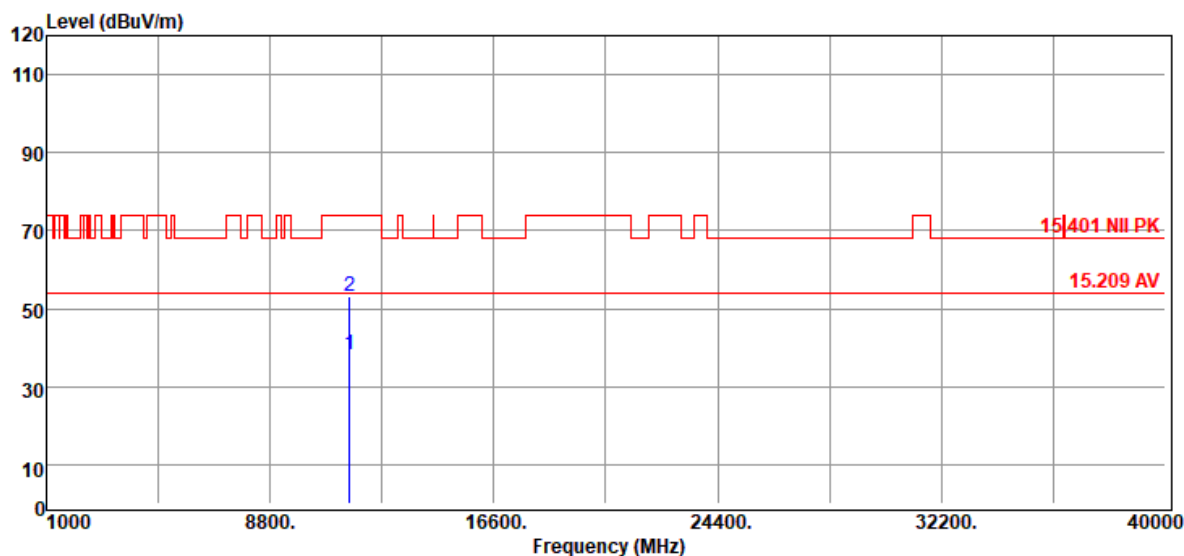
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Operation Band :802.11a/Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-16
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	22.05	16.29	38.34	54.00	-15.66
11570.00	Peak	37.06	16.29	53.35	74.00	-20.65

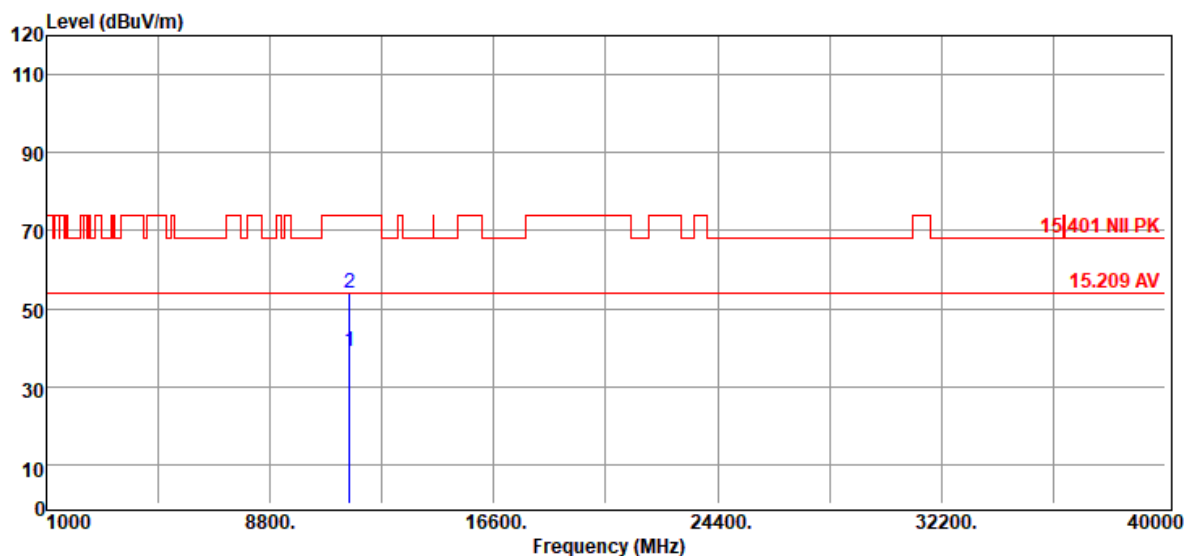
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Operation Band :802.11a/Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-16
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	22.67	16.29	38.96	54.00	-15.04
11570.00	Peak	37.68	16.29	53.97	74.00	-20.03

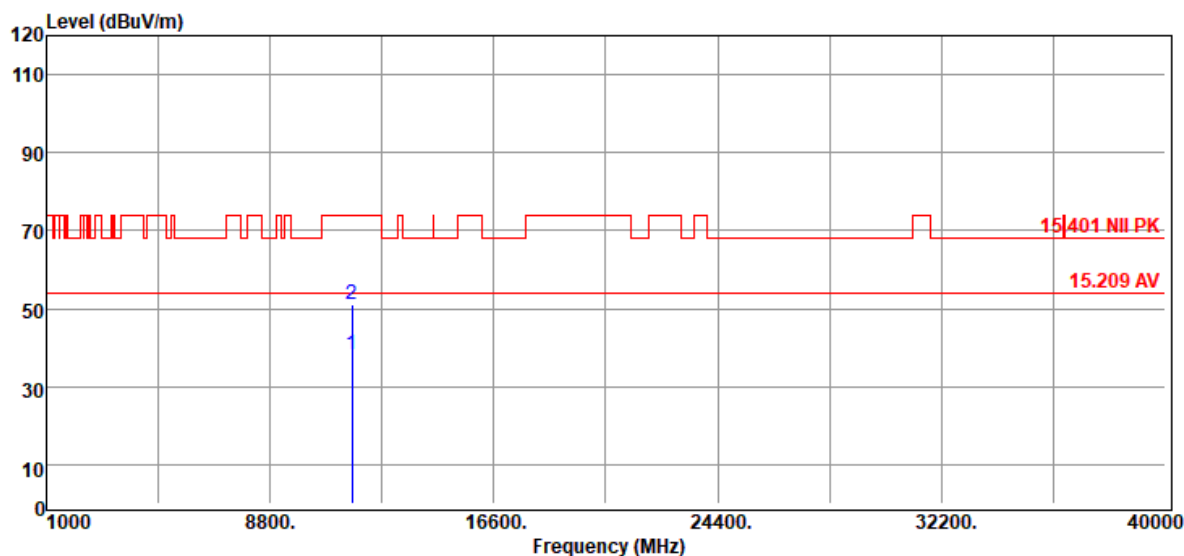
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Operation Band :802.11a/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-16
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	21.47	16.61	38.08	54.00	-15.92
11650.00	Peak	34.45	16.61	51.06	74.00	-22.94

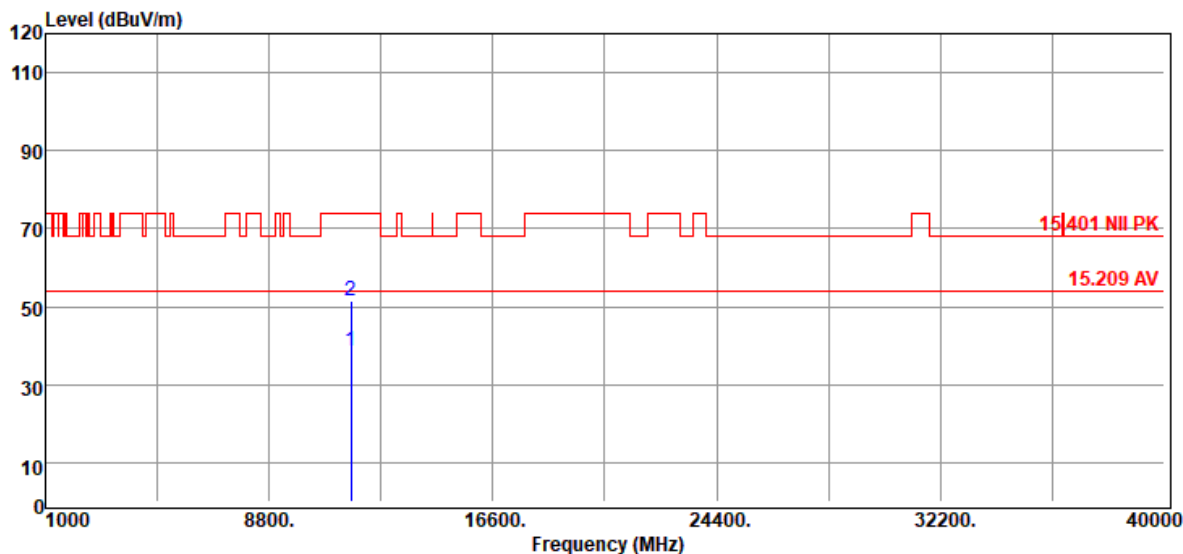
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Operation Band :802.11a/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-16
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	22.06	16.61	38.67	54.00	-15.33
11650.00	Peak	34.89	16.61	51.50	74.00	-22.50

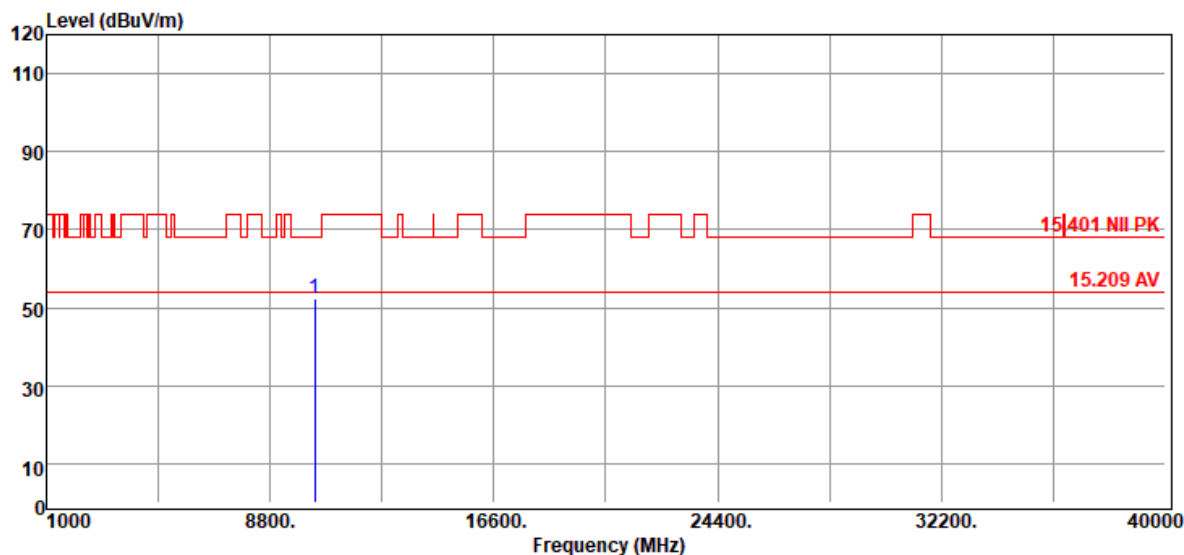
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11n20/Band 1	Test Date	:2019-03-18
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10360.00	Peak	37.80	14.41	52.21	68.20	-15.99

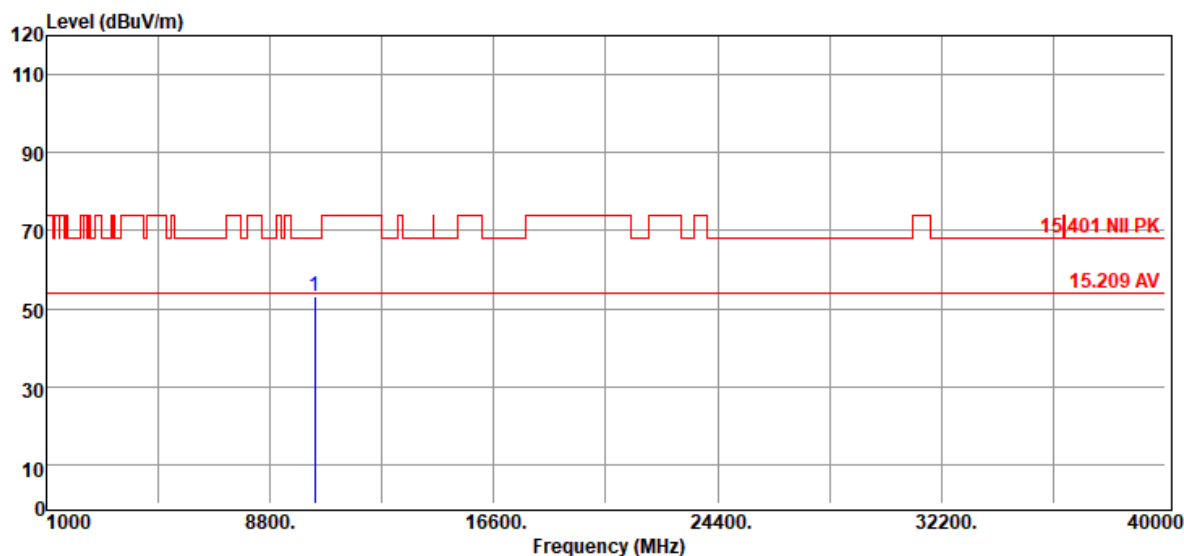
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Operation Band :802.11n20/Band 1
Fundamental Frequency :5180 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	38.92	14.41	53.33	68.20	-14.87

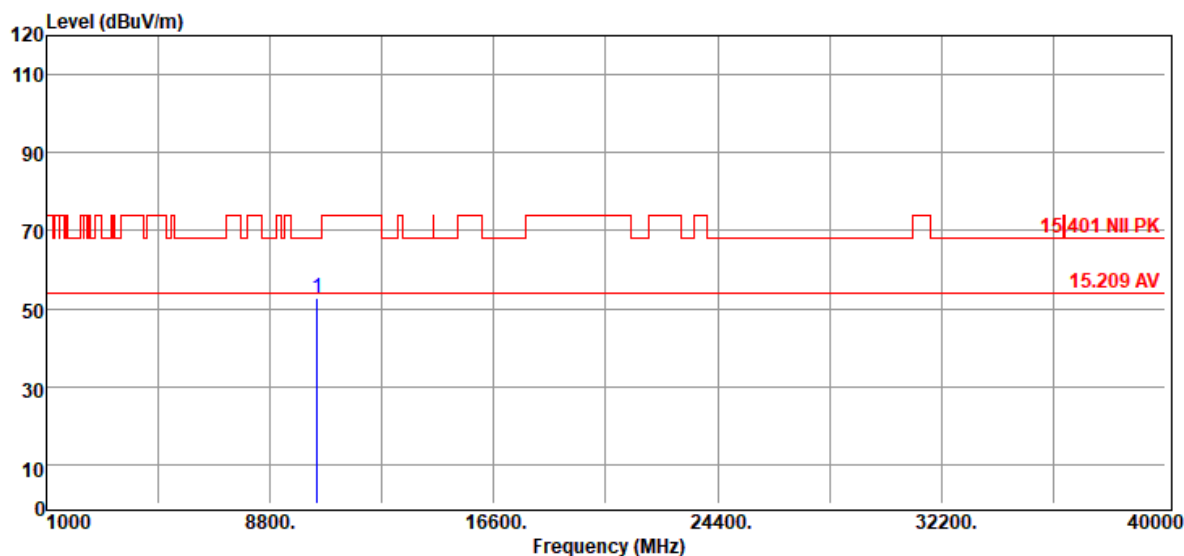
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Operation Band :802.11n20/Band 1
Fundamental Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :22/58
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	37.09	15.58	52.67	68.20	-15.53

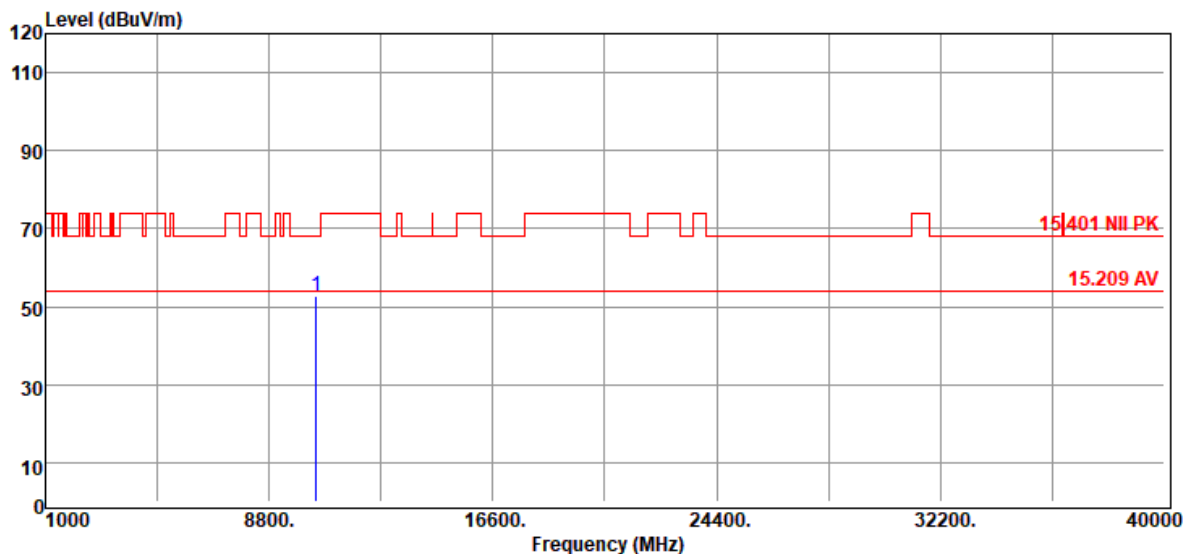
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Operation Band :802.11n20/Band 1
Fundamental Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :22/58
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	37.16	15.58	52.74	68.20	-15.46

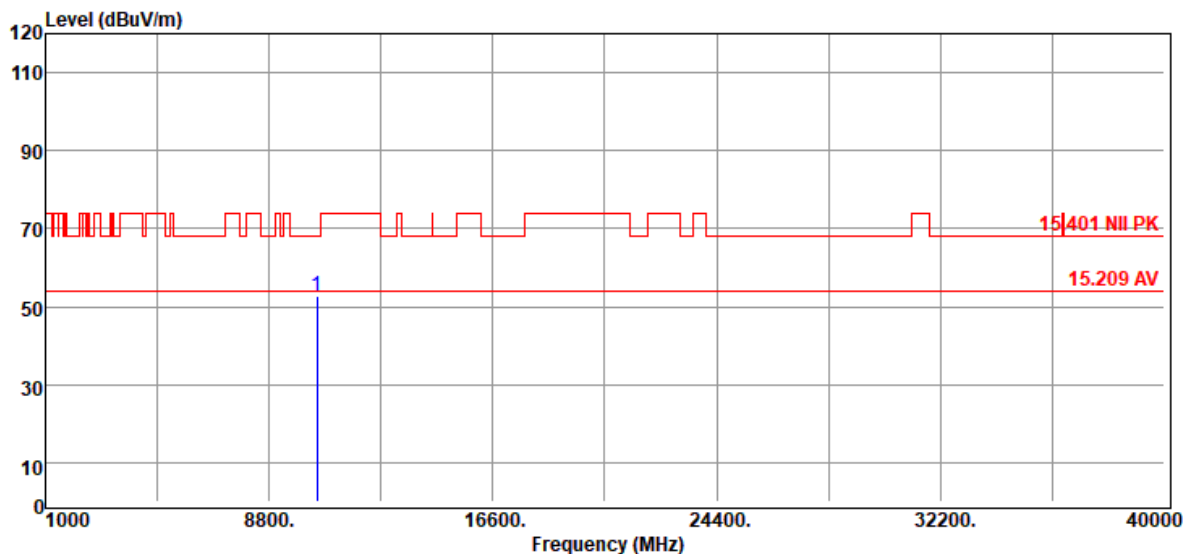
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Operation Band :802.11n20/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :22/58
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	36.13	16.48	52.61	68.20	-15.59

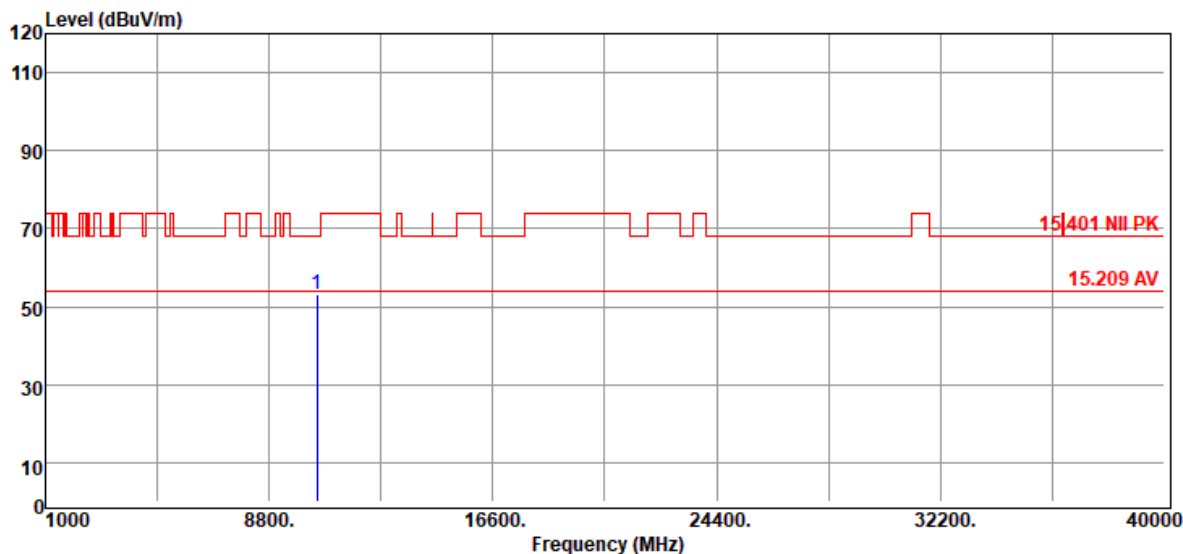
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Operation Band :802.11n20/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :22/58
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	36.56	16.48	53.04	68.20	-15.16

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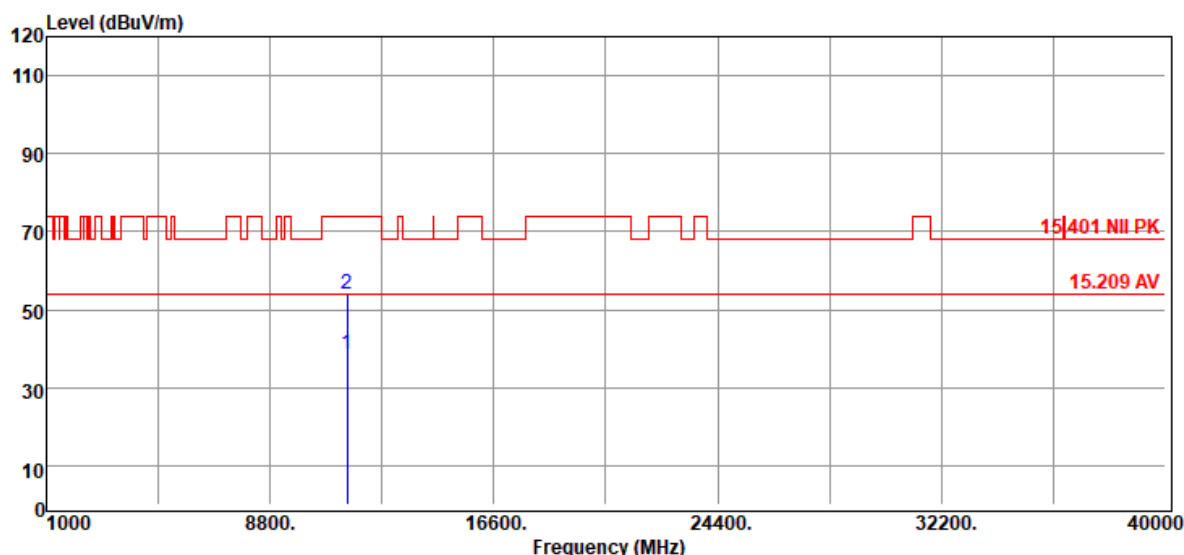
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802.11n HT20, 5725~5850 MHz

Operation Band :802.11n20/Band 4
Fundamental Frequency :5745 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	22.94	15.85	38.79	54.00	-15.21
11490.00	Peak	38.09	15.85	53.94	74.00	-20.06

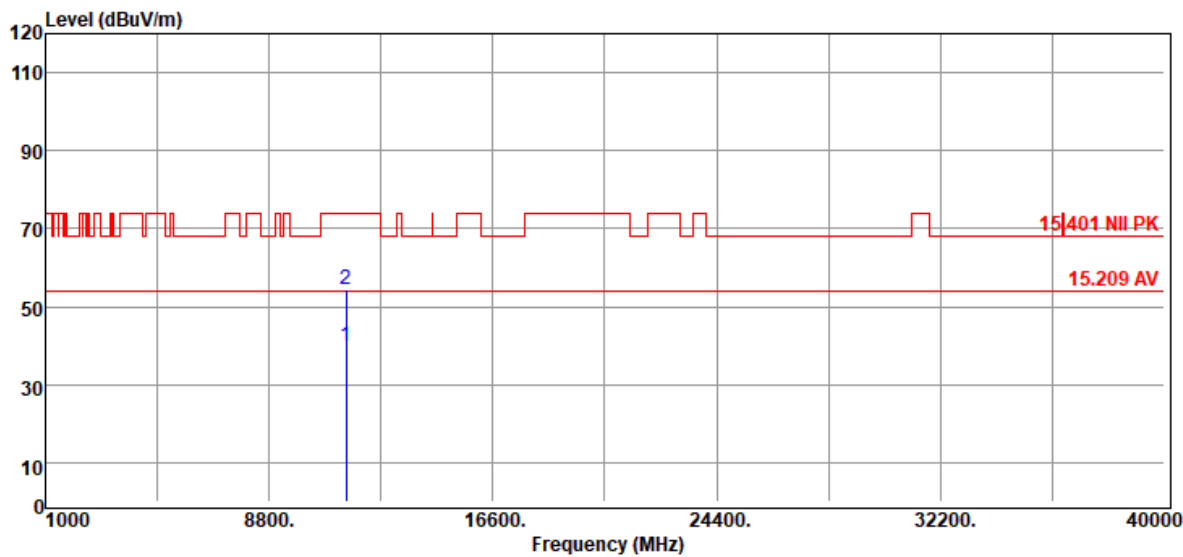
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5745 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	23.98	15.85	39.83	54.00	-14.17
11490.00	Peak	38.42	15.85	54.27	74.00	-19.73

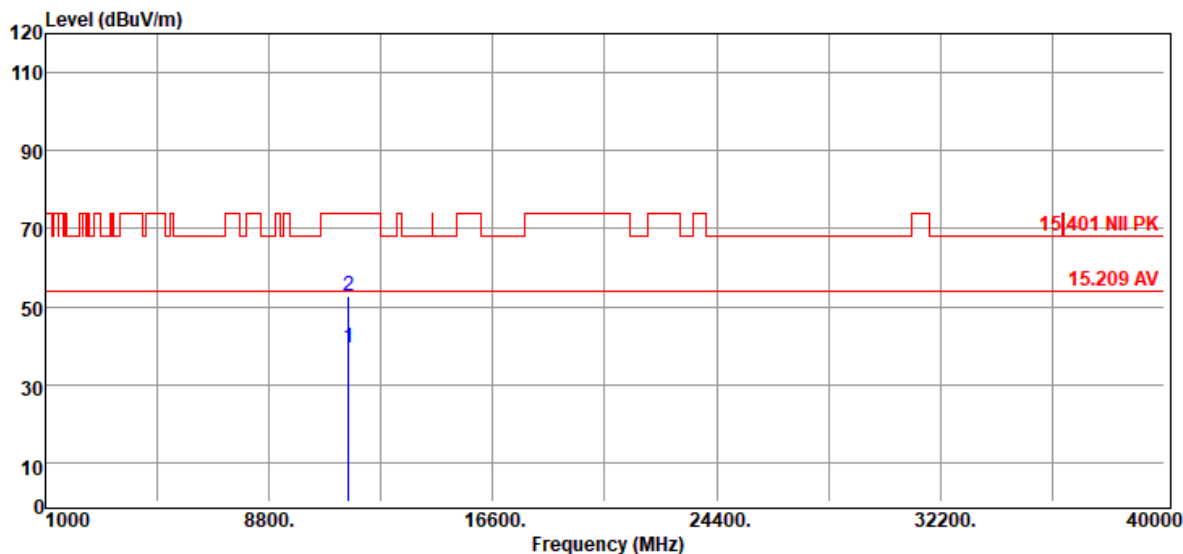
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	23.23	16.29	39.52	54.00	-14.48
11570.00	Peak	36.57	16.29	52.86	74.00	-21.14

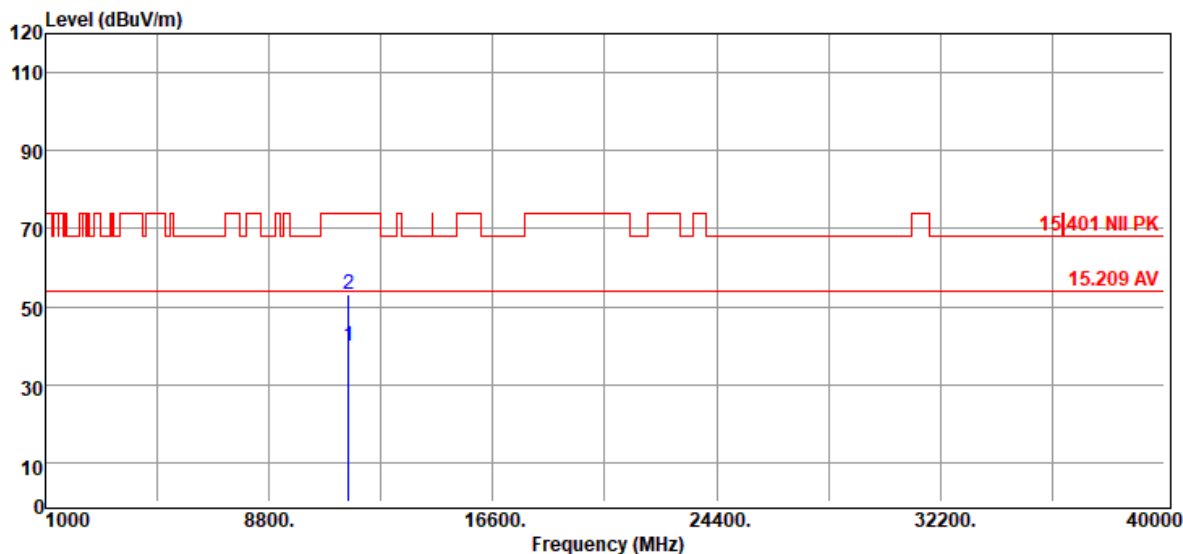
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	23.68	16.29	39.97	54.00	-14.03
11570.00	Peak	36.84	16.29	53.13	74.00	-20.87

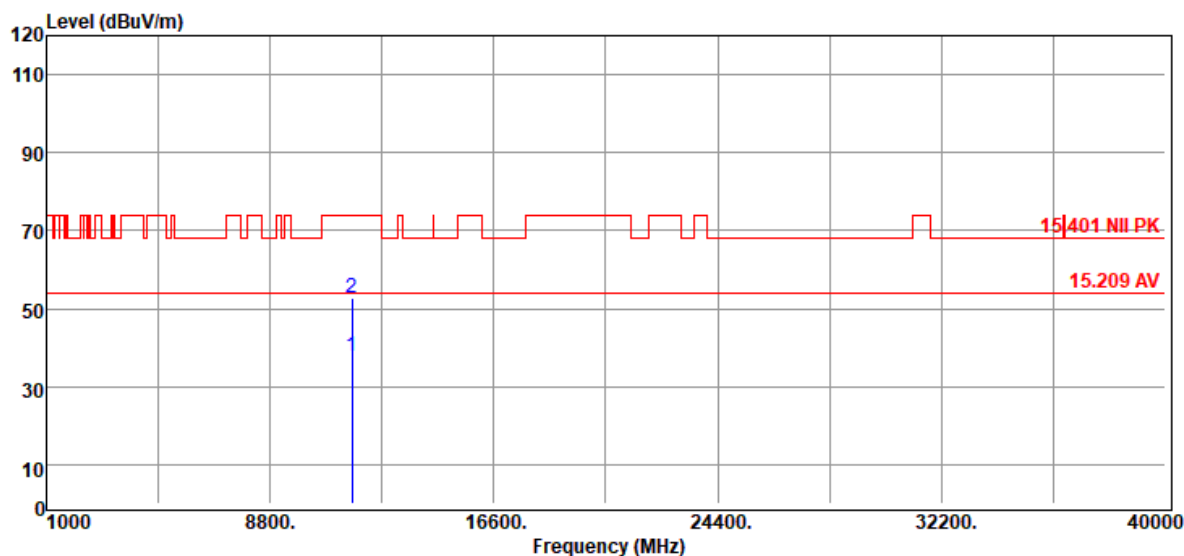
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :22/58
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	21.28	16.61	37.89	54.00	-16.11
11650.00	Peak	36.32	16.61	52.93	74.00	-21.07

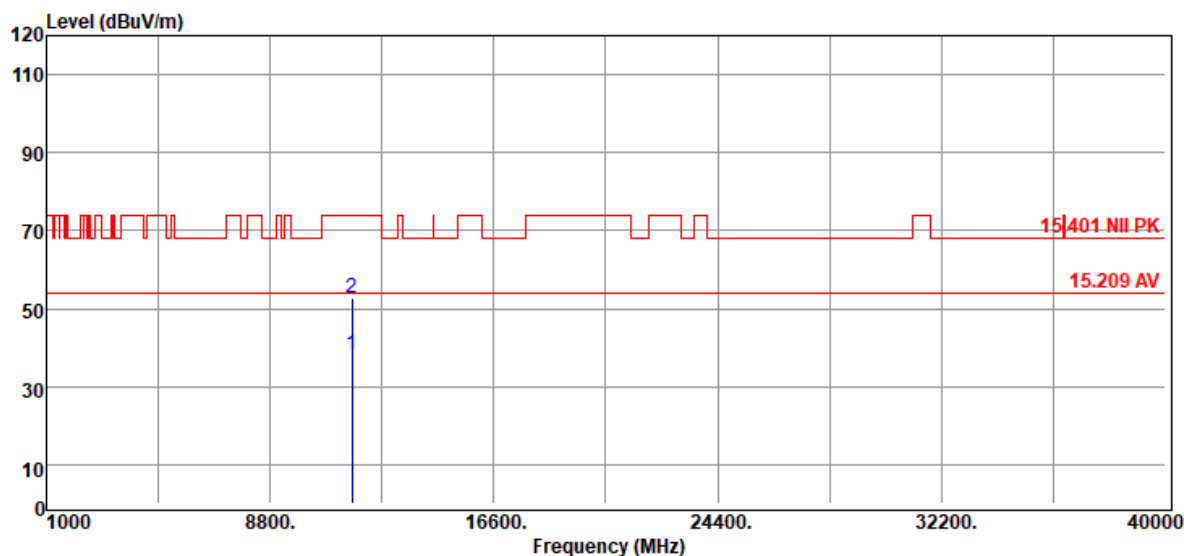
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :22/58
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	21.55	16.61	38.16	54.00	-15.84
11650.00	Peak	35.96	16.61	52.57	74.00	-21.43

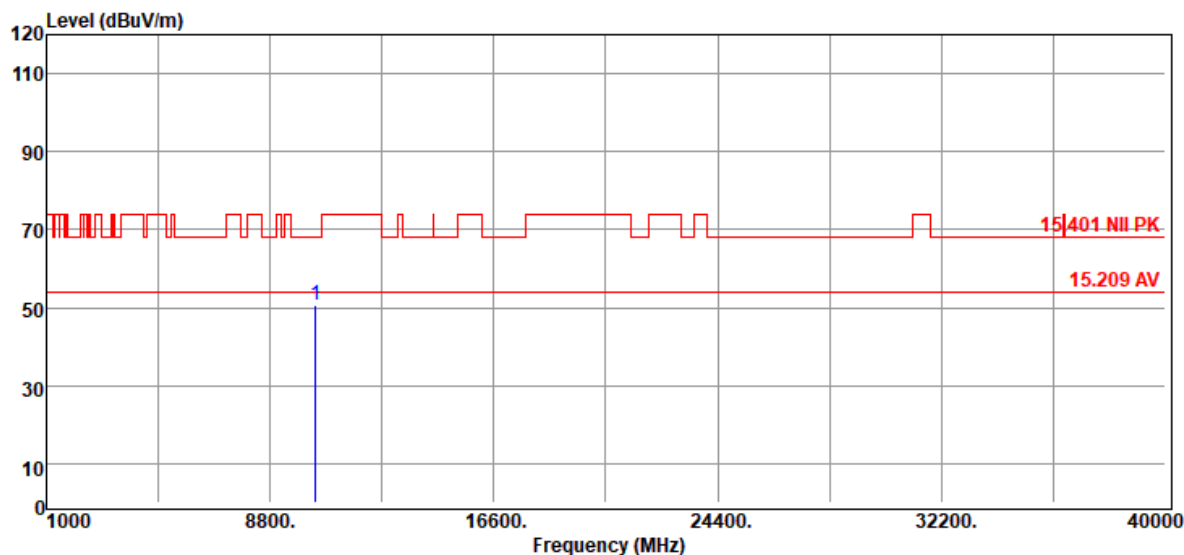
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40/Band 1	Test Date	:2019-03-18
Fundamental Frequency	:5190 MHz	Temp./Humi.	:24/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10380.00	Peak	36.19	14.58	50.77	68.20	-17.43

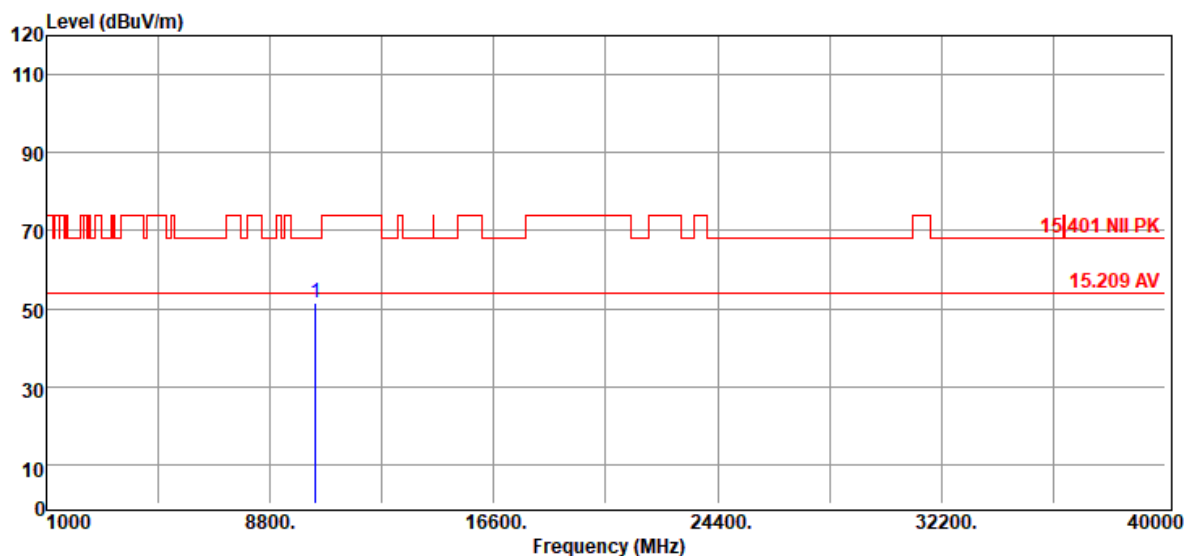
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Operation Band :802.11n40/Band 1
Fundamental Frequency :5190 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	Peak	36.99	14.58	51.57	68.20	-16.63

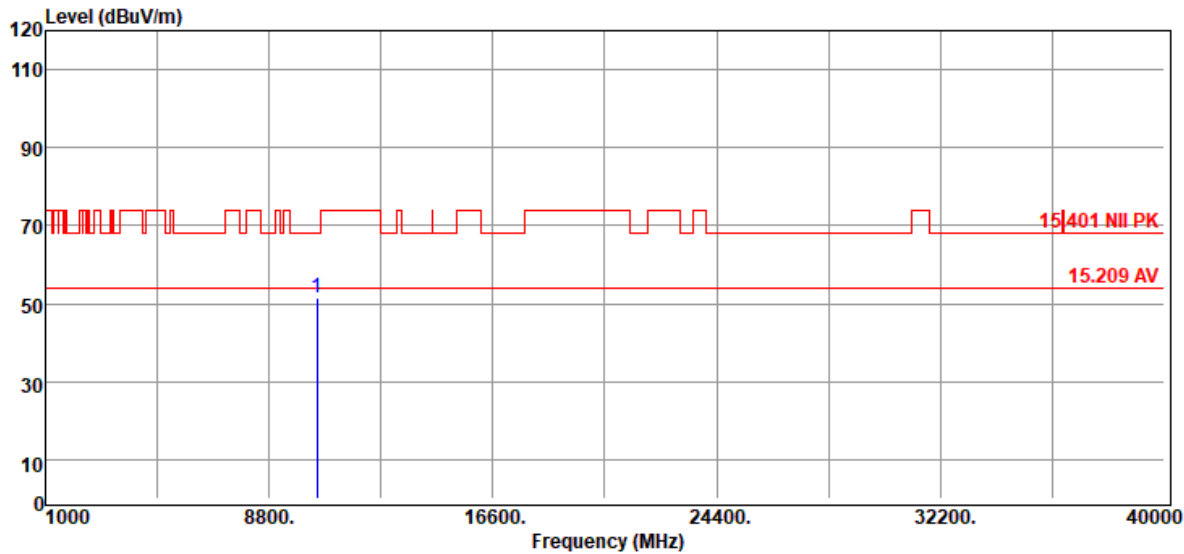
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Operation Band :802.11n40/Band 1
Fundamental Frequency :5230 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :21/57
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.00	Peak	35.33	15.97	51.30	68.20	-16.90

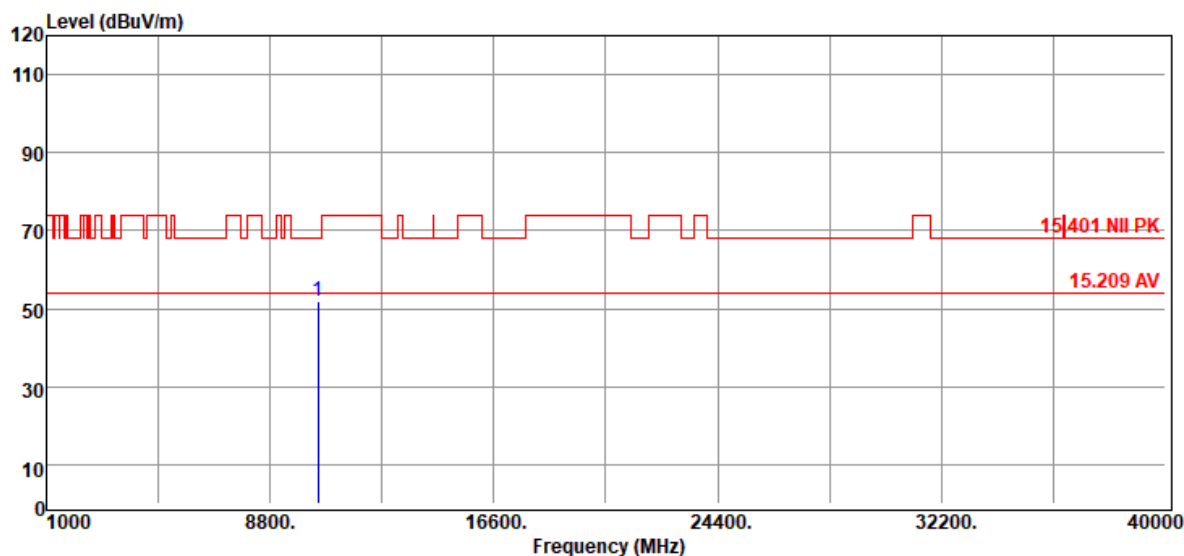
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Operation Band :802.11n40/Band 1
Fundamental Frequency :5230 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :21/57
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.00	Peak	35.80	15.97	51.77	68.20	-16.43

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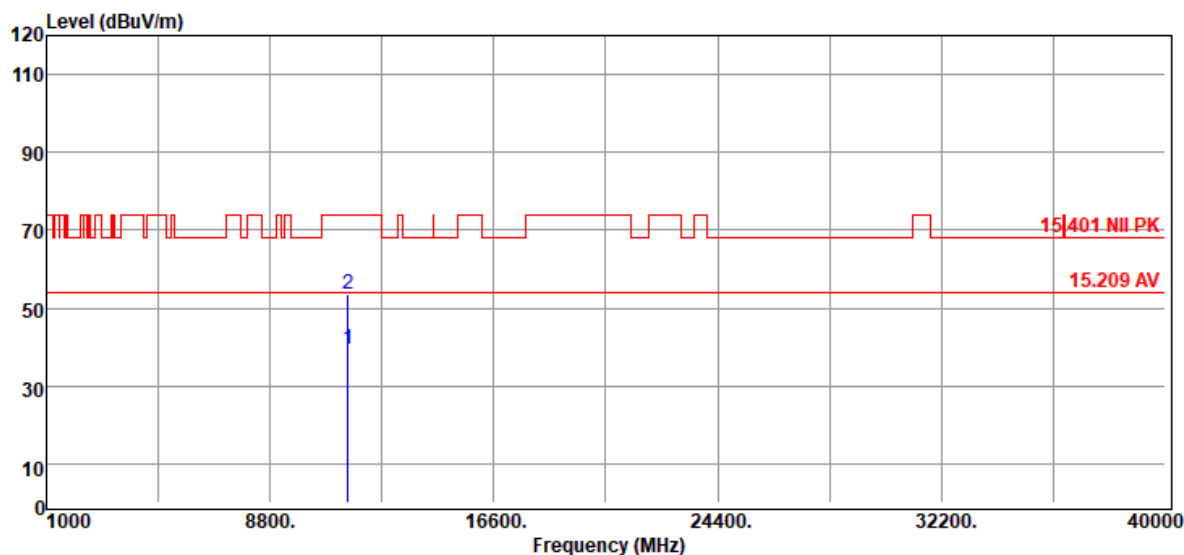
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802.11n HT40, 5725~5850 MHz

Operation Band :802.11n40/Band 4
Fundamental Frequency :5755 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :21/57
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11510.00	Average	24.22	15.41	39.63	54.00	-14.37
11510.00	Peak	38.20	15.41	53.61	74.00	-20.39

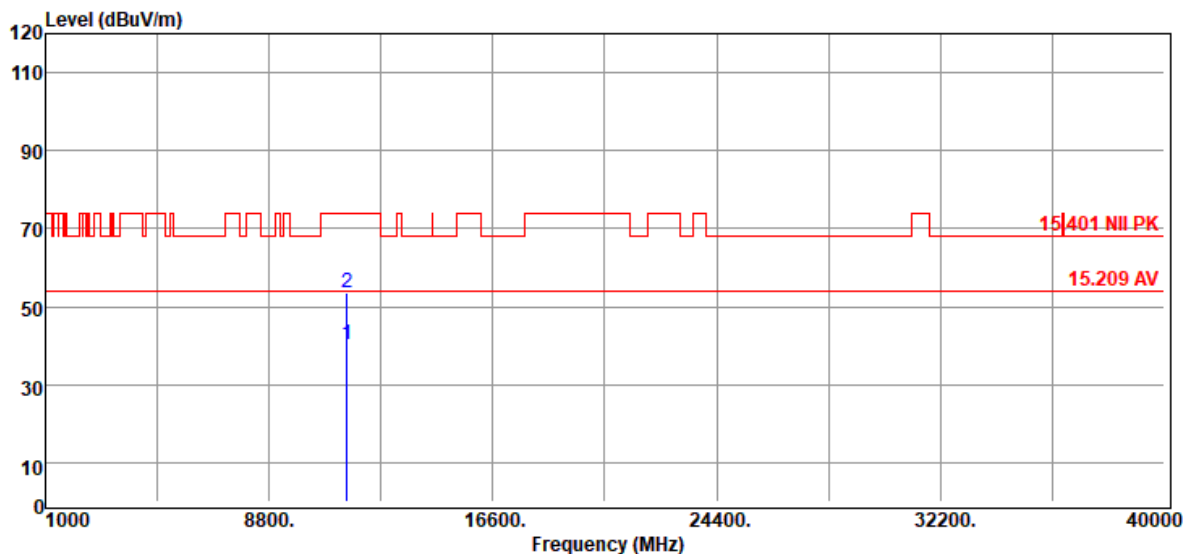
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Operation Band :802.11n40/Band 4
Fundamental Frequency :5755 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11510.00	Average	24.85	15.41	40.26	54.00	-13.74
11510.00	Peak	38.15	15.41	53.56	74.00	-20.44

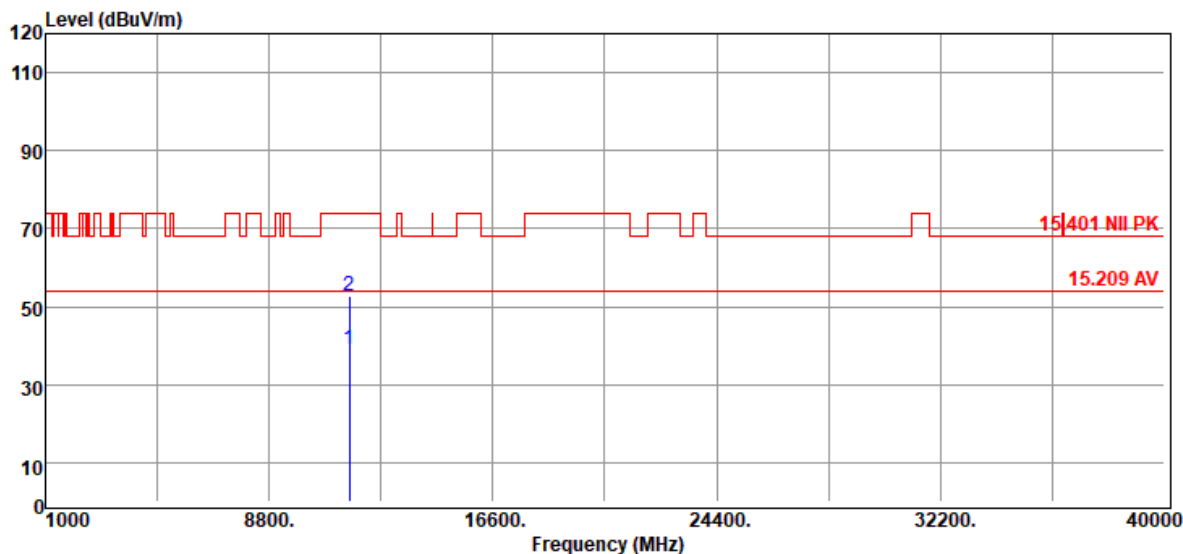
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Operation Band :802.11n40/Band 4
Fundamental Frequency :5795 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.00	Average	22.16	16.81	38.97	54.00	-15.03
11590.00	Peak	35.73	16.81	52.54	74.00	-21.46

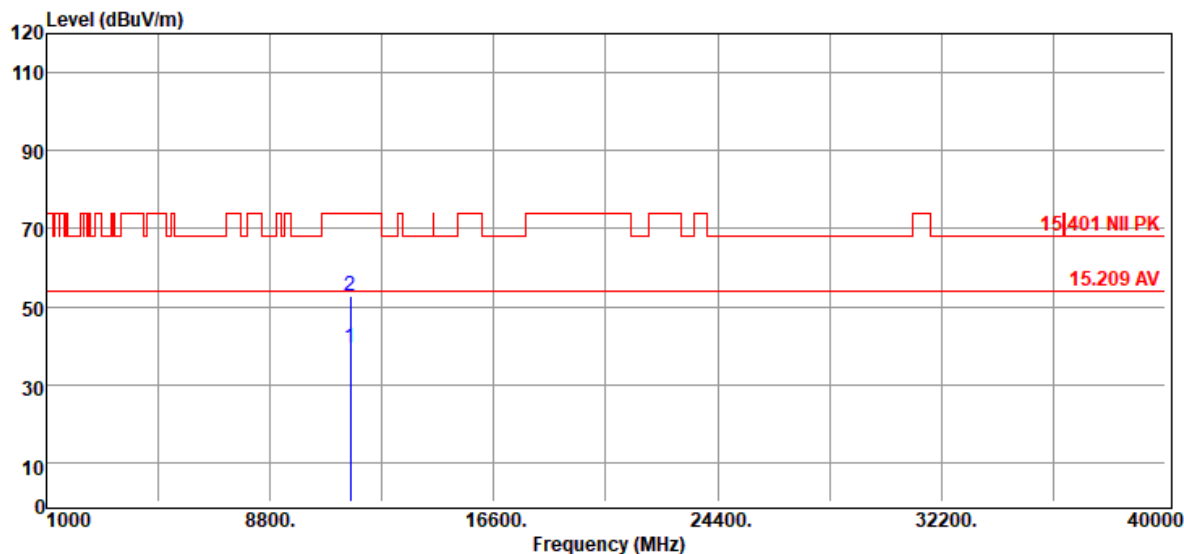
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Operation Band :802.11n40/Band 4
Fundamental Frequency :5795 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-18
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.00	Average	22.73	16.81	39.54	54.00	-14.46
11590.00	Peak	35.76	16.81	52.57	74.00	-21.43

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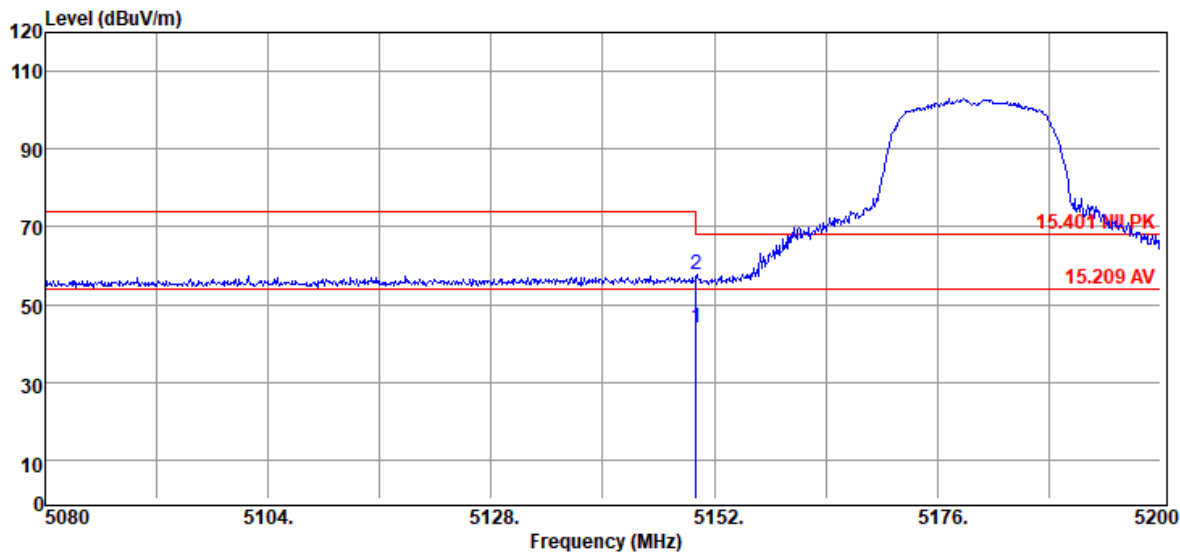
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Band edge falling to restricted band

802.11a mode

Operation Band :802.11a/Band 1
Fundamental Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :23/59
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	39.39	4.55	43.94	54.00	-10.06
5150.00	Peak	53.32	4.55	57.87	68.20	-10.33

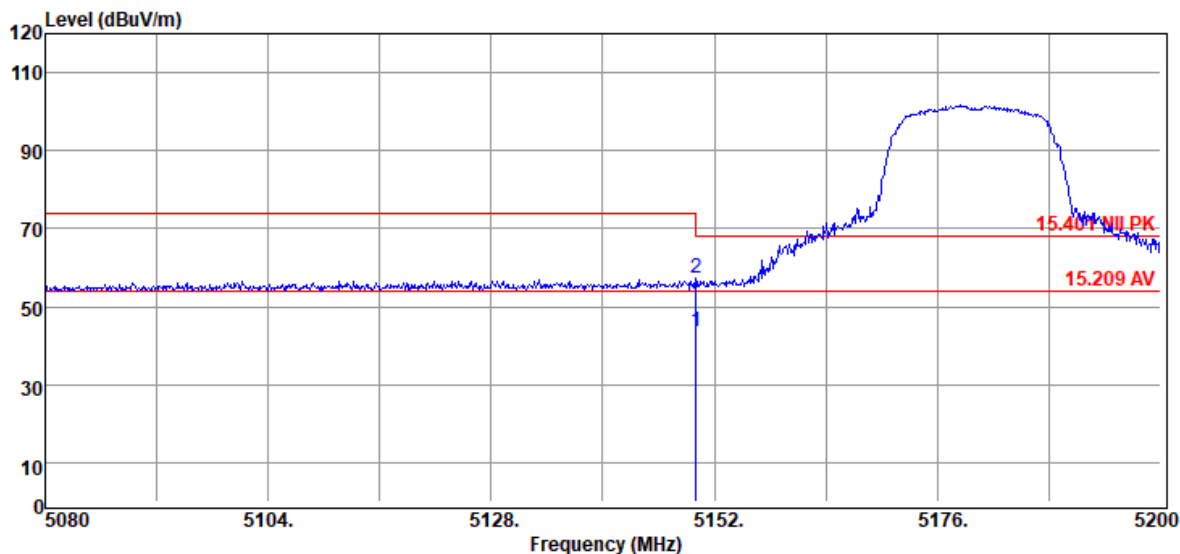
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Operation Band :802.11a/Band 1
Fundamental Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :23/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	39.24	4.55	43.79	54.00	-10.21
5150.00	Peak	52.71	4.55	57.26	68.20	-10.94

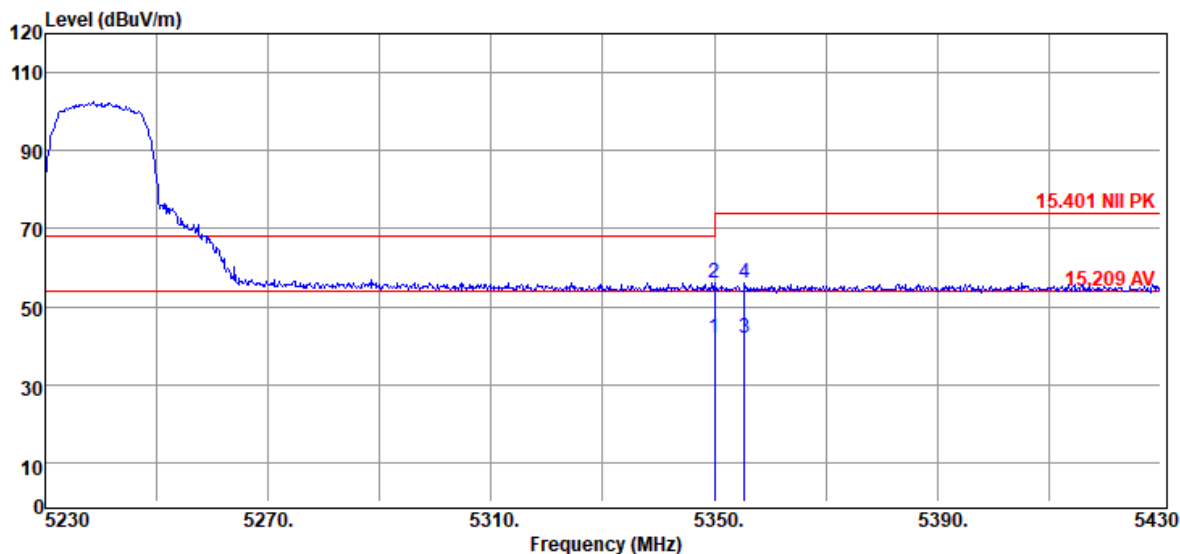
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Operation Band :802.11a/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	36.60	5.19	41.79	54.00	-12.21
5350.00	Peak	50.67	5.19	55.86	68.20	-12.34
5355.40	Average	36.62	5.21	41.83	54.00	-12.17
5355.40	Peak	50.76	5.21	55.97	74.00	-18.03

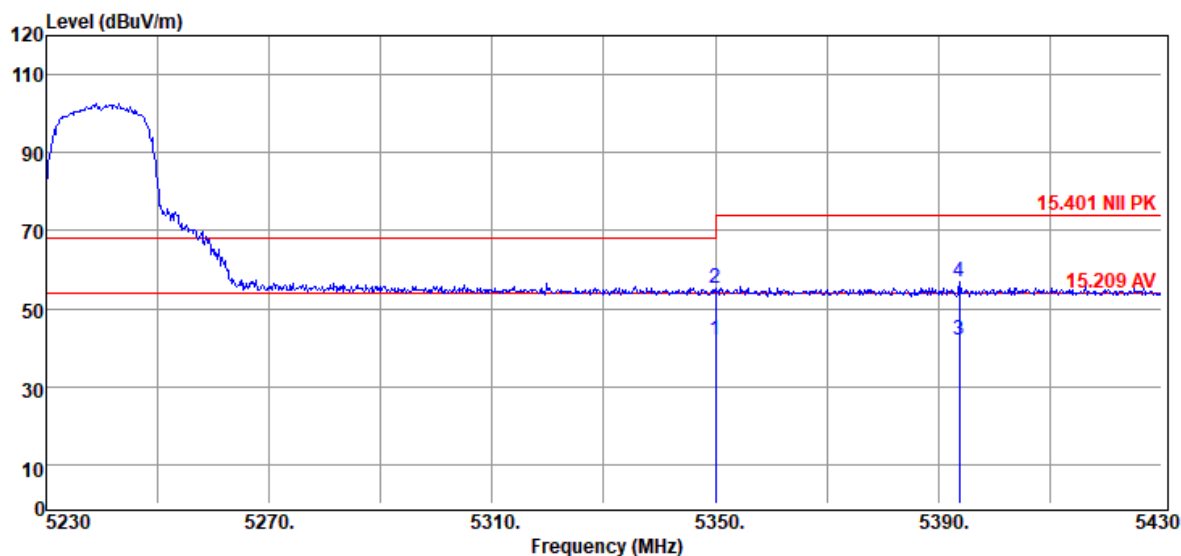
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Operation Band :802.11a/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



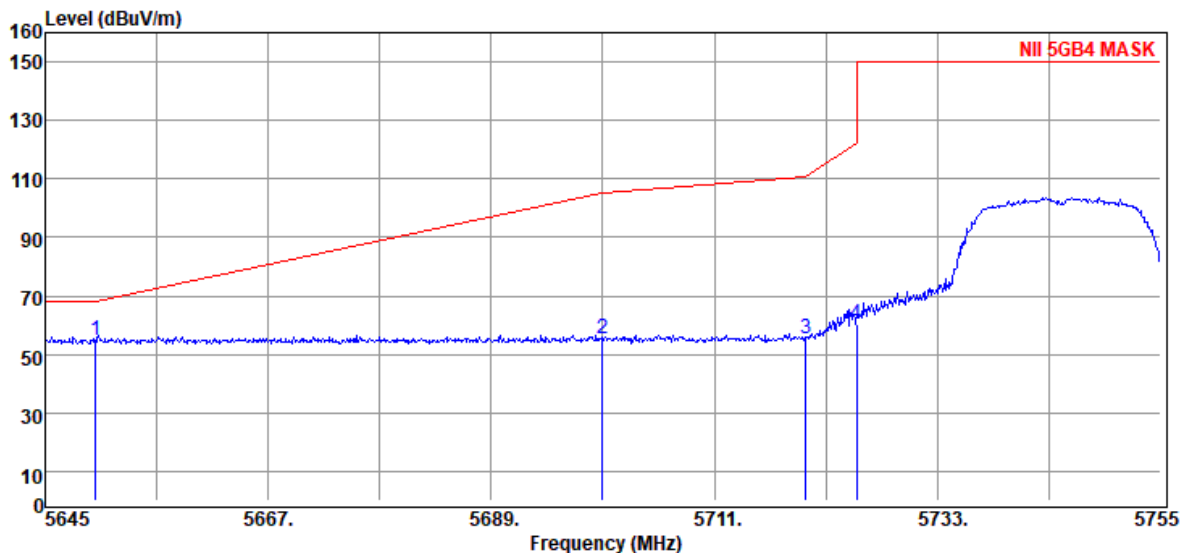
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	36.90	5.19	42.09	54.00	-11.91
5350.00	Peak	50.24	5.19	55.43	68.20	-12.77
5393.80	Average	36.52	5.57	42.09	54.00	-11.91
5393.80	Peak	51.37	5.57	56.94	74.00	-17.06

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Operation Band	:802.11a/Band 4	Test Date	:2019-03-15
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23/58
Operation Mode	:BE CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	48.88	5.91	54.79	68.20	-13.41
5700.00	Peak	48.66	6.43	55.09	105.20	-50.11
5720.00	Peak	48.95	6.55	55.50	110.80	-55.30
5725.00	Peak	54.00	6.55	60.55	122.20	-61.65

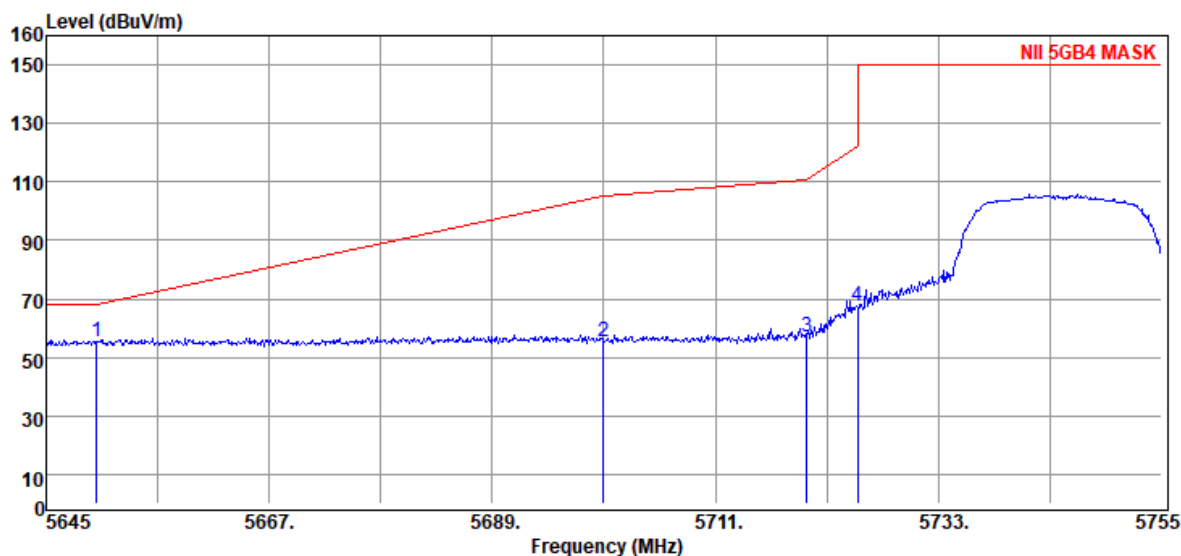
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Operation Band :802.11a/Band 4
Fundamental Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :23/58
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.55	5.91	55.46	68.20	-12.74
5700.00	Peak	49.13	6.43	55.56	105.20	-49.64
5720.00	Peak	50.59	6.55	57.14	110.80	-53.66
5725.00	Peak	61.16	6.55	67.71	122.20	-54.49

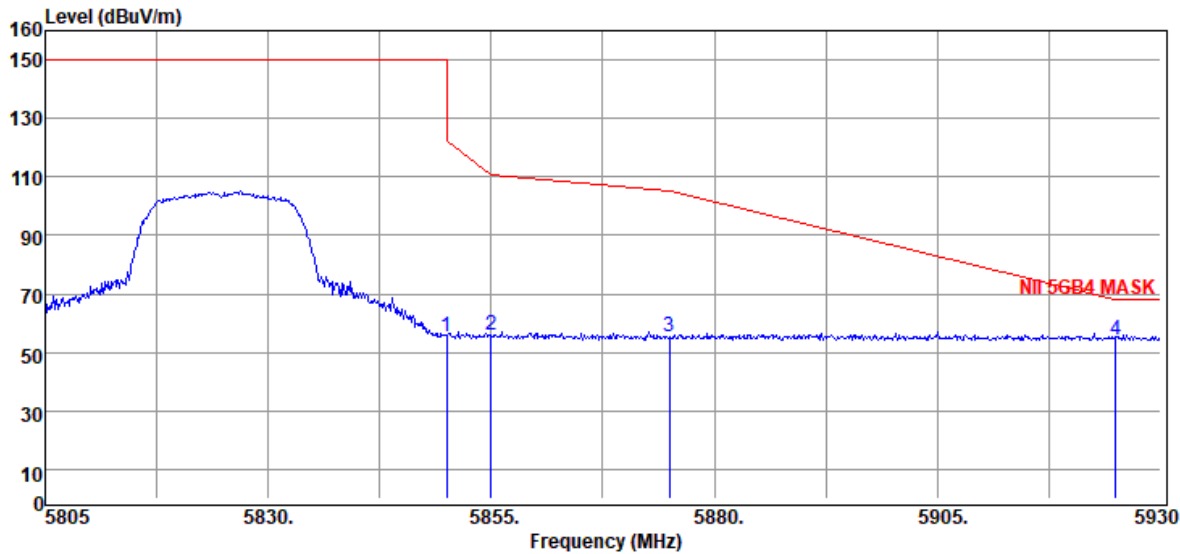
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Operation Band :802.11a/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.00	Peak	48.74	6.41	55.15	122.20	-67.05
5855.00	Peak	49.31	6.43	55.74	110.80	-55.06
5875.00	Peak	48.63	6.49	55.12	105.20	-50.08
5925.00	Peak	48.02	6.44	54.46	68.20	-13.74

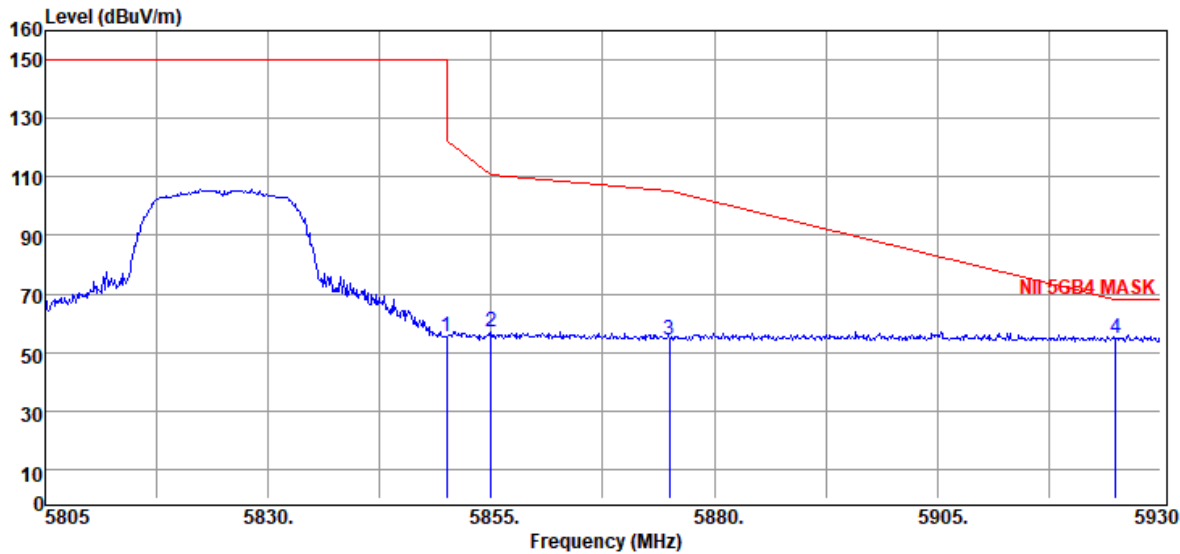
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Operation Band :802.11a/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	48.93	6.41	55.34	122.20	-66.86
5855.00	Peak	50.52	6.43	56.95	110.80	-53.85
5875.00	Peak	47.79	6.49	54.28	105.20	-50.92
5925.00	Peak	48.62	6.44	55.06	68.20	-13.14

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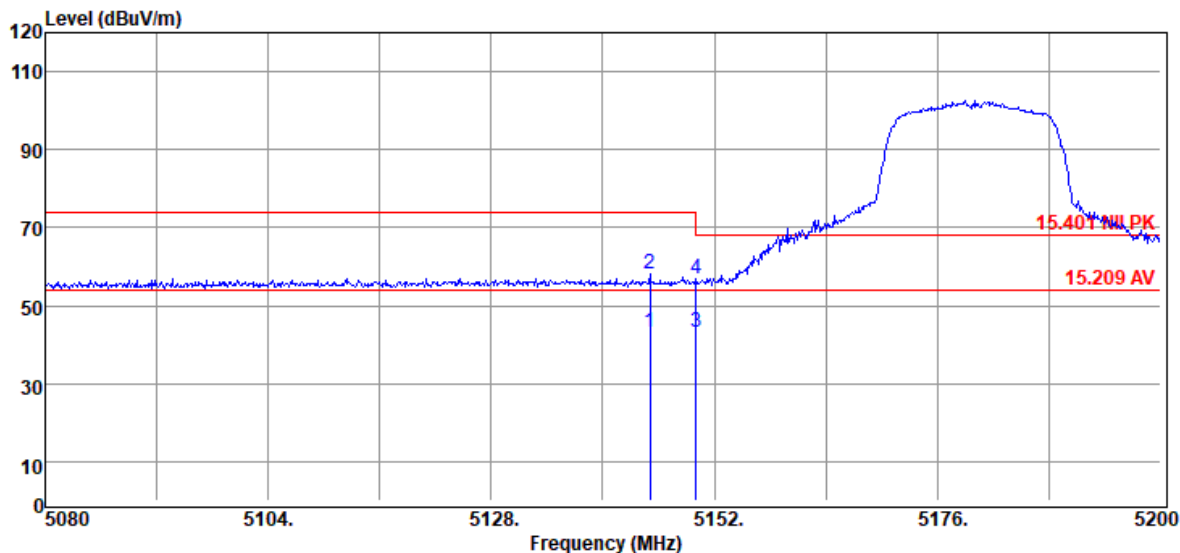
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802.11n20 HT mode

Operation Band :802.11n20/Band 1
Fundamental Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



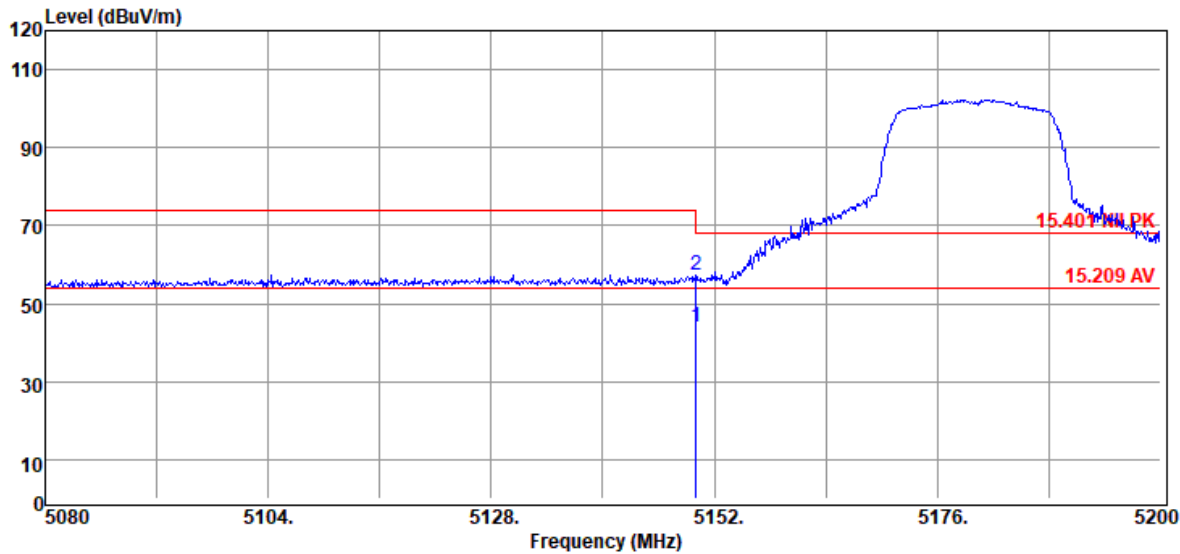
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5145.04	Average	38.79	4.55	43.34	54.00	-10.66
5145.04	Peak	53.48	4.55	58.03	74.00	-15.97
5150.00	Average	38.81	4.55	43.36	54.00	-10.64
5150.00	Peak	52.24	4.55	56.79	68.20	-11.41

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Operation Band	:802.11n20/Band 1	Test Date	:2019-03-15
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24/59
Operation Mode	:BE CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

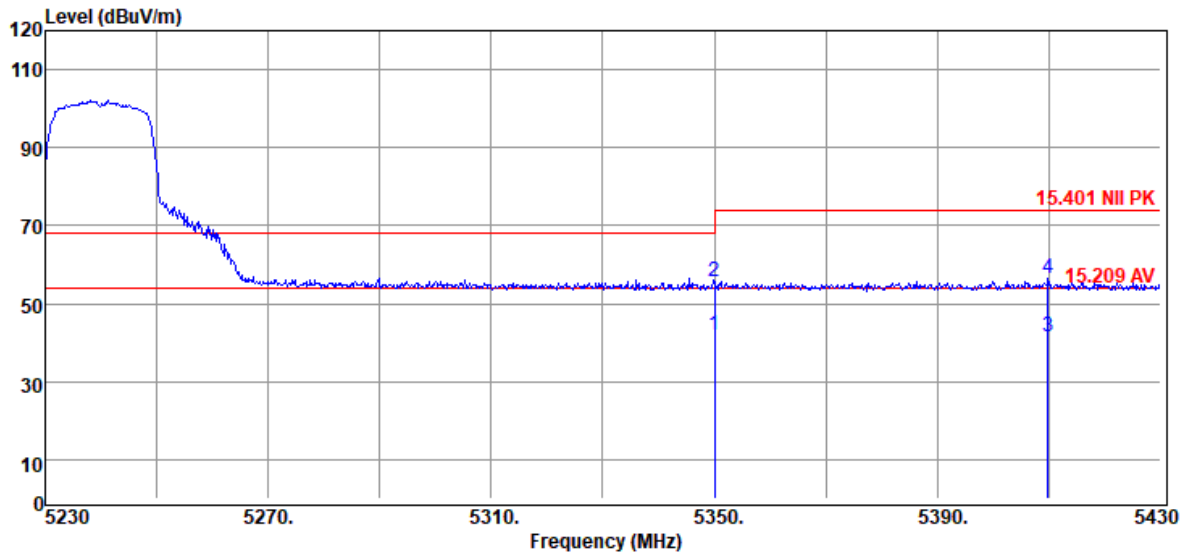


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	39.59	4.55	44.14	54.00	-9.86
5150.00	Peak	52.76	4.55	57.31	68.20	-10.89

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Operation Band :802.11n20/Band 1
Fundamental Frequency :5240 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



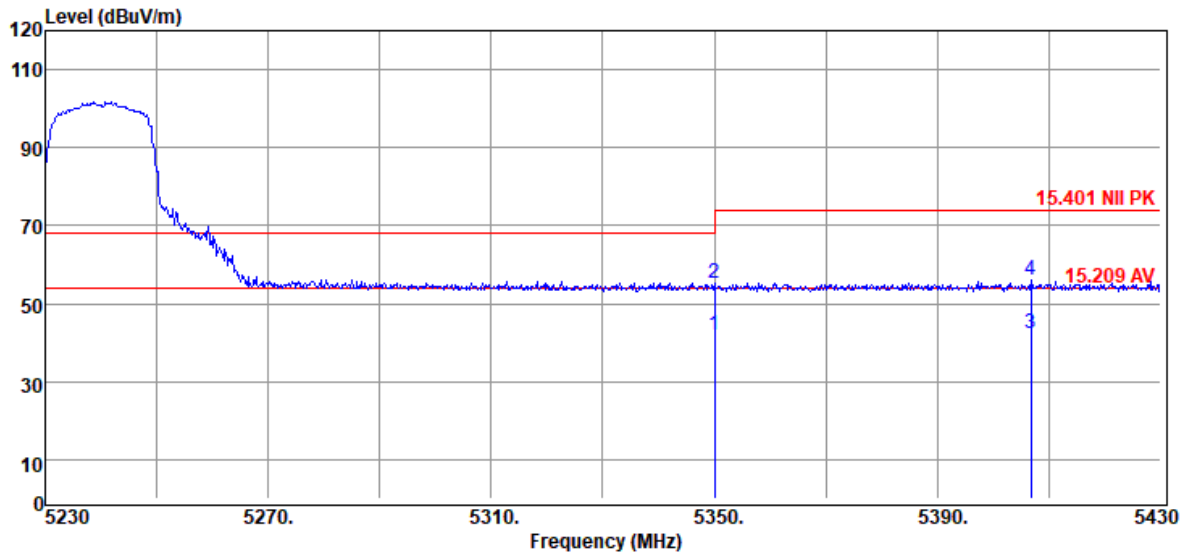
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	36.79	5.19	41.98	54.00	-12.02
5350.00	Peak	50.53	5.19	55.72	68.20	-12.48
5409.80	Average	35.70	5.63	41.33	54.00	-12.67
5409.80	Peak	50.90	5.63	56.53	74.00	-17.47

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Operation Band	:802.11n20/Band 1	Test Date	:2019-03-15
Fundamental Frequency	:5240 MHz	Temp./Humi.	:24/60
Operation Mode	:BE CH HIGH	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



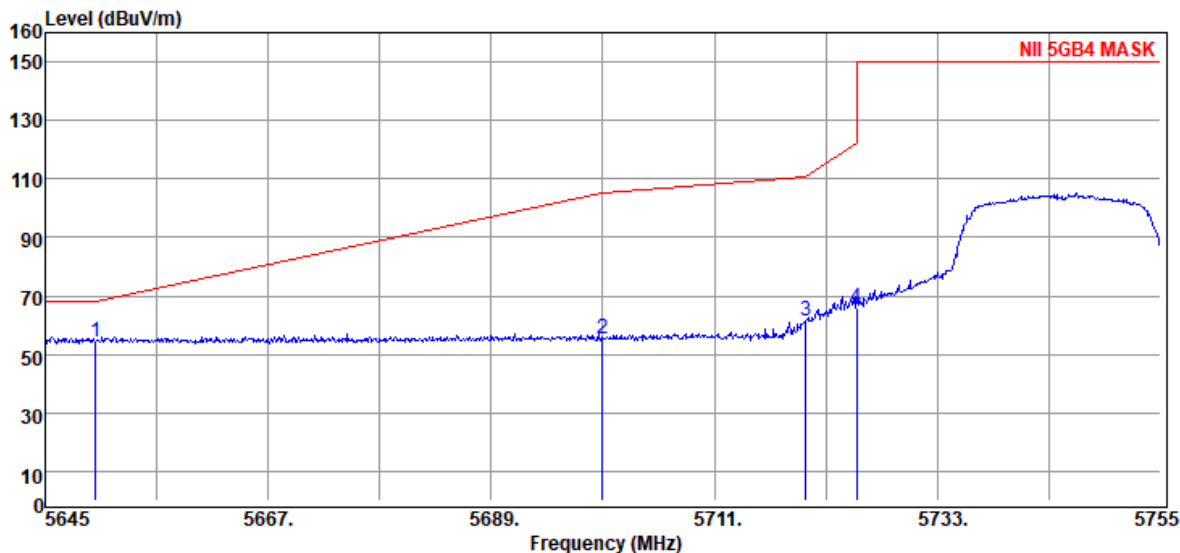
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	36.85	5.19	42.04	54.00	-11.96
5350.00	Peak	50.08	5.19	55.27	68.20	-12.93
5406.80	Average	36.52	5.63	42.15	54.00	-11.85
5406.80	Peak	50.23	5.63	55.86	74.00	-18.14

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Operation Band	:802.11n20/Band 4	Test Date	:2019-03-15
Fundamental Frequency	:5745 MHz	Temp./Humi.	:24/60
Operation Mode	:BE CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

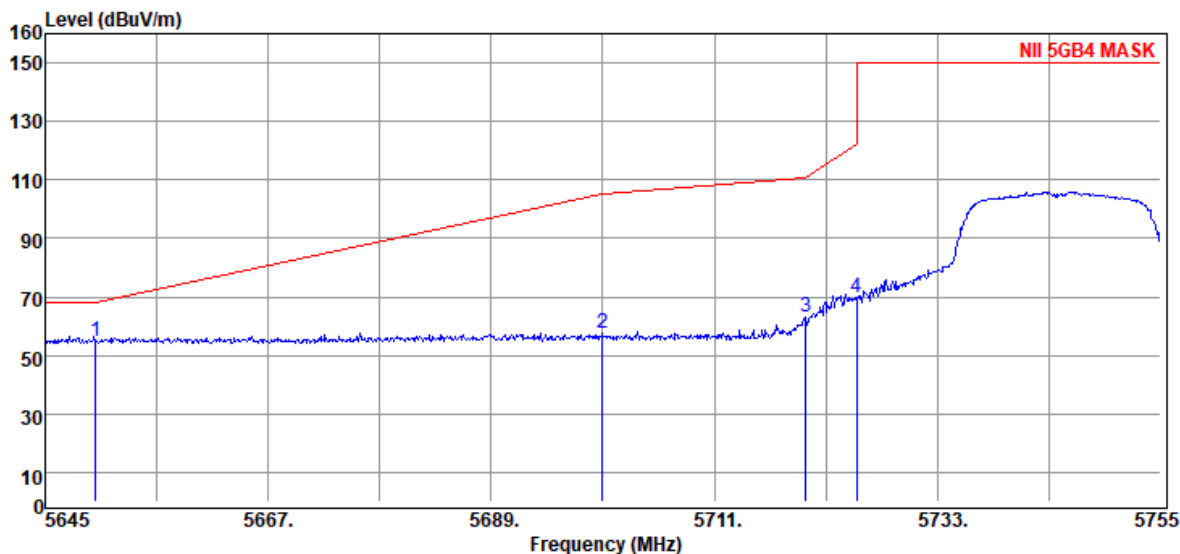


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	48.37	5.91	54.28	68.20	-13.92
5700.00	Peak	48.71	6.43	55.14	105.20	-50.06
5720.00	Peak	54.74	6.55	61.29	110.80	-49.51
5725.00	Peak	59.53	6.55	66.08	122.20	-56.12

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Operation Band :802.11n20/Band 4
Fundamental Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.03	5.91	54.94	68.20	-13.26
5700.00	Peak	50.96	6.43	57.39	105.20	-47.81
5720.00	Peak	56.44	6.55	62.99	110.80	-47.81
5725.00	Peak	63.31	6.55	69.86	122.20	-52.34

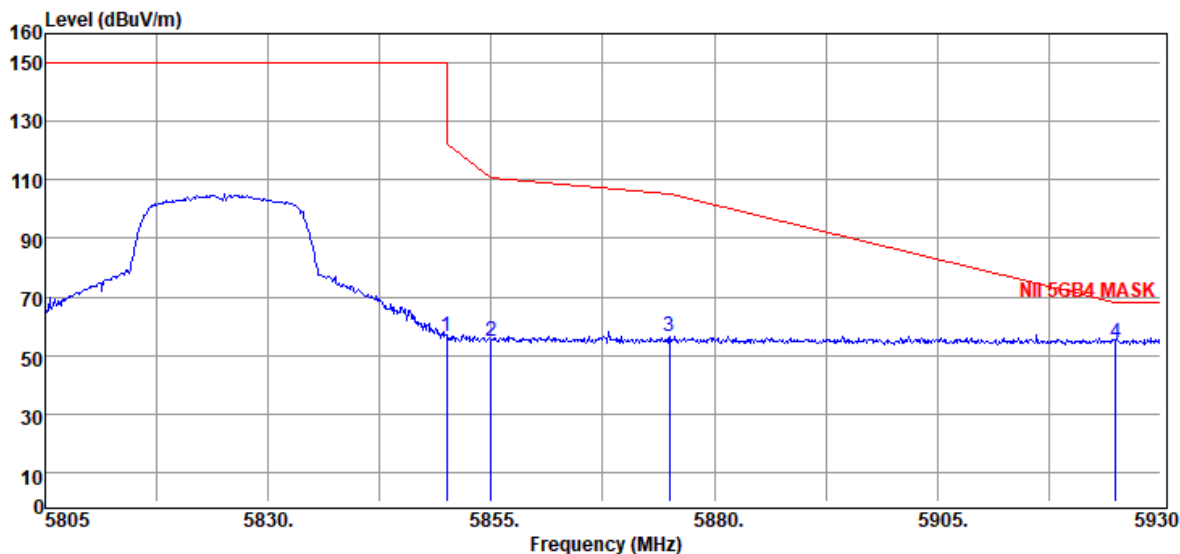
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	50.04	6.41	56.45	122.20	-65.75
5855.00	Peak	48.60	6.43	55.03	110.80	-55.77
5875.00	Peak	50.21	6.49	56.70	105.20	-48.50
5925.00	Peak	47.90	6.44	54.34	68.20	-13.86

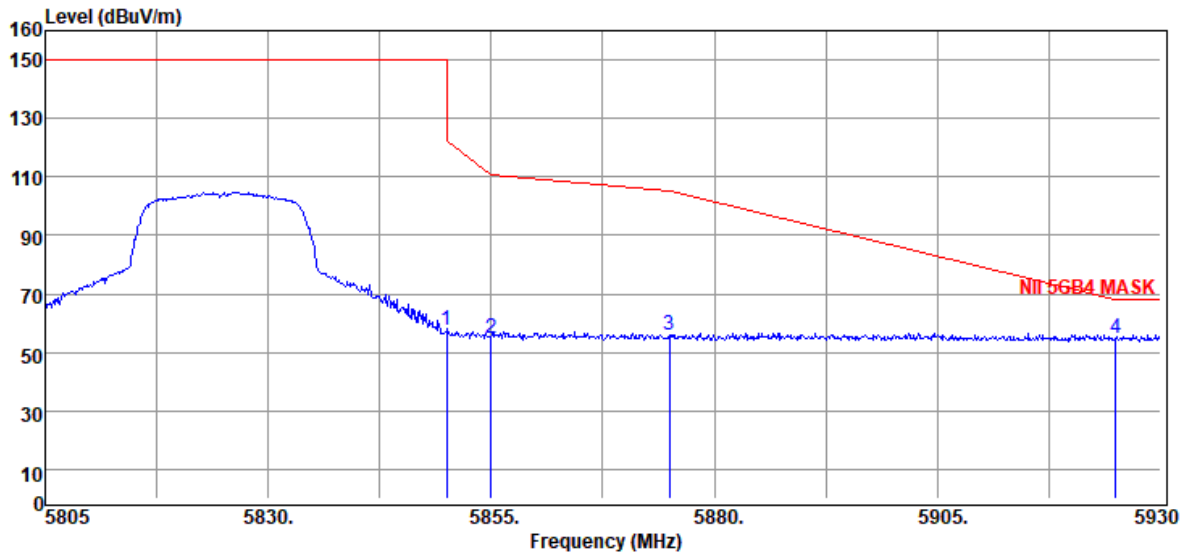
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Operation Band :802.11n20/Band 4
Fundamental Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	51.21	6.41	57.62	122.20	-64.58
5855.00	Peak	48.62	6.43	55.05	110.80	-55.75
5875.00	Peak	49.47	6.49	55.96	105.20	-49.24
5925.00	Peak	48.42	6.44	54.86	68.20	-13.34

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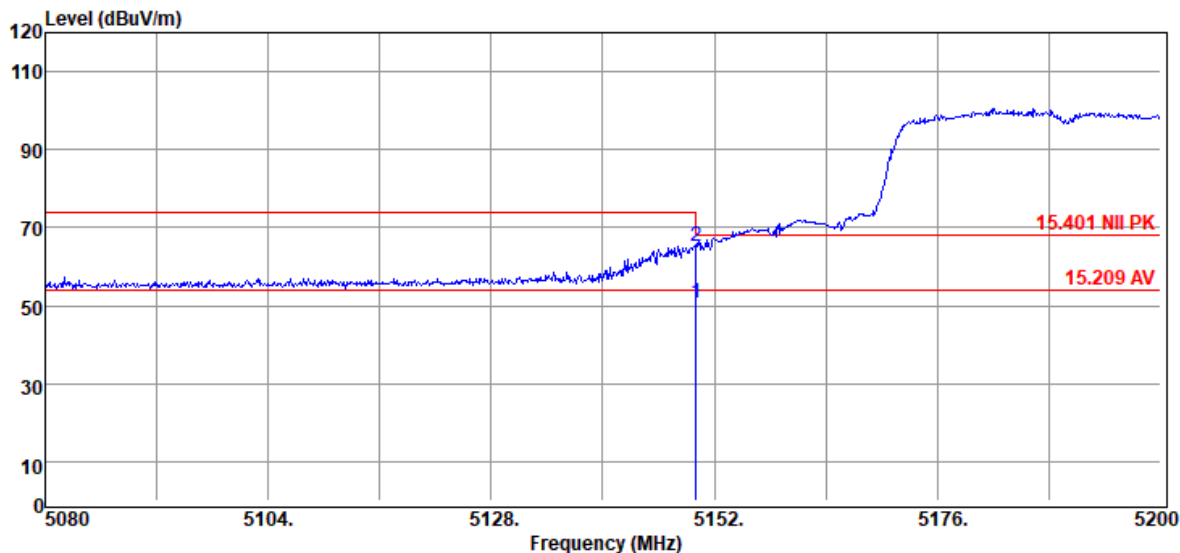
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802.11n40 HT mode

Operation Band :802.11n40/Band 1
Fundamental Frequency :5190 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	46.00	4.55	50.55	54.00	-3.45
5150.00	Peak	60.61	4.55	65.16	68.20	-3.04

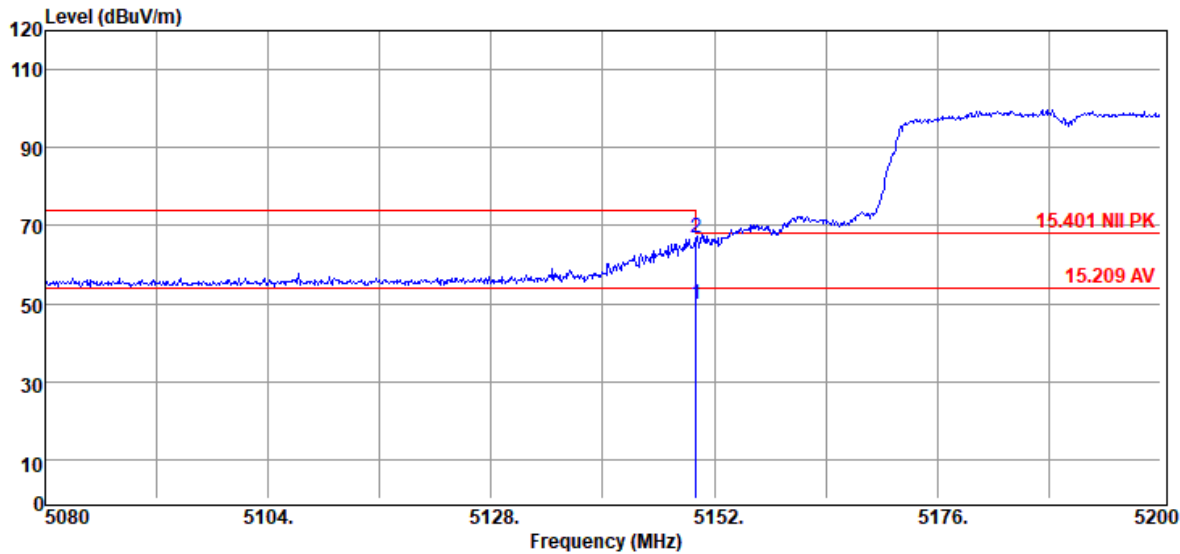
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Operation Band :802.11n40/Band 1
Fundamental Frequency :5190 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	45.15	4.55	49.70	54.00	-4.30
5150.00	Peak	62.11	4.55	66.66	68.20	-1.54

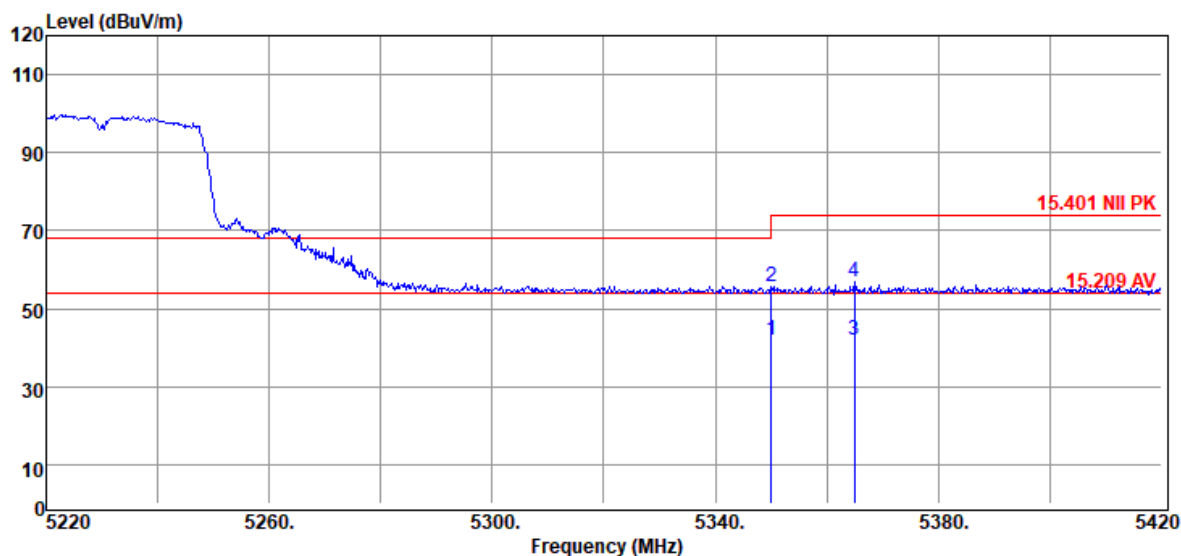
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Operation Band :802.11n40/Band 1
Fundamental Frequency :5230 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	36.83	5.19	42.02	54.00	-11.98
5350.00	Peak	50.44	5.19	55.63	68.20	-12.57
5365.00	Average	36.61	5.26	41.87	54.00	-12.13
5365.00	Peak	51.43	5.26	56.69	74.00	-17.31

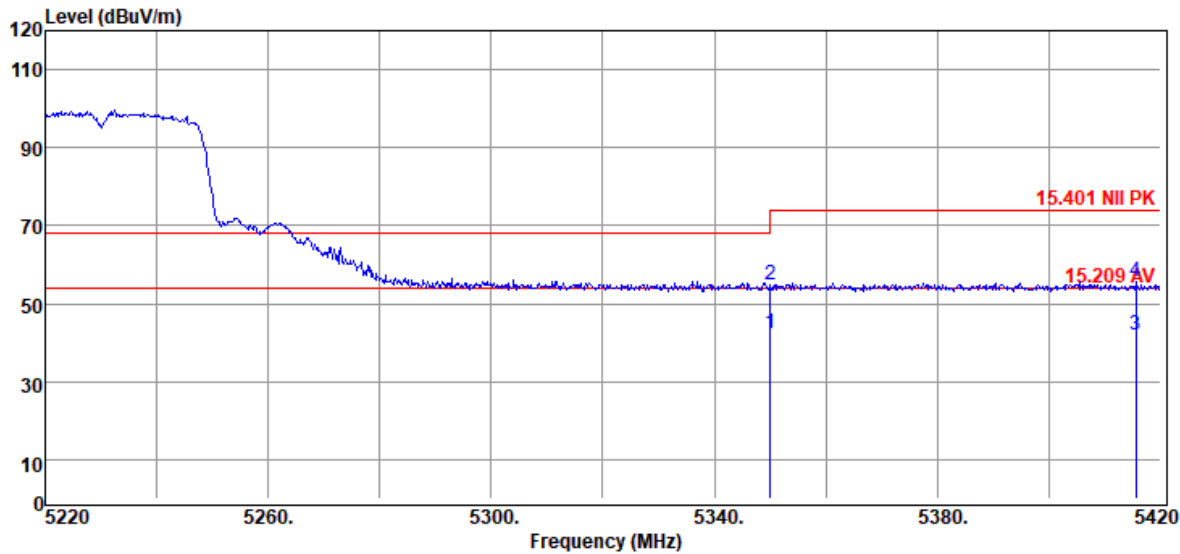
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Operation Band :802.11n40/Band 1
Fundamental Frequency :5230 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.00	5.19	42.19	54.00	-11.81
5350.00	Peak	49.68	5.19	54.87	68.20	-13.33
5415.60	Average	36.49	5.63	42.12	54.00	-11.88
5415.60	Peak	50.07	5.63	55.70	74.00	-18.30

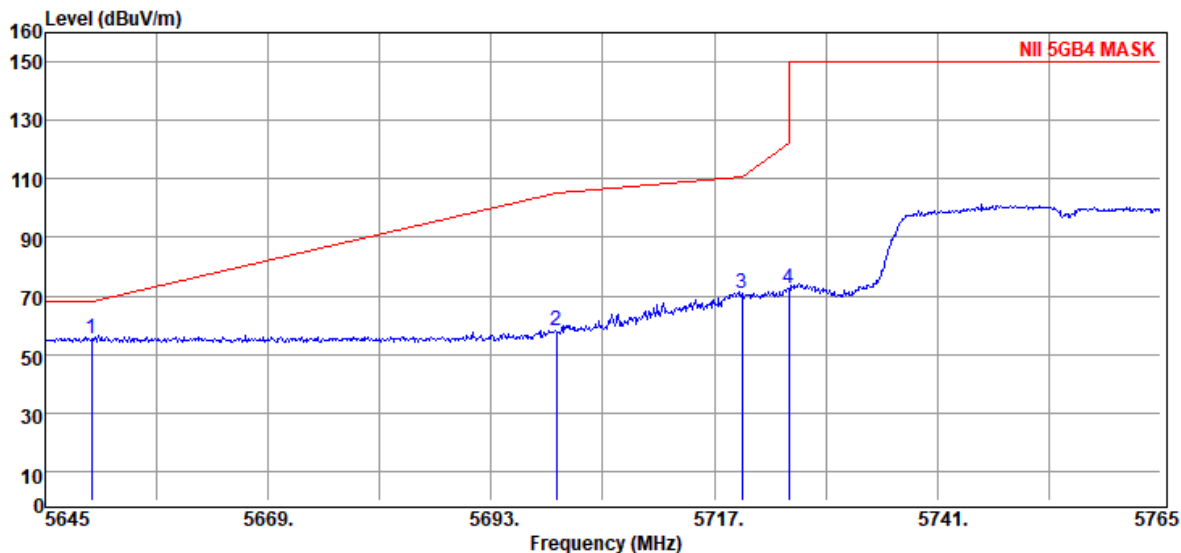
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Operation Band :802.11n40/Band 4
Fundamental Frequency :5755 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



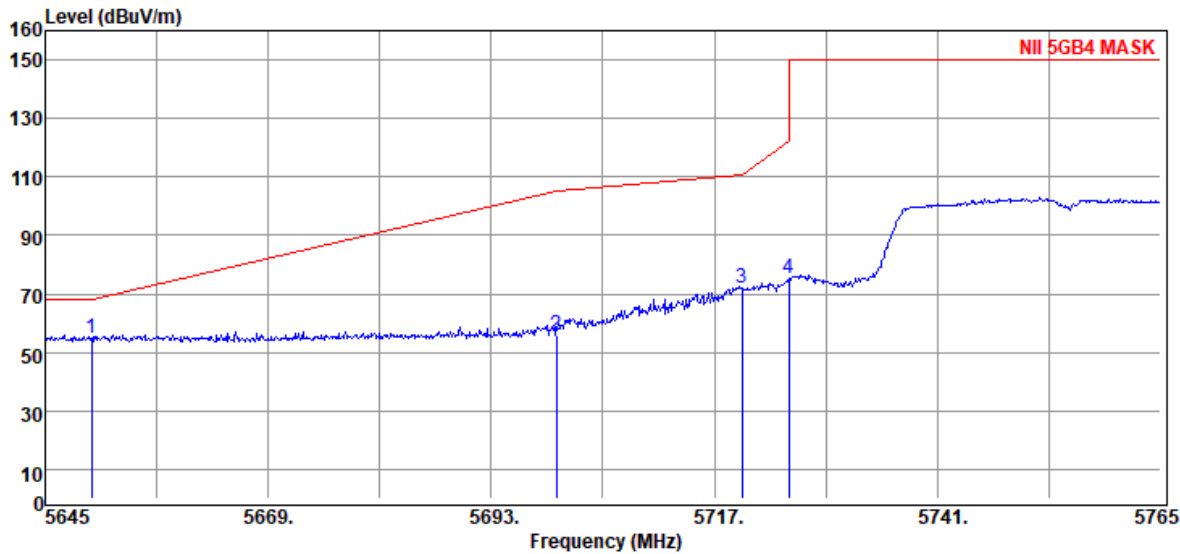
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	49.27	5.91	55.18	68.20	-13.02
5700.00	Peak	51.63	6.43	58.06	105.20	-47.14
5720.00	Peak	64.12	6.55	70.67	110.80	-40.13
5725.00	Peak	65.72	6.55	72.27	122.20	-49.93

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Operation Band	:802.11n40/Band 4	Test Date	:2019-03-15
Fundamental Frequency	:5755 MHz	Temp./Humi.	:24/60
Operation Mode	:BE CH LOW	Engineer	:Jerry
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	48.73	5.91	54.64	68.20	-13.56
5700.00	Peak	49.38	6.43	55.81	105.20	-49.39
5720.00	Peak	65.20	6.55	71.75	110.80	-39.05
5725.00	Peak	68.70	6.55	75.25	122.20	-46.95

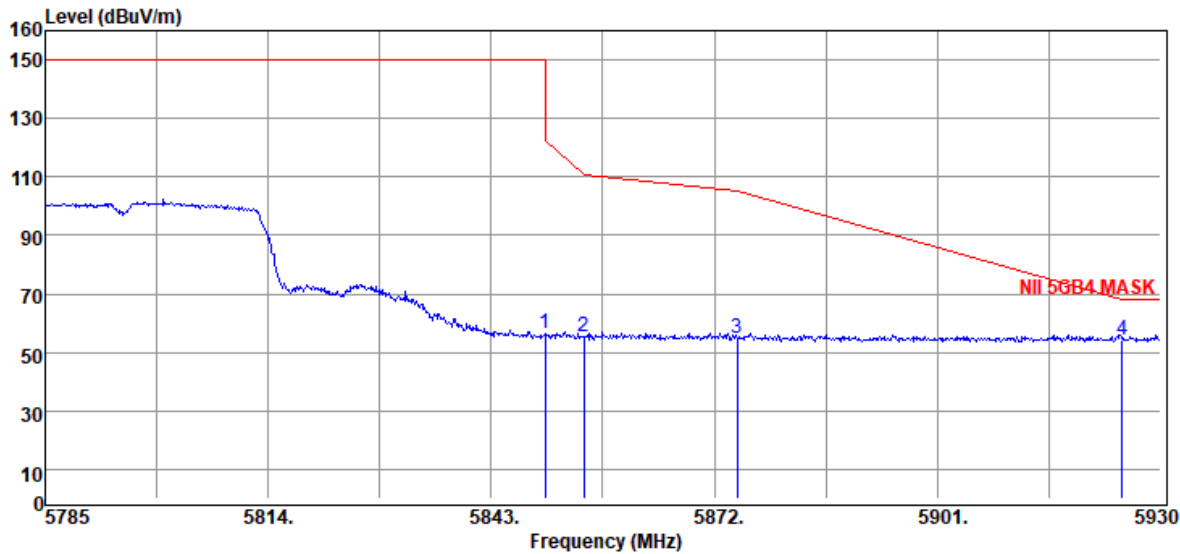
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Operation Band :802.11n40/Band 4
Fundamental Frequency :5795 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.00	Peak	49.81	6.41	56.22	122.20	-65.98
5855.00	Peak	49.00	6.43	55.43	110.80	-55.37
5875.00	Peak	48.37	6.49	54.86	105.20	-50.34
5925.00	Peak	47.85	6.44	54.29	68.20	-13.91

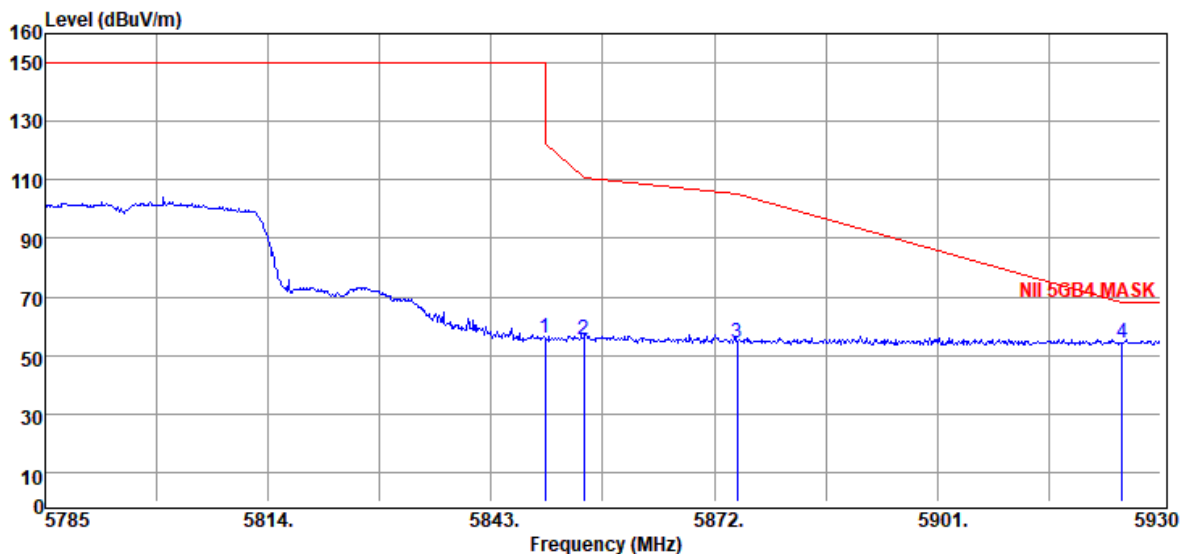
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Operation Band :802.11n40/Band 4
Fundamental Frequency :5795 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-03-15
Temp./Humi. :24/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	49.46	6.41	55.87	122.20	-66.33
5855.00	Peak	48.96	6.43	55.39	110.80	-55.41
5875.00	Peak	47.84	6.49	54.33	105.20	-50.87
5925.00	Peak	47.85	6.44	54.29	68.20	-13.91

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

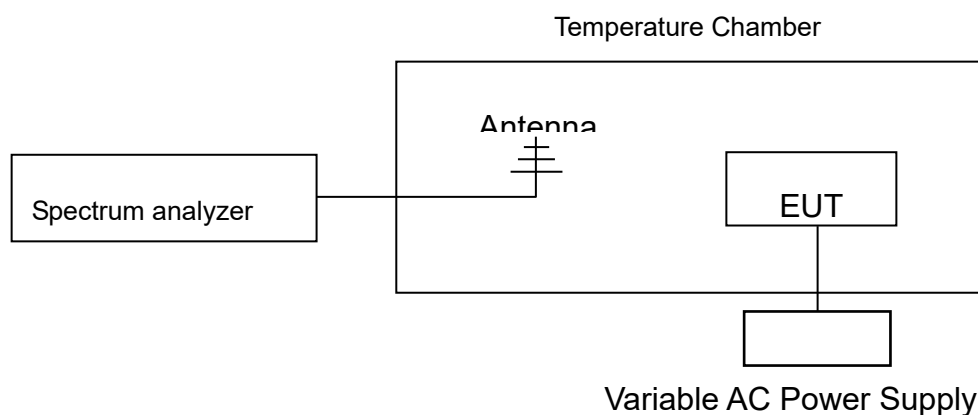
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Block	PASTERNAK	PE8210	RF29	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.01514	-0.00000290
		48	5240	5,240.01514	-0.00000289
		149	5745	5,745.01514	-0.00000263
		157	5785	5,785.01514	-0.00000262
		165	5825	5,825.01514	-0.00000260
	3.42	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.01514	-0.00000290
		48	5240	5,240.01514	-0.00000289
		149	5745	5,745.01514	-0.00000263
		157	5785	5,785.01514	-0.00000262
		165	5825	5,825.01514	-0.00000260
25	3.8	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.01514	-0.00000290
		48	5240	5,240.01514	-0.00000289
		149	5745	5,745.01514	-0.00000263
		157	5785	5,785.01514	-0.00000262
		165	5825	5,825.01514	-0.00000260

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55	4.37	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.01514	-0.00000290
		48	5240	5,240.01514	-0.00000289
		149	5745	5,745.01514	-0.00000263
		157	5785	5,785.01514	-0.00000262
		165	5825	5,825.01514	-0.00000260
	3.42	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.01514	-0.00000290
		48	5240	5,240.01514	-0.00000289
		149	5745	5,745.01514	-0.00000263
		157	5785	5,785.01514	-0.00000262
		165	5825	5,825.01514	-0.00000260

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Operation Mode	802.11 n_HT40	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	38	5190	5,190.00124	-0.00000024
		46	5230	5,230.01002	-0.00000192
		151	5755	5,755.00281	-0.00000049
		159	5795	5,795.00891	-0.00000154
	3.42	38	5190	5,190.00741	-0.00000143
		46	5230	5,230.01023	-0.00000196
		151	5755	5,755.00931	-0.00000162
		159	5795	5,795.00782	-0.00000135
25	3.8	38	5190	5,190.01173	-0.00000226
		46	5230	5,230.00123	-0.00000024
		151	5755	5,755.00742	-0.00000129
		159	5795	5,795.01003	-0.00000173
55	4.37	38	5190	5,190.01183	-0.00000228
		46	5230	5,230.00000	0.00000000
		151	5755	5,755.01431	-0.00000249
		159	5795	5,795.00937	-0.00000162
	3.42	38	5190	5,190.00788	-0.00000152
		46	5230	5,230.00833	-0.00000159
		151	5755	5,755.01032	-0.00000179
		159	5795	5,795.01029	-0.00000178

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2 Minutes:

Operation Mode	802.11 a	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	36	5180	5,180.00318	-0.00000061
		44	5220	5,220.00380	-0.00000073
		48	5240	5,240.00368	-0.00000070
		149	5745	5,745.06401	-0.00001114
		157	5785	5,785.00418	-0.00000072
		165	5825	5,825.05202	-0.00000893
	3.42	36	5180	5,180.00376	-0.00000073
		44	5220	5,220.00313	-0.00000060
		48	5240	5,240.00361	-0.00000069
		149	5745	5,745.06430	-0.00001119
		157	5785	5,785.00410	-0.00000071
		165	5825	5,825.05170	-0.00000888
25	3.8	36	5180	5,180.00297	-0.00000057
		44	5220	5,220.00375	-0.00000072
		48	5240	5,240.00312	-0.00000059
		149	5745	5,745.06420	-0.00001118
		157	5785	5,785.00393	-0.00000068
		165	5825	5,825.05165	-0.00000887

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55	4.37	36	5180	5,180.00339	-0.00000065
		44	5220	5,220.00319	-0.00000061
		48	5240	5,240.00310	-0.00000059
		149	5745	5,745.06384	-0.00001111
		157	5785	5,785.00415	-0.00000072
		165	5825	5,825.05147	-0.00000884
	3.42	36	5180	5,180.00304	-0.00000059
		44	5220	5,220.00379	-0.00000073
		48	5240	5,240.00386	-0.00000074
		149	5745	5,745.06386	-0.00001112
		157	5785	5,785.00411	-0.00000071
		165	5825	5,825.05207	-0.00000894

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Operation Mode	802.11 n_HT40	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	38	5190	5,190.04499	-0.00000867
		46	5230	5,230.00390	-0.00000075
		151	5755	5,755.00438	-0.00000076
		159	5795	5,795.00376	-0.00000065
	3.42	38	5190	5,190.04481	-0.00000863
		46	5230	5,230.00385	-0.00000074
		151	5755	5,755.00438	-0.00000076
		159	5795	5,795.00431	-0.00000074
25	3.8	38	5190	5,190.04454	-0.00000858
		46	5230	5,230.00374	-0.00000072
		151	5755	5,755.00373	-0.00000065
		159	5795	5,795.00446	-0.00000077
55	4.37	38	5190	5,190.04454	-0.00000858
		46	5230	5,230.00372	-0.00000071
		151	5755	5,755.00399	-0.00000069
		159	5795	5,795.00369	-0.00000064
	3.42	38	5190	5,190.04457	-0.00000859
		46	5230	5,230.00382	-0.00000073
		151	5755	5,755.00365	-0.00000063
		159	5795	5,795.00449	-0.00000077

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5 Minutes:

Operation Mode	802.11 a	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	36	5180	5,180.00318	-0.00000061
		44	5220	5,220.00344	-0.00000066
		48	5240	5,240.00313	-0.00000060
		149	5745	5,745.06408	-0.00001115
		157	5785	5,785.00441	-0.00000076
		165	5825	5,825.05189	-0.00000891
	3.42	36	5180	5,180.00312	-0.00000060
		44	5220	5,220.00345	-0.00000066
		48	5240	5,240.00360	-0.00000069
		149	5745	5,745.06454	-0.00001123
		157	5785	5,785.00376	-0.00000065
		165	5825	5,825.05197	-0.00000892
25	3.8	36	5180	5,180.00358	-0.00000069
		44	5220	5,220.00314	-0.00000060
		48	5240	5,240.00321	-0.00000061
		149	5745	5,745.06442	-0.00001121
		157	5785	5,785.00403	-0.00000070
		165	5825	5,825.05200	-0.00000893

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55	4.37	36	5180	5,180.00328	-0.00000063
		44	5220	5,220.00362	-0.00000069
		48	5240	5,240.00312	-0.00000060
		149	5745	5,745.06426	-0.00001119
		157	5785	5,785.00402	-0.00000069
		165	5825	5,825.05215	-0.00000895
	3.42	36	5180	5,180.00331	-0.00000064
		44	5220	5,220.00362	-0.00000069
		48	5240	5,240.00335	-0.00000064
		149	5745	5,745.06397	-0.00001114
		157	5785	5,785.00446	-0.00000077
		165	5825	5,825.05188	-0.00000891

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Operation Mode	802.11 n_HT40	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	38	5190	5,190.04439	-0.00000855
		46	5230	5,230.00384	-0.00000073
		151	5755	5,755.00404	-0.00000070
		159	5795	5,795.00380	-0.00000066
	3.42	38	5190	5,190.04461	-0.00000859
		46	5230	5,230.00358	-0.00000068
		151	5755	5,755.00440	-0.00000076
		159	5795	5,795.00408	-0.00000070
25	3.8	38	5190	5,190.04473	-0.00000862
		46	5230	5,230.00405	-0.00000077
		151	5755	5,755.00449	-0.00000078
		159	5795	5,795.00389	-0.00000067
55	4.37	38	5190	5,190.04497	-0.00000867
		46	5230	5,230.00342	-0.00000065
		151	5755	5,755.00407	-0.00000071
		159	5795	5,795.00371	-0.00000064
	3.42	38	5190	5,190.04486	-0.00000864
		46	5230	5,230.00347	-0.00000066
		151	5755	5,755.00393	-0.00000068
		159	5795	5,795.00454	-0.00000078

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10 Minutes:

Operation Mode	802.11 a	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	36	5180	5,180.00348	-0.00000067
		44	5220	5,220.00382	-0.00000073
		48	5240	5,240.00360	-0.00000069
		149	5745	5,745.06453	-0.00001123
		157	5785	5,785.00403	-0.00000070
		165	5825	5,825.05211	-0.00000895
	3.42	36	5180	5,180.00316	-0.00000061
		44	5220	5,220.00345	-0.00000066
		48	5240	5,240.00386	-0.00000074
		149	5745	5,745.06453	-0.00001123
		157	5785	5,785.00414	-0.00000072
		165	5825	5,825.05187	-0.00000891
25	3.8	36	5180	5,180.00374	-0.00000072
		44	5220	5,220.00338	-0.00000065
		48	5240	5,240.00358	-0.00000068
		149	5745	5,745.06427	-0.00001119
		157	5785	5,785.00378	-0.00000065
		165	5825	5,825.05206	-0.00000894

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55	4.37	36	5180	5,180.00348	-0.00000067
		44	5220	5,220.00305	-0.00000059
		48	5240	5,240.00364	-0.00000070
		149	5745	5,745.06385	-0.00001111
		157	5785	5,785.00387	-0.00000067
		165	5825	5,825.05199	-0.00000893
	3.42	36	5180	5,180.00364	-0.00000070
		44	5220	5,220.00297	-0.00000057
		48	5240	5,240.00343	-0.00000065
		149	5745	5,745.06473	-0.00001127
		157	5785	5,785.00378	-0.00000065
		165	5825	5,825.05180	-0.00000889

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Operation Mode	802.11 n_HT40	Test Date	2019.3.27
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	4.37	38	5190	5,190.04435	-0.00000854
		46	5230	5,230.00371	-0.00000071
		151	5755	5,755.00425	-0.00000074
		159	5795	5,795.00443	-0.00000076
	3.42	38	5190	5,190.04457	-0.00000859
		46	5230	5,230.00376	-0.00000072
		151	5755	5,755.00419	-0.00000073
		159	5795	5,795.00389	-0.00000067
25	3.8	38	5190	5,190.04434	-0.00000854
		46	5230	5,230.00389	-0.00000074
		151	5755	5,755.00397	-0.00000069
		159	5795	5,795.00408	-0.00000070
55	4.37	38	5190	5,190.04510	-0.00000869
		46	5230	5,230.00410	-0.00000078
		151	5755	5,755.00366	-0.00000064
		159	5795	5,795.00373	-0.00000064
	3.42	38	5190	5,190.04455	-0.00000858
		46	5230	5,230.00352	-0.00000067
		151	5755	5,755.00414	-0.00000072
		159	5795	5,795.00420	-0.00000072

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

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

~ End of Report ~

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