

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Mini

Brand Name: clover

Model No.: C302U

Model Difference: N/A

FCC ID: HFS-C302U

IC: 1787B-C302U

Report Number: E2/2018/80004

FCC Rule Part: §15.407, Cat:NII

IC Rule: RSS-247 issue 2 Feb. 2017

Issue Date: Sep. 10, 2018

Date of Test: Aug. 01, 2018~ Aug. 29, 2018

Date of EUT Received: Aug. 01, 2018

We hereby certify that:

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

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

Tested By: _____

Vito Pei

Vito Pei / Sr. Engineer

Approved By: _____

Jim Chang

Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/80004	Rev.00	Initial creation of document	All	Sep. 10, 2018	Stefanie Yu / Clerk

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Clover Mini	
Brand Name:	clover	
Model No.:	C302U	
Model Difference:	N/A	
Product SW/HW version:	N/A/ 1.0	
Radio SW/HW version:	N/A/ N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	1. Model No.: FSP040-RHBN3, Supplier: clover 2. Model No.: FSP040-RHBN2, Supplier: clover

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FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5150~5250	4	16.47	OFDM
	5250~5350	4	16.48	
	5470~5725	12	16.49	
	5725~5850	5	16.49	
11n_HT / ac_VHT 20M	5150~5250	4	HT: 13.82	OFDM
	5250~5350	4	HT: 20.34	
	5470~5725	12	HT: 20.44	
	5725~5850	5	HT: 20.49	
11n_HT / ac_VHT 40M	5150~5250	2	HT: 13.96	OFDM
	5250~5350	2	HT: 19.42	
	5470~5725	6	HT:19.40	
	5725~5850	2	HT: 19.48	
11ac VHT80M	5150~5250	1	14.34	OFDM
	5250~5350	1	14.17	
	5470~5725	3	18.45	
	5725~5850	1	18.40	
Antenna Designation:	<p>PIFA Antenna,</p> <p>1. P/N: GD9320-15-001-R, Supplier: SAA, Main Antenna: 5150~5250MHz Peak Gain: 5.43dBi 5250~5350MHz Peak Gain: 5.61dBi 5470~5725MHz Peak Gain: 5.86dBi 5725~5850MHz Peak Gain: 5.04dBi</p> <p>P/N: GD9321-15-001-R, Supplier: SAA, Aux Antenna: 5150~5250MHz Peak Gain: 5.88dBi 5250~5350MHz Peak Gain: 4.73dBi 5470~5725MHz Peak Gain: 4.16dBi 5725~5850MHz Peak Gain: 4.28dBi</p> <p>2. P/N: LA81FP017-1H, Supplier: Luxshare-ICT, Main Antenna: 5150~5250MHz Peak Gain: 3.5dBi 5250~5350MHz Peak Gain: 4.8dBi 5470~5725MHz Peak Gain: 4.9dBi 5725~5850MHz Peak Gain: 4.9dBi</p>			

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	<p>P/N: LA81FP018-1H, Supplier: Luxshare-ICT, Aux Antenna: 5150~5250MHz Peak Gain: 4.3dBi 5250~5350MHz Peak Gain: 4.6dBi 5470~5725MHz Peak Gain: 4.8dBi 5725~5850MHz Peak Gain: 5.1dBi</p>
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IC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. or EIRP	Rated Power(dBm) (Worst Case)	Modulation Technology
11a	5150~5250	4	EIRP	22.23	OFDM
	5250~5350	4	Avg.	16.48	
	5470~5725	12	Avg.	16.49	
	5725-5850	5	Avg.	16.49	
11n_HT / ac_VHT 20M	5150~5250	4	EIRP	HT: 22.49	OFDM
	5250~5350	4	Avg.	HT: 20.34	
	5470~5725	12	Avg.	HT: 20.44	
	5725-5850	5	Avg.	HT: 20.49	
11n_HT / ac_VHT 40M	5150~5250	2	EIRP	HT: 22.63	OFDM
	5250~5350	2	Avg.	HT: 19.42	
	5470~5725	6	Avg.	HT: 19.40	
	5725-5850	2	Avg.	HT: 19.48	
11ac VHT80M	5150~5250	1	EIRP	23.01	OFDM
	5250~5350	1	Avg.	18.45	
	5470~5725	2	Avg.	18.25	
	5725-5850	1	Avg.	18.40	
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only				
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 - 300.0Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 -300.0Mbps 802.11 ac_80MHz: 29.3 – 650Mbps				

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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

KDB 789033 D02 v01r04 General UNII Test Procedures New Rules

KDB 644545 D03 v01 Guidance for IEEE 802.11ac

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5 Apr. 2018

ANSI C63.10:2013

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

1.3 Test Facility

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

FCC Registration Numbers are: 735305 / TW0002

Canada Registration Number: 4620A-5

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is 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.

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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



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

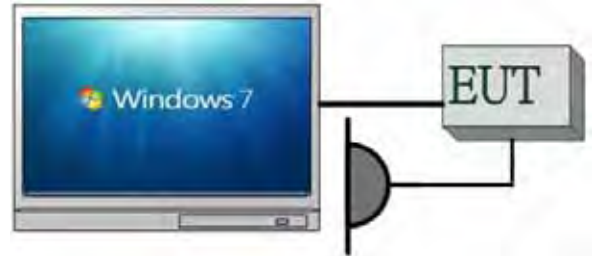


Fig. 2-2 Conducted Emission (AC Power Line) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L420	S0012467	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.8	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, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

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Operated band in 5470 MHz ~5725 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Freq (MHz)
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
Channel	Freq (MHz)
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

802.11ac VHT80 Mode	
Channel	Freq (MHz)
106	5530
122	5610
138	5690

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Freq (MHz)
149	5745
153	5765
157	5785
161	5805

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Freq (MHz)
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Freq (MHz)
155	5775

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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.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission.
5. The given UE is pre-scanned among SISO Main, SISO Aux and MIMO modes, and SISO Main mode yields the highest reading that generates the highest emission. Therefore, 802.11ac+SISO Main as the mode of radiated test configuration is chosen to carry out the relevantly mandatory test items.

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	36,44,48	OFDM	6	Aux
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	Aux
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	Aux
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Aux
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	Aux
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	Aux
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	Aux
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Aux
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E1 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	Aux
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	Aux
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	Aux
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Aux
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Maximum Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

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

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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6 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.
LISN	TESEQ	NNB 51	36076	2018/02/14	2019/2/13
EMI Test Receiver	R&S	ESCI	101300	2017/11/02	2018/11/1

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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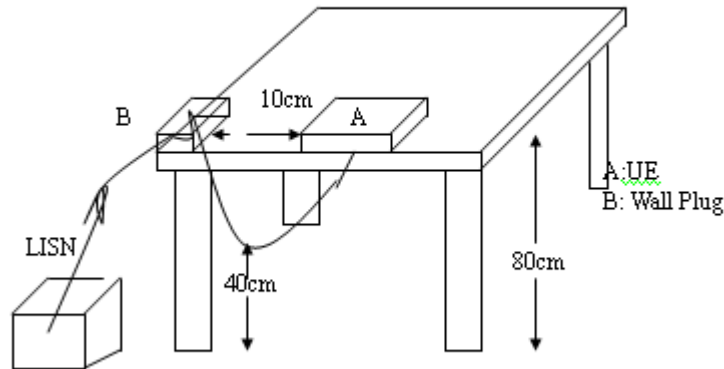
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6.4 Test SET-UP



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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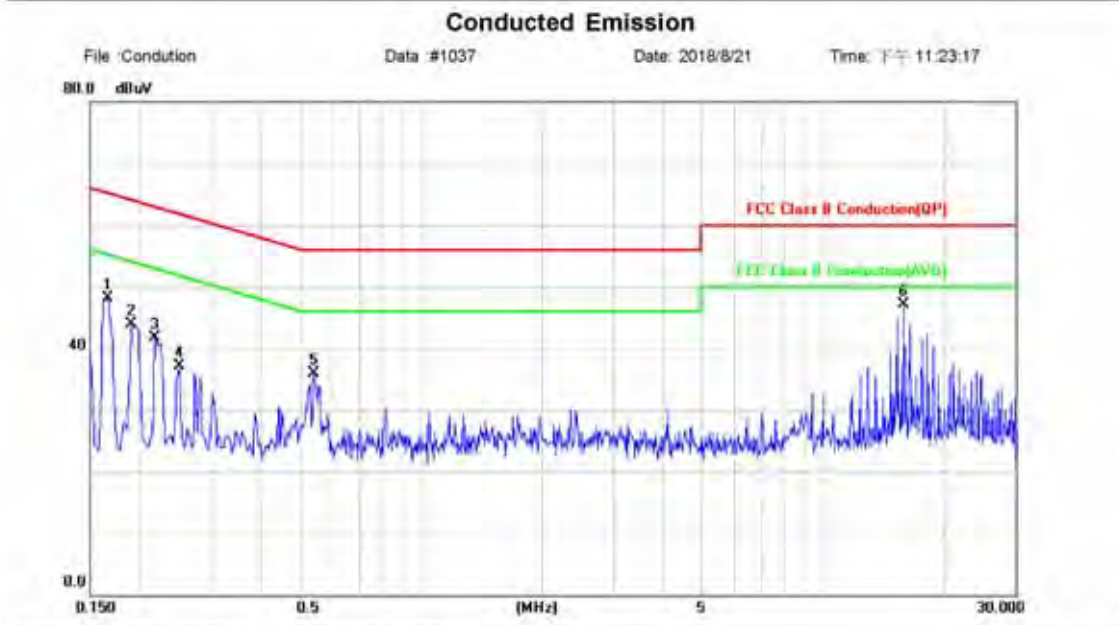
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test By:	Pony
-----------------	----------------	----------	------

Site: Conduction Room	Phase: L1	Temperature: 23℃
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 89%
Mode:		
Note:		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	28.49	19.68	48.17	65.16	-16.99	peak	
2		0.1900	24.25	19.72	43.97	64.04	-20.07	peak	
3		0.2180	21.86	19.77	41.63	62.89	-21.26	peak	
4		0.2500	17.30	19.82	37.12	61.76	-24.64	peak	
5		0.5420	15.69	20.20	35.89	56.00	-20.11	peak	
6	*	15.8580	27.09	19.99	47.08	60.00	-12.92	peak	

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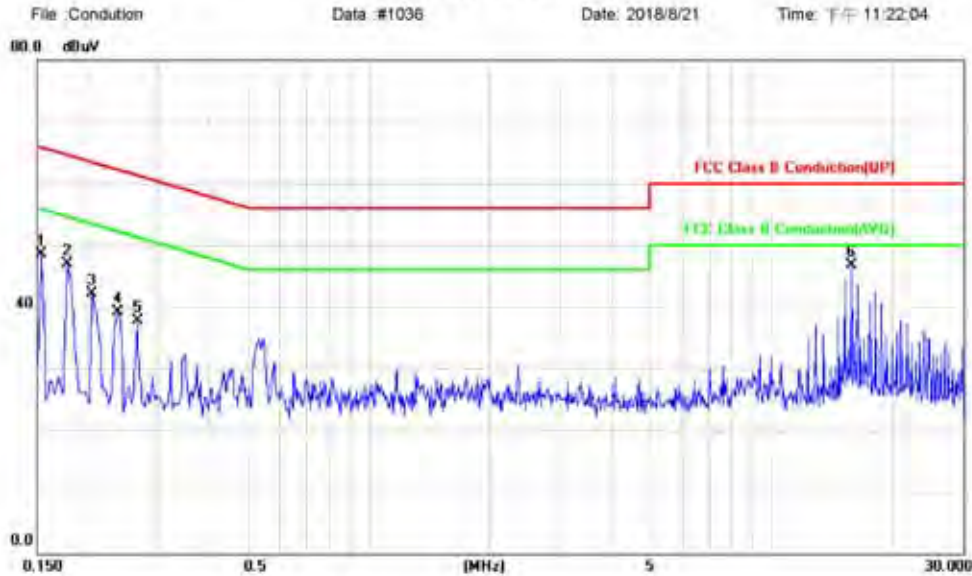
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Site : Conduction Room Phase: N Temperature: 23 ℃
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 69 %
 Mode:
 Note:

Conducted Emission



No.	Mk	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	28.93	19.65	48.58	65.78	-17.20	peak	
2		0.1780	27.23	19.69	46.92	64.58	-17.66	peak	
3		0.2060	22.38	19.73	42.11	63.37	-21.26	peak	
4		0.2380	19.23	19.78	39.01	62.17	-23.16	peak	
5		0.2660	17.95	19.83	37.78	61.24	-23.46	peak	
6 *		15.8540	26.77	20.01	46.78	60.00	-13.22	peak	

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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*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	95.70	0.19	0.48	1.00
802.11n_20	92.30	0.35	1.02	2.00
802.11ac_20	95.40	0.20	0.52	1.00
802.11n_40	85.90	0.66	2.02	3.00
802.11ac_40	91.00	0.41	1.05	2.00
802.11ac_80	94.80	0.23	2.16	3.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.957) = 0.19$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.923) = 0.35$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.954) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.859) = 0.66$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.91) = 0.41$$

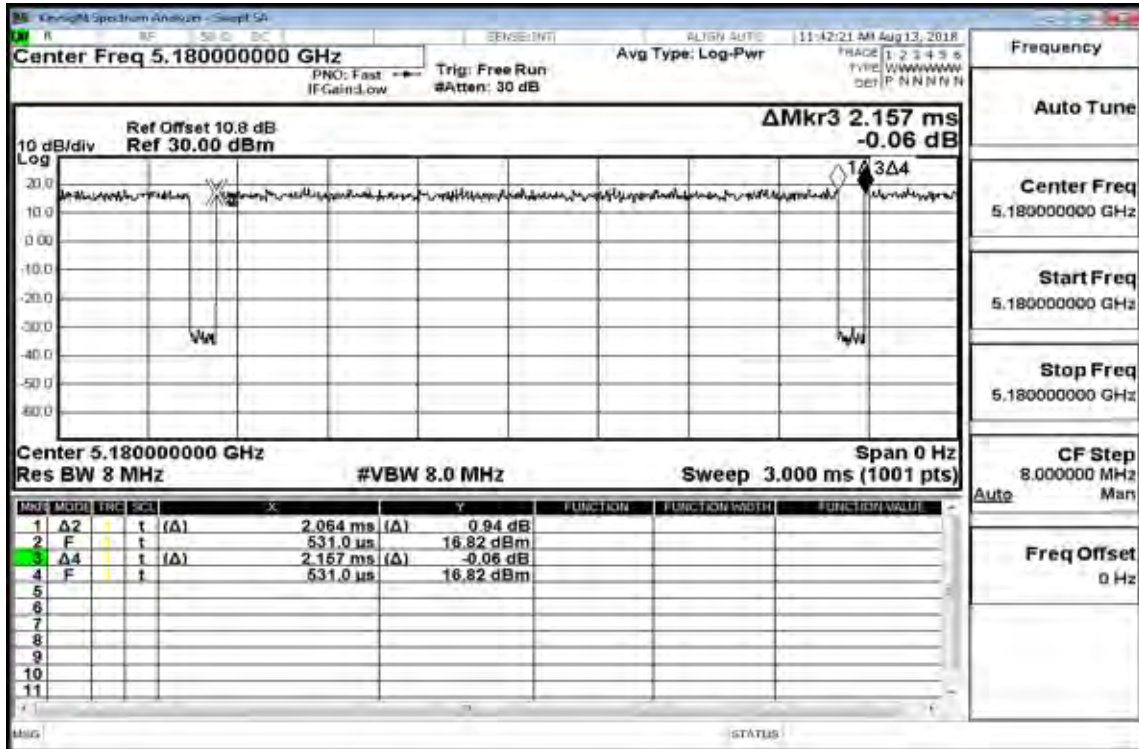
$$\text{Duty Cycle Factor: } 10 * \log(1/0.948) = 0.23$$

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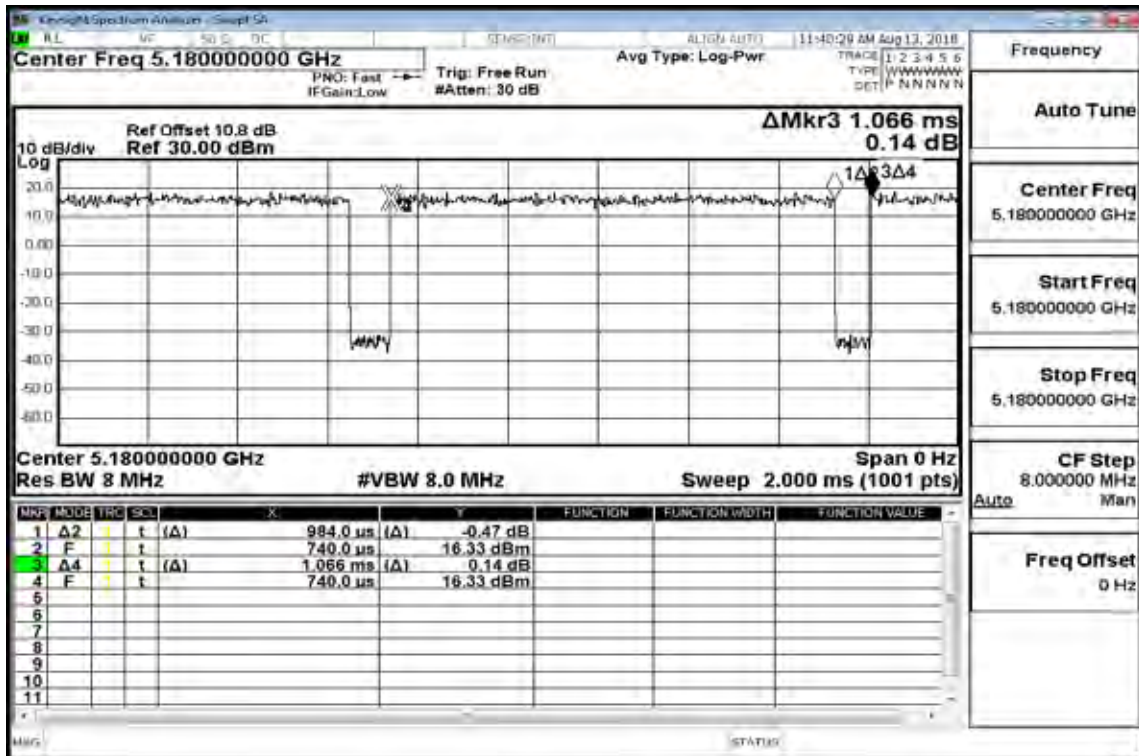
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20

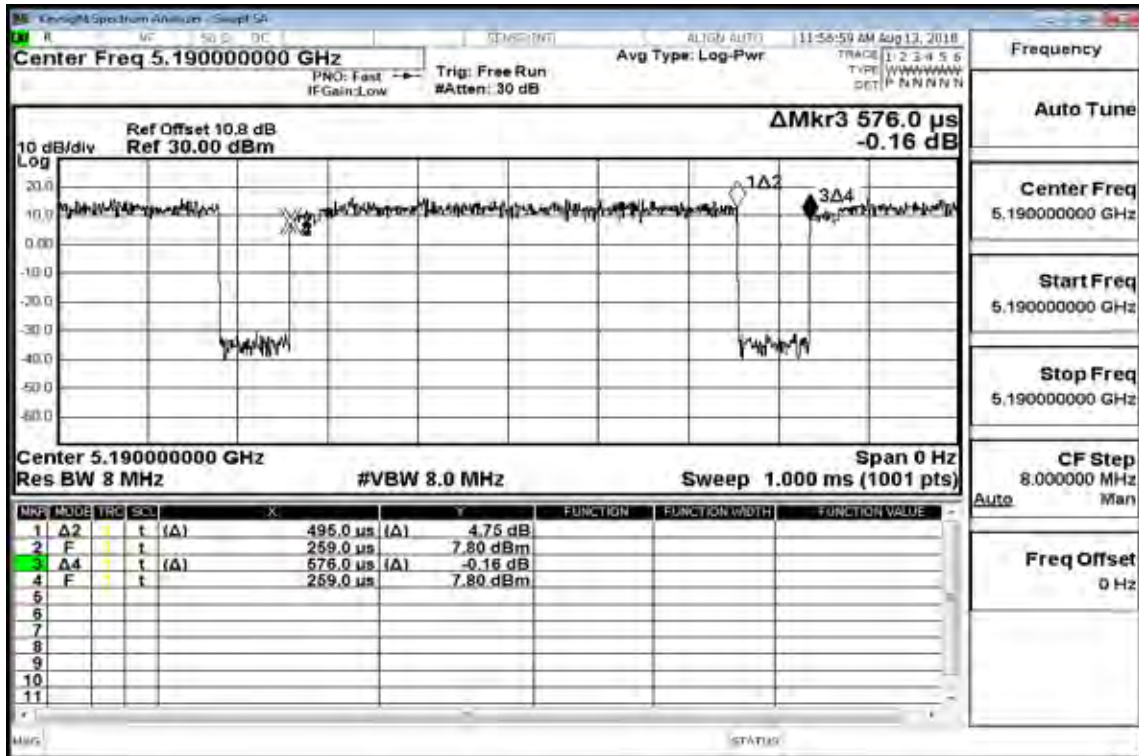


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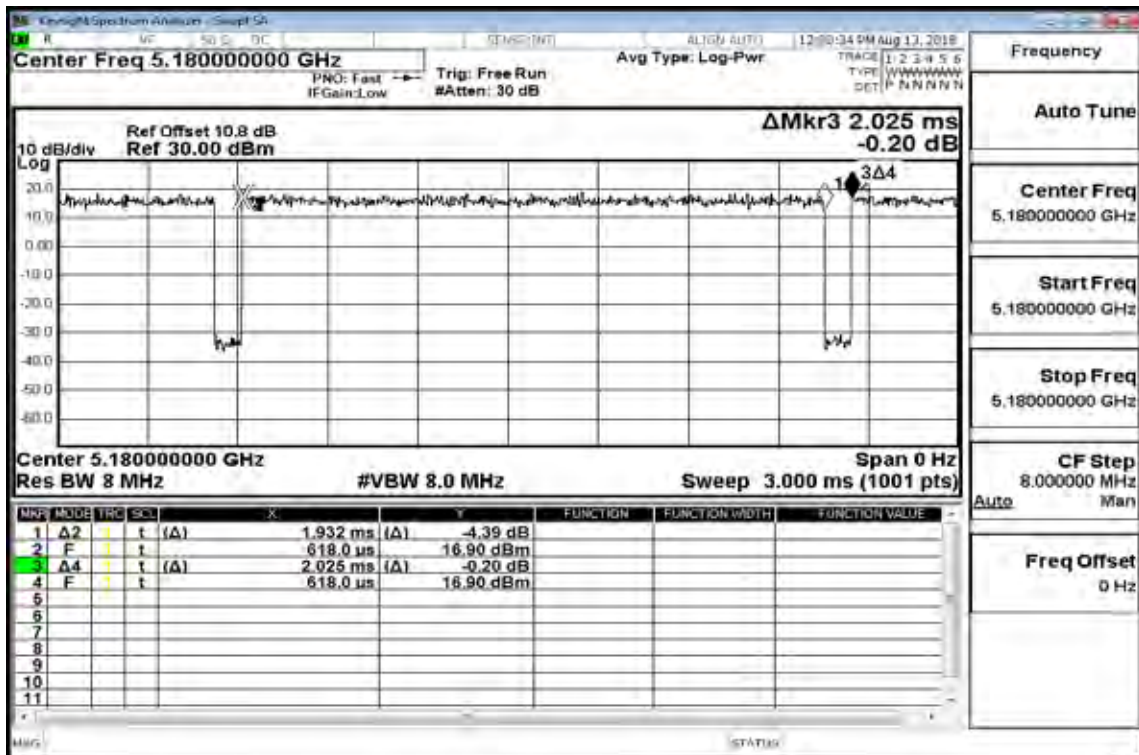
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802.11n HT 40



802.11ac VHT20



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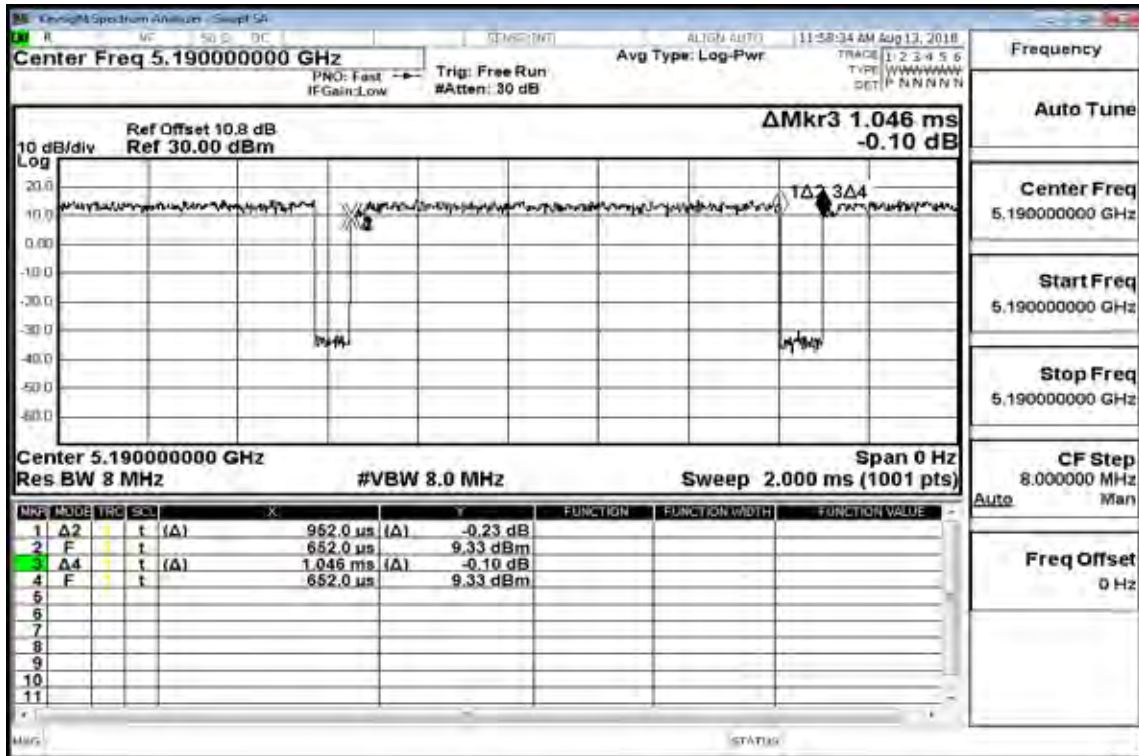
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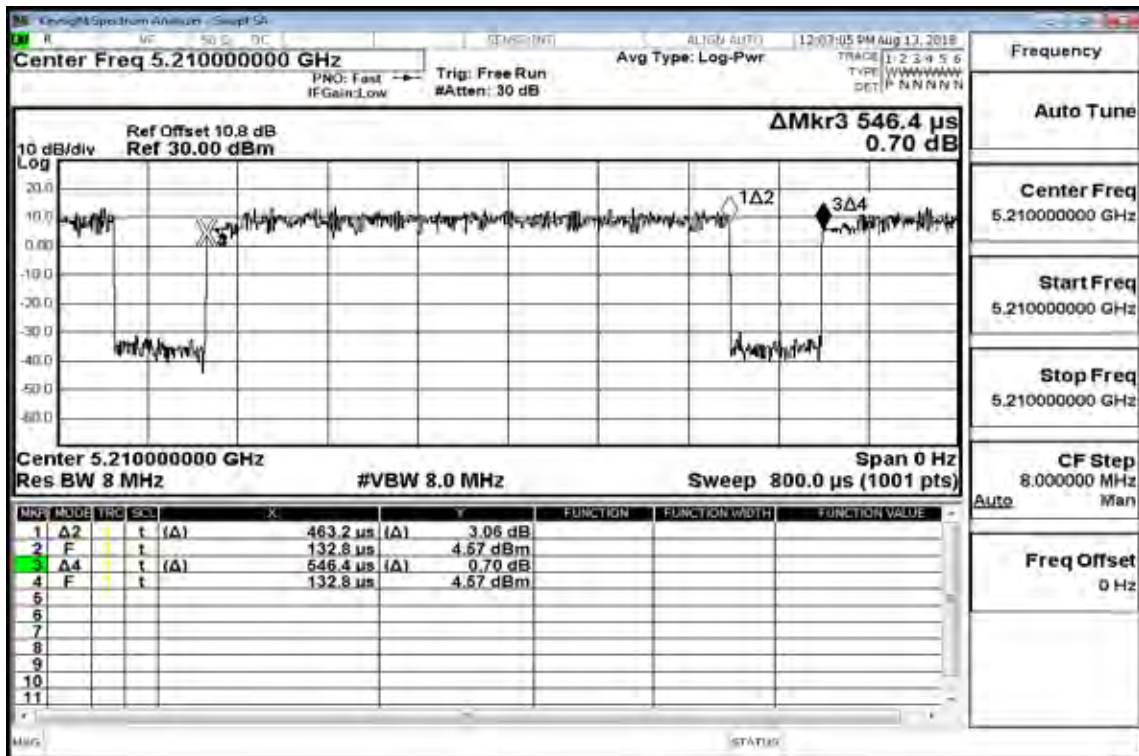
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802.11ac VHT 40



802.11 ac VHT 80



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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. Repeat above procedures until all test default channel measured were complete.

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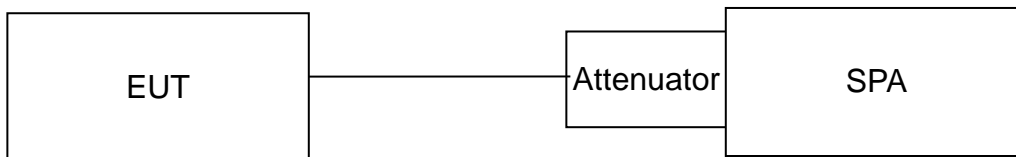
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/6/19
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

8.4 Test Set-up



8.5 Measurement Result

26dB and 6dB Bandwidth

802.11a_Ch0

802.11a_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.97	13.612	5180	23.42	13.696
5220	22.30	13.483	5220	23.84	13.773
5240	21.90	13.404	5240	23.57	13.724
5260	22.78	13.576	5260	23.24	13.662
5300	22.03	13.430	5300	23.43	13.698
5320	21.47	13.318	5320	23.19	13.653
5500	24.09	13.818	5500	21.95	13.414
5580	23.23	13.660	5580	24.13	13.826
5700	23.82	13.769	5700	24.24	13.845

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802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.32	11.853	5745	15.12	11.796
5785	16.30	12.122	5785	15.45	11.889
5825	16.31	12.125	5825	15.69	11.956

802.11a_Ch1

802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.87	13.779	5180	23.70	13.747
5220	24.78	13.941	5220	23.96	13.795
5240	24.34	13.863	5240	23.96	13.795
5260	23.99	13.800	5260	25.81	14.118
5300	24.22	13.842	5300	25.10	13.997
5320	21.81	13.387	5320	22.98	13.614
5500	25.22	14.017	5500	24.60	13.909
5580	28.43	14.538	5580	25.85	14.125
5700	27.41	14.379	5700	26.56	14.242
5720(U-NII 2C)	19.42	12.883	5720(U-NII 2C)	20.55	13.129
5720 (U-NII 3)	6.03	7.801	5720 (U-NII 3)	6.38	8.047

802.11n_HT20_Ch1

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.91	11.433	5745	15.07	11.781
5785	15.50	11.903	5785	16.69	12.225
5825	15.35	11.861	5825	17.29	12.378

802.11n_HT20_Ch1

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802.11n_HT40_Ch0

802.11n_HT40_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.80	16.107	5190	41.07	16.135
5230	41.01	16.129	5230	41.03	16.131
5270	40.48	16.072	5270	40.71	16.097
5310	40.35	16.058	5310	40.76	16.102
5510	40.98	16.126	5510	40.98	16.126
5550	41.13	16.142	5550	41.04	16.132
5670	40.98	16.126	5670	41.01	16.129
5710 (U-NII 2C)	35.98	15.561	5710 (U-NII 2C)	35.95	15.557
5710 (U-NII 3)	4.95	6.942	5710 (U-NII 3)	4.94	6.938

802.11n_HT40_Ch0

802.11n_HT40_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.20	15.465	5755	35.18	15.463
5795	35.16	15.460	5795	35.15	15.459

802.11ac_VHT80_Ch0

802.11ac_VHT80_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.80	19.180	5210	82.43	19.161
5290	82.67	19.173	5290	82.70	19.175
5530	82.71	19.176	5530	83.29	19.206
5610	83.95	19.240	5610	83.55	19.219
5690 (U-NII 2C)	85.52	19.321	5690 (U-NII 2C)	79.19	18.987
5690 (U-NII 3)	5.53	7.429	5690 (U-NII 3)	5.12	7.095

802.11ac_VHT80_Ch0

802.11ac_VHT80_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.18	18.761	5775	75.17	18.760

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99% Bandwidth
802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.693	12.225	5180	16.688	12.224
5220	16.678	12.221	5220	16.669	12.219
5240	16.713	12.231	5240	16.710	12.230
5260	16.699	12.227	5260	16.642	12.212
5300	16.696	12.226	5300	16.656	12.216
5320	16.655	12.215	5320	16.640	12.212
5500	16.671	12.220	5500	16.665	12.218
5580	16.681	12.222	5580	16.673	12.220
5700	16.760	12.243	5700	16.730	12.235

802.11a_Ch1
802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.77	12.246	5745	16.75	12.241
5785	16.73	12.235	5785	16.72	12.233
5825	16.72	12.231	5825	16.70	12.226

802.11a_Ch1
802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.801	12.504	5180	17.859	12.519
5220	17.830	12.512	5220	17.876	12.523
5240	17.888	12.526	5240	17.819	12.509
5260	17.967	12.545	5260	17.924	12.534
5300	17.833	12.512	5300	17.864	12.520
5320	17.803	12.505	5320	17.829	12.511
5500	17.914	12.532	5500	17.948	12.540
5580	17.947	12.540	5580	17.969	12.545
5700	17.979	12.548	5700	18.015	12.556
5720(U-NII 2C)	13.753	11.384	5720(U-NII 2C)	13.716	11.372
5720 (U-NII 3)	4.268	6.302	5720 (U-NII 3)	4.257	6.291

802.11n_HT20_Ch1

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802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	18.04	12.563	5745	17.99	12.551
5785	18.01	12.555	5785	17.99	12.550
5825	17.81	12.505	5825	17.85	12.515

802.11n_HT20_Ch1

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.105	15.576	5190	36.099	15.575
5230	36.141	15.580	5230	36.105	15.576
5270	36.143	15.580	5270	36.090	15.574
5310	36.149	15.581	5310	36.113	15.577
5510	36.070	15.571	5510	36.122	15.578
5550	36.097	15.575	5550	36.107	15.576
5670	36.107	15.576	5670	36.085	15.573
5710(U-NII 2C)	31.770	15.020	5710(U-NII 2C)	31.771	15.020
5710 (U-NII 3)	4.366	6.401	5710 (U-NII 3)	4.366	6.401

802.11n_HT40_Ch1

802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.11	15.576	5755	36.08	15.573
5795	36.13	15.579	5795	36.09	15.573

802.11n_HT40_Ch1

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.476	18.778	5210	75.488	18.779
5290	75.507	18.780	5290	75.586	18.784
5530	75.603	18.785	5530	75.463	18.777
5610	75.619	18.786	5610	75.649	18.788
5690(U-NII 2C)	71.039	18.515	5690(U-NII 2C)	70.967	18.511
5690 (U-NII 3)	4.595	6.623	5690 (U-NII 3)	4.591	6.619

802.11ac_VHT80_Ch1

802.11ac_VHT80_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.57	18.784	5775	75.56	18.783

802.11ac_VHT80_Ch1

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802.11a_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.34	< 5250
5745	5736.78	> 5725

802.11a_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.34	< 5250
5745	5736.72	> 5725

802.11n_HT20_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5249.00	< 5250
5745	5736.15	> 5725

802.11n_HT20_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.97	< 5250
5745	5736.15	> 5725

802.11n_HT40_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.15	< 5250
5755	5736.95	> 5725

802.11n_HT40_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.15	< 5250
5755	5736.95	> 5725

802.11ac_VHT80_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5248.10	< 5250
5775	5737.30	> 5725

802.11n_HT80_Ch1

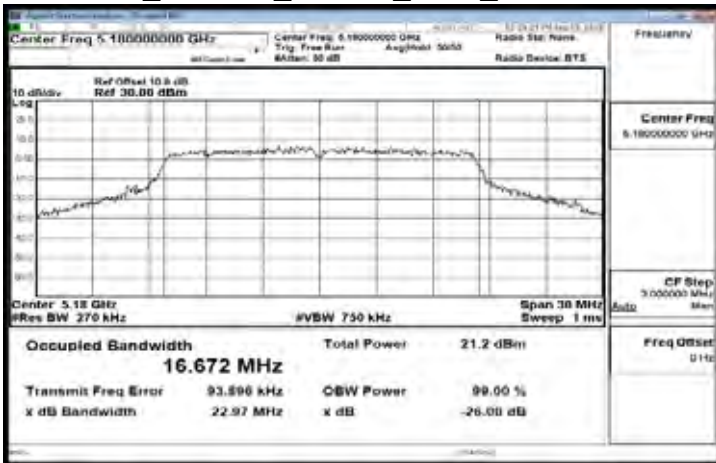
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5248.00	< 5250
5775	5737.30	> 5725

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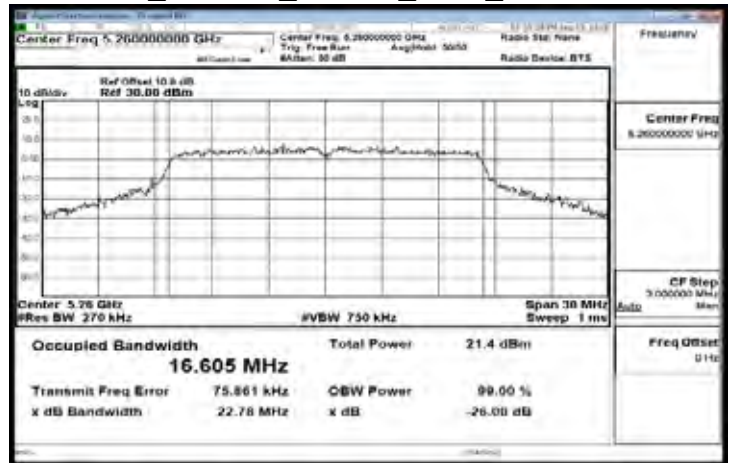
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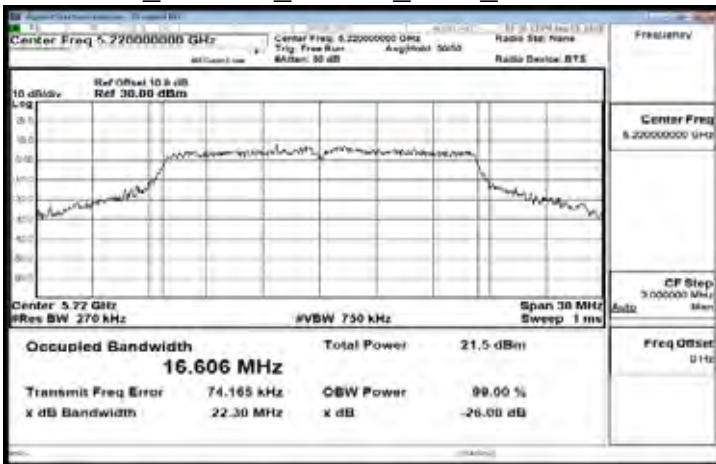
FCC_802.11a_20MHz_Main_5180MHz



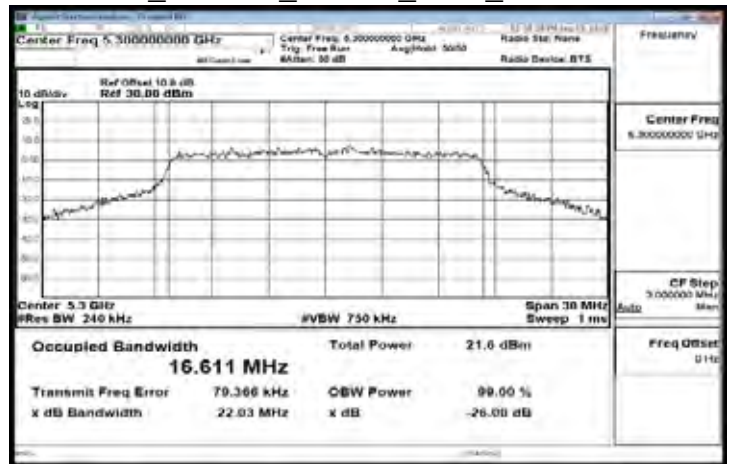
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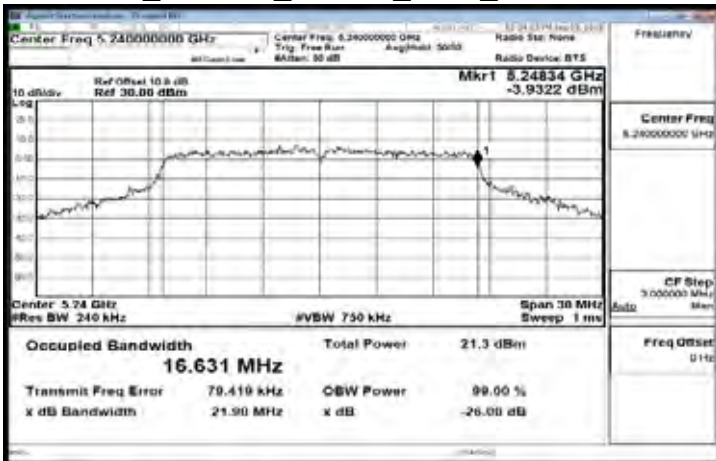
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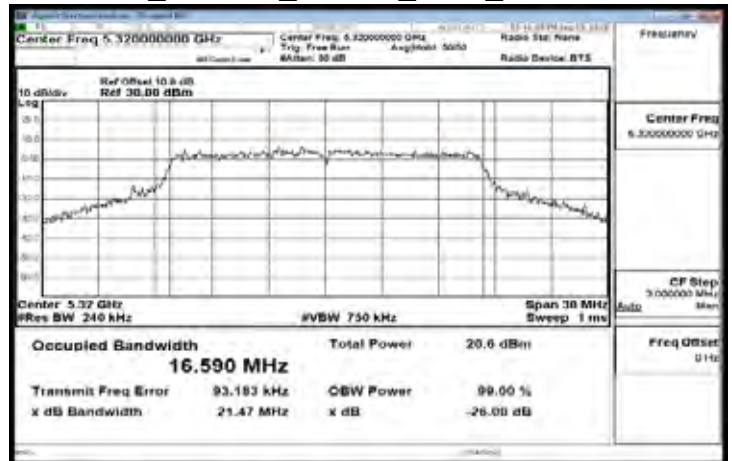
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FCC_802.11a_20MHz_Main_5240MHz



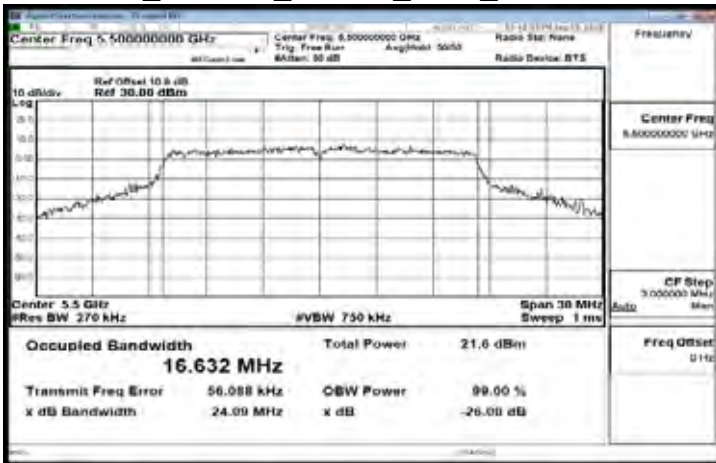
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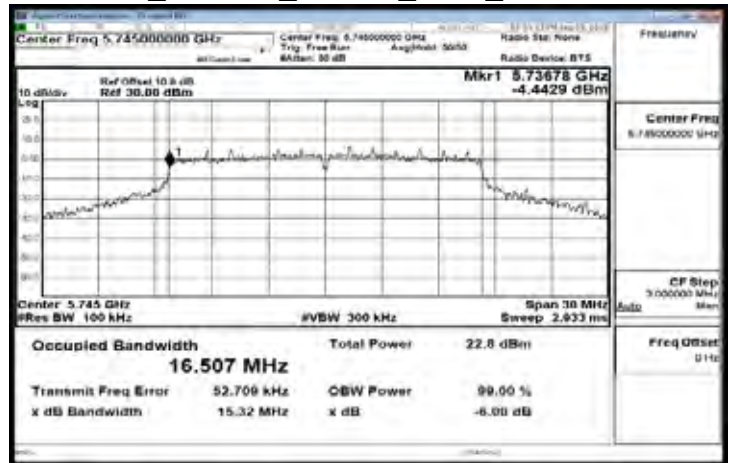
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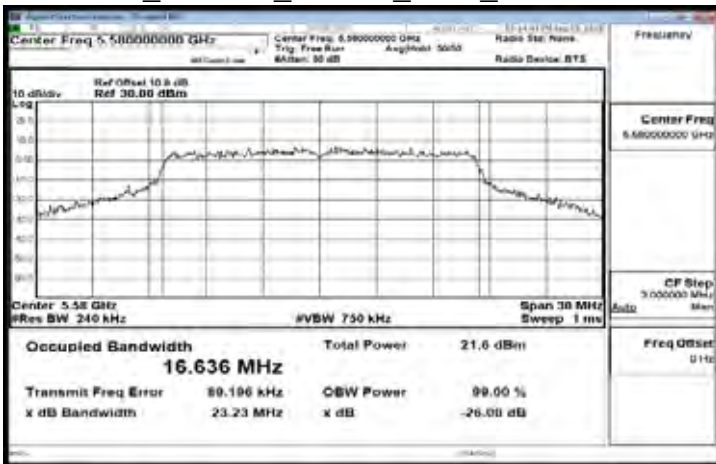
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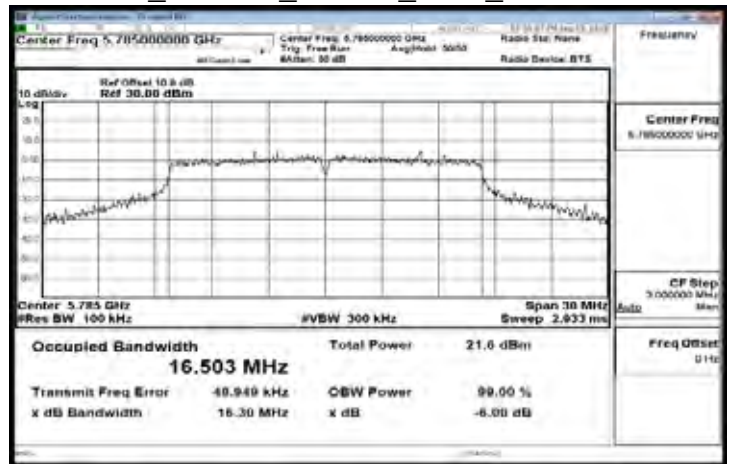
FCC_802.11a_20MHz_Main_5745MHz



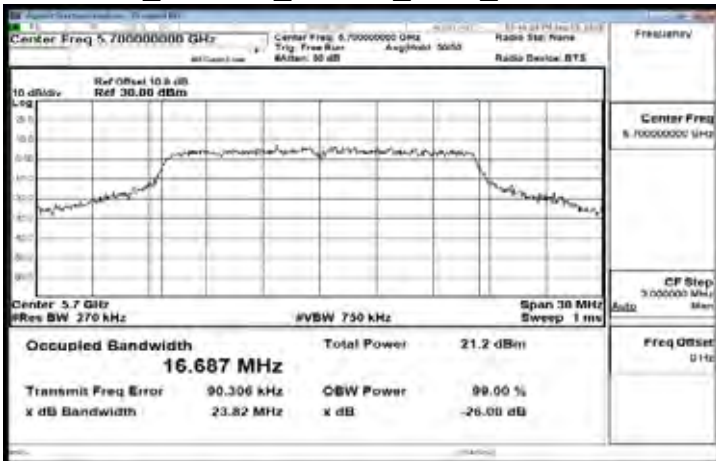
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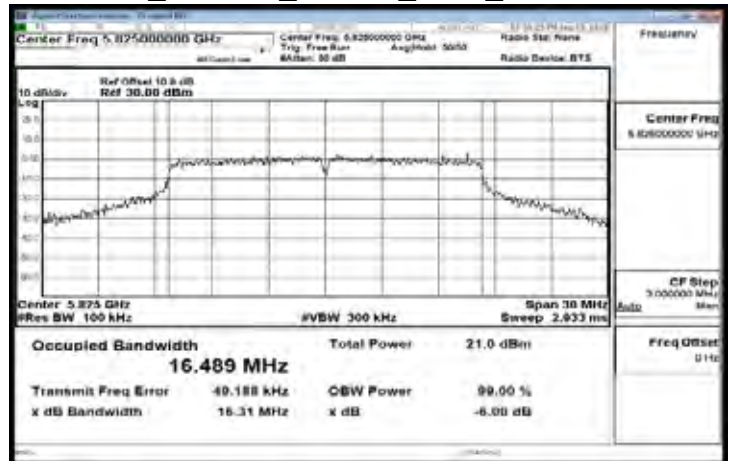
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FCC_802.11a_20MHz_Main_5700MHz



FCC_802.11a_20MHz_Main_5825MHz

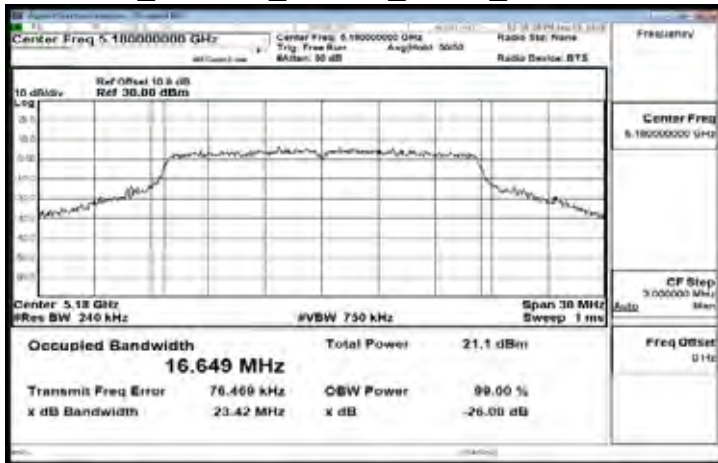


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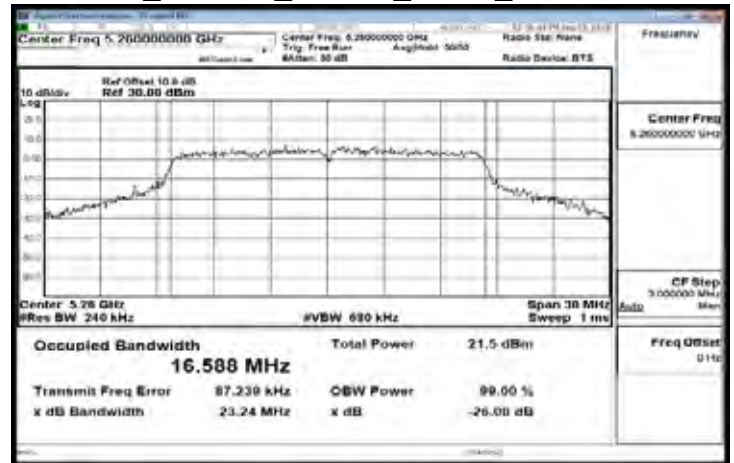
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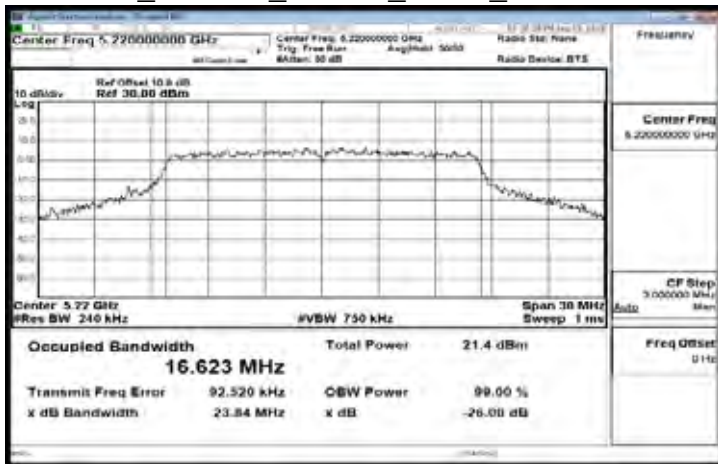
FCC_802.11a_20MHz_AUX1_5180MHz



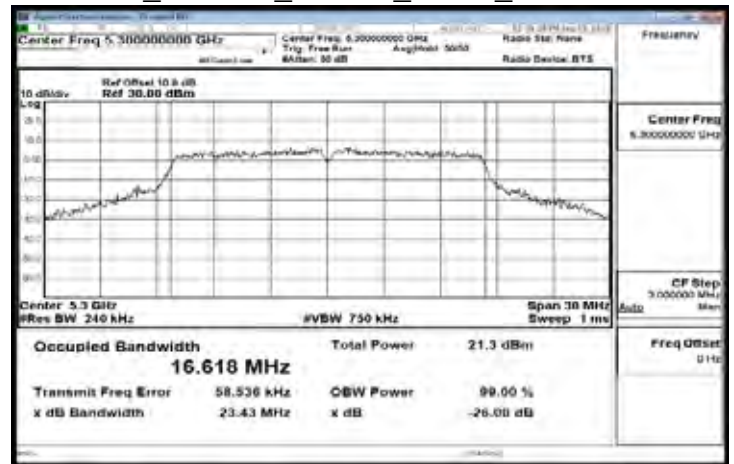
FCC_802.11a_20MHz_AUX1_5260MHz



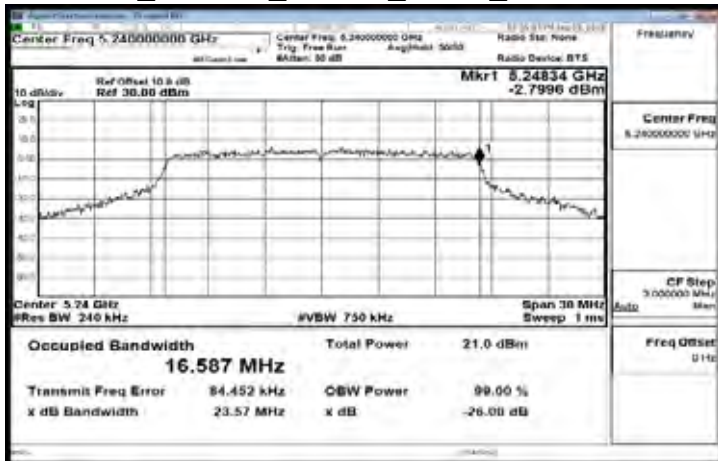
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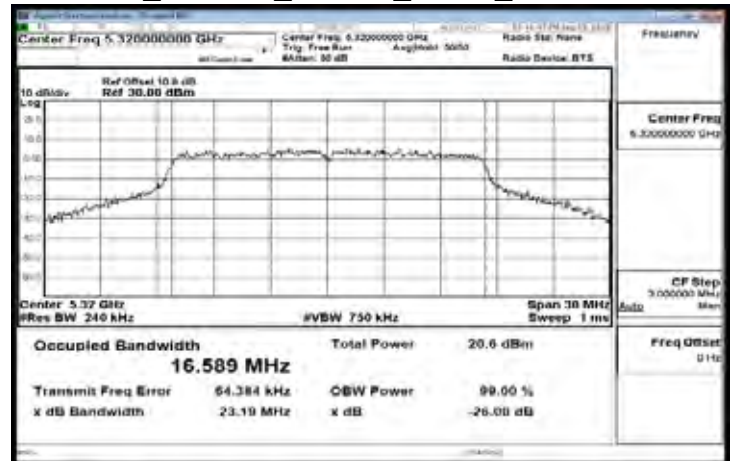
FCC_802.11a_20MHz_AUX1_5300MHz



FCC_802.11a_20MHz_AUX1_5240MHz



FCC_802.11a_20MHz_AUX1_5320MHz

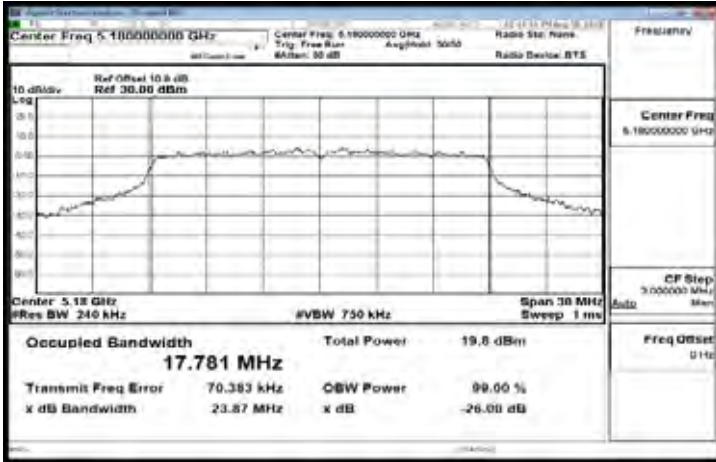


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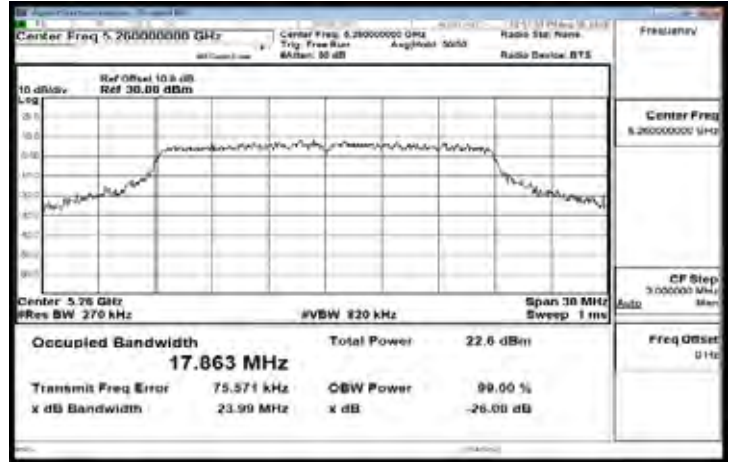
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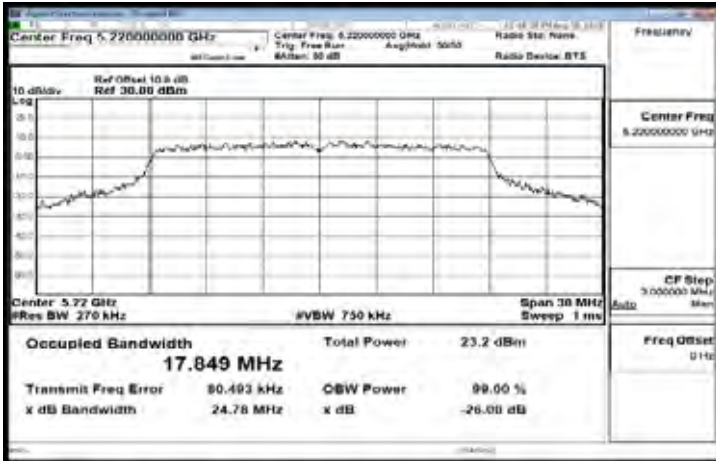
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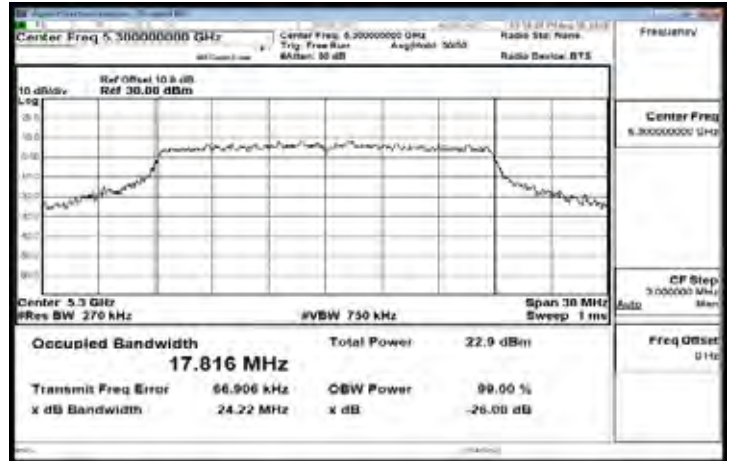
FCC_802.11n_20MHz_Main_5260MHz



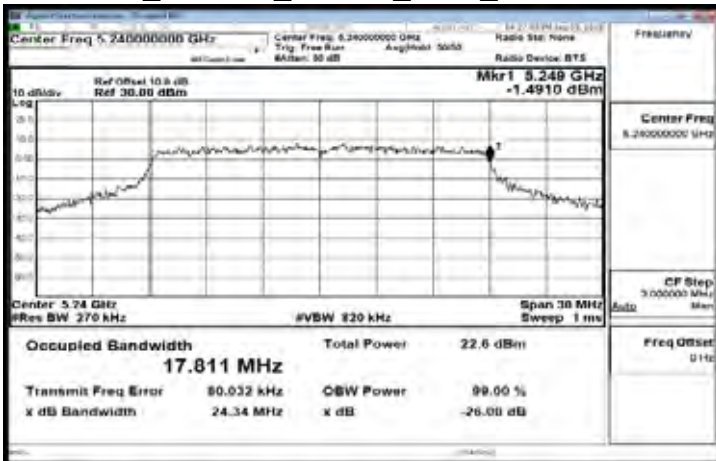
FCC_802.11n_20MHz_Main_5220MHz



FCC_802.11n_20MHz_Main_5300MHz



FCC_802.11n_20MHz_Main_5240MHz



FCC_802.11n_20MHz_Main_5320MHz



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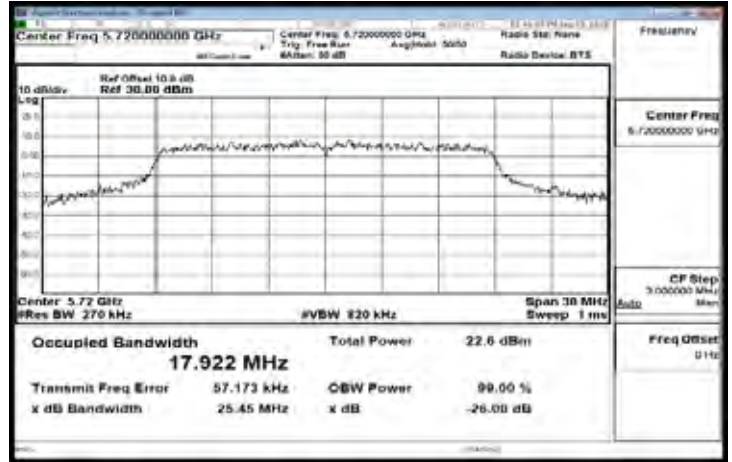
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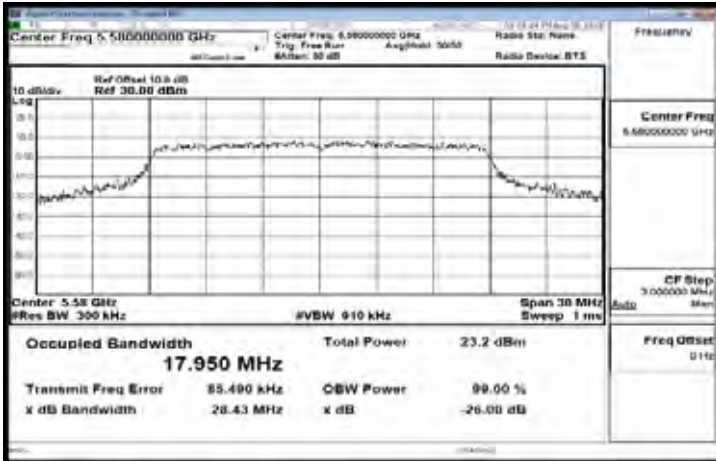
FCC_802.11n_20MHz_Main_5500MHz



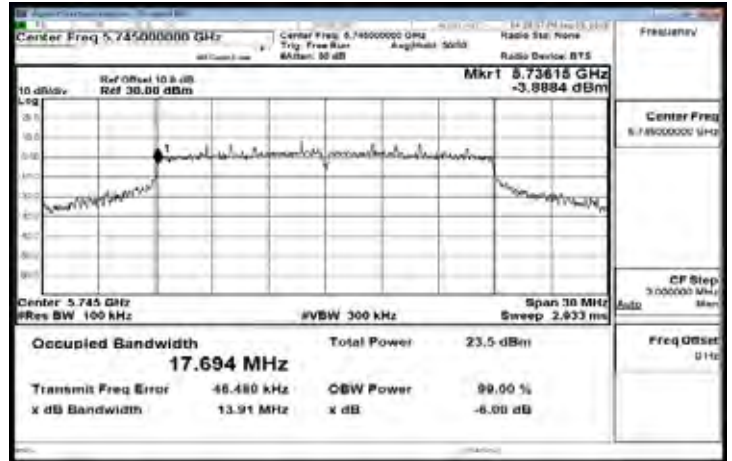
FCC_802.11n_20MHz_Main_5720MHz



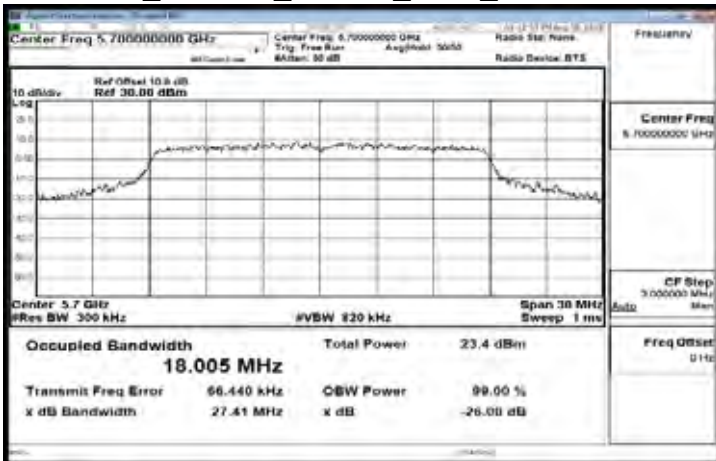
FCC_802.11n_20MHz_Main_5580MHz



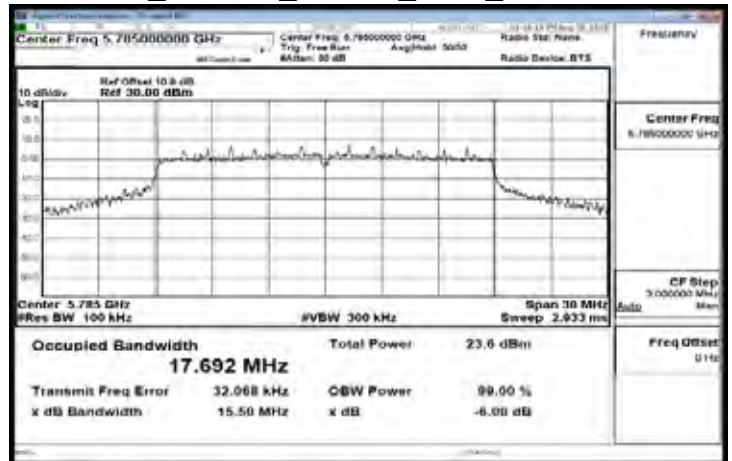
FCC_802.11n_20MHz_Main_5745MHz



FCC_802.11n_20MHz_Main_5700MHz



FCC_802.11n_20MHz_Main_5785MHz

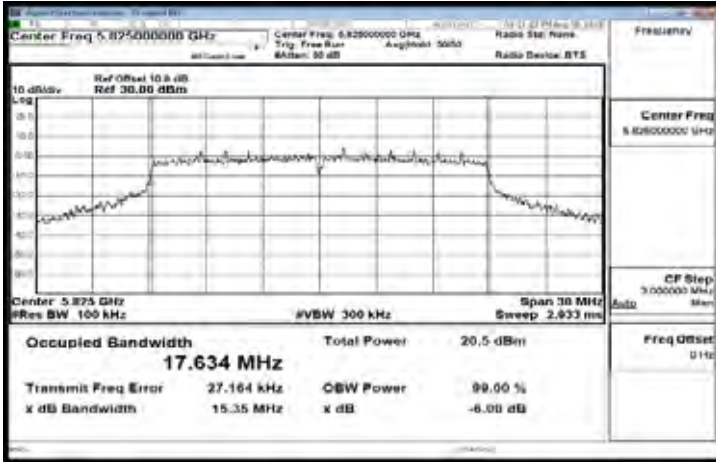


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FCC_802.11n_20MHz_Main_5825MHz



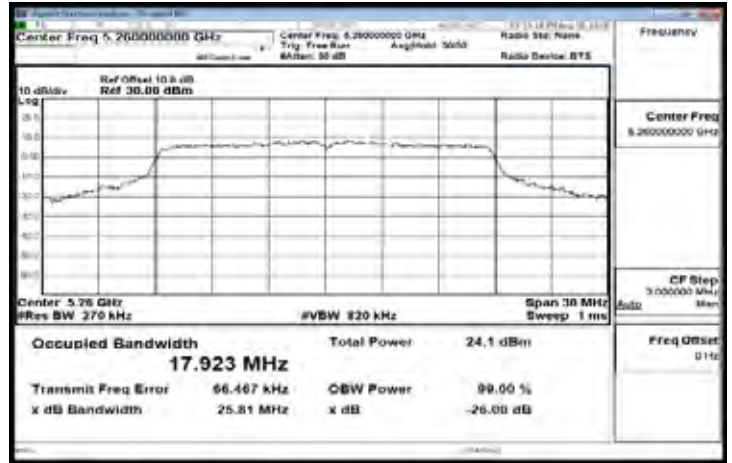
FCC_802.11n_20MHz_AUX1_5240MHz



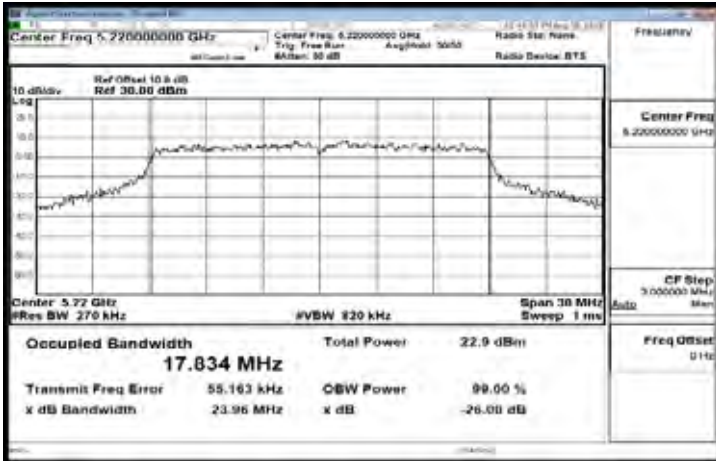
FCC_802.11n_20MHz_AUX1_5180MHz



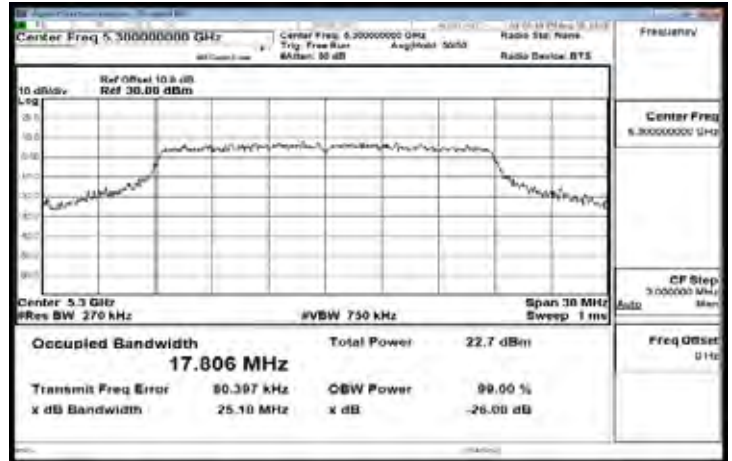
FCC_802.11n_20MHz_AUX1_5260MHz



FCC_802.11n_20MHz_AUX1_5220MHz



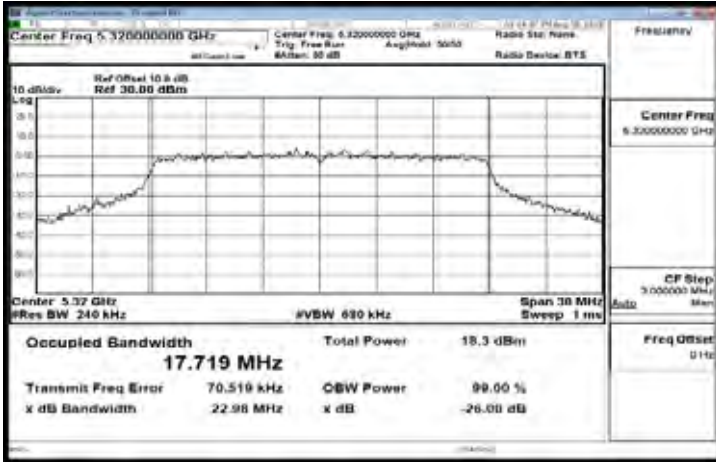
FCC_802.11n_20MHz_AUX1_5300MHz



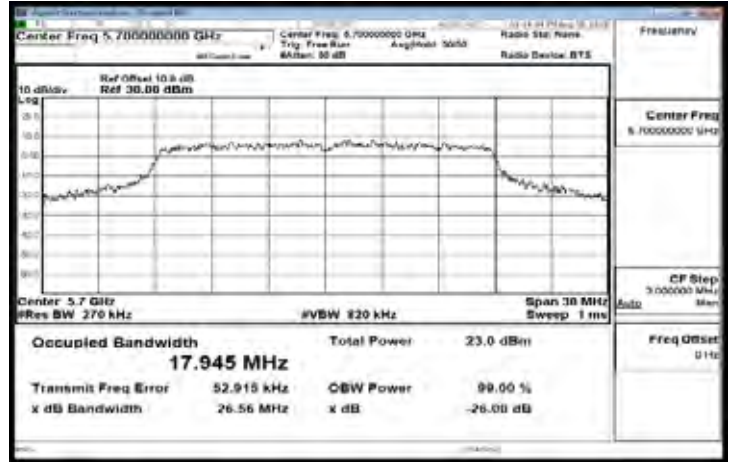
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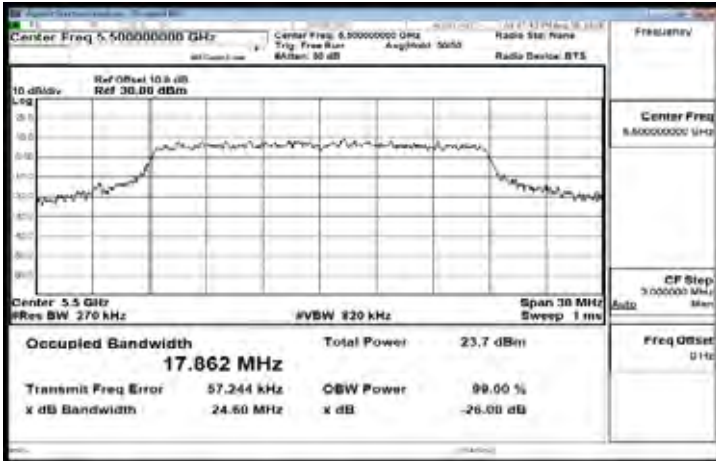
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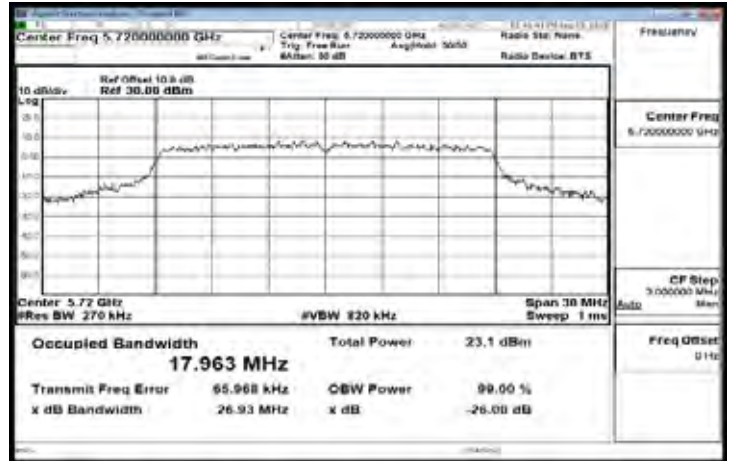
FCC_802.11n_20MHz_AUX1_5700MHz



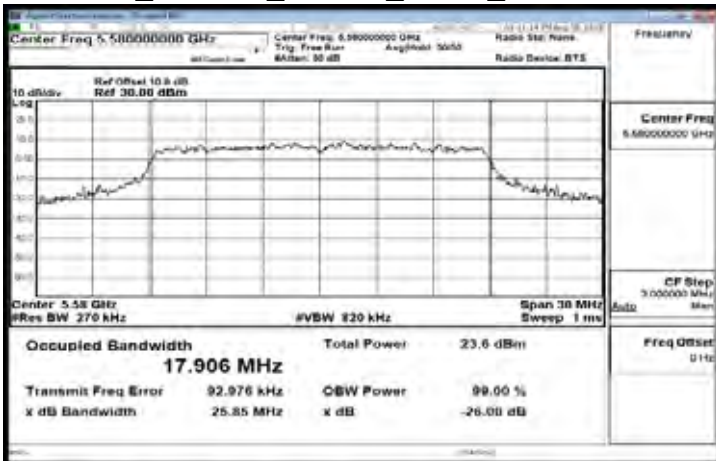
FCC_802.11n_20MHz_AUX1_5500MHz



FCC_802.11n_20MHz_AUX1_5720MHz



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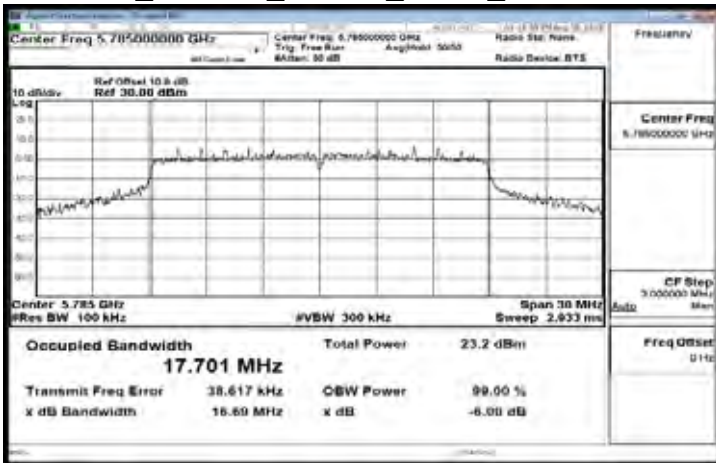


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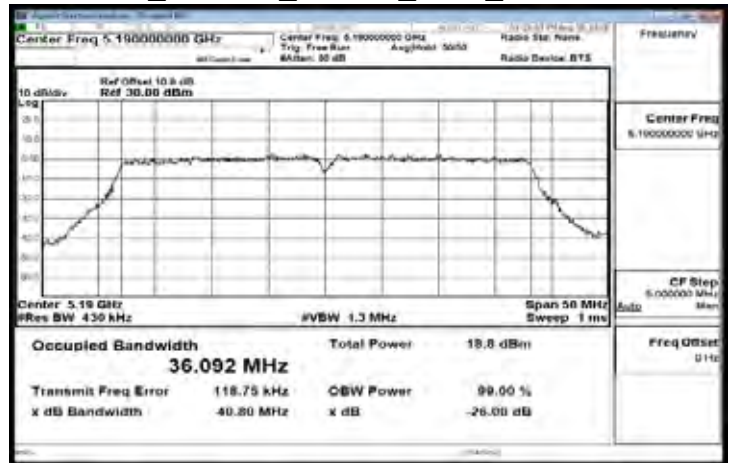
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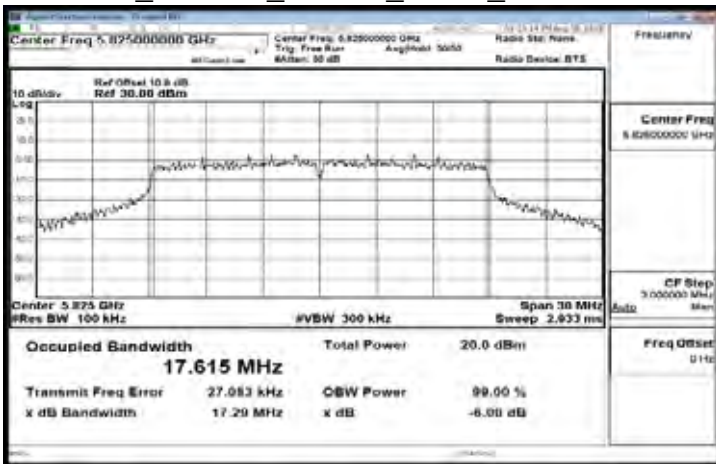
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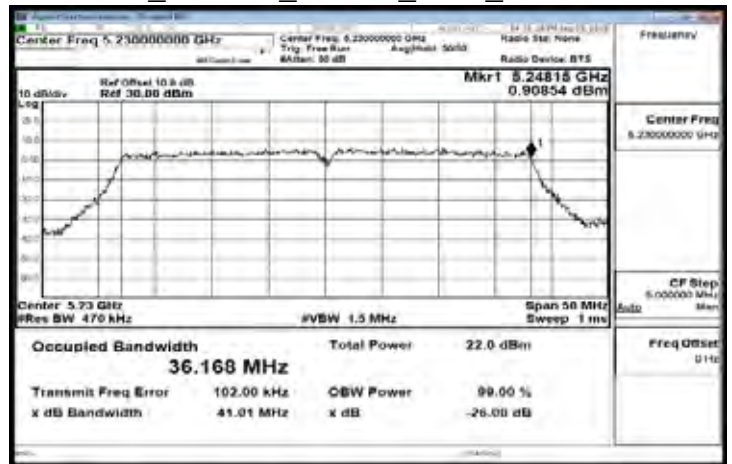
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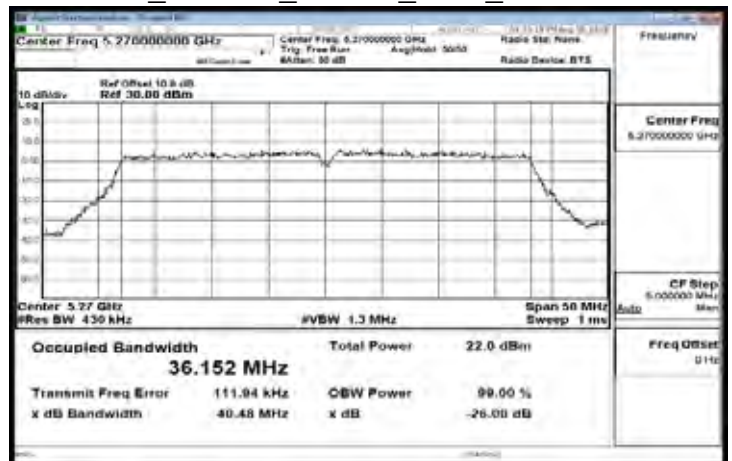
FCC_802.11n_20MHz_AUX1_5825MHz



FCC_802.11n_40MHz_Main_5230MHz



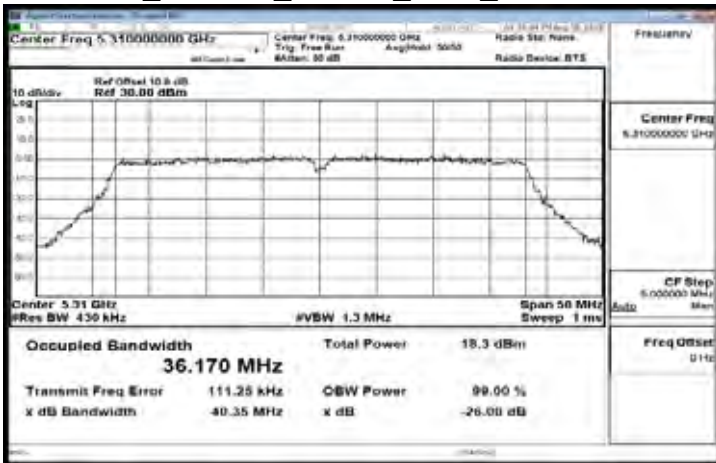
FCC_802.11n_40MHz_Main_5270MHz



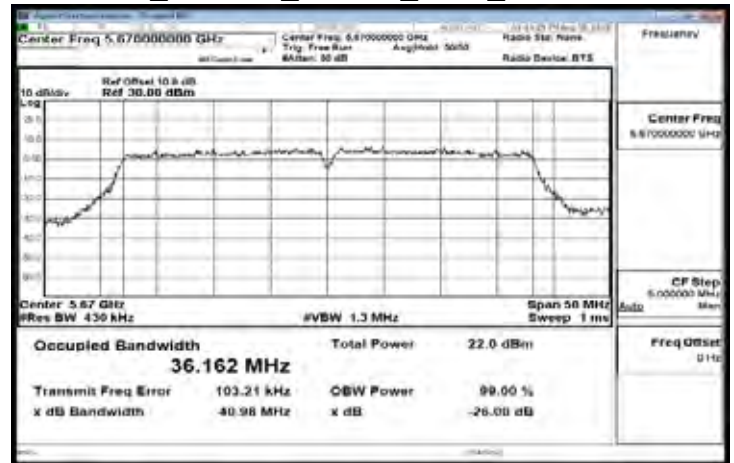
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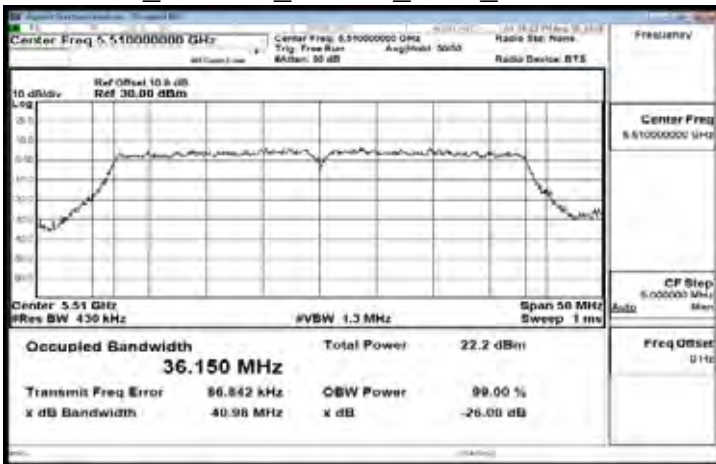
FCC_802.11n_40MHz_Main_5310MHz



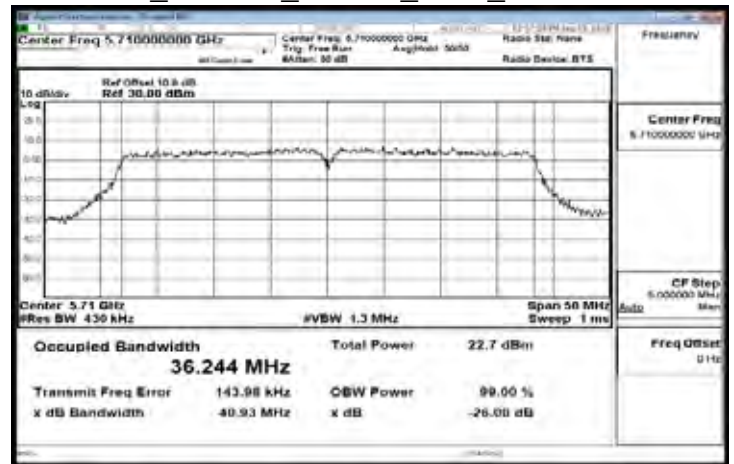
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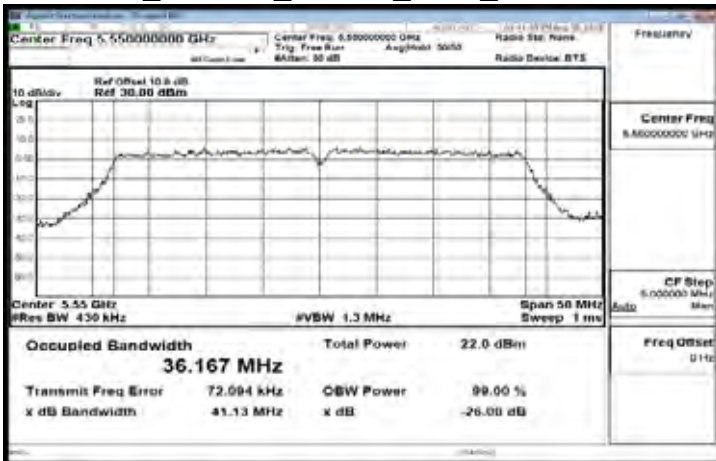
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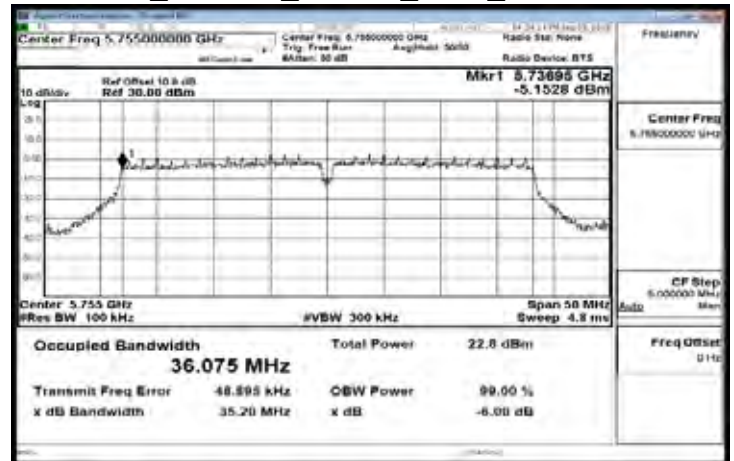
FCC_802.11n_40MHz_Main_5710MHz



FCC_802.11n_40MHz_Main_5550MHz



FCC_802.11n_40MHz_Main_5755MHz

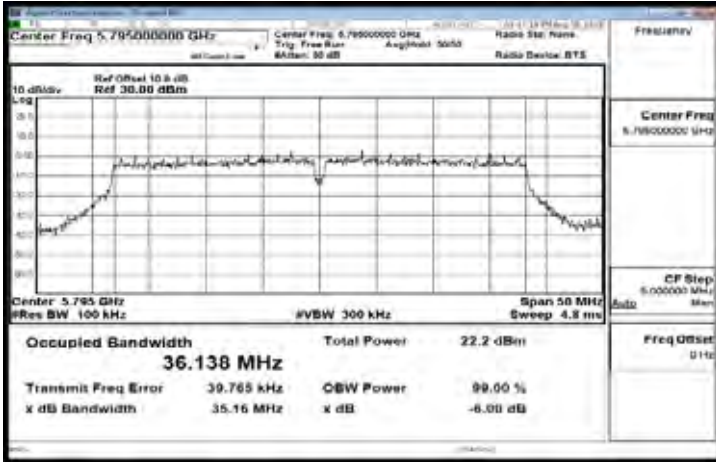


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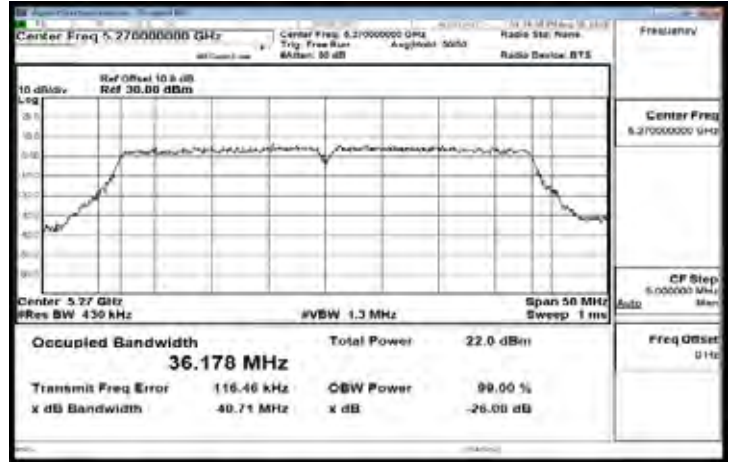
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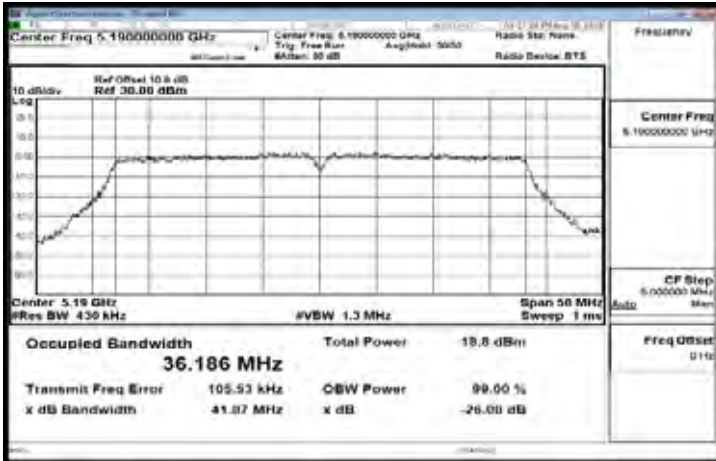
FCC_802.11n_40MHz_Main_5795MHz



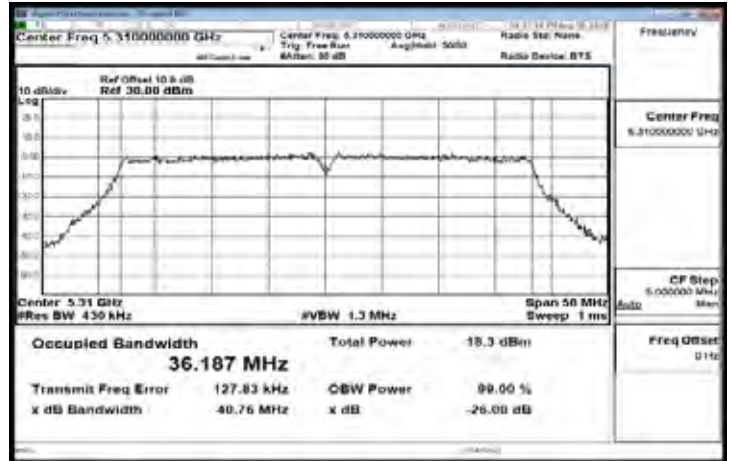
FCC_802.11n_40MHz_AUX1_5270MHz



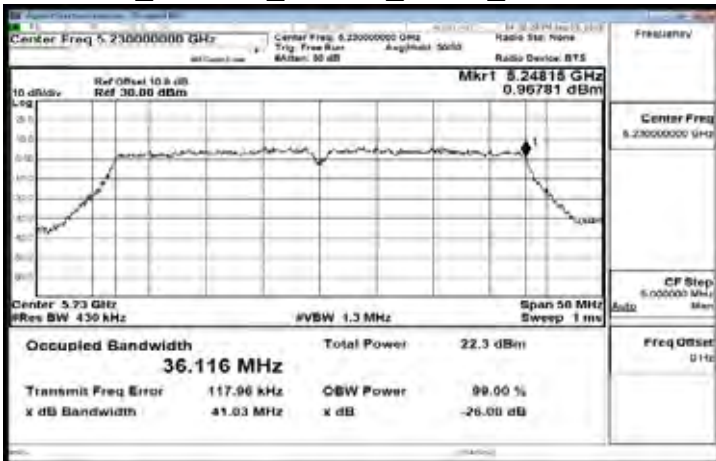
FCC_802.11n_40MHz_AUX1_5190MHz



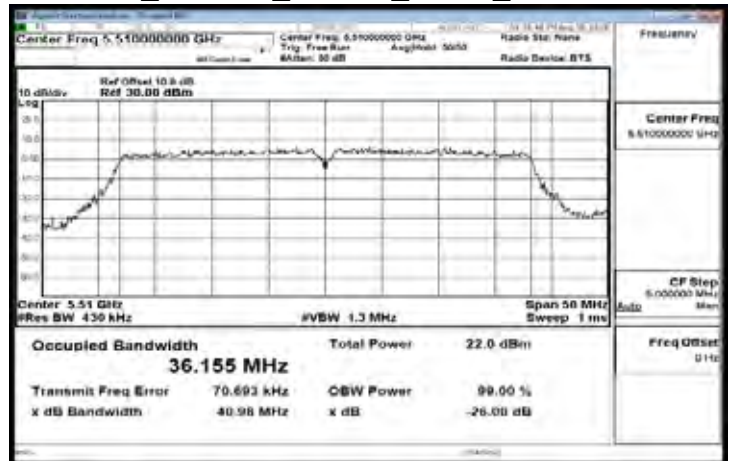
FCC_802.11n_40MHz_AUX1_5310MHz



FCC_802.11n_40MHz_AUX1_5230MHz



FCC_802.11n_40MHz_AUX1_5510MHz

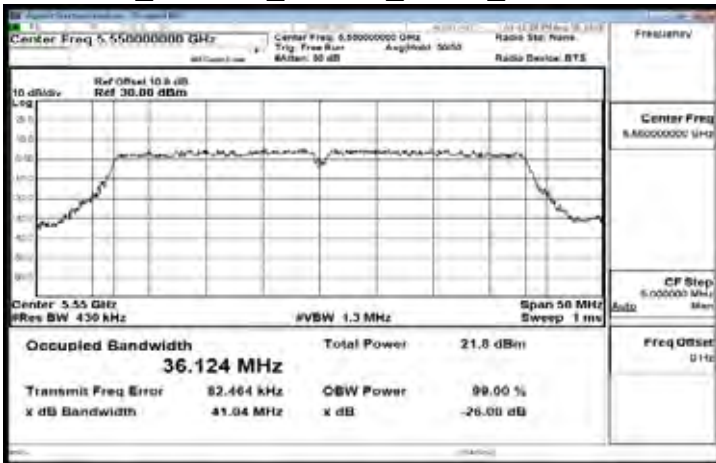


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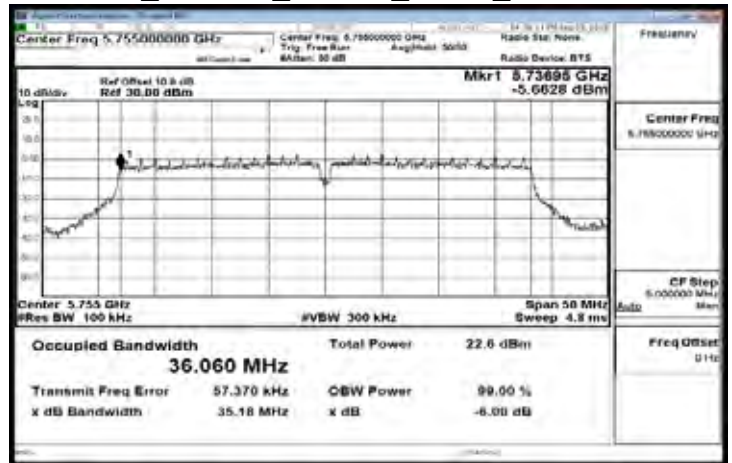
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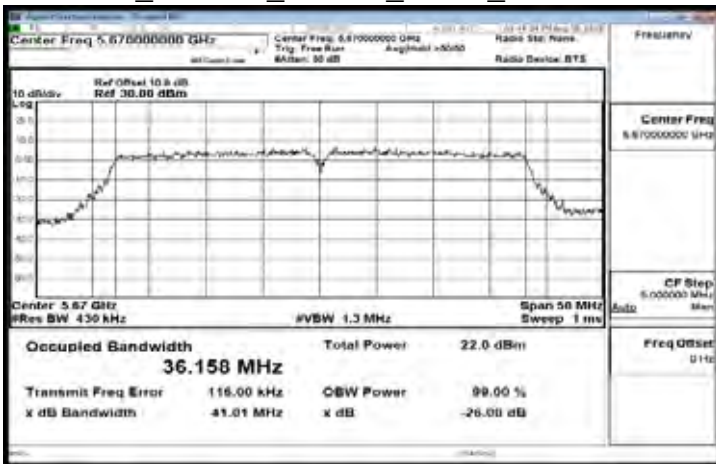
FCC_802.11n_40MHz_AUX1_5550MHz



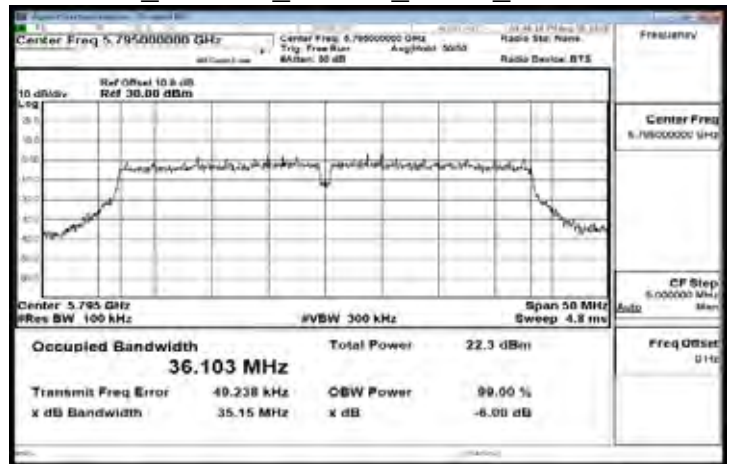
FCC_802.11n_40MHz_AUX1_5755MHz



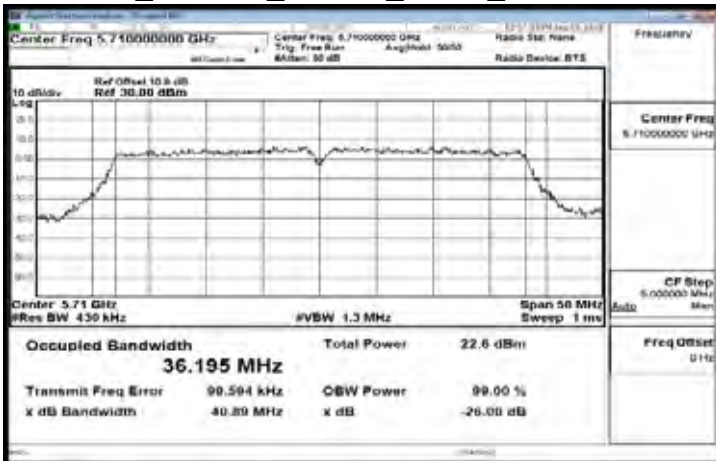
FCC_802.11n_40MHz_AUX1_5670MHz



FCC_802.11n_40MHz_AUX1_5795MHz



FCC_802.11n_40MHz_AUX1_5710MHz

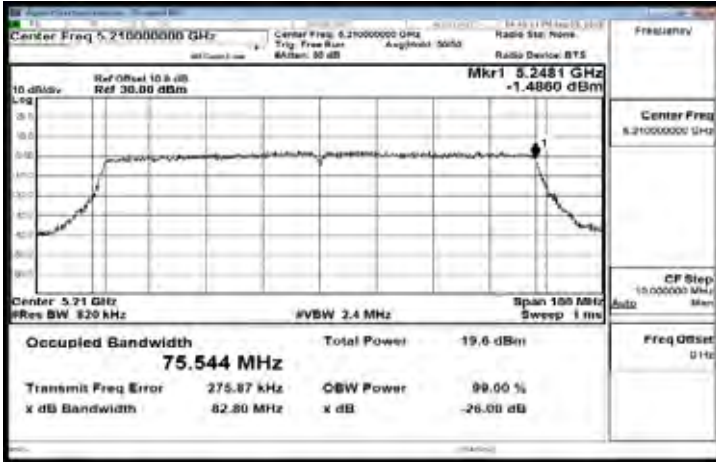


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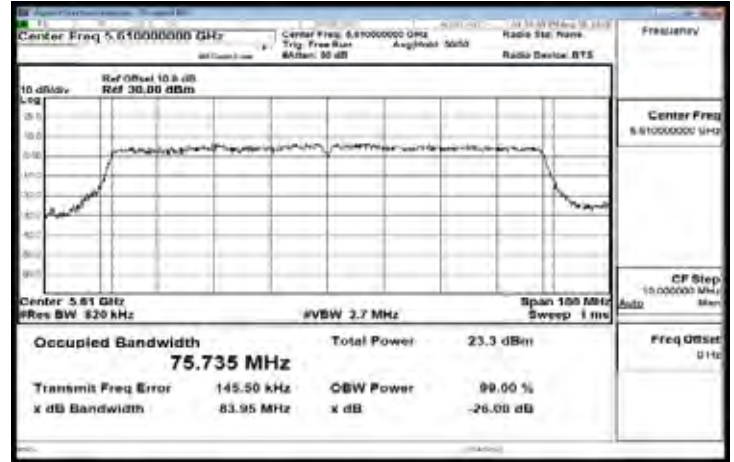
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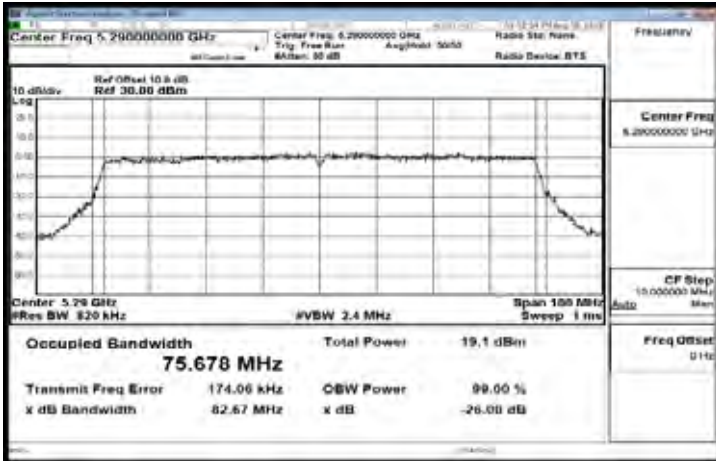
FCC_802.11ac_80MHz_Main_5210MHz



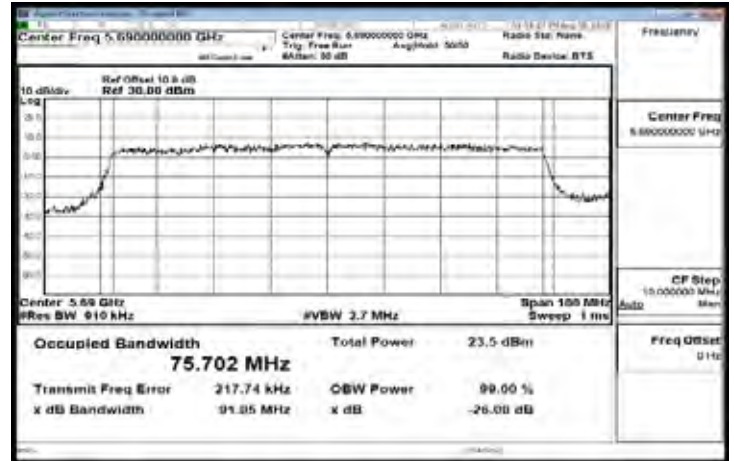
FCC_802.11ac_80MHz_Main_5610MHz



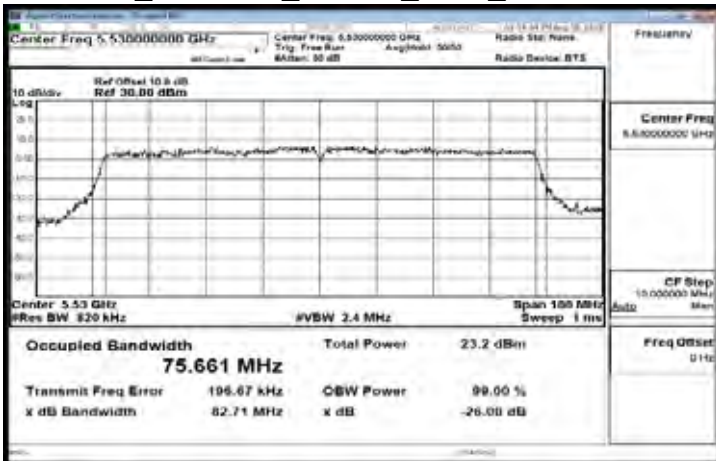
FCC_802.11ac_80MHz_Main_5290MHz



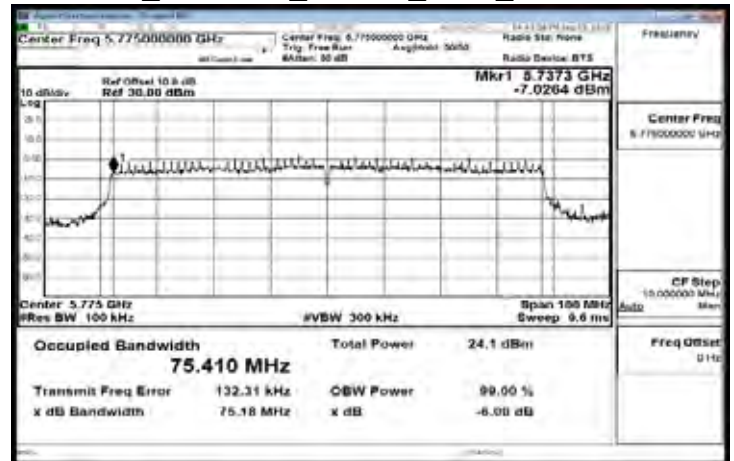
FCC_802.11ac_80MHz_Main_5690MHz



FCC_802.11ac_80MHz_Main_5530MHz



FCC_802.11ac_80MHz_Main_5775MHz

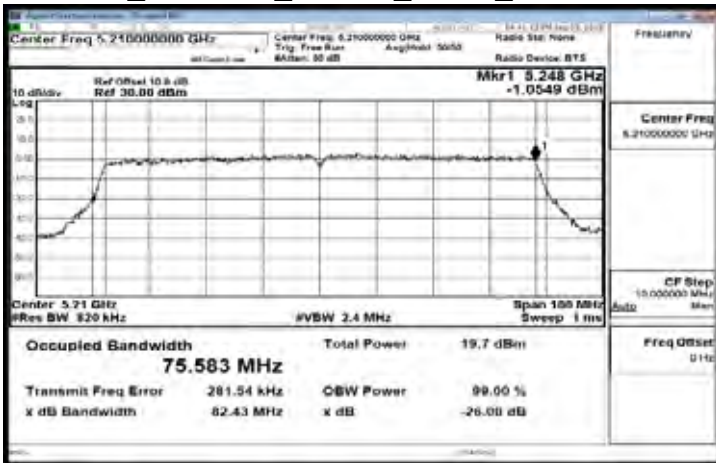


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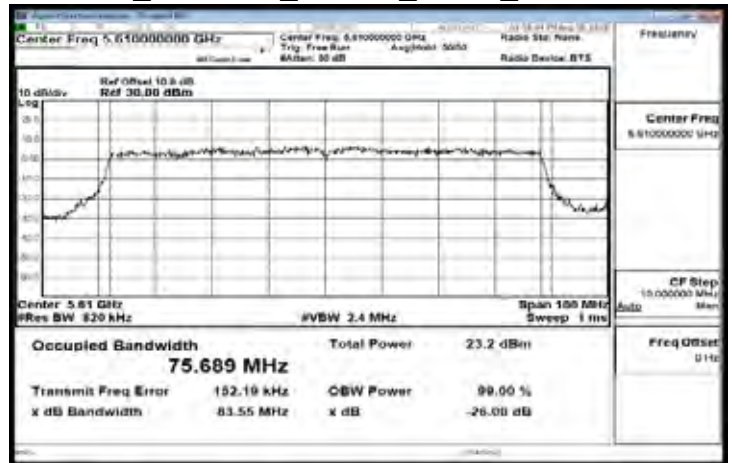
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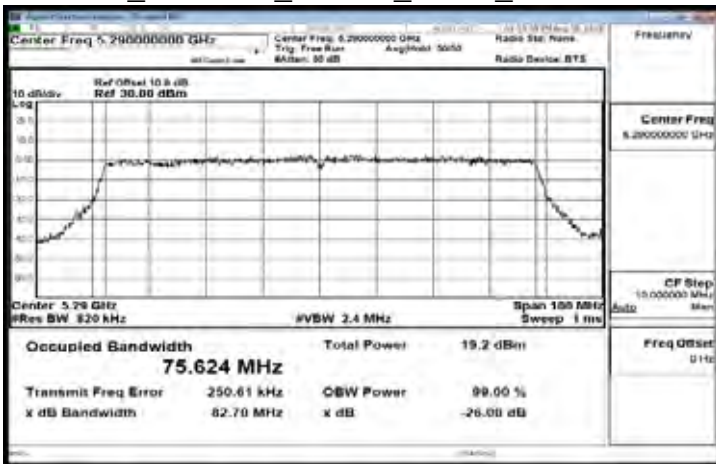
FCC_802.11ac_80MHz_AUX1_5210MHz



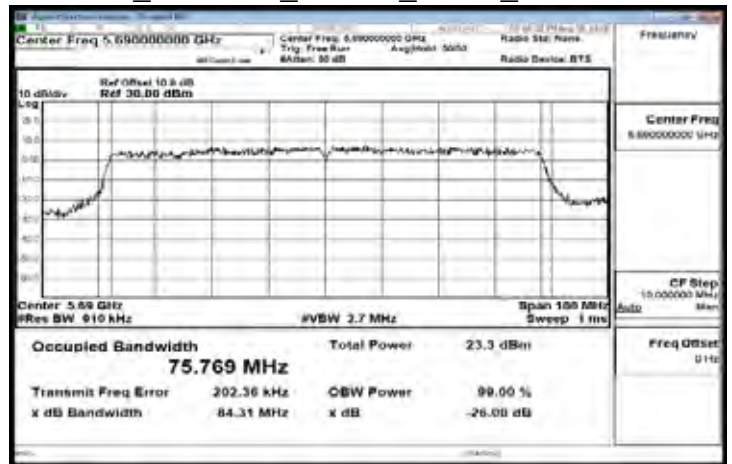
FCC_802.11ac_80MHz_AUX1_5610MHz



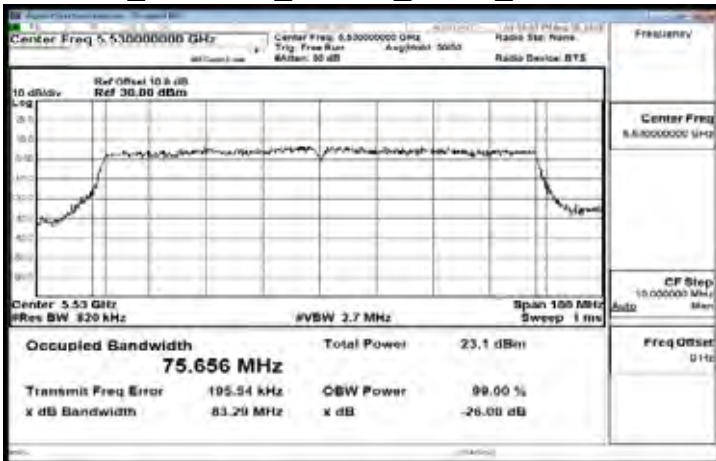
FCC_802.11ac_80MHz_AUX1_5290MHz



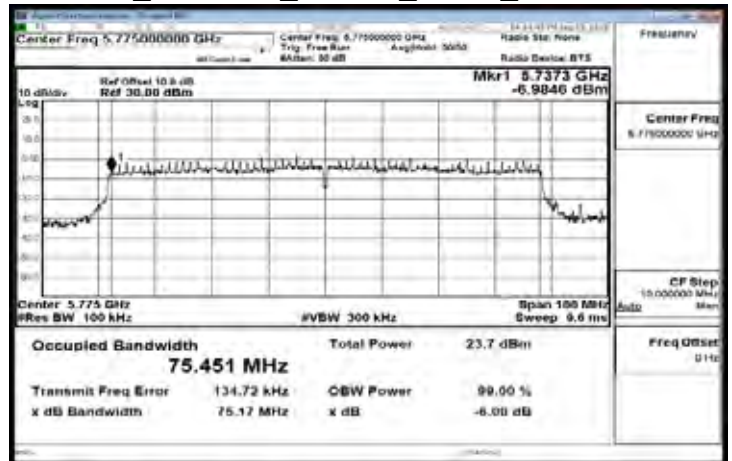
FCC_802.11ac_80MHz_AUX1_5690MHz



FCC_802.11ac_80MHz_AUX1_5530MHz



FCC_802.11ac_80MHz_AUX1_5775MHz



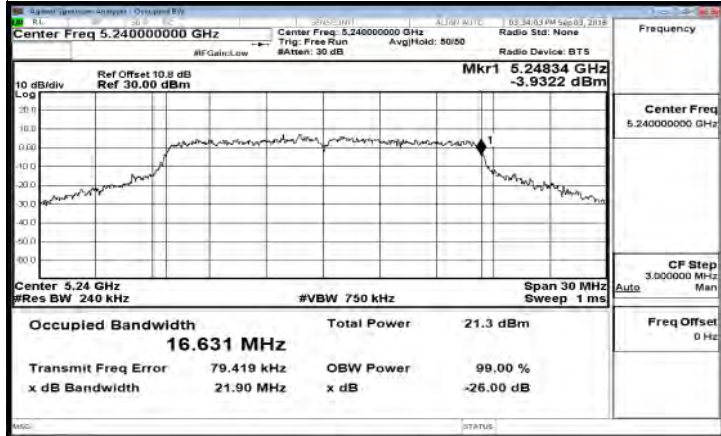
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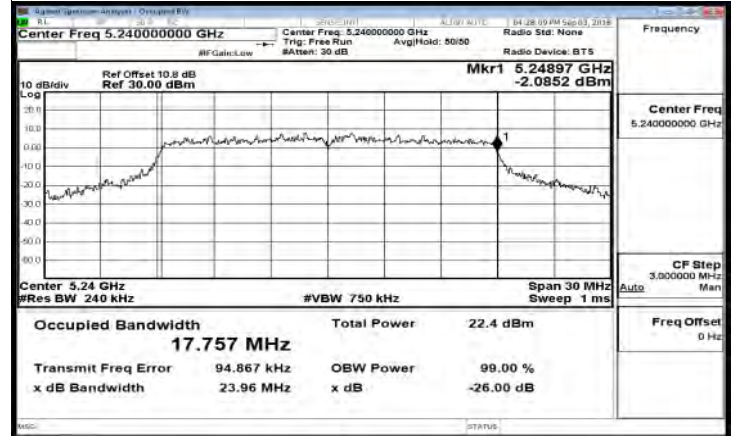
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99% BW to prove that all signals in band I is no over band U-NII-1

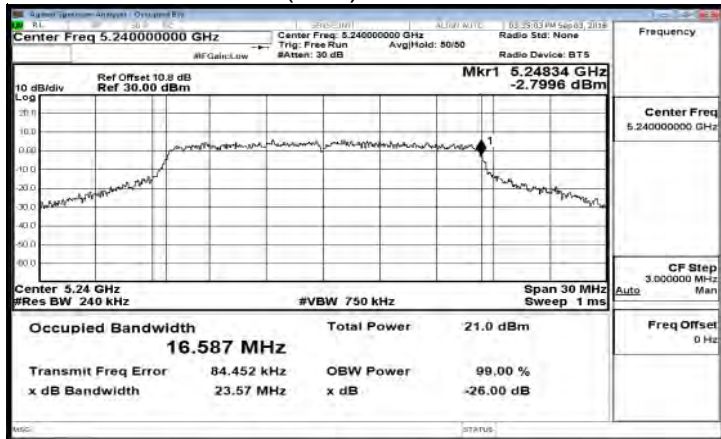
802.11a_5240MHz (Main)



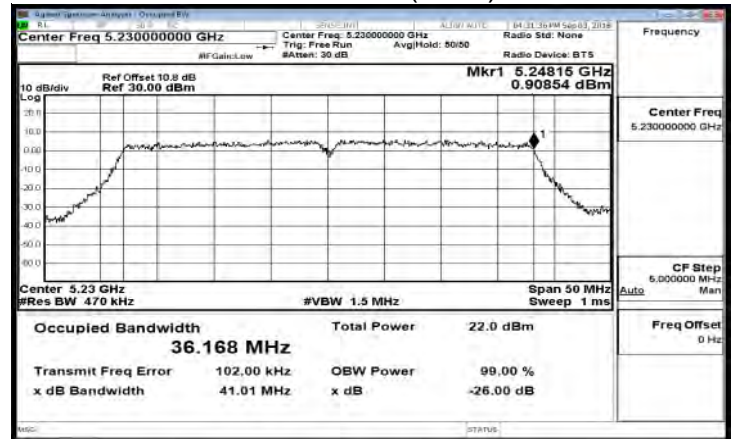
802.11n_20MHz_5240MHz (Aux)



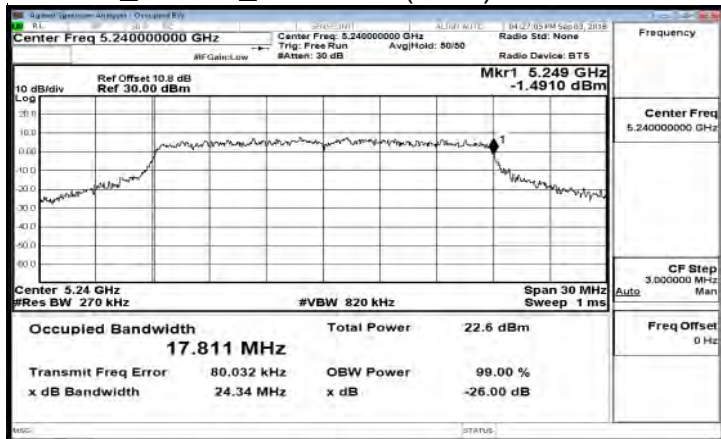
802.11a_5240MHz (Aux)



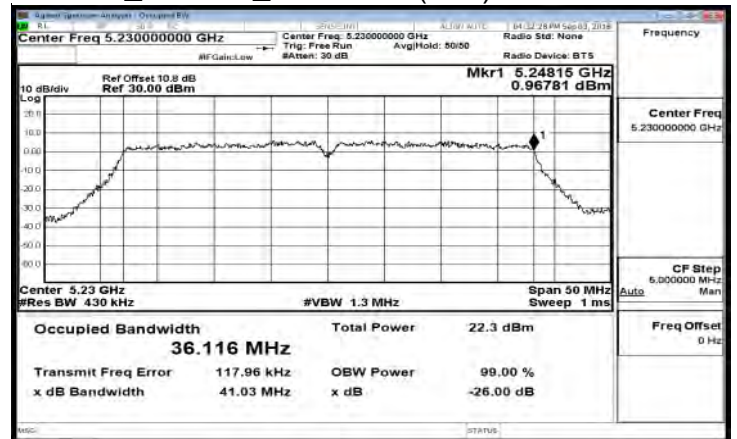
802.11n_40MHz_5230MHz (Main)



802.11n_20MHz_5240MHz (Main)



802.11n_40MHz_5230MHz (Aux)

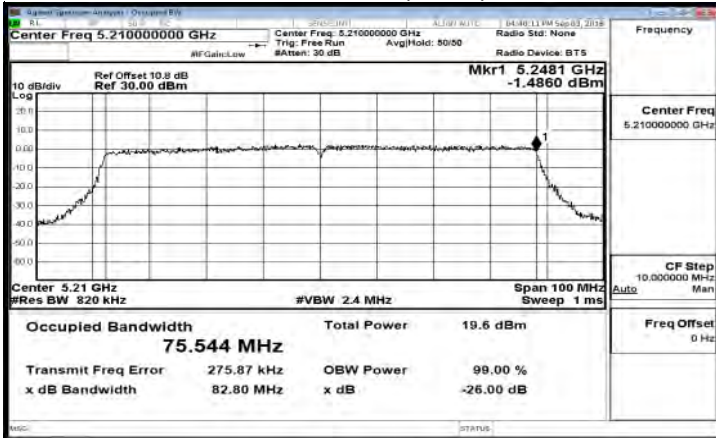


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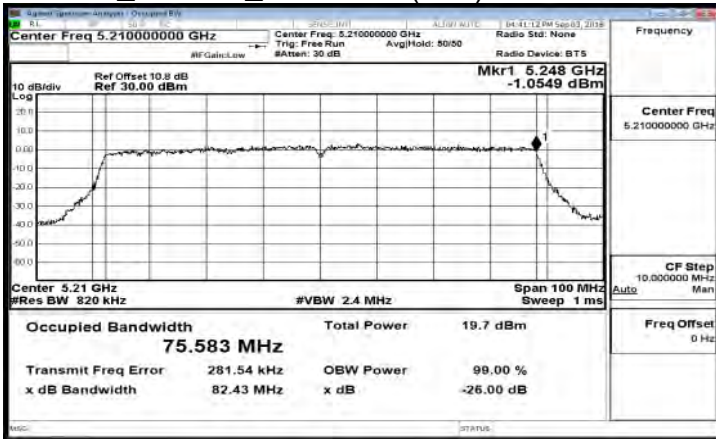
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802.11n_80MHz_5210MHz (Main)



802.11n_80MHz_5210MHz (Aux)

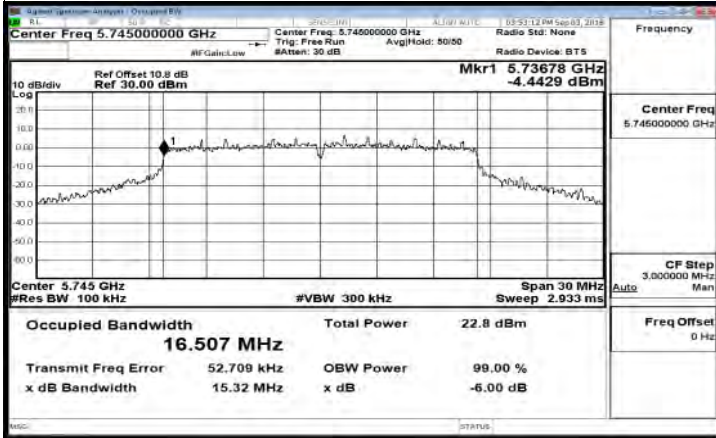


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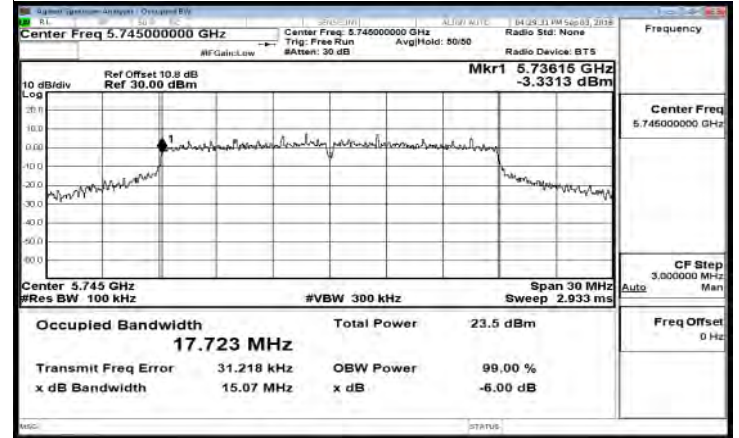
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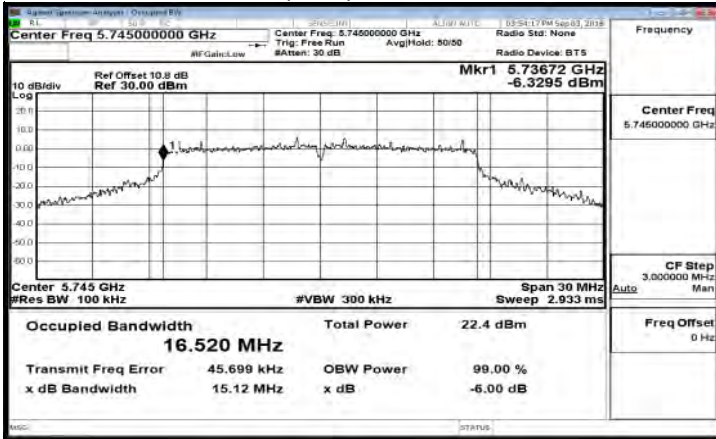
99% BW to prove that all signals in band I is no over band U-NII-3
802.11a_5745MHz (Main)



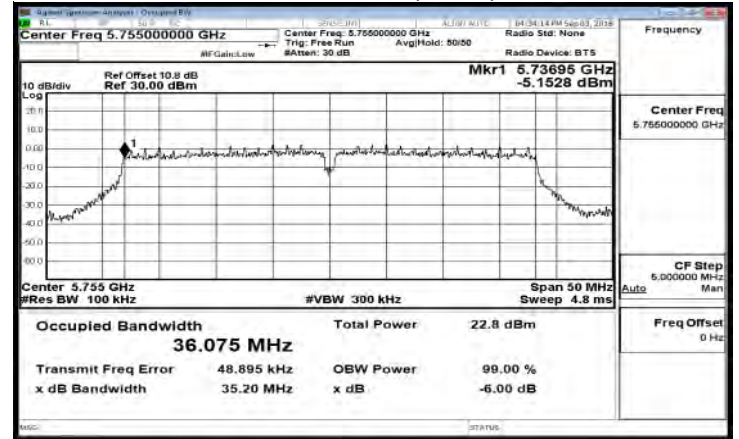
802.11n_20MHz_5745MHz (Aux)



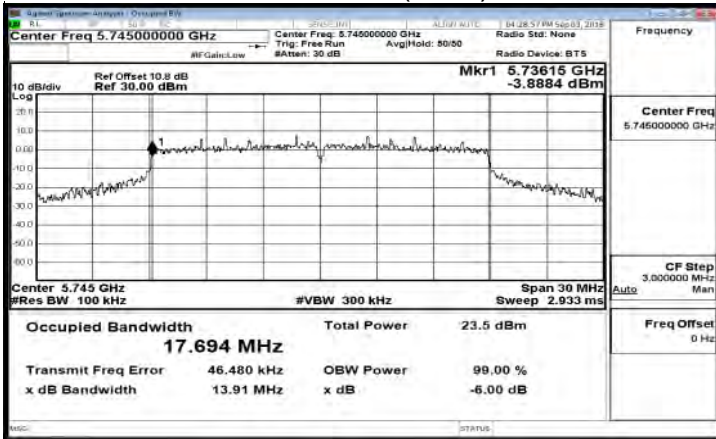
802.11a_5745MHz (Aux)



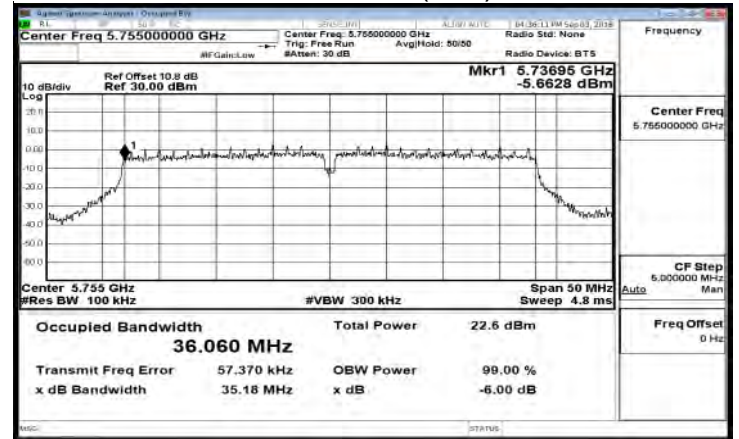
802.11n_40MHz_5775MHz (Main)



802.11n_20MHz_5745MHz (Main)



802.11n_40MHz_5775MHz (Aux)

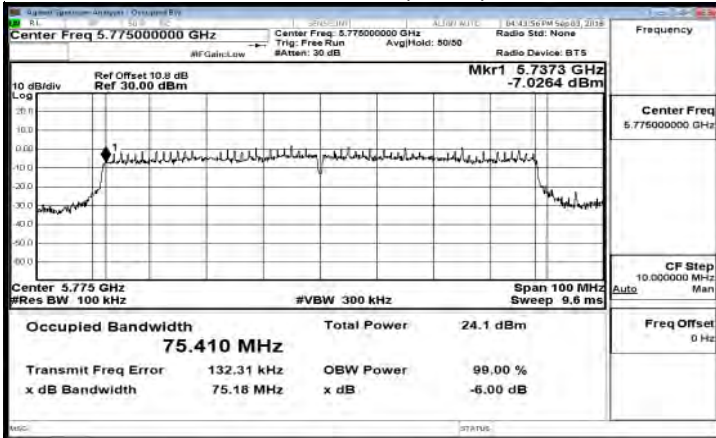


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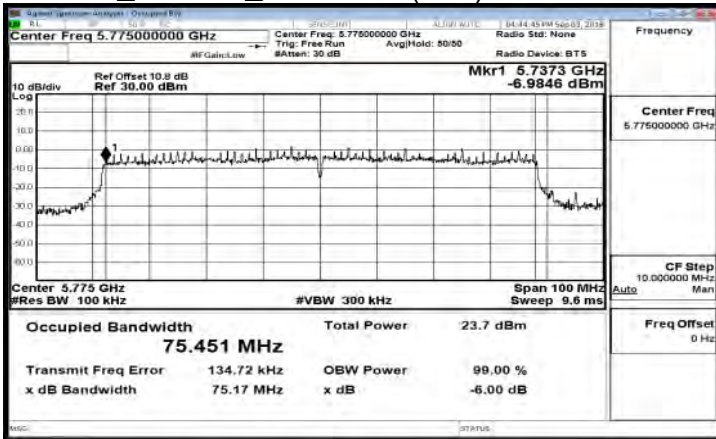
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802.11n_80MHz_5775MHz (Main)



802.11n_80MHz_5775MHz (Aux)



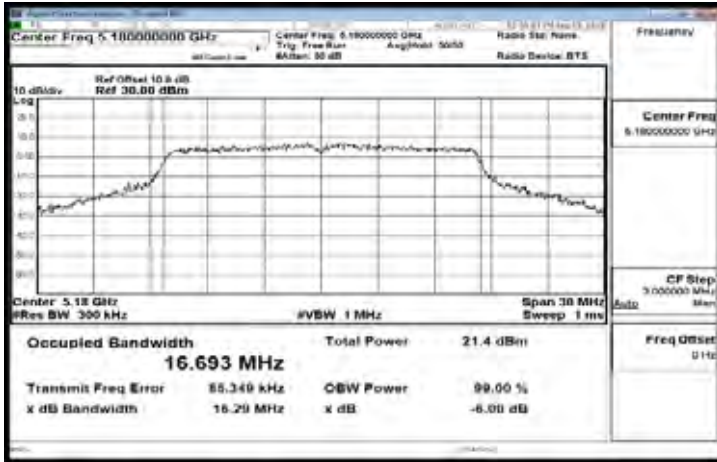
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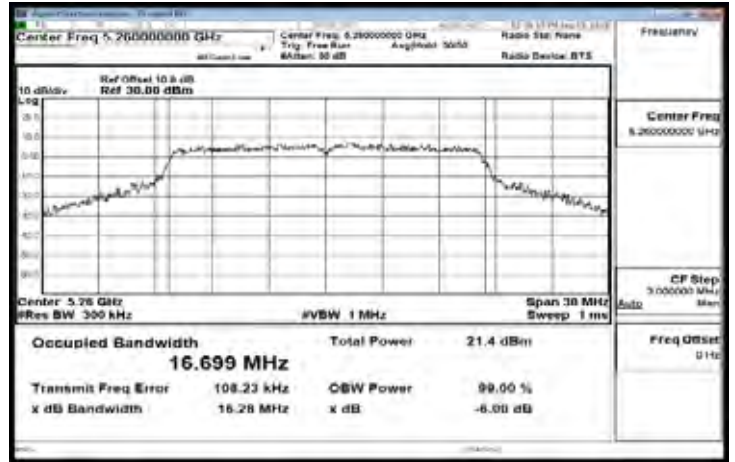
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For 99%,

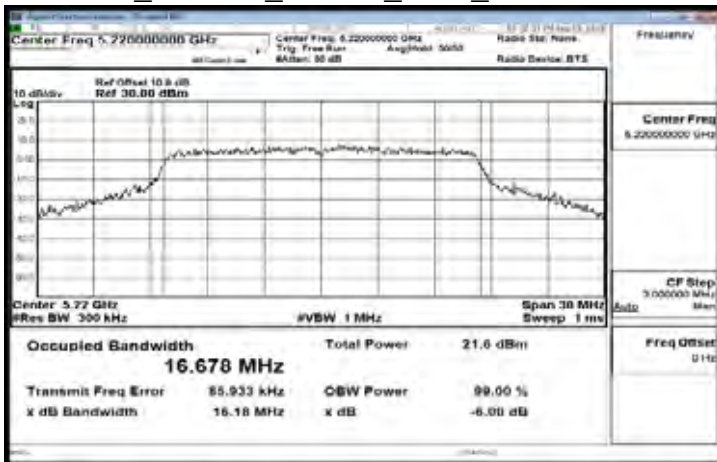
IC_802.11a_20MHz_Main_5180MHz



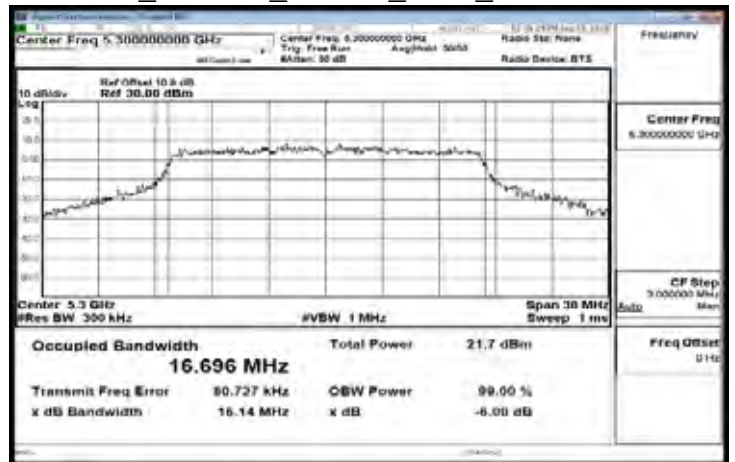
IC_802.11a_20MHz_Main_5260MHz



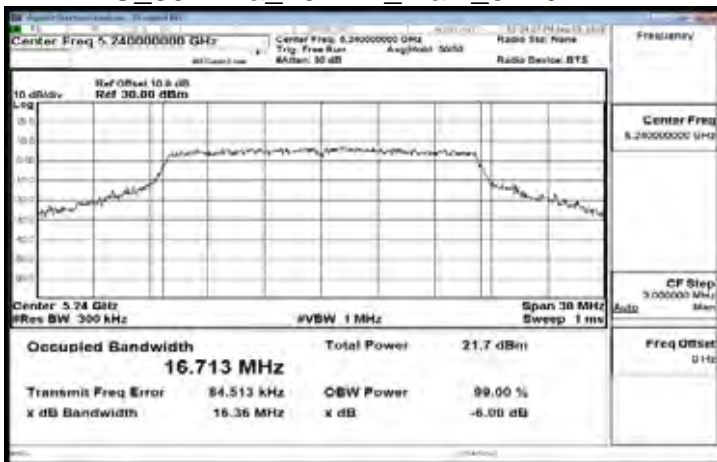
IC_802.11a_20MHz_Main_5220MHz



IC_802.11a_20MHz_Main_5300MHz



IC_802.11a_20MHz_Main_5240MHz



IC_802.11a_20MHz_Main_5320MHz

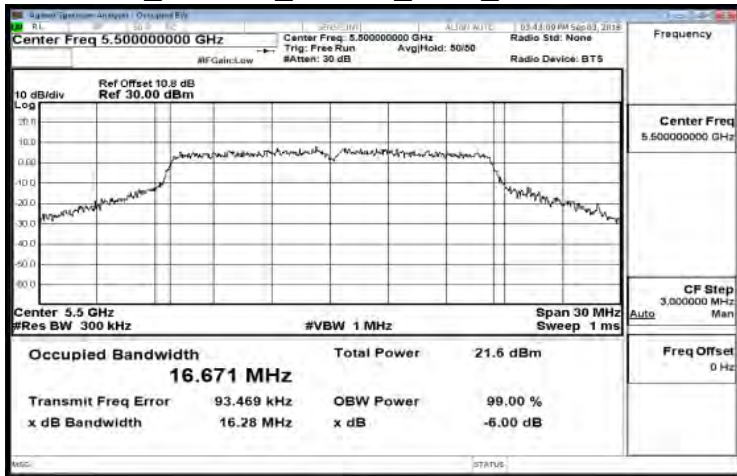


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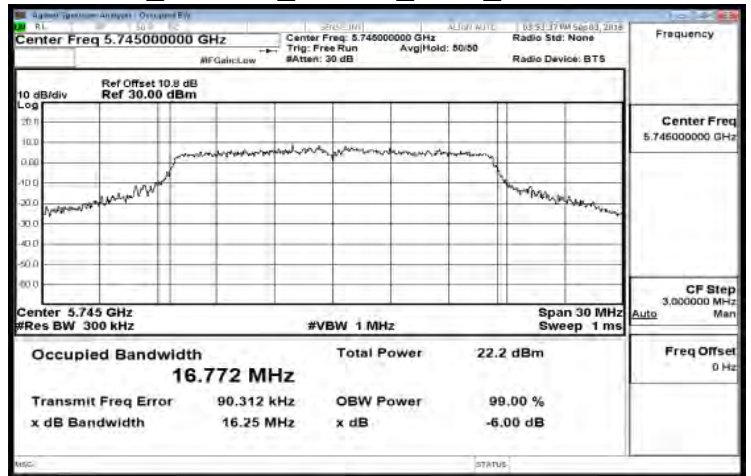
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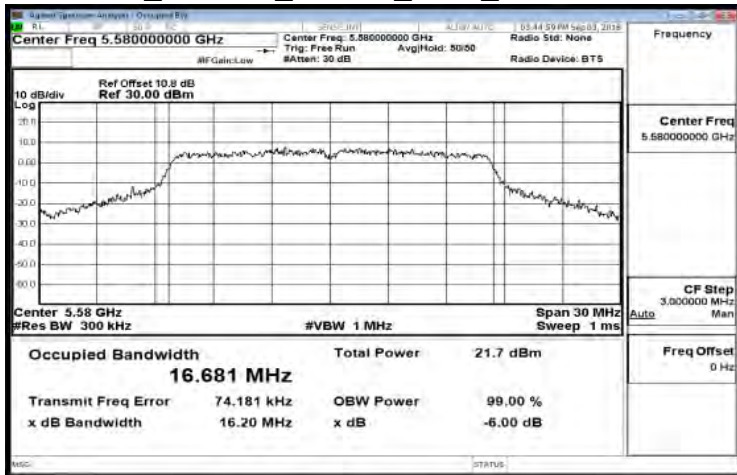
IC_802.11a_20MHz_Main_5500MHz



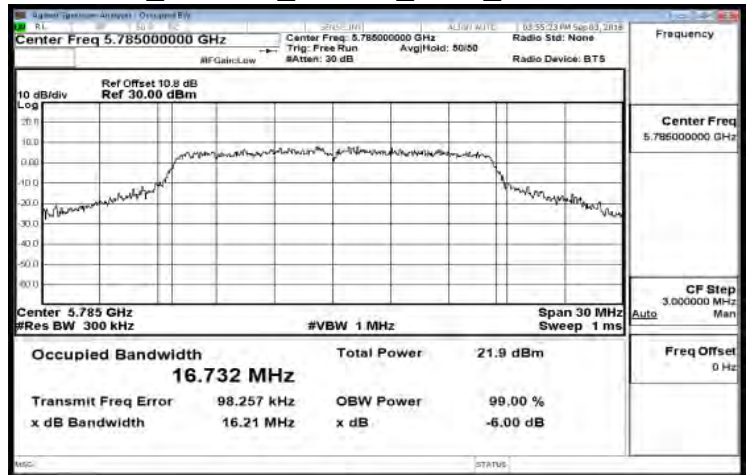
IC_802.11a_20MHz_Main_5745MHz



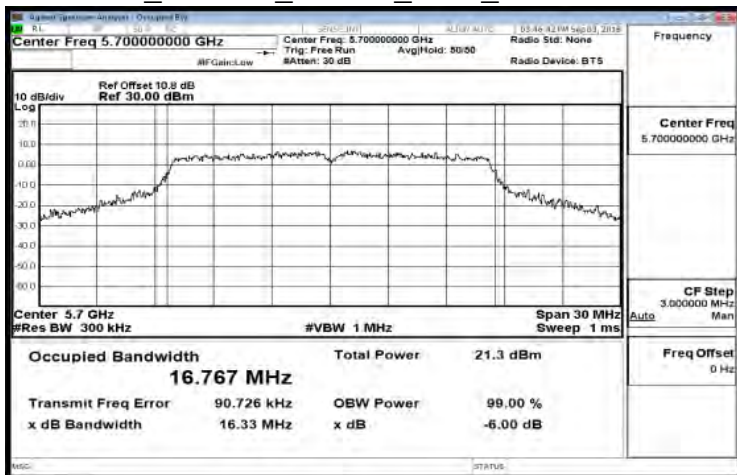
IC_802.11a_20MHz_Main_5580MHz



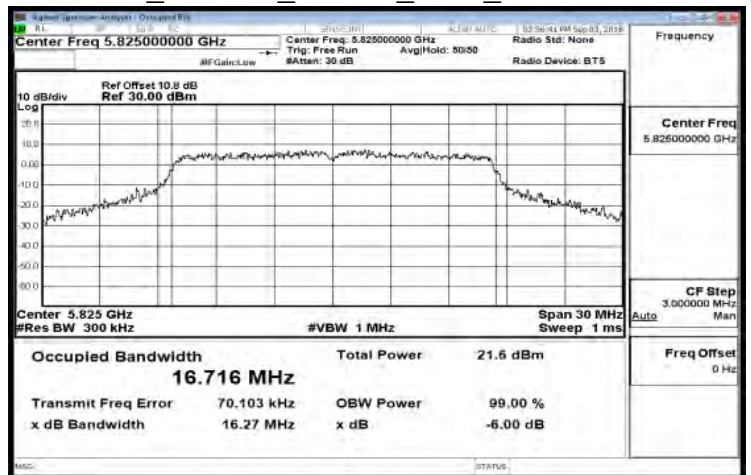
IC_802.11a_20MHz_Main_5785MHz



IC_802.11a_20MHz_Main_5700MHz



IC_802.11a_20MHz_Main_5825MHz

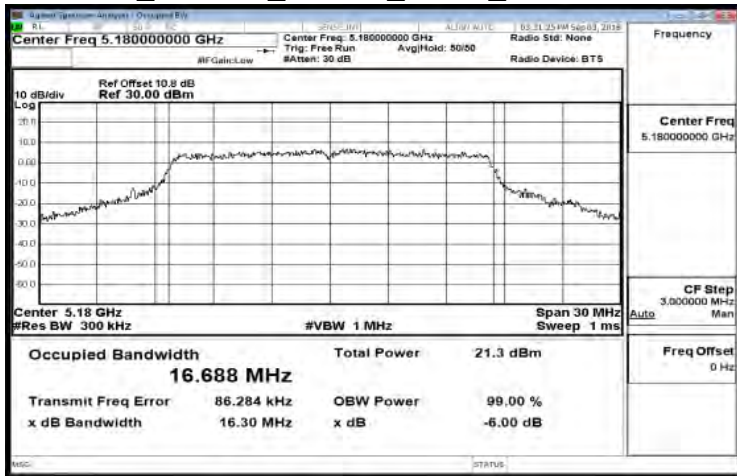


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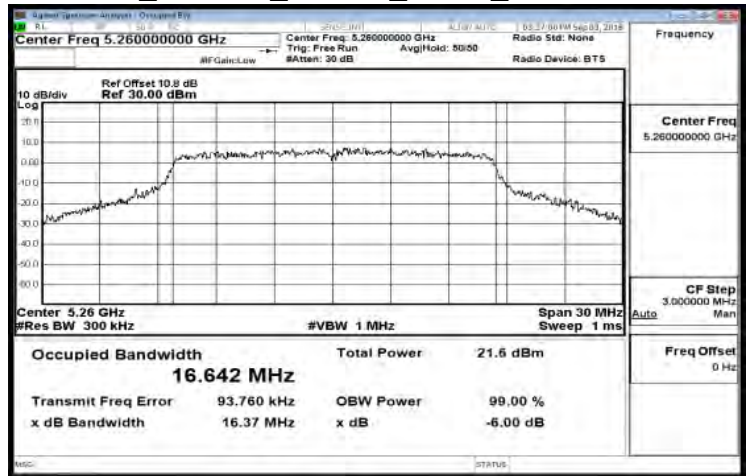
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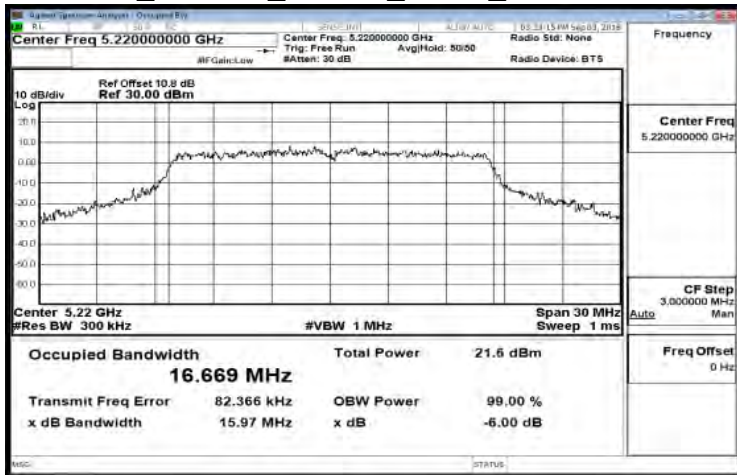
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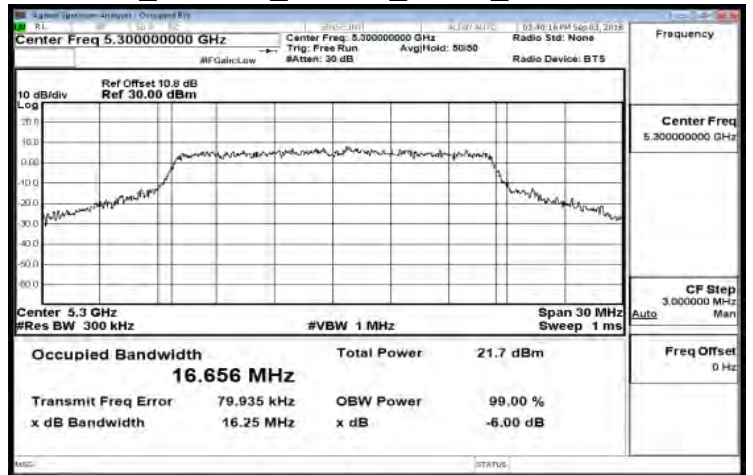
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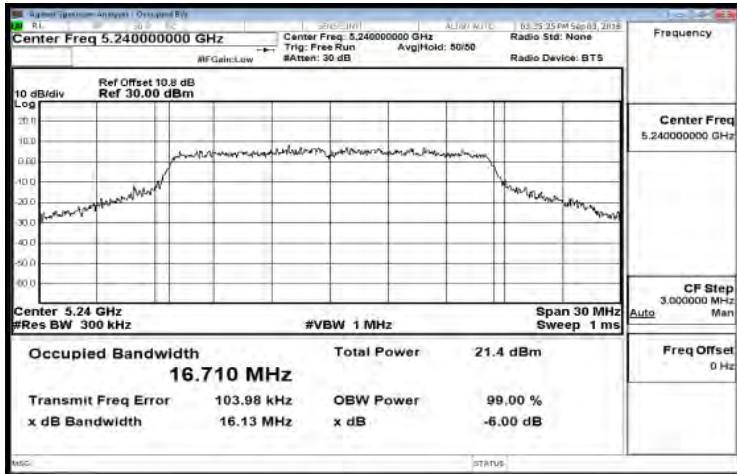
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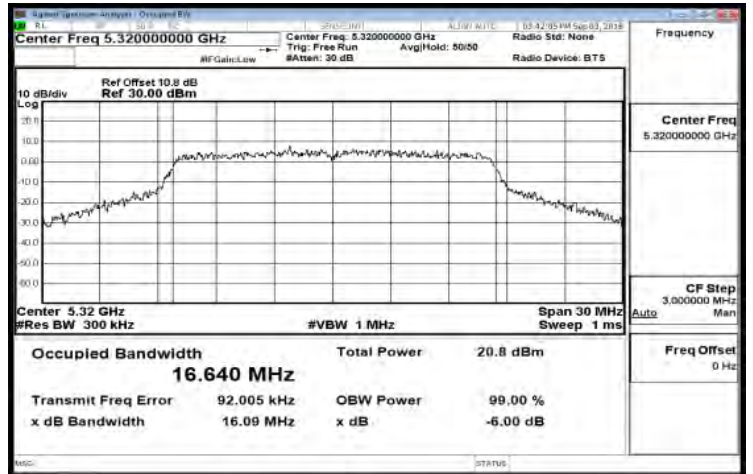
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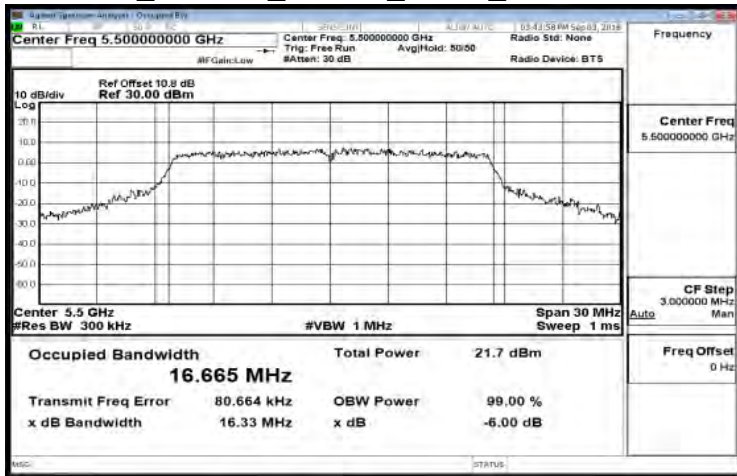
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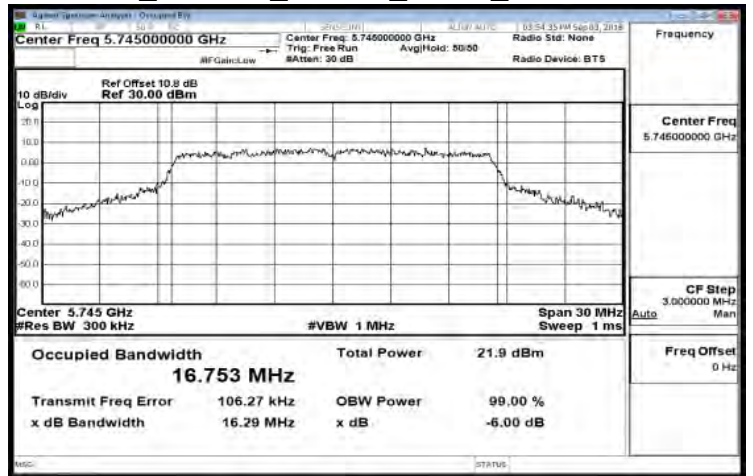
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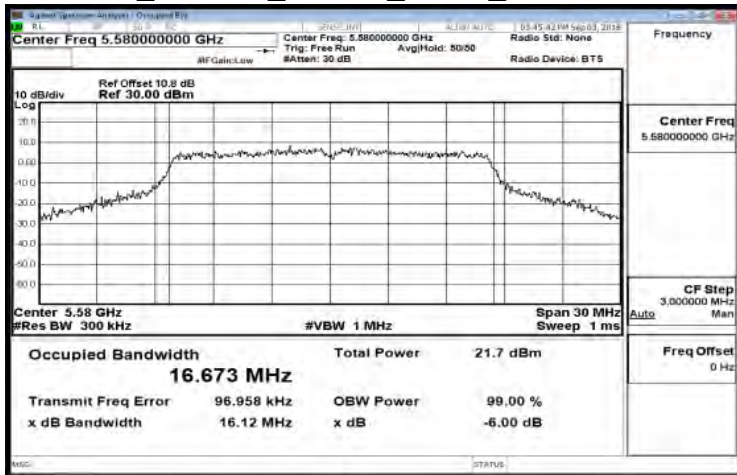
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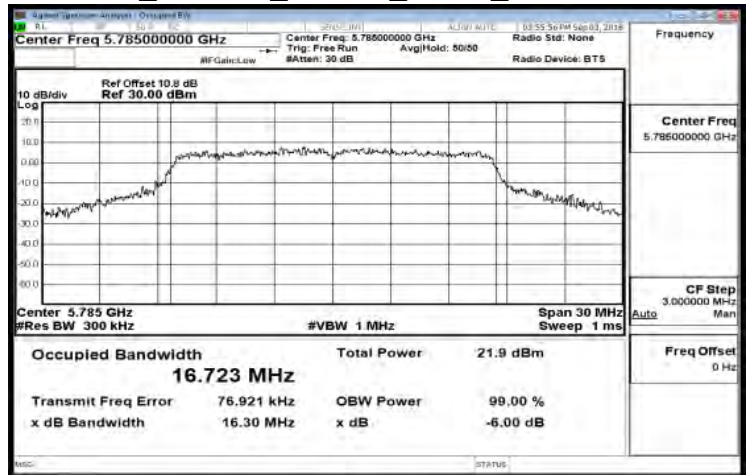
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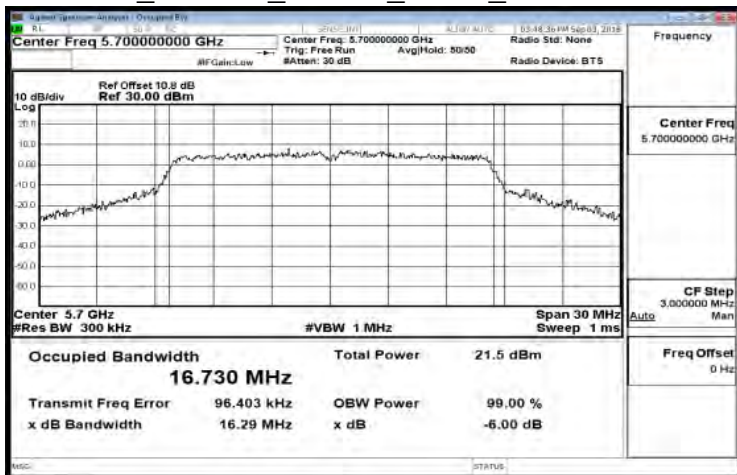
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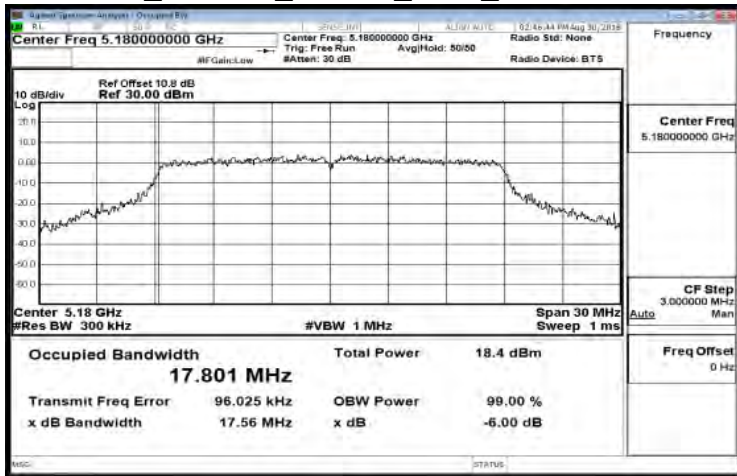


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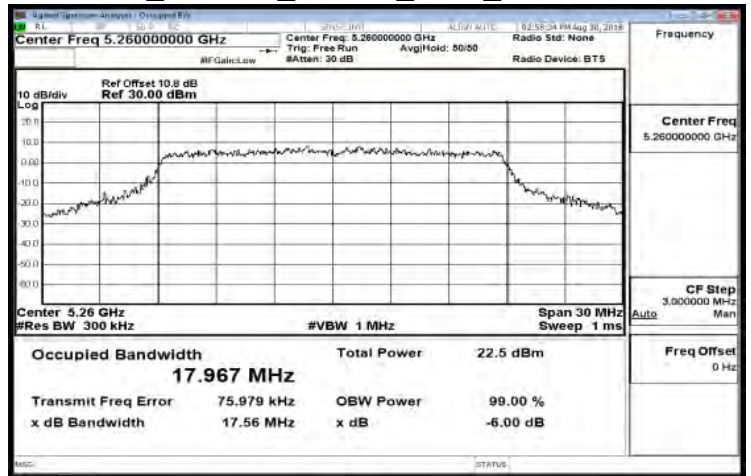
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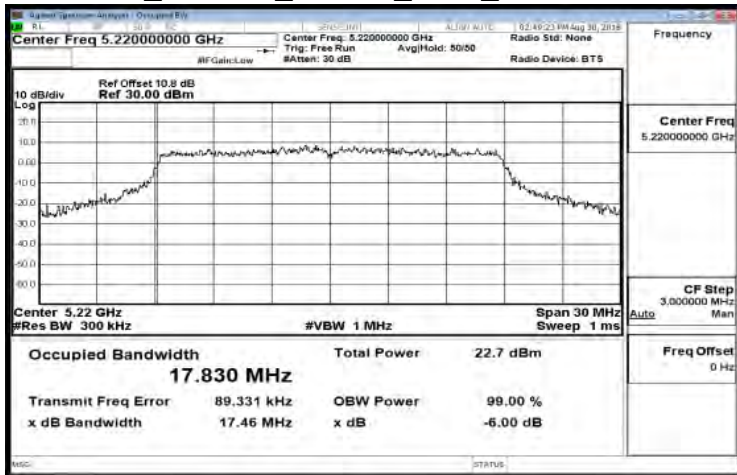
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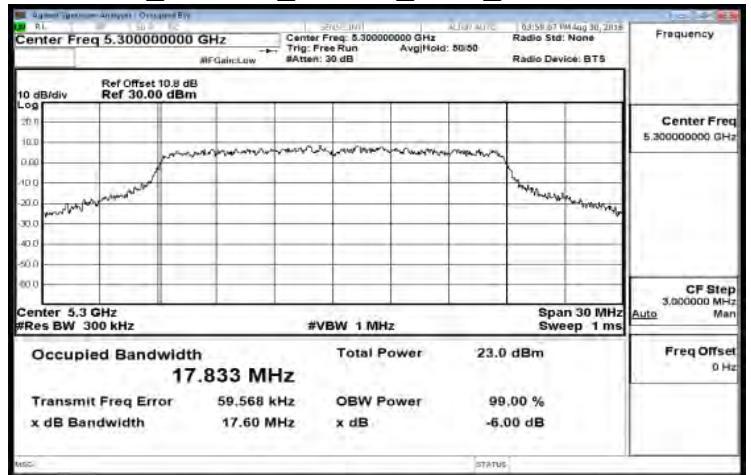
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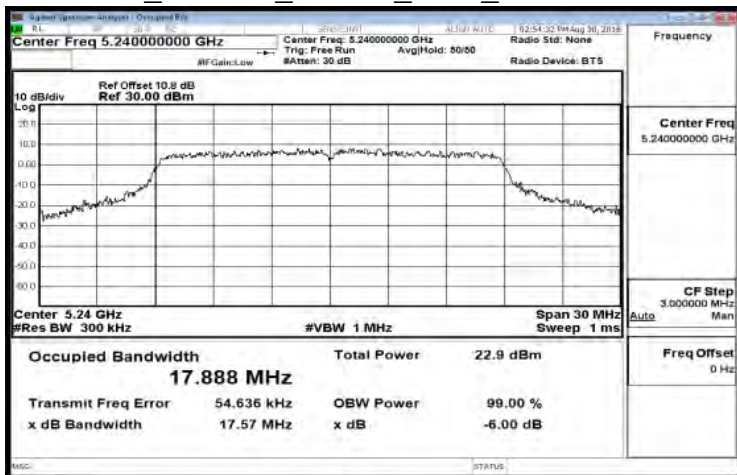
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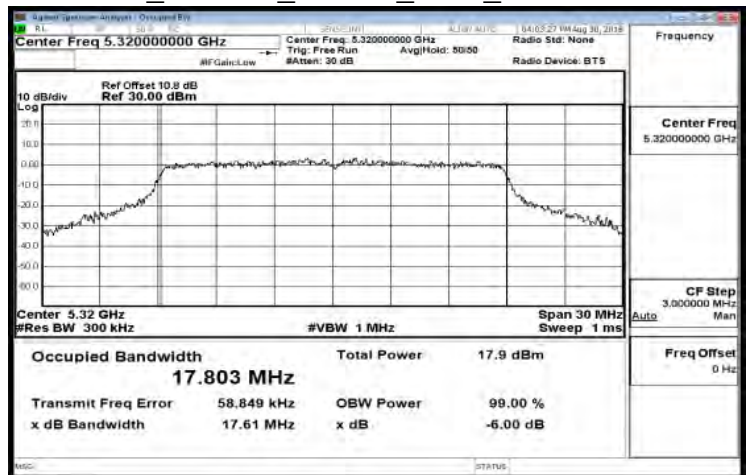
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IC_802.11n_20MHz_Main_5240MHz



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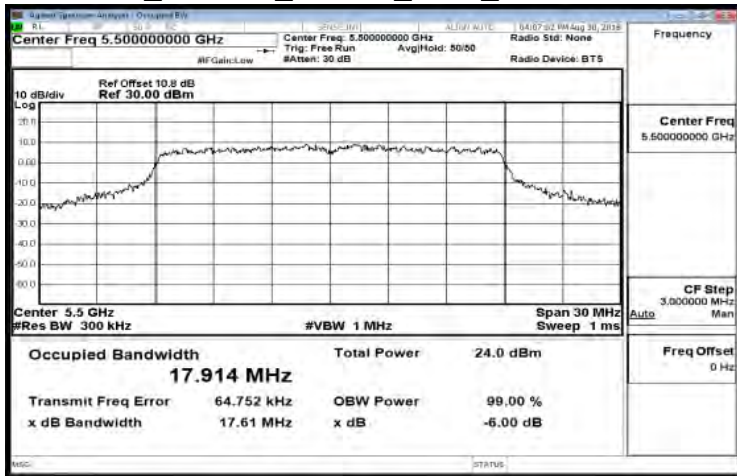


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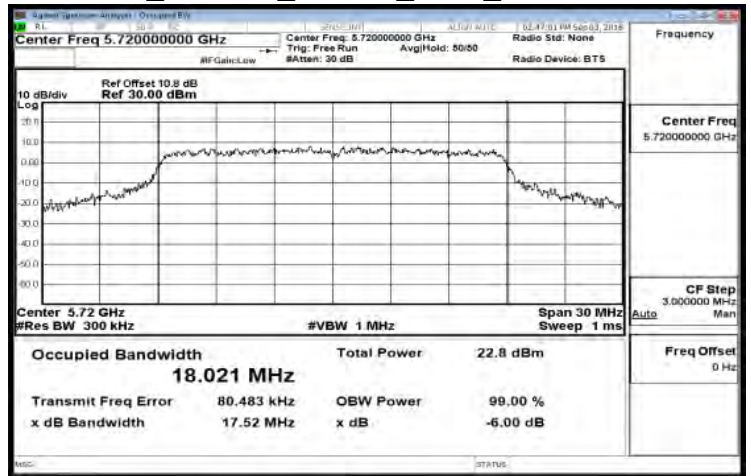
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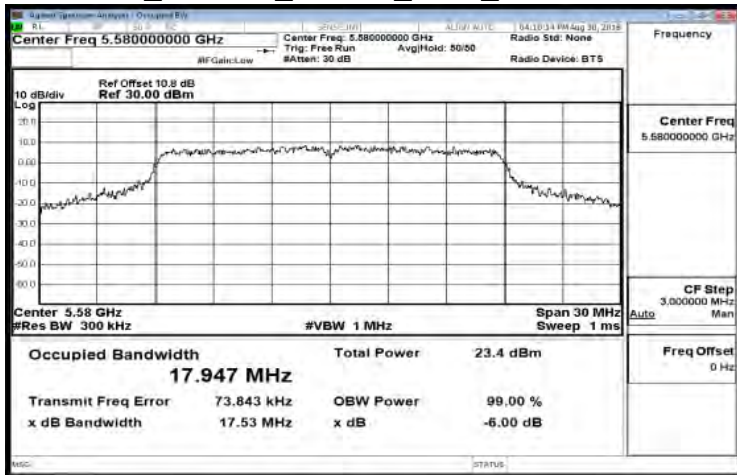
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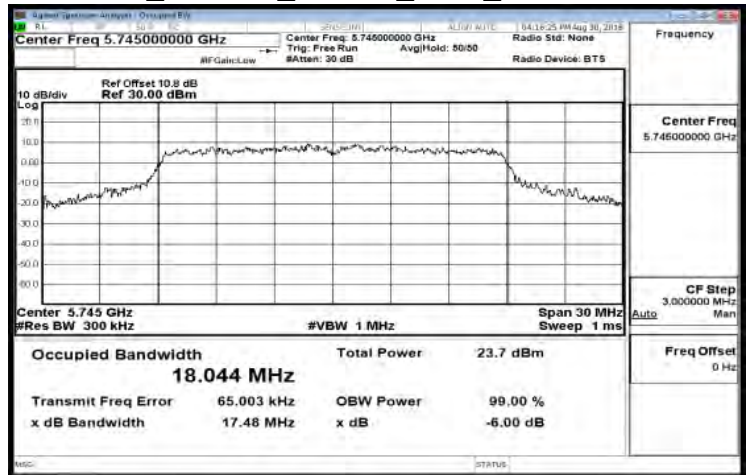
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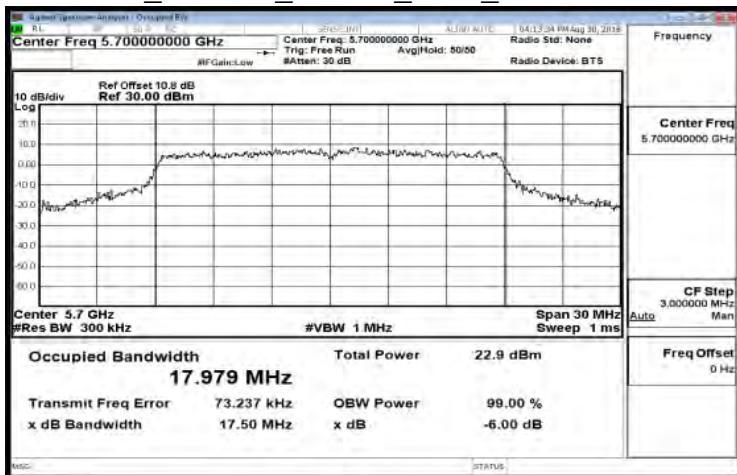
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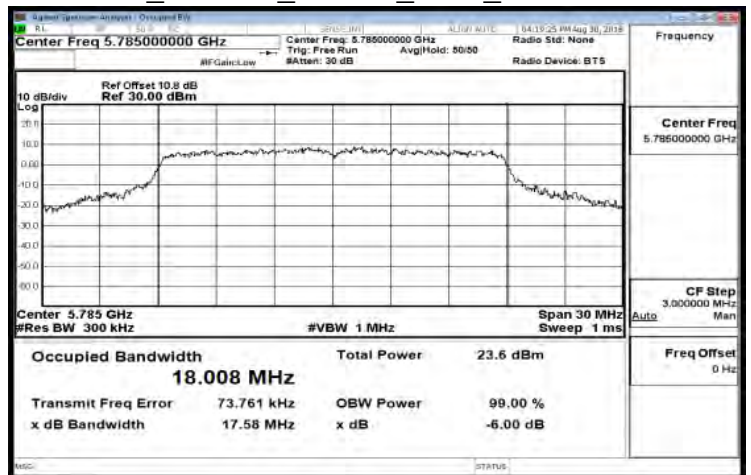
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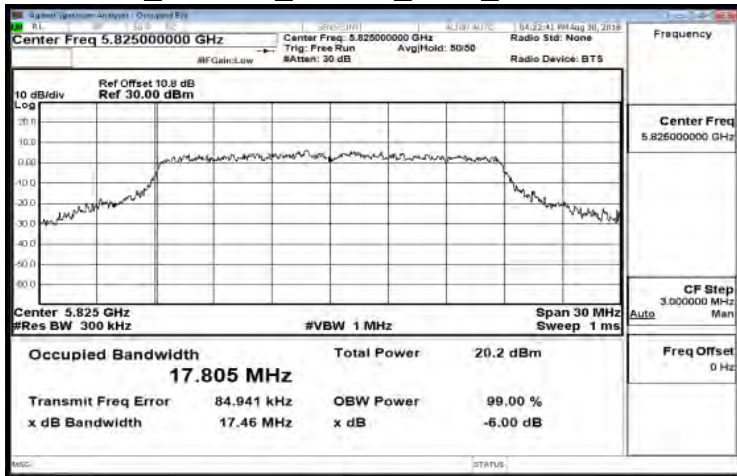
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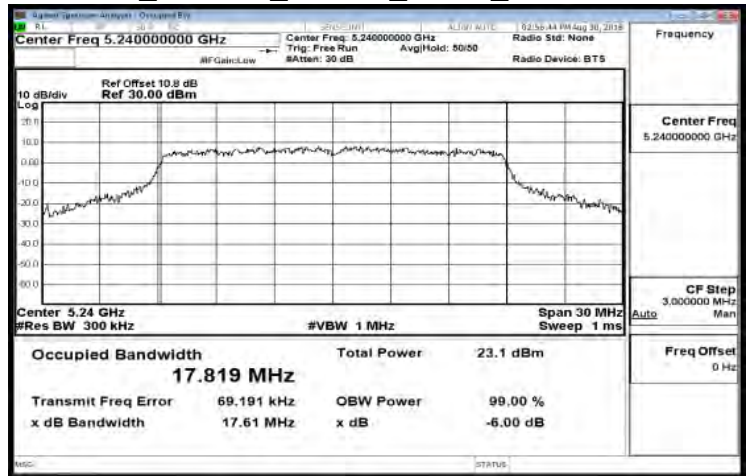
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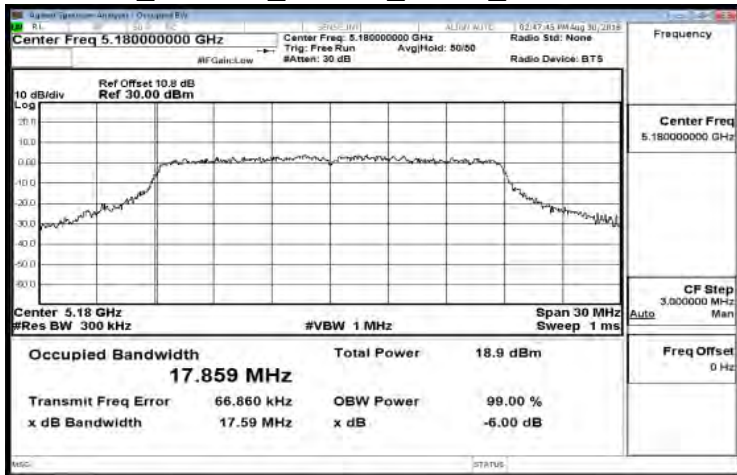
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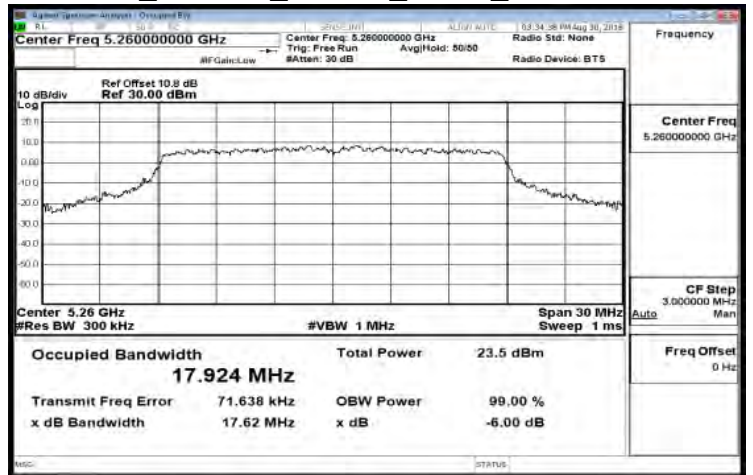
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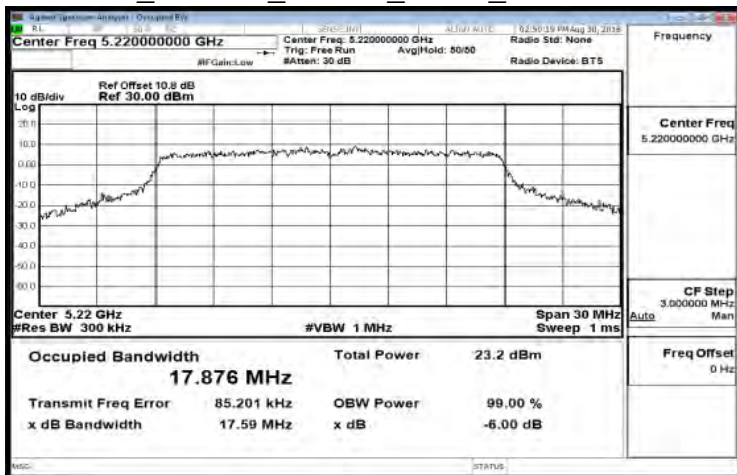
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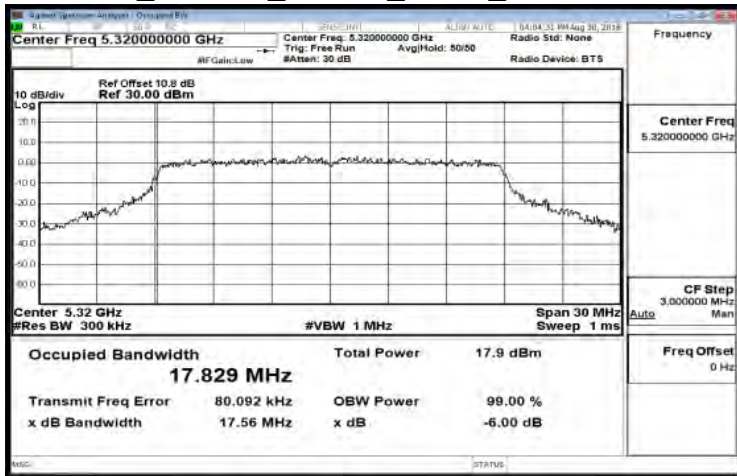


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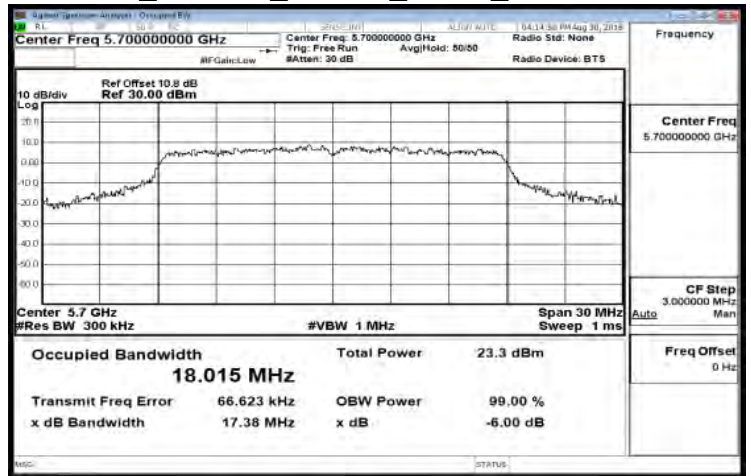
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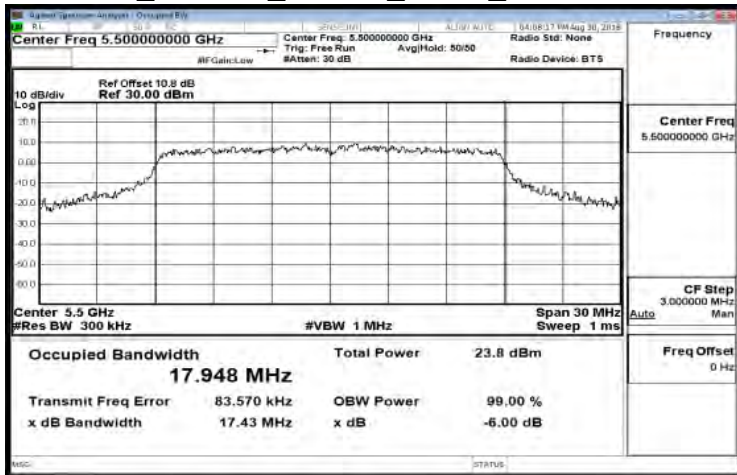
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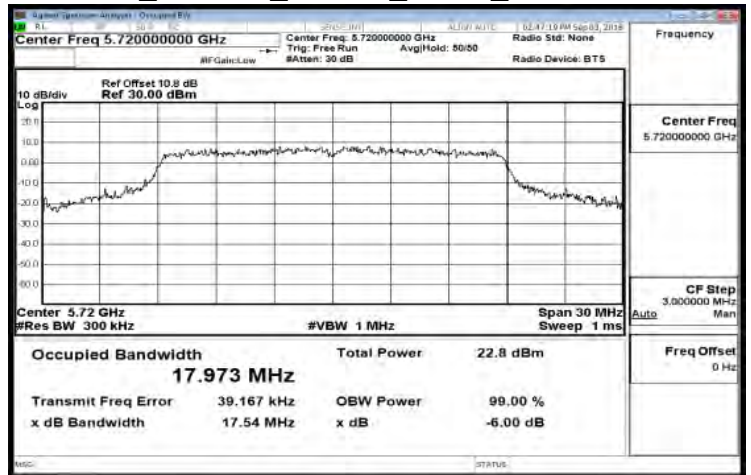
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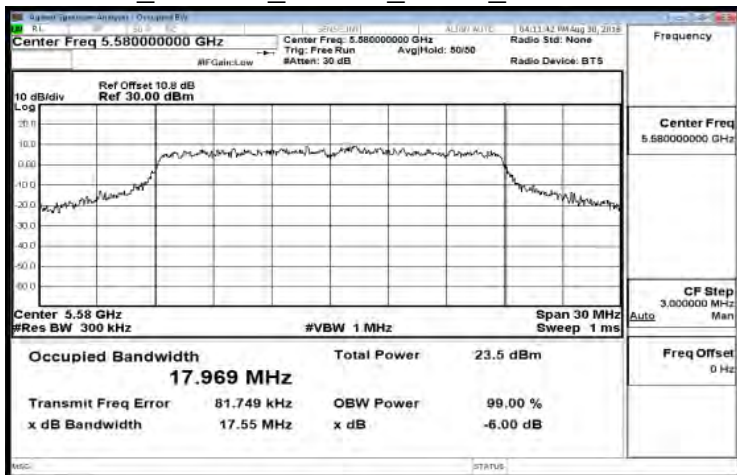
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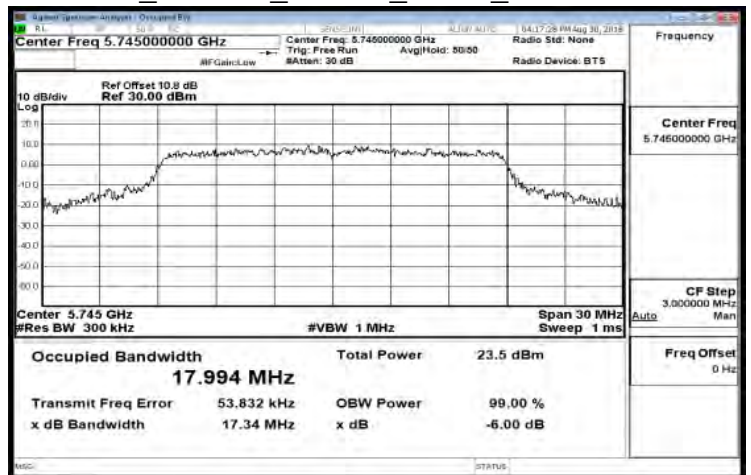
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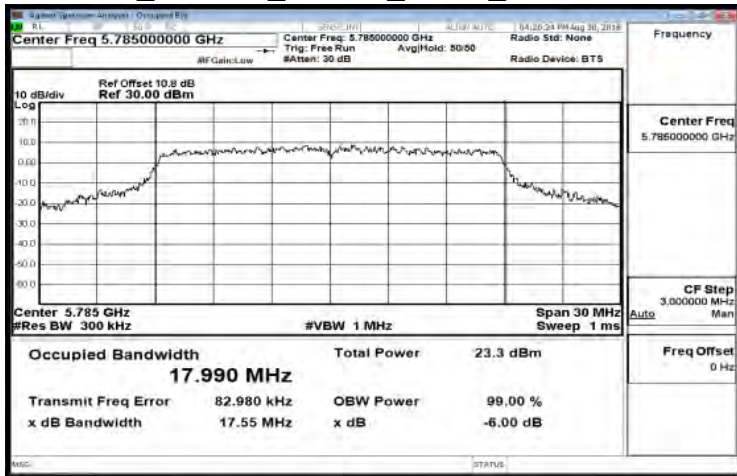


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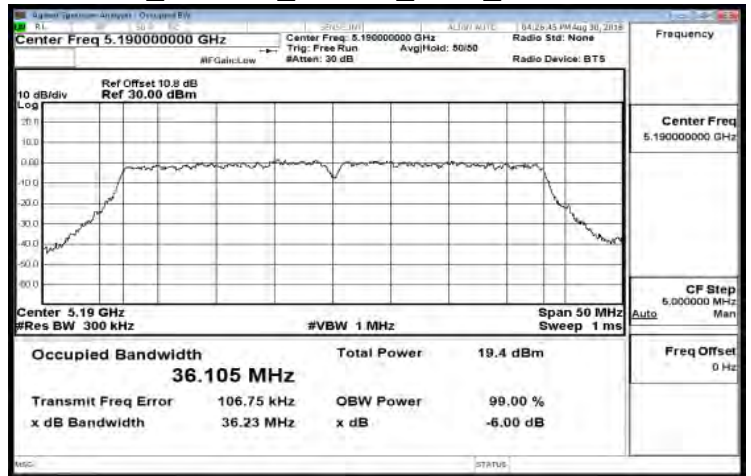
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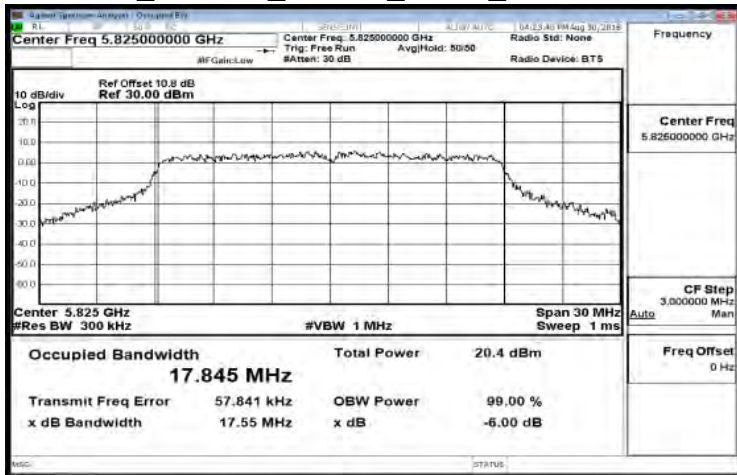
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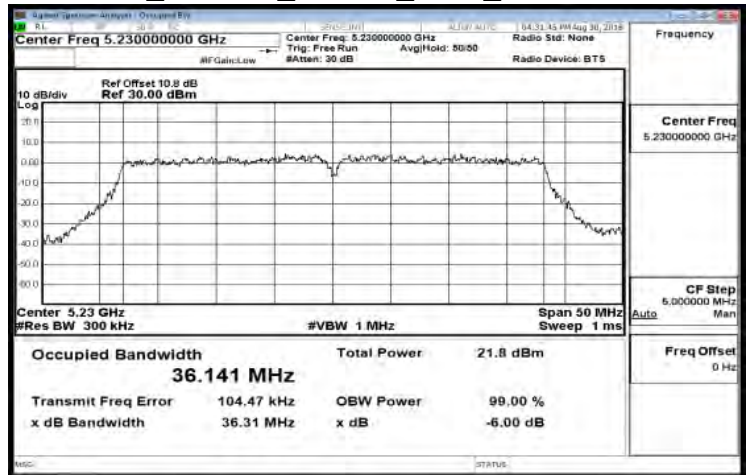
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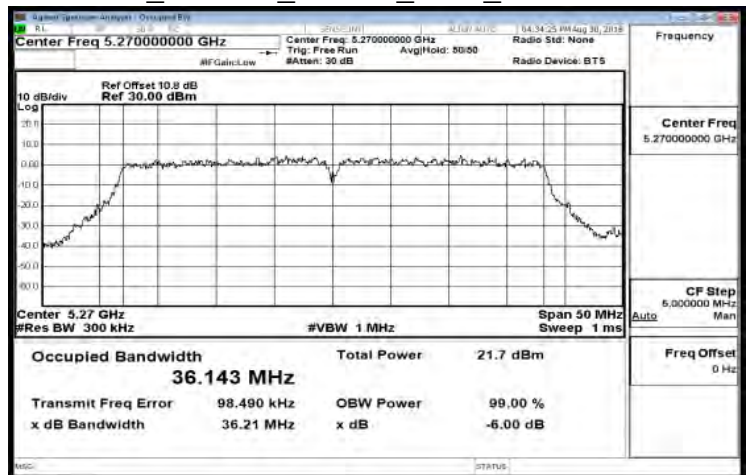
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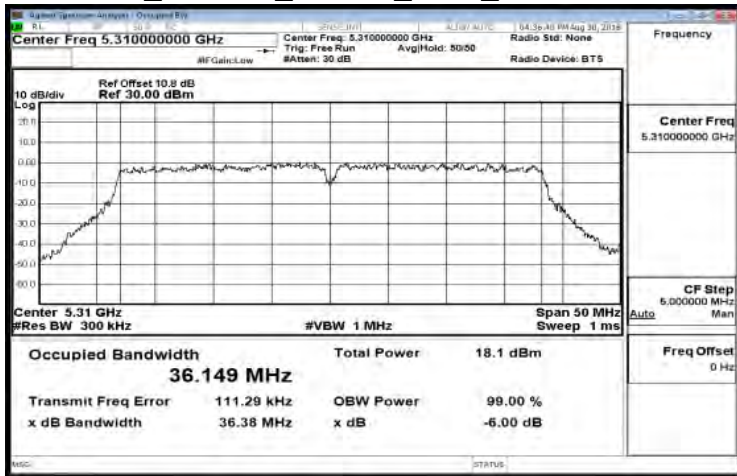
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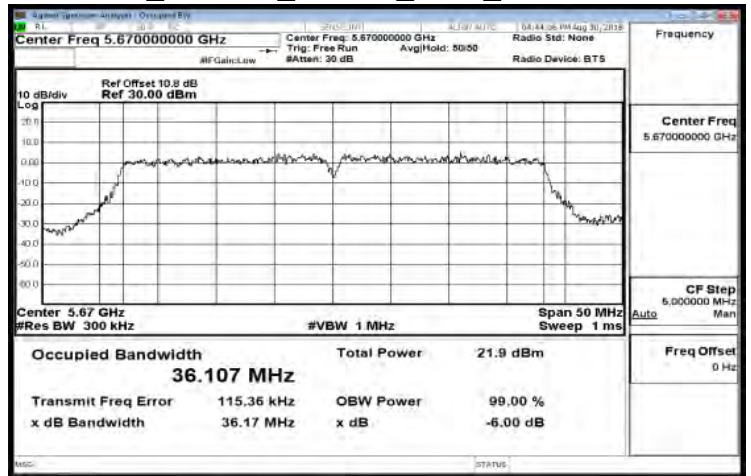
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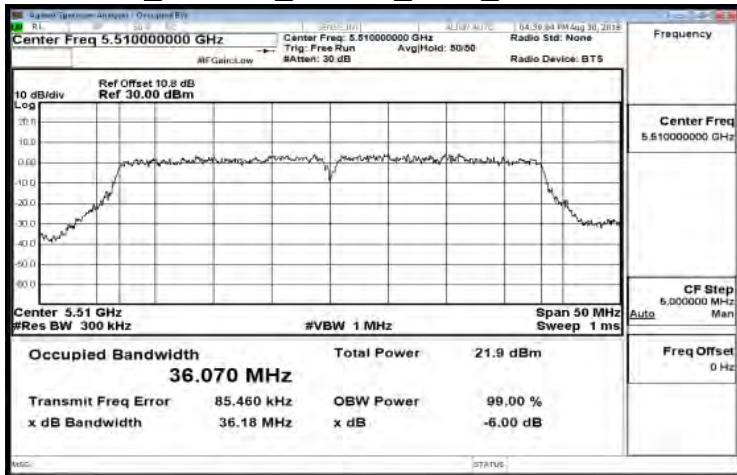
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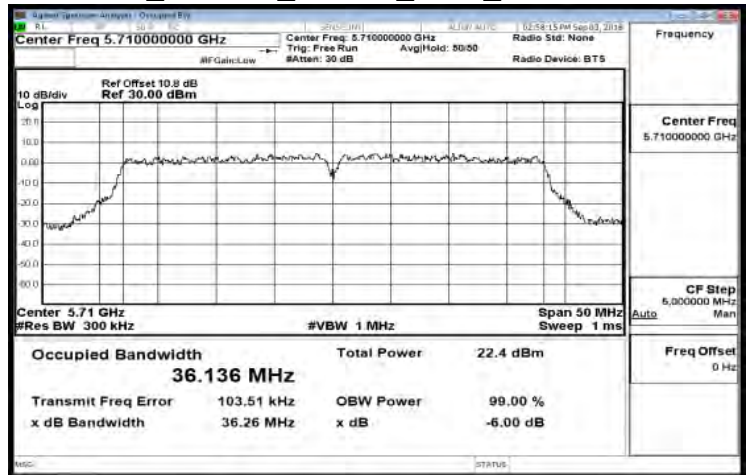
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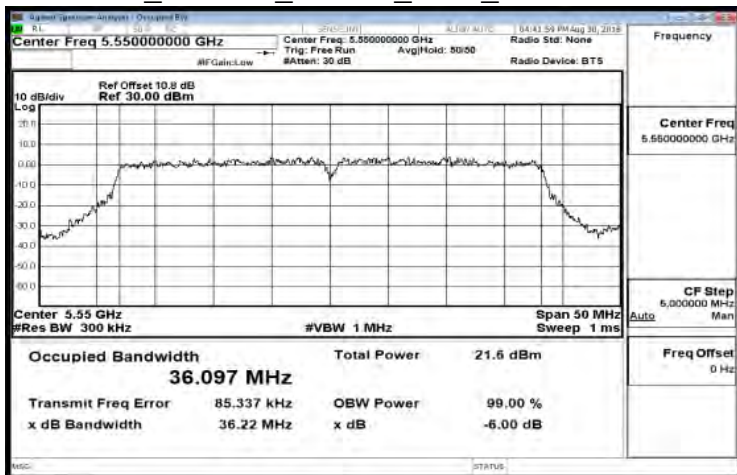
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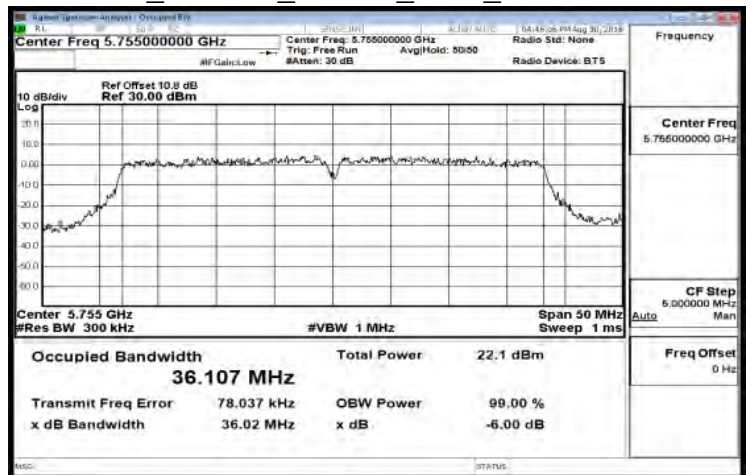
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IC_802.11n_40MHz_Main_5550MHz



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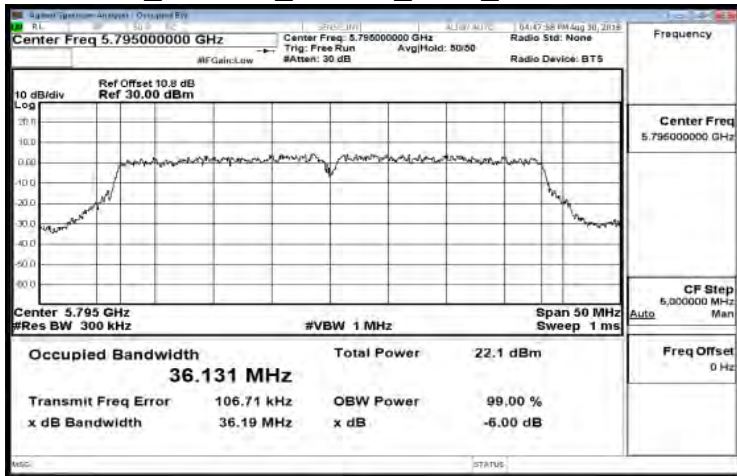


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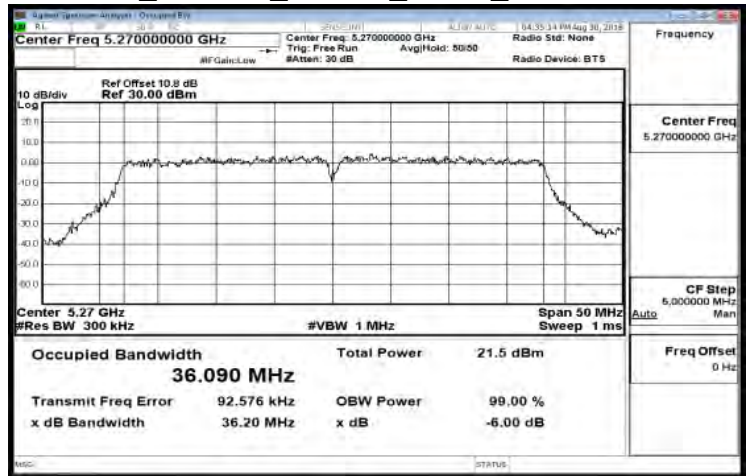
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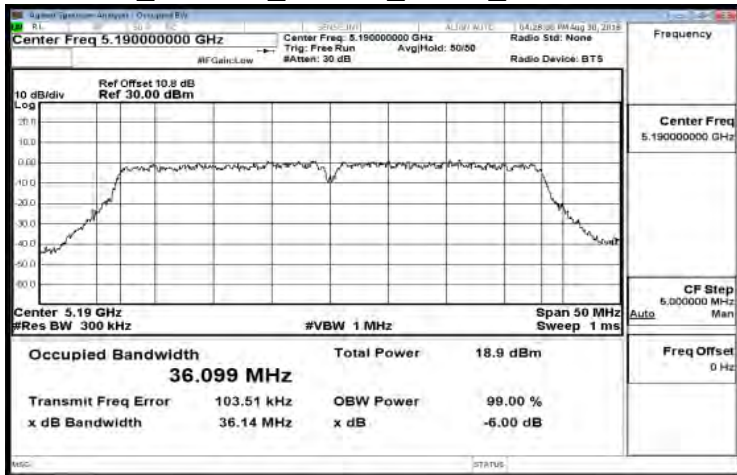
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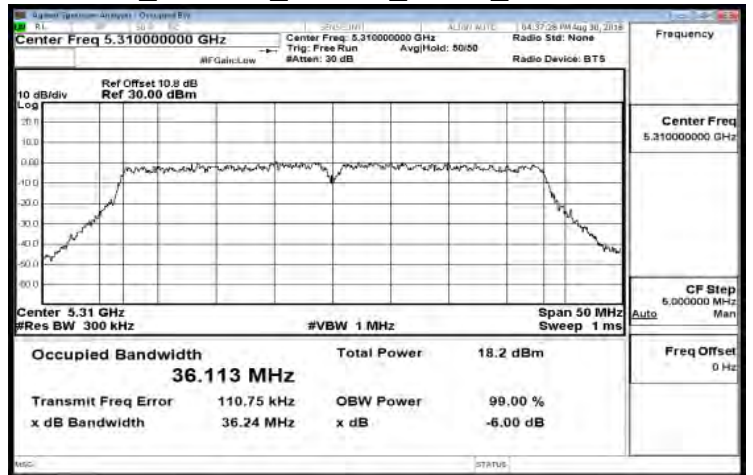
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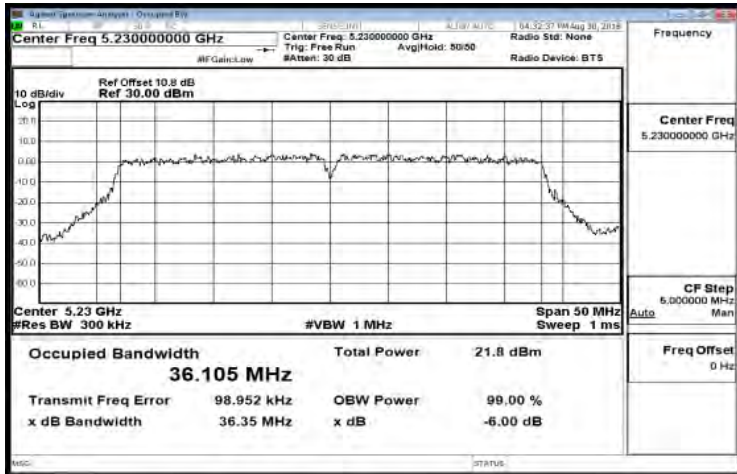
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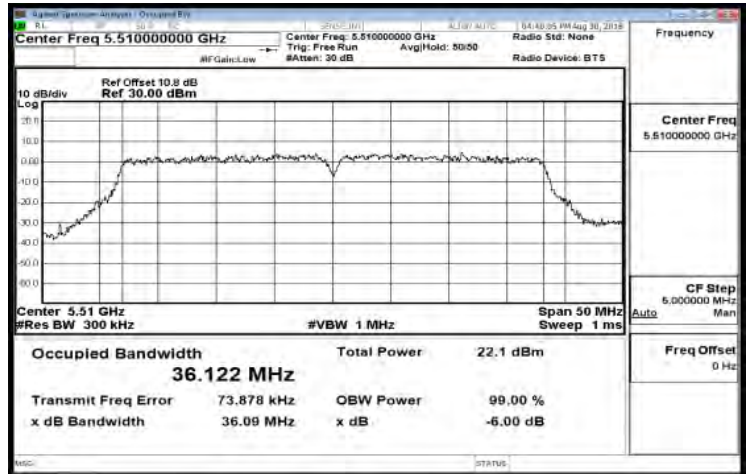
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IC_802.11n_40MHz_AUX1_5230MHz



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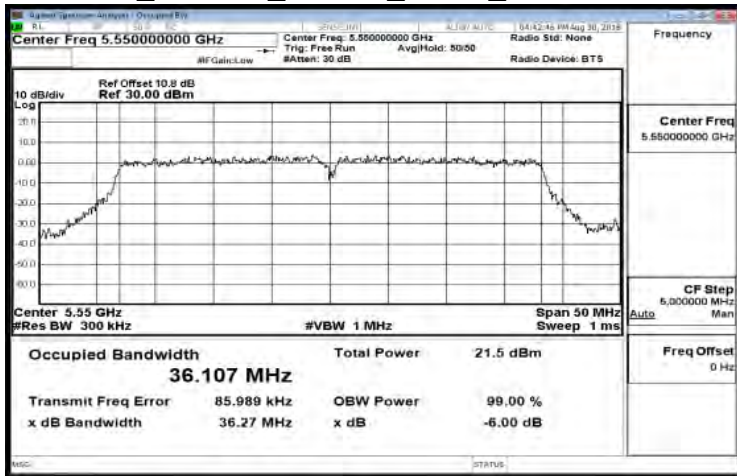


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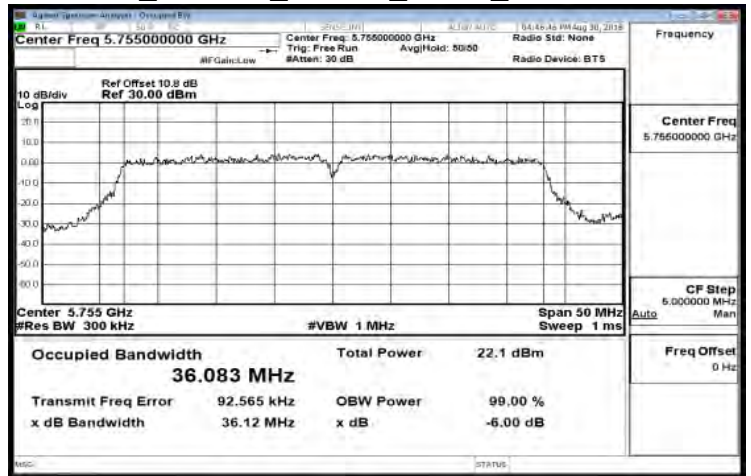
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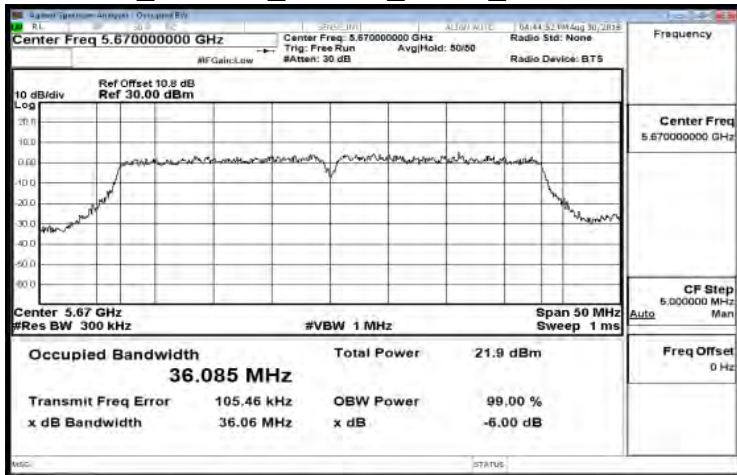
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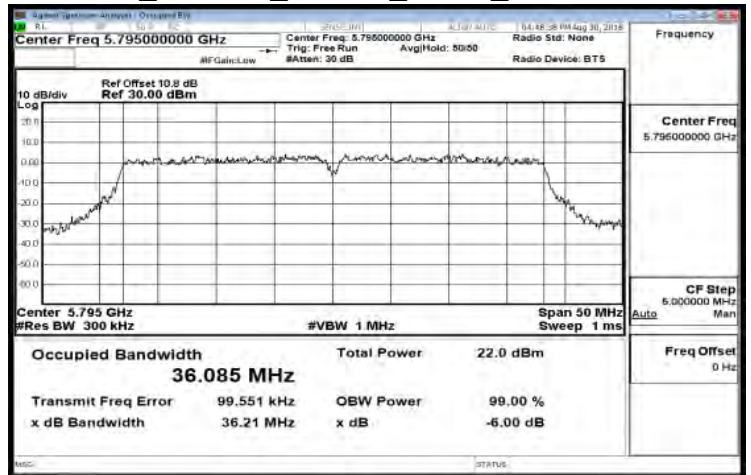
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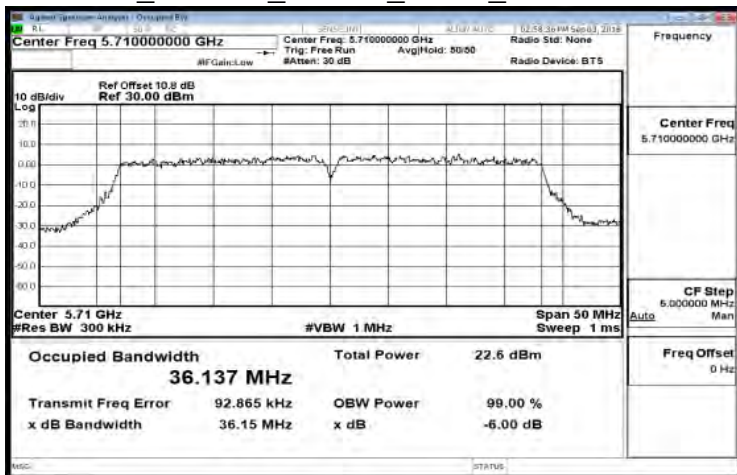
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IC_802.11n_40MHz_AUX1_5795MHz



IC_802.11n_40MHz_AUX1_5710MHz

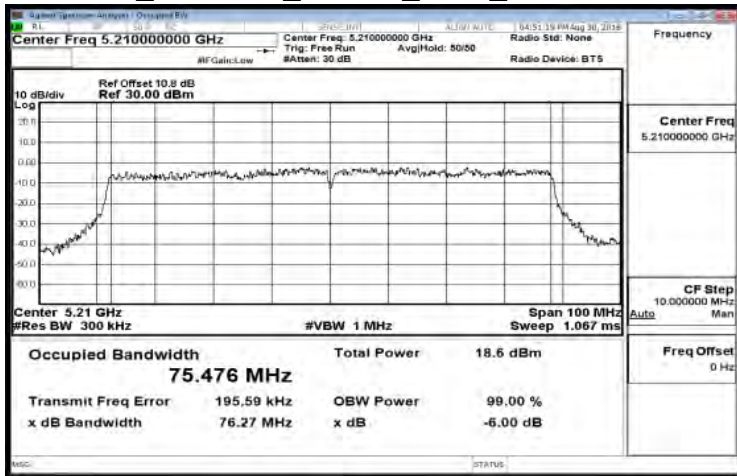


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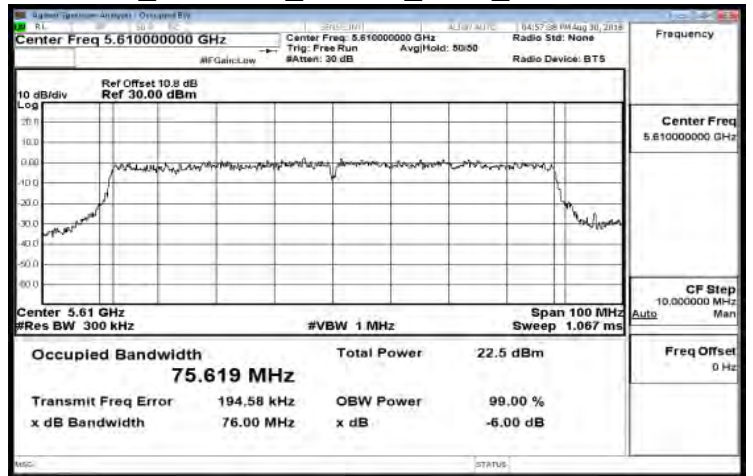
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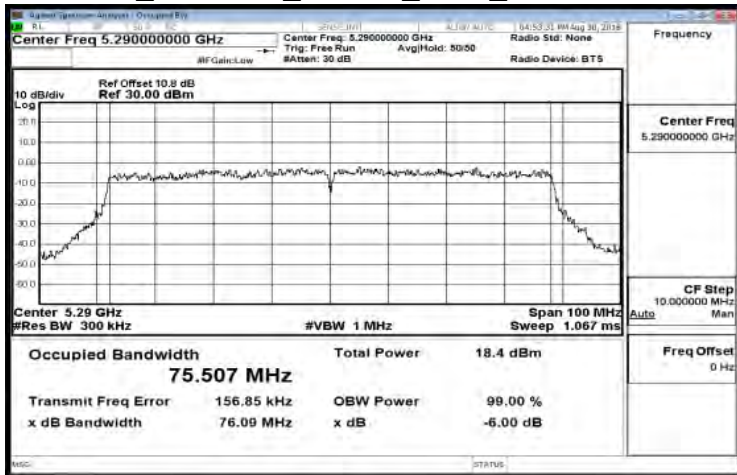
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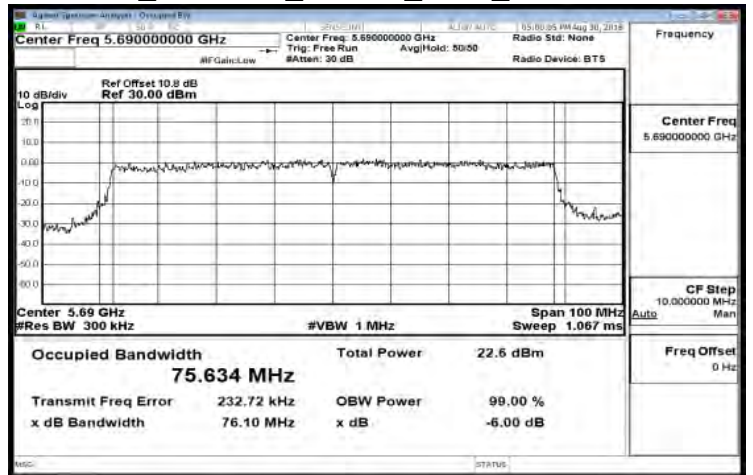
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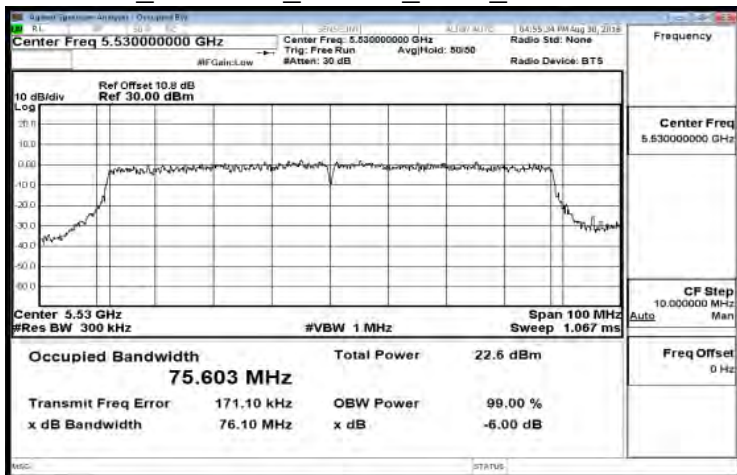
IC_802.11ac_80MHz_Main_5290MHz



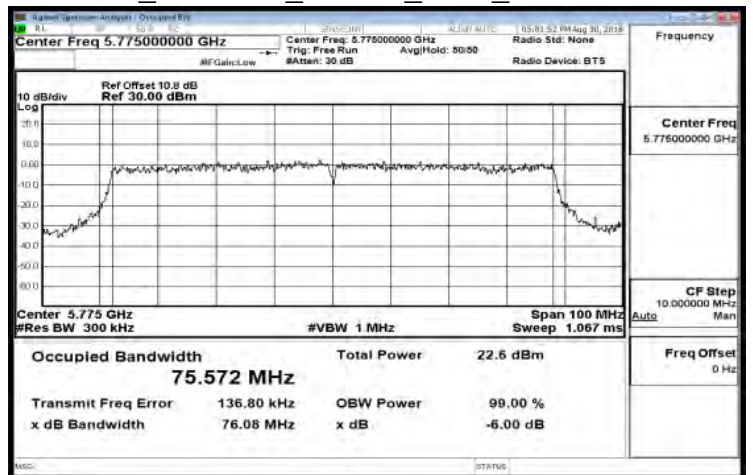
IC_802.11ac_80MHz_Main_5690MHz



IC_802.11ac_80MHz_Main_5530MHz



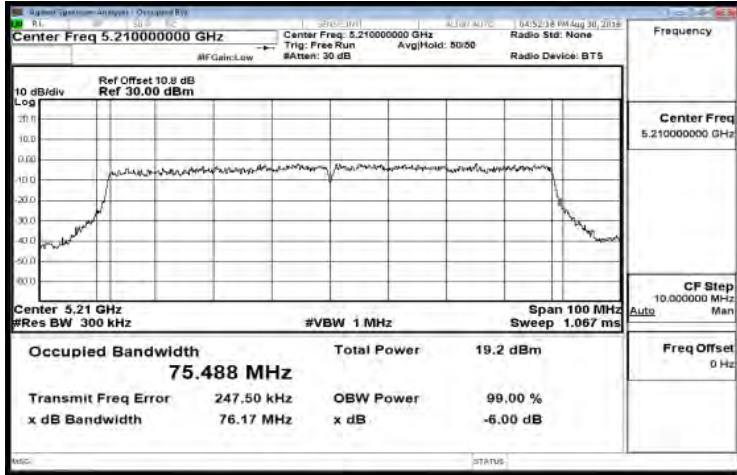
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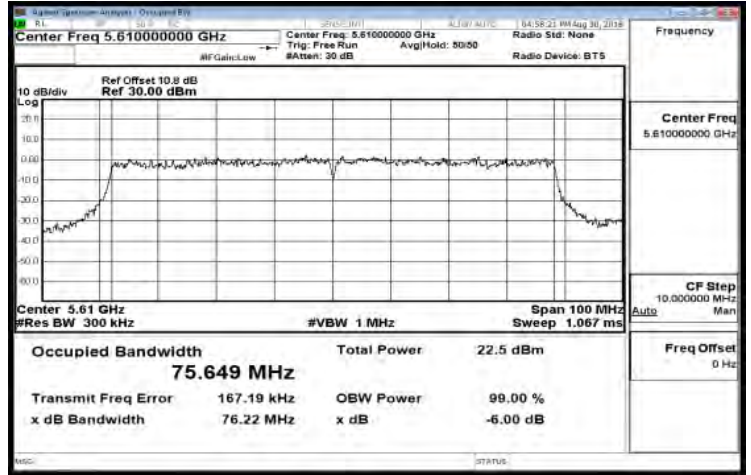
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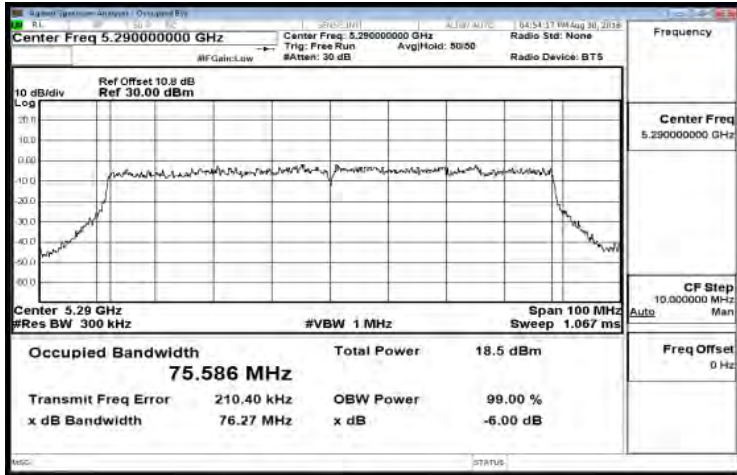
IC_802.11ac_80MHz_AUX1_5210MHz



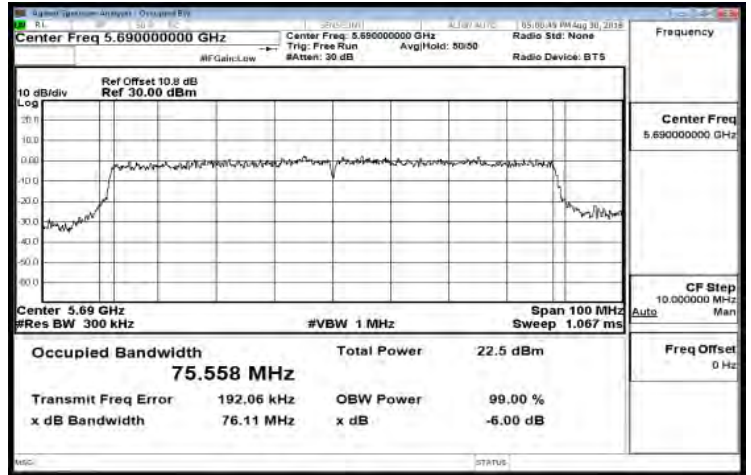
IC_802.11ac_80MHz_AUX1_5610MHz



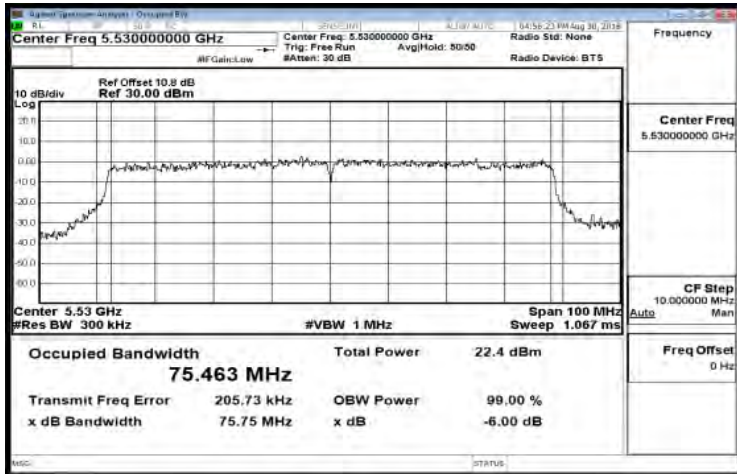
IC_802.11ac_80MHz_AUX1_5290MHz



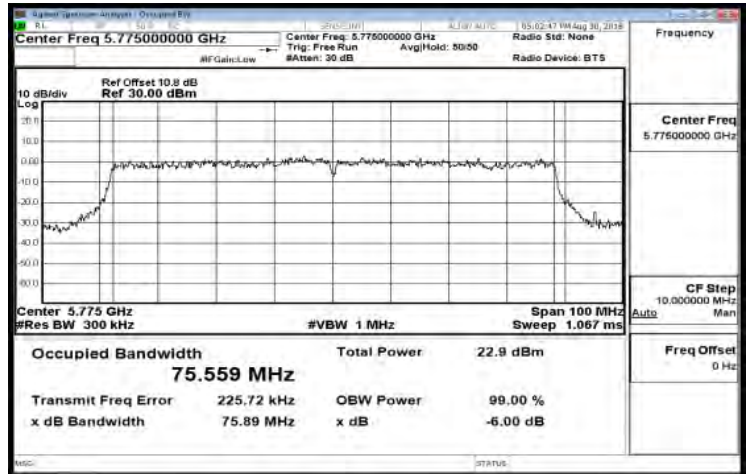
IC_802.11ac_80MHz_AUX1_5690MHz



IC_802.11ac_80MHz_AUX1_5530MHz



IC_802.11ac_80MHz_AUX1_5775MHz



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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 (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable clinet 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)

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log ₁₀ B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the Maximum Power Spectral Density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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Note:

As per FCC KDB 662911 D01

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

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

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

The antenna gain is greater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below:

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	8.67	21.31
UNII-2A	8.19	21.79
U-NII-2C	8.36	21.62
U-NII-3	8.08	27.92

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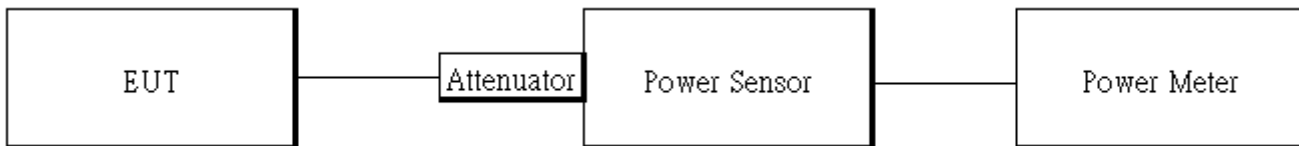
9.2 Measurement Procedure

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.

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/6/19
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/8/2
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/8/2
Power Sensor	Agilent	U2021X	MY53480015	2018/04/10	2019/4/9
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

9.4 Test Set-up



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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	14.31	26.949	23.98	PASS
44	5220	6	16.47	44.314	23.98	PASS
48	5240	6	16.44	44.009	23.98	PASS
52	5260	6	16.45	44.111	23.98 or $11+10\log(B) = 24.58$	PASS
60	5300	6	16.48	44.416	23.98 or $11+10\log(B) = 24.43$	PASS
64	5320	6	14.23	26.457	23.98 or $11+10\log(B) = 24.32$	PASS
100	5500	6	16.49	44.519	23.98 or $11+10\log(B) = 24.82$	PASS
116	5580	6	16.47	44.314	23.98 or $11+10\log(B) = 24.66$	PASS
140	5700	6	16.46	44.212	23.98 or $11+10\log(B) = 24.77$	PASS
149	5745	6	16.46	44.212	30	PASS
157	5785	6	16.48	44.416	30	PASS
165	5825	6	16.49	44.519	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	14.28	26.763	23.98	PASS
44	5220	6	16.33	42.908	23.98	PASS
48	5240	6	16.35	43.106	23.98	PASS
52	5260	6	16.35	43.106	23.98 or $11+10\log(B) = 24.66$	PASS
60	5300	6	16.48	44.416	23.98 or $11+10\log(B) = 24.70$	PASS
64	5320	6	14.21	26.336	23.98 or $11+10\log(B) = 24.65$	PASS
100	5500	6	16.42	43.807	23.98 or $11+10\log(B) = 24.41$	PASS
116	5580	6	16.46	44.212	23.98 or $11+10\log(B) = 24.83$	PASS
140	5700	6	16.44	44.009	23.98 or $11+10\log(B) = 24.85$	PASS
149	5745	6	16.44	44.009	30	PASS
157	5785	6	16.47	44.314	30	PASS
165	5825	6	16.43	43.908	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	10.40	10.960	23.98	PASS
44	5220	MCS0	10.40	10.960	23.98	PASS
48	5240	MCS0	10.38	10.909	23.98	PASS
52	5260	MCS0	17.45	55.565	23.98 or $11+10\log(B) = 24.80$	PASS
60	5300	MCS0	17.43	55.309	23.98 or $11+10\log(B) = 24.84$	PASS
64	5320	MCS0	11.13	12.966	23.98 or $11+10\log(B) = 24.39$	PASS
100	5500	MCS0	17.45	55.565	23.98 or $11+10\log(B) = 25.02$	PASS
116	5580	MCS0	17.43	55.309	23.98 or $11+10\log(B) = 25.54$	PASS
140	5700	MCS0	17.44	55.437	23.98 or $11+10\log(B) = 25.38$	PASS
144	5720(U-NII 2C)	MCS0	13.28	21.269	23.98 or $11+10\log(B) = 23.88$	PASS
144	5720 (U-NII 3)	MCS0	4.12	2.583	30	PASS
149	5745	MCS0	17.41	55.055	30	PASS
157	5785	MCS0	17.46	55.693	30	PASS
165	5825	MCS0	17.44	55.437	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10.47	11.138	23.98	PASS
44	5220	MCS0	10.85	12.156	23.98	PASS
48	5240	MCS0	10.84	12.128	23.98	PASS
52	5260	MCS0	17.34	54.175	23.98 or $11+10\log(B) = 25.12$	PASS
60	5300	MCS0	17.41	55.055	23.98 or $11+10\log(B) = 25.00$	PASS
64	5320	MCS0	11.34	13.608	23.98 or $11+10\log(B) = 24.61$	PASS
100	5500	MCS0	17.37	54.550	23.98 or $11+10\log(B) = 24.91$	PASS
116	5580	MCS0	17.43	55.309	23.98 or $11+10\log(B) = 25.12$	PASS
140	5700	MCS0	17.43	55.309	23.98 or $11+10\log(B) = 25.24$	PASS
144	5720(U-NII 2C)	MCS0	13.25	21.157	23.98 or $11+10\log(B) = 24.13$	PASS
144	5720 (U-NII 3)	MCS0	4.11	2.578	30	PASS
149	5745	MCS0	17.29	53.555	30	PASS
157	5785	MCS0	17.34	54.175	30	PASS
165	5825	MCS0	17.39	54.802	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	10.41	10.51	13.82	22.236	21.31	PASS
44	5220	MCS8	10.27	10.52	13.76	21.913	21.31	PASS
48	5240	MCS8	10.22	10.51	13.73	21.766	21.31	PASS
52	5260	MCS8	16.69	17.15	20.28	98.546	21.79 or 11+10log(B) = 24.80	PASS
60	5300	MCS8	16.92	17.04	20.34	99.786	21.79 or 11+10log(B) = 24.84	PASS
64	5320	MCS8	10.84	11.08	14.32	24.957	21.79 or 11+10log(B) = 24.39	PASS
100	5500	MCS8	16.98	17.10	20.40	101.175	21.62 or 11+10log(B) = 24.91	PASS
116	5580	MCS8	16.94	17.13	20.39	101.073	21.62 or 11+10log(B) = 25.12	PASS
140	5700	MCS8	17.02	17.15	20.44	102.230	21.62 or 11+10log(B) = 25.24	PASS
144	5720(U-NII 2C)	MCS8	13.04	13.10	15.63	40.546	21.62 or 11+10log(B) = 23.88	PASS
144	5720 (U-NII 3)	MCS8	4.05	4.06	4.85	5.089	27.92	PASS
149	5745	MCS8	16.98	17.02	20.36	100.239	27.92	PASS
157	5785	MCS8	17.05	17.21	20.49	103.301	27.92	PASS
165	5825	MCS8	17.08	17.16	20.48	103.050	27.92	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.71	11.771	23.98	PASS
46	5230	MCS0	10.85	12.157	23.98	PASS
54	5270	MCS0	16.46	44.240	23.98 or 11+10log(B) = 27.07	PASS
62	5310	MCS0	11.49	14.087	23.98 or 11+10log(B) = 27.06	PASS
102	5510	MCS0	16.45	44.138	23.98 or 11+10log(B) = 27.13	PASS
110	5550	MCS0	16.40	43.633	23.98 or 11+10log(B) = 27.14	PASS
134	5670	MCS0	16.43	43.936	23.98 or 11+10log(B) = 27.13	PASS
142	5710(U-NII 2C)	MCS0	14.43	27.706	23.98 or 11+10log(B) = 26.56	PASS
142	5710 (U-NII 3)	MCS0	1.98	1.579	30	PASS
151	5755	MCS0	16.42	43.835	30	PASS
159	5795	MCS0	16.40	43.633	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	10.84	12.129	23.98		PASS
46	5230	MCS0	10.90	12.298	23.98		PASS
54	5270	MCS0	16.42	43.835	23.98	or $11+10\log(B) = 27.10$	PASS
62	5310	MCS0	11.62	14.515	23.98	or $11+10\log(B) = 27.10$	PASS
102	5510	MCS0	16.41	43.734	23.98	or $11+10\log(B) = 27.13$	PASS
110	5550	MCS0	16.36	43.233	23.98	or $11+10\log(B) = 27.13$	PASS
134	5670	MCS0	16.41	43.734	23.98	or $11+10\log(B) = 27.13$	PASS
142	5710(U-NII 2C)	MCS0	14.36	27.316	23.98	or $11+10\log(B) = 26.56$	PASS
142	5710 (U-NII 3)	MCS0	1.97	1.575	23.98		PASS
151	5755	MCS0	16.38	43.433	23.98		PASS
159	5795	MCS0	16.35	43.134	30		PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	10.12	10.25	13.85	20.873	21.31	PASS
46	5230	MCS8	10.25	10.34	13.96	21.407	21.31	PASS
54	5270	MCS8	15.70	15.81	19.42	75.260	21.79 or $11+10\log(B) = 27.07$	PASS
62	5310	MCS8	10.85	11.01	14.60	24.780	21.79 or $11+10\log(B) = 27.06$	PASS
102	5510	MCS8	15.58	15.87	19.40	74.778	21.62 or $11+10\log(B) = 27.13$	PASS
110	5550	MCS8	15.42	15.78	19.27	72.678	21.62 or $11+10\log(B) = 27.13$	PASS
134	5670	MCS8	15.43	15.75	19.26	72.498	21.62 or $11+10\log(B) = 27.13$	PASS
142	5710(U-NII 2C)	MCS8	13.84	13.95	17.12	49.046	21.62 or $11+10\log(B) = 26.56$	PASS
142	5710 (U-NII 3)	MCS8	1.90	1.92	2.35	3.104	27.92	PASS
151	5755	MCS8	15.72	15.91	19.48	76.319	27.92	PASS
159	5795	MCS8	15.77	15.86	19.48	76.305	27.92	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11.35	13.638	23.98	PASS
58	5290	MCS0	11.13	12.964	23.98 or 11+10log(B) = 30.17	PASS
106	5530	MCS0	15.47	35.216	23.98 or 11+10log(B) = 30.18	PASS
122	5610	MCS0	15.32	34.021	23.98 or 11+10log(B) = 30.24	PASS
138	5690(U-NII 2C)	MCS0	14.46	27.938	23.98 or 11+10log(B) = 30.32	PASS
138	5690 (U-NII 3)	MCS0	0.94	1.240	30	PASS
155	5775	MCS0	15.48	35.297	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11.24	13.297	23.98	PASS
58	5290	MCS0	11.08	12.816	23.98 or 11+10log(B) = 30.18	PASS
106	5530	MCS0	15.44	34.974	23.98 or 11+10log(B) = 30.21	PASS
122	5610	MCS0	15.13	32.564	23.98 or 11+10log(B) = 30.22	PASS
138	5690(U-NII 2C)	MCS0	14.51	28.241	23.98 or 11+10log(B) = 29.99	PASS
138	5690 (U-NII 3)	MCS0	0.94	1.241	23.98	PASS
155	5775	MCS0	15.44	34.974	23.98	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	10.65	10.57	14.34	23.017	21.31	PASS
58	5290	MCS0	10.48	10.41	14.17	22.159	21.79 or 11+10log(B) = 30.17	PASS
106	5530	MCS0	14.86	14.57	18.45	59.261	21.62 or 11+10log(B) = 30.18	PASS
122	5610	MCS0	14.63	14.41	18.25	56.646	21.62 or 11+10log(B) = 30.22	PASS
138	5690(U-NII 2C)	MCS0	13.82	13.43	17.13	46.113	21.62 or 11+10log(B) = 29.99	PASS
138	5690 (U-NII 3)	MCS0	0.89	0.87	1.11	2.450	27.92	PASS
155	5775	MCS0	14.77	14.57	18.40	58.633	27.92	PASS

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Conducted output power (IC)
802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.45	44.111	23.98 or $11+10\log(B) = 23.23$	PASS
60	5300	16.48	44.416	23.98 or $11+10\log(B) = 23.23$	PASS
64	5320	14.23	26.457	23.98 or $11+10\log(B) = 23.22$	PASS
100	5500	16.49	44.519	23.98 or $11+10\log(B) = 23.22$	PASS
116	5580	16.47	44.314	23.98 or $11+10\log(B) = 23.22$	PASS
140	5700	16.46	44.212	23.98 or $11+10\log(B) = 23.24$	PASS
149	5745	16.46	44.212	30	PASS
157	5785	16.48	44.416	30	PASS
165	5825	16.49	44.519	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.35	43.106	23.98 or $11+10\log(B) = 23.21$	PASS
60	5300	16.48	44.416	23.98 or $11+10\log(B) = 23.22$	PASS
64	5320	14.21	26.336	23.98 or $11+10\log(B) = 23.21$	PASS
100	5500	16.42	43.807	23.98 or $11+10\log(B) = 23.22$	PASS
116	5580	16.46	44.212	23.98 or $11+10\log(B) = 23.22$	PASS
140	5700	16.44	44.009	23.98 or $11+10\log(B) = 23.23$	PASS
149	5745	16.44	44.009	30	PASS
157	5785	16.47	44.314	30	PASS
165	5825	16.43	43.908	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.45	55.565	23.98 or $11+10\log(B) = 23.54$	PASS
60	5300	17.43	55.309	23.98 or $11+10\log(B) = 23.51$	PASS
64	5320	11.13	12.966	23.98 or $11+10\log(B) = 23.50$	PASS
100	5500	17.45	55.565	23.98 or $11+10\log(B) = 23.53$	PASS
116	5580	17.43	55.309	23.98 or $11+10\log(B) = 23.54$	PASS
140	5700	17.44	55.437	23.98 or $11+10\log(B) = 23.55$	PASS
144	5720(U-NII 2C)	13.28	21.269	23.98 or $11+11\log(B) = 22.38$	PASS
144	5720 (U-NII 3)	4.12	2.583	30	PASS
149	5745	17.41	55.055	30	PASS
157	5785	17.46	55.693	30	PASS
165	5825	17.44	55.437	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.34	54.175	23.98 or 11+10log(B) = 23.53	PASS
60	5300	17.41	55.055	23.98 or 11+10log(B) = 23.52	PASS
64	5320	11.34	13.608	23.98 or 11+10log(B) = 23.51	PASS
100	5500	17.37	54.550	23.98 or 11+10log(B) = 23.54	PASS
116	5580	17.43	55.309	23.98 or 11+10log(B) = 23.55	PASS
140	5700	17.43	55.309	23.98 or 11+10log(B) = 23.56	PASS
144	5720(U-NII 2C)	13.25	21.157	23.98 or 11+10log(B) = 22.37	PASS
144	5720 (U-NII 3)	4.11	2.578	30	PASS
149	5745	17.29	53.555	30	PASS
157	5785	17.34	54.175	30	PASS
165	5825	17.39	54.802	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	16.7	17.2	20.28	106.767	21.79 or 11+10log(B) = 23.53	PASS
60	5300	16.9	17	20.34	108.111	21.79 or 11+10log(B) = 23.51	PASS
64	5320	10.8	11.1	14.32	27.039	21.79 or 11+10log(B) = 23.50	PASS
100	5500	17	17.1	20.40	109.615	21.62 or 11+10log(B) = 23.53	PASS
116	5580	16.9	17.1	20.39	109.505	21.62 or 11+10log(B) = 23.54	PASS
140	5700	17	17.2	20.44	110.758	21.62 or 11+10log(B) = 23.55	PASS
144	5720(U-NII 2C)	13	13.1	15.63	36.577	21.62 or 11+10log(B) = 22.37	PASS
144	5720 (U-NII 3)	4.05	4.06	4.85	3.056	27.91964824	PASS
149	5745	17	17	20.36	108.601	27.91964824	PASS
157	5785	17.1	17.2	20.49	111.919	27.91964824	PASS
165	5825	17.1	17.2	20.48	111.647	27.91964824	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.46	44.240	23.98 or 11+10log(B) = 26.58	PASS
62	5310	11.49	14.087	23.98 or 11+10log(B) = 26.58	PASS
102	5510	16.45	44.138	23.98 or 11+10log(B) = 26.57	PASS
110	5550	16.40	43.633	23.98 or 11+10log(B) = 26.57	PASS
134	5670	16.43	43.936	23.98 or 11+10log(B) = 26.58	PASS
142	5710 (U-NII 3)	14.43	27.706	23.98 or 11+11log(B) = 26.02	PASS
142	5710 (U-NII 3)	1.98	1.579	30	PASS
151	5755	16.42	43.835	30	PASS
159	5795	16.40	43.633	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.42	43.835	23.98 or 11+10log(B) = 26.57	PASS
62	5310	11.62	14.515	23.98 or 11+10log(B) = 26.58	PASS
102	5510	16.41	43.734	23.98 or 11+10log(B) = 26.58	PASS
110	5550	16.36	43.233	23.98 or 11+10log(B) = 26.58	PASS
134	5670	16.41	43.734	23.98 or 11+10log(B) = 26.57	PASS
142	5710 (U-NII 3)	14.36	27.316	23.98 or 11+10log(B) = 26.02	PASS
142	5710 (U-NII 3)	1.97	1.575	30	PASS
151	5755	16.38	43.433	30	PASS
159	5795	16.35	43.134	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	15.7	15.8	19.42	87.575	21.79 or 11+10log(B) = 26.57	PASS
62	5310	10.9	11	14.60	28.835	21.79 or 11+10log(B) = 26.58	PASS
102	5510	15.6	15.9	19.40	87.014	21.95 or 11+10log(B) = 26.57	PASS
110	5550	15.4	15.8	19.27	84.571	21.95 or 11+10log(B) = 26.57	PASS
134	5670	15.4	15.8	19.26	84.361	21.95 or 11+10log(B) = 26.57	PASS
142	5710 (U-NII 3)	13.8	14	17.12	51.535	21.95 or 11+10log(B) = 26.02	PASS
142	5710 (U-NII 3)	1.9	1.92	2.35	1.719	27.94949281	PASS
151	5755	15.7	15.9	19.48	88.808	27.94949281	PASS
159	5795	15.8	15.9	19.48	88.791	27.94949281	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	11.13	12.964	23.98 or 11+10log(B) = 29.78	PASS
106	5530	15.47	35.216	23.98 or 11+10log(B) = 29.79	PASS
122	5610	15.32	34.021	23.98 or 11+11log(B) = 29.79	PASS
138	5690 (U-NII 2C)	14.46	27.938	23.98 or 11+12log(B) = 29.51	PASS
138	5690 (U-NII 3)	0.94	1.240	30	PASS
155	5775	15.48	35.297	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	11.08	12.816	23.98 or 11+10log(B) = 29.78	PASS
106	5530	15.44	34.974	23.98 or 11+10log(B) = 29.78	PASS
122	5610	15.13	32.564	23.98 or 11+10log(B) = 29.79	PASS
138	5690 (U-NII 2C)	14.51	28.241	23.98 or 11+10log(B) = 29.51	PASS
138	5690 (U-NII 3)	0.94	1.241	30	PASS
155	5775	15.44	34.974	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	10.65	10.57	14.34	23.017	21.31	PASS
58	5290	MCS0	10.48	10.41	14.17	22.159	21.79 or 11+10log(B) = 30.17	PASS
106	5530	MCS0	14.86	14.57	18.45	59.261	21.62 or 11+10log(B) = 30.18	PASS
122	5610	MCS0	14.63	14.41	18.25	56.646	21.62 or 11+10log(B) = 30.22	PASS
138	5690(U-NII 2C)	MCS0	13.82	13.43	17.13	46.113	21.62 or 11+10log(B) = 29.99	PASS
138	5690 (U-NII 3)	MCS0	0.89	0.87	1.11	2.450	27.92	PASS
155	5775	MCS0	14.77	14.57	18.40	58.633	27.92	PASS

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EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.31	5.430	19.74	94.090	23.01 or 10+10log(B)= 22.23	PASS
44	5220	16.47	5.430	21.90	154.718	23.01 or 10+10log(B)= 22.22	PASS
48	5240	16.44	5.430	21.87	153.653	23.01 or 10+10log(B)= 22.23	PASS
52	5260	16.45	5.610	22.06	160.525	30 or 17+10log(B)= 29.23	PASS
60	5300	16.48	5.610	22.09	161.637	30 or 17+10log(B)= 29.23	PASS
64	5320	14.23	5.610	19.84	96.281	30 or 17+10log(B)= 29.22	PASS
100	5500	16.49	5.860	22.35	171.610	30 or 17+10log(B)= 29.22	PASS
116	5580	16.47	5.860	22.33	170.821	30 or 17+10log(B)= 29.22	PASS
140	5700	16.46	5.860	22.32	170.428	30 or 17+10log(B)= 29.24	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.82	8.67	22.49	177.288	23.01 or 10+10log(B)= 22.50	PASS
44	5220	13.76	8.67	22.42	174.715	23.01 or 10+10log(B)= 22.51	PASS
48	5240	13.73	8.67	22.39	173.537	23.01 or 10+10log(B)= 22.51	PASS
52	5260	20.28	8.19	28.48	704.014	30 or 17+10log(B)= 29.53	PASS
60	5300	20.34	8.19	28.53	712.876	30 or 17+10log(B)= 29.51	PASS
64	5320	14.32	8.19	22.51	178.295	30 or 17+10log(B)= 29.50	PASS
100	5500	20.40	8.36	28.76	750.785	30 or 17+10log(B)= 29.53	PASS
116	5580	20.39	8.36	28.75	750.029	30 or 17+10log(B)= 29.54	PASS
140	5700	20.44	8.36	28.80	758.618	30 or 17+10log(B)= 29.55	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.85	8.67	22.52	178.738	23.01 or 10+10log(B)= 25.57	PASS
46	5230	13.96	8.67	22.63	183.312	23.01 or 10+10log(B)= 25.58	PASS
54	5270	19.42	8.19	27.62	577.466	30 or 17+10log(B)= 32.57	PASS
62	5310	14.60	8.19	22.79	190.136	30 or 17+10log(B)= 32.58	PASS
102	5510	19.40	8.36	27.75	595.985	30 or 17+10log(B)= 32.57	PASS
110	5550	19.27	8.36	27.63	579.250	30 or 17+10log(B)= 32.57	PASS
134	5670	19.26	8.36	27.62	577.814	30 or 17+10log(B)= 32.57	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	14.34	8.67	23.01	199.808	23.01 or $10+10\log(B)=28.78$	PASS
58	5290	14.17	8.19	22.36	172.358	30 or $17+10\log(B)=35.78$	PASS
106	5530	18.45	8.36	26.80	478.807	30 or $17+10\log(B)=35.78$	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit 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.

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Note:

As per FCC KDB 662911 D01

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

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

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

	Effective Legacy Gain (dBi)	Limit (dBm / MHz)
UNII-1	8.67	8.33
UNII-2A	8.19	8.81
U-NII-2C	8.36	8.64
U-NII-3	8.08	27.92

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)
- Use 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.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

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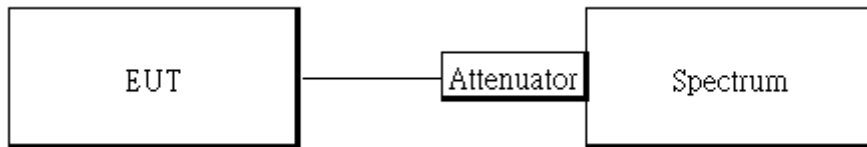
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10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/6/19
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	2.58	10.80	0.19	2.77	11	-8.23
5220	2.64	10.80	0.19	2.83	11	-8.17
5240	3.13	10.80	0.19	3.32	11	-7.68
5260	3.71	10.80	0.19	3.90	11	-7.10
5300	3.48	10.80	0.19	3.67	11	-7.33
5320	1.75	10.80	0.19	1.94	11	-9.06
5500	3.38	10.80	0.19	3.57	11	-7.43
5580	2.71	10.80	0.19	2.90	11	-8.10
5700	1.91	10.80	0.19	2.10	11	-8.90
5745	10.77	10.80	0.19	10.77	30	-19.23
5785	10.17	10.80	0.19	10.17	30	-19.83
5825	9.21	10.80	0.19	9.21	30	-20.79

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POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	-0.17	10.80	0.35	0.18	8.33	-8.15
5220	0.06	10.80	0.35	0.41	8.33	-7.92
5240	0.03	10.80	0.35	0.38	8.33	-7.95
5260	3.81	10.80	0.35	4.16	8.81	-4.65
5300	4.56	10.80	0.35	4.91	8.81	-3.90
5320	2.44	10.80	0.35	2.79	8.81	-6.02
5500	5.50	10.80	0.35	5.85	8.64	-2.80
5580	6.68	10.80	0.35	7.03	8.64	-1.62
5700	4.10	10.80	0.35	4.45	8.64	-4.20
5720 (U-NII 2C)	4.99	10.80	0.35	5.34	8.64	-3.31
5720 (U-NII 3)	3.51	10.80	0.35	3.86	27.92	-24.06
5745	13.92	10.80	0.35	13.92	27.92	-14.00
5785	13.93	10.80	0.35	13.93	27.92	-13.99
5825	10.74	10.80	0.35	10.74	27.92	-17.18

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-4.4	10.80	0.66	-3.74	8.33	-12.07
5230	0.25	10.80	0.66	0.91	8.33	-7.42
5270	-0.92	10.80	0.66	-0.26	8.81	-9.07
5310	-2.56	10.80	0.66	-1.90	8.81	-10.71
5510	-0.66	10.80	0.66	0.00	8.64	-8.64
5550	-1.49	10.80	0.66	-0.83	8.64	-9.47
5670	-0.75	10.80	0.66	-0.09	8.64	-8.73
5710 (U-NII 2C)	-0.52	10.80	0.66	0.14	8.64	-8.50
5710 (U-NII 3)	-5.08	10.80	0.66	-4.42	27.92	-32.34
5755	9.61	10.80	0.66	9.61	27.92	-18.31
5795	9.47	10.80	0.66	9.47	27.92	-18.45

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-6.82	10.80	0.23	-6.59	8.33	-14.92
5290	-5.89	10.80	0.23	-5.66	8.81	-14.47
5530	-2.21	10.80	0.23	-1.98	8.64	-10.62
5610	-2.67	10.80	0.23	-2.44	8.64	-11.08
5690 (U-NII 2C)	-4.45	10.80	0.23	-4.22	8.64	-12.86
5690 (U-NII 3)	-10.83	10.80	0.23	-10.60	27.92	-38.52
5775	7.62	10.80	0.23	7.62	27.92	-20.30

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EIRP spectral density 802.11a MODE						EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	2.77	5.88	8.65	10	-1.35	5180	0.18	8.67	8.85	10	-1.15
5220	2.83	5.88	8.71	10	-1.29	5220	0.41	8.67	9.08	10	-0.92
5240	3.32	5.88	9.20	10	-0.80	5240	0.38	8.67	9.05	10	-0.95

EIRP spectral density 802.11n HT40 MODE						EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.74	8.67	4.93	10	-5.07	5210	-6.59	8.67	2.08	10	-7.92
5220	0.91	8.67	9.58	10	-0.42						

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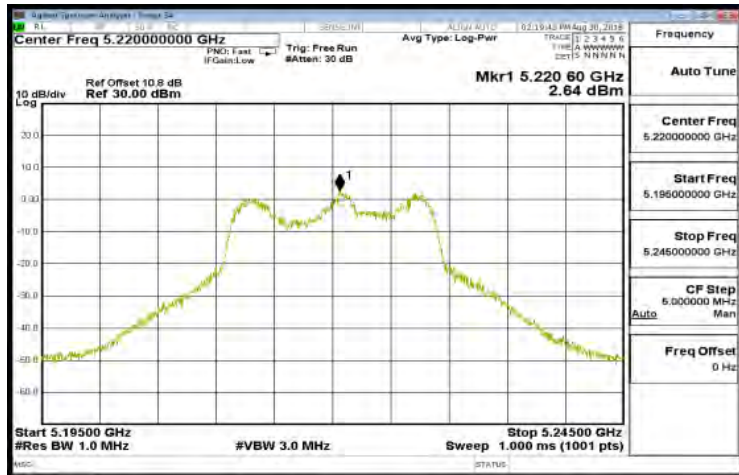
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802.11a_20MHz_5260MHz



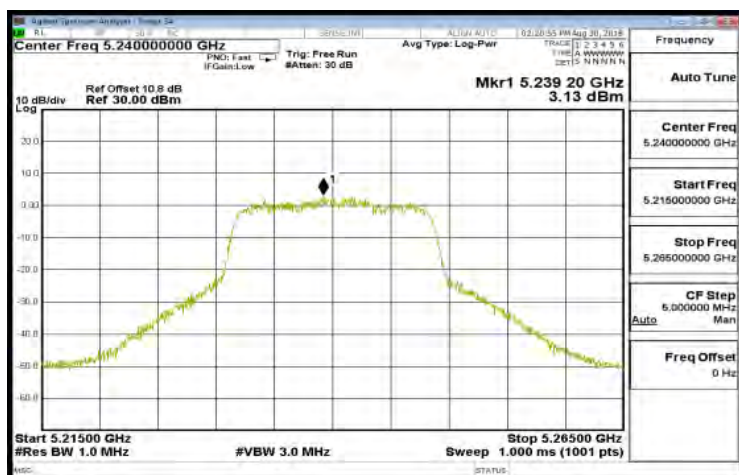
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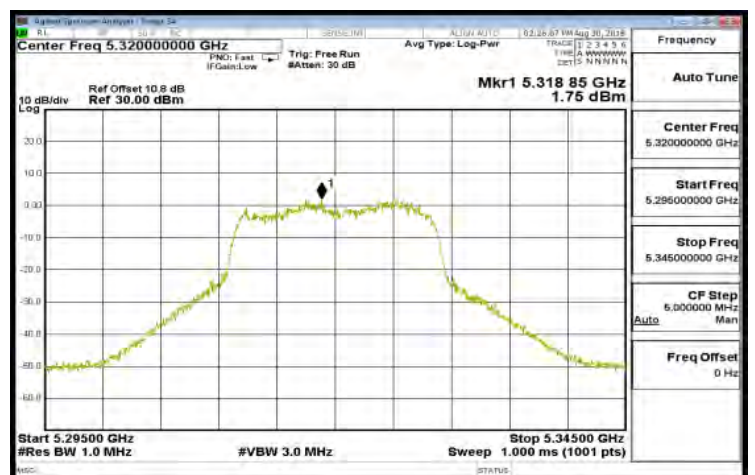
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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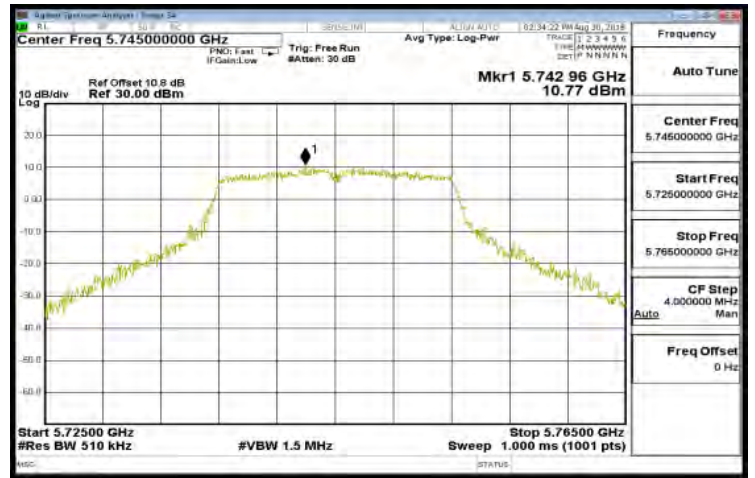
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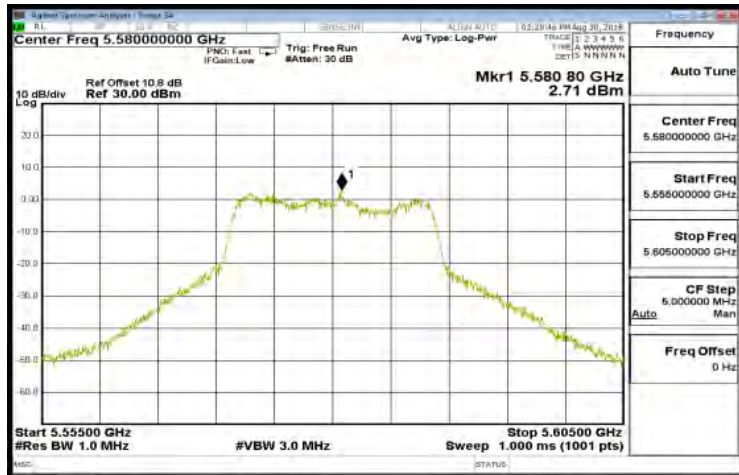
802.11a_20MHz_5500MHz



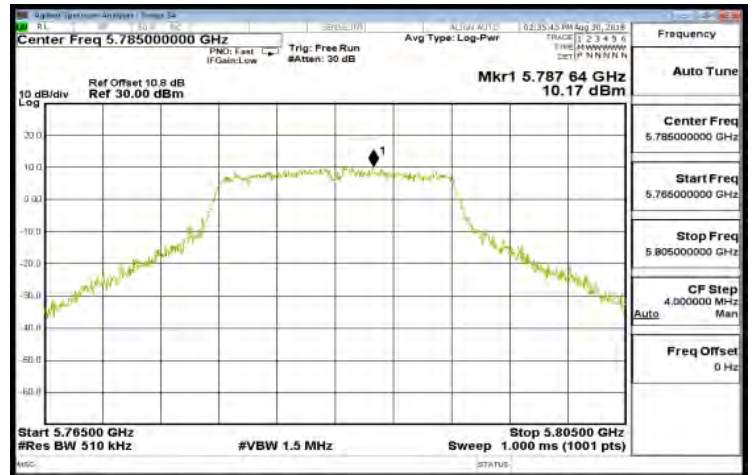
802.11a_20MHz_5745MHz



802.11a_20MHz_5580MHz



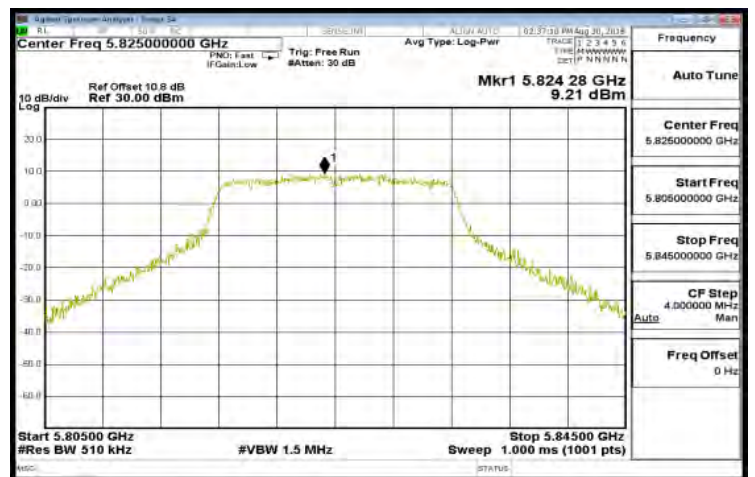
802.11a_20MHz_5785MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz



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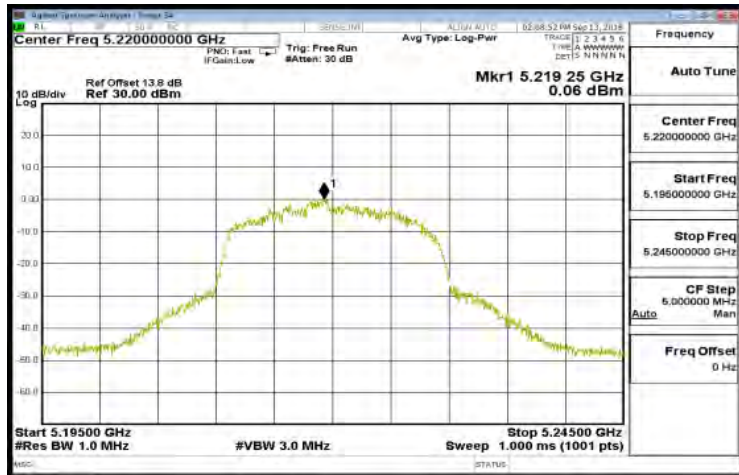
802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz



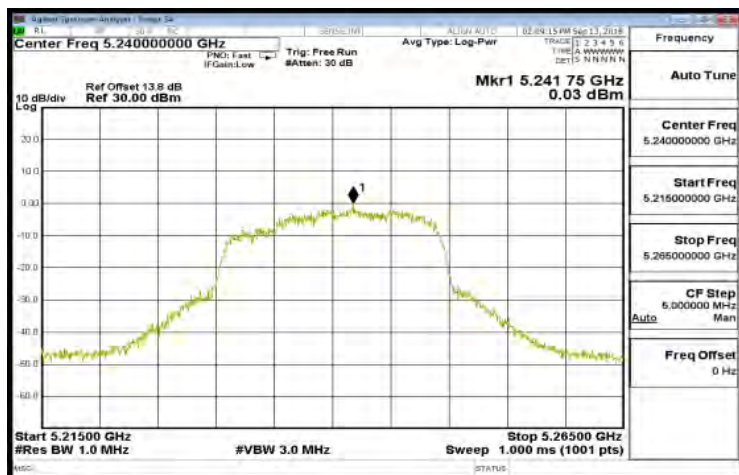
802.11n_20MHz_5220MHz



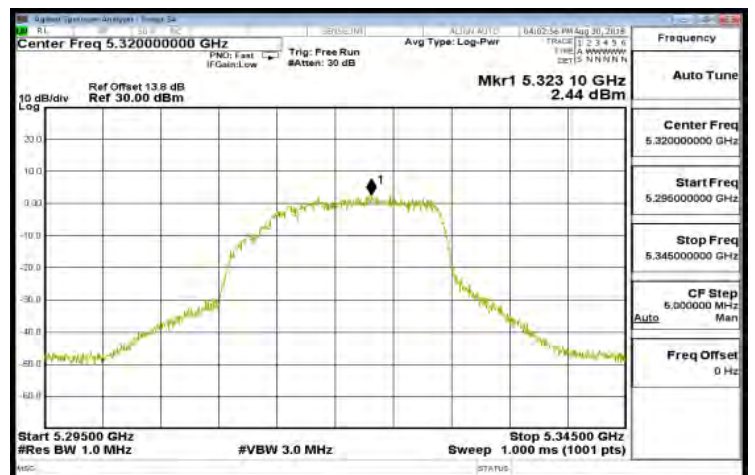
802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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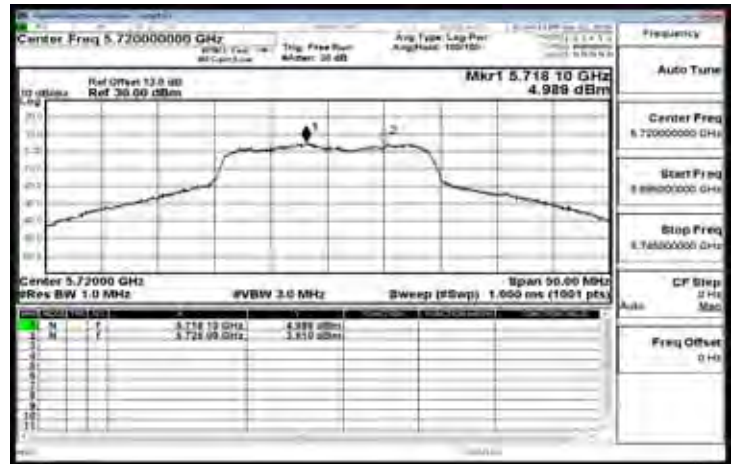
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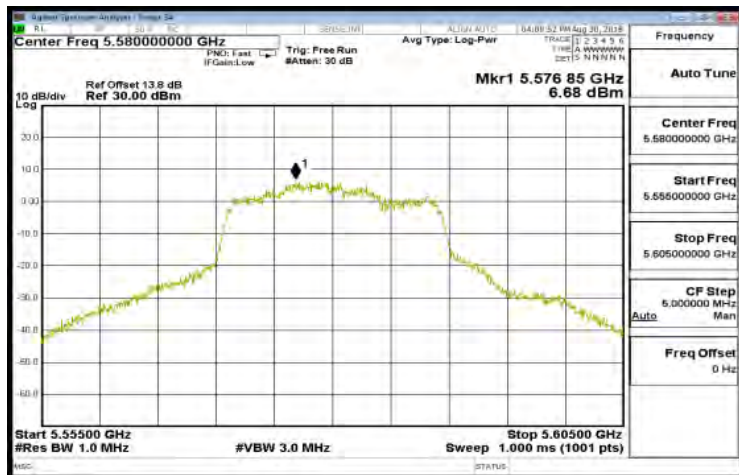
802.11n_20MHz_5500MHz



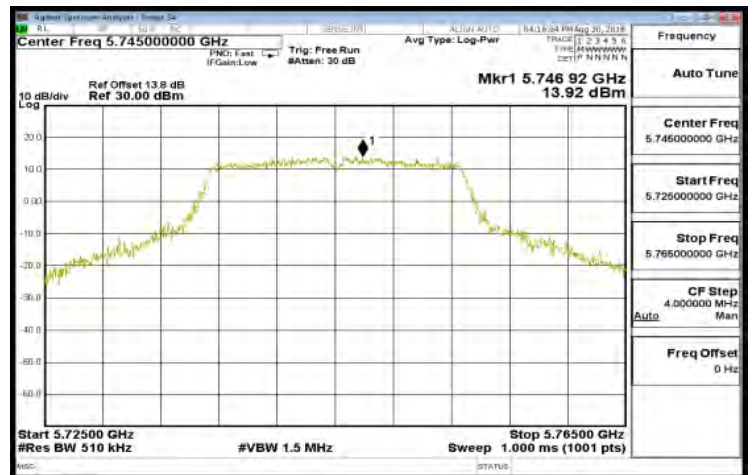
802.11n_20MHz_5720MHz



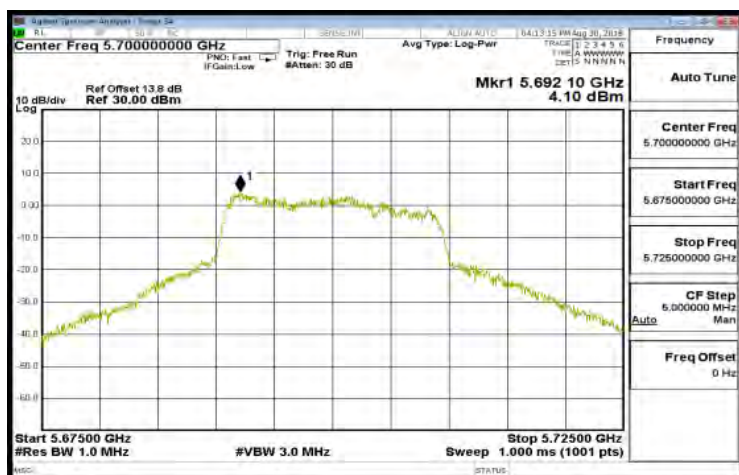
802.11n_20MHz_5580MHz



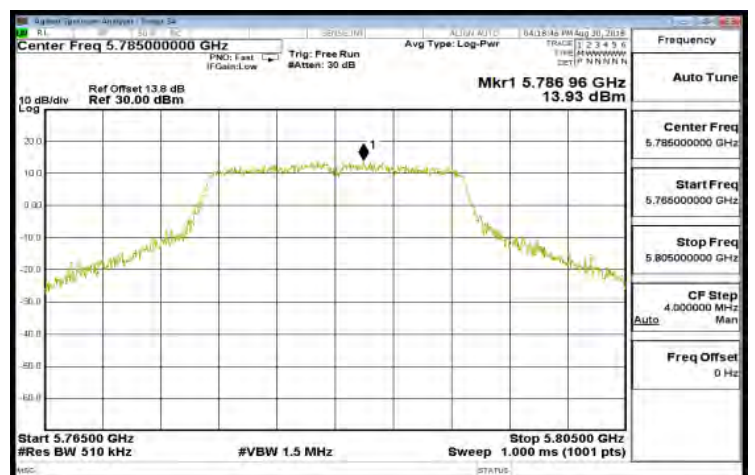
802.11n_20MHz_5745MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5785MHz

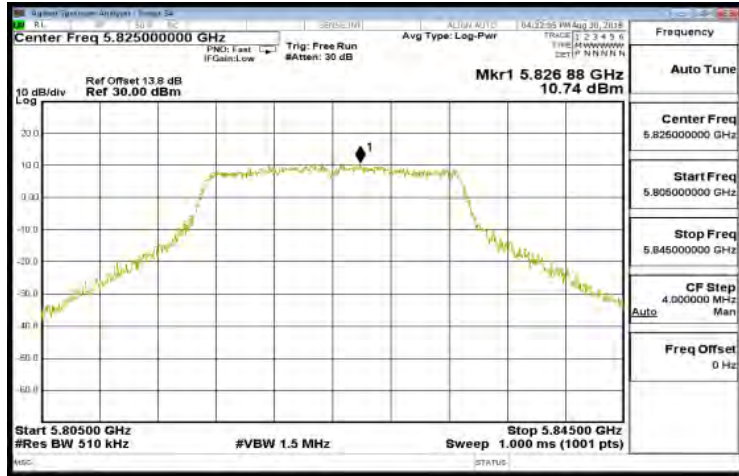


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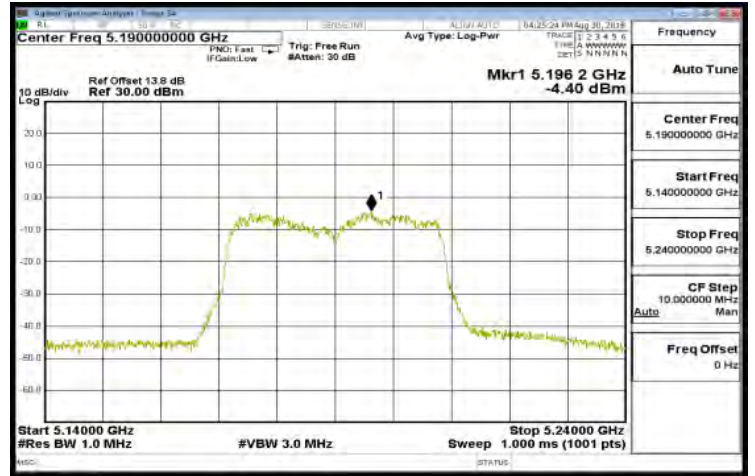
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802.11n_20MHz_5825MHz



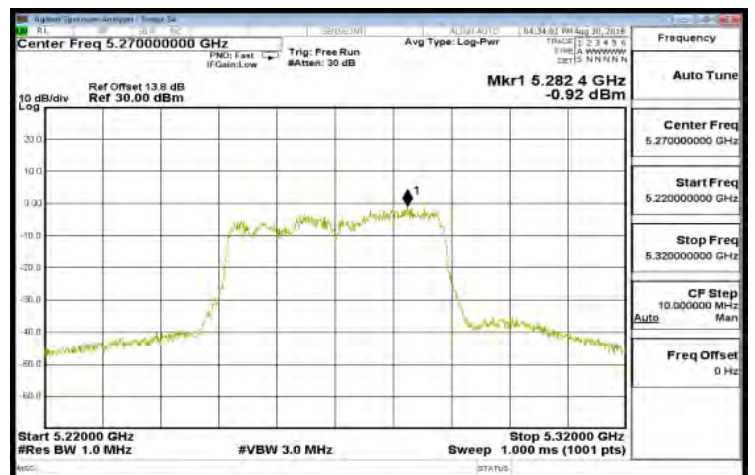
802.11n_40MHz_5190MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5270MHz



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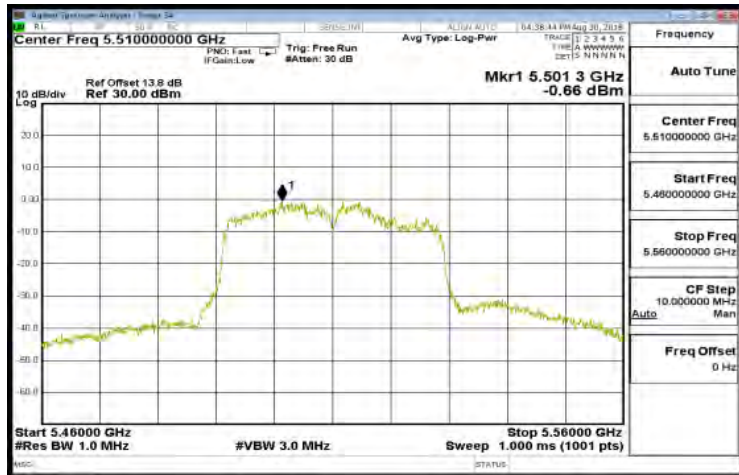
802.11n_40MHz_5310MHz



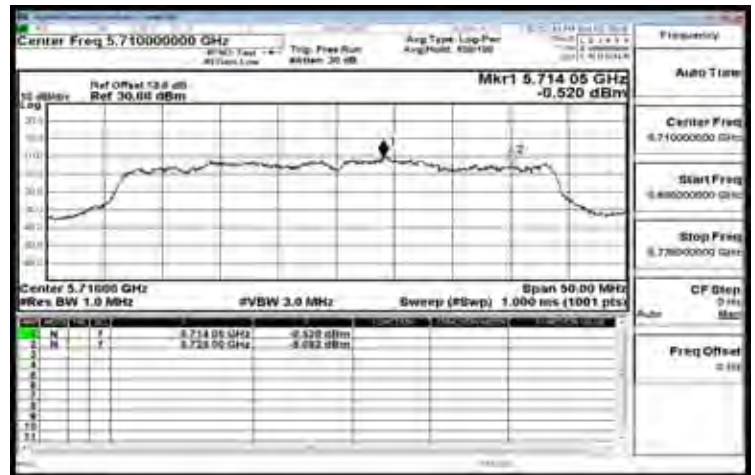
802.11n_40MHz_5670MHz



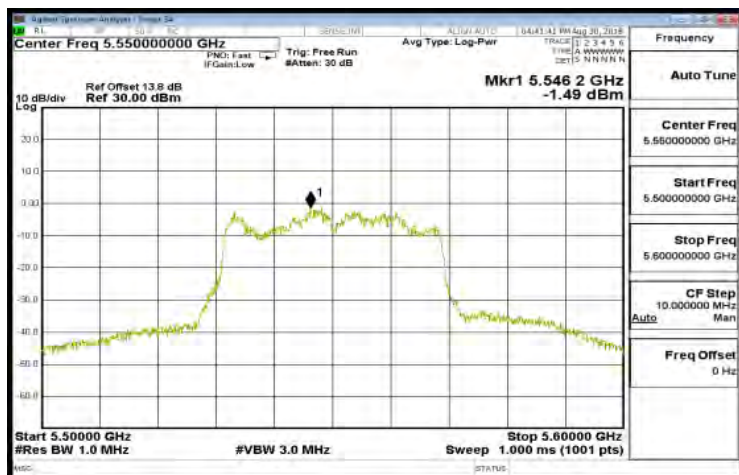
802.11n_40MHz_5510MHz



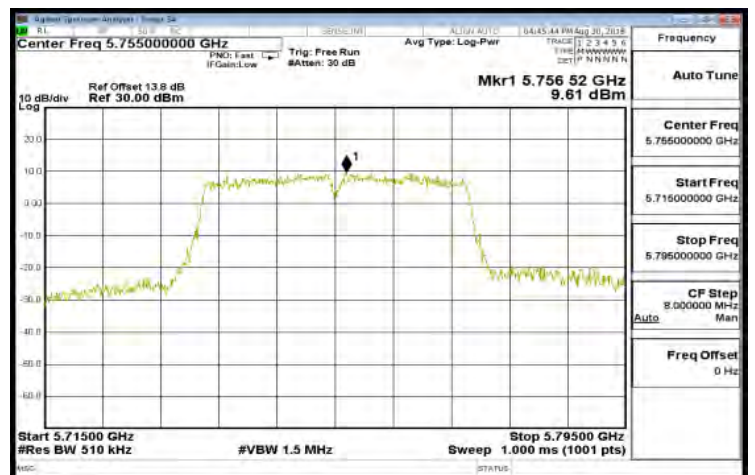
802.11n_40MHz_5710MHz



802.11n_40MHz_5550MHz



802.11n_40MHz_5755MHz

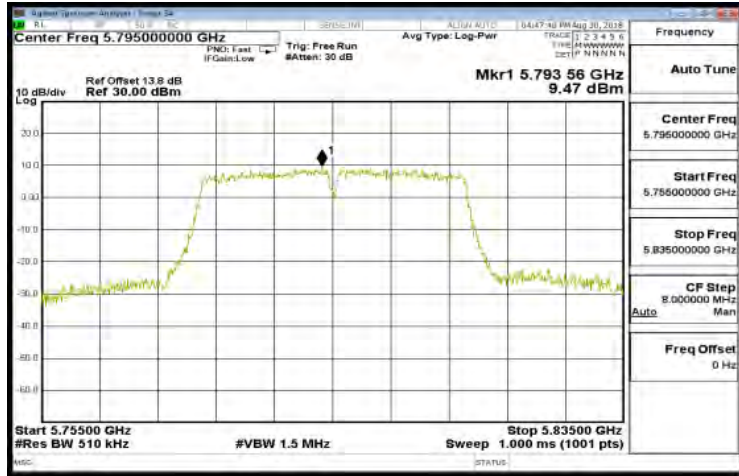


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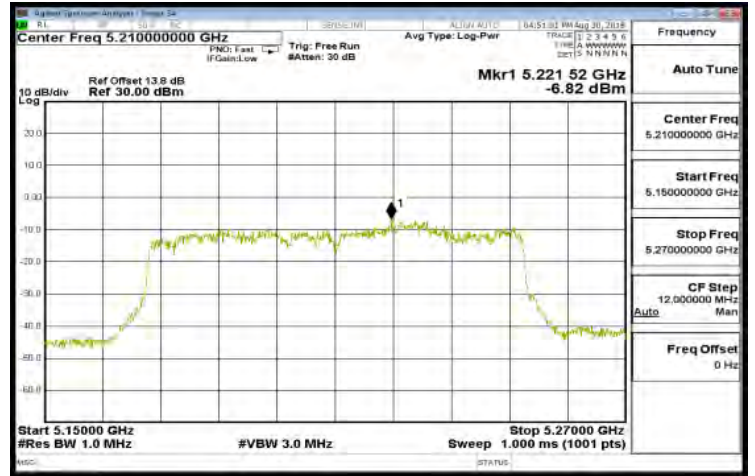
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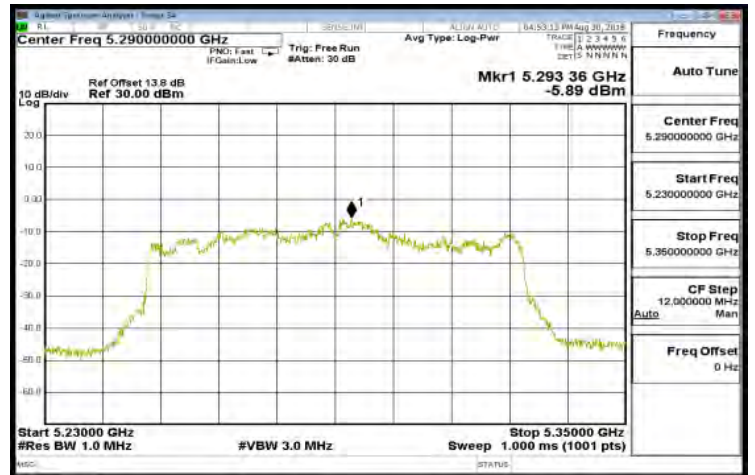
802.11n_40MHz_5795MHz



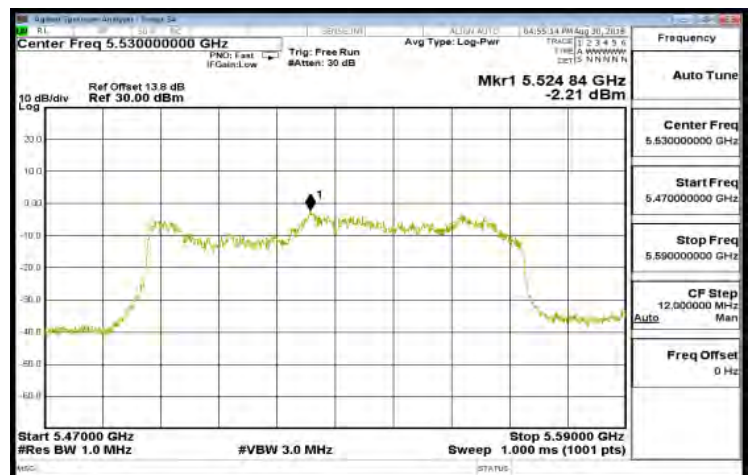
802.11ac_80MHz_5210MHz



802.11ac_80MHz_5290MHz



802.11ac_80MHz_5530MHz



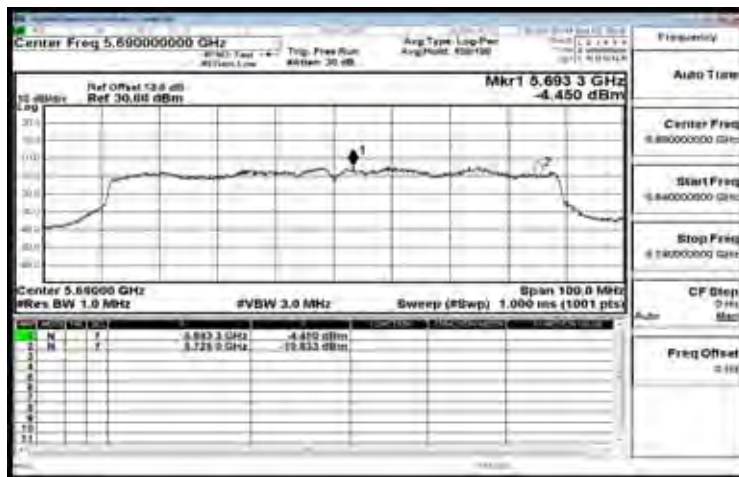
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802.11ac_80MHz_5610MHz



802.11ac_80MHz_5690MHz



802.11ac_80MHz_5775MHz



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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

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	2017/10/27	2018/10/26
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/6/6
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/9/25
3m Site NSA	SGS	966 chamber D	N/A	2018/07/06	2019/7/5
Spectrum Analyzer	Agilent	N9010A	MY53400256	2017/10/30	2018/10/29
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Pre-Amplifier	EMC Instruments	EMC9135	980234	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	2017/12/26	2018/12/25
Attenuator	Marvelous	WATT-218FS-10	RF246	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF81	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G015	RF100	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G016	RF101	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G021	RF102	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0012467	N/A	N/A

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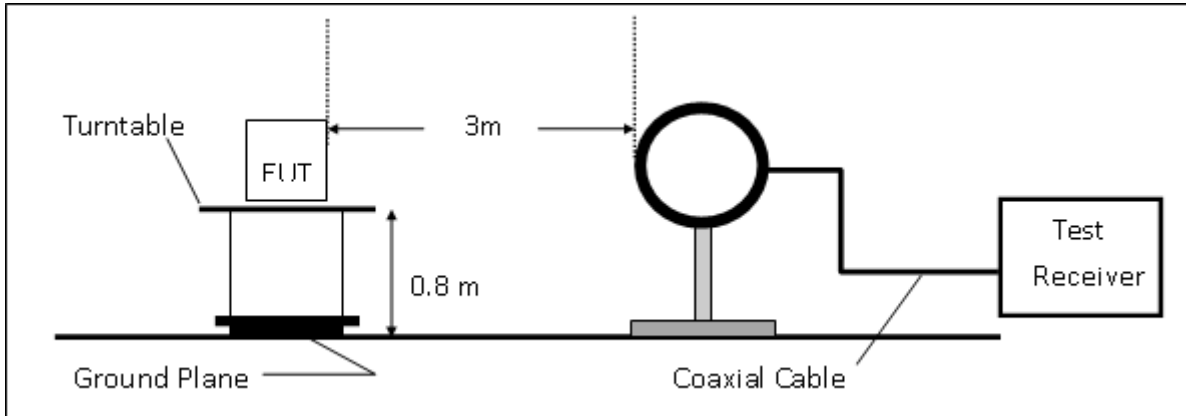
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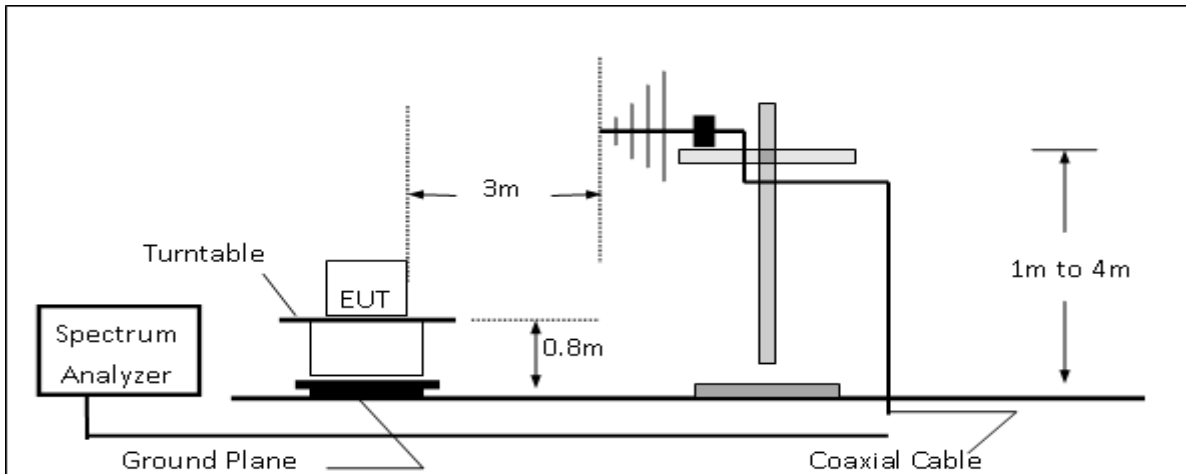
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11.3 Test SET-UP

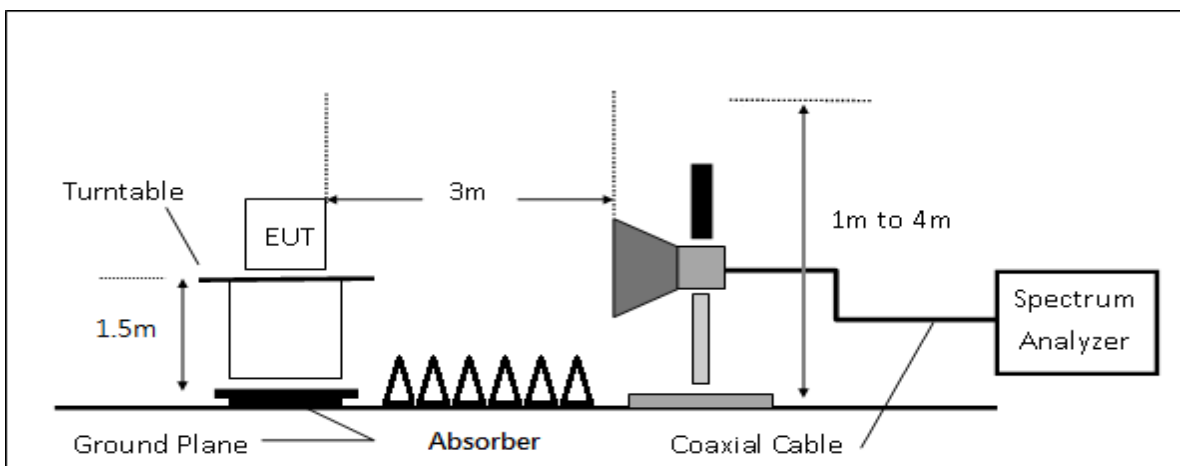
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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	

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

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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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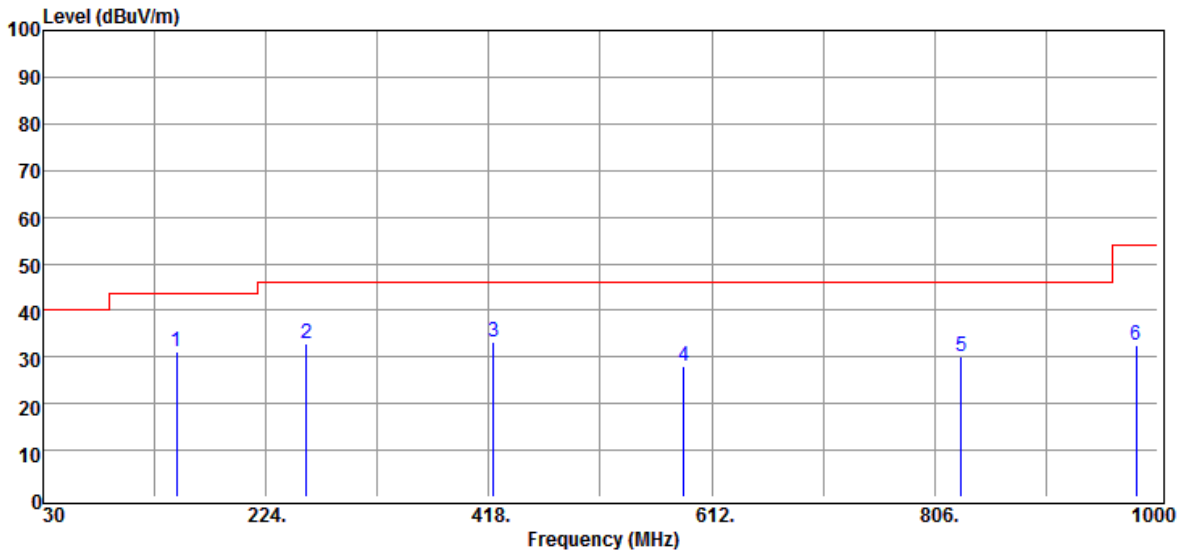
Member of SGS Group

Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
146.40	Peak	47.58	-16.28	31.30	43.50	-12.20
258.92	Peak	49.57	-16.69	32.88	46.00	-13.12
421.88	Peak	45.41	-12.19	33.22	46.00	-12.78
587.75	Peak	36.89	-8.77	28.12	46.00	-17.88
829.28	Peak	36.57	-6.37	30.20	46.00	-15.80
981.57	Peak	36.03	-3.54	32.49	54.00	-21.51

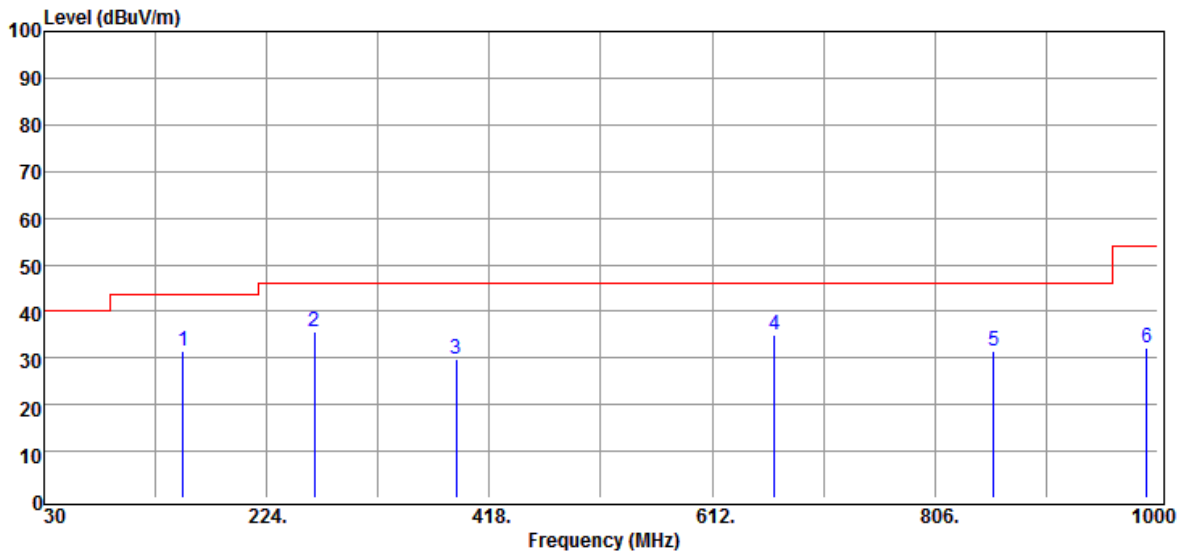
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Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
151.25	Peak	47.62	-16.17	31.45	43.50	-12.05
265.71	Peak	52.16	-16.42	35.74	46.00	-10.26
388.90	Peak	43.00	-13.07	29.93	46.00	-16.07
666.32	Peak	43.54	-8.72	34.82	46.00	-11.18
857.41	Peak	36.98	-5.51	31.47	46.00	-14.53
990.30	Peak	36.01	-3.87	32.14	54.00	-21.86

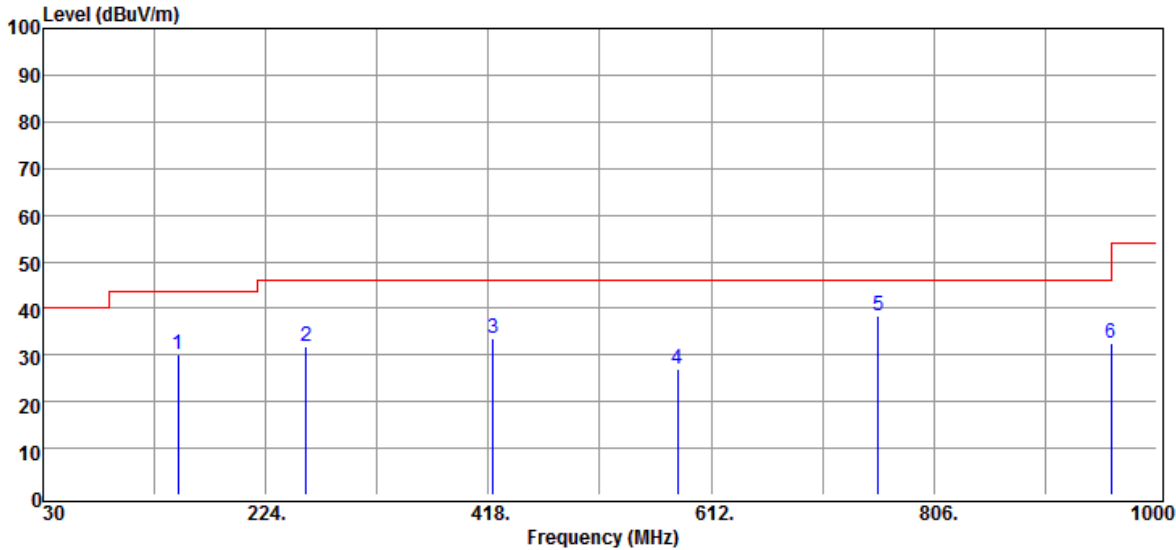
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802.11a 5250~5350 MHz

Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



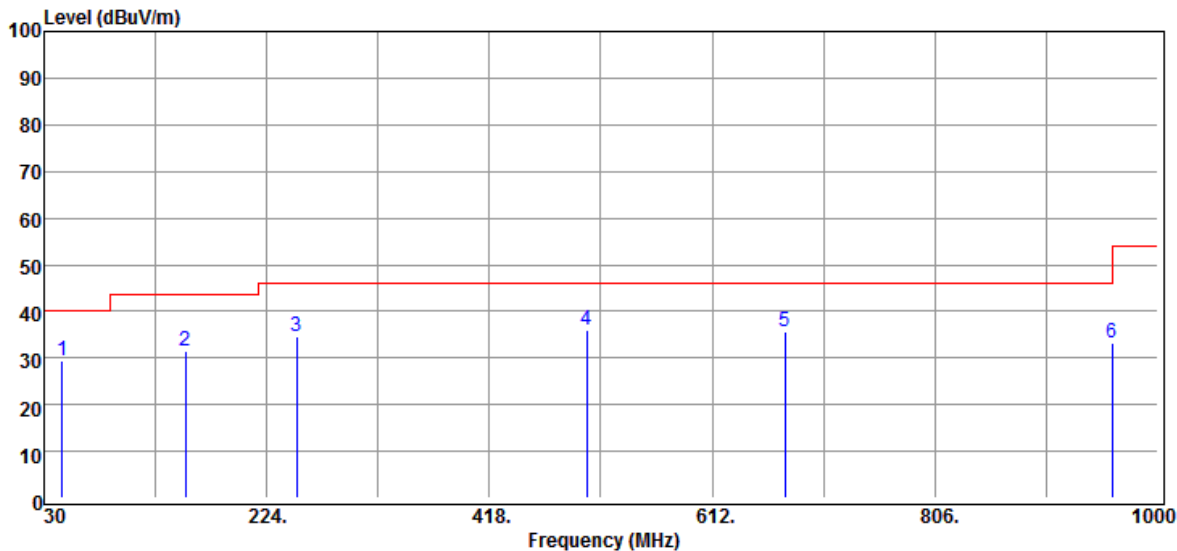
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
147.37	Peak	46.27	-16.24	30.03	43.50	-13.47
258.92	Peak	48.48	-16.69	31.79	46.00	-14.21
421.88	Peak	45.60	-12.19	33.41	46.00	-12.59
582.90	Peak	35.96	-8.89	27.07	46.00	-18.93
757.50	Peak	45.18	-6.76	38.42	46.00	-7.58
960.23	Peak	36.51	-4.07	32.44	54.00	-21.56

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	Peak	46.50	-17.01	29.49	40.00	-10.51
153.19	Peak	47.80	-16.17	31.63	43.50	-11.87
250.19	Peak	51.62	-16.91	34.71	46.00	-11.29
502.39	Peak	47.27	-11.11	36.16	46.00	-9.84
675.05	Peak	43.79	-8.25	35.54	46.00	-10.46
960.23	Peak	37.46	-4.07	33.39	54.00	-20.61

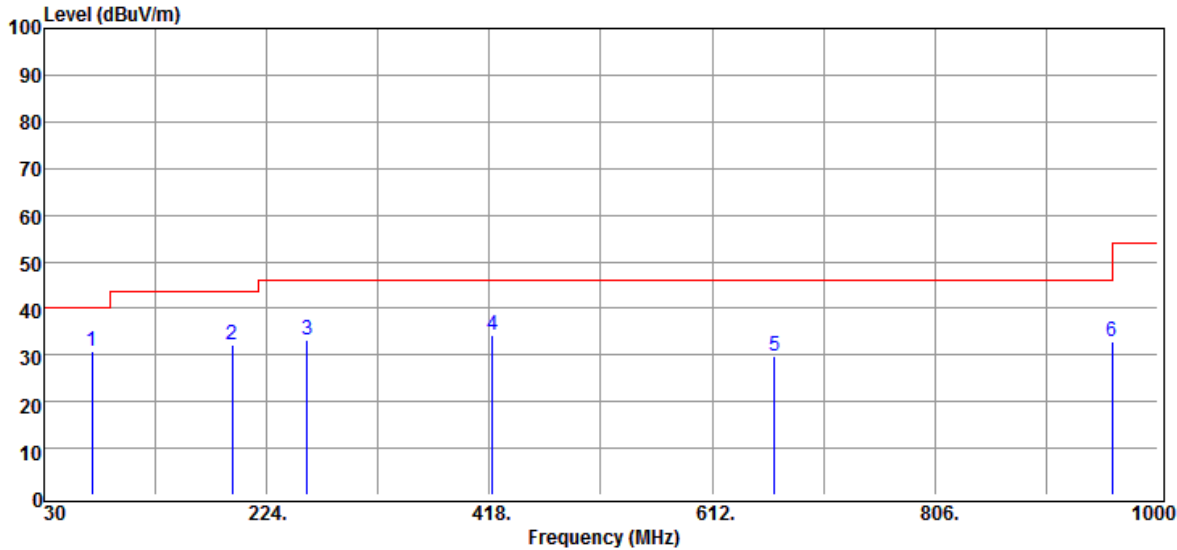
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802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



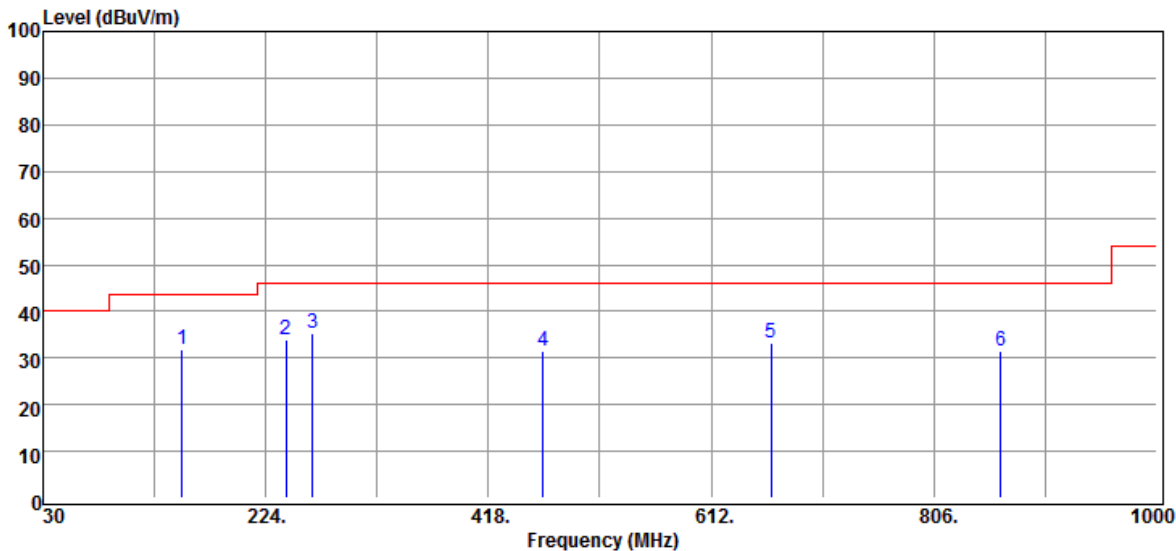
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	Peak	50.56	-19.83	30.73	40.00	-9.27
193.93	Peak	50.79	-18.45	32.34	43.50	-11.16
258.92	Peak	49.77	-16.69	33.08	46.00	-12.92
420.91	Peak	46.32	-12.22	34.10	46.00	-11.90
666.32	Peak	38.39	-8.72	29.67	46.00	-16.33
960.23	Peak	36.97	-4.07	32.90	54.00	-21.10

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
151.25	Peak	48.02	-16.17	31.85	43.50	-11.65
241.46	Peak	51.60	-17.78	33.82	46.00	-12.18
264.74	Peak	51.60	-16.47	35.13	46.00	-10.87
465.53	Peak	42.92	-11.52	31.40	46.00	-14.60
664.38	Peak	42.17	-8.78	33.39	46.00	-12.61
864.20	Peak	36.77	-5.18	31.59	46.00	-14.41

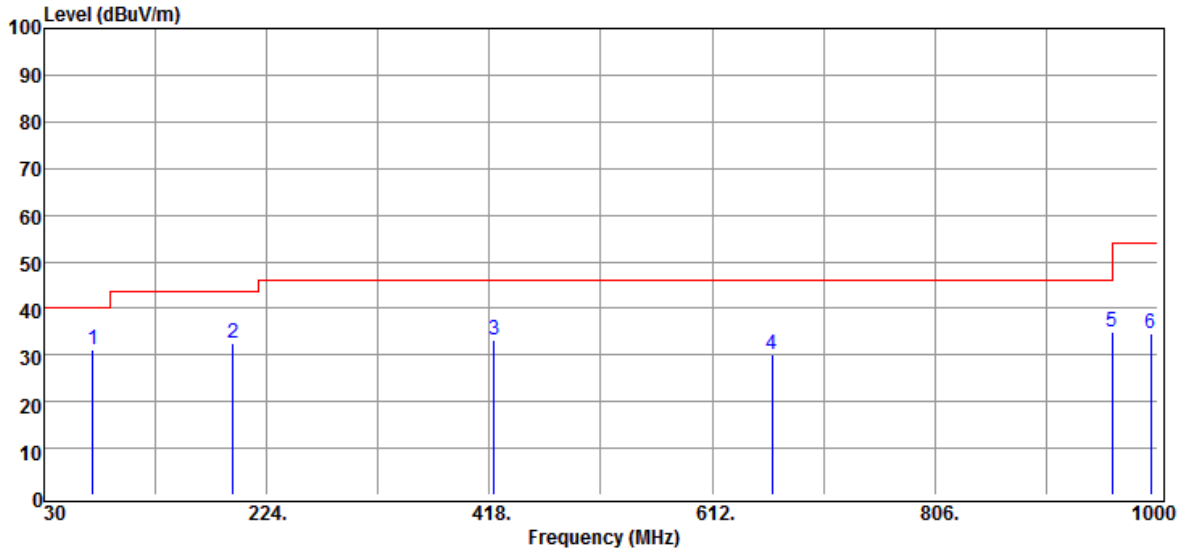
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802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



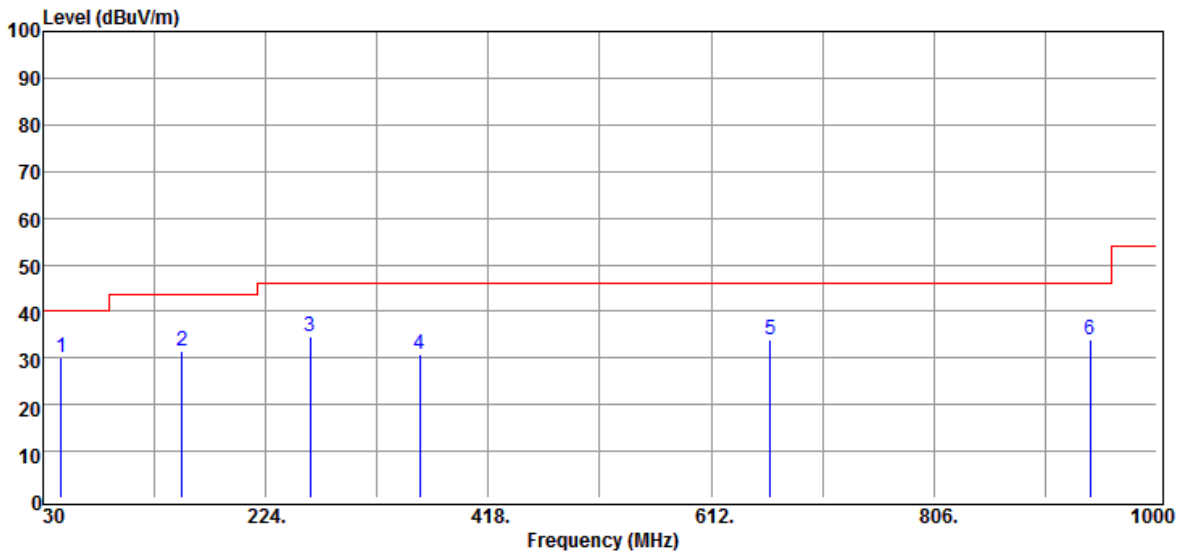
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
72.68	Peak	51.28	-20.03	31.25	40.00	-8.75
194.90	Peak	50.92	-18.48	32.44	43.50	-11.06
421.88	Peak	45.38	-12.19	33.19	46.00	-12.81
664.38	Peak	38.78	-8.78	30.00	46.00	-16.00
960.23	Peak	39.00	-4.07	34.93	54.00	-19.07
994.18	Peak	38.38	-3.83	34.55	54.00	-19.45

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
45.52	Peak	47.00	-17.01	29.99	40.00	-10.01
151.25	Peak	47.65	-16.17	31.48	43.50	-12.02
262.80	Peak	51.12	-16.55	34.57	46.00	-11.43
357.86	Peak	44.67	-13.79	30.88	46.00	-15.12
663.41	Peak	42.81	-8.80	34.01	46.00	-11.99
941.80	Peak	38.66	-4.59	34.07	46.00	-11.93

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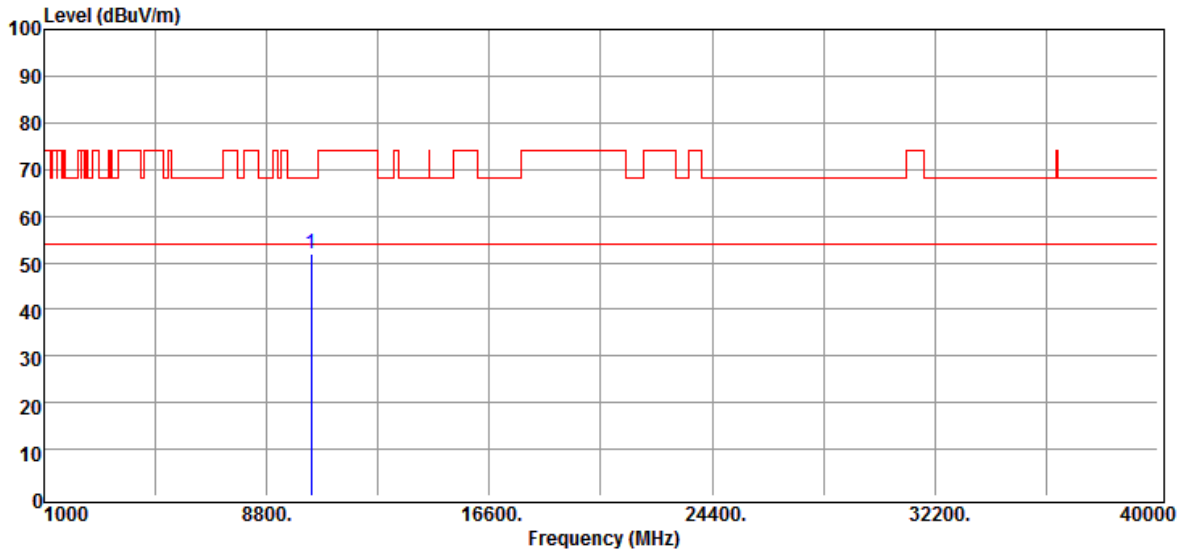
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



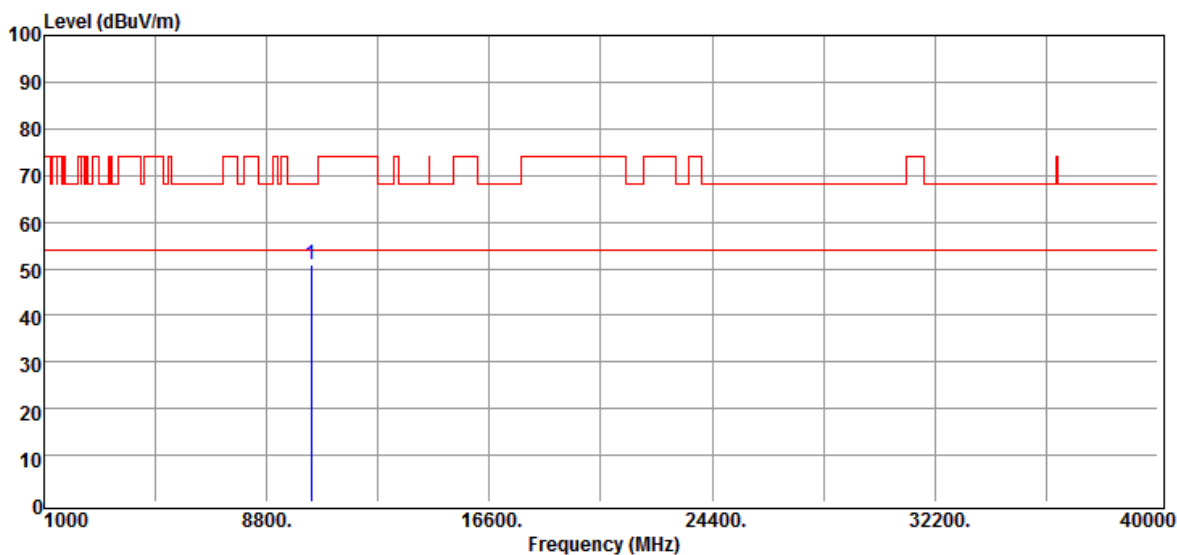
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	39.55	12.41	51.96	68.20	-16.24

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Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



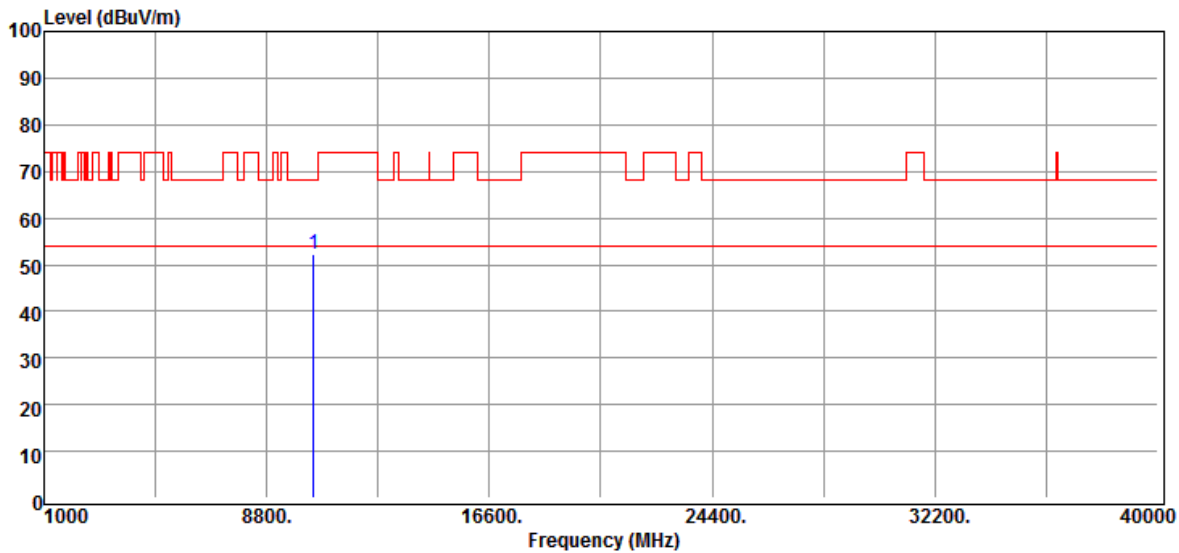
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	38.57	12.41	50.98	68.20	-17.22

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Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



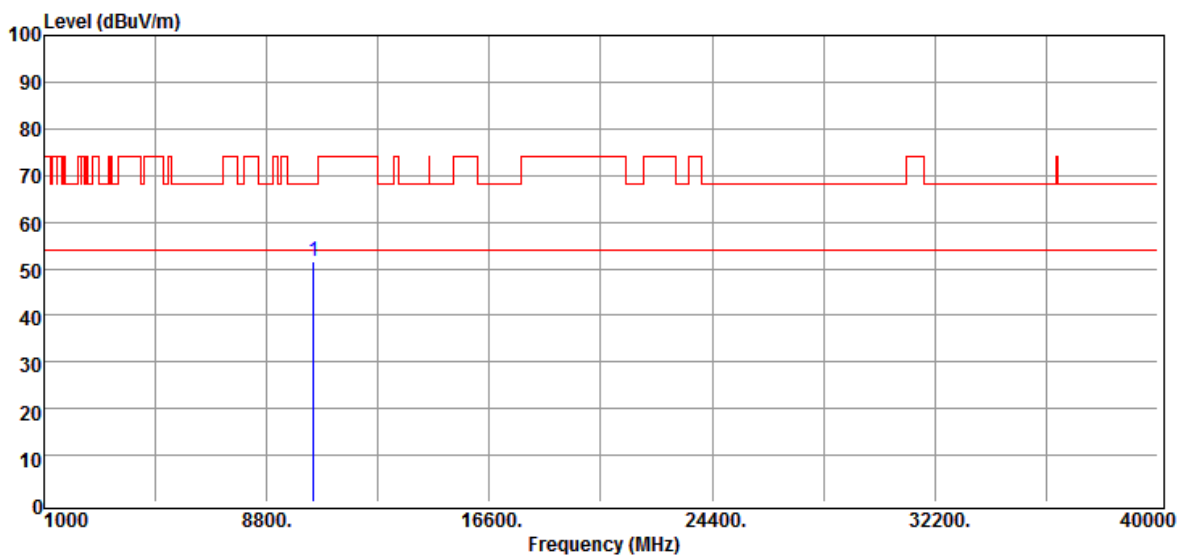
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	39.88	12.52	52.40	68.20	-15.80

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Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



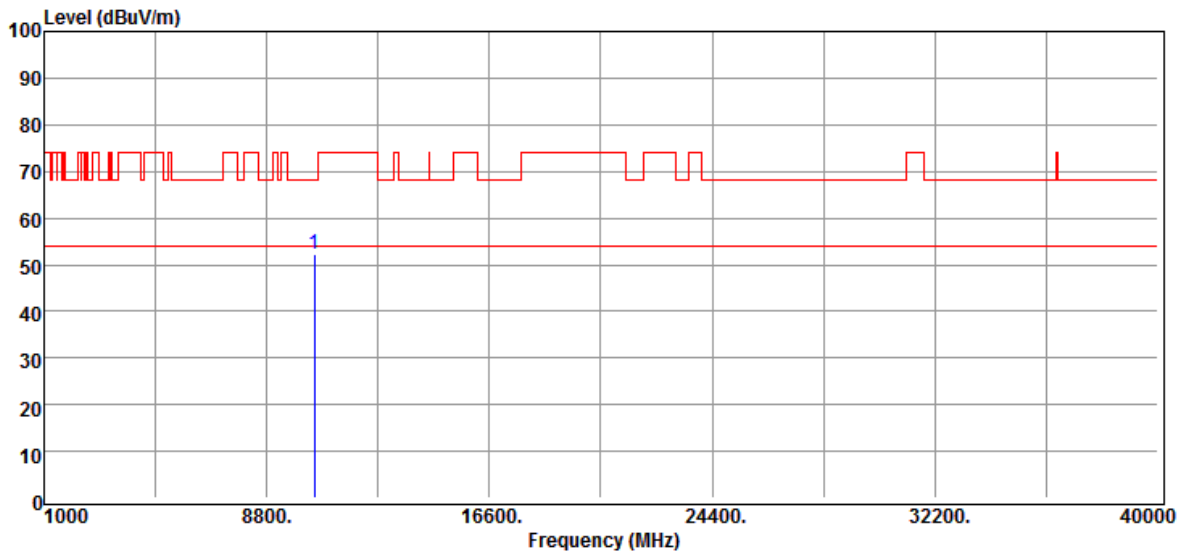
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	38.94	12.52	51.46	68.20	-16.74

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Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Jerry



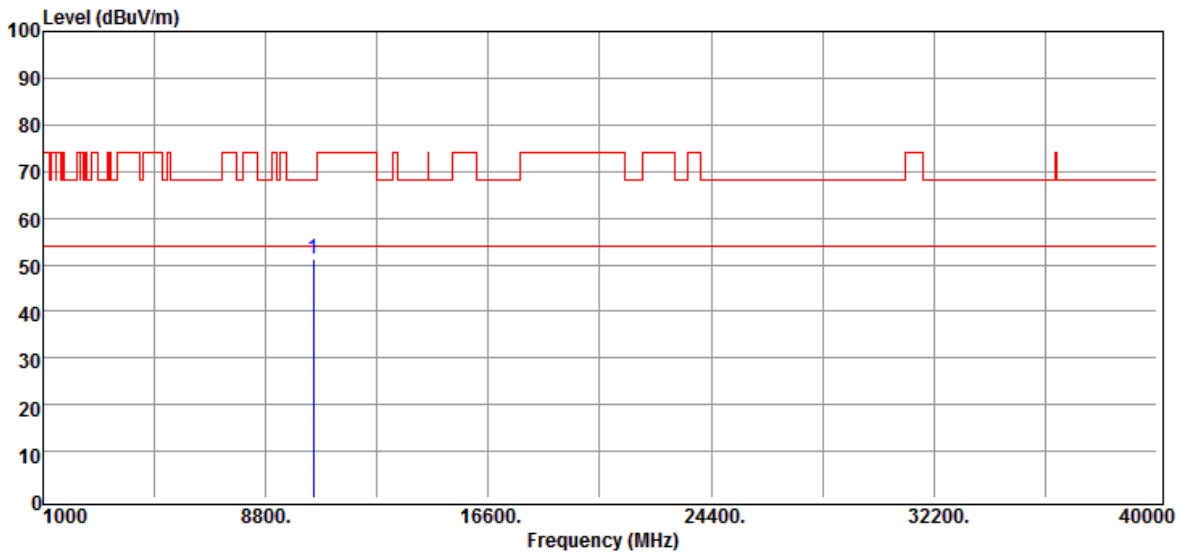
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	39.73	12.58	52.31	68.20	-15.89

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Operation Mode	:802.11a / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.67	12.58	51.25	68.20	-16.95

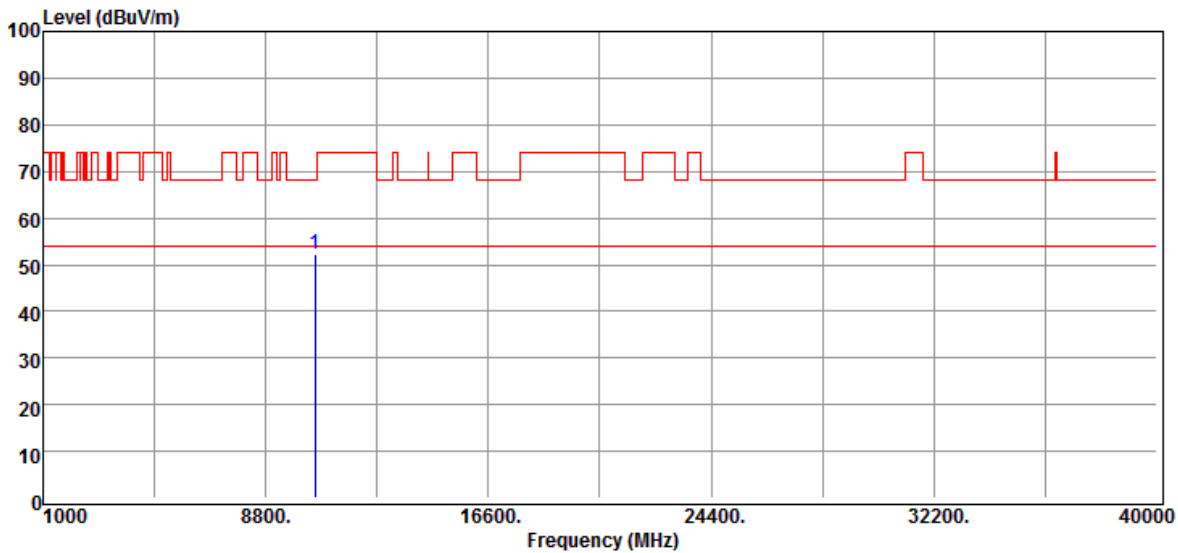
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Jerry



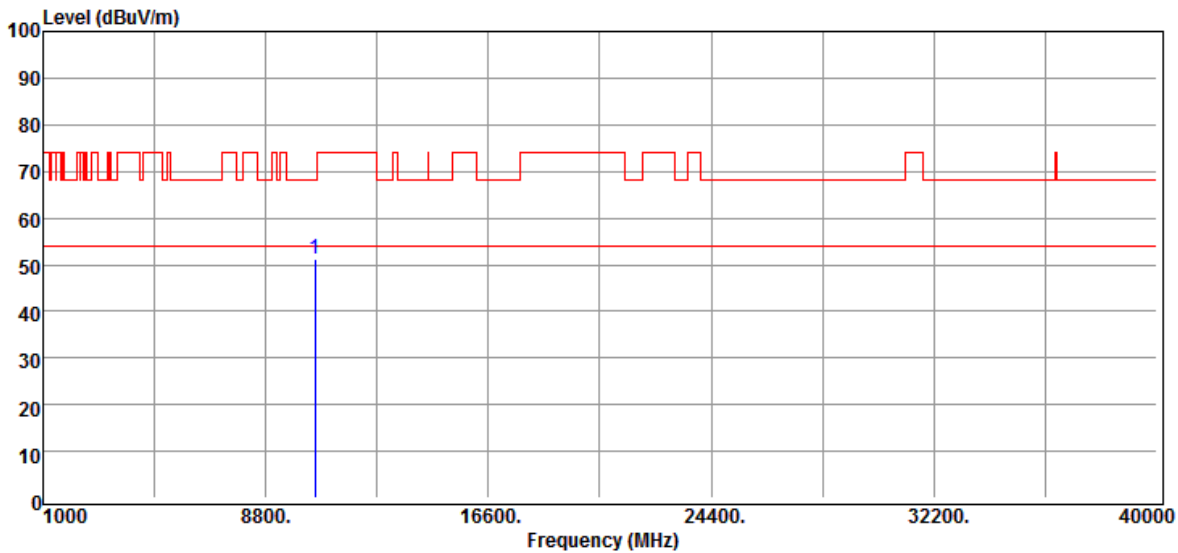
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	39.62	12.55	52.17	68.20	-16.03

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Jerry



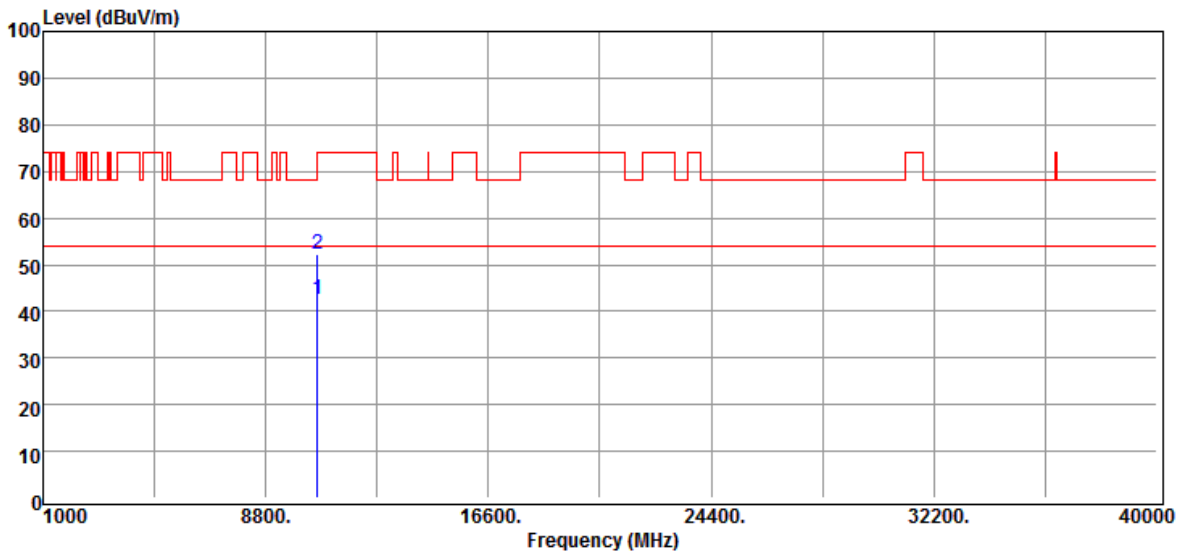
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	38.66	12.55	51.21	68.20	-16.99

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



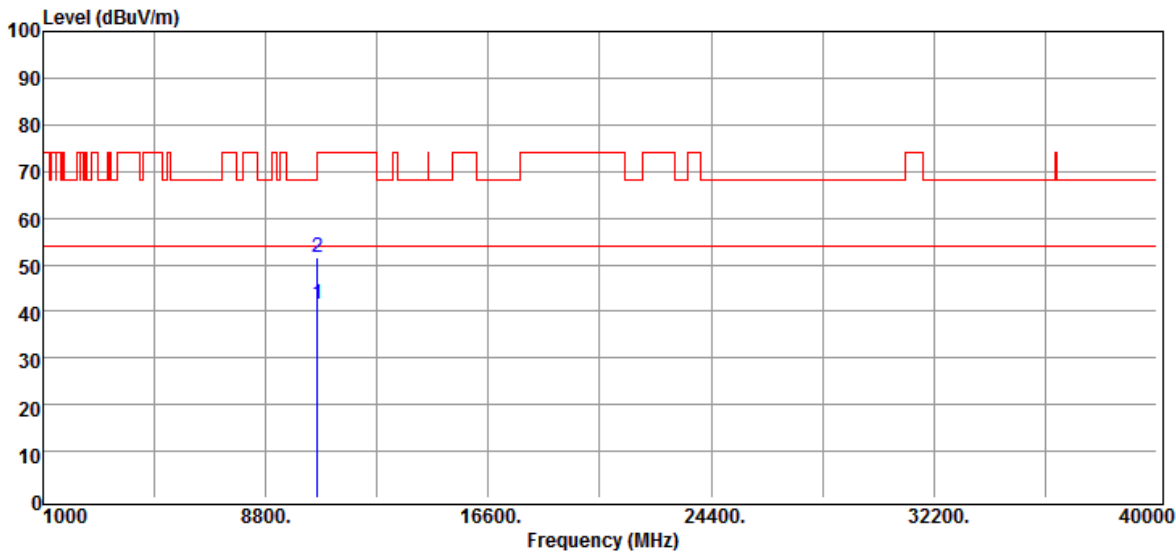
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	30.37	12.30	42.67	54.00	-11.33
10600.00	Peak	40.10	12.30	52.40	74.00	-21.60

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



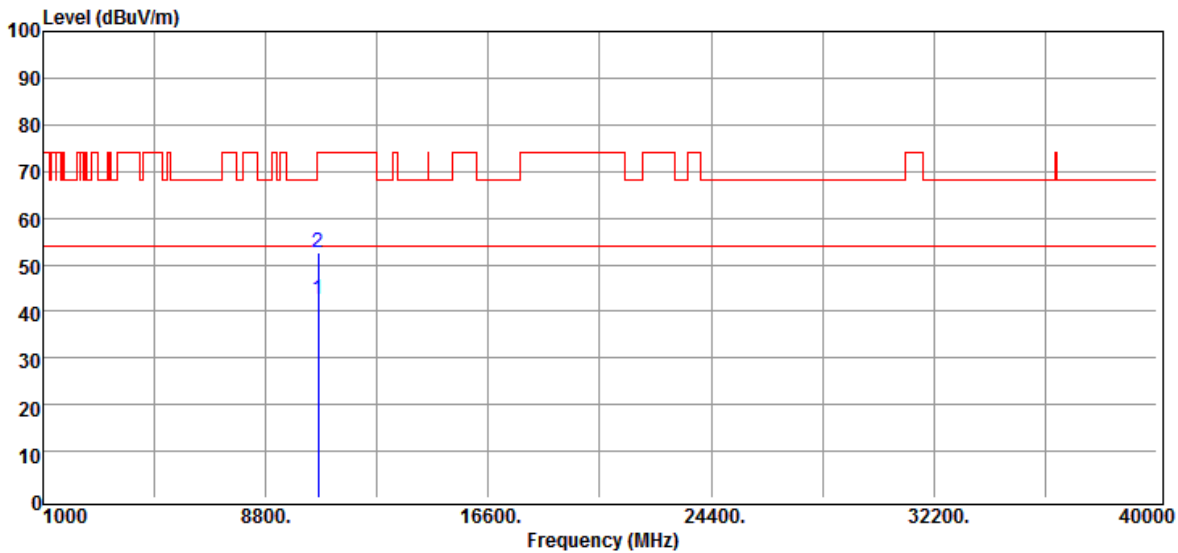
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	29.05	12.30	41.35	54.00	-12.65
10600.00	Peak	39.12	12.30	51.42	74.00	-22.58

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



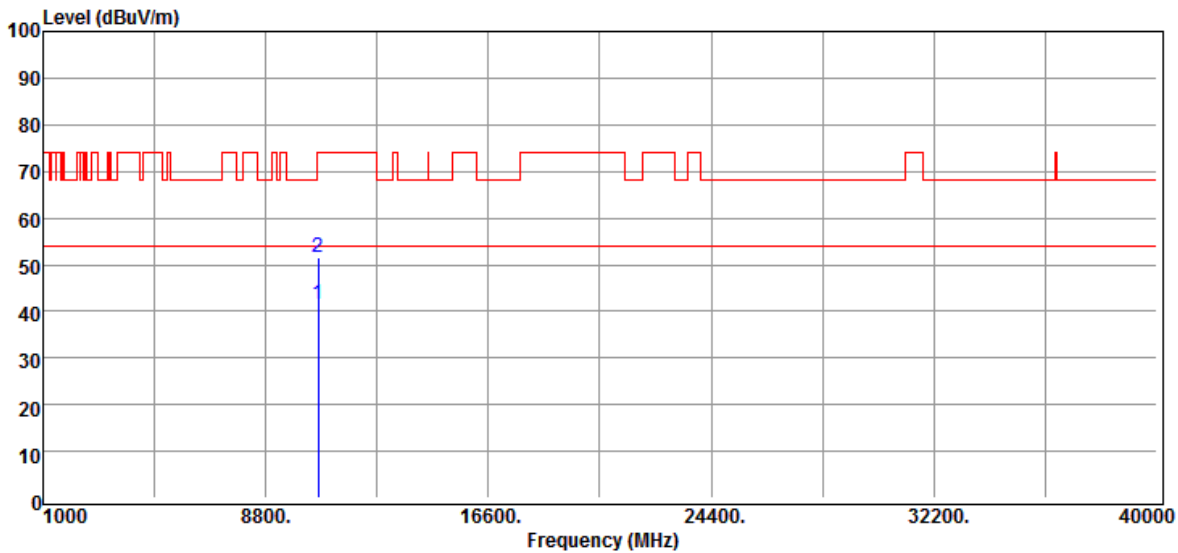
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	30.52	12.04	42.56	54.00	-11.44
10640.00	Peak	40.69	12.04	52.73	74.00	-21.27

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	29.34	12.04	41.38	54.00	-12.62
10640.00	Peak	39.53	12.04	51.57	74.00	-22.43

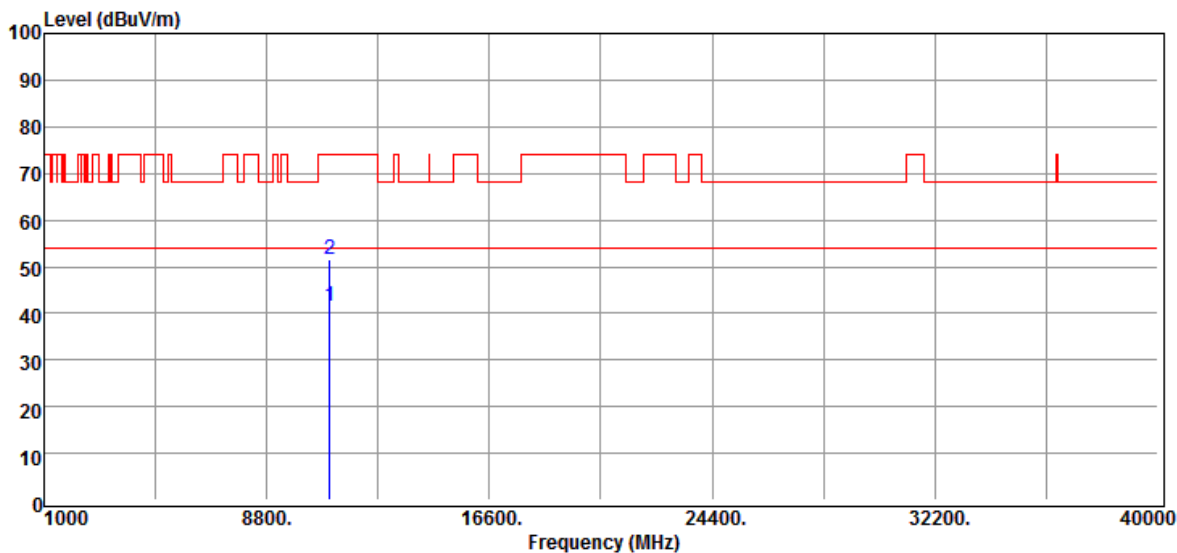
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



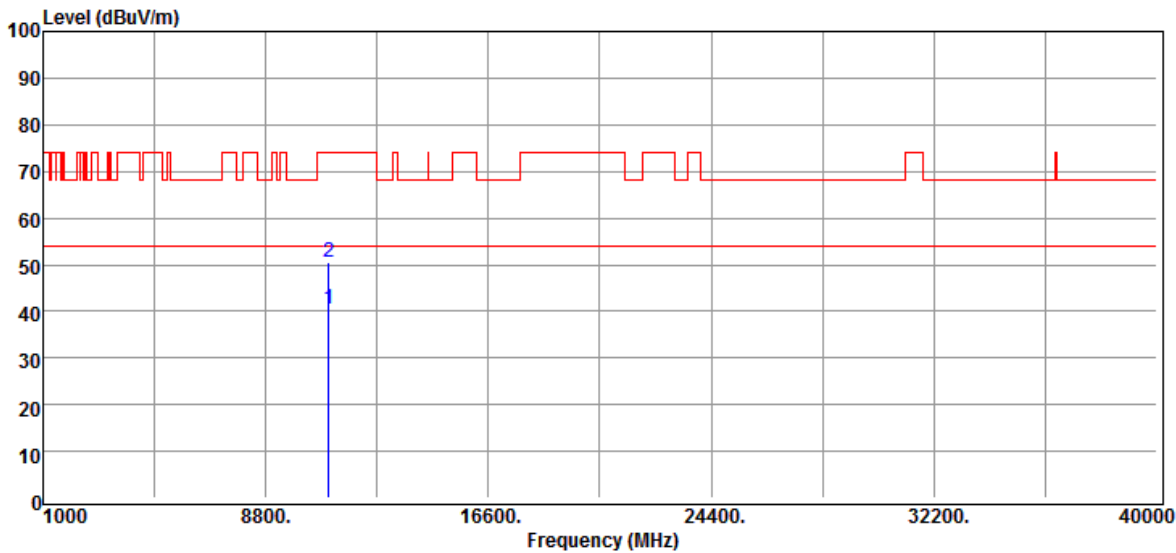
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	30.59	10.96	41.55	54.00	-12.45
11000.00	Peak	40.60	10.96	51.56	74.00	-22.44

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



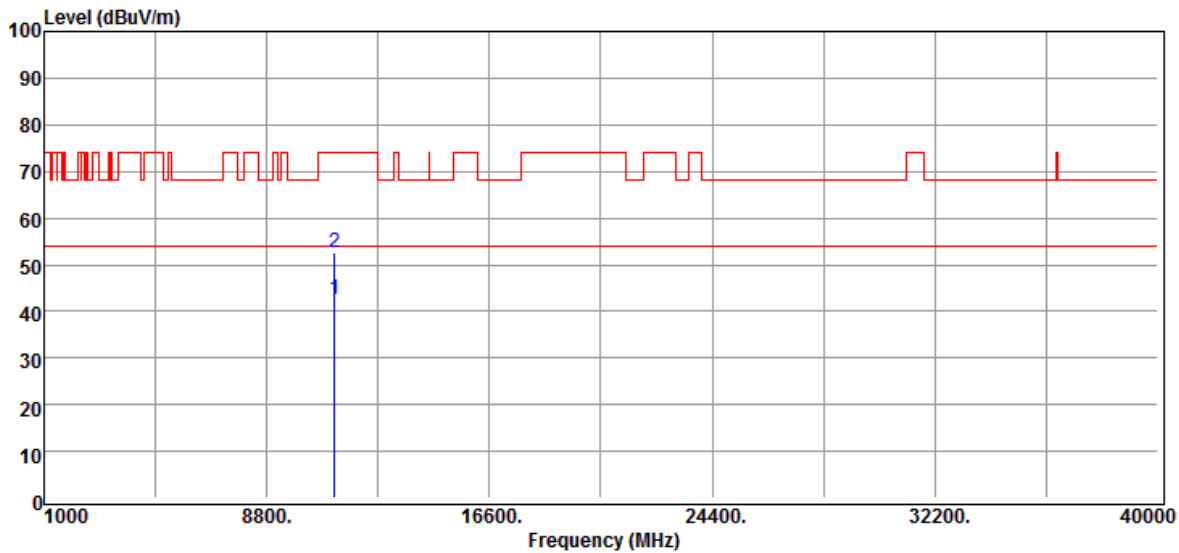
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	29.39	10.96	40.35	54.00	-13.65
11000.00	Peak	39.69	10.96	50.65	74.00	-23.35

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



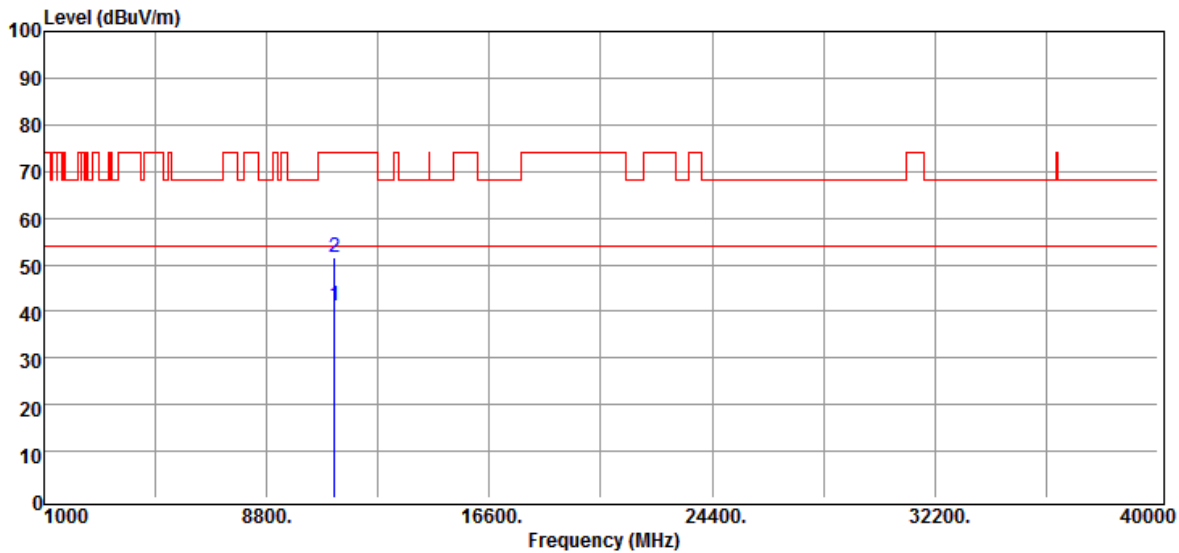
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	30.40	12.11	42.51	54.00	-11.49
11160.00	Peak	40.32	12.11	52.43	74.00	-21.57

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



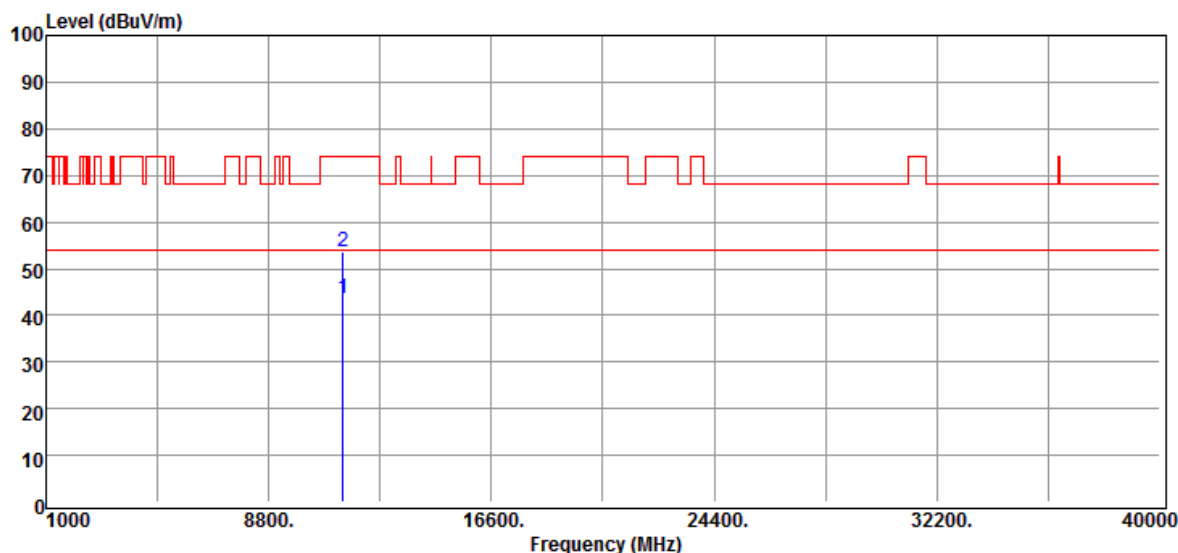
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	29.17	12.11	41.28	54.00	-12.72
11160.00	Peak	39.39	12.11	51.50	74.00	-22.50

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



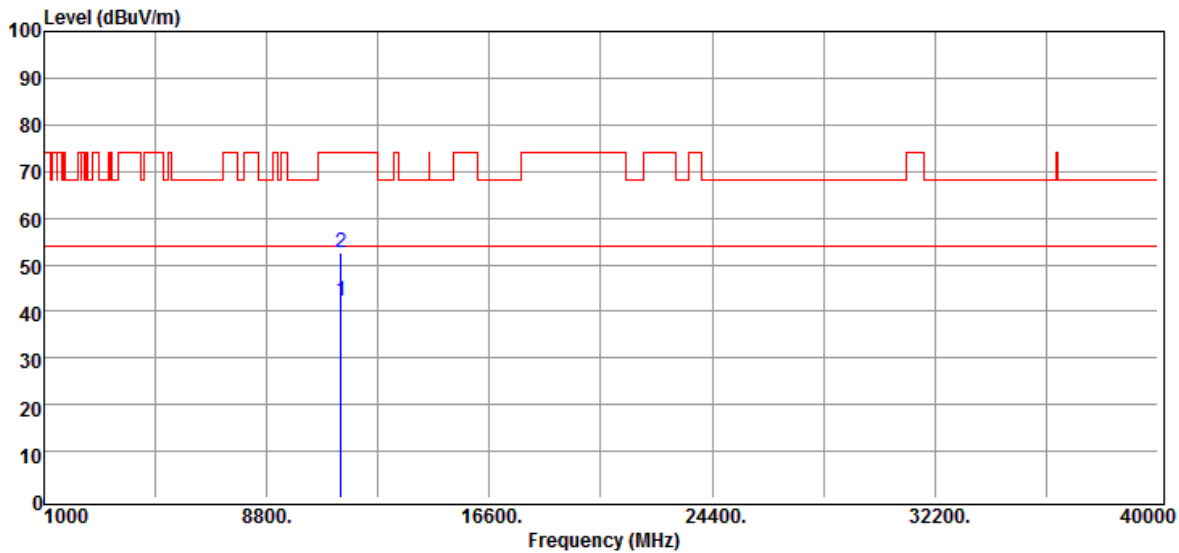
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	30.56	12.98	43.54	54.00	-10.46
11400.00	Peak	40.68	12.98	53.66	74.00	-20.34

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	29.34	12.98	42.32	54.00	-11.68
11400.00	Peak	39.56	12.98	52.54	74.00	-21.46

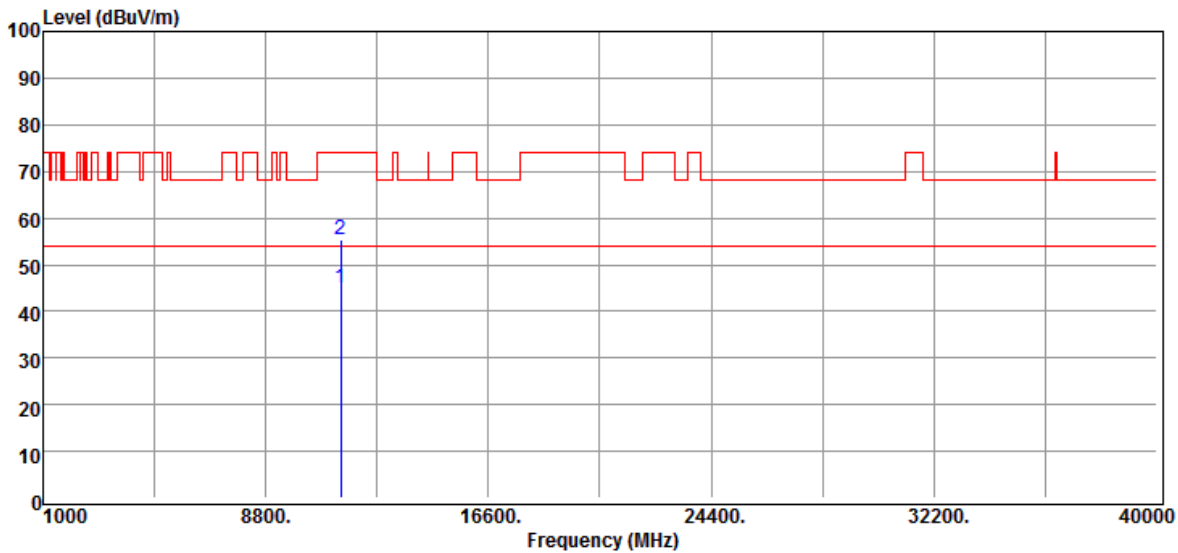
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band3/4	Test Date	:2018-08-17
Test Mode	:Tx CH 144	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Jerry



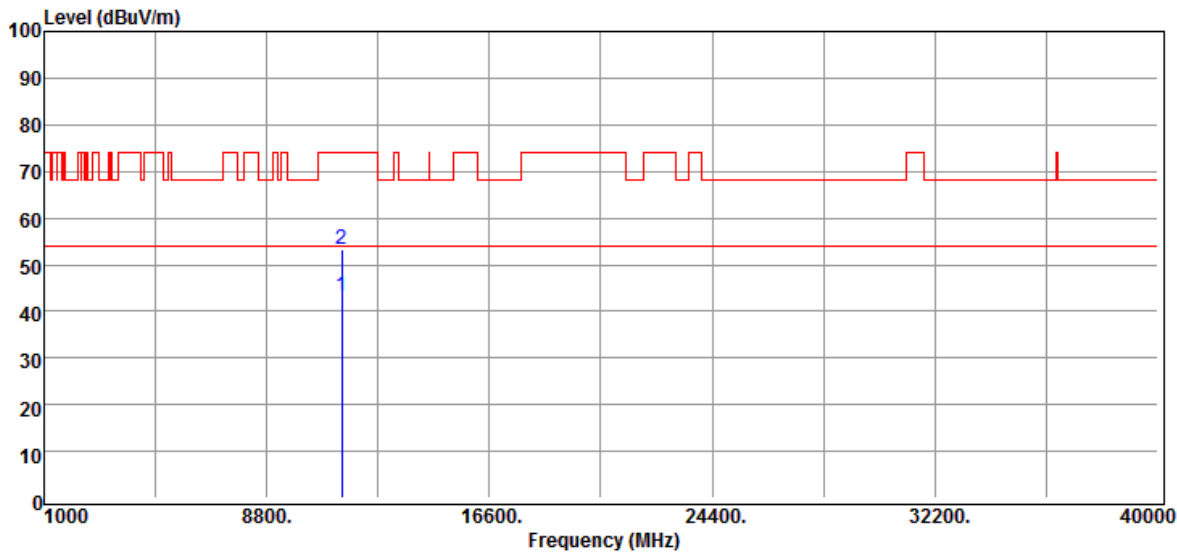
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	31.70	13.13	44.83	54.00	-9.17
11440.00	Peak	42.34	13.13	55.47	74.00	-18.53

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Operation Mode	:802.11a / Band3/4	Test Date	:2018-08-17
Test Mode	:Tx CH 144	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Jerry



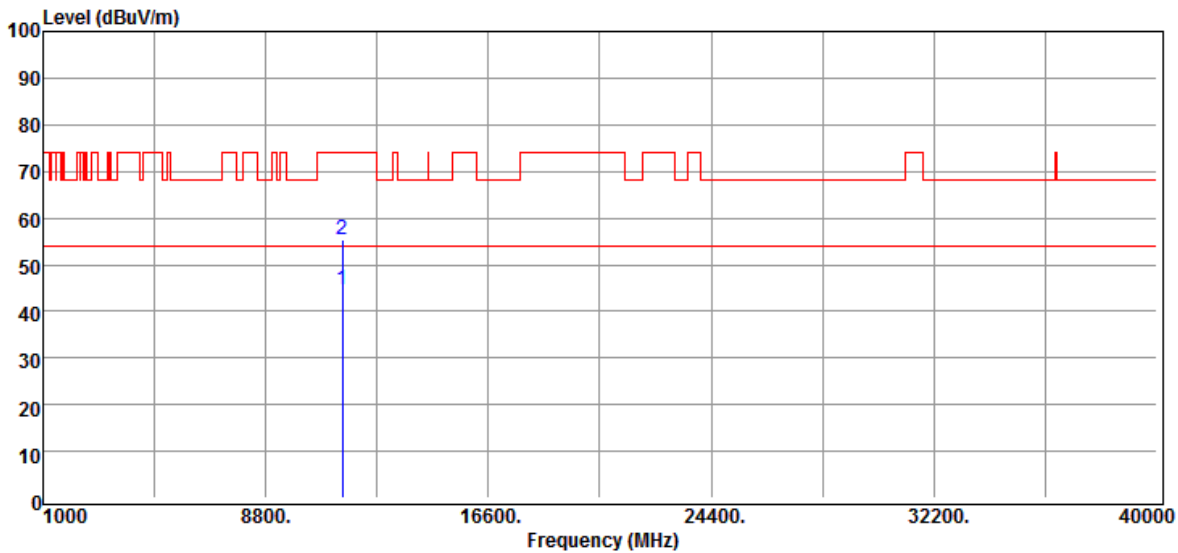
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	30.18	13.13	43.31	54.00	-10.69
11440.00	Peak	40.26	13.13	53.39	74.00	-20.61

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



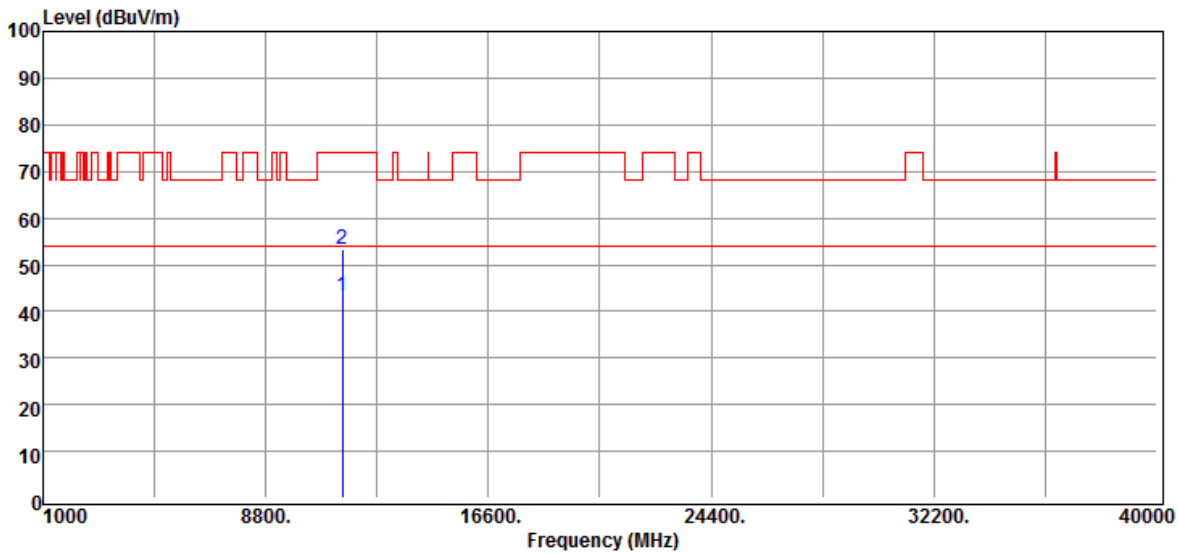
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	31.36	13.32	44.68	54.00	-9.32
11490.00	Peak	42.13	13.32	55.45	74.00	-18.55

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



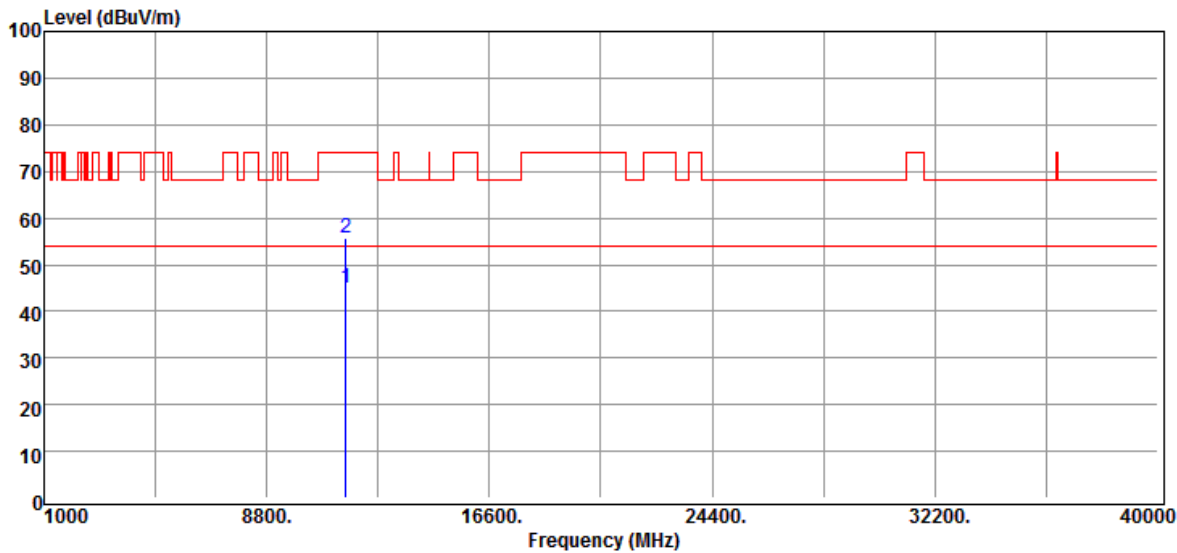
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	30.02	13.32	43.34	54.00	-10.66
11490.00	Peak	39.83	13.32	53.15	74.00	-20.85

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



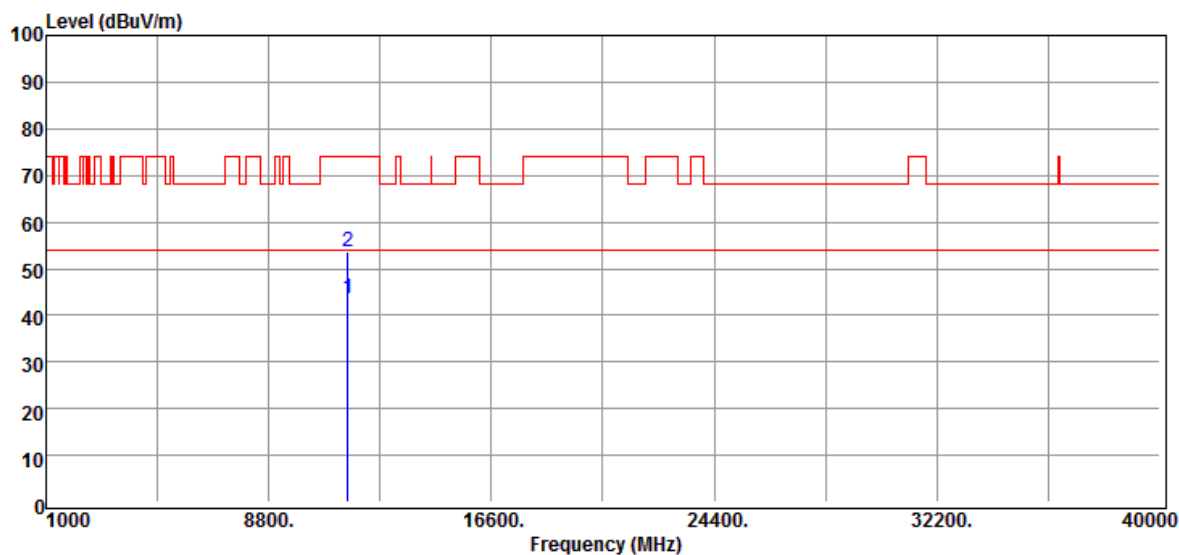
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	31.84	13.01	44.85	54.00	-9.15
11570.00	Peak	42.70	13.01	55.71	74.00	-18.29

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



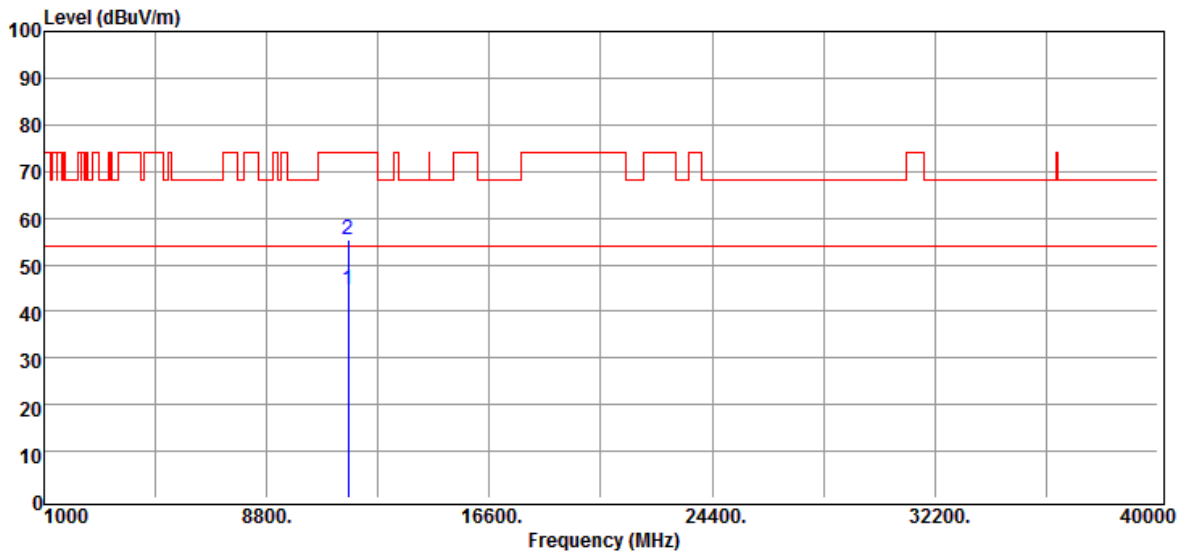
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	30.58	13.01	43.59	54.00	-10.41
11570.00	Peak	40.70	13.01	53.71	74.00	-20.29

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



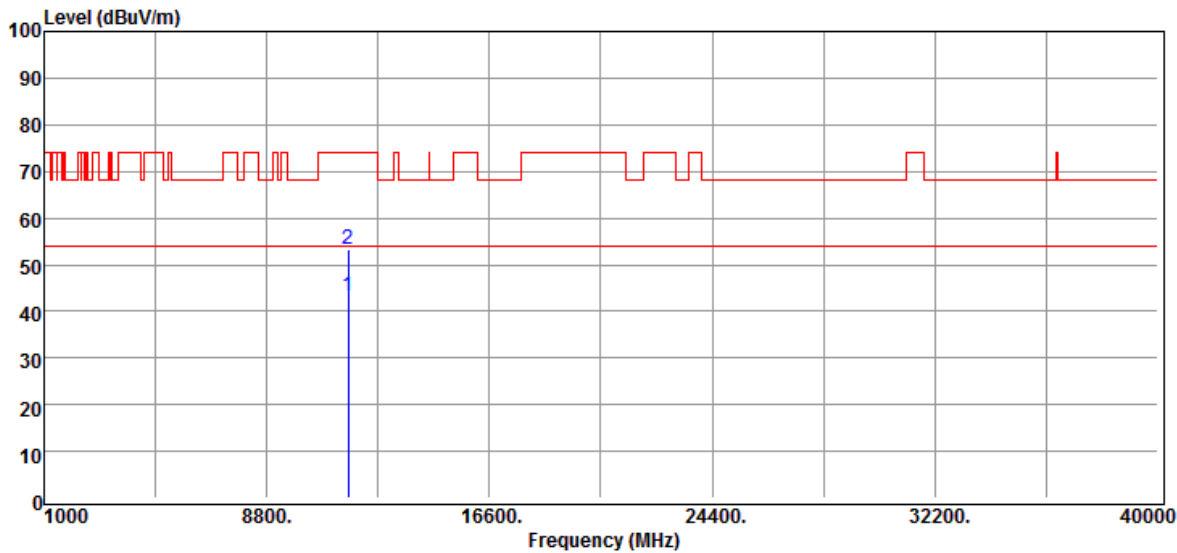
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	31.74	12.95	44.69	54.00	-9.31
11650.00	Peak	42.54	12.95	55.49	74.00	-18.51

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	30.38	12.95	43.33	54.00	-10.67
11650.00	Peak	40.40	12.95	53.35	74.00	-20.65

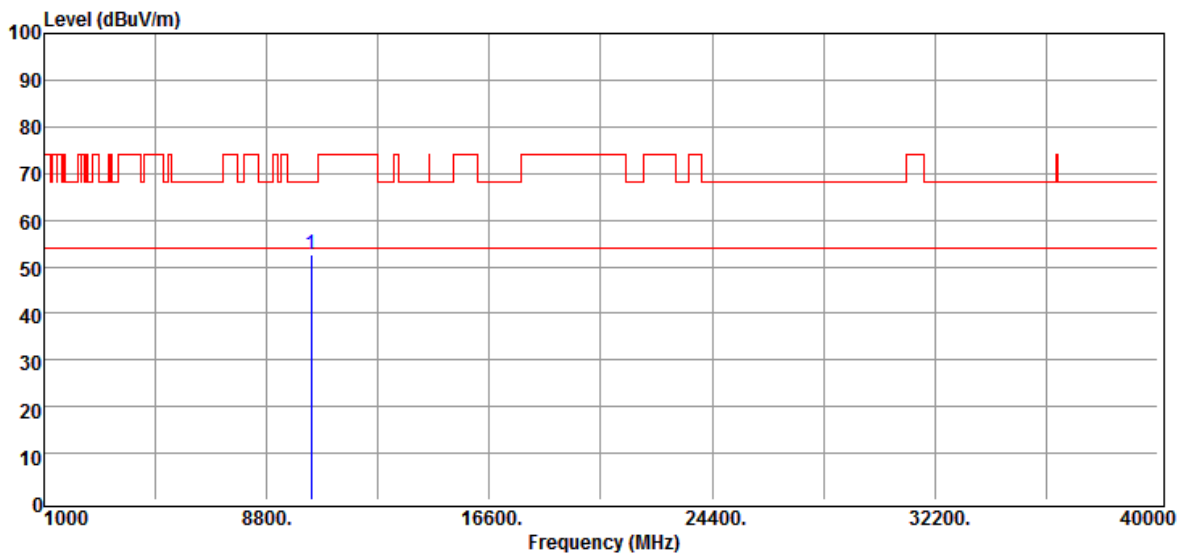
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



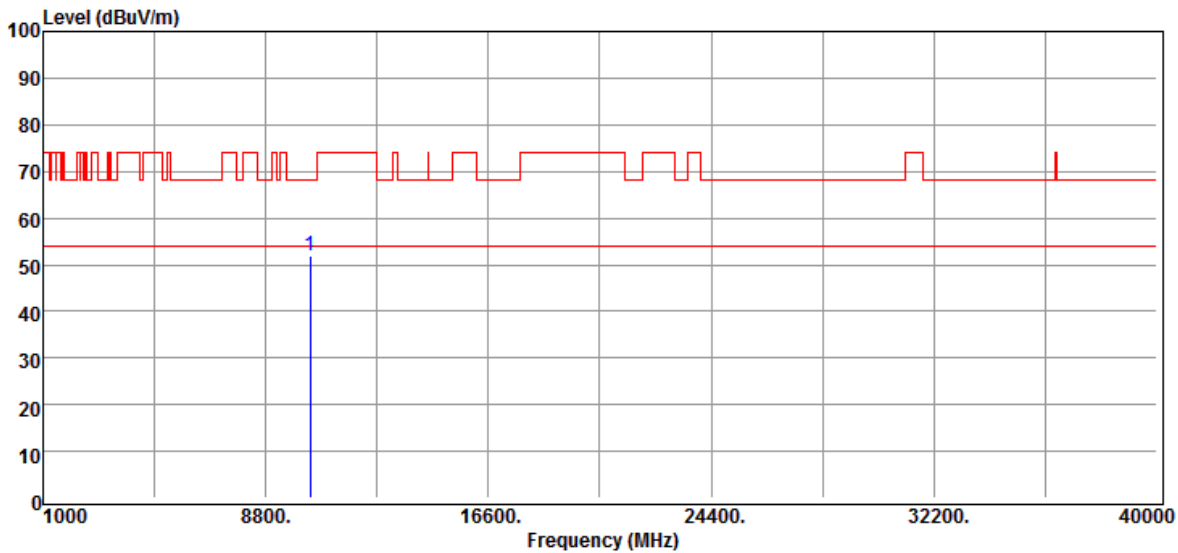
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	40.11	12.41	52.52	68.20	-15.68

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Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



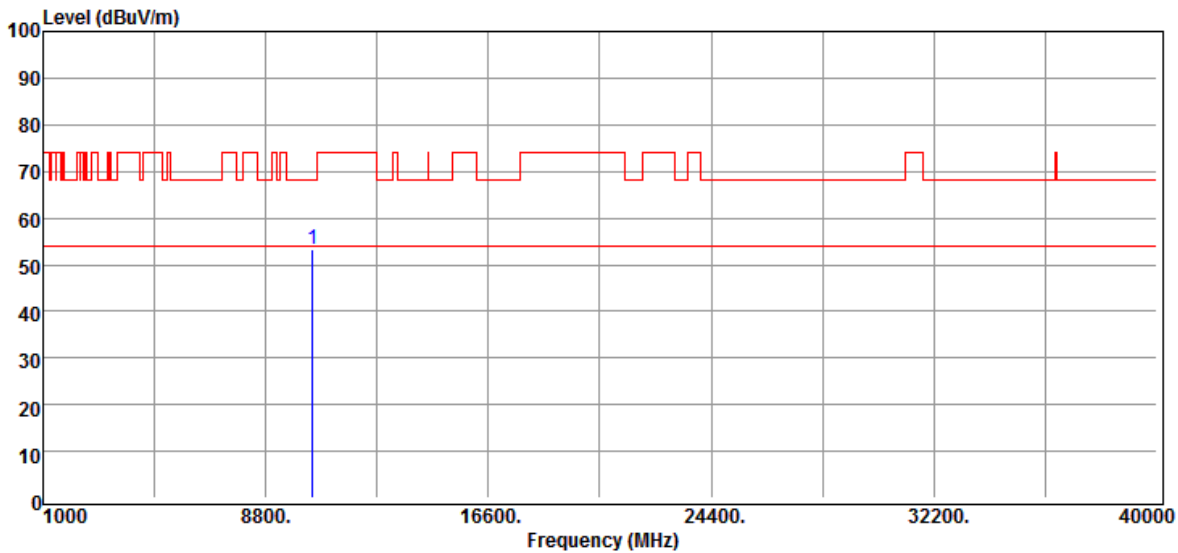
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	39.62	12.41	52.03	68.20	-16.17

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Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



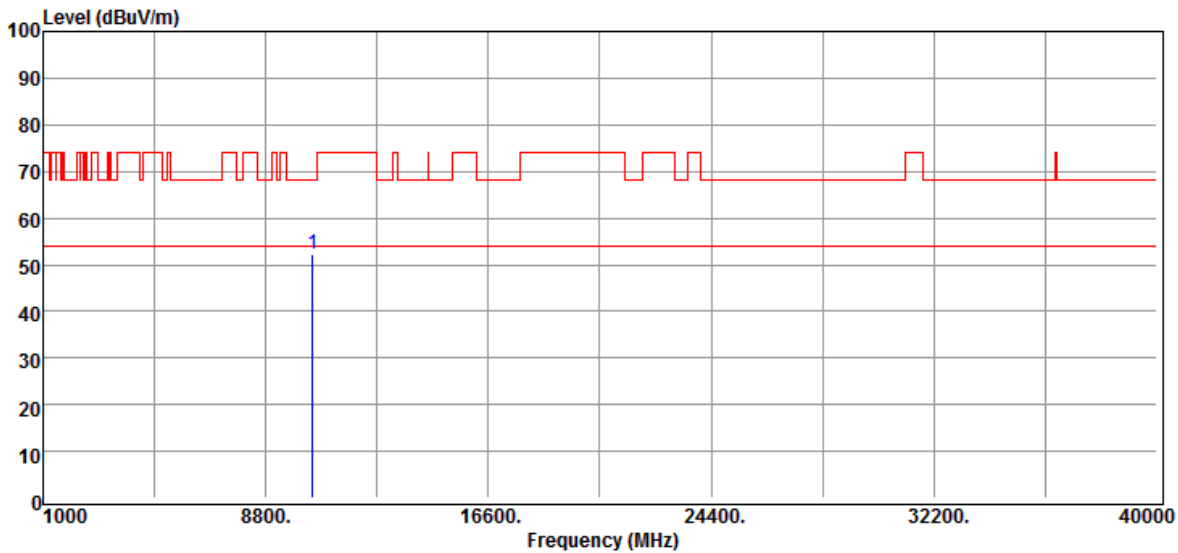
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	40.60	12.52	53.12	68.20	-15.08

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Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



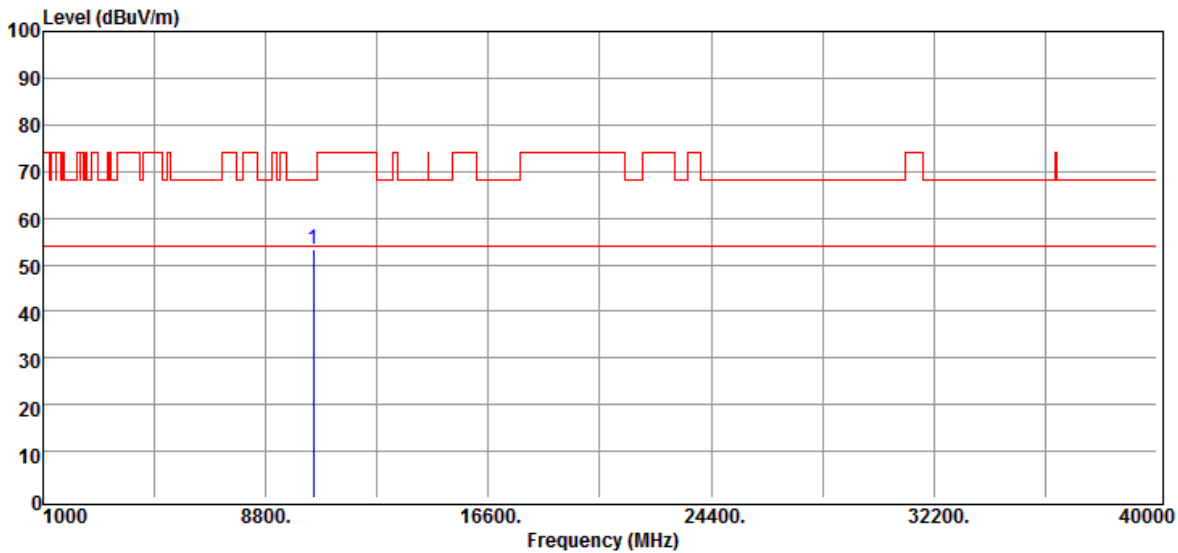
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	39.66	12.52	52.18	68.20	-16.02

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Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Jerry



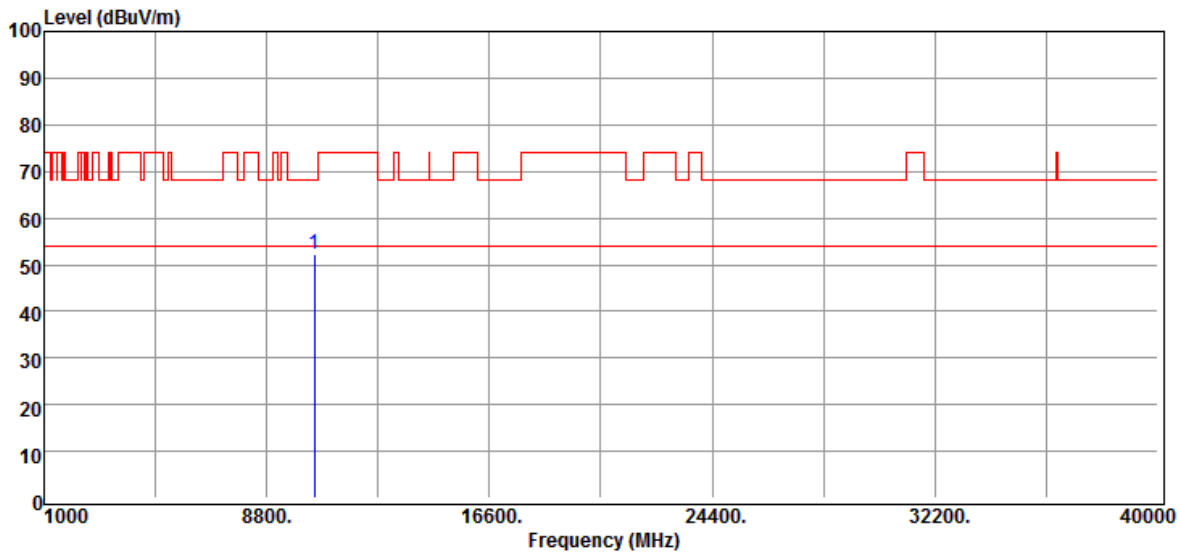
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	40.83	12.58	53.41	68.20	-14.79

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Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	39.74	12.58	52.32	68.20	-15.88

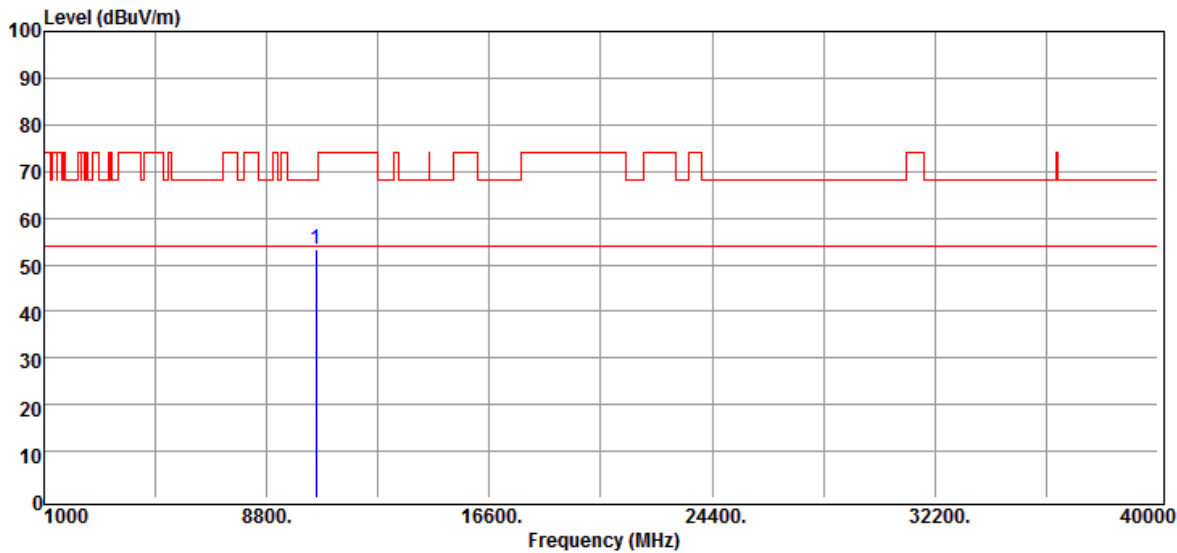
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Jerry



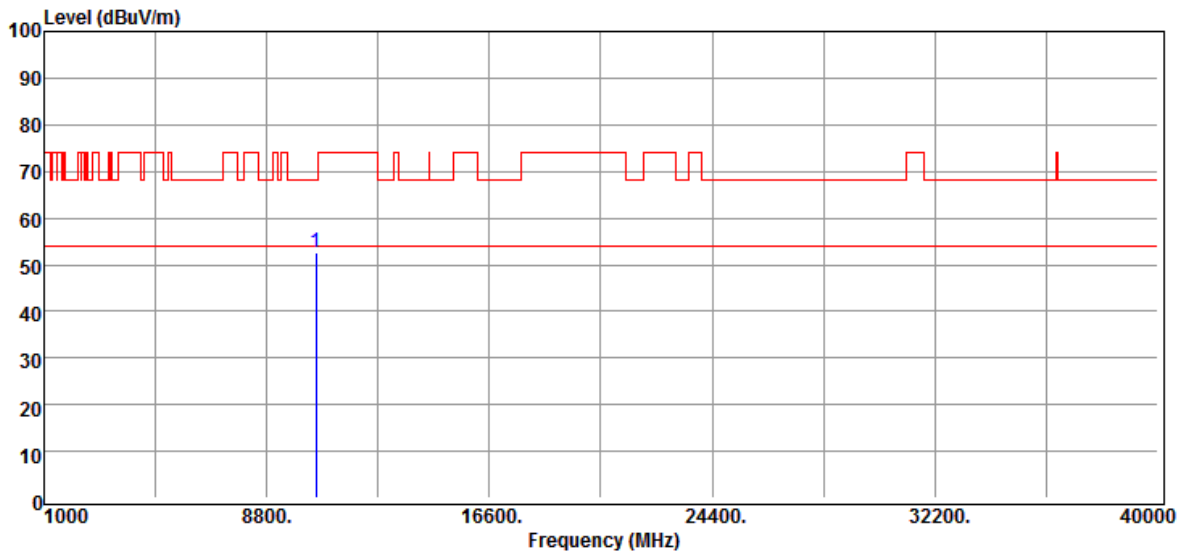
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	40.87	12.55	53.42	68.20	-14.78

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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Jerry



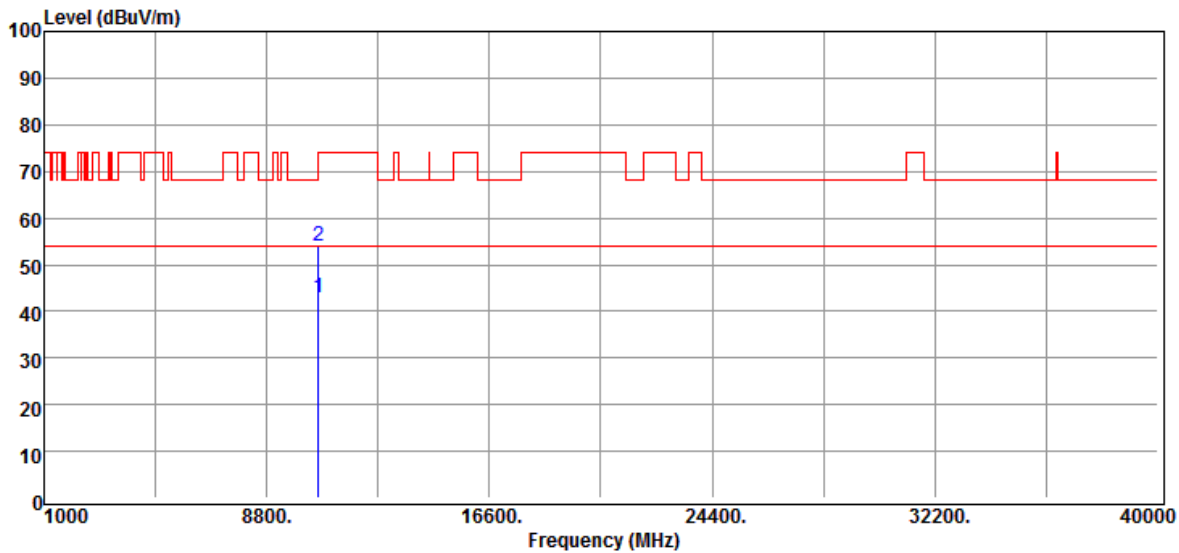
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	39.88	12.55	52.43	68.20	-15.77

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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	30.69	12.30	42.99	54.00	-11.01
10600.00	Peak	41.56	12.30	53.86	74.00	-20.14

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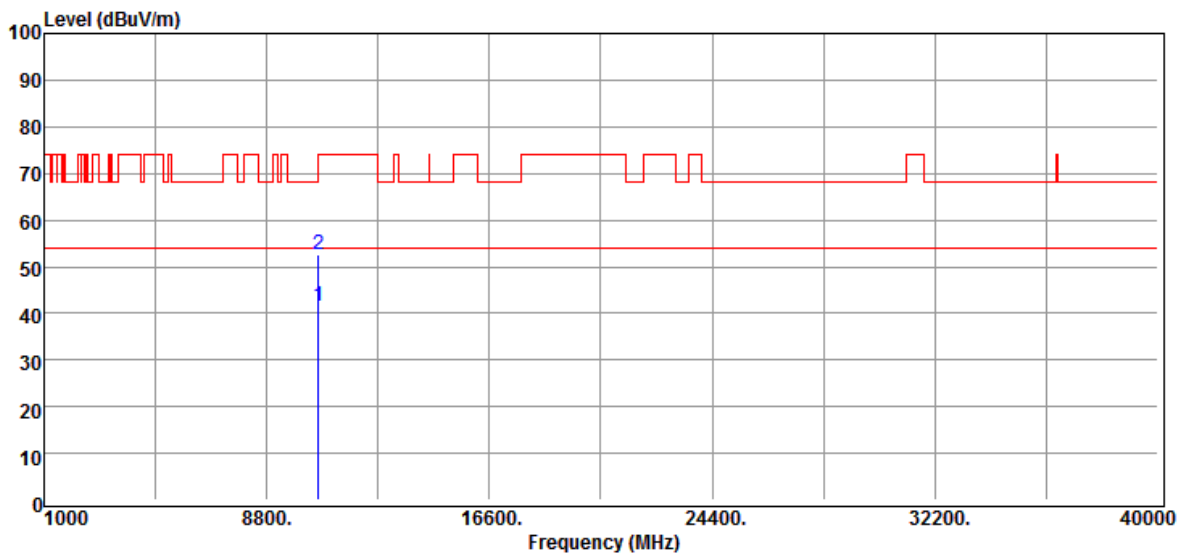
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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



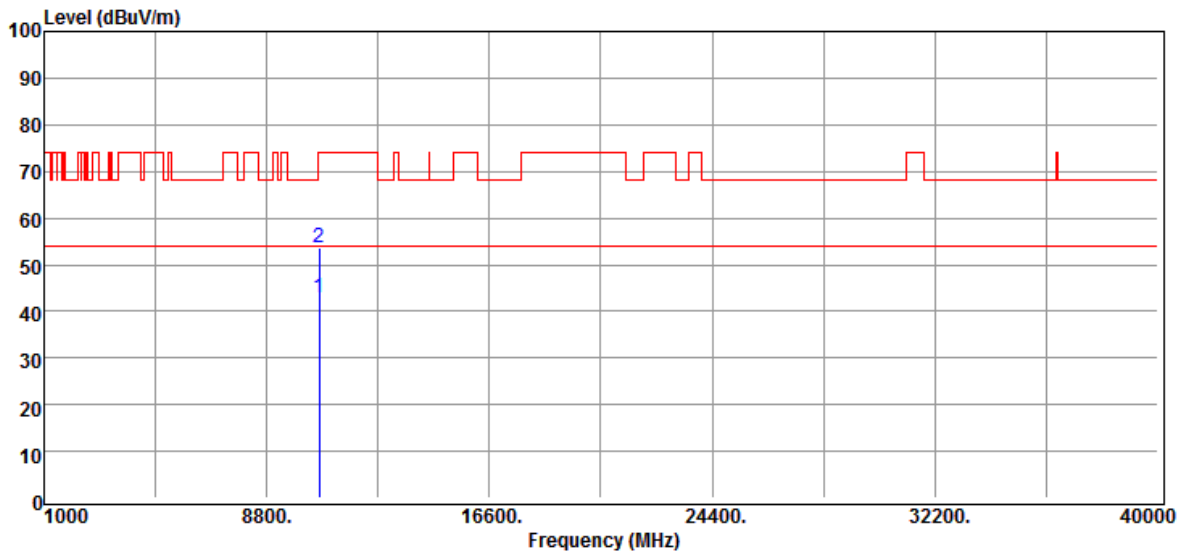
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	29.38	12.30	41.68	54.00	-12.32
10600.00	Peak	40.22	12.30	52.52	74.00	-21.48

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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



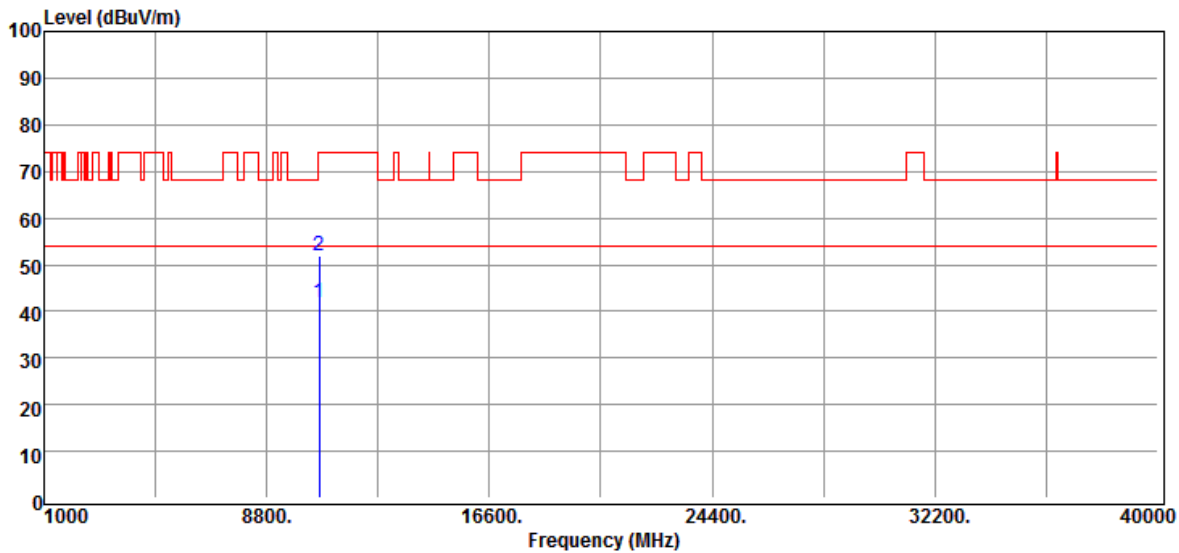
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	30.88	12.04	42.92	54.00	-11.08
10640.00	Peak	41.59	12.04	53.63	74.00	-20.37

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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	29.73	12.04	41.77	54.00	-12.23
10640.00	Peak	40.02	12.04	52.06	74.00	-21.94

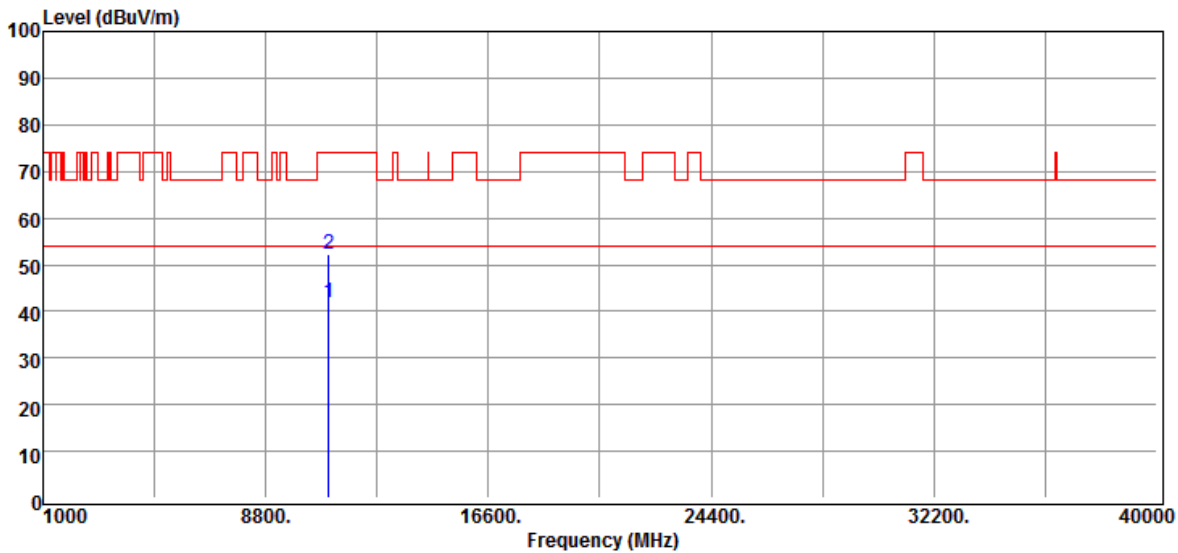
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	30.88	10.96	41.84	54.00	-12.16
11000.00	Peak	41.29	10.96	52.25	74.00	-21.75

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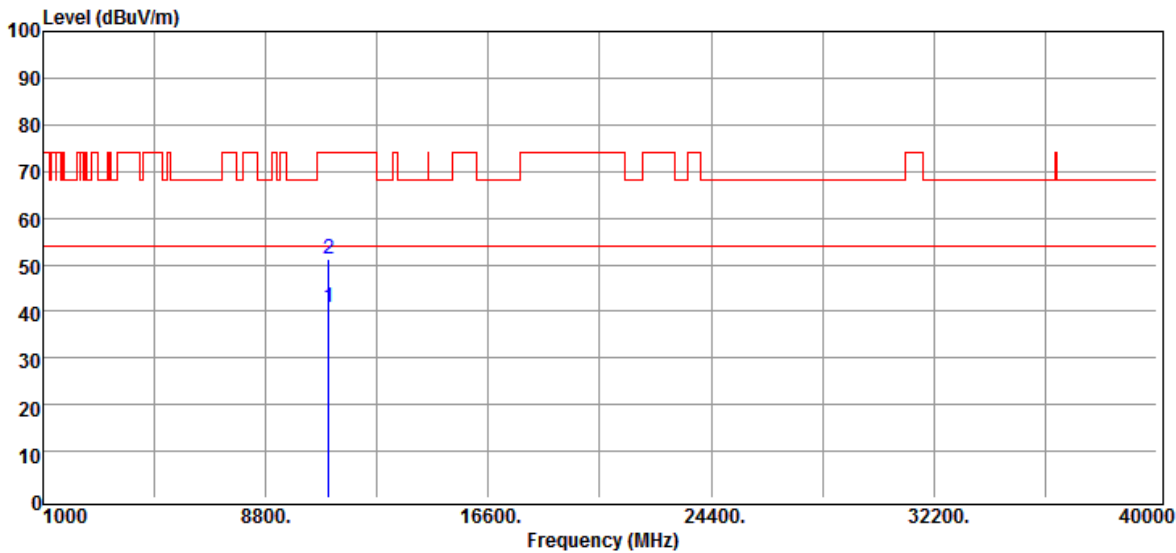
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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



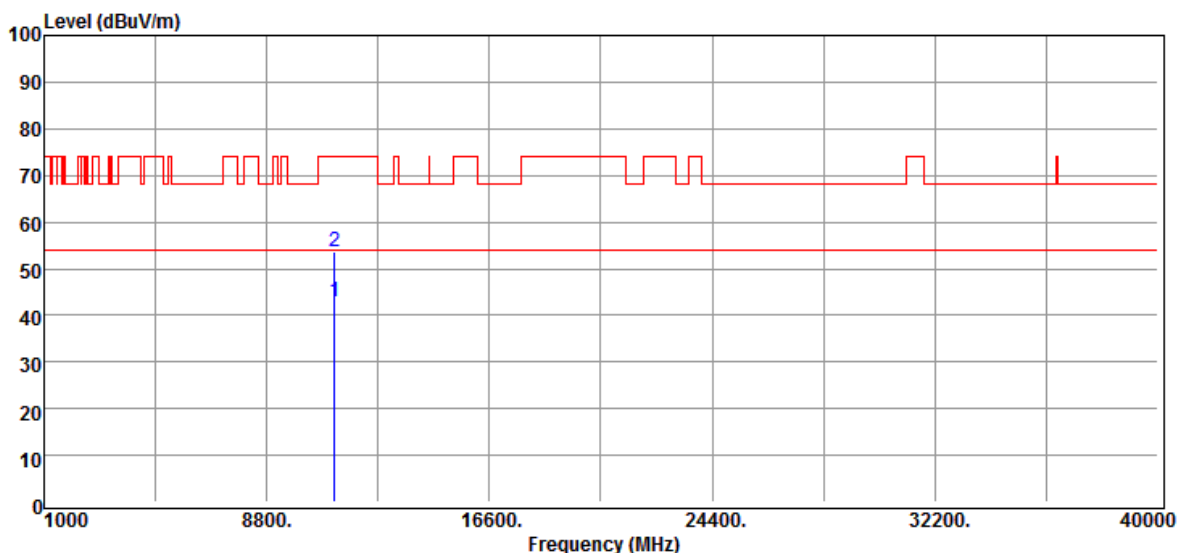
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	29.90	10.96	40.86	54.00	-13.14
11000.00	Peak	40.11	10.96	51.07	74.00	-22.93

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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



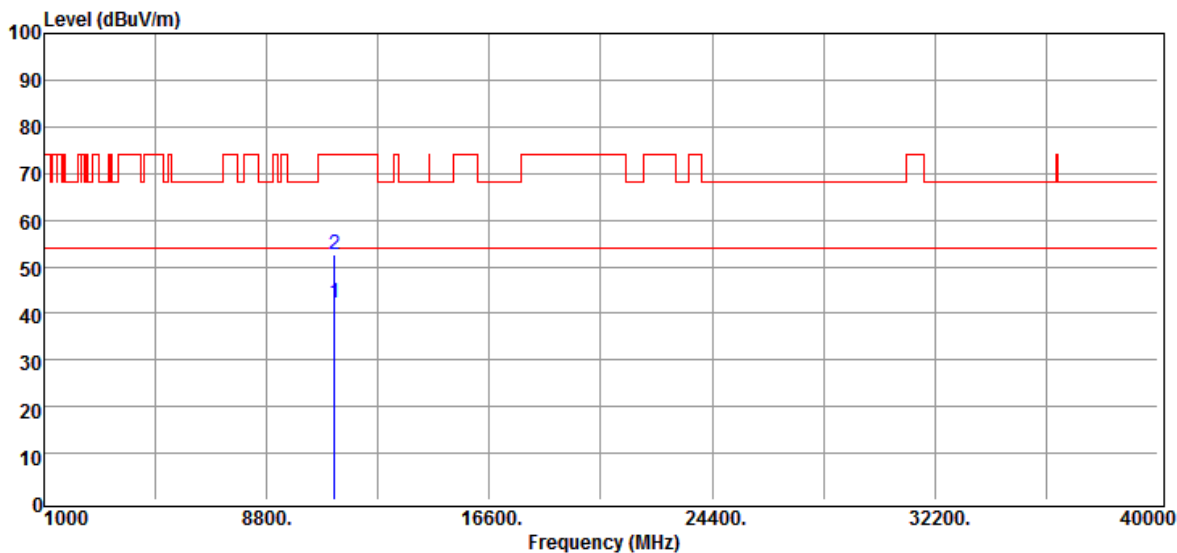
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	30.94	12.11	43.05	54.00	-10.95
11160.00	Peak	41.54	12.11	53.65	74.00	-20.35

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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



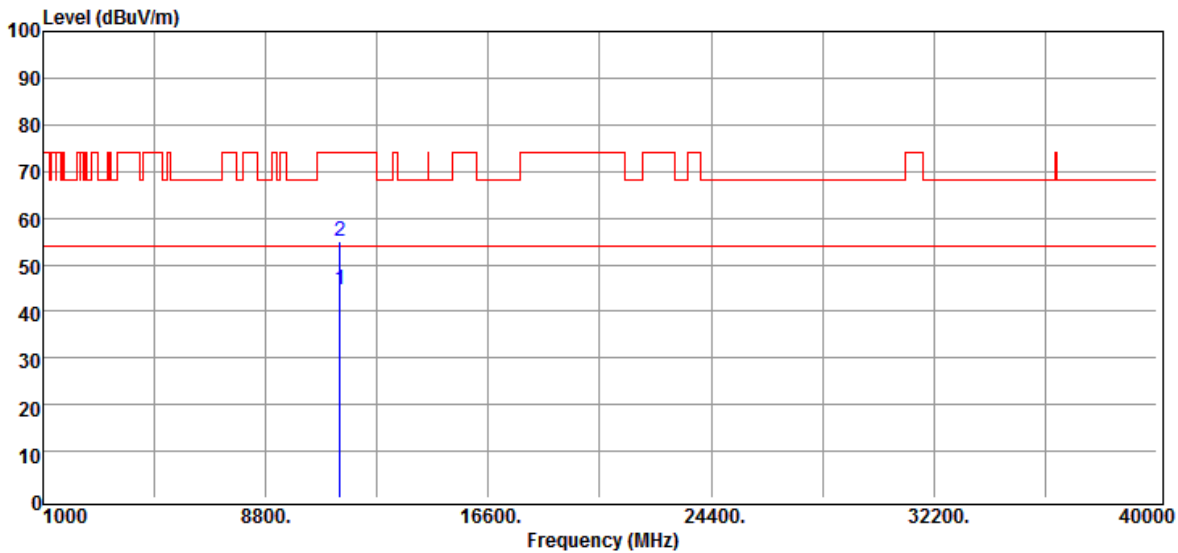
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	30.02	12.11	42.13	54.00	-11.87
11160.00	Peak	40.53	12.11	52.64	74.00	-21.36

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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	31.64	12.98	44.62	54.00	-9.38
11400.00	Peak	41.99	12.98	54.97	74.00	-19.03

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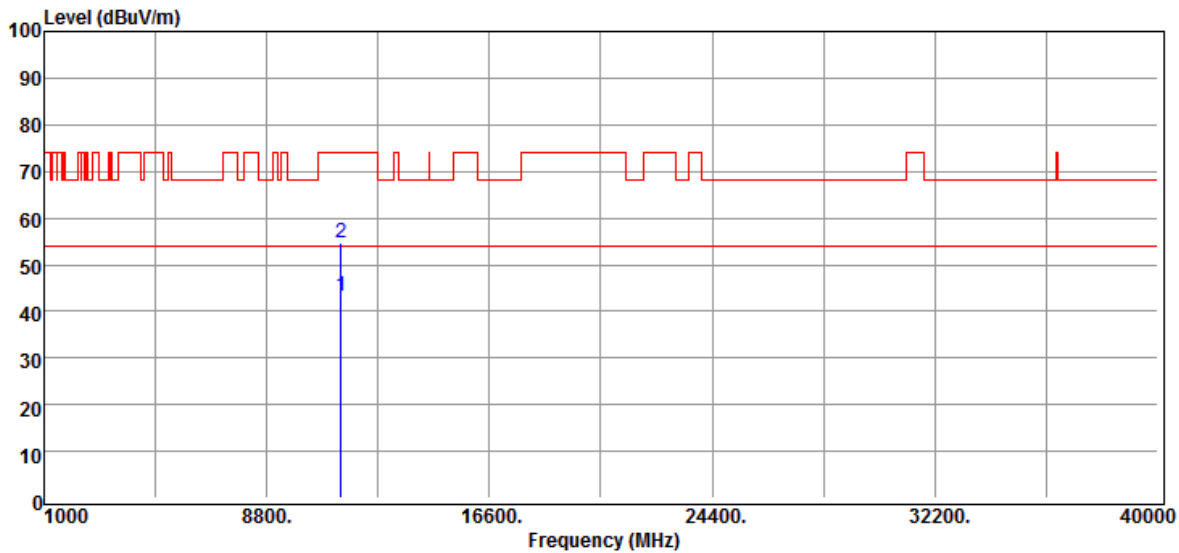
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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



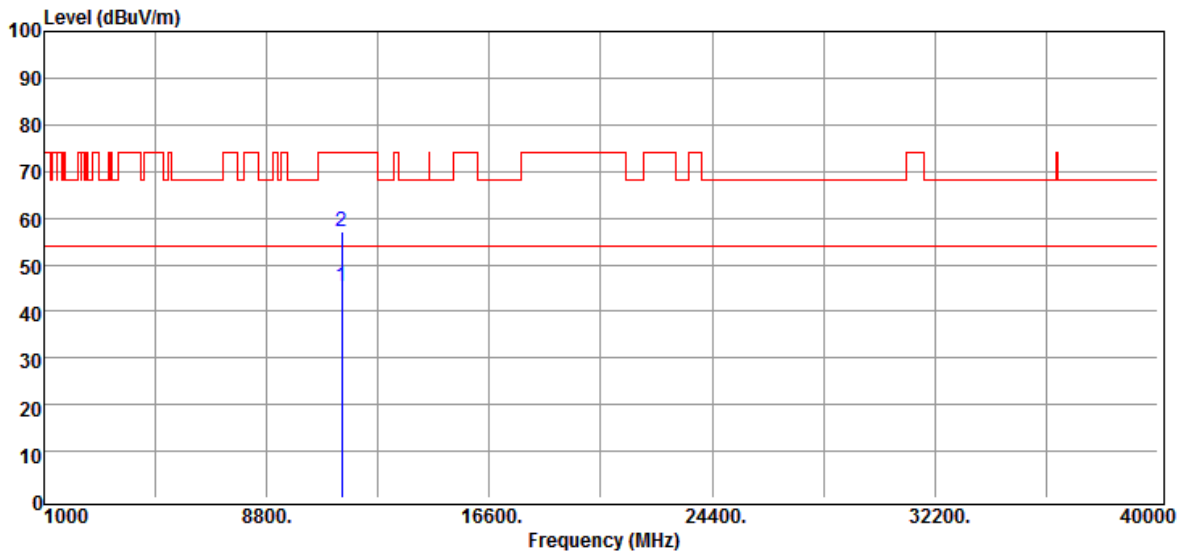
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	30.13	12.98	43.11	54.00	-10.89
11400.00	Peak	41.67	12.98	54.65	74.00	-19.35

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Operation Mode	:802.11n20 / Band3/4	Test Date	:2018-08-17
Test Mode	:Tx CH 144	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Jerry



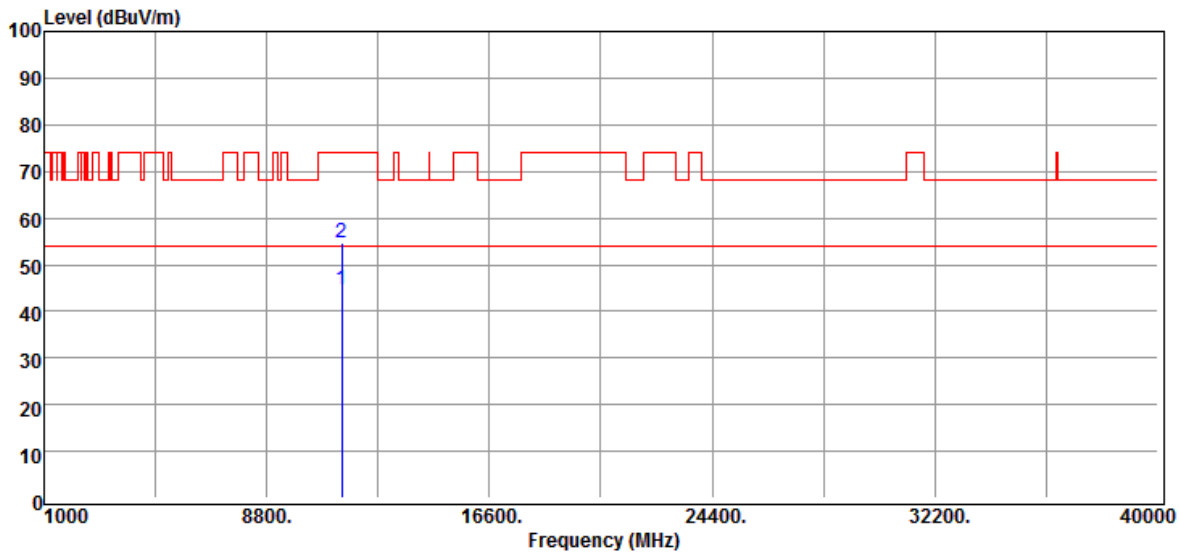
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	32.14	13.13	45.27	54.00	-8.73
11440.00	Peak	43.88	13.13	57.01	74.00	-16.99

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Operation Mode	:802.11n20 / Band3/4	Test Date	:2018-08-17
Test Mode	:Tx CH 144	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	31.56	13.13	44.69	54.00	-9.31
11440.00	Peak	41.64	13.13	54.77	74.00	-19.23

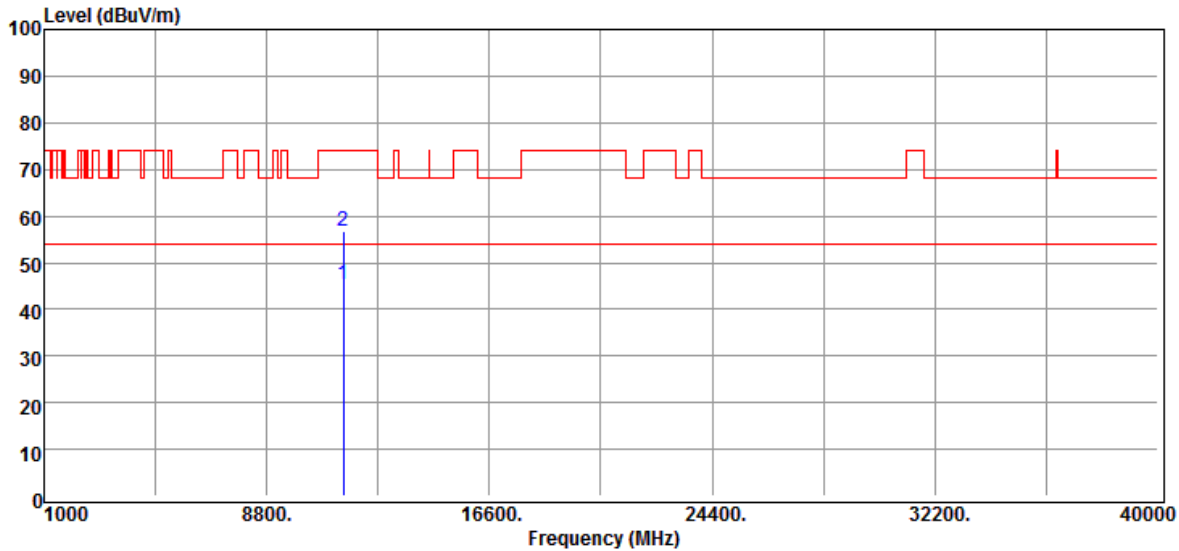
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



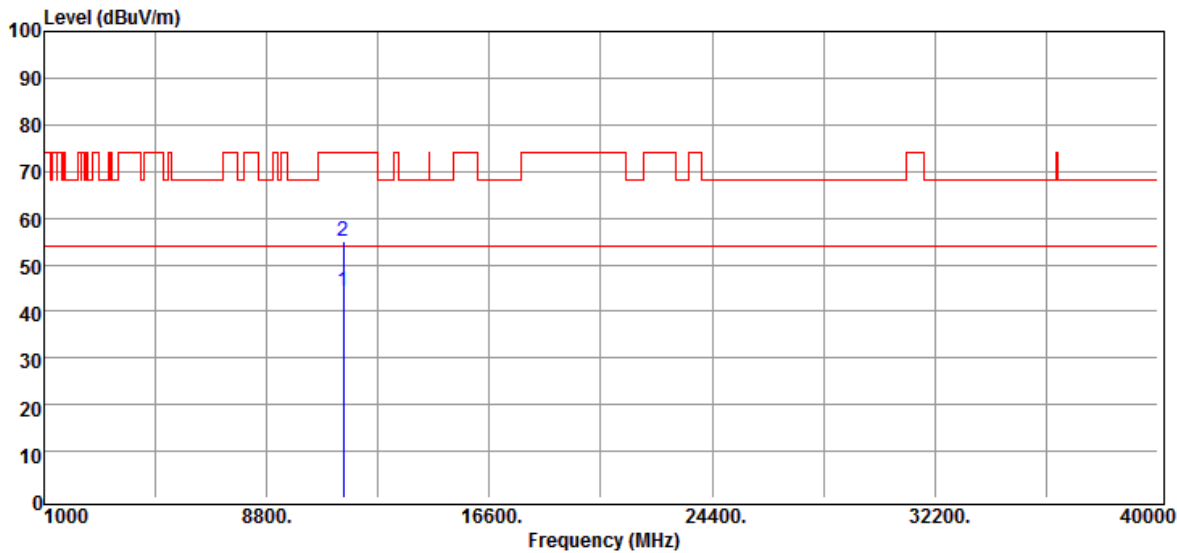
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	31.98	13.32	45.30	54.00	-8.70
11490.00	Peak	43.27	13.32	56.59	74.00	-17.41

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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	31.10	13.32	44.42	54.00	-9.58
11490.00	Peak	41.78	13.32	55.10	74.00	-18.90

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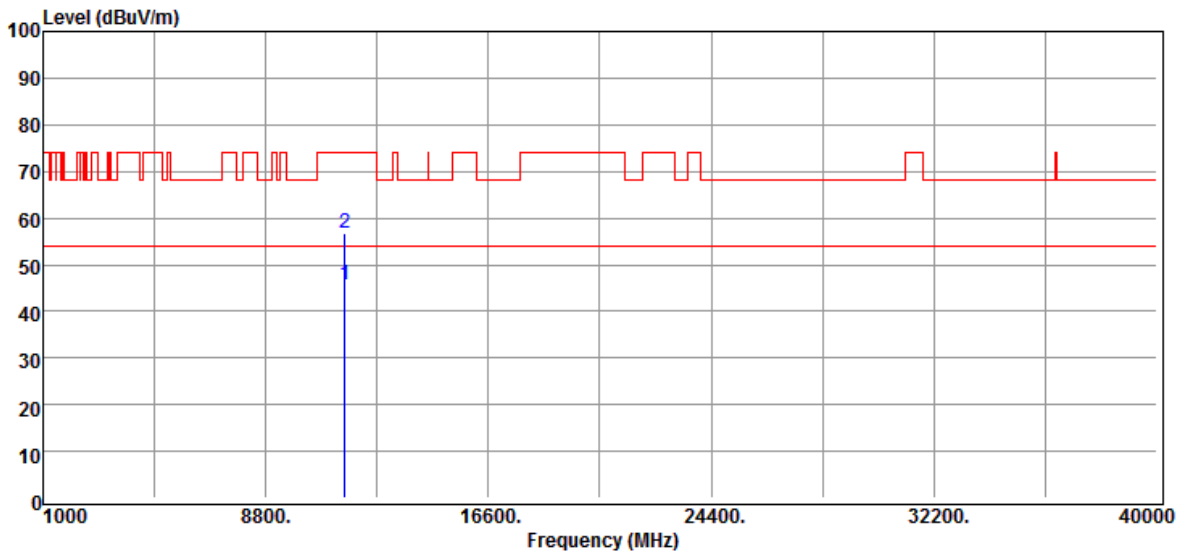
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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



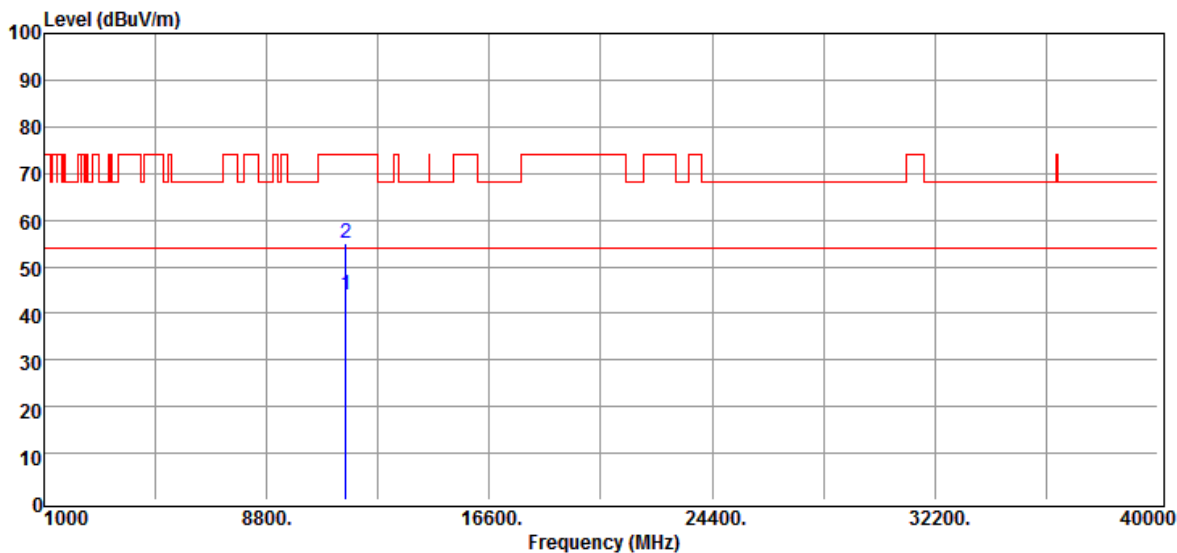
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	32.54	13.01	45.55	54.00	-8.45
11570.00	Peak	43.87	13.01	56.88	74.00	-17.12

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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



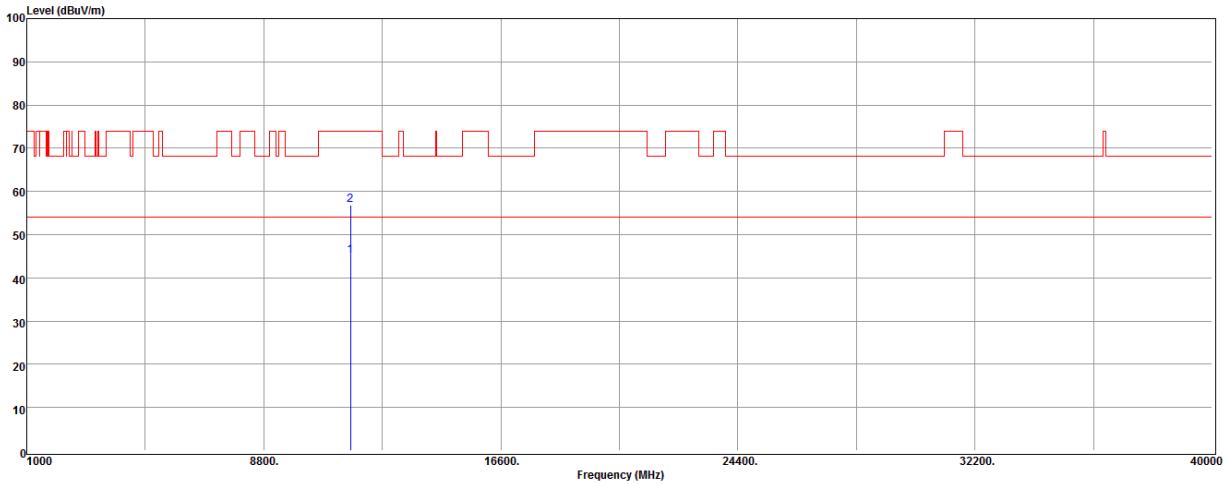
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	30.99	13.01	44.00	54.00	-10.00
11570.00	Peak	41.90	13.01	54.91	74.00	-19.09

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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	32.24	12.95	45.19	54.00	-8.81
11650.00	Peak	43.99	12.95	56.94	74.00	-17.06

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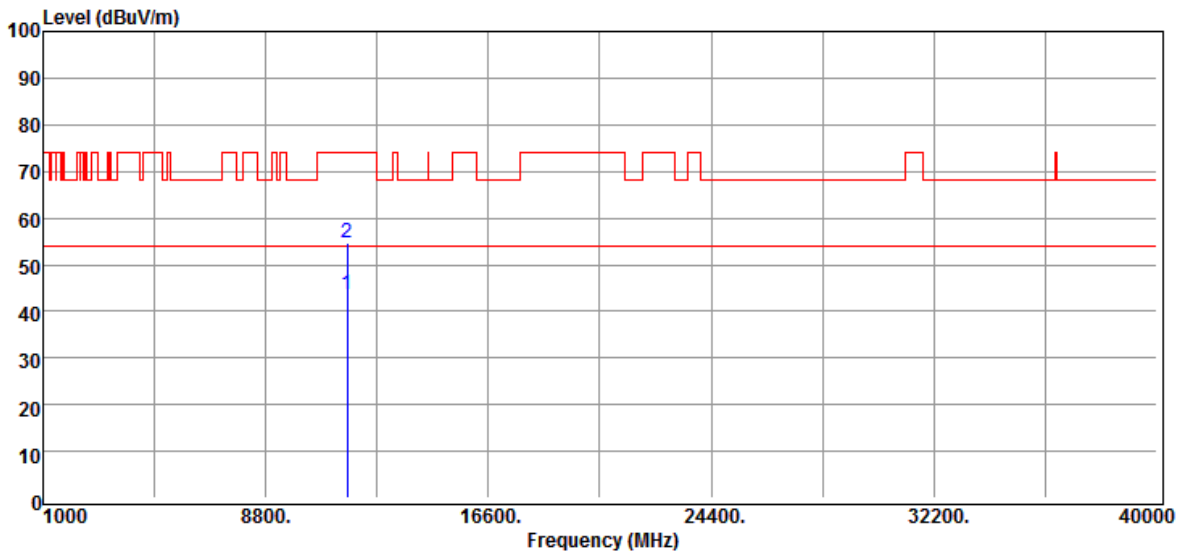
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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	30.77	12.95	43.72	54.00	-10.28
11650.00	Peak	41.77	12.95	54.72	74.00	-19.28

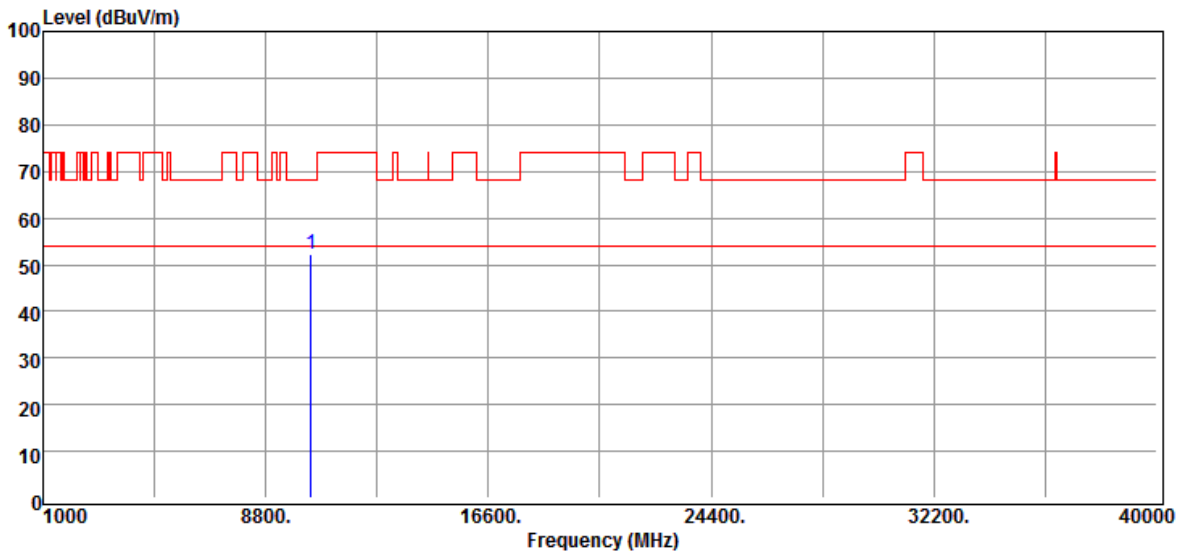
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Jerry



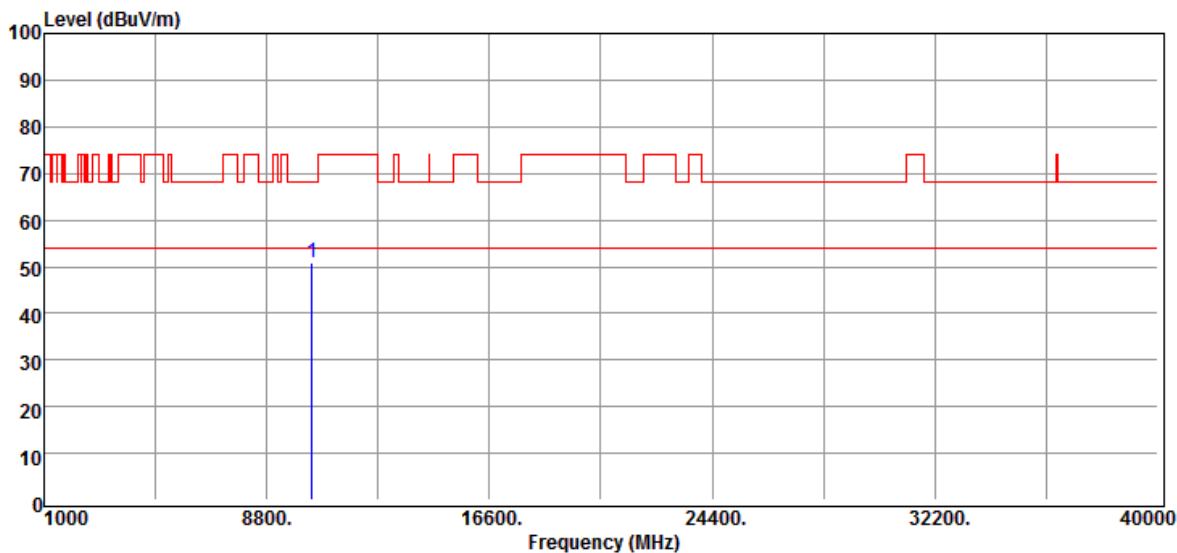
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	39.68	12.44	52.12	68.20	-16.08

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Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Jerry



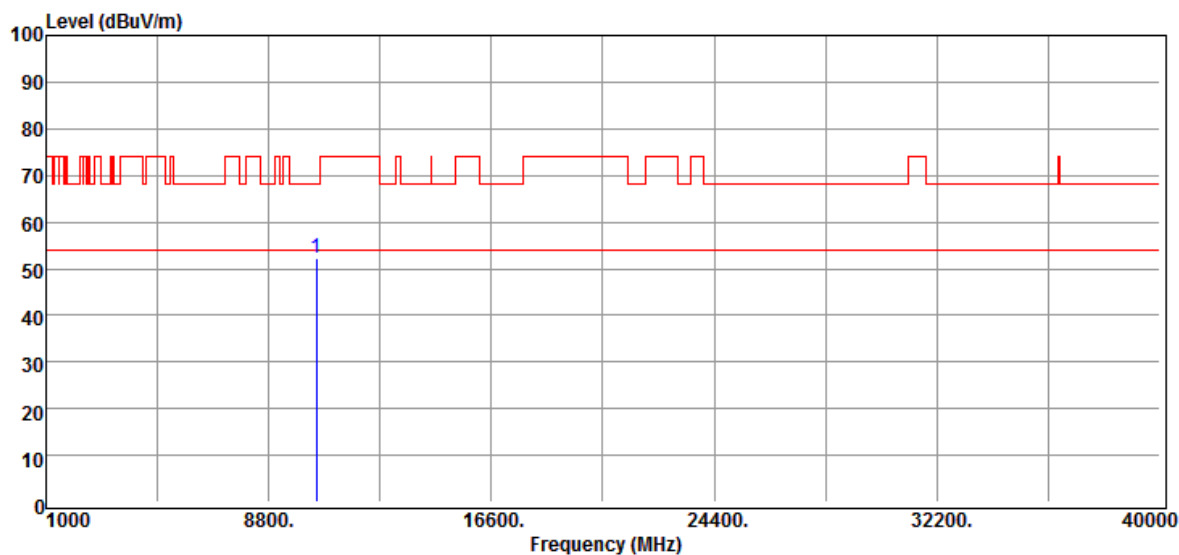
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	38.33	12.44	50.77	68.20	-17.43

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Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	39.81	12.55	52.36	68.20	-15.84

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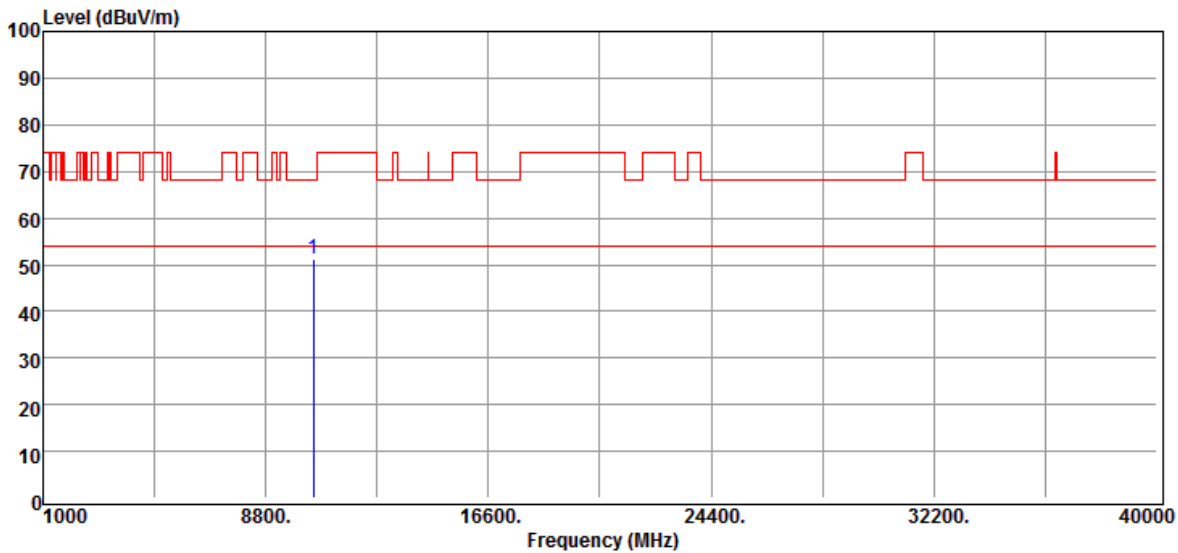
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Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5230 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	38.65	12.55	51.20	68.20	-17.00

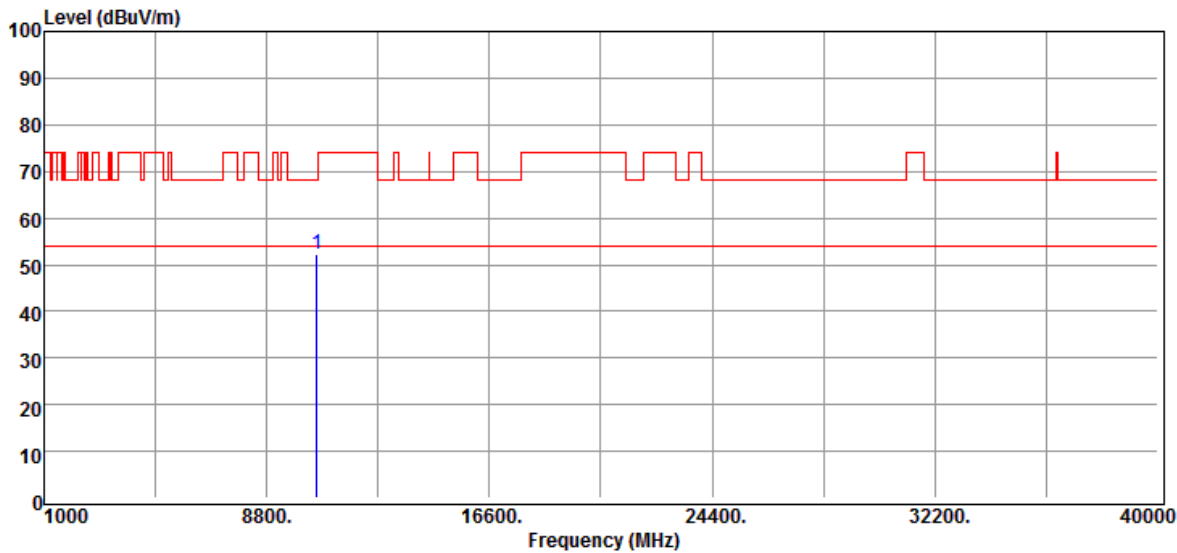
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Jerry



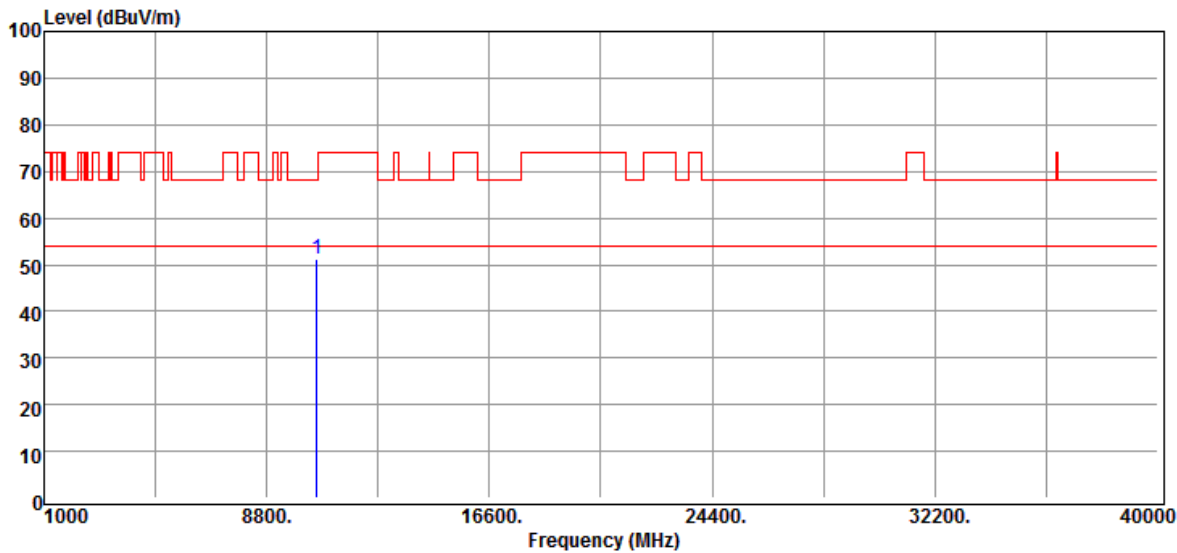
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	39.81	12.49	52.30	68.20	-15.90

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Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5270 MHz	Engineer	:Jerry



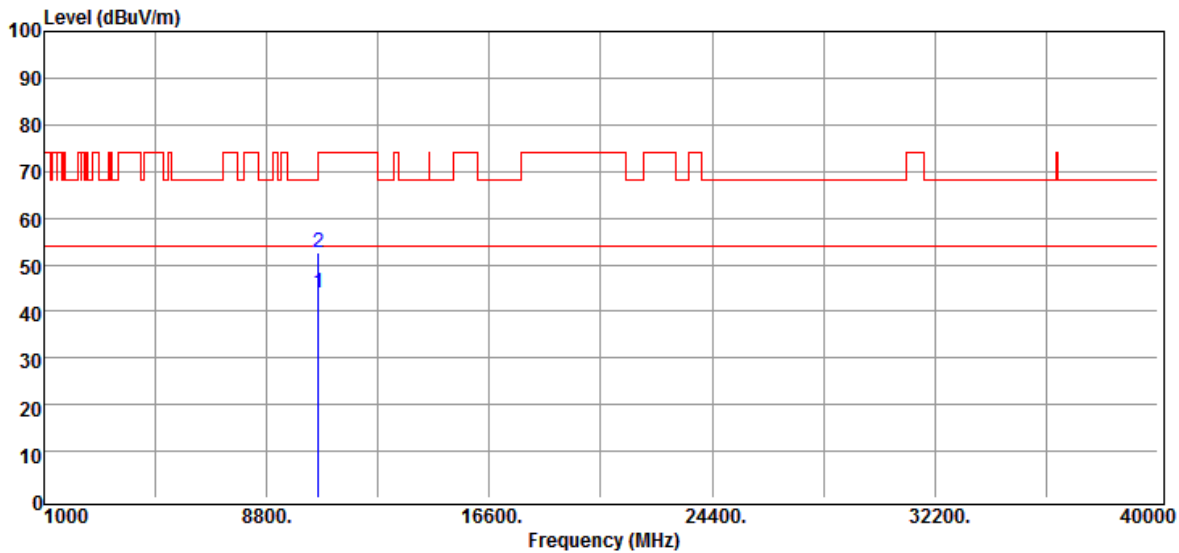
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	38.72	12.49	51.21	68.20	-16.99

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Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Jerry



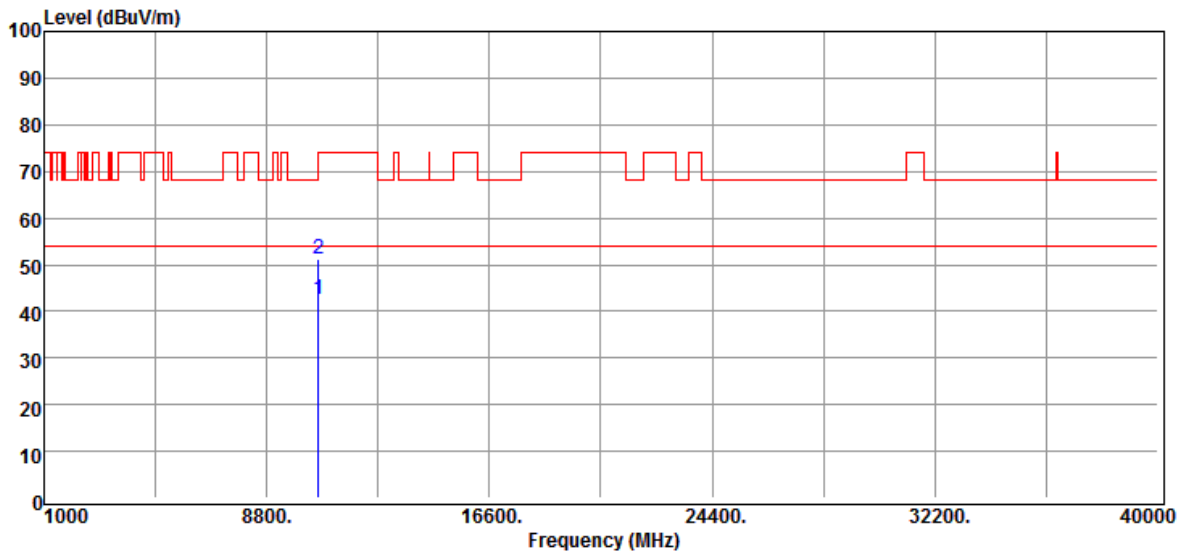
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	31.69	12.17	43.86	54.00	-10.14
10620.00	Peak	40.57	12.17	52.74	74.00	-21.26

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Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	30.33	12.17	42.50	54.00	-11.50
10620.00	Peak	39.12	12.17	51.29	74.00	-22.71

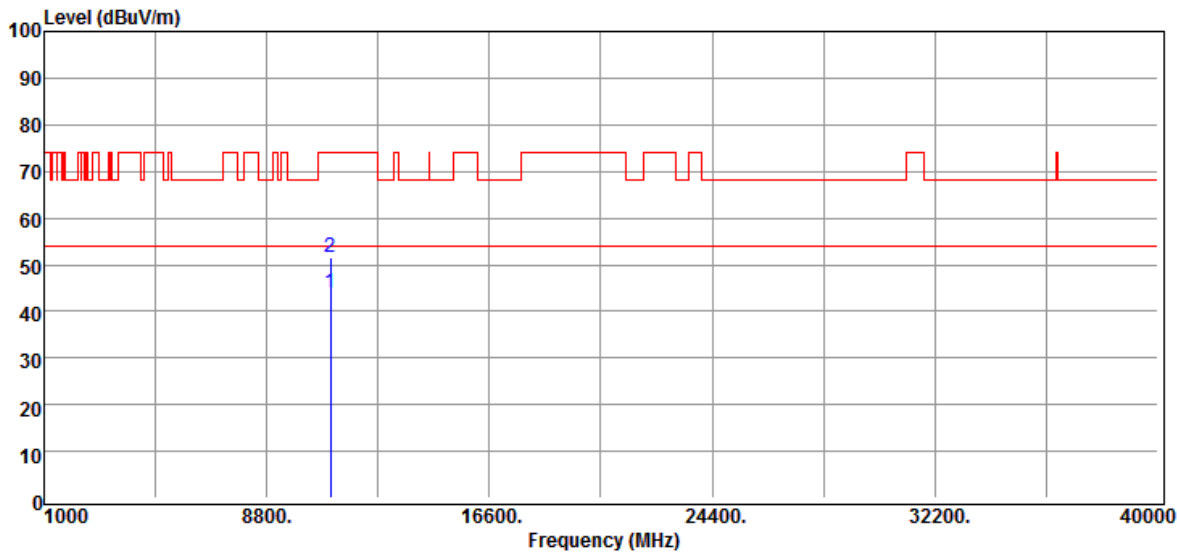
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Jerry



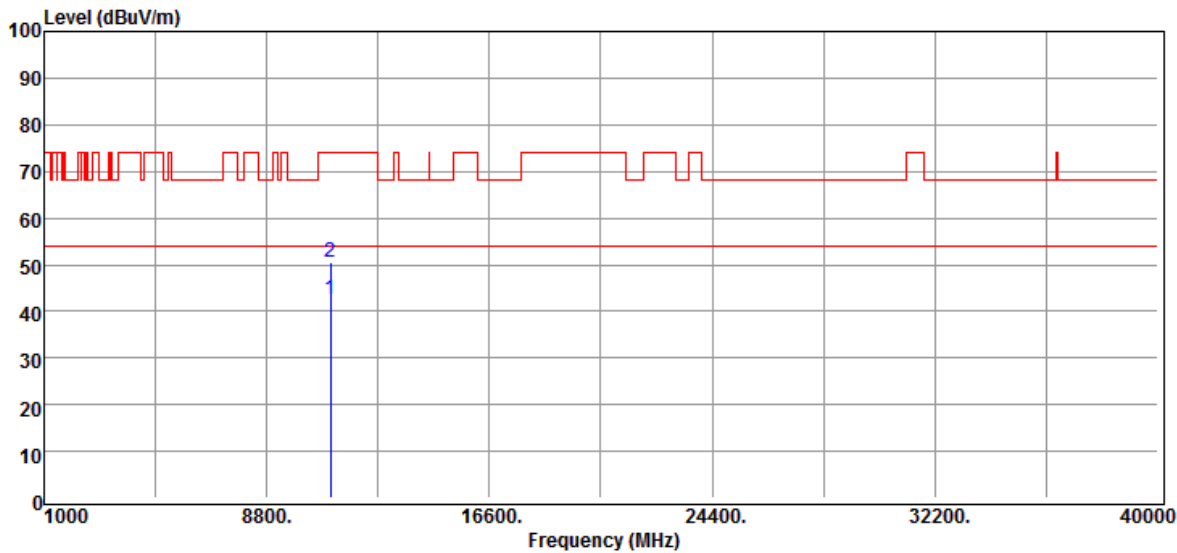
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	32.71	11.10	43.81	54.00	-10.19
11020.00	Peak	40.63	11.10	51.73	74.00	-22.27

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Jerry



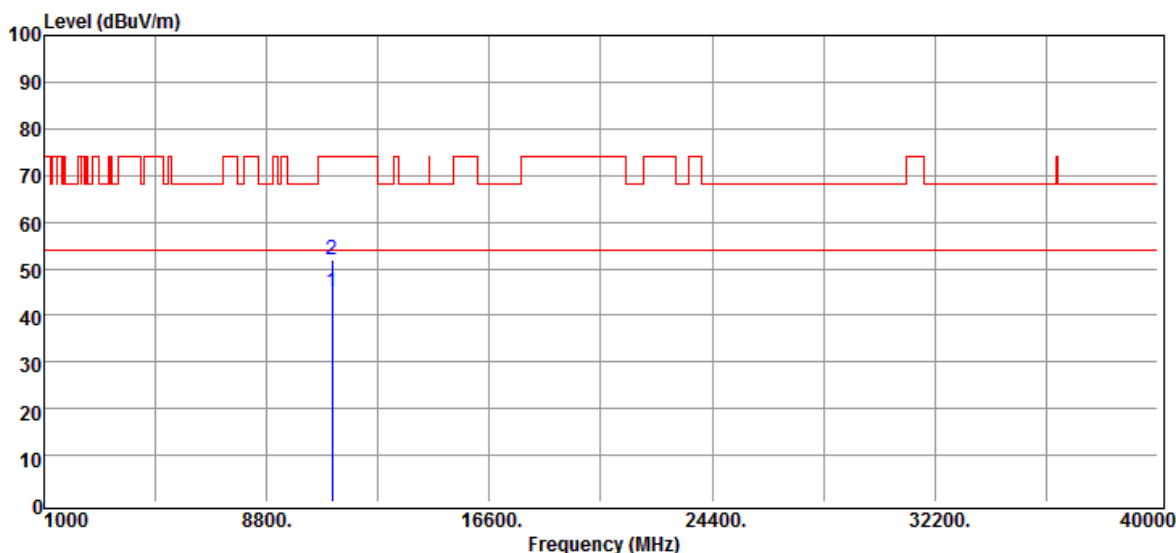
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	31.57	11.10	42.67	54.00	-11.33
11020.00	Peak	39.55	11.10	50.65	74.00	-23.35

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5550 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	33.27	11.63	44.90	54.00	-9.10
11100.00	Peak	40.36	11.63	51.99	74.00	-22.01

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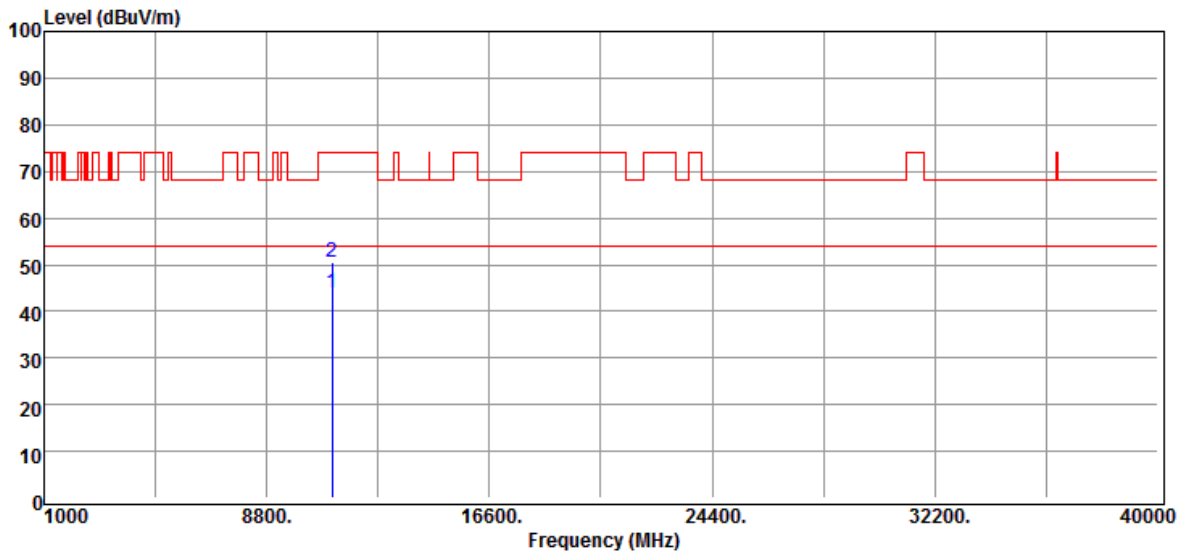
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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5550 MHz	Engineer	:Jerry



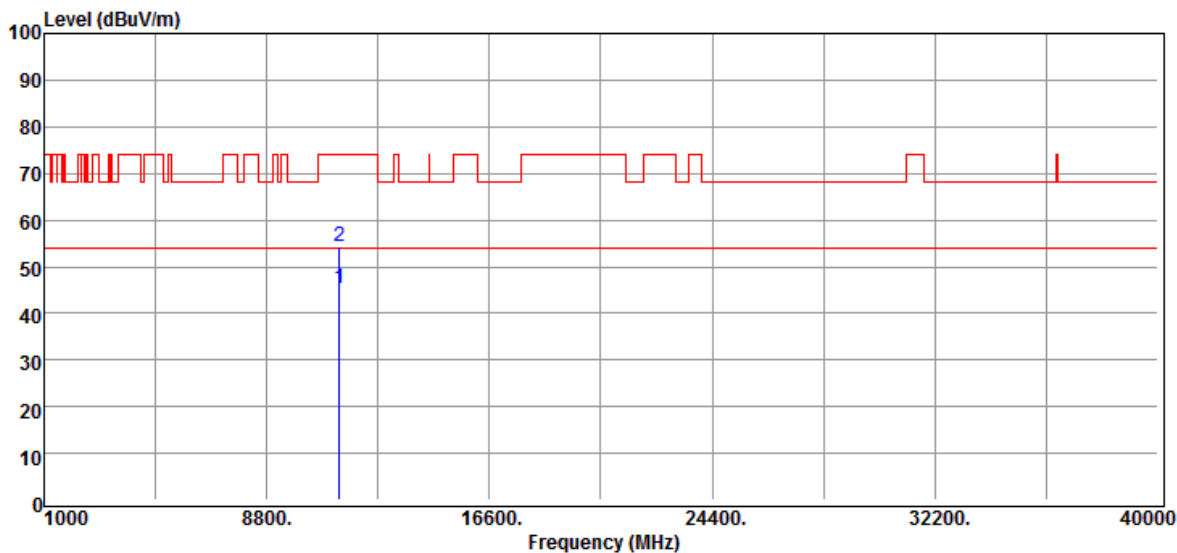
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	32.30	11.63	43.93	54.00	-10.07
11100.00	Peak	38.94	11.63	50.57	74.00	-23.43

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Jerry



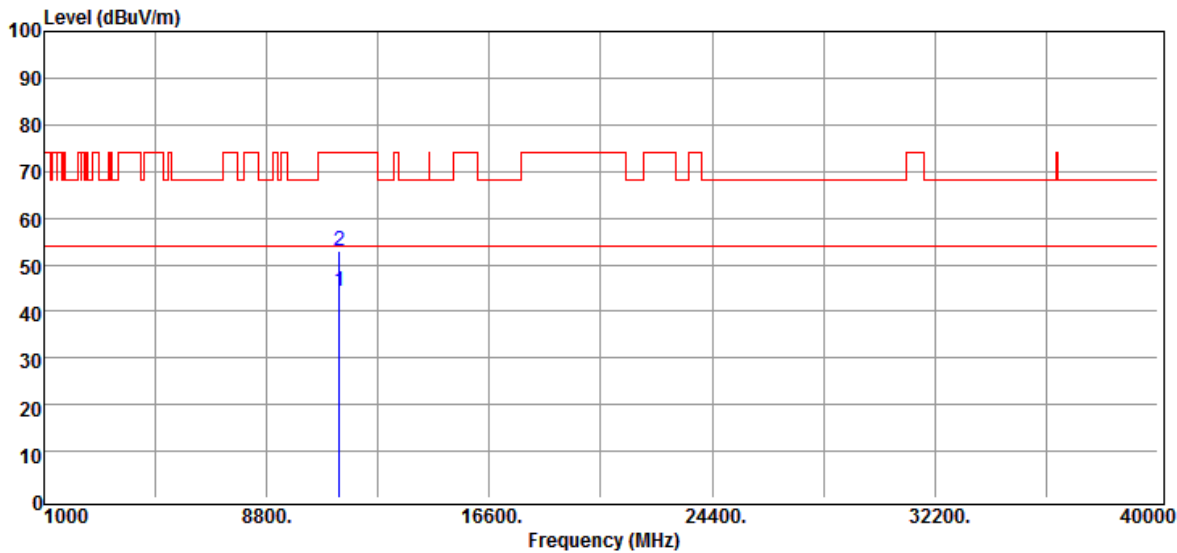
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	32.95	12.40	45.35	54.00	-8.65
11340.00	Peak	41.83	12.40	54.23	74.00	-19.77

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Jerry



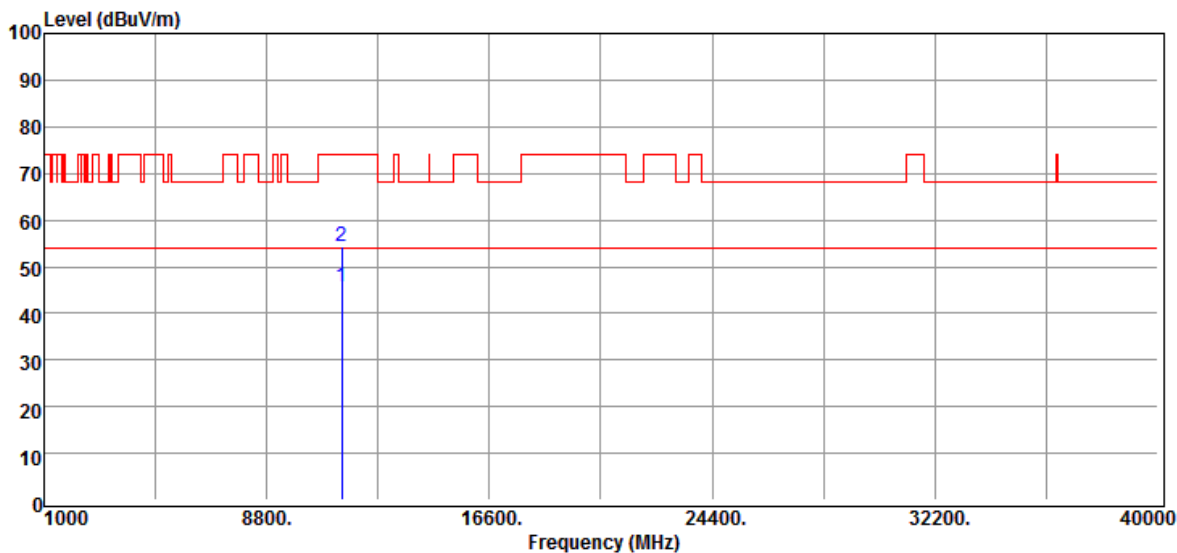
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	31.87	12.40	44.27	54.00	-9.73
11340.00	Peak	40.55	12.40	52.95	74.00	-21.05

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Operation Mode	:802.11n40 / Band3/4	Test Date	:2018-08-17
Test Mode	:Tx CH 142	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	32.53	13.05	45.58	54.00	-8.42
11420.00	Peak	41.24	13.05	54.29	74.00	-19.71

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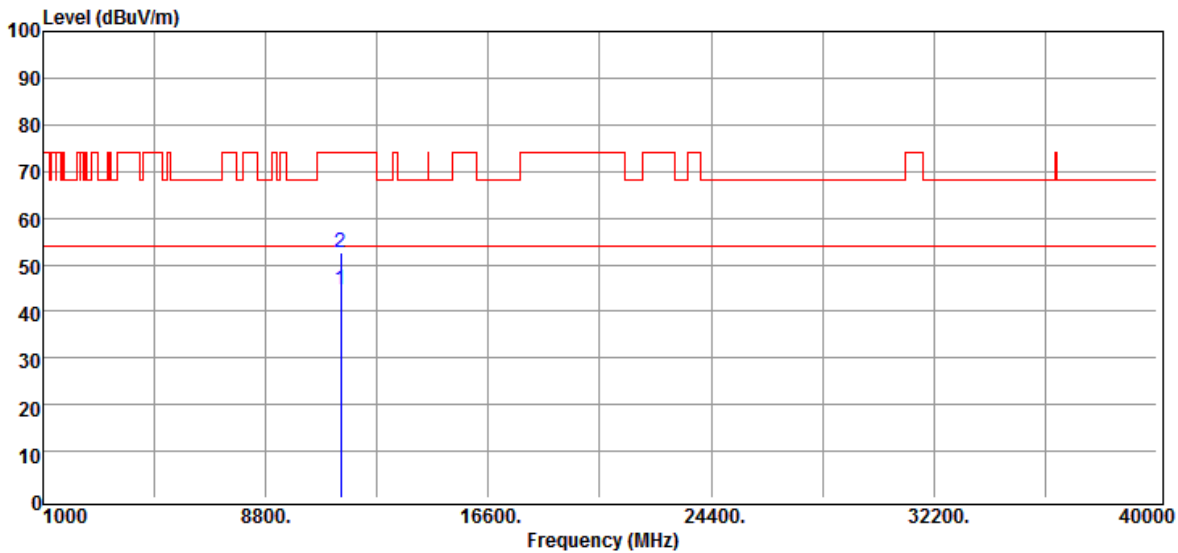
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Operation Mode :802.11n40 / Band3/4
 Test Mode :Tx CH 142
 EUT Pol :E1 Plan
 Test Channel :5710 MHz

Test Date :2018-08-17
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	31.56	13.05	44.61	54.00	-9.39
11420.00	Peak	39.69	13.05	52.74	74.00	-21.26

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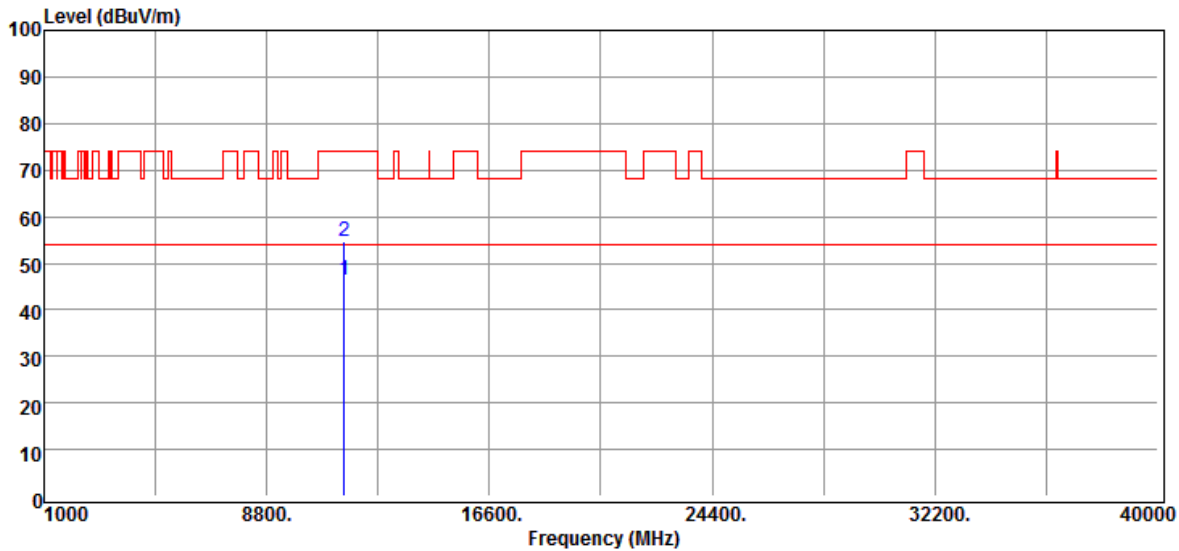
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry



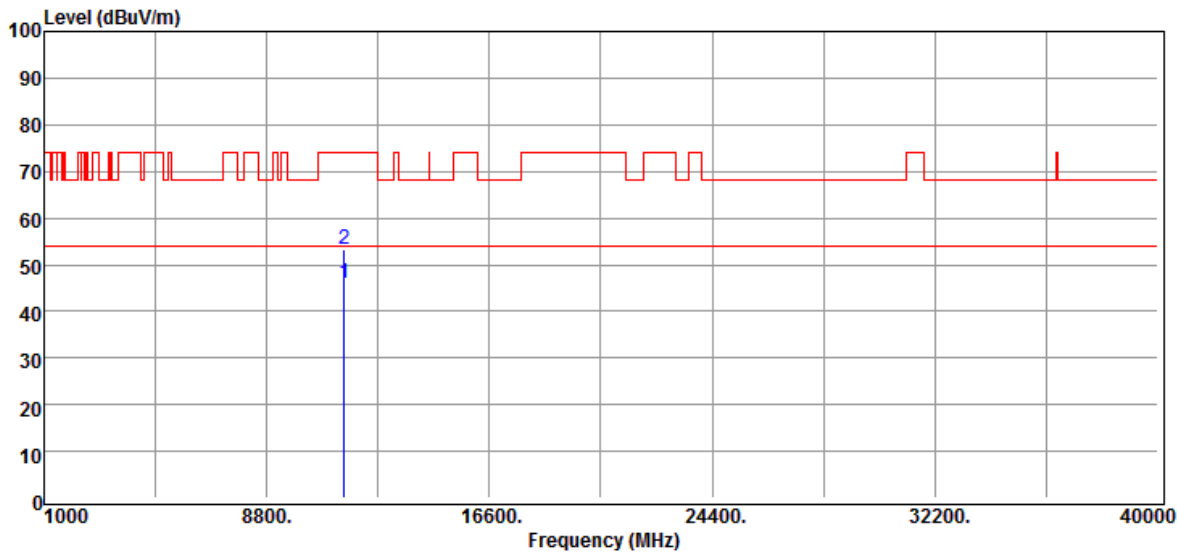
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	33.13	13.31	46.44	54.00	-7.56
11510.00	Peak	41.32	13.31	54.63	74.00	-19.37

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Jerry



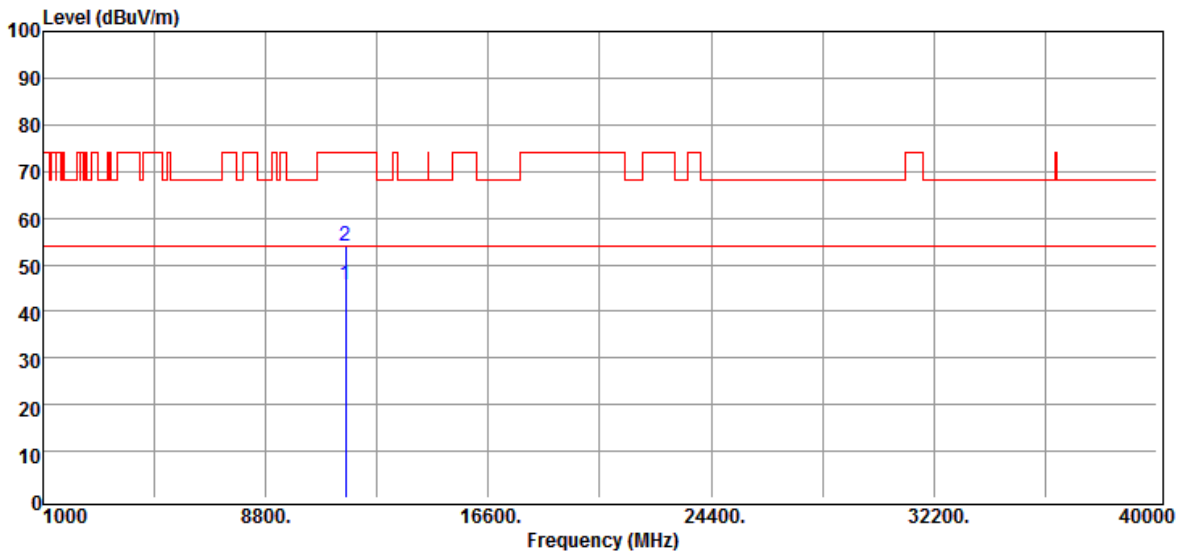
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	32.67	13.31	45.98	54.00	-8.02
11510.00	Peak	40.02	13.31	53.33	74.00	-20.67

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Jerry



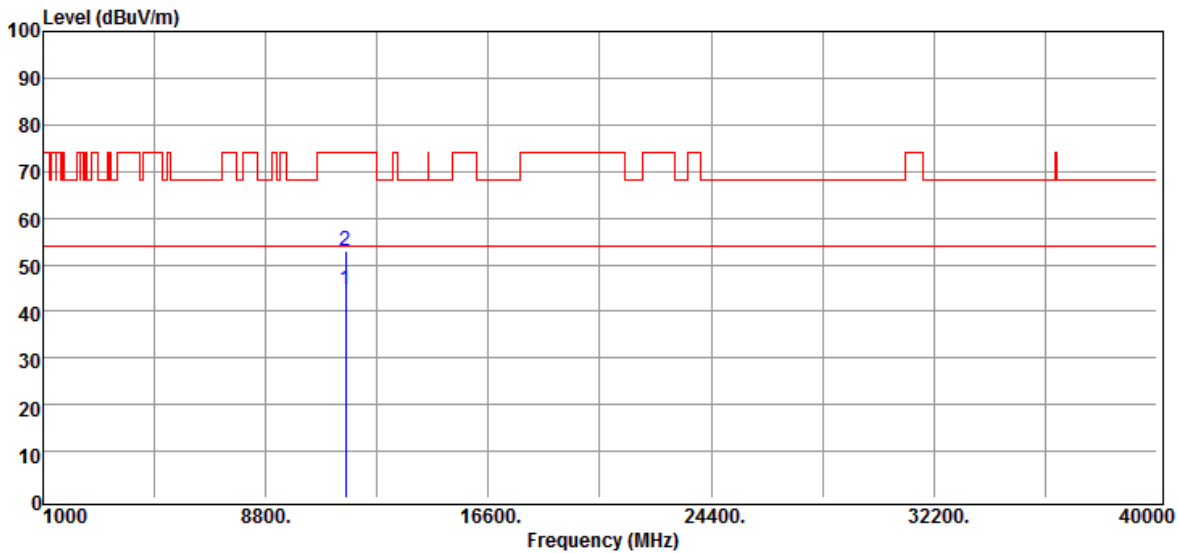
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	32.73	12.92	45.65	54.00	-8.35
11590.00	Peak	40.94	12.92	53.86	74.00	-20.14

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	31.55	12.92	44.47	54.00	-9.53
11590.00	Peak	39.87	12.92	52.79	74.00	-21.21

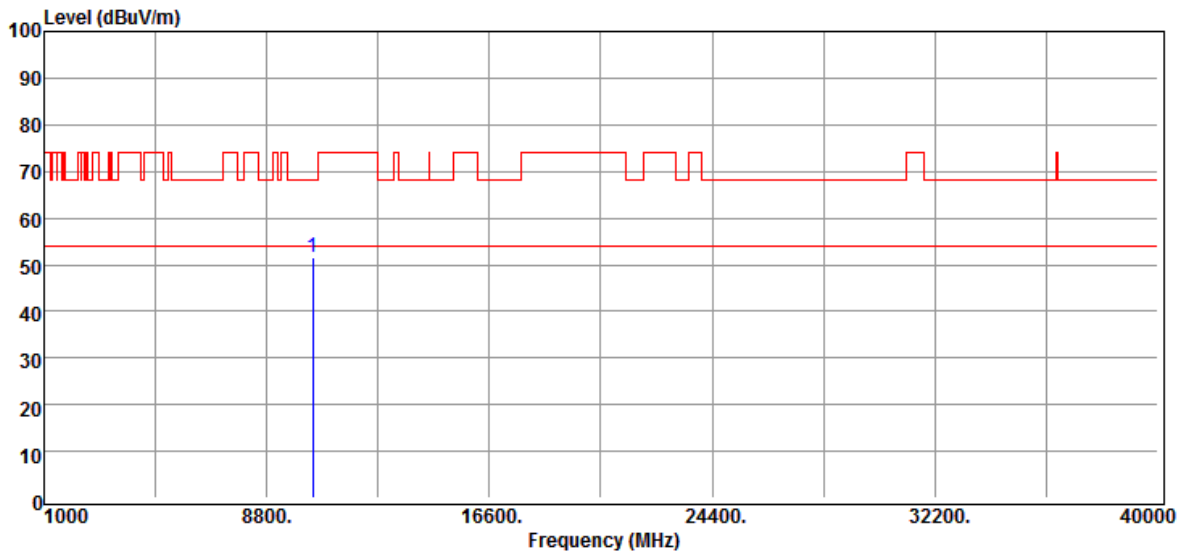
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Jerry



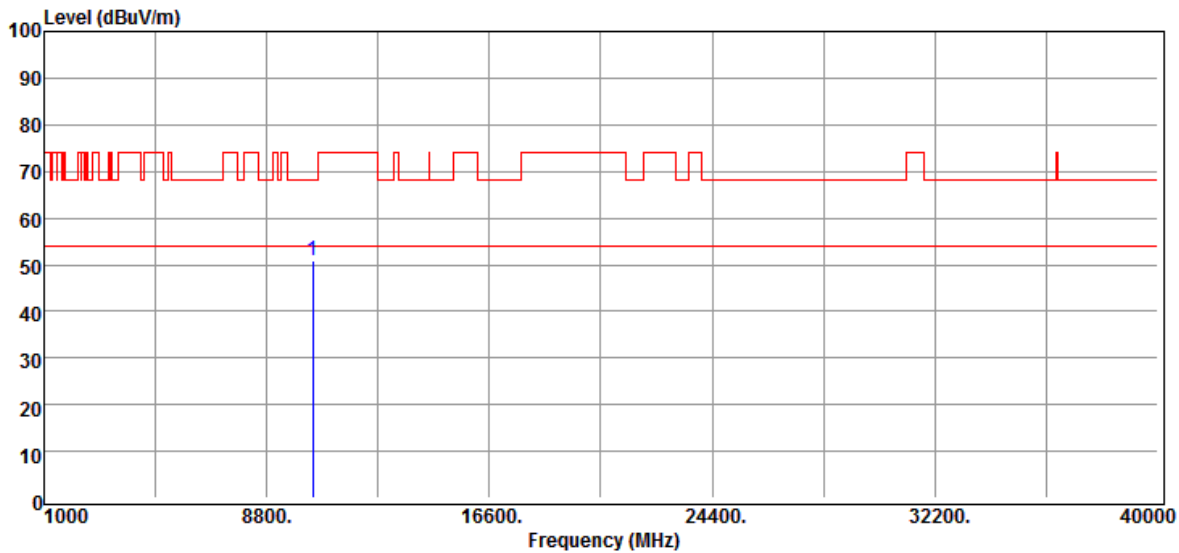
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	39.12	12.49	51.61	68.20	-16.59

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Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	38.23	12.49	50.72	68.20	-17.48

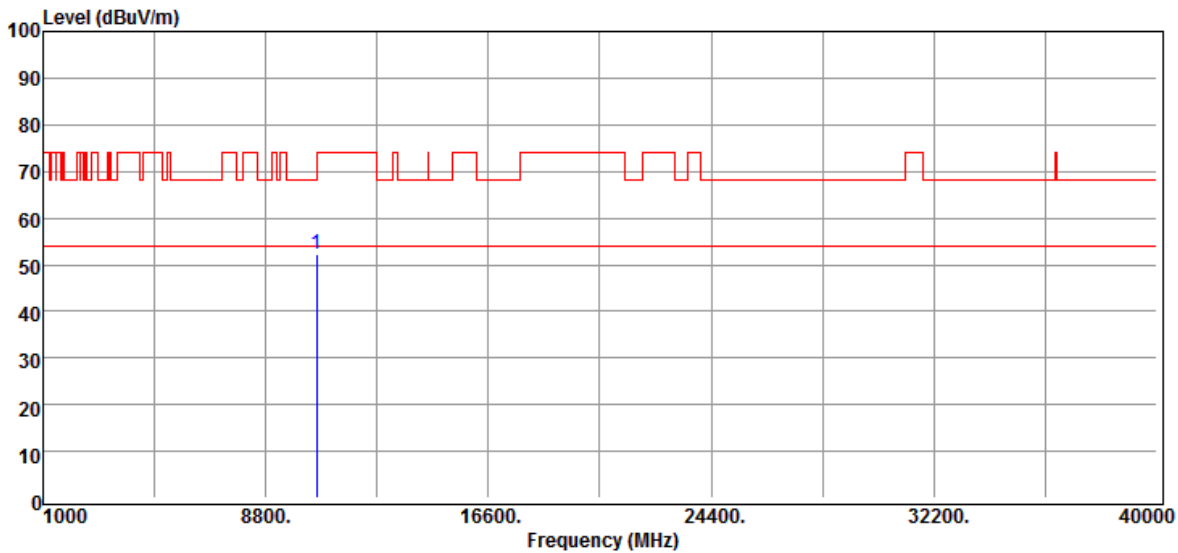
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Jerry



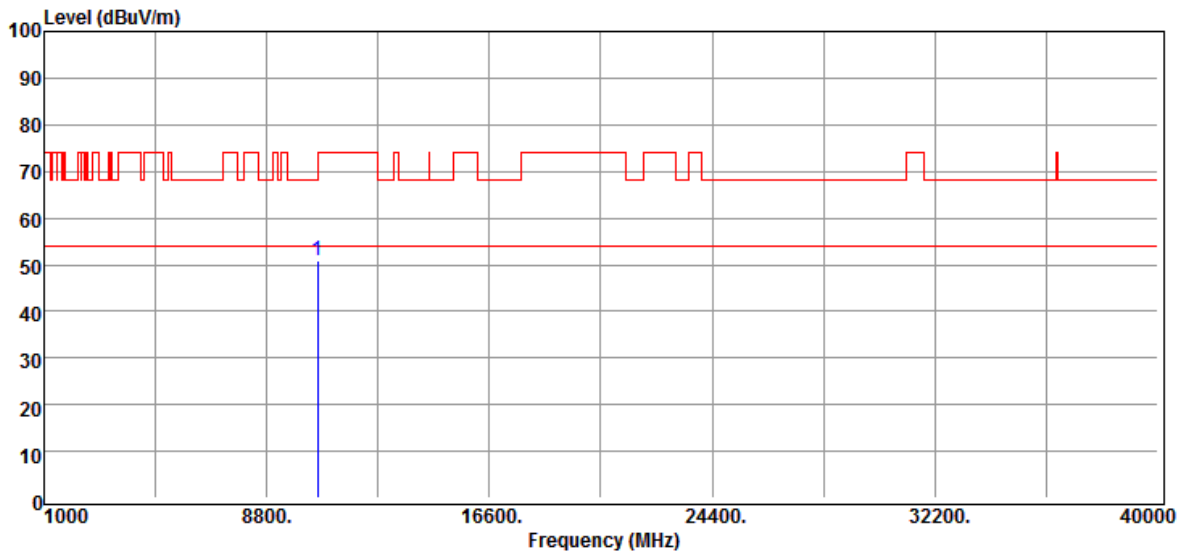
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	39.72	12.36	52.08	68.20	-16.12

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Operation Mode	:802.11ac80 / Band2	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	38.53	12.36	50.89	68.20	-17.31

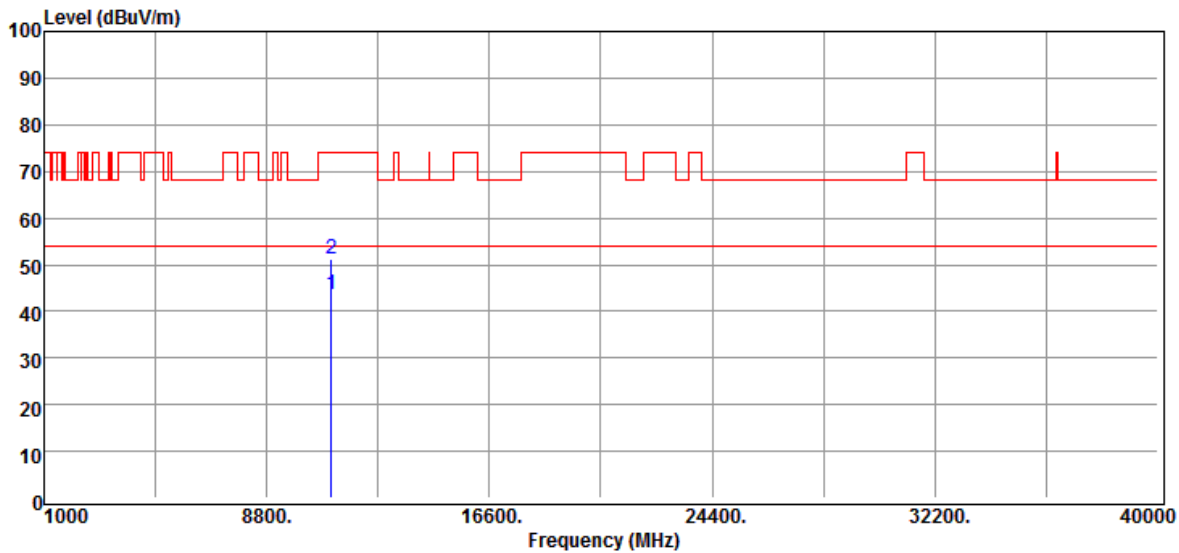
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Jerry



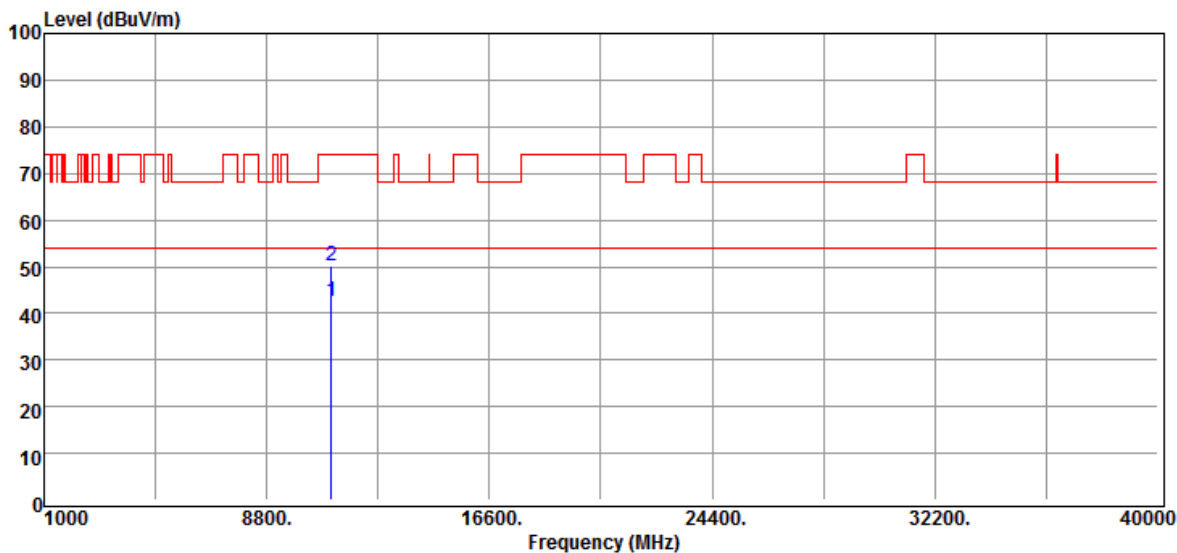
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	32.10	11.37	43.47	54.00	-10.53
11060.00	Peak	39.88	11.37	51.25	74.00	-22.75

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Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Jerry



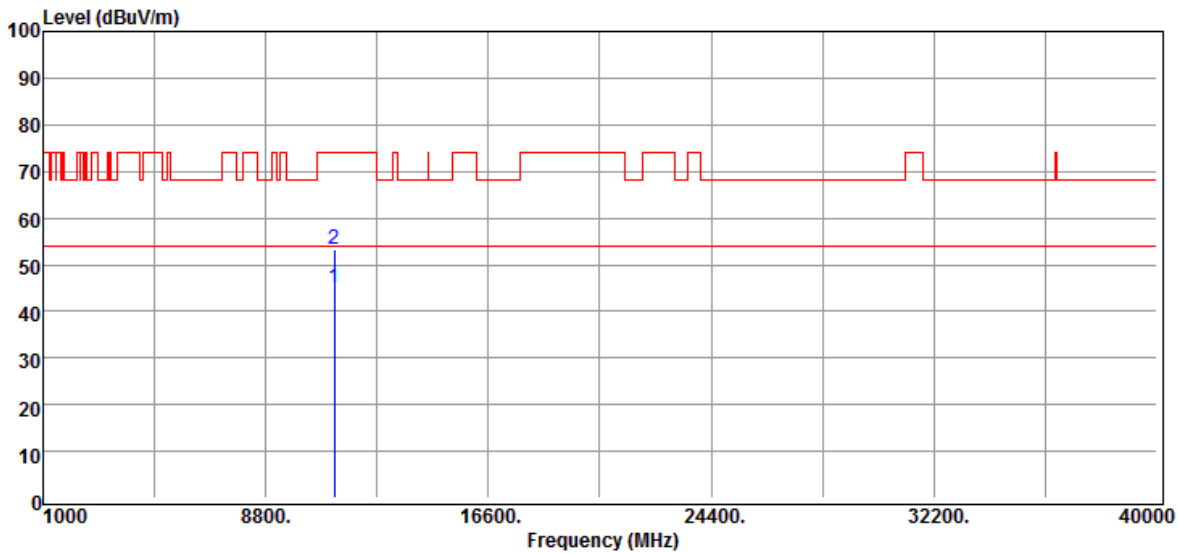
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	31.05	11.37	42.42	54.00	-11.58
11060.00	Peak	38.65	11.37	50.02	74.00	-23.98

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Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Jerry



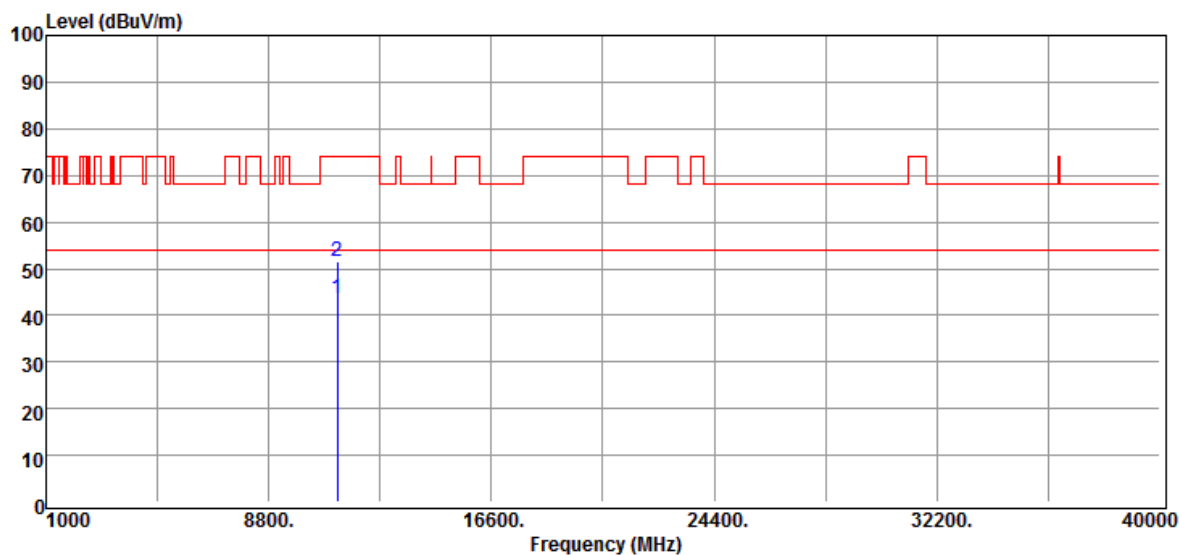
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11210.00	Average	32.53	12.39	44.92	54.00	-9.08
11210.00	Peak	40.98	12.39	53.37	74.00	-20.63

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Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Jerry



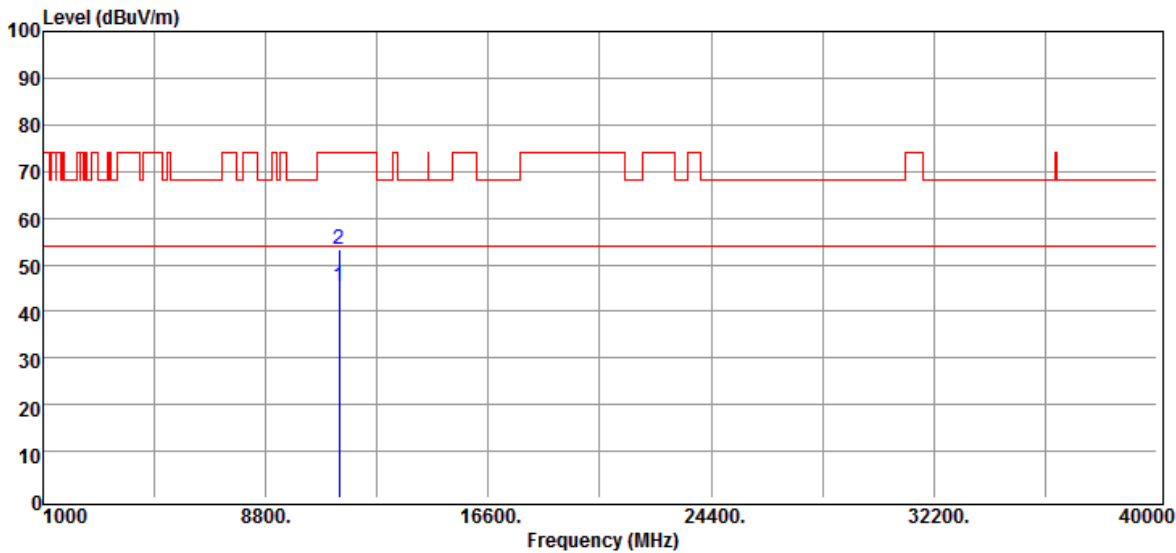
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11210.00	Average	31.23	12.39	43.62	54.00	-10.38
11210.00	Peak	39.02	12.39	51.41	74.00	-22.59

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Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5690 MHz	Engineer	:Jerry



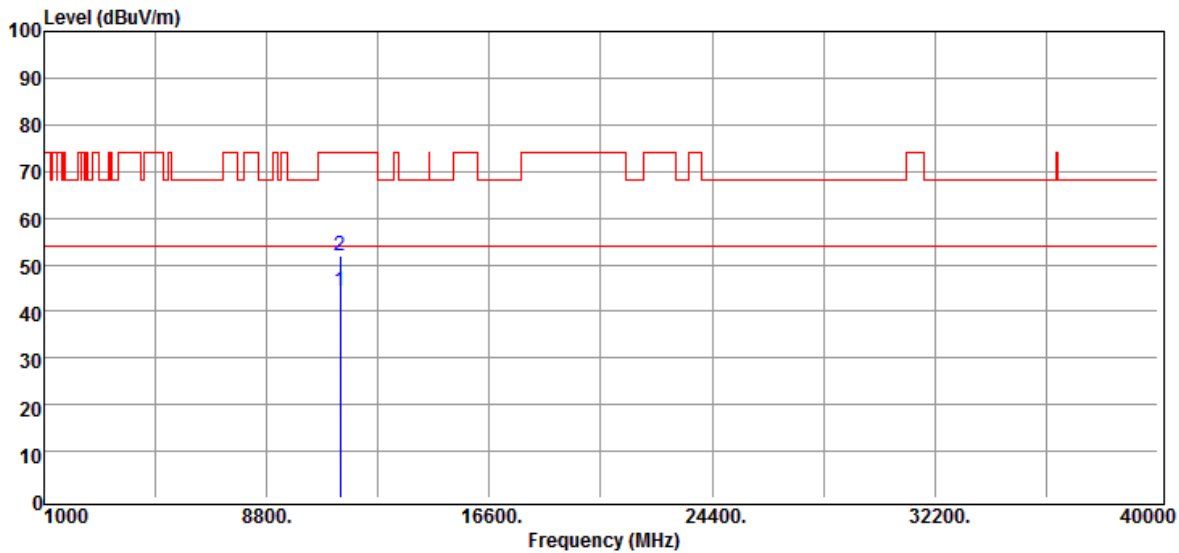
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	32.53	12.79	45.32	54.00	-8.68
11380.00	Peak	40.52	12.79	53.31	74.00	-20.69

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Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-17
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	31.53	12.79	44.32	54.00	-9.68
11380.00	Peak	39.26	12.79	52.05	74.00	-21.95

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t (886-2) 2299-3279

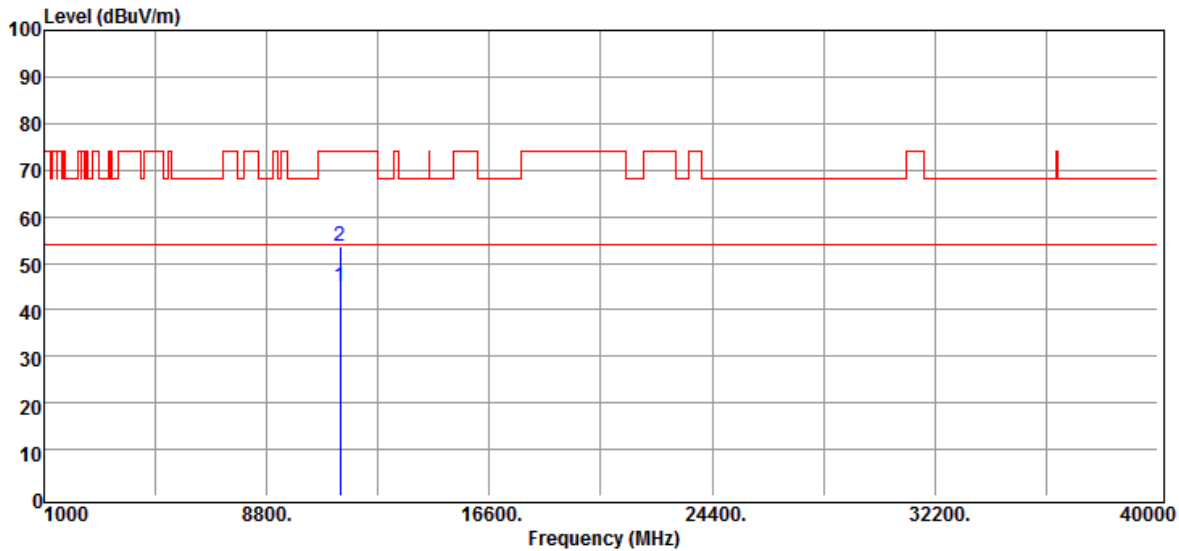
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	32.36	12.79	45.15	54.00	-8.85
11380.00	Peak	40.99	12.79	53.78	74.00	-20.22

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台灣檢驗科技股份有限公司

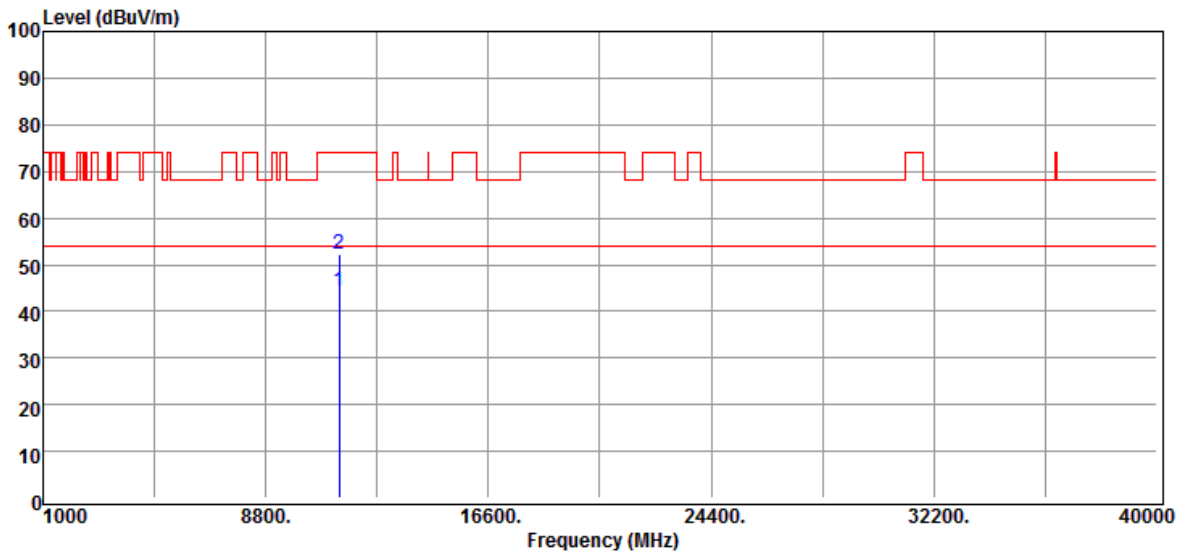
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-17
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	31.53	12.79	44.32	54.00	-9.68
11380.00	Peak	39.32	12.79	52.11	74.00	-21.89

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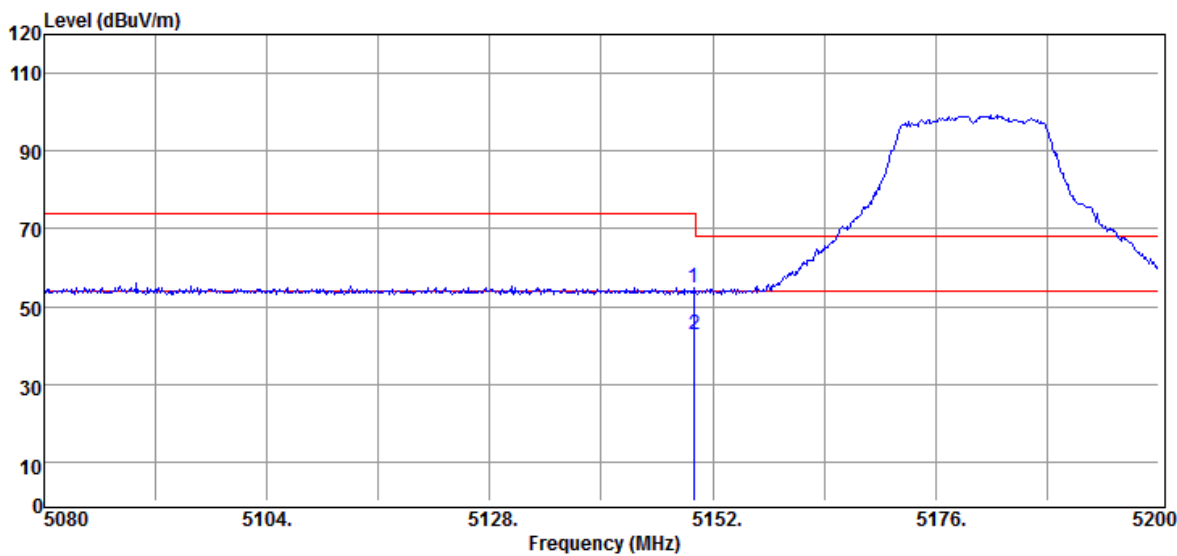
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Band edge falling to restricted band

802.11a mode

Operation Mode	:802.11a / Band1	Test Date	:2018-08-16
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.96	Peak	52.99	1.84	54.83	74.00	-19.17
5150.00	Average	40.89	1.84	42.73	54.00	-11.27

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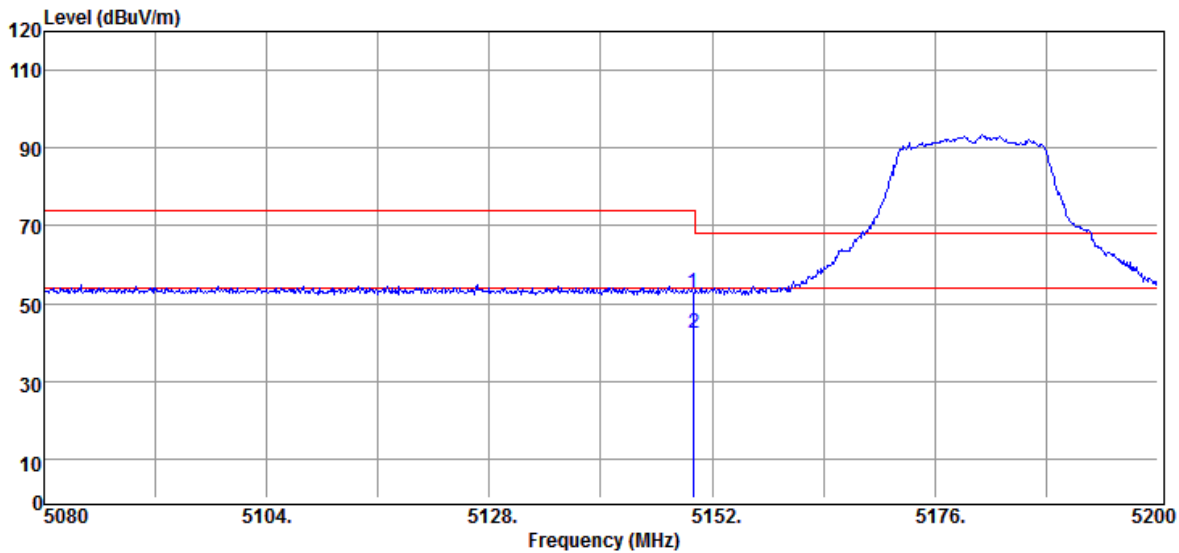
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode	:802.11a / Band1	Test Date	:2018-08-16
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



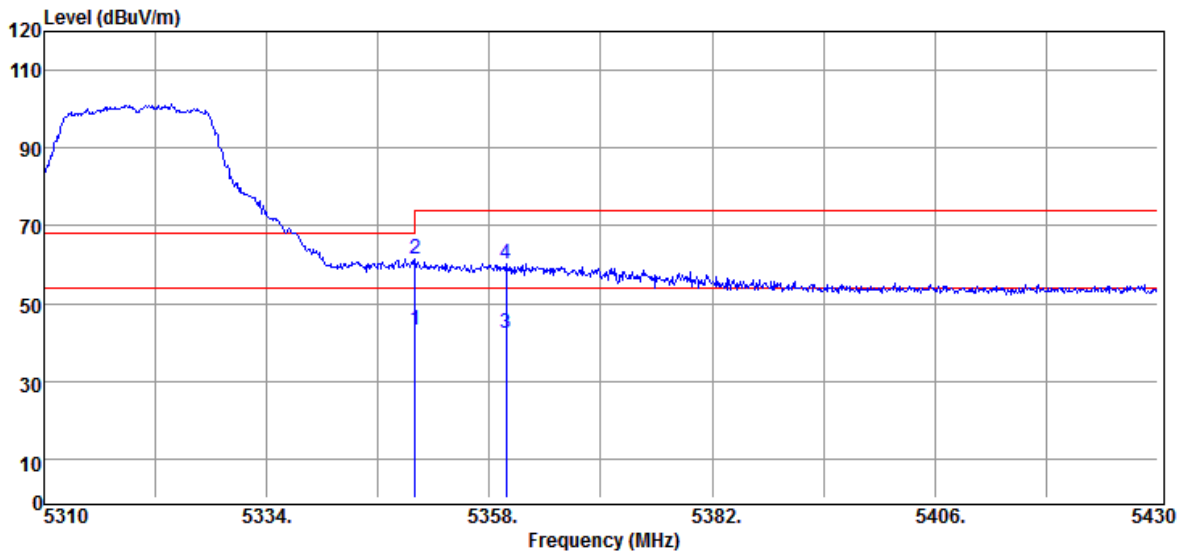
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.96	Peak	51.10	1.84	52.94	74.00	-21.06
5150.00	Average	40.57	1.84	42.41	54.00	-11.59

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-16
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



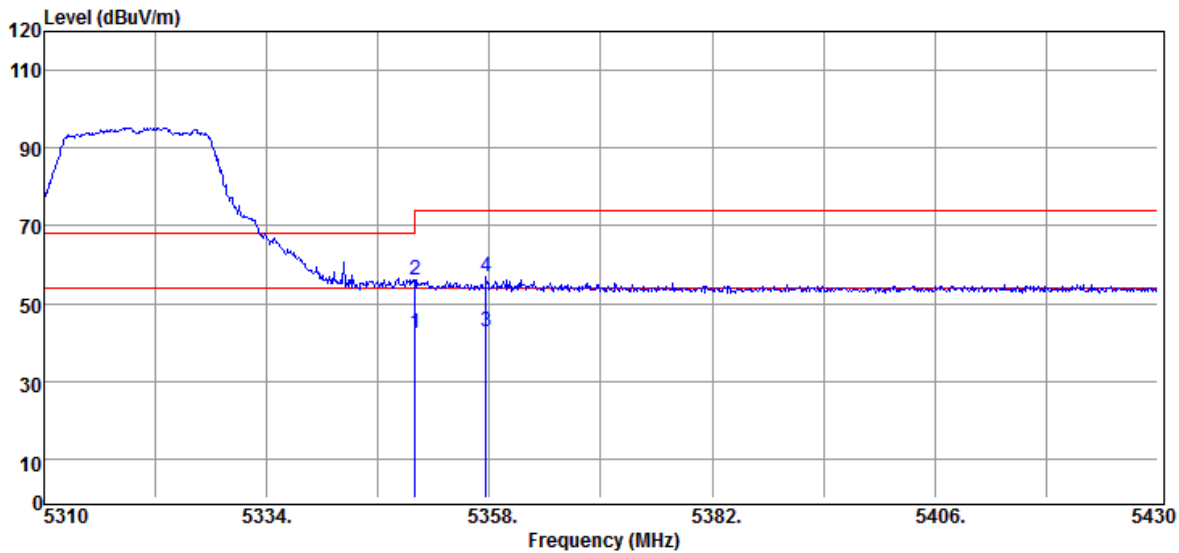
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	41.07	2.24	43.31	54.00	-10.69
5350.00	Peak	59.20	2.24	61.44	74.00	-12.56
5359.80	Average	40.03	2.29	42.32	54.00	-11.68
5359.80	Peak	58.08	2.29	60.37	74.00	-13.63

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Operation Mode	:802.11a / Band2	Test Date	:2018-08-16
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



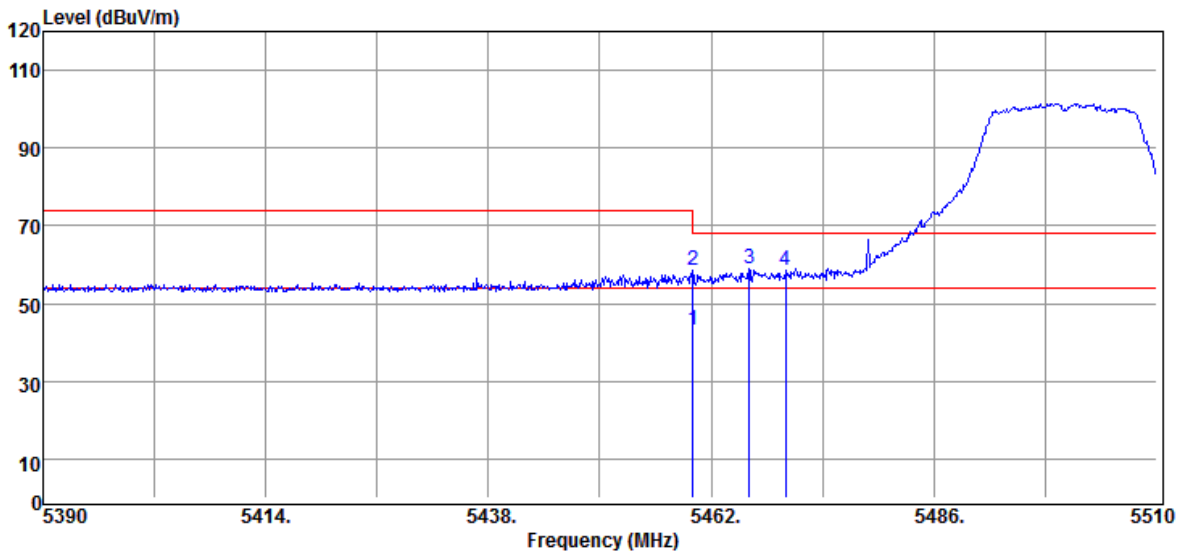
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	40.23	2.24	42.47	54.00	-11.53
5350.00	Peak	53.95	2.24	56.19	74.00	-17.81
5357.64	Average	40.41	2.26	42.67	54.00	-11.33
5357.64	Peak	54.74	2.26	57.00	74.00	-17.00

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-16
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



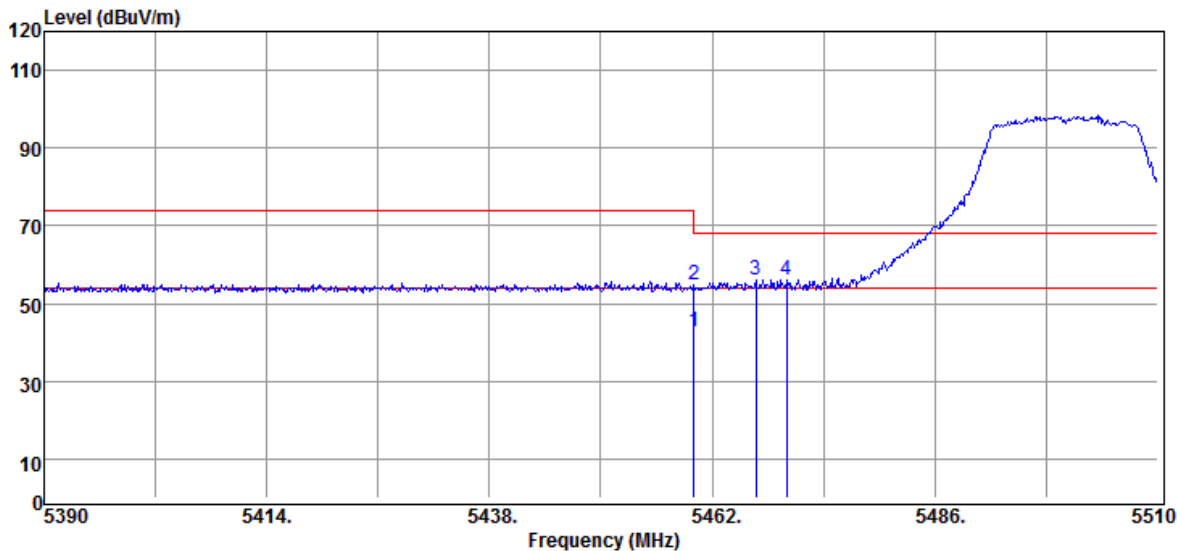
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	40.89	2.22	43.11	54.00	-10.89
5460.00	Peak	56.13	2.22	58.35	74.00	-15.65
5466.08	Peak	56.58	2.19	58.77	68.20	-9.43
5470.00	Peak	56.34	2.18	58.52	68.20	-9.68

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-16
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



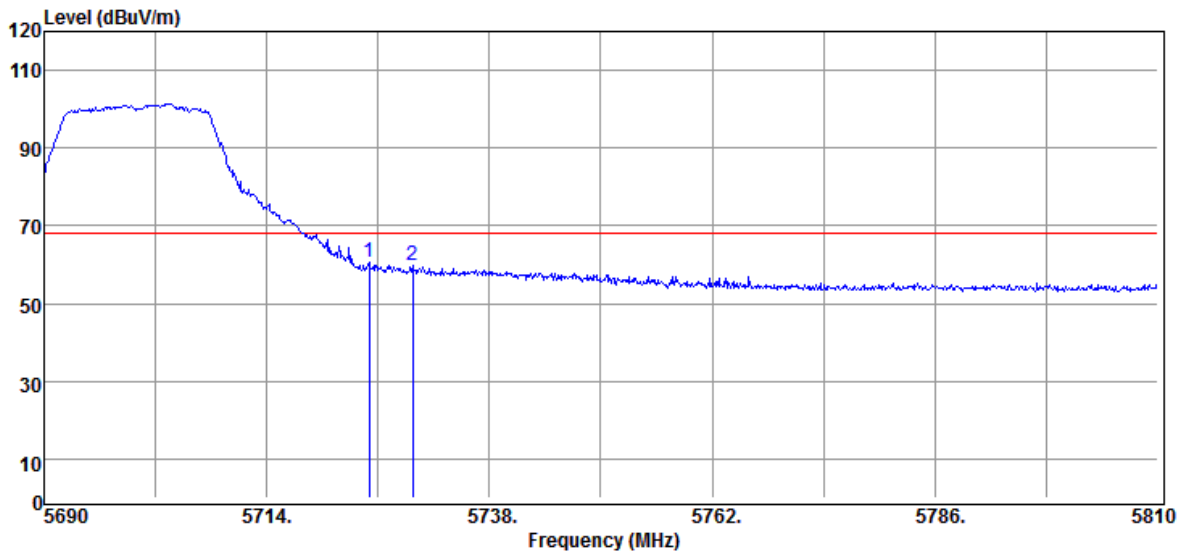
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	40.55	2.22	42.77	54.00	-11.23
5460.00	Peak	52.55	2.22	54.77	74.00	-19.23
5466.68	Peak	53.79	2.19	55.98	68.20	-12.22
5470.00	Peak	53.86	2.18	56.04	68.20	-12.16

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-16
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



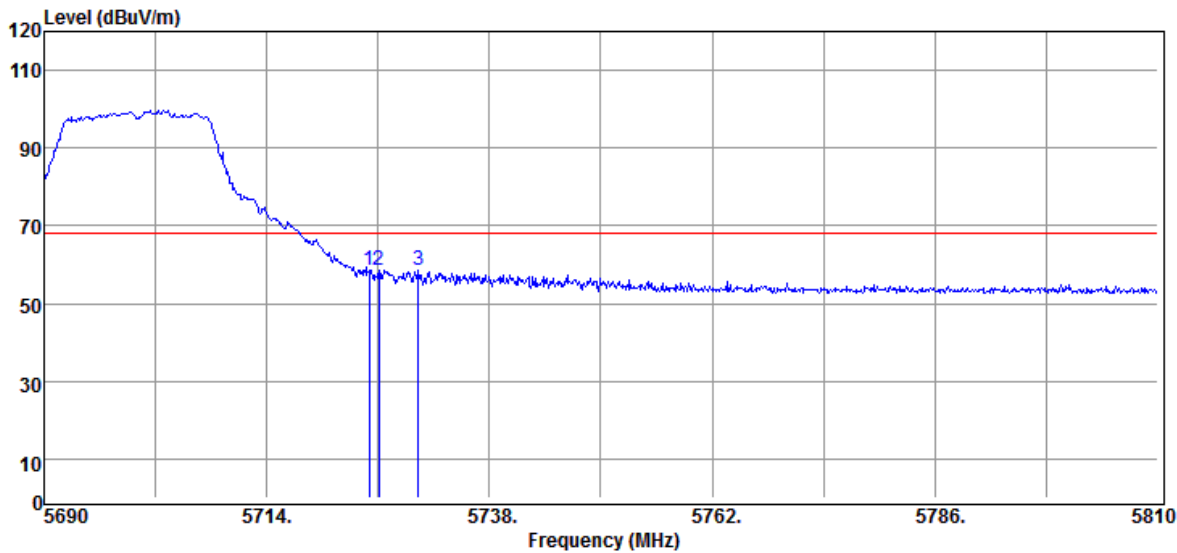
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	58.39	2.28	60.67	68.20	-7.53
5729.72	Peak	57.59	2.26	59.85	68.20	-8.35

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Operation Mode	:802.11a / Band3	Test Date	:2018-08-16
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



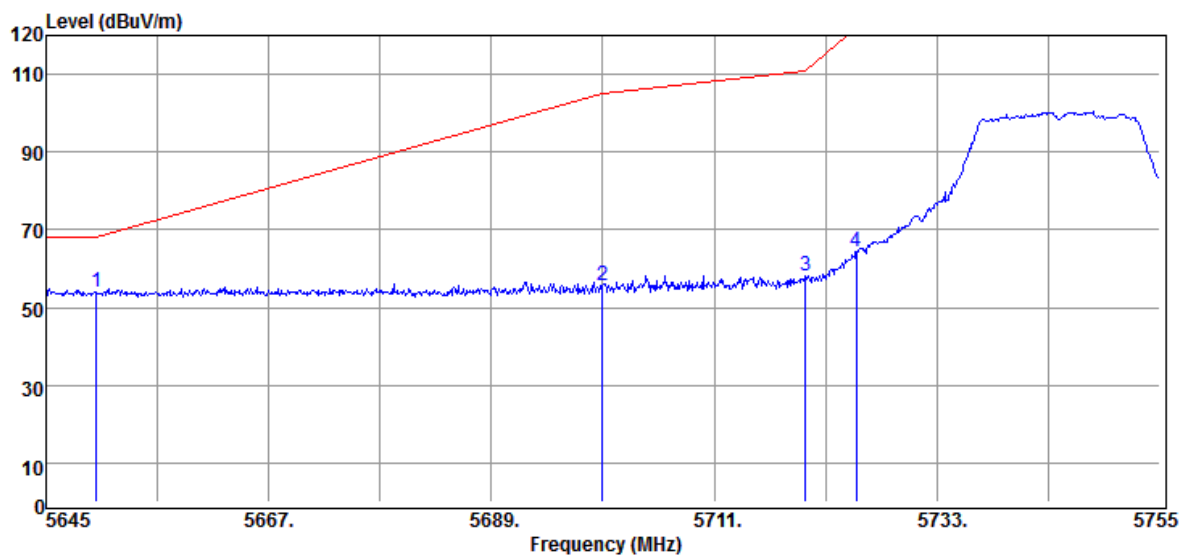
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	56.23	2.28	58.51	68.20	-9.69
5726.12	Peak	56.43	2.28	58.71	68.20	-9.49
5730.32	Peak	56.36	2.25	58.61	68.20	-9.59

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-16
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



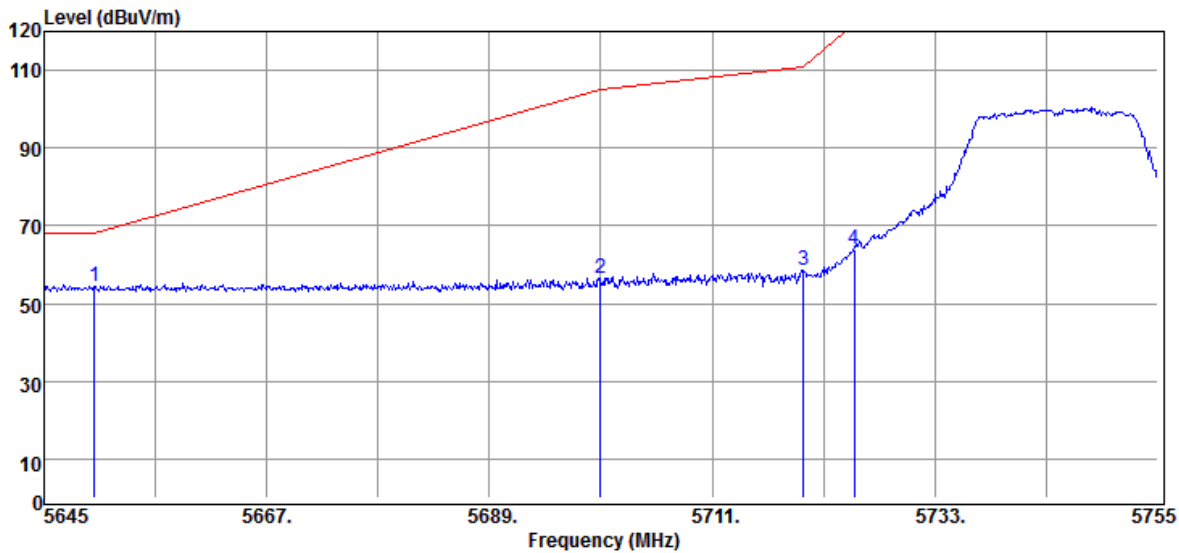
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	51.81	2.25	54.06	68.20	-14.14
5700.00	Peak	53.27	2.42	55.69	105.20	-49.51
5720.00	Peak	55.93	2.32	58.25	110.80	-52.55
5725.00	Peak	62.25	2.28	64.53	122.20	-57.67

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-16
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



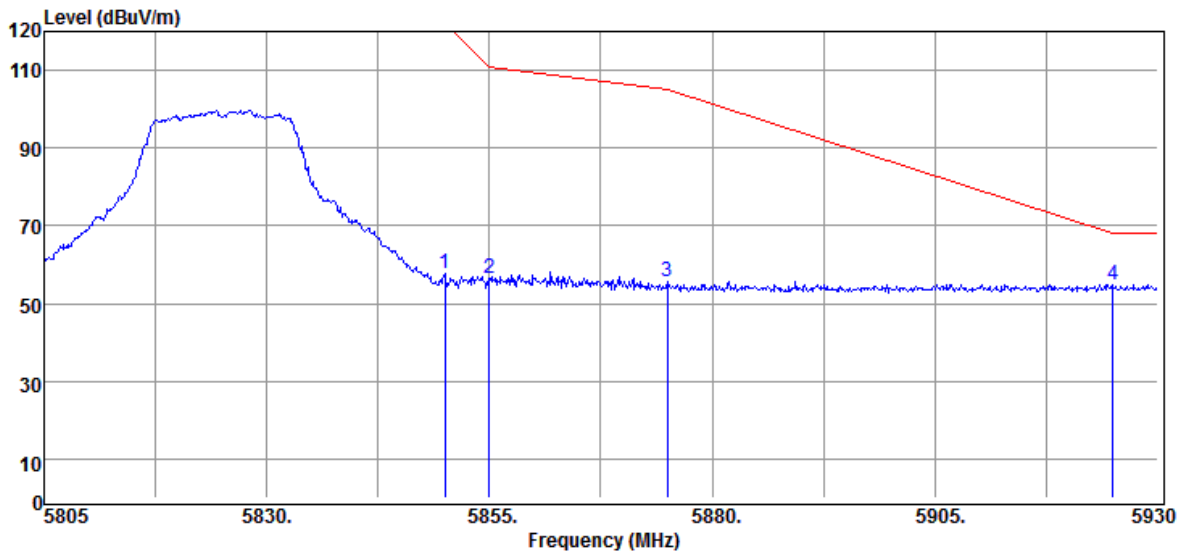
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.11	2.25	54.36	68.20	-13.84
5700.00	Peak	54.00	2.42	56.42	105.20	-48.78
5720.00	Peak	56.39	2.32	58.71	110.80	-52.09
5725.00	Peak	61.67	2.28	63.95	122.20	-58.25

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Operation Mode	:802.11a / Band4	Test Date	:2018-08-16
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	55.91	1.88	57.79	122.20	-64.41
5855.00	Peak	54.77	1.89	56.66	110.80	-54.14
5875.00	Peak	53.56	1.90	55.46	105.20	-49.74
5925.00	Peak	52.57	2.16	54.73	68.20	-13.47

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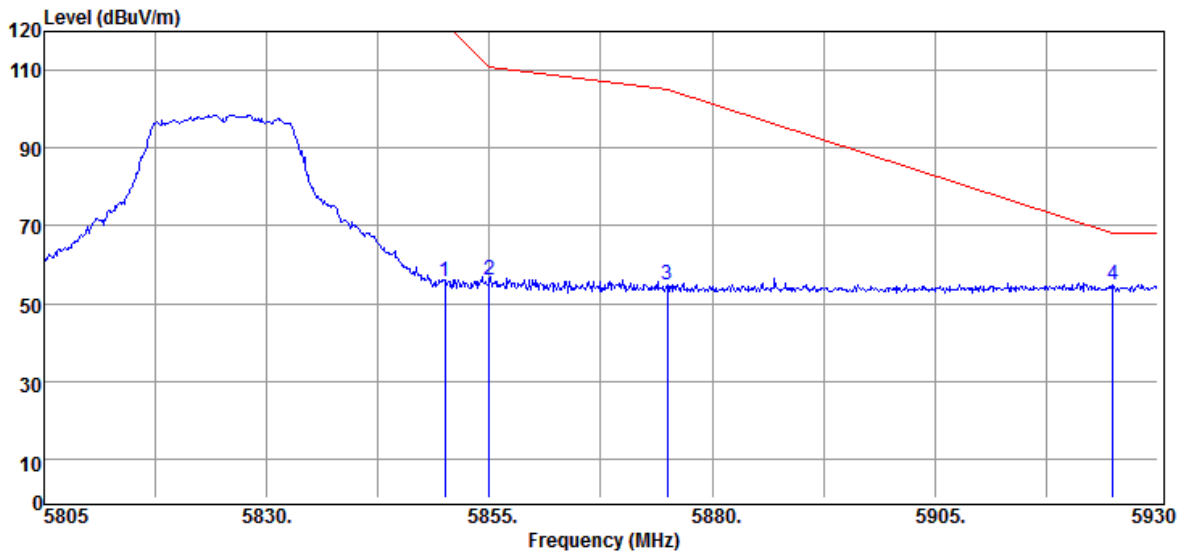
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Operation Mode	:802.11a / Band4	Test Date	:2018-08-16
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	53.72	1.88	55.60	122.20	-66.60
5855.00	Peak	54.00	1.89	55.89	110.80	-54.91
5875.00	Peak	52.90	1.90	54.80	105.20	-50.40
5925.00	Peak	52.86	2.16	55.02	68.20	-13.18

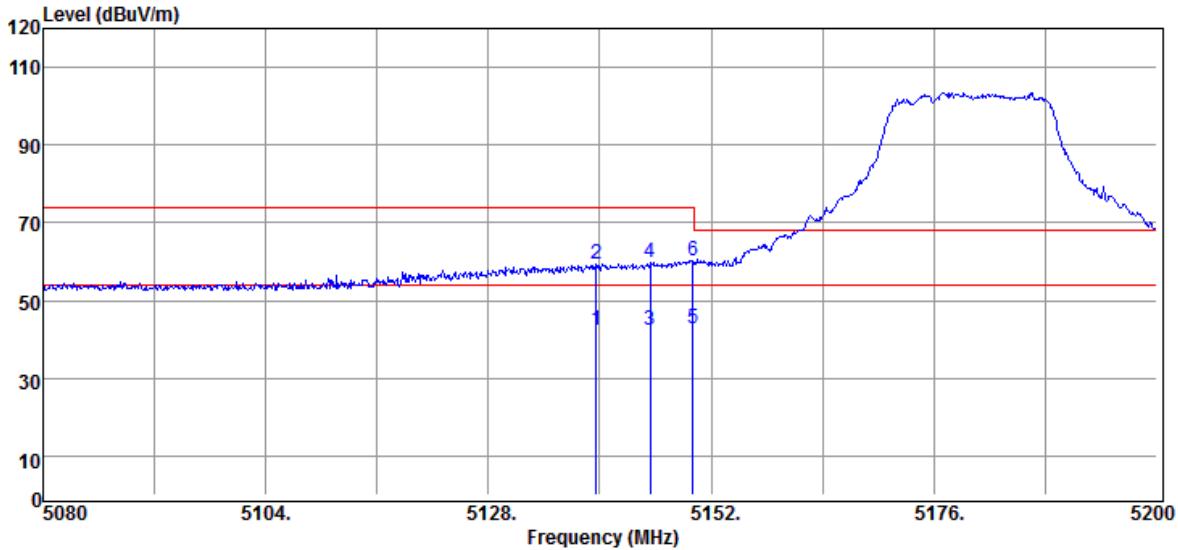
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802.11n20 HT mode

Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



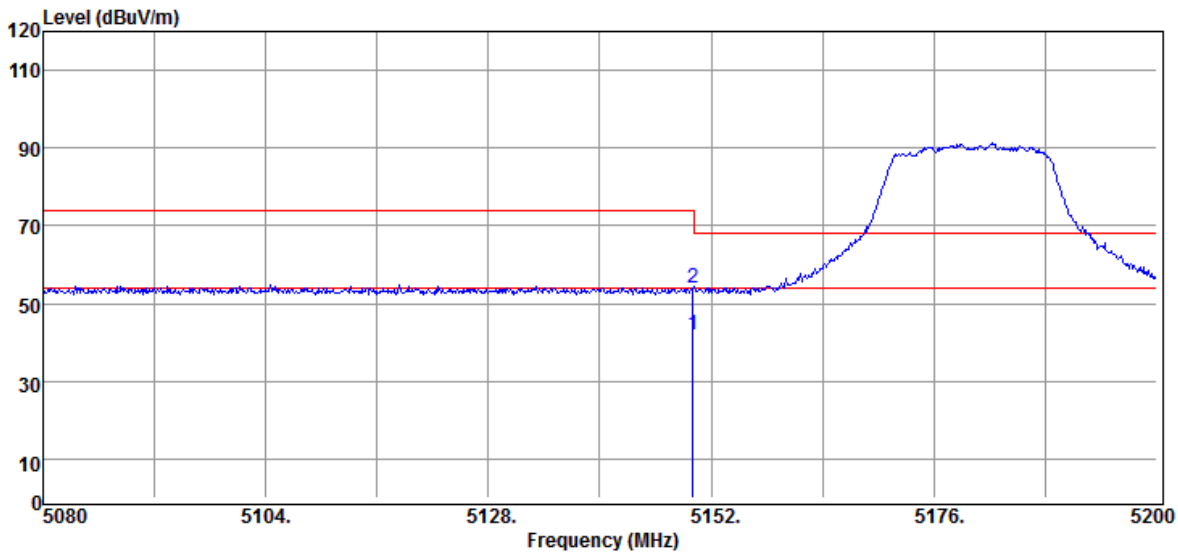
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5139.64	Average	40.53	1.81	42.34	54.00	-11.66
5139.64	Peak	57.57	1.81	59.38	74.00	-14.62
5145.40	Average	40.66	1.83	42.49	54.00	-11.51
5145.40	Peak	57.94	1.83	59.77	74.00	-14.23
5150.00	Average	40.74	1.84	42.58	54.00	-11.42
5150.00	Peak	58.30	1.84	60.14	74.00	-13.86

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Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	40.19	1.84	42.03	54.00	-11.97
5150.00	Peak	51.96	1.84	53.80	74.00	-20.20

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台灣檢驗科技股份有限公司

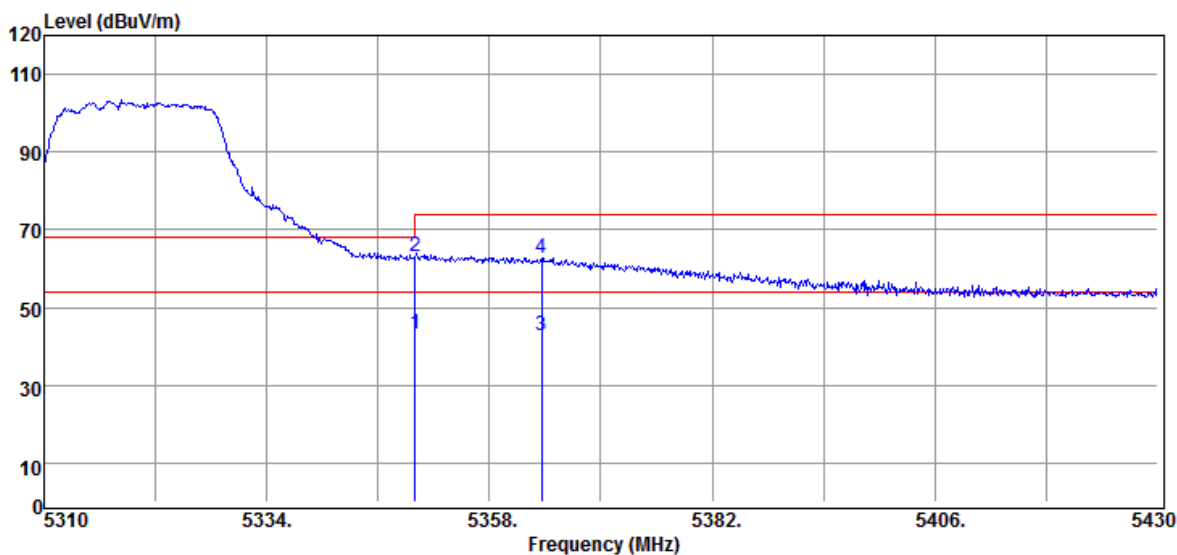
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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



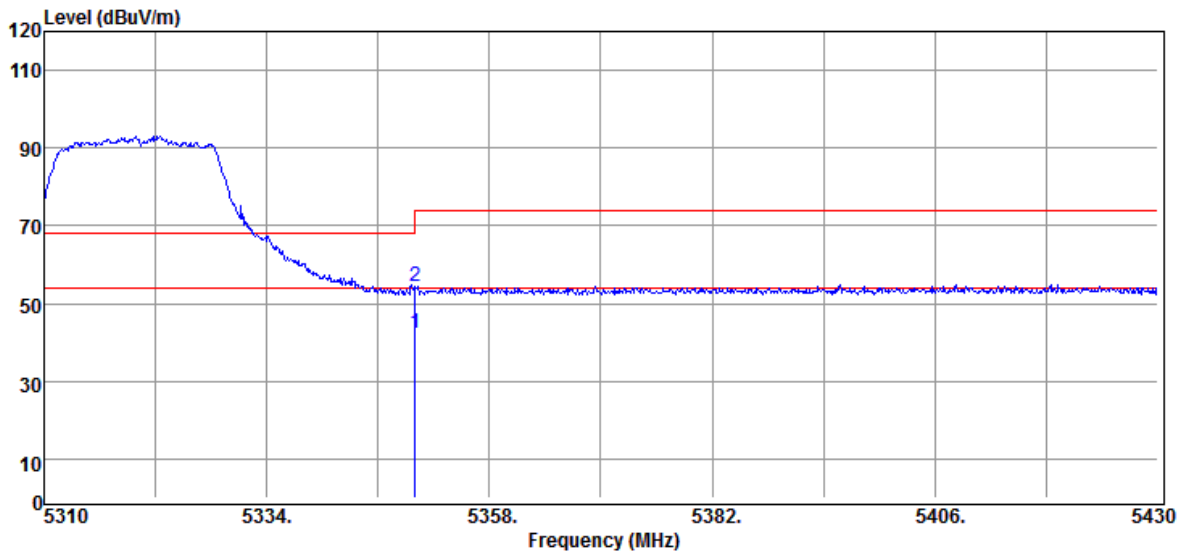
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	40.83	2.24	43.07	54.00	-10.93
5350.00	Peak	60.97	2.24	63.21	74.00	-10.79
5363.64	Average	40.65	2.30	42.95	54.00	-11.05
5363.64	Peak	60.39	2.30	62.69	74.00	-11.31

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Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



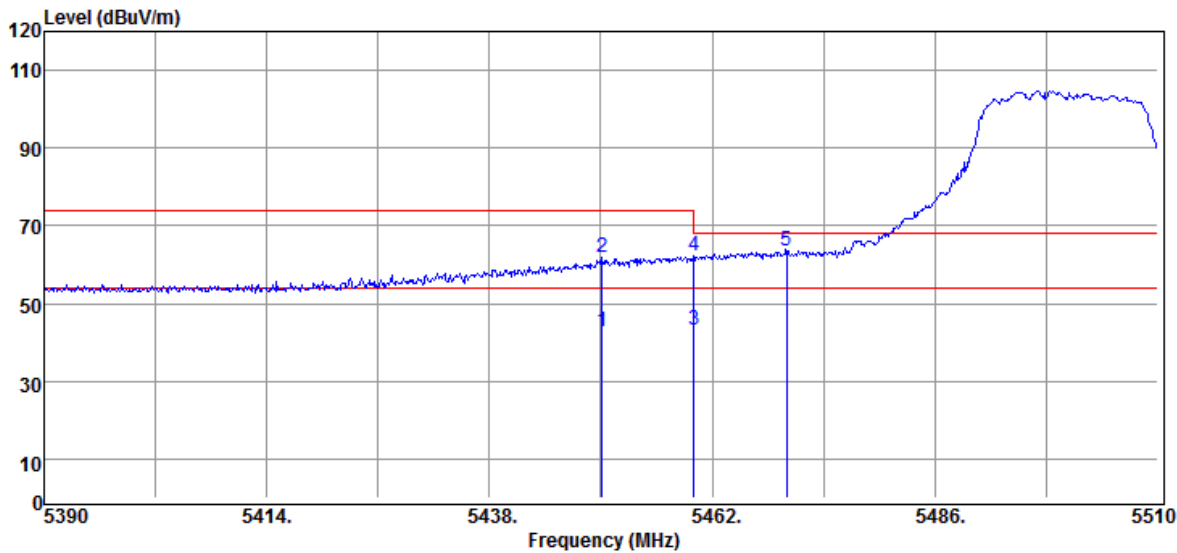
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	39.98	2.24	42.22	54.00	-11.78
5350.00	Peak	52.21	2.24	54.45	74.00	-19.55

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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



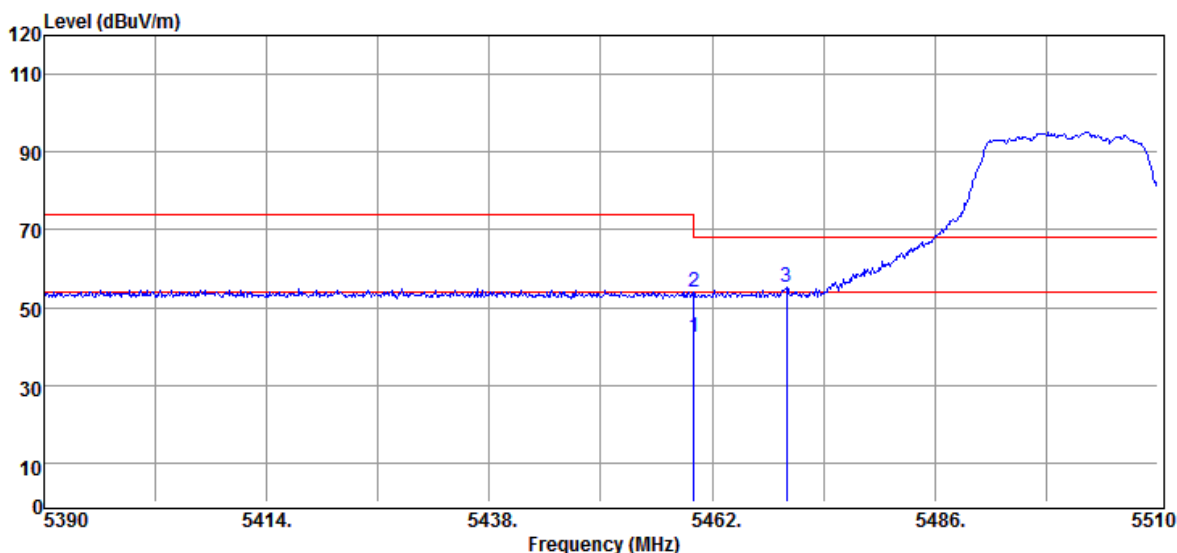
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5450.12	Average	40.63	2.26	42.89	54.00	-11.11
5450.12	Peak	59.47	2.26	61.73	74.00	-12.27
5460.00	Average	40.83	2.22	43.05	54.00	-10.95
5460.00	Peak	60.02	2.22	62.24	74.00	-11.76
5470.00	Peak	61.27	2.18	63.45	68.20	-4.75

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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	40.04	2.22	42.26	54.00	-11.74
5460.00	Peak	51.84	2.22	54.06	74.00	-19.94
5470.00	Peak	52.93	2.18	55.11	68.20	-13.09

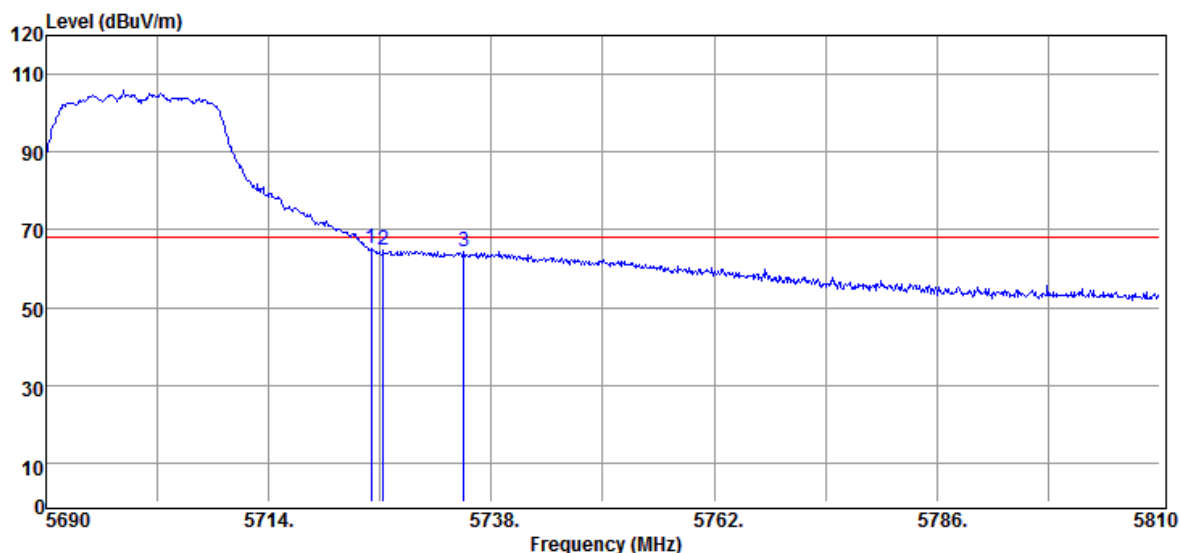
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Operation Mode :802.11n20 / Band3
 Test Mode :BE CH High
 EUT Pol :E1 Plan
 Test Channel :5700 MHz

Test Date :2018-08-22
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Jerry



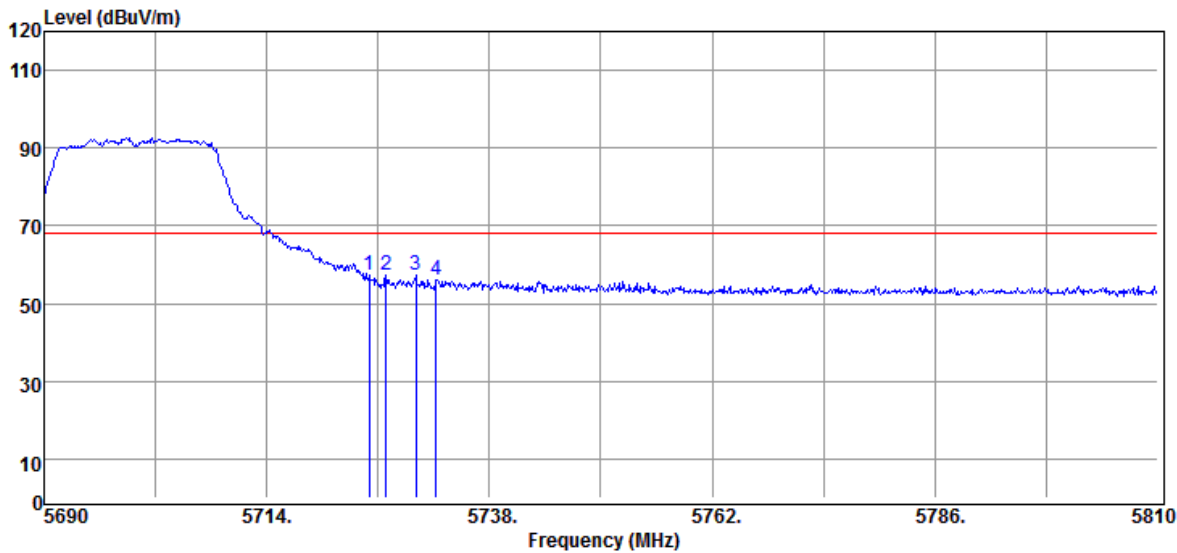
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	62.92	2.28	65.20	68.20	-3.00
5726.36	Peak	62.34	2.28	64.62	68.20	-3.58
5735.00	Peak	62.29	2.22	64.51	68.20	-3.69

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Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



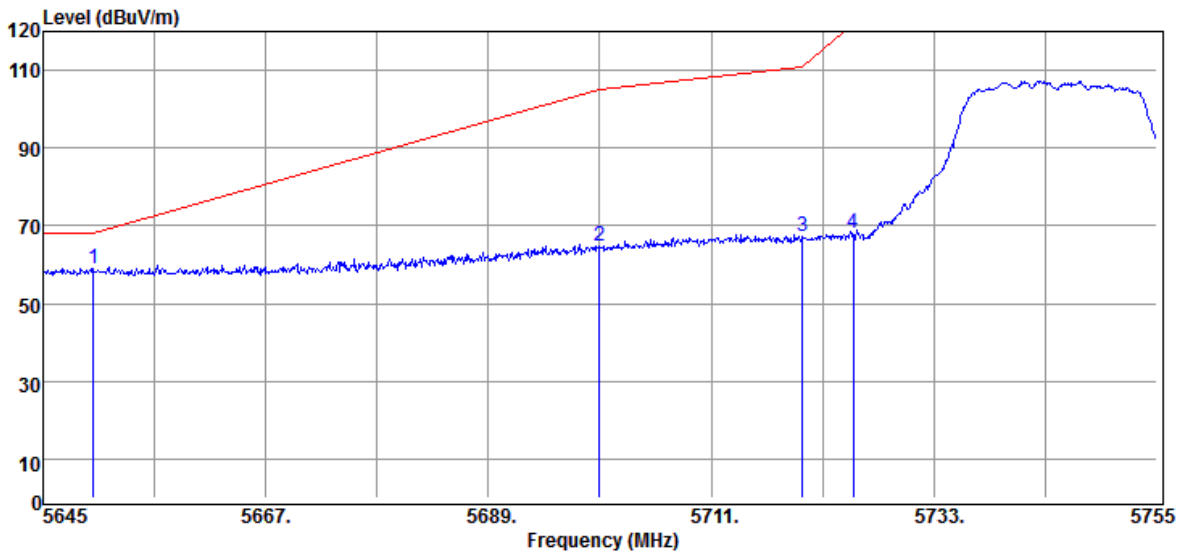
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	55.22	2.28	57.50	68.20	-10.70
5726.84	Peak	55.13	2.27	57.40	68.20	-10.80
5730.08	Peak	55.08	2.25	57.33	68.20	-10.87
5732.24	Peak	53.96	2.25	56.21	68.20	-11.99

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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



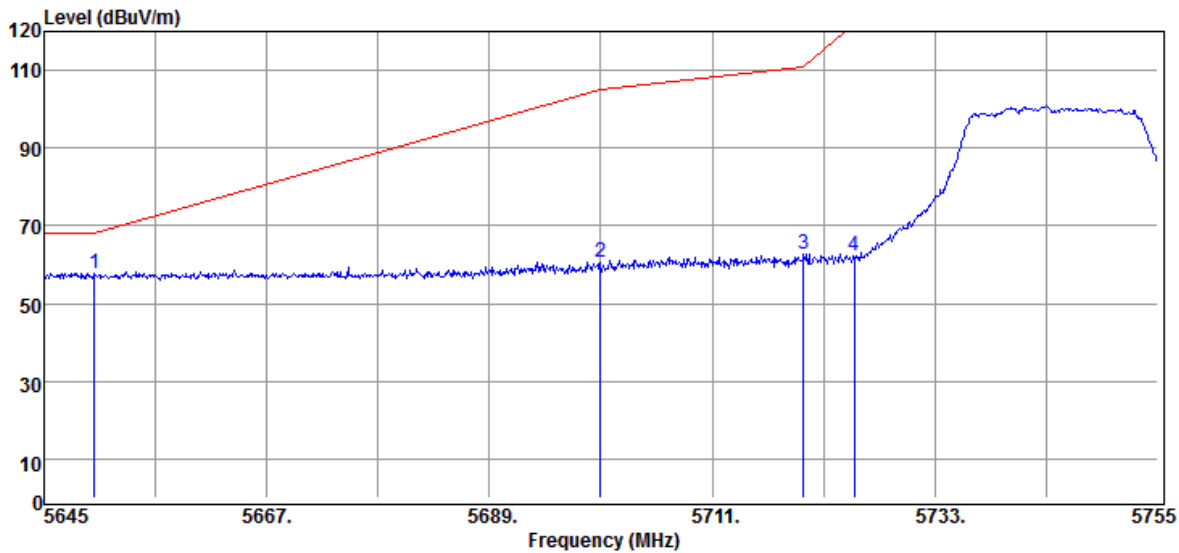
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	56.54	2.25	58.79	68.20	-9.41
5700.00	Peak	62.20	2.42	64.62	105.20	-40.58
5720.00	Peak	65.15	2.32	67.47	110.80	-43.33
5725.00	Peak	65.84	2.28	68.12	122.20	-54.08

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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	55.41	2.25	57.66	68.20	-10.54
5700.00	Peak	58.15	2.42	60.57	105.20	-44.63
5720.00	Peak	60.42	2.32	62.74	110.80	-48.06
5725.00	Peak	60.07	2.28	62.35	122.20	-59.85

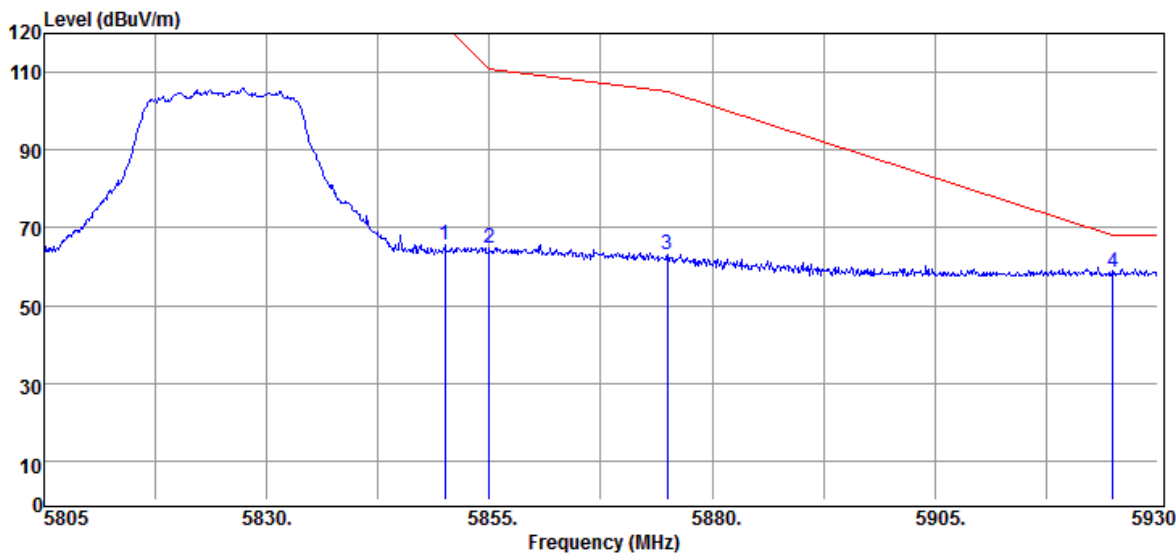
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Operation Mode :802.11n20 / Band4
 Test Mode :BE CH High
 EUT Pol :E1 Plan
 Test Channel :5825 MHz

Test Date :2018-08-22
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	63.56	1.88	65.44	122.20	-56.76
5855.00	Peak	63.02	1.89	64.91	110.80	-45.89
5875.00	Peak	61.17	1.90	63.07	105.20	-42.13
5925.00	Peak	56.42	2.16	58.58	68.20	-9.62

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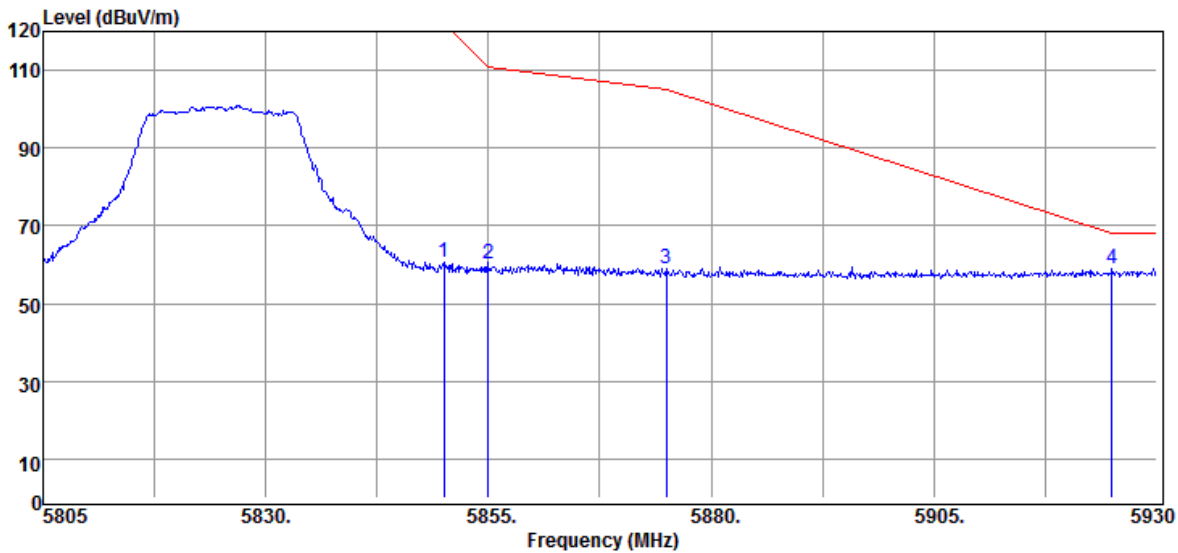
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Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	58.74	1.88	60.62	122.20	-61.58
5855.00	Peak	58.48	1.89	60.37	110.80	-50.43
5875.00	Peak	57.20	1.90	59.10	105.20	-46.10
5925.00	Peak	56.66	2.16	58.82	68.20	-9.38

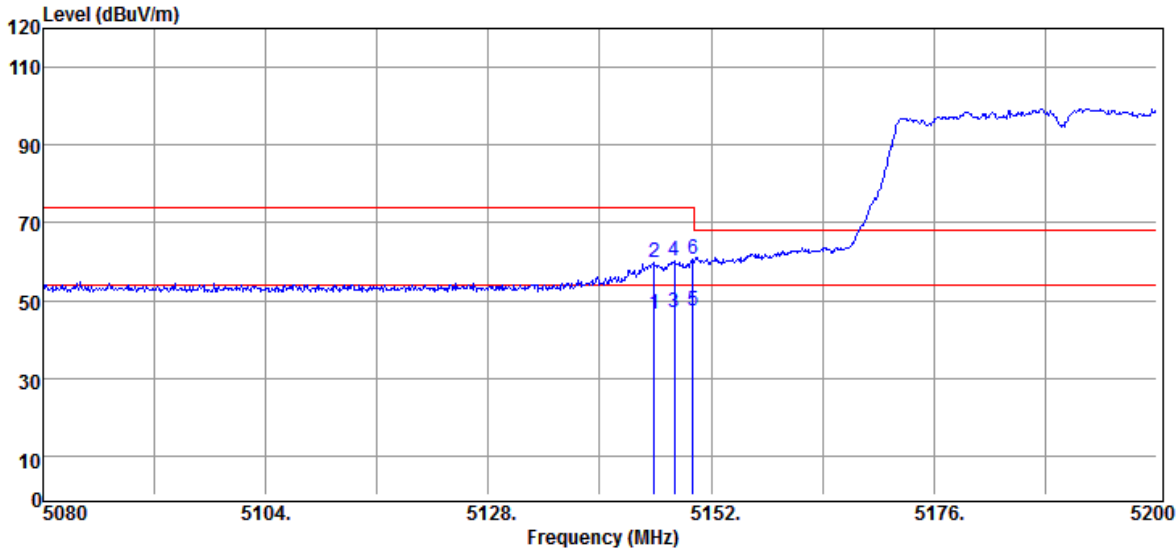
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802.11n40 HT mode

Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



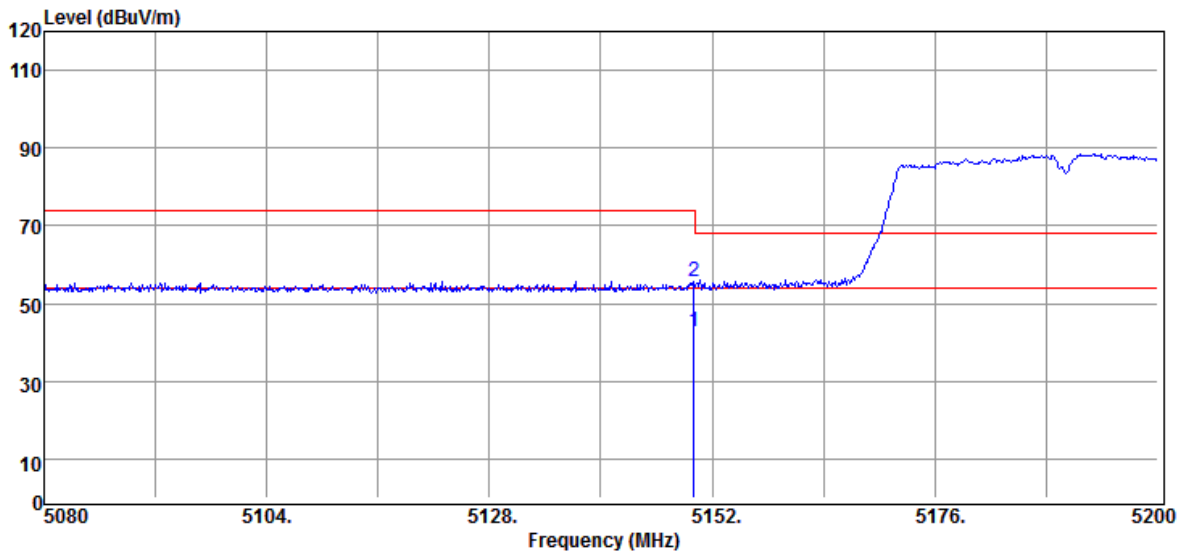
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.88	Average	44.73	1.83	46.56	54.00	-7.44
5145.88	Peak	57.86	1.83	59.69	74.00	-14.31
5148.04	Average	45.09	1.84	46.93	54.00	-7.07
5148.04	Peak	58.42	1.84	60.26	74.00	-13.74
5150.00	Average	45.37	1.84	47.21	54.00	-6.79
5150.00	Peak	58.97	1.84	60.81	74.00	-13.19

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Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



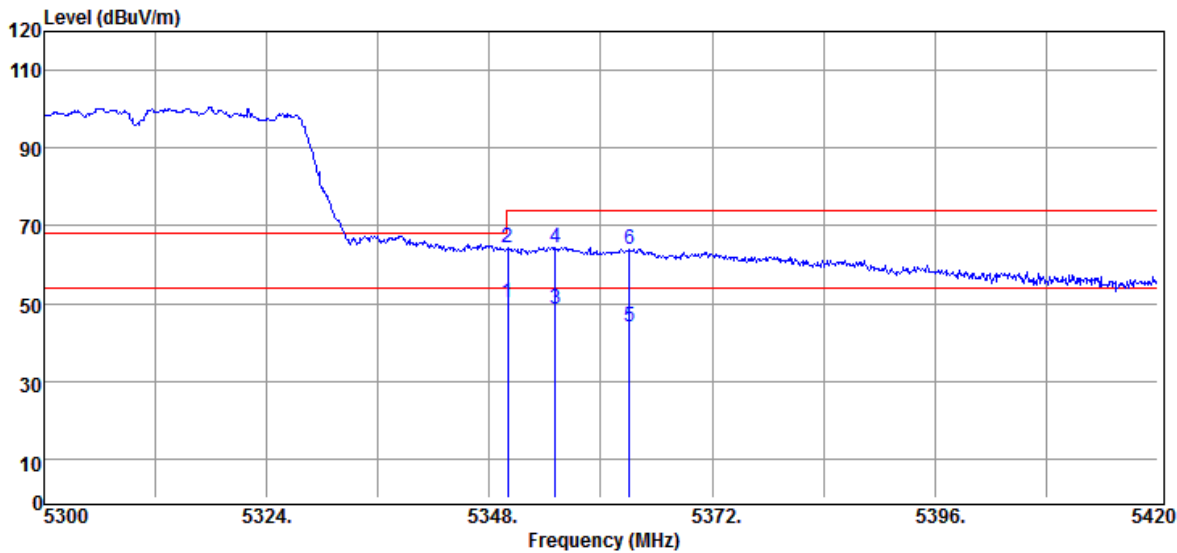
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	40.74	1.84	42.58	54.00	-11.42
5150.00	Peak	53.66	1.84	55.50	74.00	-18.50

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Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	48.15	2.24	50.39	54.00	-3.61
5350.00	Peak	62.16	2.24	64.40	74.00	-9.60
5355.08	Average	46.33	2.25	48.58	54.00	-5.42
5355.08	Peak	62.31	2.25	64.56	74.00	-9.44
5363.12	Average	41.68	2.30	43.98	54.00	-10.02
5363.12	Peak	61.84	2.30	64.14	74.00	-9.86

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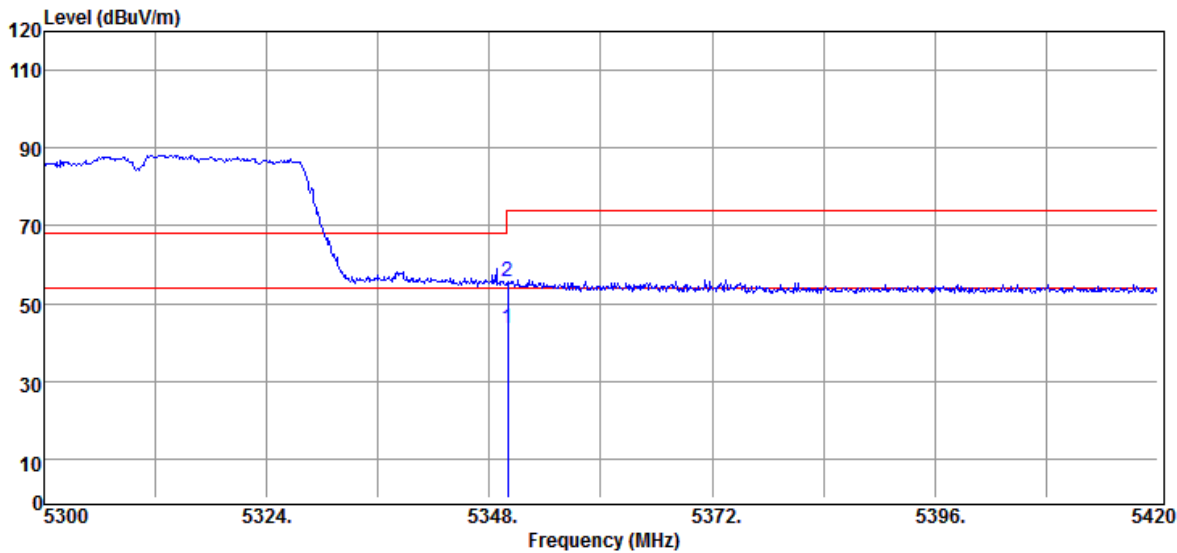
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Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Jerry



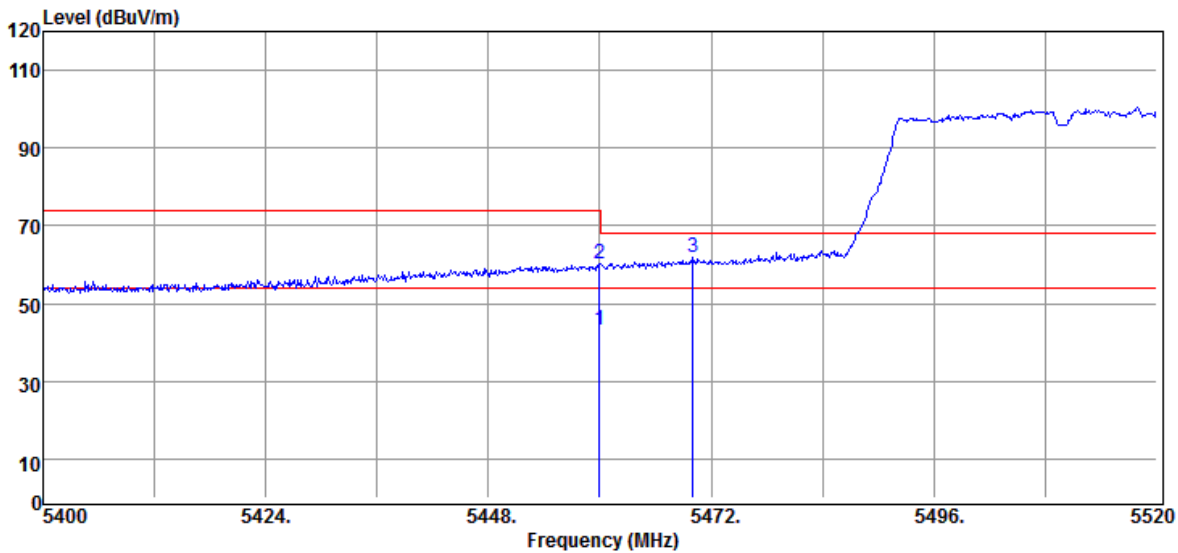
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	41.37	2.24	43.61	54.00	-10.39
5350.00	Peak	53.33	2.24	55.57	74.00	-18.43

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Jerry



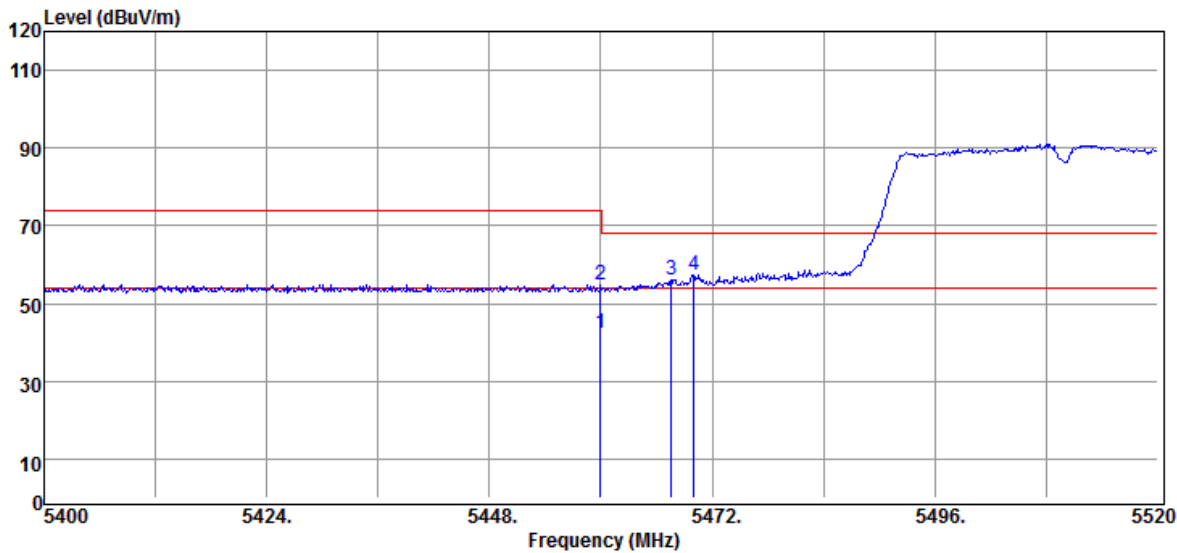
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	41.12	2.22	43.34	54.00	-10.66
5460.00	Peak	58.12	2.22	60.34	74.00	-13.66
5470.00	Peak	59.69	2.18	61.87	68.20	-6.33

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Jerry



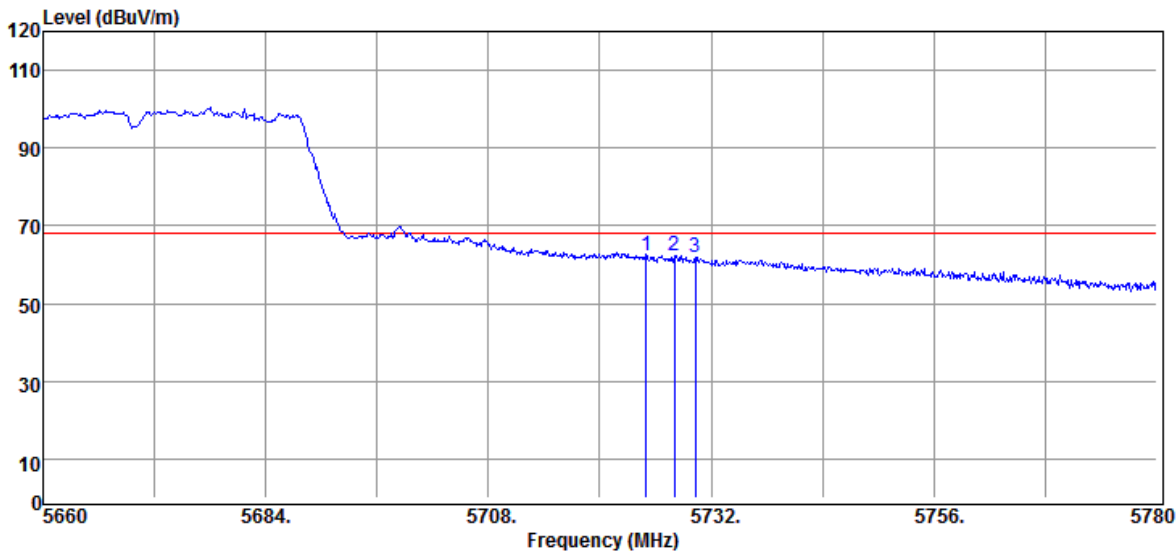
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	40.23	2.22	42.45	54.00	-11.55
5460.00	Peak	52.62	2.22	54.84	74.00	-19.16
5467.56	Peak	53.99	2.19	56.18	68.20	-12.02
5470.00	Peak	55.28	2.18	57.46	68.20	-10.74

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Jerry



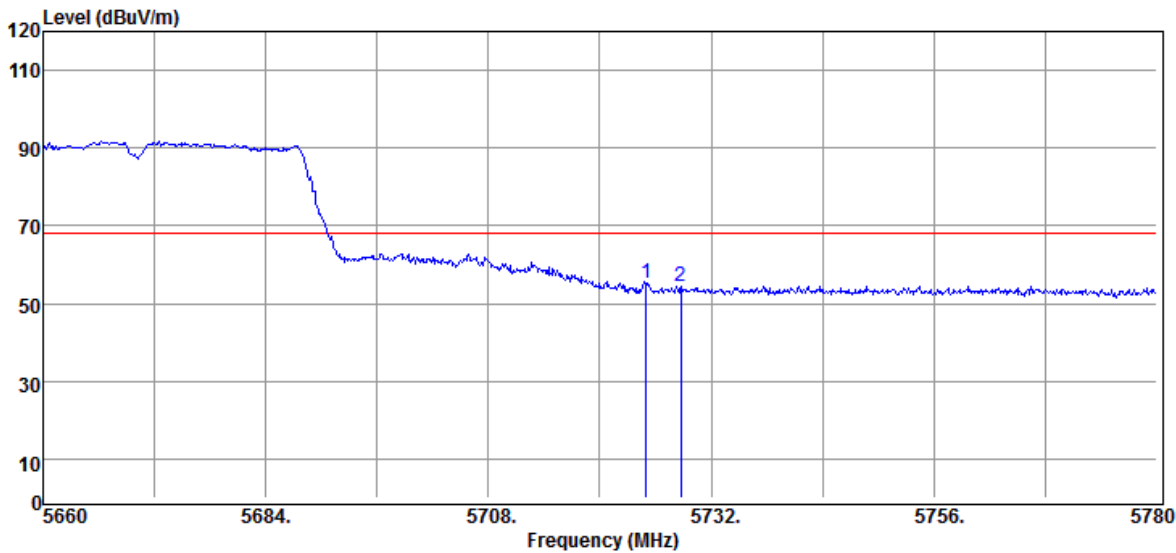
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	60.00	2.28	62.28	68.20	-5.92
5728.04	Peak	60.09	2.26	62.35	68.20	-5.85
5730.32	Peak	59.68	2.25	61.93	68.20	-6.27

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Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Jerry



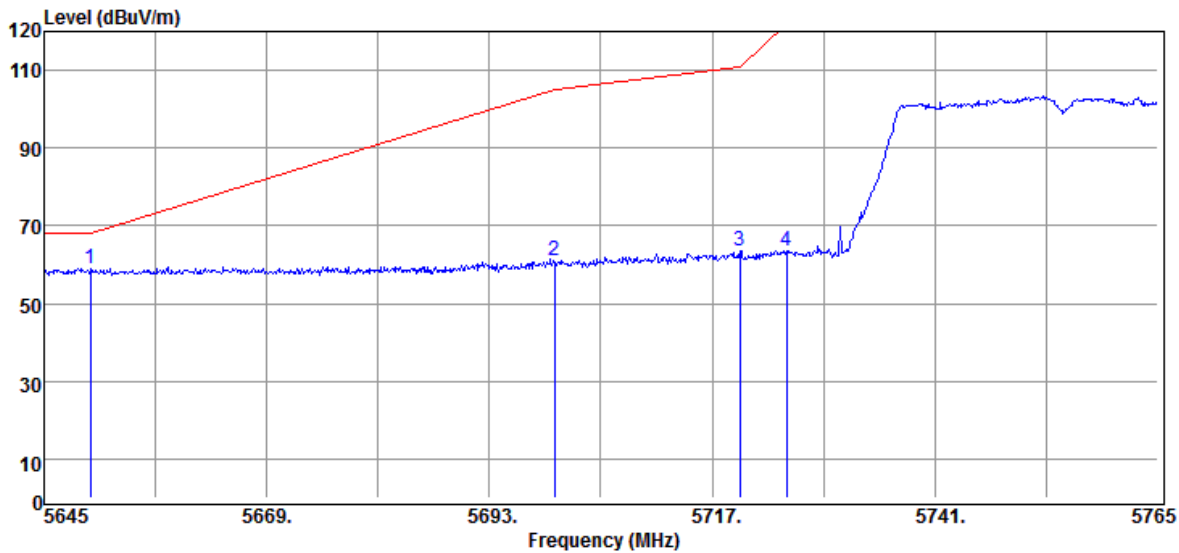
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	52.90	2.28	55.18	68.20	-13.02
5728.76	Peak	52.23	2.26	54.49	68.20	-13.71

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry



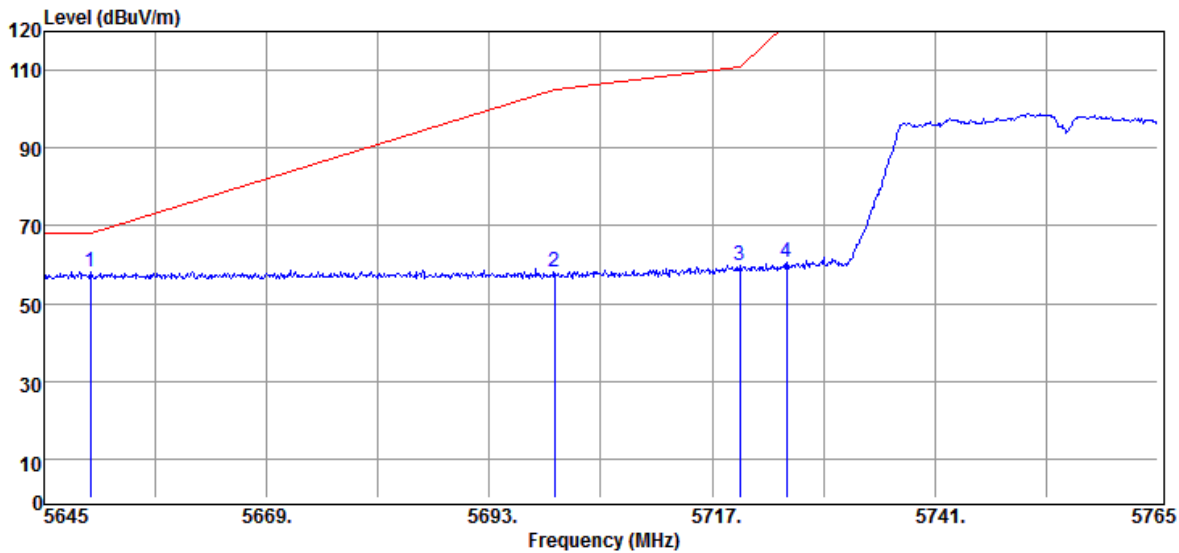
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	56.59	2.25	58.84	68.20	-9.36
5700.00	Peak	58.43	2.42	60.85	105.20	-44.35
5720.00	Peak	61.10	2.32	63.42	110.80	-47.38
5725.00	Peak	61.42	2.28	63.70	122.20	-58.50

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Jerry



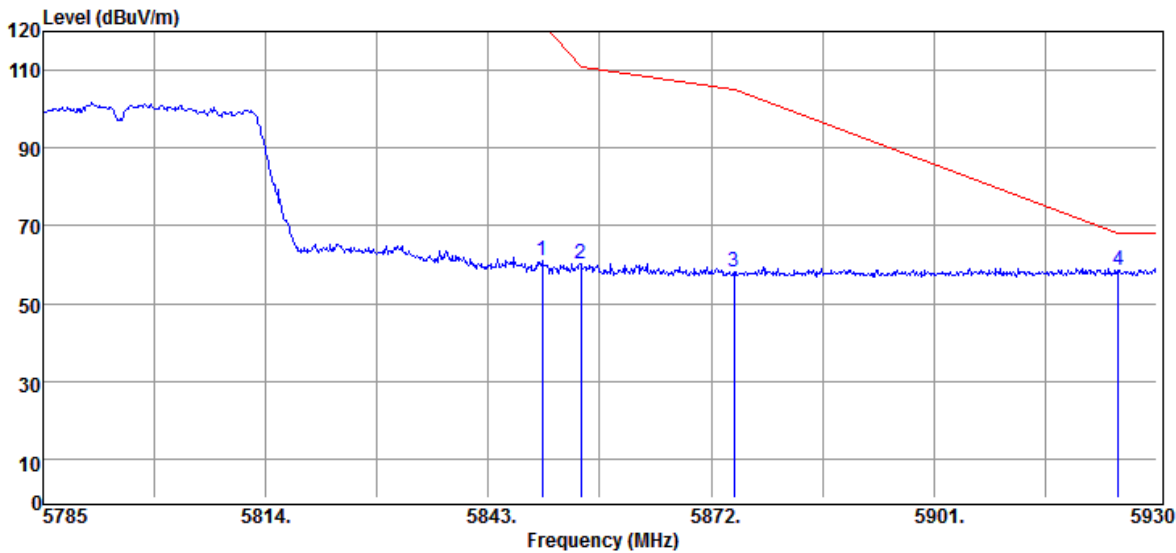
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	55.70	2.25	57.95	68.20	-10.25
5700.00	Peak	55.59	2.42	58.01	105.20	-47.19
5720.00	Peak	57.40	2.32	59.72	110.80	-51.08
5725.00	Peak	58.29	2.28	60.57	122.20	-61.63

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Jerry



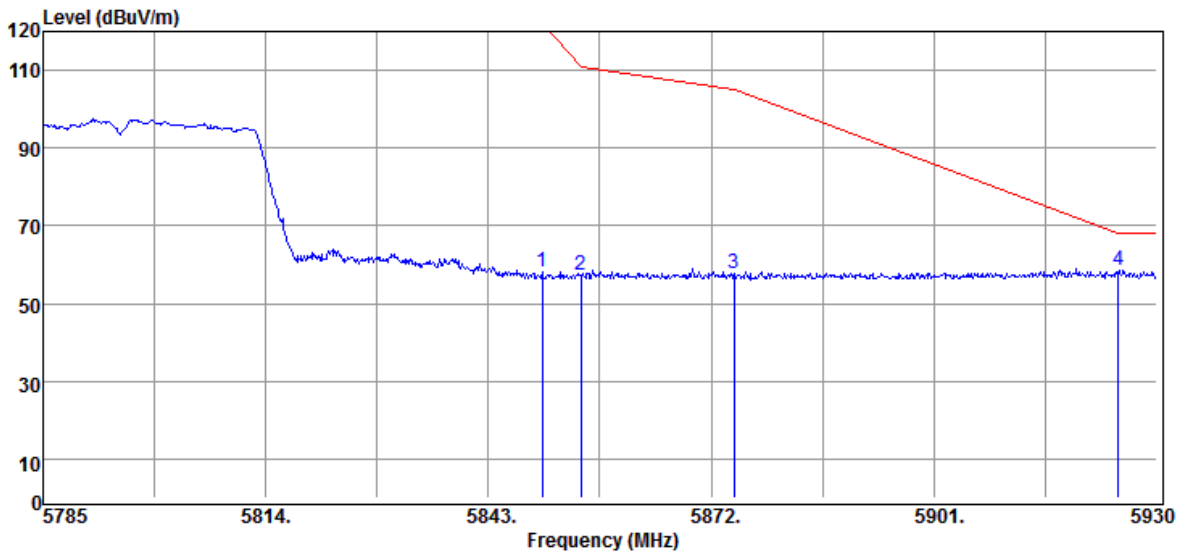
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	59.28	1.88	61.16	122.20	-61.04
5855.00	Peak	58.16	1.89	60.05	110.80	-50.75
5875.00	Peak	56.36	1.90	58.26	105.20	-46.94
5925.00	Peak	56.51	2.16	58.67	68.20	-9.53

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Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	56.25	1.88	58.13	122.20	-64.07
5855.00	Peak	55.25	1.89	57.14	110.80	-53.66
5875.00	Peak	55.77	1.90	57.67	105.20	-47.53
5925.00	Peak	56.36	2.16	58.52	68.20	-9.68

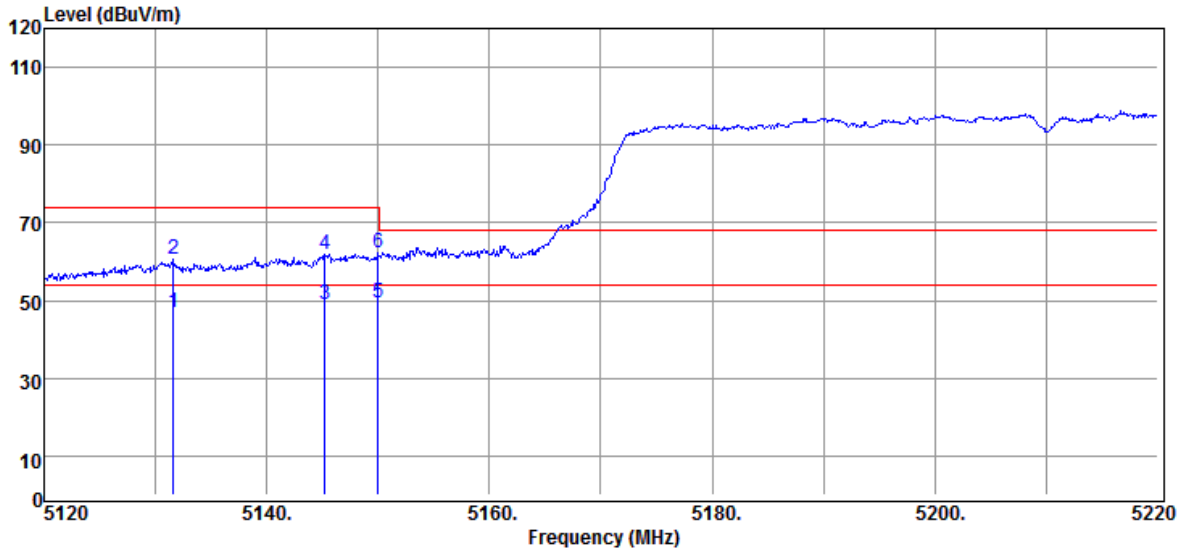
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802.11ac80 VHT mode

Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Jerry



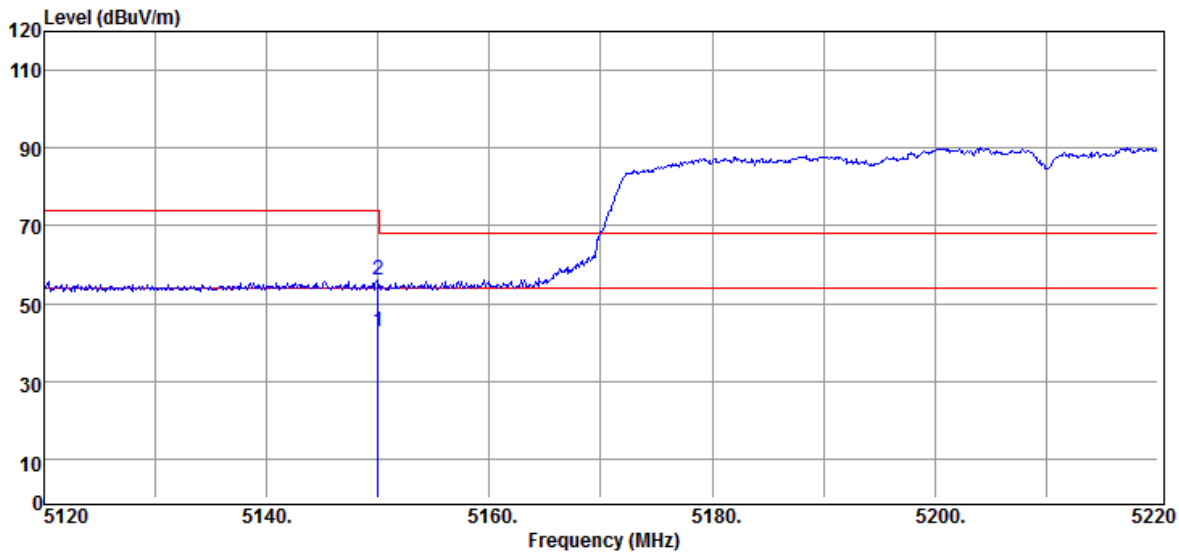
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5131.60	Average	45.23	1.78	47.01	54.00	-6.99
5131.60	Peak	58.92	1.78	60.70	74.00	-13.30
5145.20	Average	47.23	1.83	49.06	54.00	-4.94
5145.20	Peak	59.97	1.83	61.80	74.00	-12.20
5150.00	Average	47.74	1.84	49.58	54.00	-4.42
5150.00	Peak	60.29	1.84	62.13	74.00	-11.87

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Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Jerry



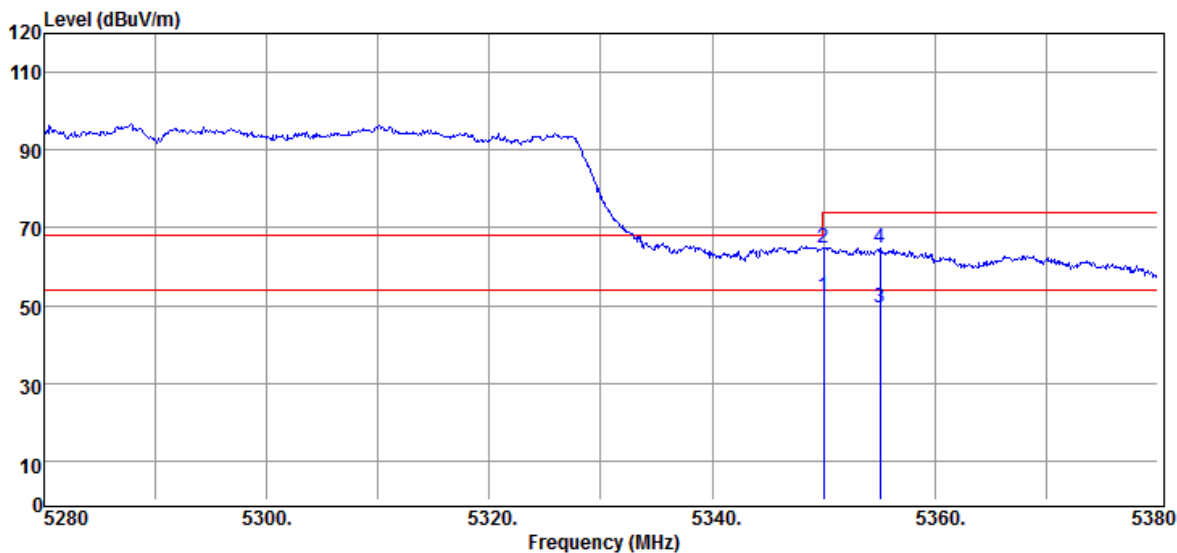
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	41.00	1.84	42.84	54.00	-11.16
5150.00	Peak	54.24	1.84	56.08	74.00	-17.92

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Operation Mode	:802.11ac80 / Band2	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Jerry



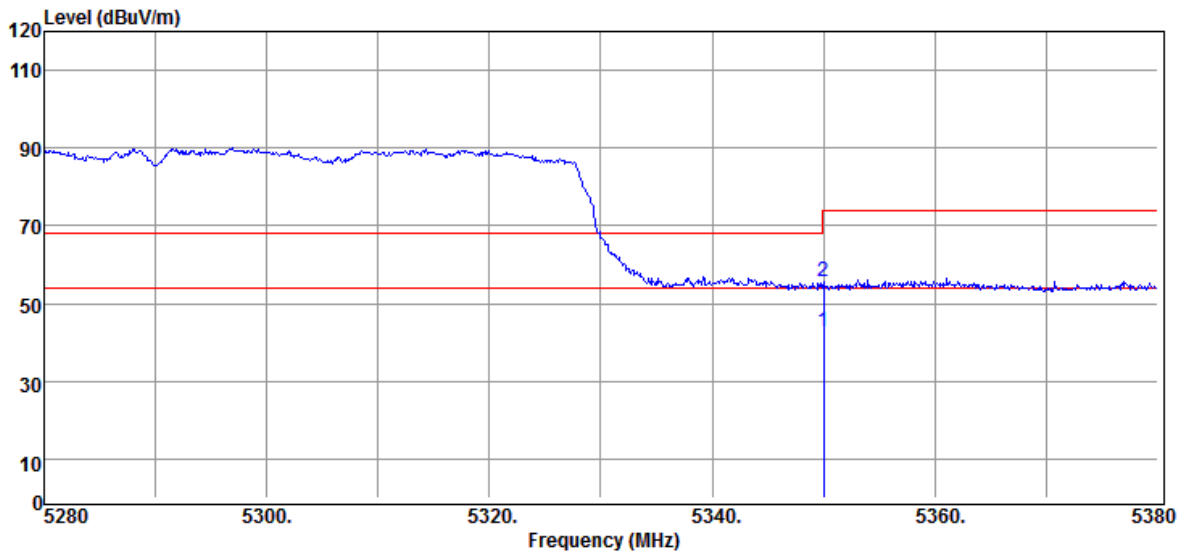
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	50.20	2.24	52.44	54.00	-1.56
5350.00	Peak	62.48	2.24	64.72	74.00	-9.28
5355.10	Average	47.00	2.25	49.25	54.00	-4.75
5355.10	Peak	62.40	2.25	64.65	74.00	-9.35

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Operation Mode	:802.11ac80 / Band2	Test Date	:2018-08-23
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Jerry



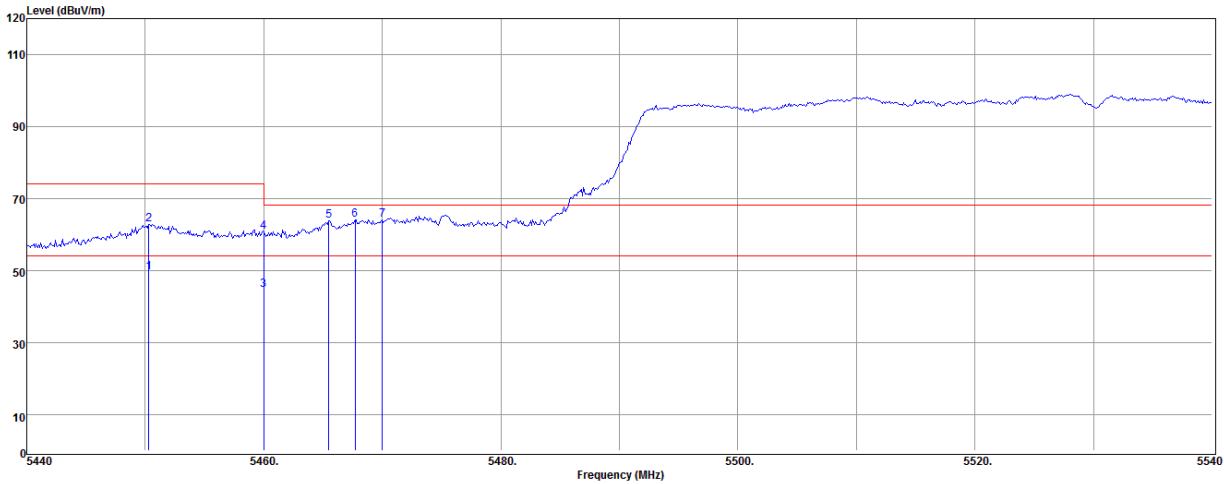
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	40.53	2.24	42.77	54.00	-11.23
5350.00	Peak	53.32	2.24	55.56	74.00	-18.44

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Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-22
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5450.30	Average	47.14	2.26	49.40	54.00	-4.60
5450.30	Peak	60.61	2.26	62.87	74.00	-11.13
5460.00	Average	42.39	2.22	44.61	54.00	-9.39
5460.00	Peak	58.59	2.22	60.81	74.00	-13.19
5465.50	Peak	61.65	2.20	63.85	68.20	-4.35
5467.70	Peak	61.99	2.19	64.18	68.20	-4.02
5470.00	Peak	61.94	2.18	64.12	68.20	-4.08

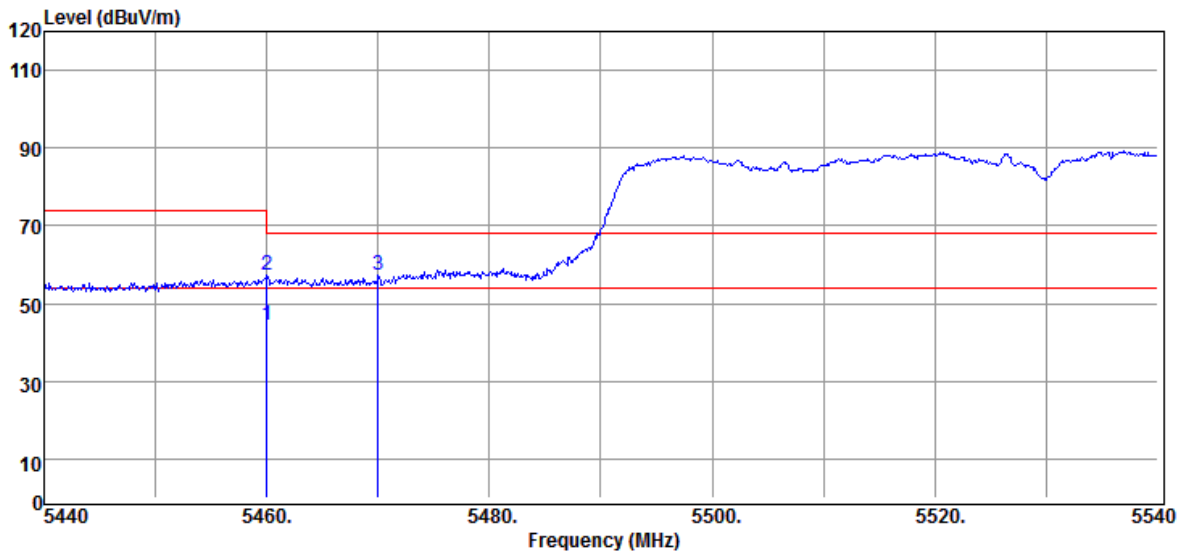
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Operation Mode :802.11ac80 / Band3
 Test Mode :BE CH Low
 EUT Pol :E1 Plan
 Test Channel :5530 MHz

Test Date :2018-08-22
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



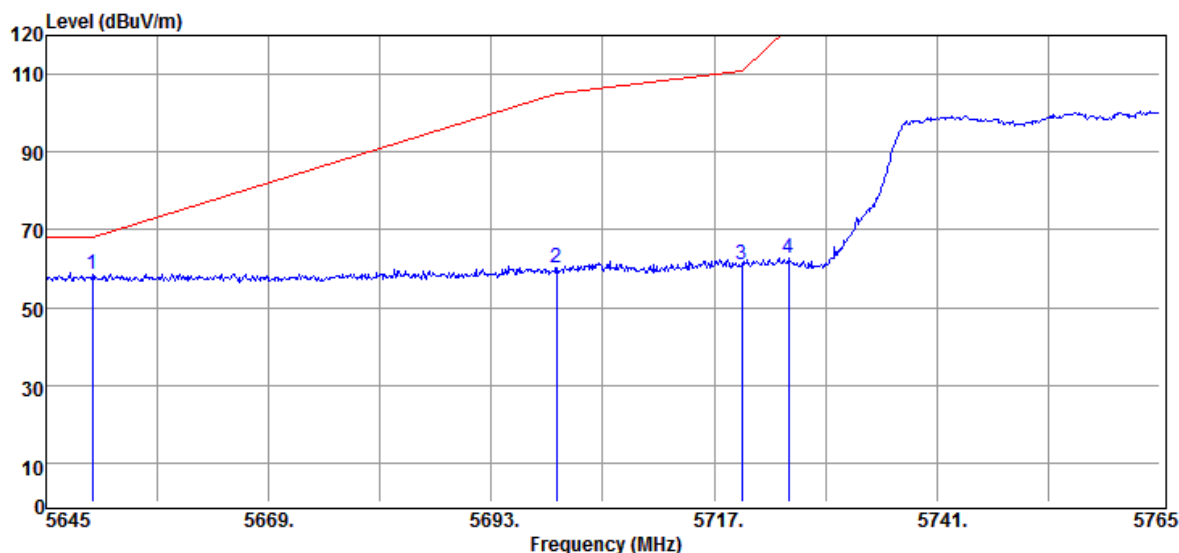
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	42.31	2.22	44.53	54.00	-9.47
5460.00	Peak	54.90	2.22	57.12	74.00	-16.88
5470.00	Peak	54.92	2.18	57.10	68.20	-11.10

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Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-23
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	56.31	2.25	58.56	68.20	-9.64
5700.00	Peak	57.82	2.42	60.24	105.20	-44.96
5720.00	Peak	58.61	2.32	60.93	110.80	-49.87
5725.00	Peak	60.45	2.28	62.73	122.20	-59.47

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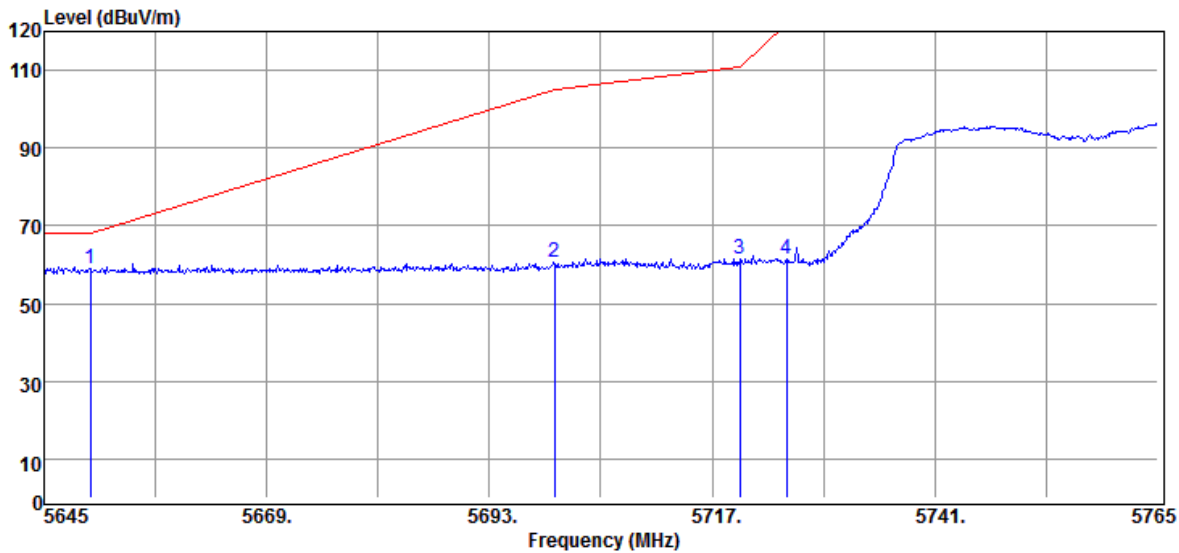
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Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-23
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	56.88	2.25	59.13	68.20	-9.07
5700.00	Peak	58.14	2.42	60.56	105.20	-44.64
5720.00	Peak	59.05	2.32	61.37	110.80	-49.43
5725.00	Peak	59.38	2.28	61.66	122.20	-60.54

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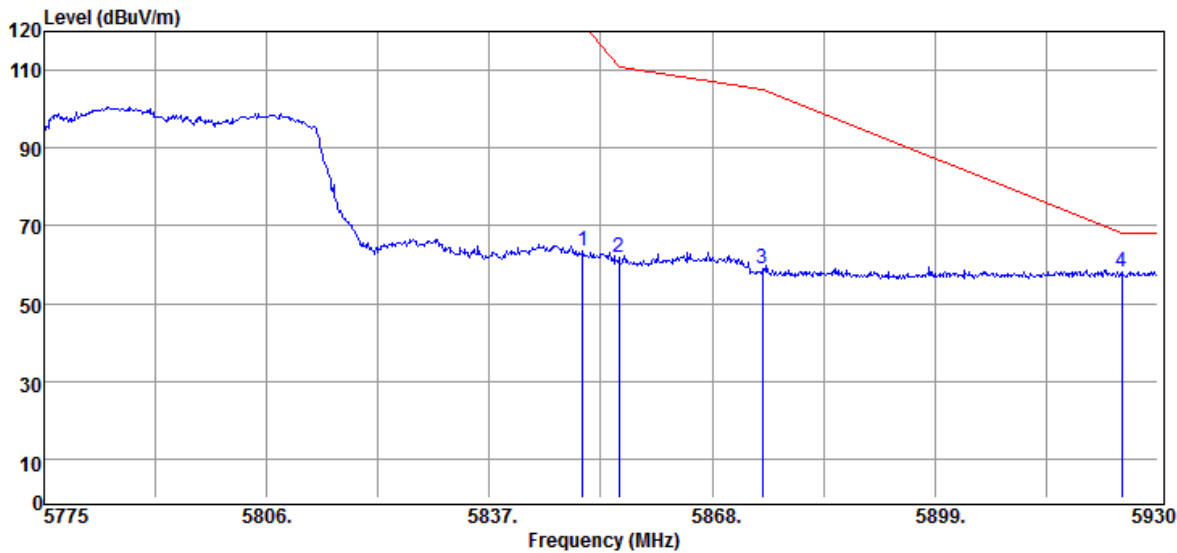
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Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-23
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



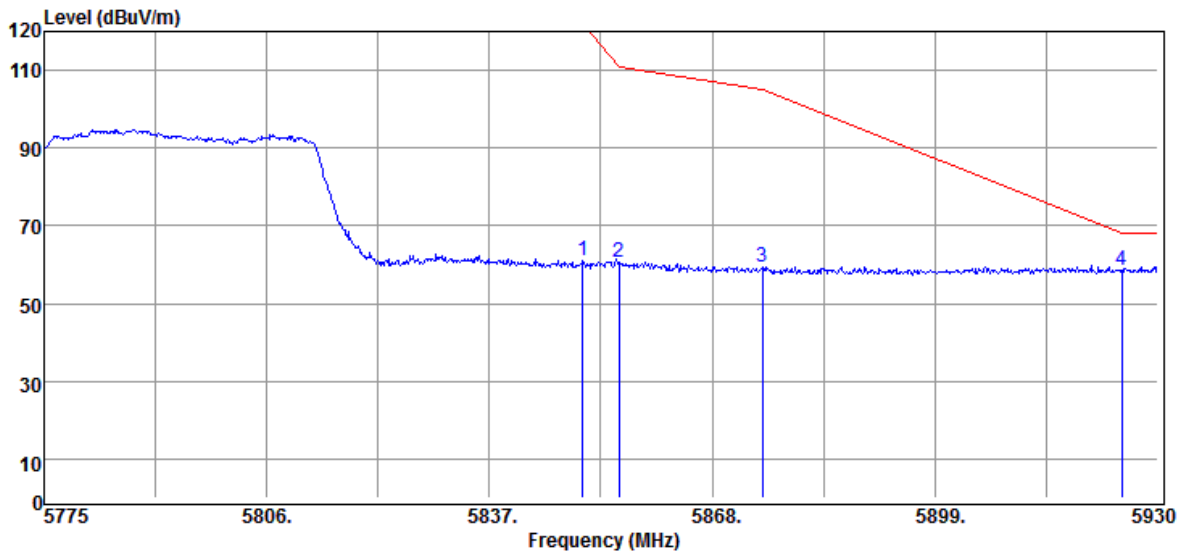
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	61.71	1.88	63.59	122.20	-58.61
5855.00	Peak	60.02	1.89	61.91	110.80	-48.89
5875.00	Peak	57.22	1.90	59.12	105.20	-46.08
5925.00	Peak	55.95	2.16	58.11	68.20	-10.09

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Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-22
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	59.10	1.88	60.98	122.20	-61.22
5855.00	Peak	58.83	1.89	60.72	110.80	-50.08
5875.00	Peak	57.29	1.90	59.19	105.20	-46.01
5925.00	Peak	56.58	2.16	58.74	68.20	-9.46

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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

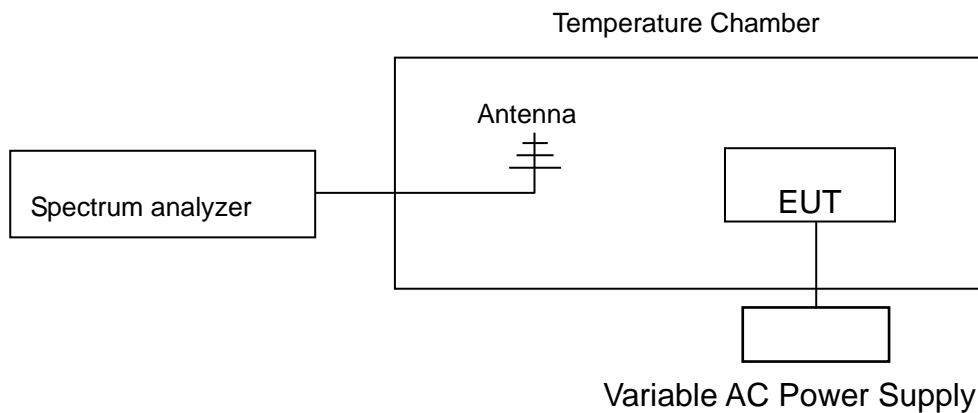
13.1 Standard Applicable

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					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/6/19
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	36	5180	5,179.93052	0.00001341
		44	5220	5,219.96379	0.00000694
		48	5240	5,239.99000	0.00000191
		52	5260	5,259.96222	0.00000718
		60	5300	5,299.99788	0.00000040
		64	5320	5,319.93769	0.00001171
		100	5500	5,499.96955	0.00000554
		116	5580	5,579.96937	0.00000549
		140	5700	5,699.91642	0.00001466
		144	5720	5,719.96595	0.00000595
		149	5745	5,744.92822	0.00001249
		157	5785	5,784.92266	0.00001337
		165	5825	5,824.90200	0.00001682
		10.8V	36	5180	5,179.96690
	44		5220	5,219.92470	0.00001443
	48		5240	5,239.99131	0.00000166
	52		5260	5,259.97647	0.00000447
	60		5300	5,299.90553	0.00001782
	64		5320	5,319.99181	0.00000154
	100		5500	5,499.97153	0.00000518
	116		5580	5,579.94307	0.00001020
	140		5700	5,699.96880	0.00000547
	144		5720	5,719.91498	0.00001486
	149		5745	5,744.98517	0.00000258
	157		5785	5,784.95964	0.00000698
	165	5825	5,824.96153	0.00000660	

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25	12V	36	5180	5,179.99067	0.00000180
		44	5220	5,219.92783	0.00001383
		48	5240	5,239.90793	0.00001757
		52	5260	5,259.95136	0.00000925
		60	5300	5,299.99459	0.00000102
		64	5320	5,319.90473	0.00001791
		100	5500	5,499.97352	0.00000481
		116	5580	5,579.92089	0.00001418
		140	5700	5,699.91940	0.00001414
		144	5720	5,719.91191	0.00001540
		149	5745	5,744.96334	0.00000638
		157	5785	5,784.95328	0.00000808
		165	5825	5,824.94790	0.00000894
40	13.2V	36	5180	5,179.95738	0.00000823
		44	5220	5,219.98756	0.00000238
		48	5240	5,239.94700	0.00001011
		52	5260	5,259.96088	0.00000744
		60	5300	5,299.95968	0.00000761
		64	5320	5,319.97296	0.00000508
		100	5500	5,499.98064	0.00000352
		116	5580	5,579.91980	0.00001437
		140	5700	5,699.91578	0.00001478
		144	5720	5,719.94753	0.00000917
		149	5745	5,744.90102	0.00001723
		157	5785	5,784.92572	0.00001284
		165	5825	5,824.94831	0.00000887
	10.8V	36	5180	5,179.96857	0.00000607
		44	5220	5,219.96552	0.00000661
		48	5240	5,239.91051	0.00001708
		52	5260	5,259.90465	0.00001813
		60	5300	5,299.94170	0.00001100
		64	5320	5,319.91123	0.00001669
		100	5500	5,499.95816	0.00000761
		116	5580	5,579.95964	0.00000723
		140	5700	5,699.99823	0.00000031
		144	5720	5,719.99486	0.00000090
		149	5745	5,744.99126	0.00000152
		157	5785	5,784.94995	0.00000865
		165	5825	5,824.94995	0.00000859

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Operation Mode	802.11 n_HT40	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	38	5190	5,189.92110	0.00001520
		46	5230	5,229.98260	0.00000333
		54	5270	5,269.92976	0.00001333
		62	5310	5,309.92059	0.00001495
		102	5510	5,509.93691	0.00001145
		110	5550	5,549.96823	0.00000572
		134	5670	5,669.97307	0.00000475
		142	5710	5,709.91652	0.00001462
		151	5755	5,754.97072	0.00000509
		159	5795	5,794.90605	0.00001621
	10.8V	38	5190	5,189.91256	0.00001685
		46	5230	5,229.98859	0.00000218
		54	5270	5,269.94927	0.00000963
		62	5310	5,309.90875	0.00001718
		102	5510	5,509.92111	0.00001432
		110	5550	5,549.96644	0.00000605
		134	5670	5,669.90236	0.00001722
		142	5710	5,709.95193	0.00000842
		151	5755	5,754.93808	0.00001076
		159	5795	5,794.99495	0.00000087

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25	12V	38	5190	5,189.93477	0.00001257
		46	5230	5,229.96168	0.00000733
		54	5270	5,269.98765	0.00000234
		62	5310	5,309.99816	0.00000035
		102	5510	5,509.99628	0.00000068
		110	5550	5,549.99467	0.00000096
		134	5670	5,669.96278	0.00000656
		142	5710	5,709.93723	0.00001099
		151	5755	5,754.98543	0.00000253
		159	5795	5,794.97291	0.00000467
40	13.2V	38	5190	5,189.93969	0.00001162
		46	5230	5,229.90257	0.00001863
		54	5270	5,269.91438	0.00001625
		62	5310	5,309.90372	0.00001813
		102	5510	5,509.95866	0.00000750
		110	5550	5,549.98704	0.00000234
		134	5670	5,669.92455	0.00001331
		142	5710	5,709.94108	0.00001032
		151	5755	5,754.94341	0.00000983
		159	5795	5,794.98112	0.00000326
	10.8V	38	5190	5,189.92812	0.00001385
		46	5230	5,229.93795	0.00001186
		54	5270	5,269.99259	0.00000141
		62	5310	5,309.92747	0.00001366
		102	5510	5,509.94855	0.00000934
		110	5550	5,549.90330	0.00001742
		134	5670	5,669.95396	0.00000812
		142	5710	5,709.90218	0.00001713
		151	5755	5,754.99769	0.00000040
		159	5795	5,794.97803	0.00000379

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	36	5180	5,179.94920	0.00000981
		44	5220	5,219.95714	0.00000821
		48	5240	5,239.97297	0.00000516
		52	5260	5,259.93460	0.00001243
		60	5300	5,299.96372	0.00000685
		64	5320	5,319.99216	0.00000147
		100	5500	5,499.98631	0.00000249
		116	5580	5,579.95908	0.00000733
		140	5700	5,699.97342	0.00000466
		144	5720	5,719.97159	0.00000497
		149	5745	5,744.96354	0.00000635
		157	5785	5,784.91860	0.00001407
	165	5825	5,824.94294	0.00000980	
	10.8V	36	5180	5,179.94200	0.00001120
		44	5220	5,219.98122	0.00000360
		48	5240	5,239.94917	0.00000970
		52	5260	5,259.96985	0.00000573
		60	5300	5,299.99638	0.00000068
		64	5320	5,319.97318	0.00000504
		100	5500	5,499.92129	0.00001431
		116	5580	5,579.99099	0.00000161
		140	5700	5,699.95615	0.00000769
		144	5720	5,719.97284	0.00000475
		149	5745	5,744.94726	0.00000918
157		5785	5,784.92398	0.00001314	
165	5825	5,824.95922	0.00000700		

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25	12V	36	5180	5,179.99088	0.00000176
		44	5220	5,219.97528	0.00000474
		48	5240	5,239.91435	0.00001635
		52	5260	5,259.96683	0.00000631
		60	5300	5,299.90369	0.00001817
		64	5320	5,319.91492	0.00001599
		100	5500	5,499.92439	0.00001375
		116	5580	5,579.95310	0.00000841
		140	5700	5,699.93038	0.00001221
		144	5720	5,719.98476	0.00000266
		149	5745	5,744.99533	0.00000081
		157	5785	5,784.91557	0.00001459
		165	5825	5,824.95841	0.00000714
40	13.2V	36	5180	5,179.99139	0.00000166
		44	5220	5,219.98217	0.00000342
		48	5240	5,239.95900	0.00000782
		52	5260	5,259.94861	0.00000977
		60	5300	5,299.90795	0.00001737
		64	5320	5,319.95367	0.00000871
		100	5500	5,499.95992	0.00000729
		116	5580	5,579.96304	0.00000662
		140	5700	5,699.95343	0.00000817
		144	5720	5,719.97467	0.00000443
		149	5745	5,744.98664	0.00000233
		157	5785	5,784.90757	0.00001598
		165	5825	5,824.93048	0.00001193
	10.8V	36	5180	5,179.96884	0.00000602
		44	5220	5,219.96842	0.00000605
		48	5240	5,239.99946	0.00000010
		52	5260	5,259.93717	0.00001194
		60	5300	5,299.98300	0.00000321
		64	5320	5,319.92316	0.00001444
		100	5500	5,499.99123	0.00000159
		116	5580	5,579.92025	0.00001429
		140	5700	5,699.97843	0.00000378
		144	5720	5,719.90603	0.00001643
		149	5745	5,744.96760	0.00000564
		157	5785	5,784.91728	0.00001430
		165	5825	5,824.94038	0.00001024

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Operation Mode	802.11 n_HT40	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	38	5190	5,189.92265	0.00001490
		46	5230	5,229.96481	0.00000673
		54	5270	5,269.98984	0.00000193
		62	5310	5,309.97570	0.00000458
		102	5510	5,509.93513	0.00001177
		110	5550	5,549.93264	0.00001214
		134	5670	5,669.98339	0.00000293
		142	5710	5,709.95181	0.00000844
		151	5755	5,754.92934	0.00001228
	159	5795	5,794.92098	0.00001364	
	10.8V	38	5190	5,189.98471	0.00000295
		46	5230	5,229.94532	0.00001046
		54	5270	5,269.94409	0.00001061
		62	5310	5,309.93581	0.00001209
		102	5510	5,509.98139	0.00000338
		110	5550	5,549.96771	0.00000582
		134	5670	5,669.94144	0.00001033
		142	5710	5,709.98514	0.00000260
151		5755	5,754.90842	0.00001591	
159	5795	5,794.90048	0.00001717		

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25	12V	38	5190	5,189.94277	0.00001103
		46	5230	5,229.93127	0.00001314
		54	5270	5,269.92651	0.00001394
		62	5310	5,309.95197	0.00000905
		102	5510	5,509.94790	0.00000946
		110	5550	5,549.90869	0.00001645
		134	5670	5,669.96806	0.00000563
		142	5710	5,709.95244	0.00000833
		151	5755	5,754.91669	0.00001448
		159	5795	5,794.98227	0.00000306
40	13.2V	38	5190	5,189.97813	0.00000421
		46	5230	5,229.98490	0.00000289
		54	5270	5,269.95999	0.00000759
		62	5310	5,309.95142	0.00000915
		102	5510	5,509.94098	0.00001071
		110	5550	5,549.99683	0.00000057
		134	5670	5,669.99422	0.00000102
		142	5710	5,709.91295	0.00001525
		151	5755	5,754.95549	0.00000773
		159	5795	5,794.97351	0.00000457
	10.8V	38	5190	5,189.92712	0.00001404
		46	5230	5,229.92368	0.00001459
		54	5270	5,269.99729	0.00000051
		62	5310	5,309.95028	0.00000936
		102	5510	5,509.99387	0.00000111
		110	5550	5,549.95814	0.00000754
		134	5670	5,669.92194	0.00001377
		142	5710	5,709.95690	0.00000755
		151	5755	5,754.98383	0.00000281
		159	5795	5,794.97736	0.00000391

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	36	5180	5,179.97250	0.00000531
		44	5220	5,219.93188	0.00001305
		48	5240	5,239.96231	0.00000719
		52	5260	5,259.91937	0.00001533
		60	5300	5,299.93535	0.00001220
		64	5320	5,319.97563	0.00000458
		100	5500	5,499.97992	0.00000365
		116	5580	5,579.92564	0.00001333
		140	5700	5,699.92963	0.00001235
		144	5720	5,719.97626	0.00000415
		149	5745	5,744.93415	0.00001146
		157	5785	5,784.97885	0.00000366
		165	5825	5,824.99223	0.00000133
		10.8V	36	5180	5,179.97995
	44		5220	5,219.91842	0.00001563
	48		5240	5,239.97139	0.00000546
	52		5260	5,259.95248	0.00000903
	60		5300	5,299.98385	0.00000305
	64		5320	5,319.94191	0.00001092
	100		5500	5,499.93518	0.00001179
	116		5580	5,579.90863	0.00001637
	140		5700	5,699.95808	0.00000735
	144		5720	5,719.94371	0.00000984
	149		5745	5,744.92788	0.00001255
	157		5785	5,784.97715	0.00000395
	165	5825	5,824.90522	0.00001627	

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25	12V	36	5180	5,179.94235	0.00001113
		44	5220	5,219.92532	0.00001431
		48	5240	5,239.91753	0.00001574
		52	5260	5,259.94794	0.00000990
		60	5300	5,299.95740	0.00000804
		64	5320	5,319.99396	0.00000114
		100	5500	5,499.93777	0.00001131
		116	5580	5,579.93621	0.00001143
		140	5700	5,699.91158	0.00001551
		144	5720	5,719.98130	0.00000327
		149	5745	5,744.93084	0.00001204
		157	5785	5,784.90121	0.00001708
		165	5825	5,824.98991	0.00000173
40	13.2V	36	5180	5,179.96470	0.00000681
		44	5220	5,219.94748	0.00001006
		48	5240	5,239.95319	0.00000893
		52	5260	5,259.90237	0.00001856
		60	5300	5,299.96576	0.00000646
		64	5320	5,319.95219	0.00000899
		100	5500	5,499.96825	0.00000577
		116	5580	5,579.97153	0.00000510
		140	5700	5,699.99608	0.00000069
		144	5720	5,719.92121	0.00001377
		149	5745	5,744.96540	0.00000602
		157	5785	5,784.99436	0.00000097
		165	5825	5,824.94662	0.00000916
	10.8V	36	5180	5,179.95509	0.00000867
		44	5220	5,219.97175	0.00000541
		48	5240	5,239.94202	0.00001106
		52	5260	5,259.94800	0.00000989
		60	5300	5,299.96536	0.00000654
		64	5320	5,319.93566	0.00001209
		100	5500	5,499.90267	0.00001770
		116	5580	5,579.91840	0.00001462
		140	5700	5,699.98928	0.00000188
		144	5720	5,719.99066	0.00000163
		149	5745	5,744.91528	0.00001475
		157	5785	5,784.98814	0.00000205
		165	5825	5,824.98725	0.00000219

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Operation Mode	802.11 n_HT40	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	38	5190	5,189.98058	0.00000374
		46	5230	5,229.99049	0.00000182
		54	5270	5,269.99757	0.00000046
		62	5310	5,309.92541	0.00001405
		102	5510	5,509.93049	0.00001262
		110	5550	5,549.99060	0.00000169
		134	5670	5,669.91095	0.00001571
		142	5710	5,709.91313	0.00001521
		151	5755	5,754.98227	0.00000308
		159	5795	5,794.92670	0.00001265
	10.8V	38	5190	5,189.99891	0.00000021
		46	5230	5,229.96864	0.00000600
		54	5270	5,269.99485	0.00000098
		62	5310	5,309.97783	0.00000418
		102	5510	5,509.92264	0.00001404
		110	5550	5,549.97404	0.00000468
		134	5670	5,669.97900	0.00000370
		142	5710	5,709.98829	0.00000205
		151	5755	5,754.97207	0.00000485
		159	5795	5,794.97723	0.00000393

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25	12V	38	5190	5,189.92019	0.00001538
		46	5230	5,229.91519	0.00001622
		54	5270	5,269.97156	0.00000540
		62	5310	5,309.97594	0.00000453
		102	5510	5,509.98345	0.00000300
		110	5550	5,549.90638	0.00001687
		134	5670	5,669.90007	0.00001762
		142	5710	5,709.96262	0.00000655
		151	5755	5,754.94422	0.00000969
		159	5795	5,794.98863	0.00000196
40	13.2V	38	5190	5,189.97868	0.00000411
		46	5230	5,229.91070	0.00001707
		54	5270	5,269.92253	0.00001470
		62	5310	5,309.99204	0.00000150
		102	5510	5,509.97425	0.00000467
		110	5550	5,549.93561	0.00001160
		134	5670	5,669.94918	0.00000896
		142	5710	5,709.91229	0.00001536
		151	5755	5,754.90676	0.00001620
		159	5795	5,794.93769	0.00001075
	10.8V	38	5190	5,189.99170	0.00000160
		46	5230	5,229.95783	0.00000806
		54	5270	5,269.91419	0.00001628
		62	5310	5,309.97557	0.00000460
		102	5510	5,509.94491	0.00001000
		110	5550	5,549.96216	0.00000682
		134	5670	5,669.96611	0.00000598
		142	5710	5,709.99762	0.00000042
		151	5755	5,754.91004	0.00001563
		159	5795	5,794.99813	0.00000032

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Operation Mode	802.11 ac_VHT80	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	42	5210	5,209.92072	0.00001522
		58	5290	5,289.93221	0.00001281
		106	5530	5,529.99278	0.00000131
		122	5610	5,609.96125	0.00000691
		138	5690	5,689.92067	0.00001394
		155	5775	5,774.96693	0.00000573
	10.8V	42	5210	5,209.99115	0.00000170
		58	5290	5,289.95682	0.00000816
		106	5530	5,529.90378	0.00001740
		122	5610	5,609.90820	0.00001636
		138	5690	5,689.96183	0.00000671
		155	5775	5,774.96945	0.00000529
25	12V	42	5210	5,209.92468	0.00001446
		58	5290	5,289.90740	0.00001750
		106	5530	5,529.96166	0.00000693
		122	5610	5,609.97461	0.00000453
		138	5690	5,689.98408	0.00000280
		155	5775	5,774.95481	0.00000783
40	13.2V	42	5210	5,209.93675	0.00001214
		58	5290	5,289.95151	0.00000917
		106	5530	5,529.92095	0.00001429
		122	5610	5,609.92685	0.00001304
		138	5690	5,689.90898	0.00001600
		155	5775	5,774.99743	0.00000045
	10.8V	42	5210	5,209.91660	0.00001601
		58	5290	5,289.98243	0.00000332
		106	5530	5,529.94173	0.00001054
		122	5610	5,609.99456	0.00000097
		138	5690	5,689.93577	0.00001129
		155	5775	5,774.92533	0.00001293

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	36	5180	5,179.99293	0.00000136
		44	5220	5,219.92259	0.00001483
		48	5240	5,239.90834	0.00001749
		52	5260	5,259.91399	0.00001635
		60	5300	5,299.91480	0.00001608
		64	5320	5,319.91778	0.00001545
		100	5500	5,499.90379	0.00001749
		116	5580	5,579.96376	0.00000649
		140	5700	5,699.96353	0.00000640
		144	5720	5,719.96952	0.00000533
		149	5745	5,744.98937	0.00000185
		157	5785	5,784.98735	0.00000219
	165	5825	5,824.95866	0.00000710	
	10.8V	36	5180	5,179.92366	0.00001474
		44	5220	5,219.98734	0.00000243
		48	5240	5,239.96029	0.00000758
		52	5260	5,259.97484	0.00000478
		60	5300	5,299.99792	0.00000039
		64	5320	5,319.96707	0.00000619
		100	5500	5,499.95348	0.00000846
		116	5580	5,579.96079	0.00000703
		140	5700	5,699.90012	0.00001752
		144	5720	5,719.90284	0.00001699
		149	5745	5,744.99955	0.00000008
157		5785	5,784.96478	0.00000609	
165	5825	5,824.93782	0.00001067		

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25	12V	36	5180	5,179.93342	0.00001285
		44	5220	5,219.95541	0.00000854
		48	5240	5,239.99393	0.00000116
		52	5260	5,259.98052	0.00000370
		60	5300	5,299.99853	0.00000028
		64	5320	5,319.93862	0.00001154
		100	5500	5,499.90758	0.00001680
		116	5580	5,579.98318	0.00000301
		140	5700	5,699.93394	0.00001159
		144	5720	5,719.97044	0.00000517
		149	5745	5,744.94742	0.00000915
		157	5785	5,784.97242	0.00000477
		165	5825	5,824.94073	0.00001018
40	13.2V	36	5180	5,179.90564	0.00001822
		44	5220	5,219.92675	0.00001403
		48	5240	5,239.98705	0.00000247
		52	5260	5,259.92156	0.00001491
		60	5300	5,299.92683	0.00001381
		64	5320	5,319.97003	0.00000563
		100	5500	5,499.93215	0.00001234
		116	5580	5,579.97300	0.00000484
		140	5700	5,699.95106	0.00000859
		144	5720	5,719.92432	0.00001323
		149	5745	5,744.96907	0.00000538
		157	5785	5,784.95178	0.00000834
		165	5825	5,824.93051	0.00001193
	10.8V	36	5180	5,179.92409	0.00001465
		44	5220	5,219.91742	0.00001582
		48	5240	5,239.93190	0.00001300
		52	5260	5,259.94747	0.00000999
		60	5300	5,299.97356	0.00000499
		64	5320	5,319.98365	0.00000307
		100	5500	5,499.90149	0.00001791
		116	5580	5,579.94935	0.00000908
		140	5700	5,699.91324	0.00001522
		144	5720	5,719.99839	0.00000028
		149	5745	5,744.94236	0.00001003
		157	5785	5,784.95750	0.00000735
		165	5825	5,824.95128	0.00000836

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Operation Mode	802.11 n_HT40	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	38	5190	5,189.93223	0.00001306
		46	5230	5,229.99021	0.00000187
		54	5270	5,269.90502	0.00001802
		62	5310	5,309.92566	0.00001400
		102	5510	5,509.92873	0.00001293
		110	5550	5,549.95448	0.00000820
		134	5670	5,669.98966	0.00000182
		142	5710	5,709.96320	0.00000644
		151	5755	5,754.97531	0.00000429
		159	5795	5,794.93952	0.00001044
	10.8V	38	5190	5,189.95669	0.00000834
		46	5230	5,229.93556	0.00001232
		54	5270	5,269.97837	0.00000410
		62	5310	5,309.97822	0.00000410
		102	5510	5,509.93327	0.00001211
		110	5550	5,549.90381	0.00001733
		134	5670	5,669.93909	0.00001074
		142	5710	5,709.98284	0.00000301
		151	5755	5,754.98169	0.00000318
		159	5795	5,794.90276	0.00001678

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25	12V	38	5190	5,189.92068	0.00001528
		46	5230	5,229.99823	0.00000034
		54	5270	5,269.95984	0.00000762
		62	5310	5,309.90261	0.00001834
		102	5510	5,509.95642	0.00000791
		110	5550	5,549.93321	0.00001203
		134	5670	5,669.94361	0.00000995
		142	5710	5,709.91605	0.00001470
		151	5755	5,754.99035	0.00000168
		159	5795	5,794.98979	0.00000176
40	13.2V	38	5190	5,189.93751	0.00001204
		46	5230	5,229.93073	0.00001324
		54	5270	5,269.96883	0.00000591
		62	5310	5,309.96113	0.00000732
		102	5510	5,509.96717	0.00000596
		110	5550	5,549.91935	0.00001453
		134	5670	5,669.95884	0.00000726
		142	5710	5,709.95166	0.00000847
		151	5755	5,754.98981	0.00000177
		159	5795	5,794.95768	0.00000730
	10.8V	38	5190	5,189.99000	0.00000193
		46	5230	5,229.91754	0.00001577
		54	5270	5,269.97650	0.00000446
		62	5310	5,309.94082	0.00001115
		102	5510	5,509.98435	0.00000284
		110	5550	5,549.94121	0.00001059
		134	5670	5,669.96215	0.00000668
		142	5710	5,709.91197	0.00001542
		151	5755	5,754.92746	0.00001260
		159	5795	5,794.92270	0.00001334

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Operation Mode	802.11 ac_VHT80	Test Date	2018.08.30
Temperature	:27	Test By	Hone
Humidity	:55 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	42	5210	5,209.97830	0.00000417
		58	5290	5,289.91339	0.00001637
		106	5530	5,529.96814	0.00000576
		122	5610	5,609.96334	0.00000653
		138	5690	5,689.97391	0.00000459
		155	5775	5,774.99989	0.00000002
	10.8V	42	5210	5,209.98191	0.00000347
		58	5290	5,289.96292	0.00000701
		106	5530	5,529.98256	0.00000315
		122	5610	5,609.99699	0.00000054
		138	5690	5,689.92879	0.00001251
		155	5775	5,774.98179	0.00000315
25	12V	42	5210	5,209.99525	0.00000091
		58	5290	5,289.95304	0.00000888
		106	5530	5,529.90117	0.00001787
		122	5610	5,609.95129	0.00000868
		138	5690	5,689.97063	0.00000516
		155	5775	5,774.90283	0.00001683
40	13.2V	42	5210	5,209.91221	0.00001685
		58	5290	5,289.97765	0.00000422
		106	5530	5,529.93158	0.00001237
		122	5610	5,609.90334	0.00001723
		138	5690	5,689.91799	0.00001441
		155	5775	5,774.94186	0.00001007
	10.8V	42	5210	5,209.99078	0.00000177
		58	5290	5,289.90923	0.00001716
		106	5530	5,529.92903	0.00001283
		122	5610	5,609.91115	0.00001584
		138	5690	5,689.91027	0.00001577
		155	5775	5,774.90849	0.00001585

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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.

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15 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-15000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

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15.2 ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	0.73/ <i>f</i>	-	6**
1.1-10	87/ <i>f</i> ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ <i>f</i> ^{0.25}	0.1540/ <i>f</i> ^{0.25}	8.944/ <i>f</i> ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 <i>f</i> ^{0.3417}	0.008335 <i>f</i> ^{0.3417}	0.02619 <i>f</i> ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ <i>f</i> ^{1.2}
150000-300000	0.158 <i>f</i> ^{0.5}	4.21 x 10 ⁻⁴ <i>f</i> ^{0.5}	6.67 x 10 ⁻⁵ <i>f</i>	616000/ <i>f</i> ^{1.2}

F = frequency in MHz

* = Based on nerve stimulation (NS).

** = Based on specific absorption rate (SAR)

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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15.3 Power Density Calculation (Worst Case)

FCC								ISED		
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Output Power EIRP (dBm)	Output Power EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density (W/cm ²)	Limit (W/cm ²)	Pass / Fail
802.11a	5500.00	20	22.35	171.79	0.034	1.000	Pass	0.342	9.425	Pass
802.11n_HT20	5785.00	20	28.57	719.45	0.143	1.000	Pass	1.432	9.756	Pass
802.11n_HT40	5755.00	20	27.56	570.16	0.113	1.000	Pass	1.135	9.722	Pass
802.11n_ac80	5530.00	20	26.80	478.63	0.095	1.000	Pass	0.953	9.460	Pass

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