

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Applicant: GOOGLE LLC
1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW , CALIFORNIA 94043

Product Name: Glass Enterprise Edition 2

Brand Name: GLASS

Model No.: GG2

Model Difference: N/A

FCC ID: A4R-GG2

IC: 10395A-GG2

Report Number: E2/2018/80050

FCC Rule Part: §15.407, Cat:NII

IC Rule: RSS-247 issue 2 Feb. 2017

Issue Date: Nov. 05, 2018

Date of Test: Aug. 08, 2018 ~ Sep. 05, 2018

Date of EUT Received: Aug. 08, 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 / Engineer

Approved By:

Blue Yang

Blue Yang / Supervisor



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/80050	Rev.00	Initial creation of document	All	Sep. 12, 2018	Yuri Tsai
E2/2018/80050	Rev.01	Updated Brand Name	1,4	Nov. 05, 2018	Yuri Tsai

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Glass Enterprise Edition 2	
Brand Name:	GLASS	
Model No.:	GG2	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
USB Cable:	Model No.: ABA-USB-702-P01, Supplier: Lotes	
Power Supply:	3.85Vdc from Rechargeable Li-ion Battery	
	Battery:	Pack Model No.: P-752438 Supplier: Dongguan Amperex Technology Limited

Antenna Designation	Monopole Antenna, 5150~5250MHz Peak Gain: 1.6dBi 5250~5350MHz Peak Gain: 1.6dBi 5470~5725MHz Peak Gain: 1.6dBi 5725~5850MHz Peak Gain: 1.6dBi
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 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps

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FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5150~5250	4	12.75	OFDM
	5250~5350	4	12.96	
	5470~5725	12	12.57	
	5725~5850	5	12.96	
11n_HT / ac_VHT 20M	5150~5250	4	HT: 12.95	OFDM
	5250~5350	4	HT: 12.75	
	5470~5725	12	HT: 12.96	
	5725~5850	5	HT: 12.93	
11n_HT / ac_VHT 40M	5150~5250	2	HT: 12.84	OFDM
	5250~5350	2	HT: 12.91	
	5470~5725	6	HT:12.98	
	5725~5850	2	HT: 12.99	
11ac VHT80M	5150~5250	1	12.51	OFDM
	5250~5350	1	12.62	
	5470~5725	3	12.77	
	5725~5850	1	12.71	

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IC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. or EIRP	Rated Power(dBm)	Modulation Technology
11a	5150~5250	4	EIRP	14.35	OFDM
	5250~5350	4	Avg.	12.96	
	5470~5725	12	Avg.	12.57	
	5725~5850	5	Avg.	12.96	
11n_HT / ac_VHT 20M	5150~5250	4	EIRP	HT: 14.55	OFDM
	5250~5350	4	Avg.	HT: 12.75	
	5470~5725	12	Avg.	HT: 12.96	
	5725~5850	5	Avg.	HT: 12.93	
11n_HT / ac_VHT 40M	5150~5250	2	EIRP	HT: 14.44	OFDM
	5250~5350	2	Avg.	HT: 12.91	
	5470~5725	6	Avg.	HT: 12.98	
	5725~5850	2	Avg.	HT: 12.99	
11ac VHT80M	5210~5210	1	EIRP	14.11	OFDM
	5290~5290	1	Avg.	12.62	
	5470~5725	2	Avg.	12.77	
	5775~5775	1	Avg.	12.71	

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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: 4620E-1

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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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 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is 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 Conducted (Antenna Port) Emission Configuration

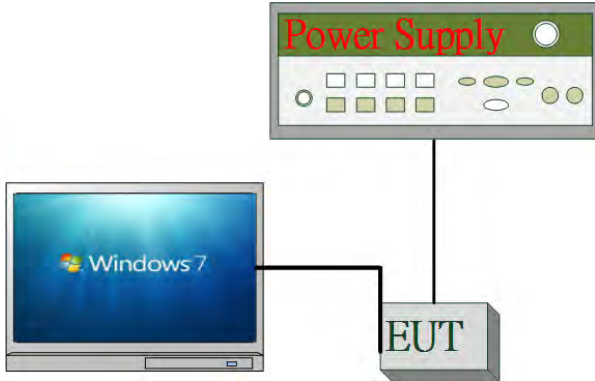


Fig 2-3 Conduction (AC Power Line) Conducted Emission



Fig 2-2 Radiated Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-WR6X4	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded

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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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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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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.

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	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
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	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN

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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	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

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 E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

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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
Peak 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	2019/02/13
EMI Test Receiver	R&S	ESCI	101300	2017/11/02	2018/11/01

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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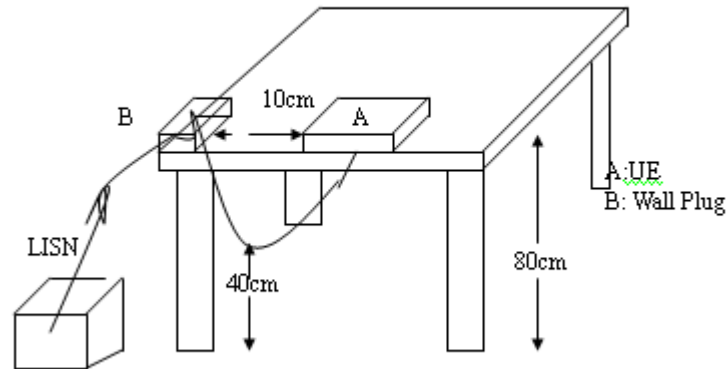
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6.4 Test SET-UP



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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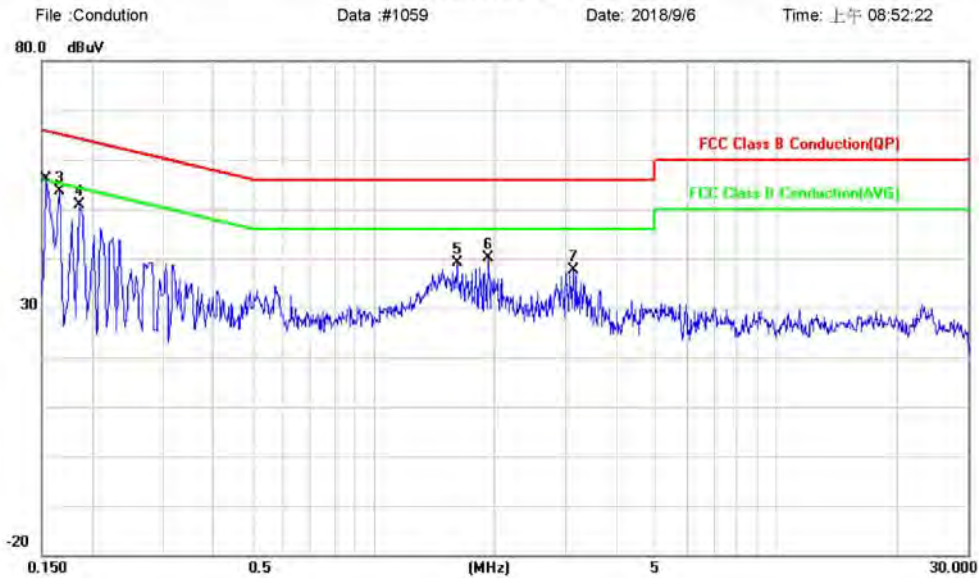
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Site : Conduction Room	Phase: L1	Temperature: 22 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 64 %
Mode:		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	34.60	19.65	54.25	65.78	-11.53	QP	
2		0.1540	18.00	19.65	37.65	55.78	-18.13	AVG	
3		0.1660	33.87	19.67	53.54	65.16	-11.62	peak	
4		0.1860	31.13	19.70	50.83	64.21	-13.38	peak	
5		1.6180	18.82	20.27	39.09	56.00	-16.91	peak	
6		1.9380	19.61	20.51	40.12	56.00	-15.88	peak	
7		3.1500	17.20	20.33	37.53	56.00	-18.47	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	98.37	0.07	0.48	1.00
802.11n_20	98.01	0.09	0.52	1.00
802.11ac_20	98.17	0.08	0.52	1.00
802.11n_40	96.24	0.17	1.06	2.00
802.11ac_40	96.15	0.17	1.05	2.00
802.11ac_80	92.89	0.32	2.16	3.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9837) = 0.07$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9801) = 0.09$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9817) = 0.08$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9624) = 0.17$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9615) = 0.17$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9289) = 0.32$$

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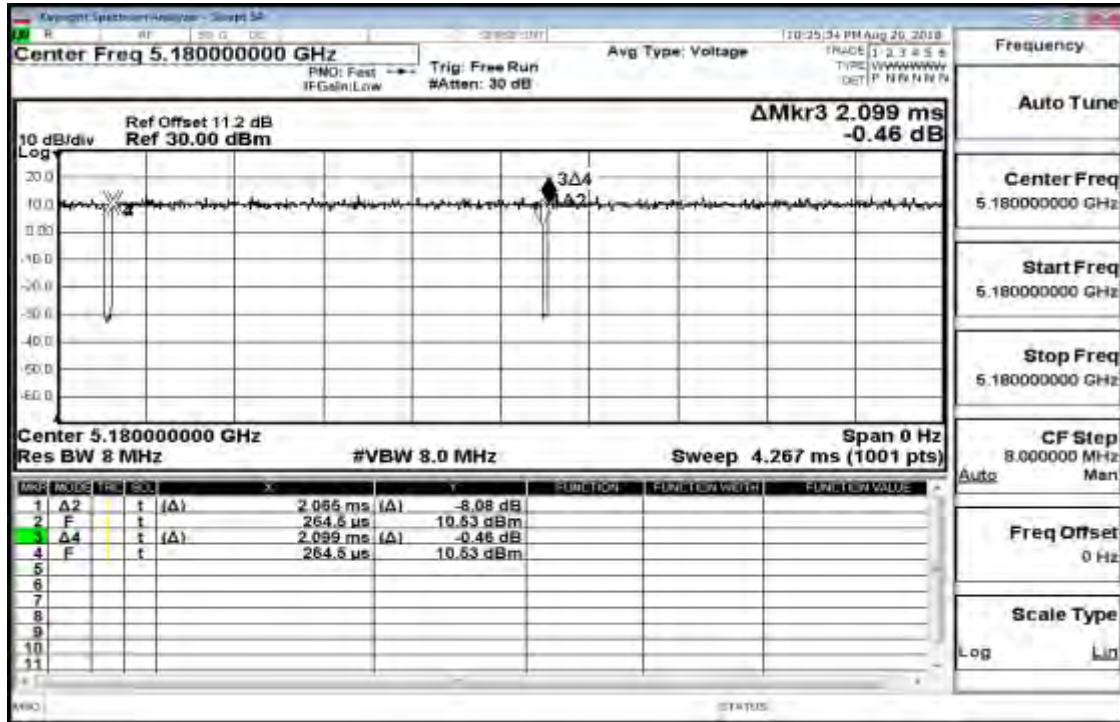
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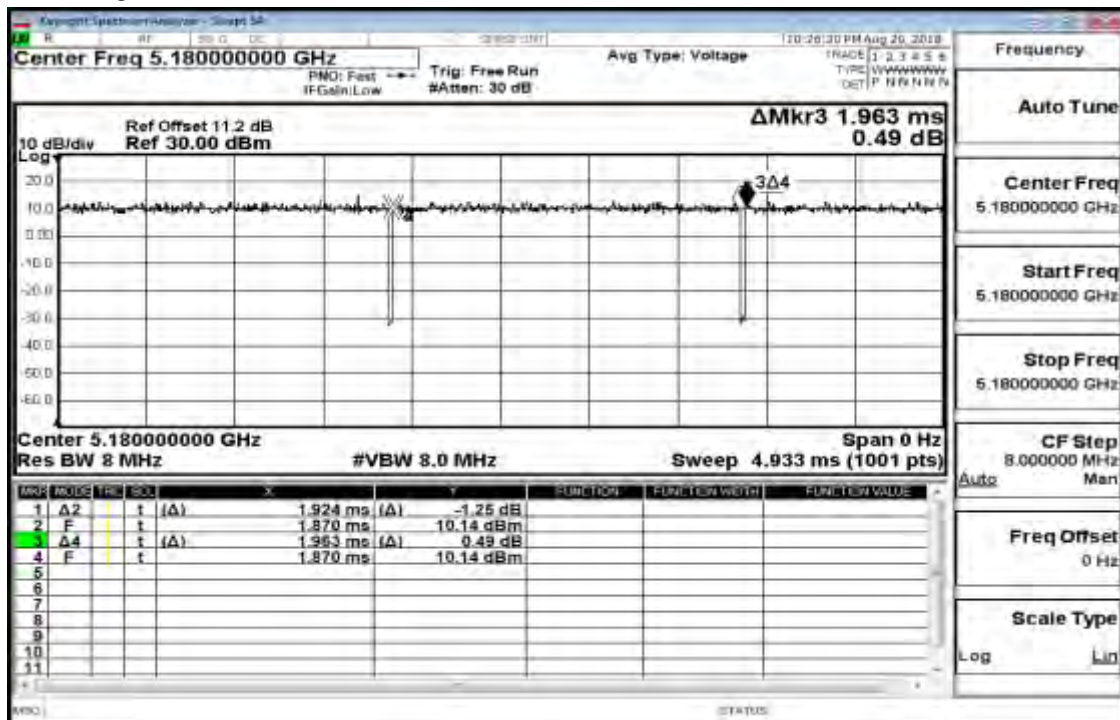
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20

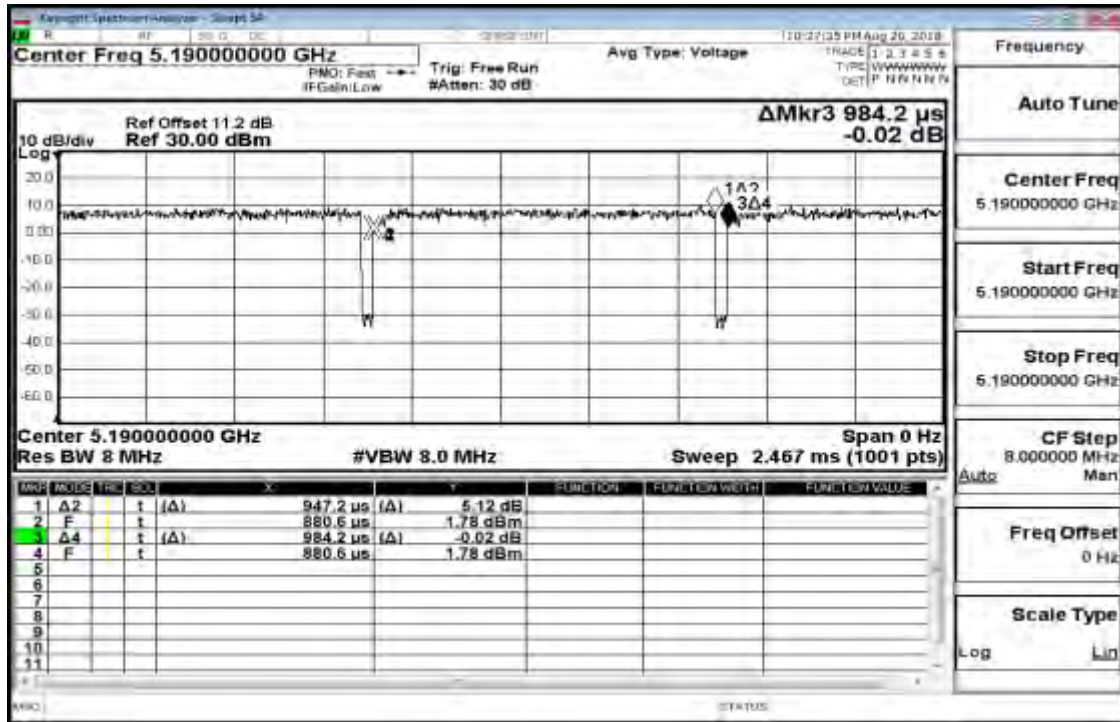


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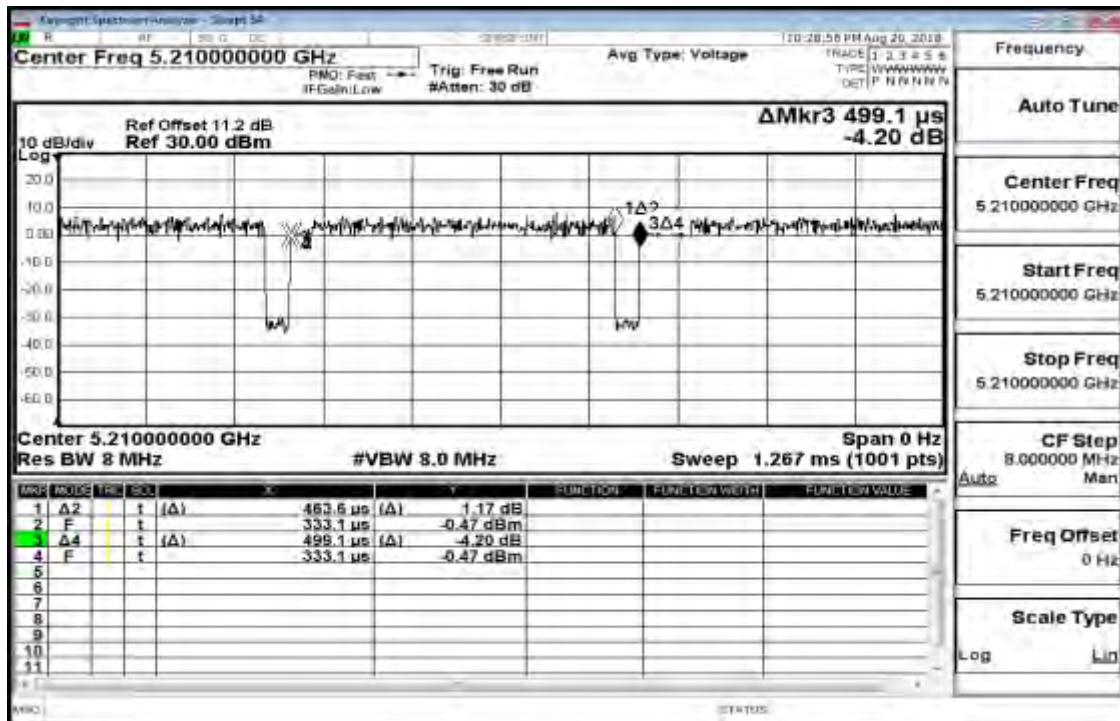
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802.11n HT 40



802.11 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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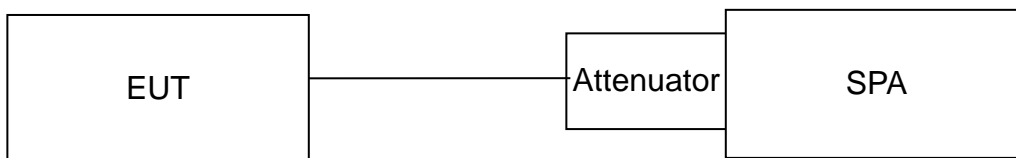
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25

8.4 Test Set-up



8.5 Measurement Result

26dB and 6dB Bandwidth

802.11a_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.02	13.226
5220	21.31	13.285
5240	21.34	13.292
5260	21.31	13.285
5300	21.30	13.283
5320	21.30	13.284
5500	21.25	13.273
5580	21.30	13.284
5700	21.30	13.284
5720(U-NII 2C)	12.23	10.873
5720 (U-NII 3)	3.80	5.800

802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.28	12.118
5785	16.30	12.121
5825	16.41	12.151

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802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.25	13.274
5220	21.28	13.279
5240	21.43	13.309
5260	21.86	13.396
5300	21.55	13.334
5320	21.29	13.283
5500	21.33	13.290
5580	21.29	13.282
5700	21.41	13.307
5720(U-NII 2C)	12.94	11.118
5720 (U-NII 3)	3.93	5.948

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.07	11.782
5785	16.85	12.265
5825	17.59	12.451

802.11n_HT40_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.20	15.933
5230	39.22	15.935
5270	38.92	15.902
5310	39.13	15.925
5510	39.41	15.956
5550	39.44	15.959
5670	39.43	15.958
5710 (U-NII 2C)	31.36	14.964
5710 (U-NII 3)	3.73	5.714

802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.38	15.487
5795	35.18	15.462

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802.11ac_VHT80_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.08	19.035
5290	79.37	18.997
5530	80.02	19.032
5610	79.37	18.997
5690 (U-NII 2C)	74.82	18.740
5690 (U-NII 3)	4.24	6.274

802.11ac_VHT80_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.24	18.764

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t (886-2) 2299-3279

f (886-2) 2298-0488

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99% Bandwidth
802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.656	12.216
5220	16.675	12.221
5240	16.643	12.212
5260	16.645	12.213
5300	16.653	12.215
5320	16.658	12.216
5500	16.666	12.218
5580	16.627	12.208
5700	16.655	12.215
5720(U-NII 2C)	12.701	11.039
5720 (U-NII 3)	3.950	5.965

802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.24	12.106
5785	16.29	12.118
5825	16.21	12.098

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.828	12.511
5220	17.832	12.512
5240	17.835	12.513
5260	17.793	12.502
5300	17.797	12.503
5320	17.838	12.513
5500	17.812	12.507
5580	17.862	12.519
5700	17.877	12.523
5720(U-NII 2C)	13.664	11.356
5720 (U-NII 3)	4.155	6.185

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.60	12.454
5785	17.37	12.397
5825	17.47	12.422

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802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.139	15.580
5230	36.143	15.580
5270	36.124	15.578
5310	36.123	15.578
5510	36.123	15.578
5550	36.100	15.575
5670	36.125	15.578
5710(U-NII 2C)	32.291	15.091
5710 (U-NII 3)	3.838	5.841

802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.24	15.592
5795	36.29	15.598

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.573	18.784
5290	75.576	18.784
5530	75.572	18.784
5610	75.582	18.784
5690(U-NII 2C)	71.510	18.544
5690 (U-NII 3)	4.053	6.078

802.11ac_VHT80_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.59	18.784

99% BW Band-Crossing Signals
802.11a_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.16	< 5250
5745	5736.69	> 5725

802.11n_HT20_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.76	< 5250
5745	5736.09	> 5725

802.11n_HT40_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.85	> 5725

802.11ac_VHT80_Ch0

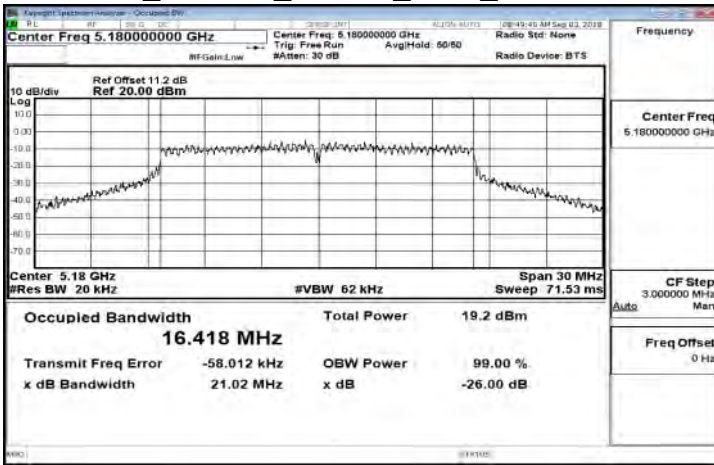
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.80	< 5250
5775	5737.00	> 5725

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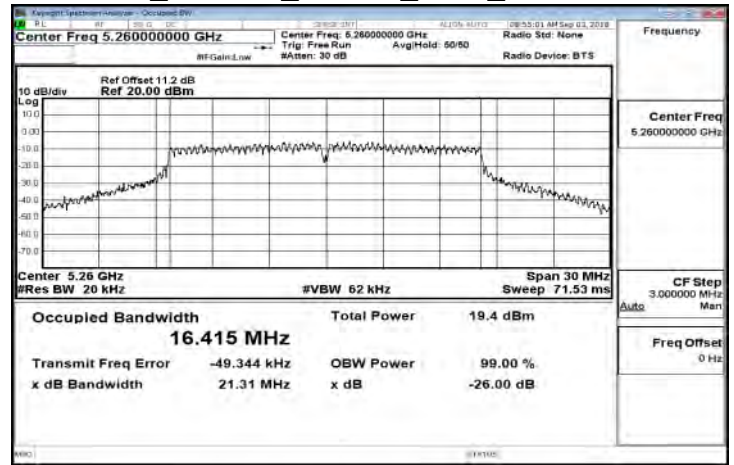
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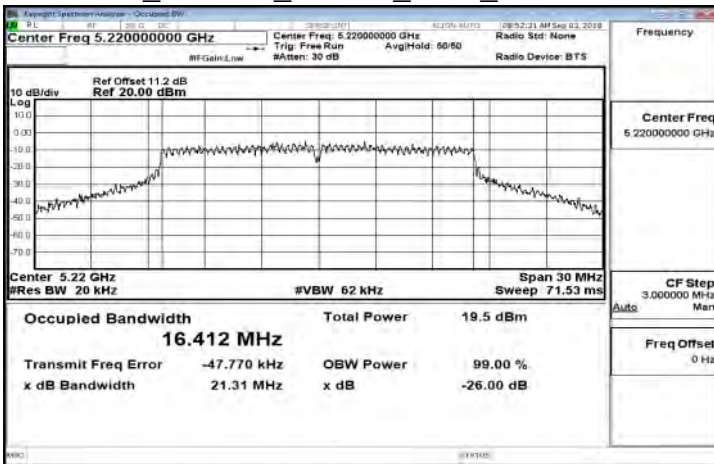
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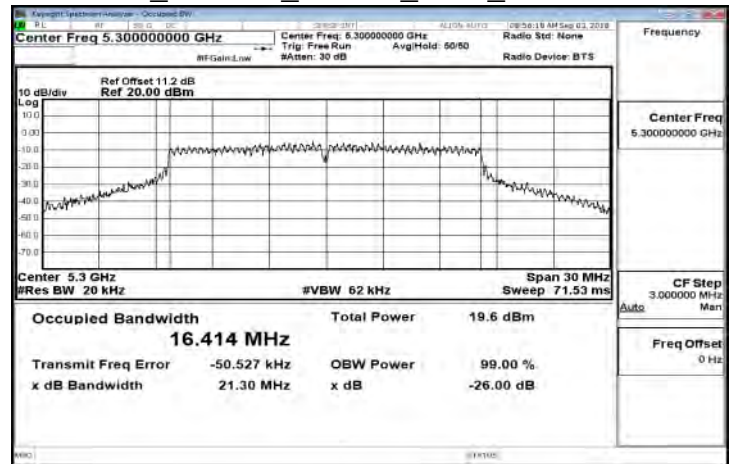
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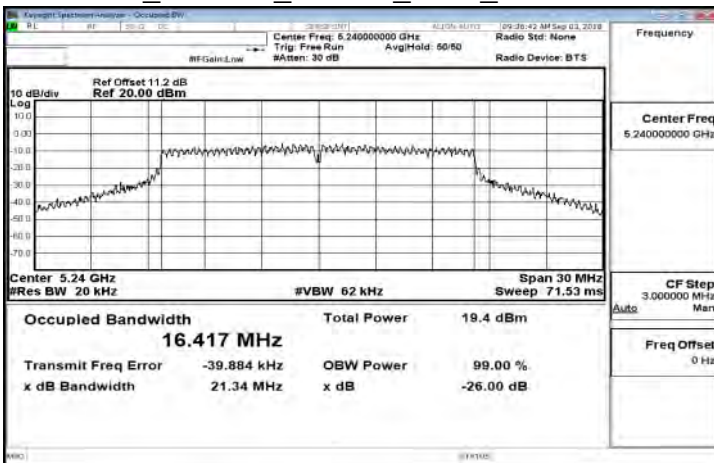
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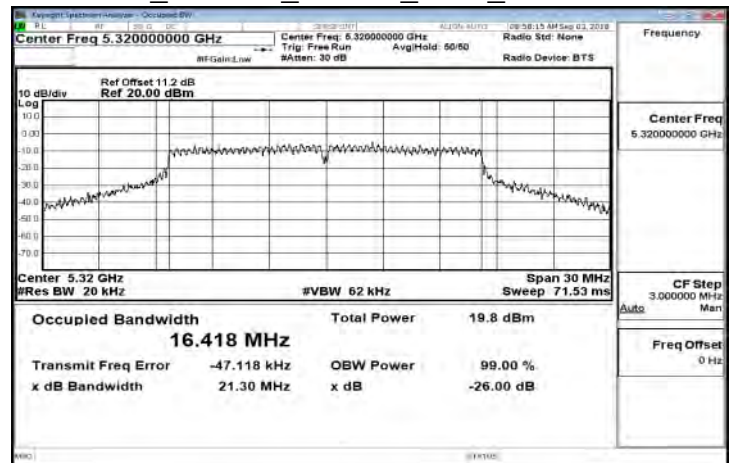
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FCC 802.11a_20MHz_Main_5240MHz



FCC 802.11a_20MHz_Main_5320MHz

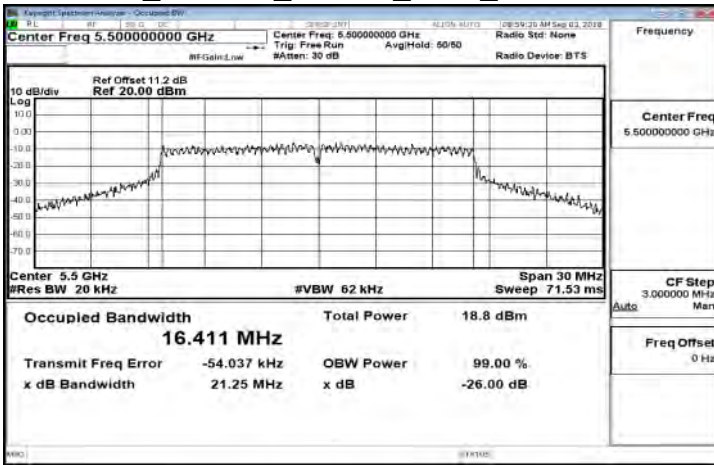


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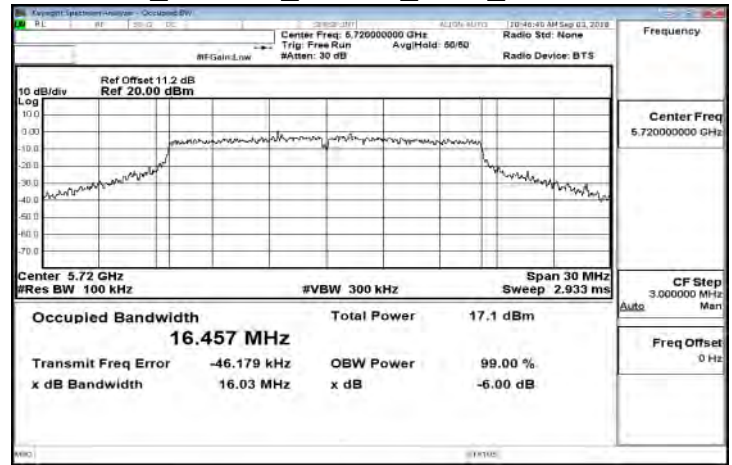
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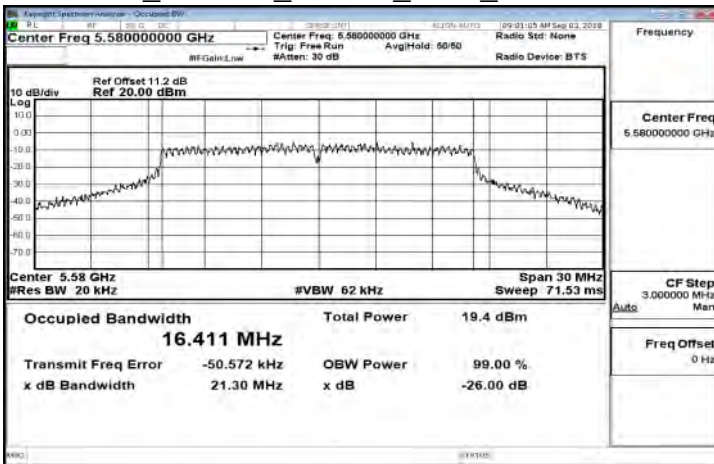
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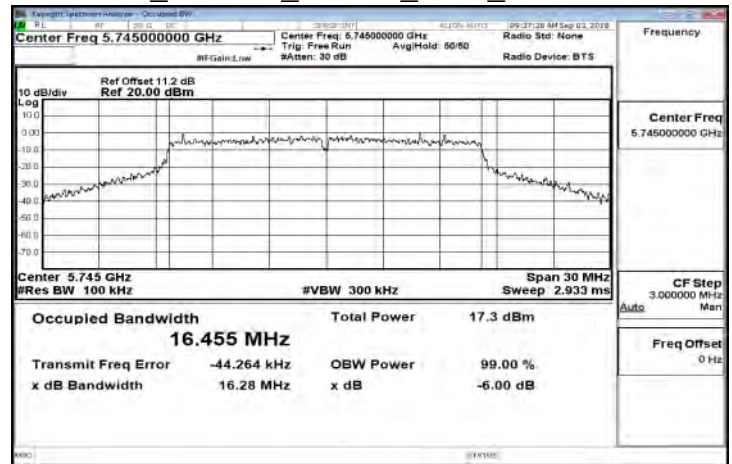
FCC 802.11a_20MHz_Main_5720MHz



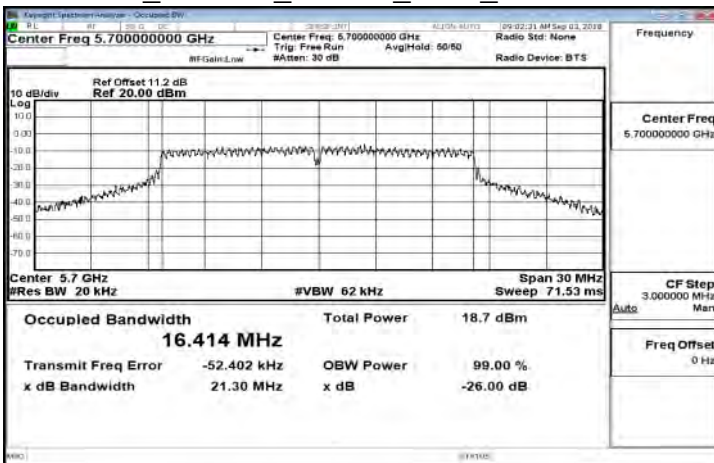
FCC 802.11a_20MHz_Main_5580MHz



FCC 802.11a_20MHz_Main_5745MHz



FCC 802.11a_20MHz_Main_5700MHz



FCC 802.11a_20MHz_Main_5785MHz



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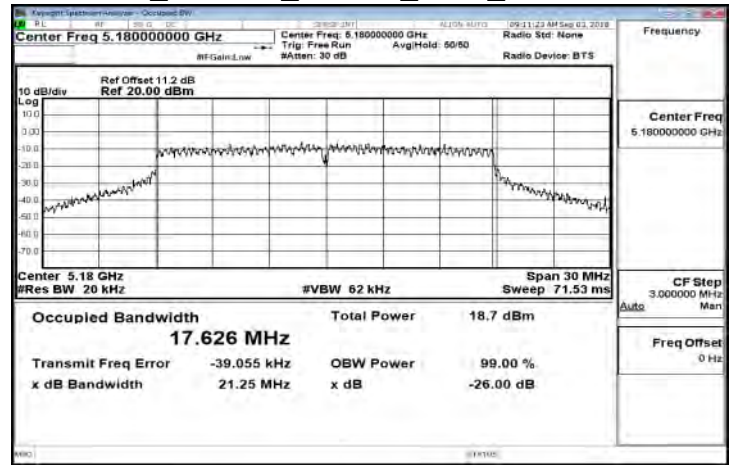
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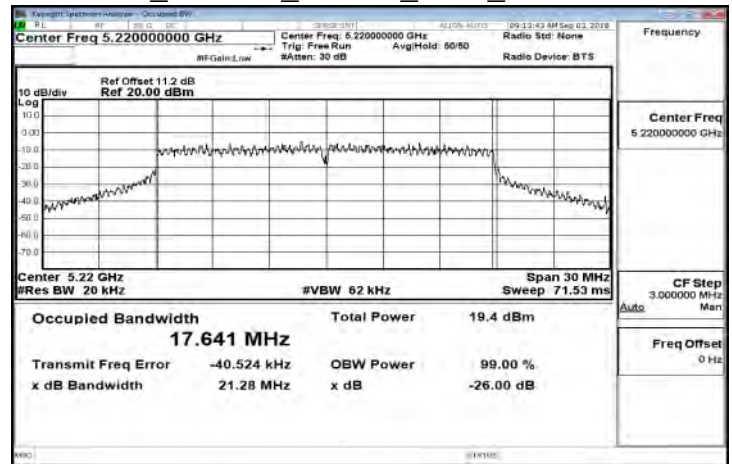
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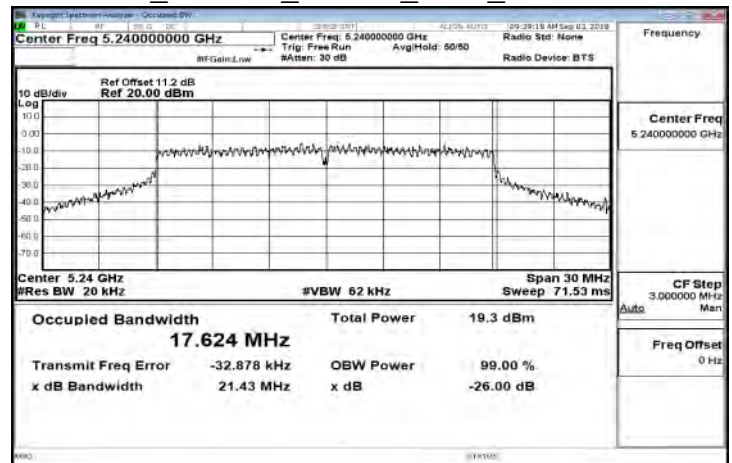
FCC 802.11n_20MHz_Main_5180MHz



FCC 802.11n_20MHz_Main_5220MHz



FCC 802.11n_20MHz_Main_5240MHz

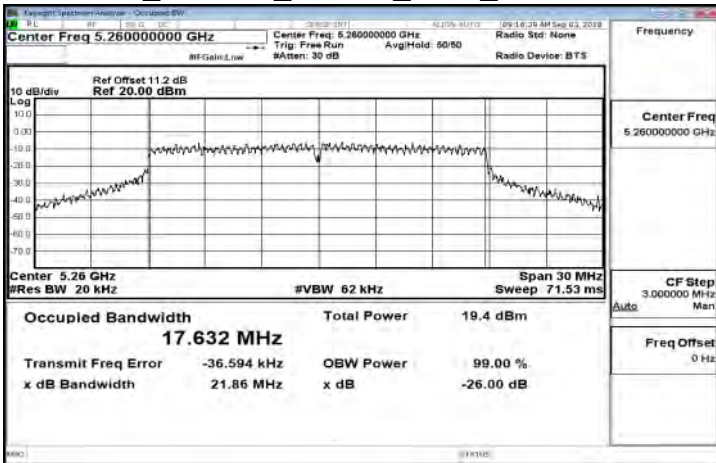


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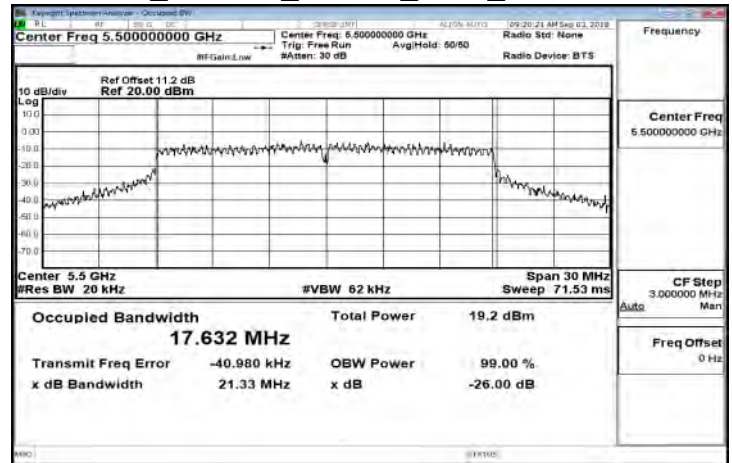
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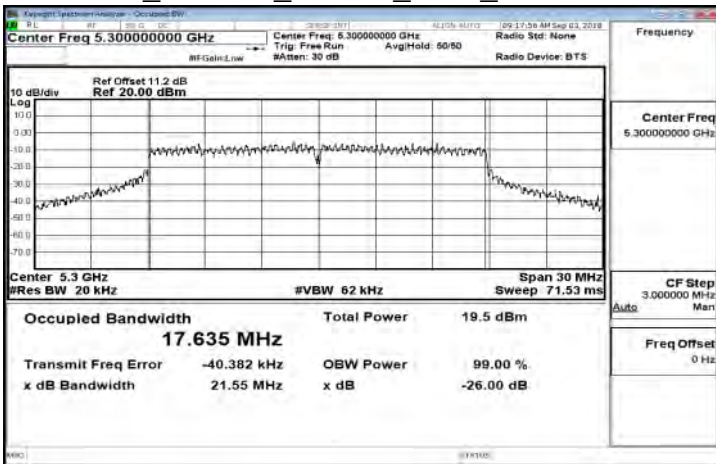
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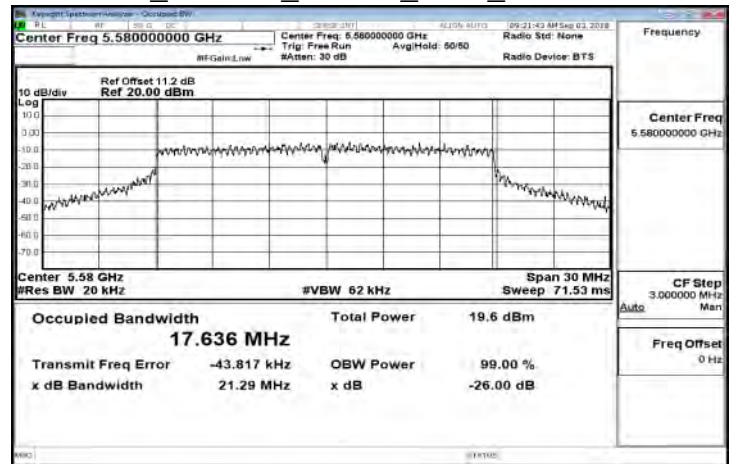
FCC 802.11n_20MHz_Main_5500MHz



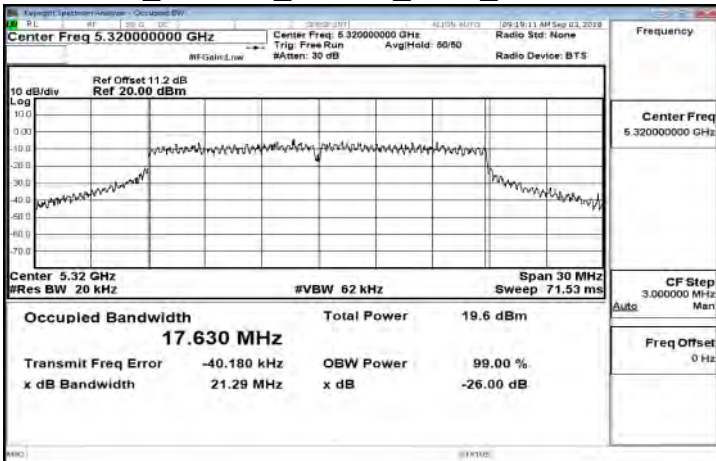
FCC 802.11n_20MHz_Main_5300MHz



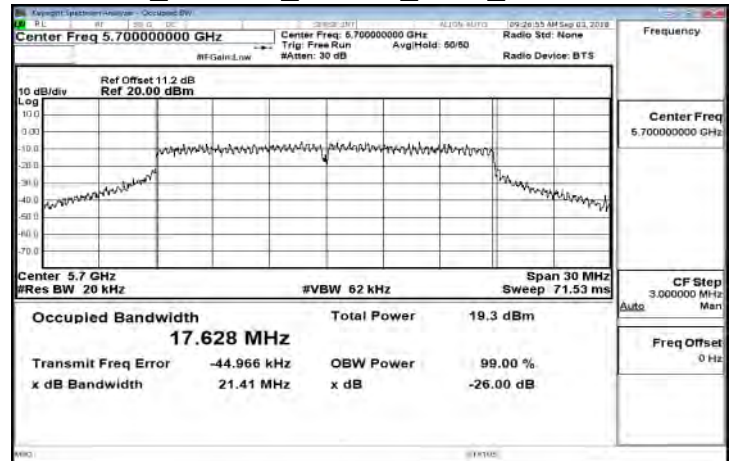
FCC 802.11n_20MHz_Main_5580MHz



FCC 802.11n_20MHz_Main_5320MHz



FCC 802.11n_20MHz_Main_5700MHz

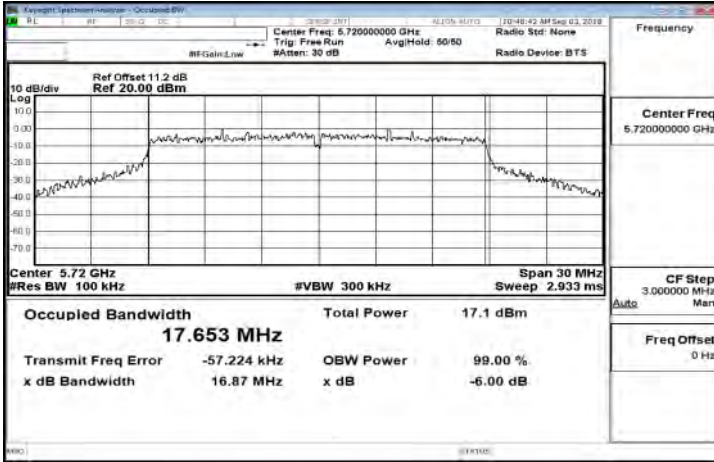


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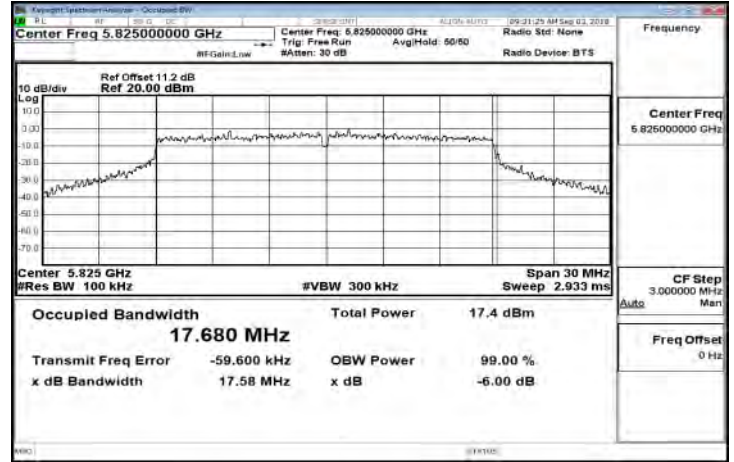
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FCC_802.11n_20MHz_Main_5720MHz



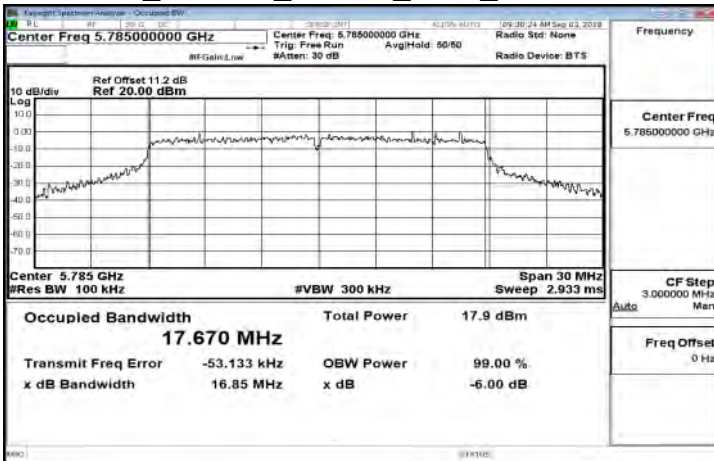
FCC_802.11n_20MHz_Main_5825MHz



FCC_802.11n_20MHz_Main_5745MHz



FCC_802.11n_20MHz_Main_5785MHz

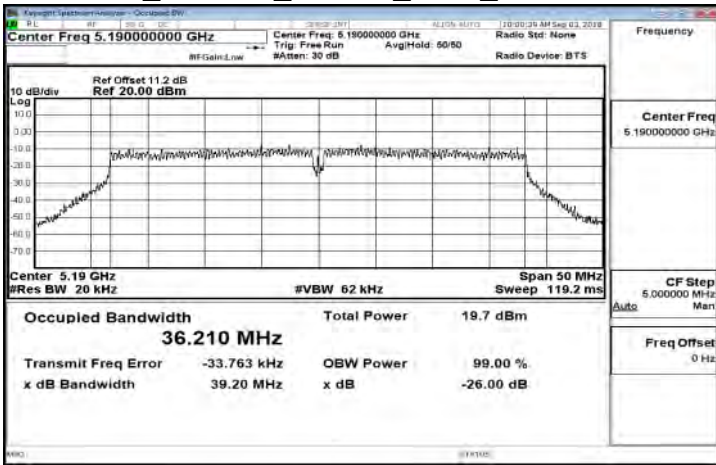


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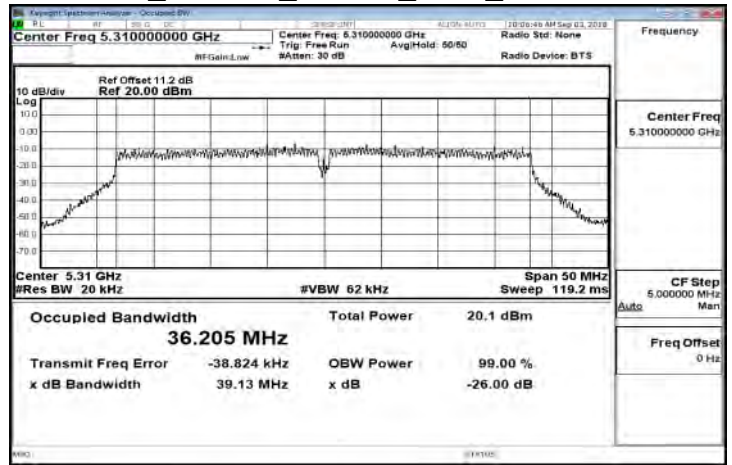
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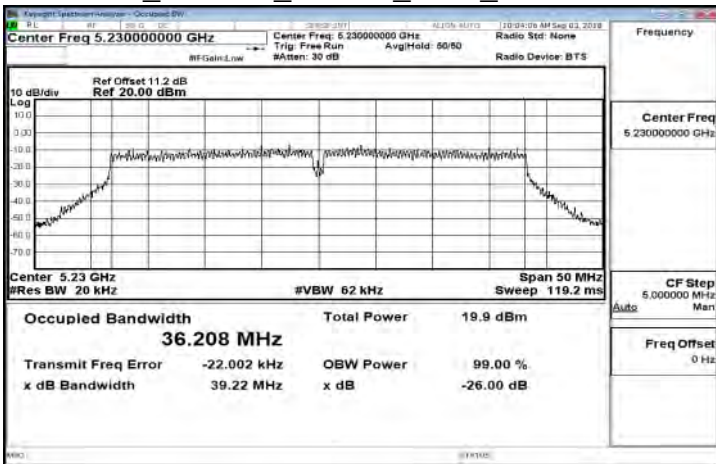
FCC 802.11n_40MHz_Main_5190MHz



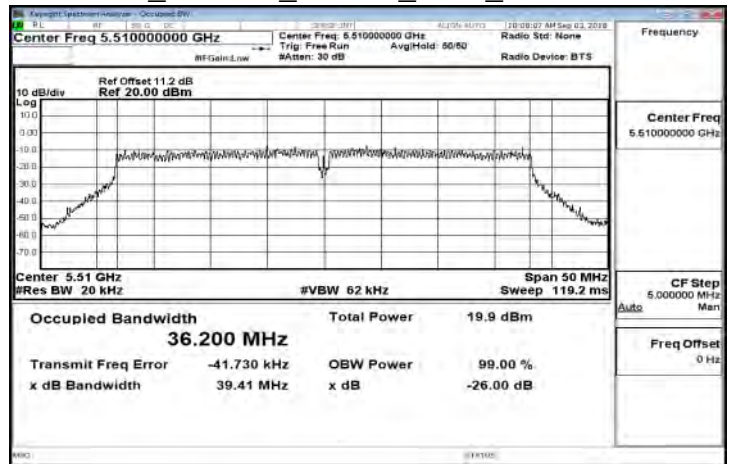
FCC 802.11n_40MHz_Main_5310MHz



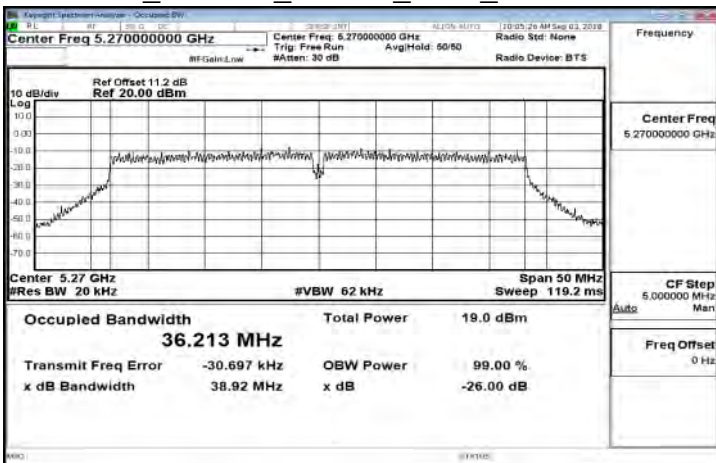
FCC 802.11n_40MHz_Main_5230MHz



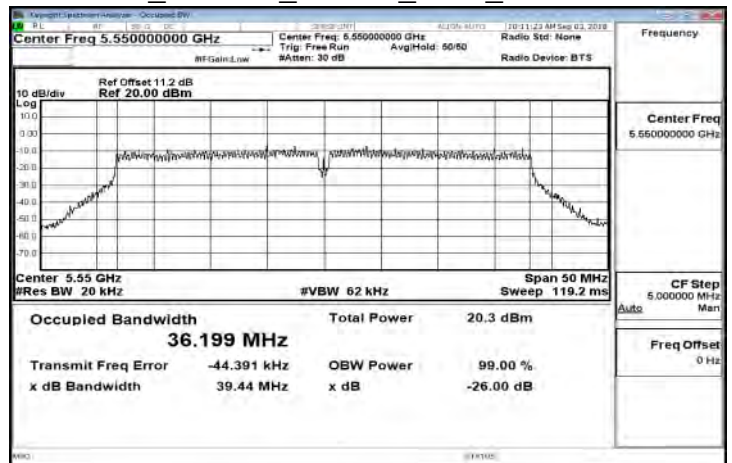
FCC 802.11n_40MHz_Main_5510MHz



FCC 802.11n_40MHz_Main_5270MHz



FCC 802.11n_40MHz_Main_5550MHz

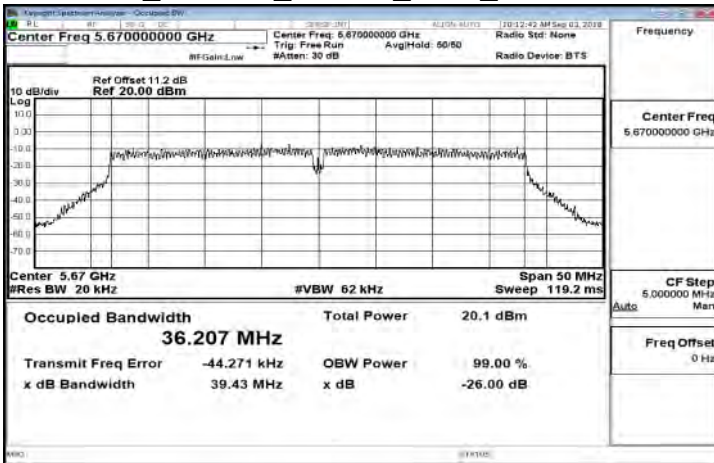


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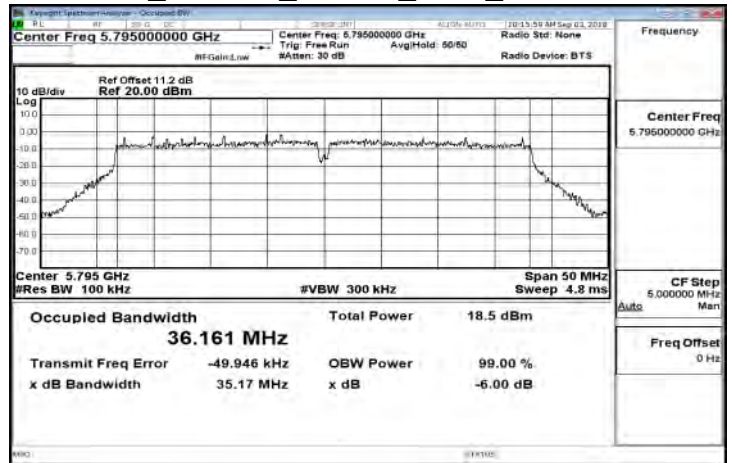
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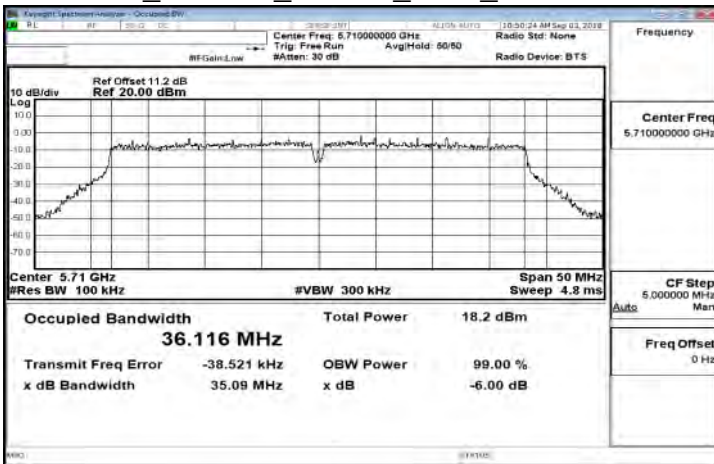
FCC_802.11n_40MHz_Main_5670MHz



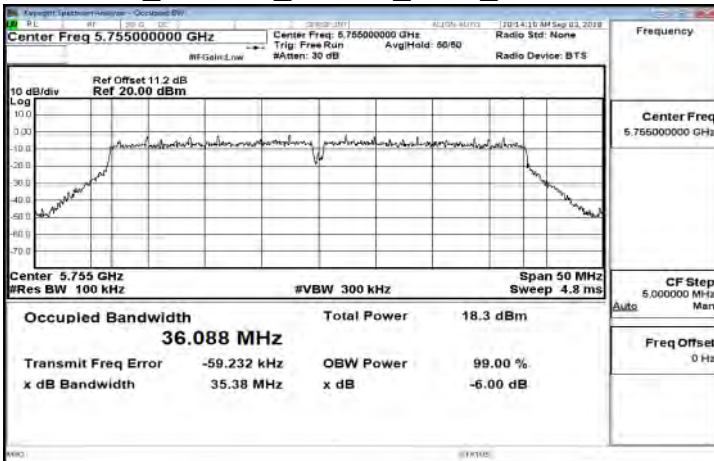
FCC_802.11n_40MHz_Main_5795MHz



FCC_802.11n_40MHz_Main_5710MHz



FCC_802.11n_40MHz_Main_5755MHz

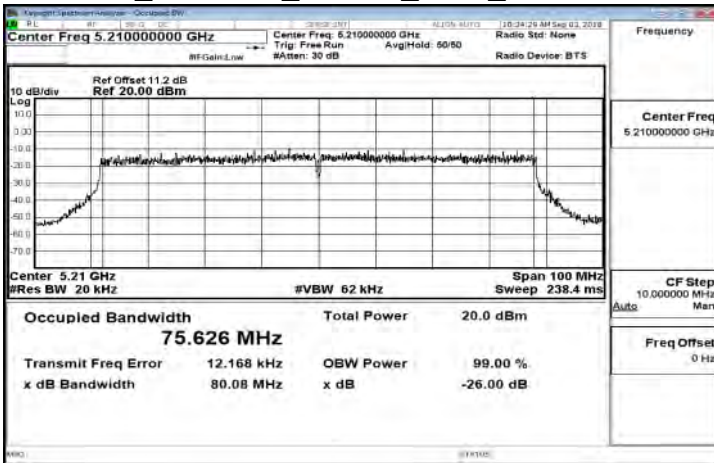


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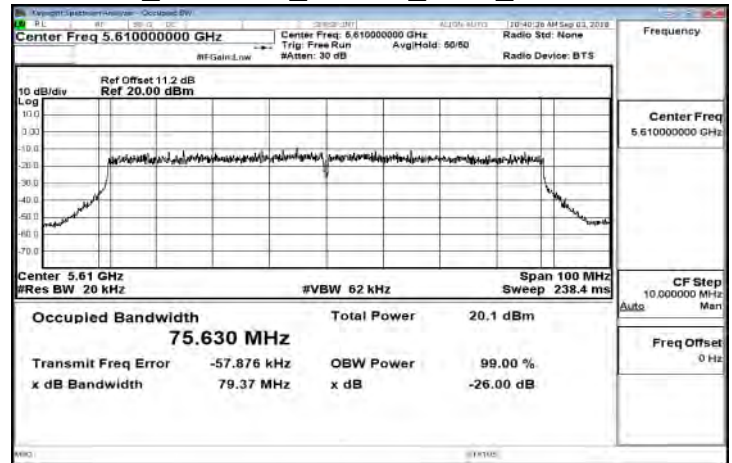
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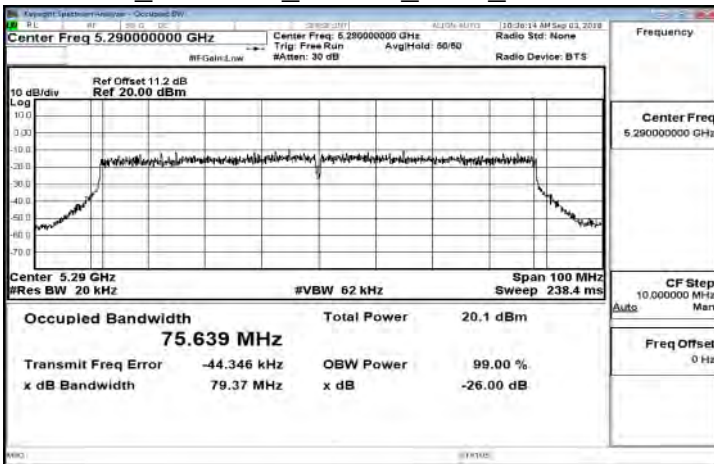
FCC_802.11ac_80MHz_Main_5210MHz



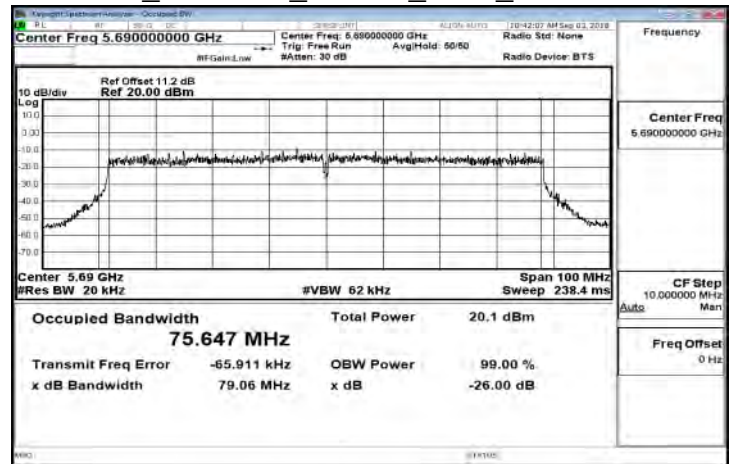
FCC_802.11ac_80MHz_Main_5610MHz



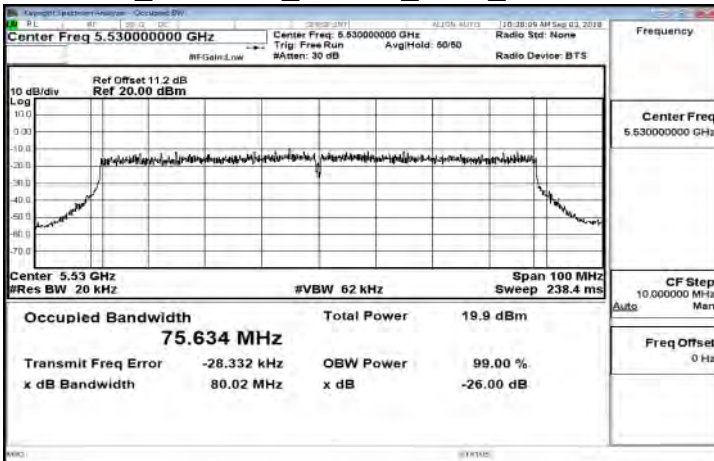
FCC_802.11ac_80MHz_Main_5290MHz



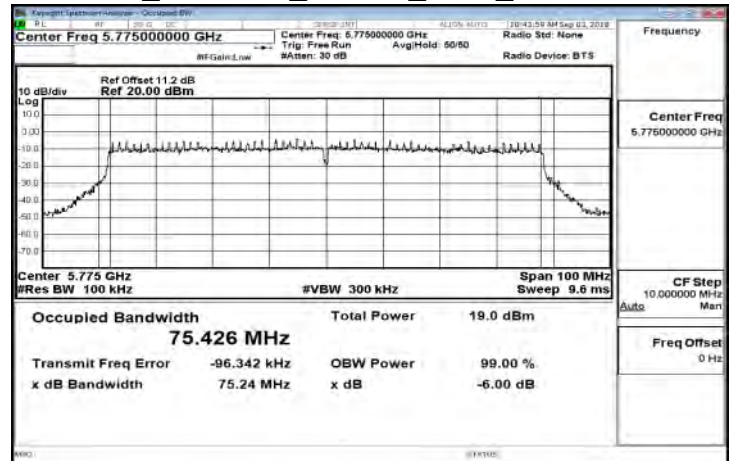
FCC_802.11ac_80MHz_Main_5690MHz



FCC_802.11ac_80MHz_Main_5530MHz



FCC_802.11ac_80MHz_Main_5775MHz



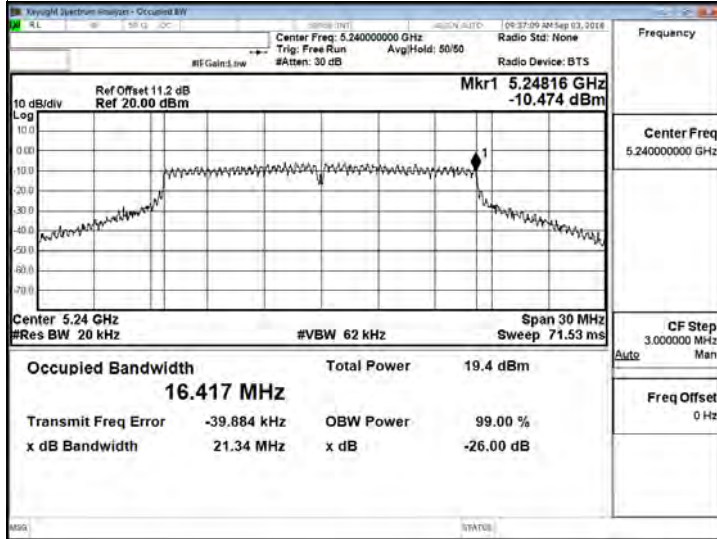
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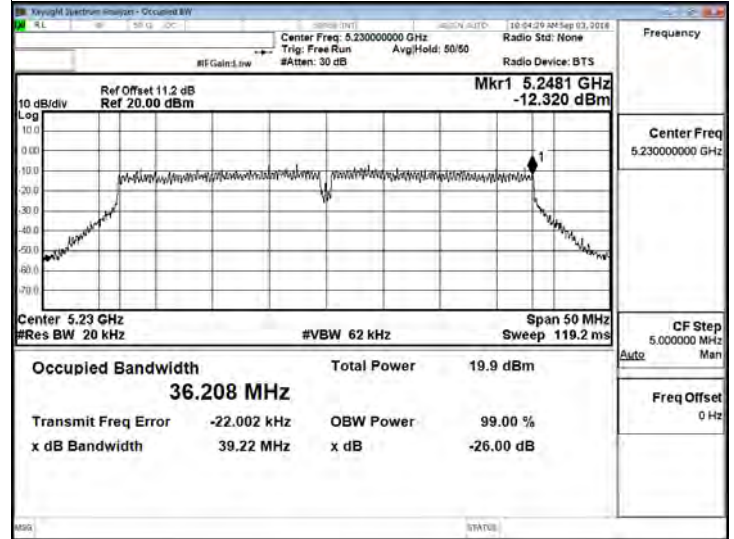
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99% BW to prove that all signals in band I is no over band U-NII-1

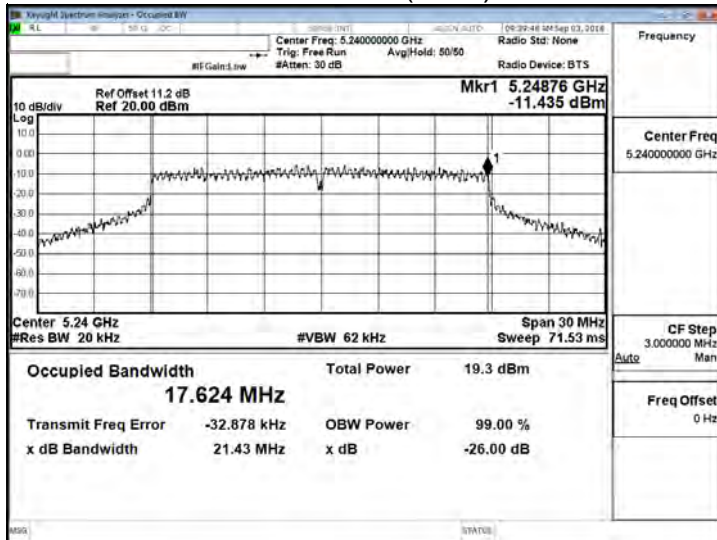
802.11a_5240MHz (Main)



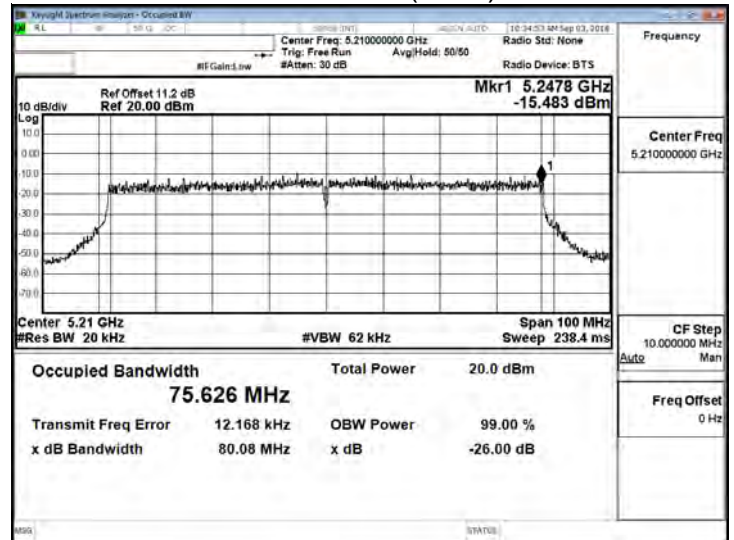
802.11n_40MHz_5230MHz (Main)



802.11n_20MHz_5240MHz (Main)



802.11n_80MHz_5210MHz (Main)



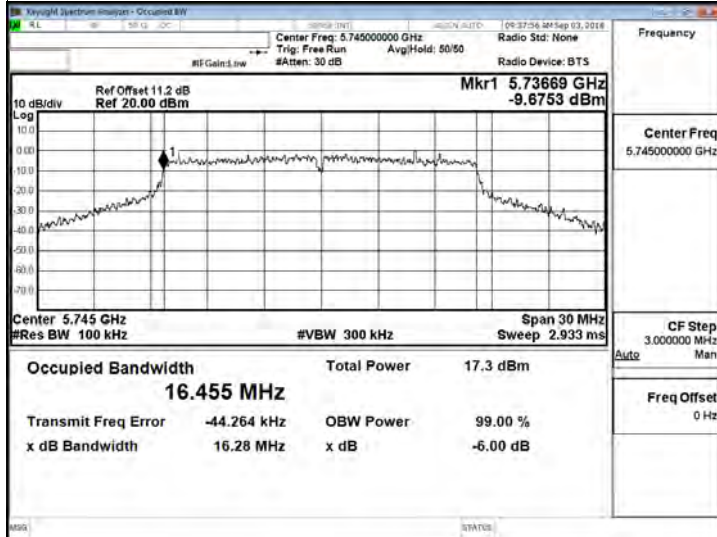
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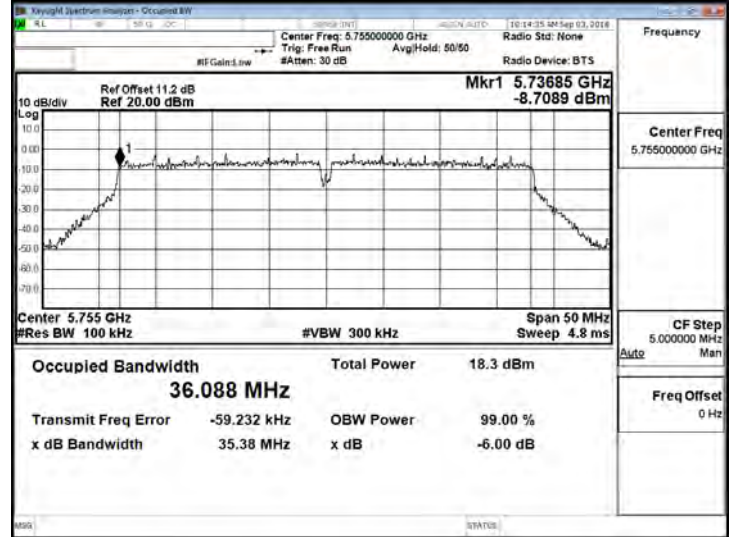
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99% BW to prove that all signals in band I is no over band U-NII-3

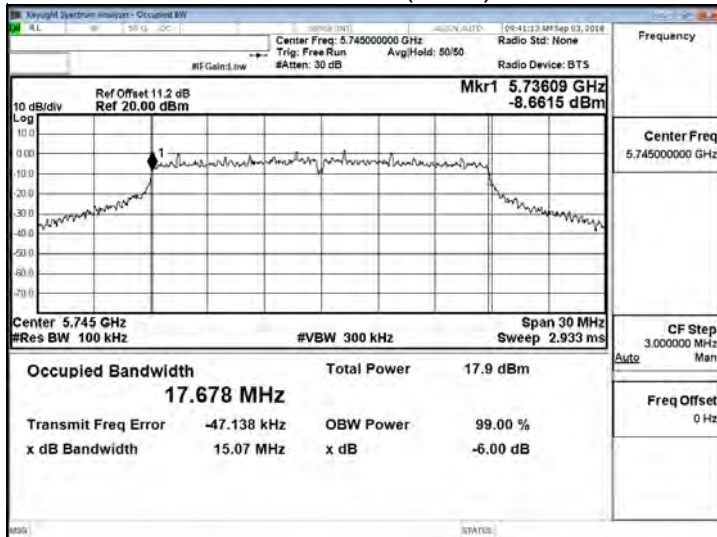
802.11a_5745MHz (Main)



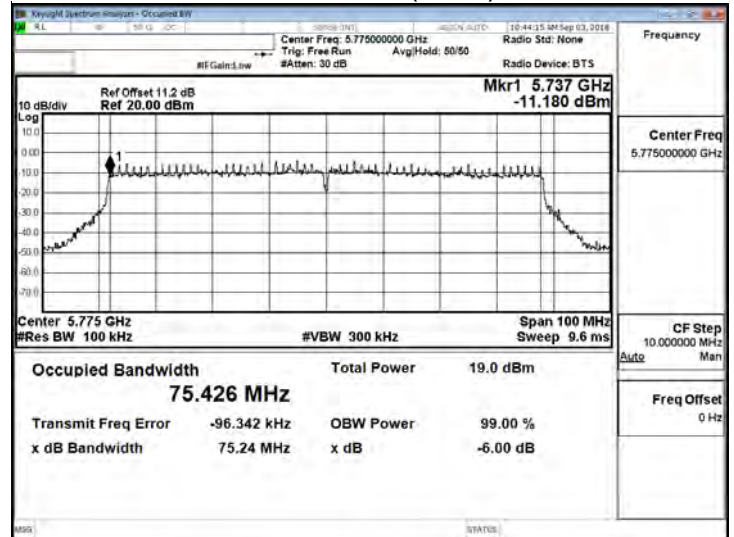
802.11n_40MHz_5775MHz (Main)



802.11n_20MHz_5745MHz (Main)



802.11n_80MHz_5775MHz (Main)

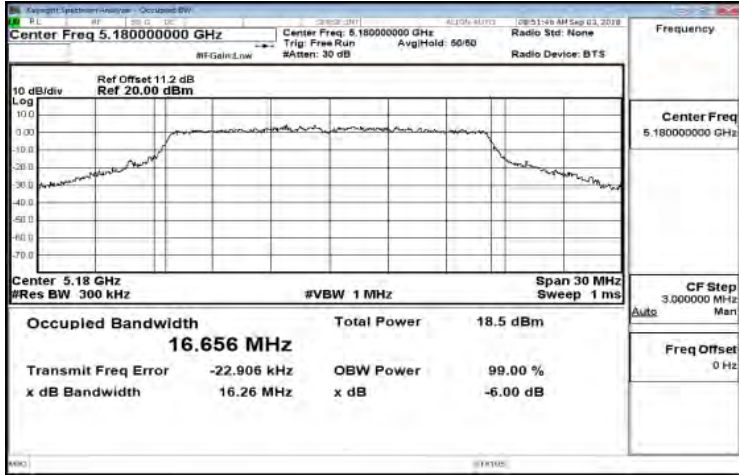


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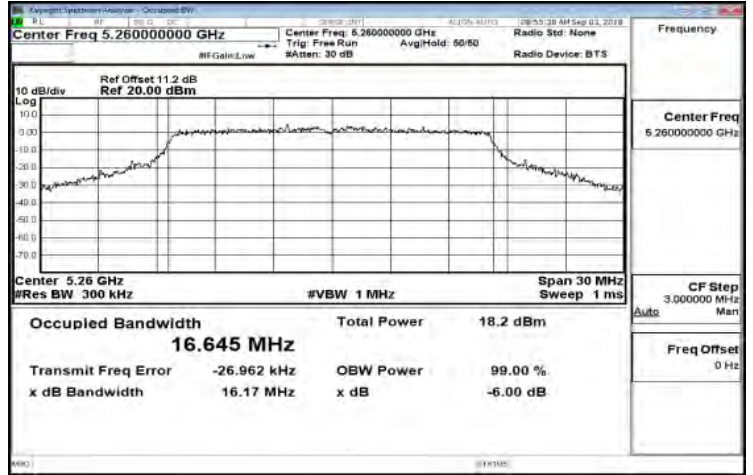
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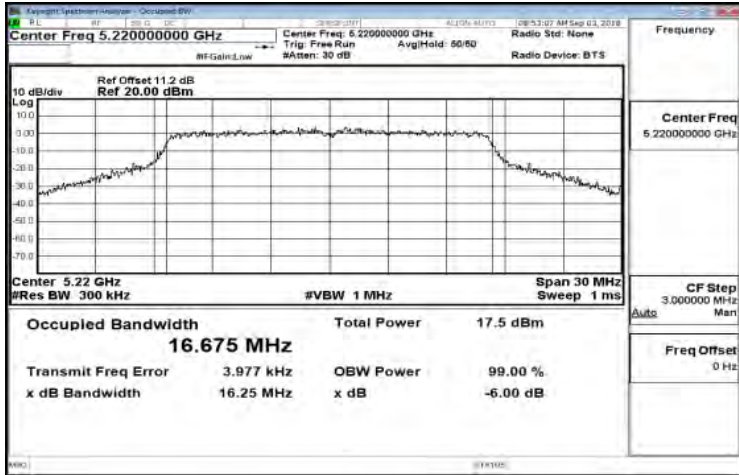
For 99%, IC_802.11a_20MHz_Main_5180MHz



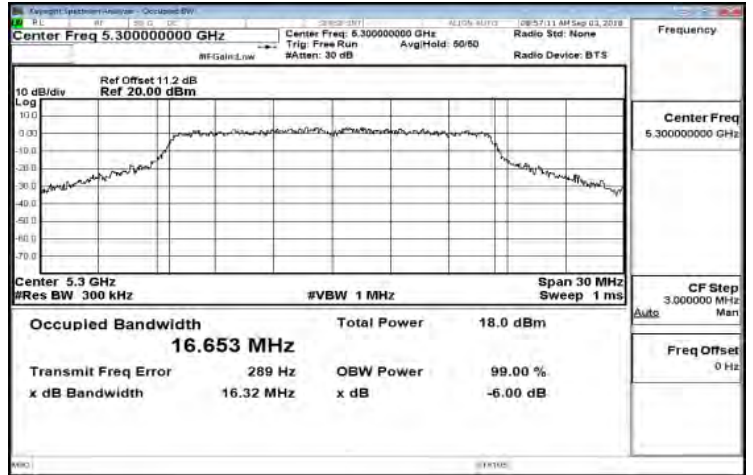
IC_802.11a_20MHz_Main_5260MHz



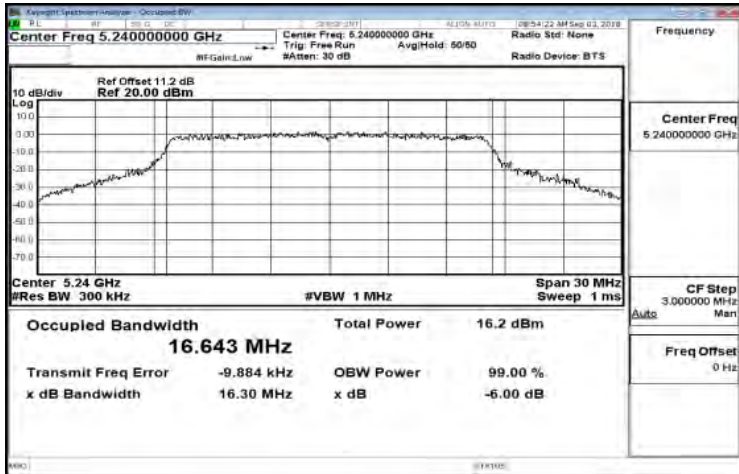
IC_802.11a_20MHz_Main_5220MHz



IC_802.11a_20MHz_Main_5300MHz



IC_802.11a_20MHz_Main_5240MHz



IC_802.11a_20MHz_Main_5320MHz



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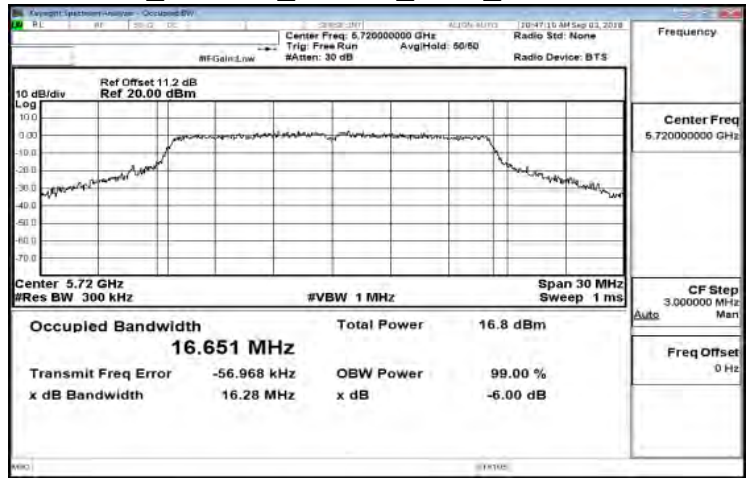
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IC_802.11a_20MHz_Main_5500MHz



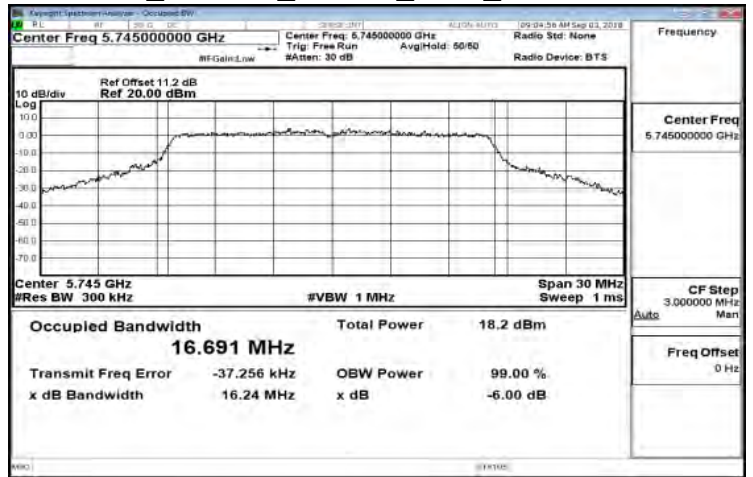
IC_802.11a_20MHz_Main_5720MHz



IC_802.11a_20MHz_Main_5580MHz



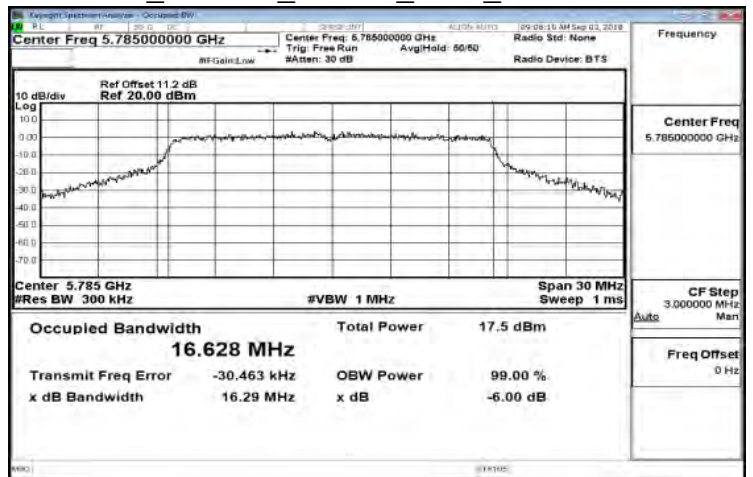
IC_802.11a_20MHz_Main_5745MHz



IC_802.11a_20MHz_Main_5700MHz



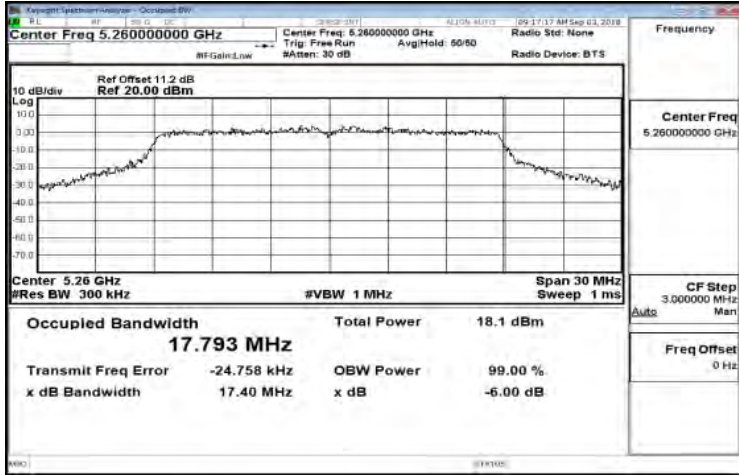
IC_802.11a_20MHz_Main_5785MHz



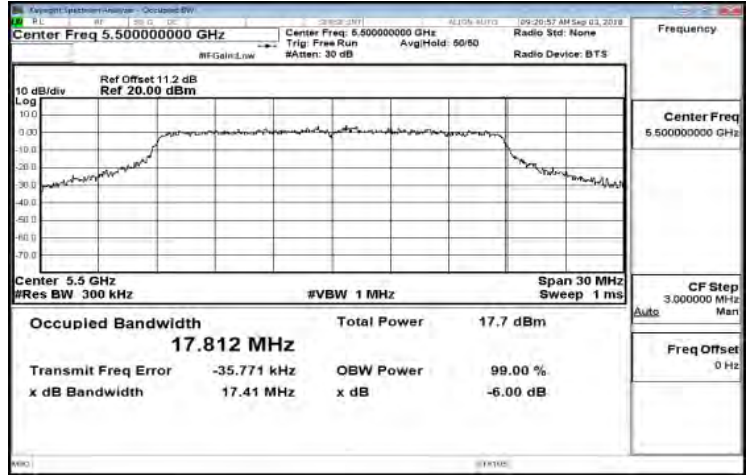
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IC_802.11n_20MHz_Main_5260MHz



IC_802.11n_20MHz_Main_5500MHz



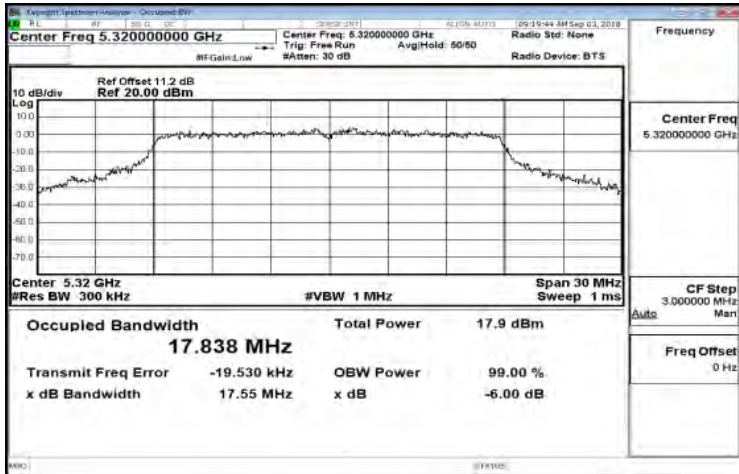
IC_802.11n_20MHz_Main_5300MHz



IC_802.11n_20MHz_Main_5580MHz



IC_802.11n_20MHz_Main_5320MHz



IC_802.11n_20MHz_Main_5700MHz

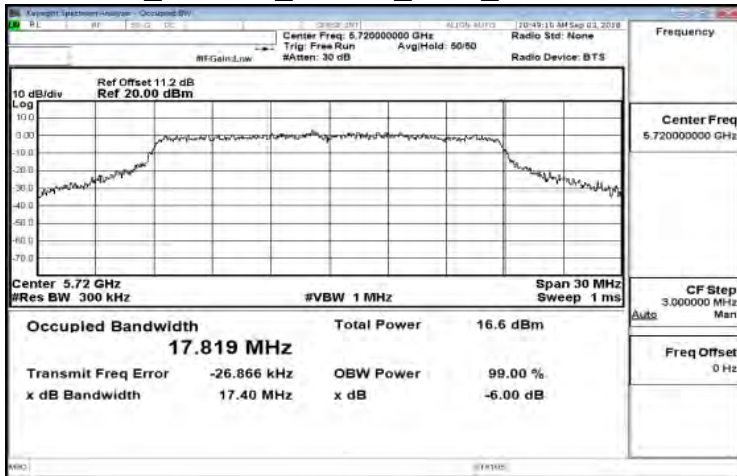


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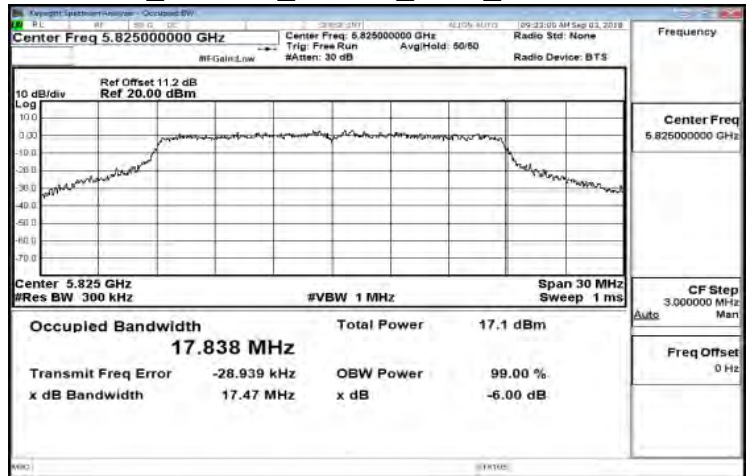
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IC_802.11n_20MHz_Main_5720MHz



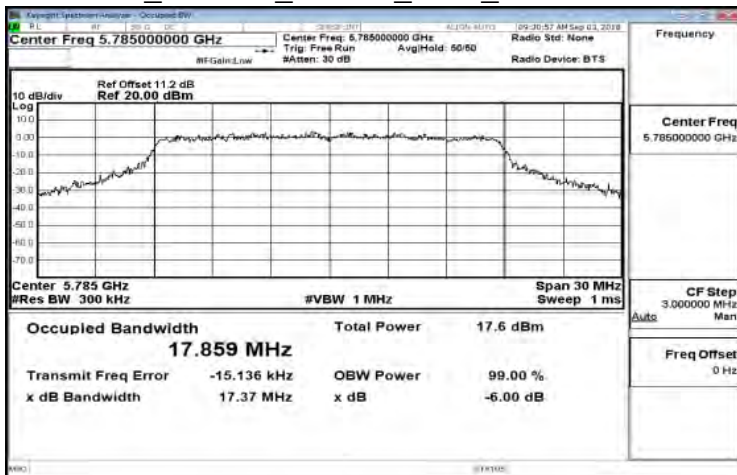
IC_802.11n_20MHz_Main_5825MHz



IC_802.11n_20MHz_Main_5745MHz



IC_802.11n_20MHz_Main_5785MHz

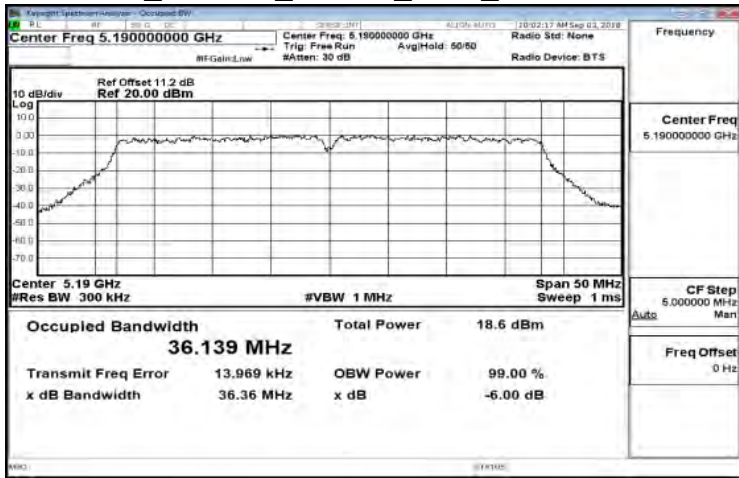


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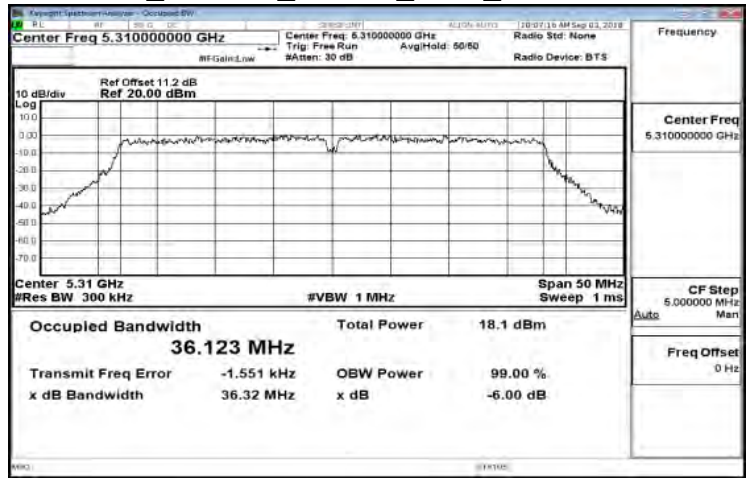
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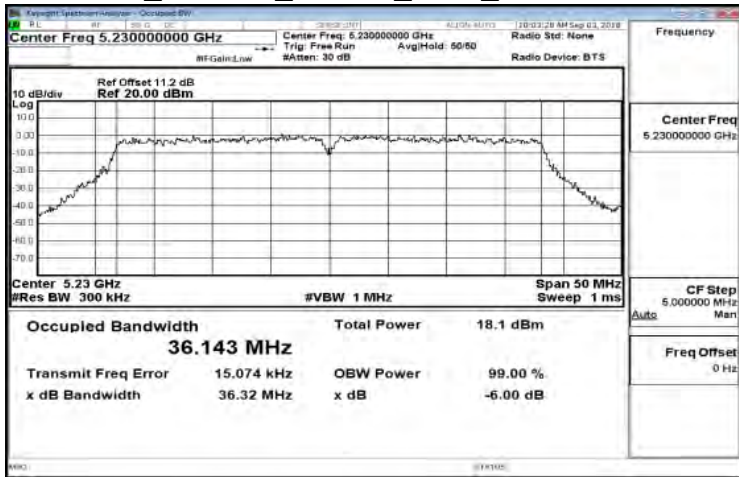
IC_802.11n_40MHz_Main_5190MHz



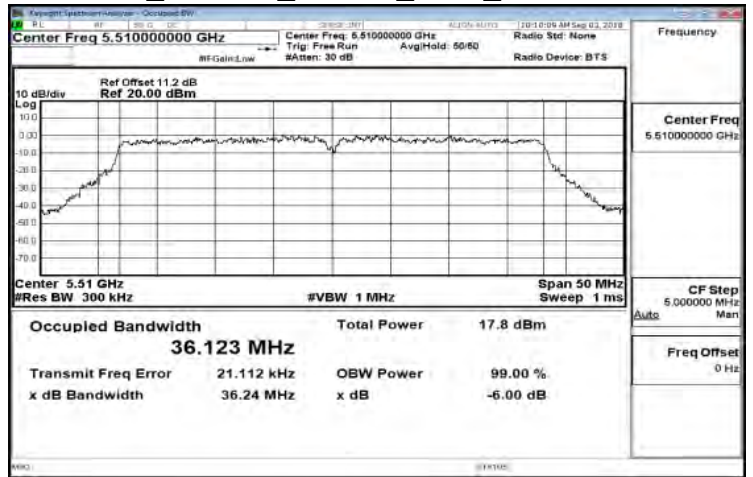
IC_802.11n_40MHz_Main_5310MHz



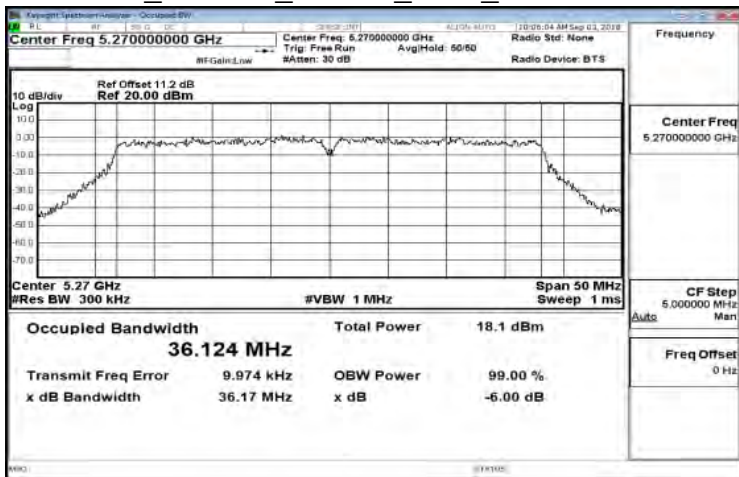
IC_802.11n_40MHz_Main_5230MHz



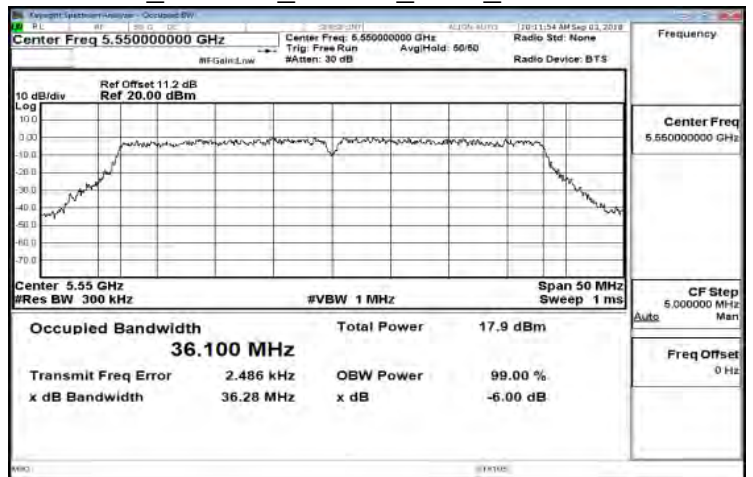
IC_802.11n_40MHz_Main_5510MHz



IC_802.11n_40MHz_Main_5270MHz



IC_802.11n_40MHz_Main_5550MHz

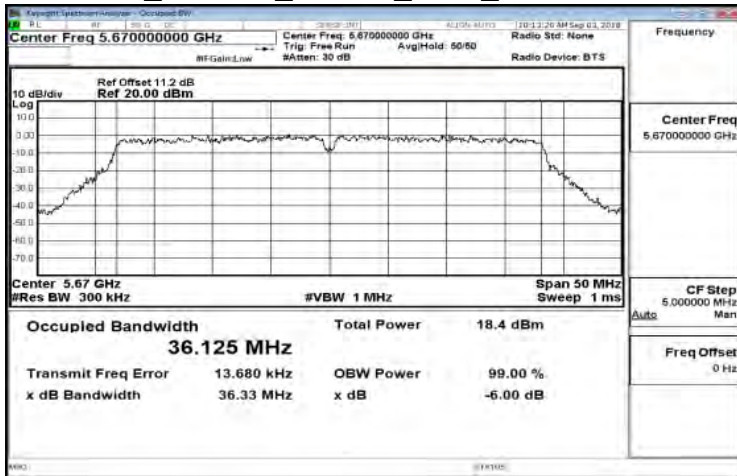


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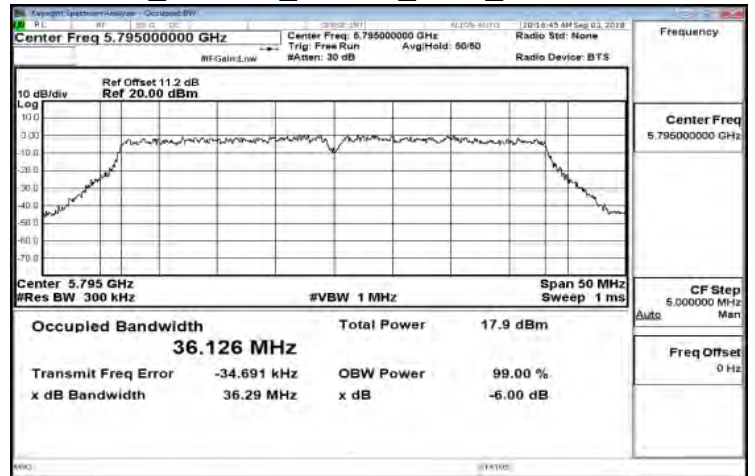
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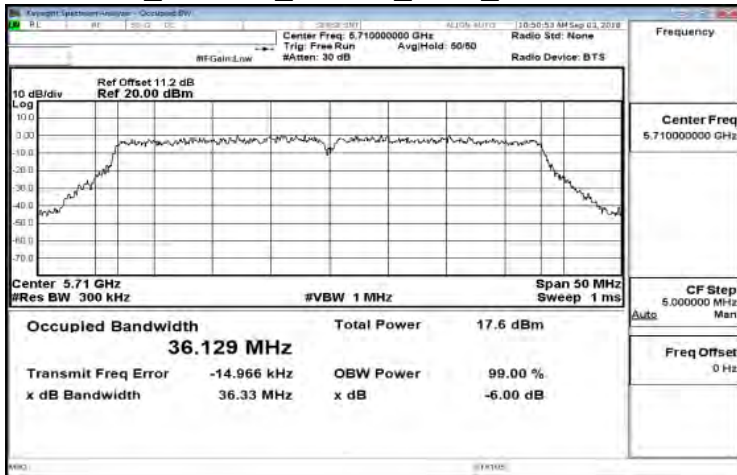
IC_802.11n_40MHz_Main_5670MHz



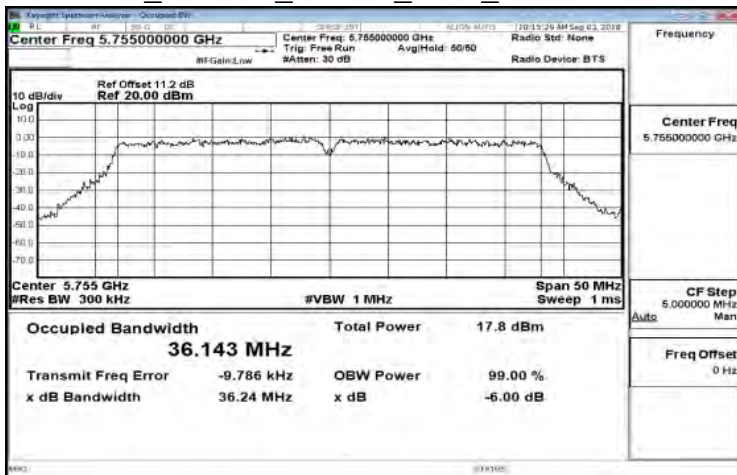
IC_802.11n_40MHz_Main_5795MHz



IC_802.11n_40MHz_Main_5710MHz



IC_802.11n_40MHz_Main_5755MHz

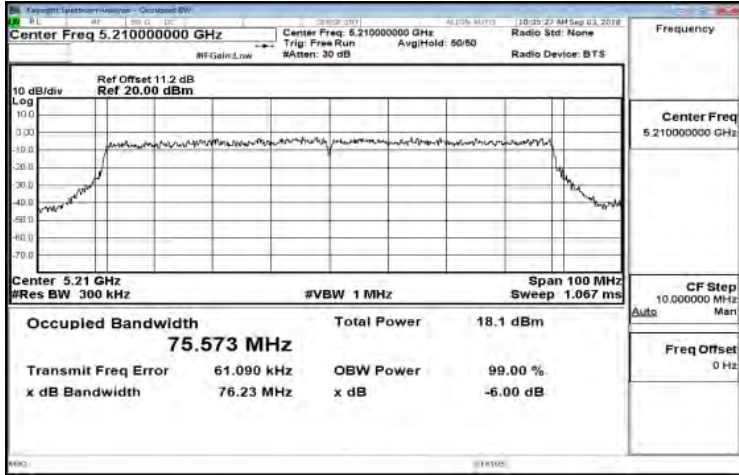


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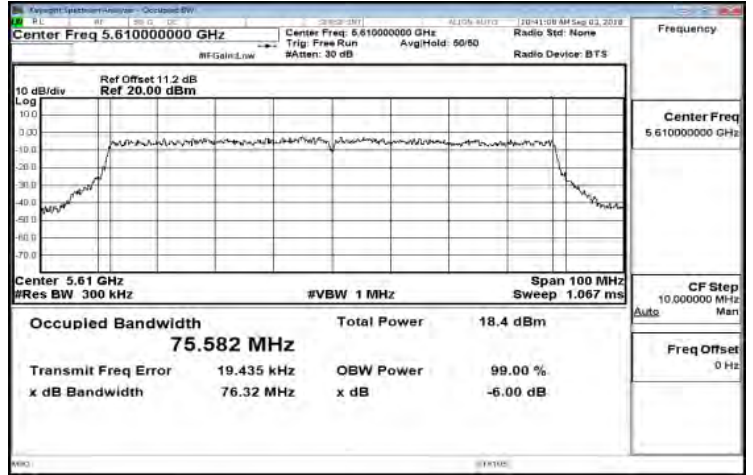
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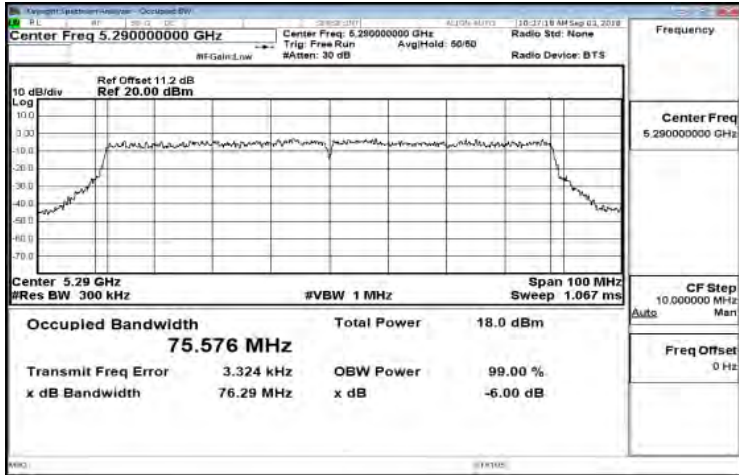
IC_802.11ac_80MHz_Main_5210MHz



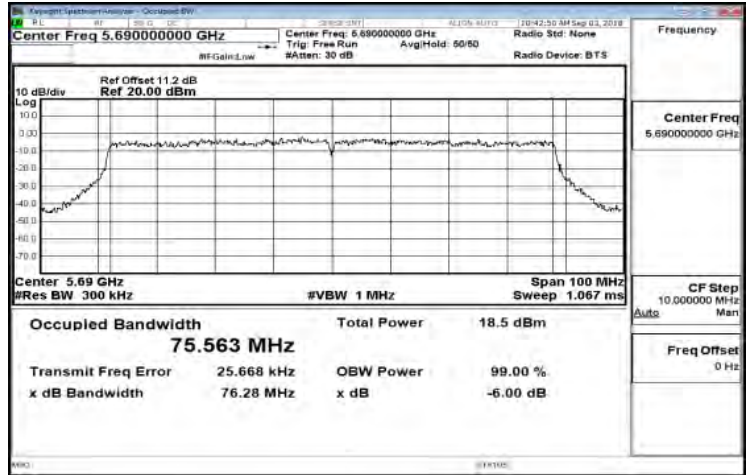
IC_802.11ac_80MHz_Main_5610MHz



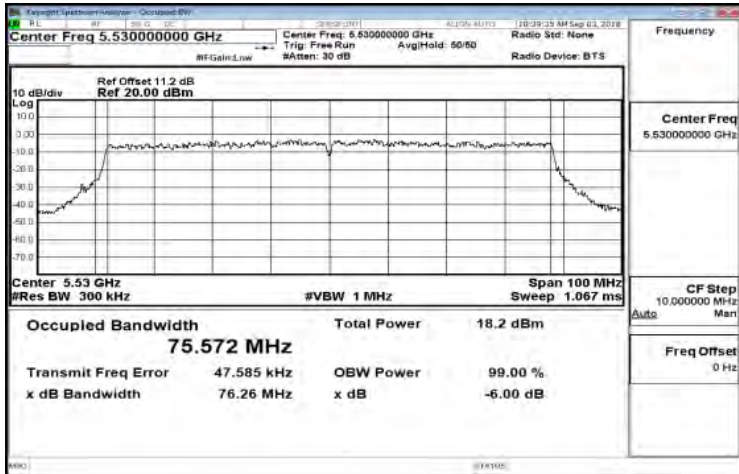
IC_802.11ac_80MHz_Main_5290MHz



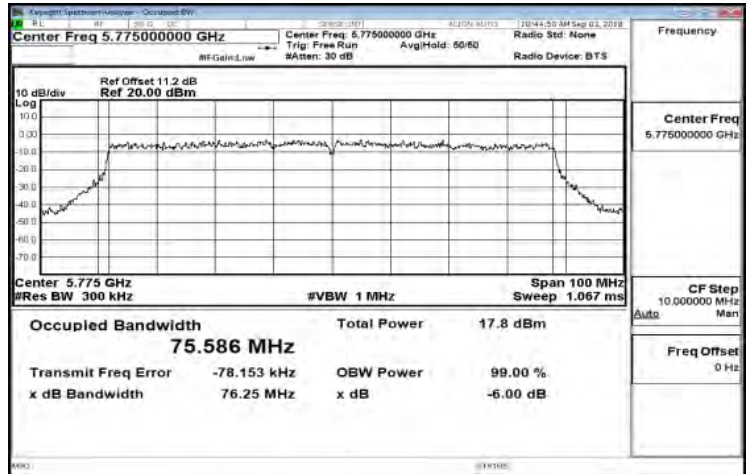
IC_802.11ac_80MHz_Main_5690MHz



IC_802.11ac_80MHz_Main_5530MHz



IC_802.11ac_80MHz_Main_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

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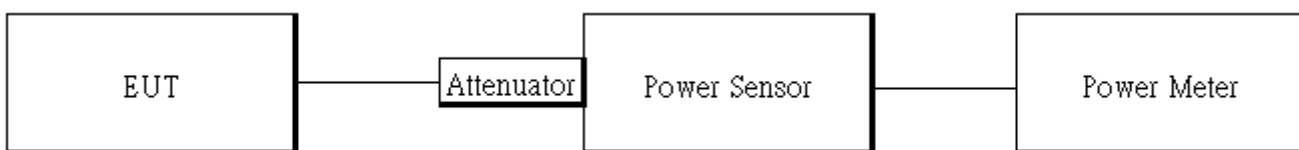
9.2 Measurement Procedure

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
Power Meter	Anritsu	ML2496A	1326001	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29

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	12.74	18.799	23.98	PASS
44	5220	6	12.75	18.842	23.98	PASS
48	5240	6	12.59	18.161	23.98	PASS
52	5260	6	12.73	18.756	23.98 or $11+10\log(B) = 24.29$	PASS
60	5300	6	12.91	19.550	23.98 or $11+10\log(B) = 24.28$	PASS
64	5320	6	12.96	19.776	23.98 or $11+10\log(B) = 24.28$	PASS
100	5500	6	12.57	18.077	23.98 or $11+10\log(B) = 24.27$	PASS
116	5580	6	12.54	17.953	23.98 or $11+10\log(B) = 24.28$	PASS
140	5700	6	12.52	17.871	23.98 or $11+10\log(B) = 24.28$	PASS
144	5720(U-NII 2C)	6	9.88	9.726	23.98 or $11+10\log(B) = 21.87$	PASS
144	5720 (U-NII 3)	6	3.07	2.029	30	PASS
149	5745	6	12.81	19.105	30	PASS
157	5785	6	12.96	19.776	30	PASS
165	5825	6	12.82	19.149	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.63	18.312	23.98	PASS
44	5220	MCS0	12.59	18.144	23.98	PASS
48	5240	MCS0	12.95	19.712	23.98	PASS
52	5260	MCS0	12.55	17.978	23.98 or $11+10\log(B) = 24.40$	PASS
60	5300	MCS0	12.70	18.609	23.98 or $11+10\log(B) = 24.33$	PASS
64	5320	MCS0	12.75	18.825	23.98 or $11+10\log(B) = 24.28$	PASS
100	5500	MCS0	12.87	19.352	23.98 or $11+10\log(B) = 24.29$	PASS
116	5580	MCS0	12.75	18.825	23.98 or $11+10\log(B) = 24.28$	PASS
140	5700	MCS0	12.96	19.757	23.98 or $11+10\log(B) = 24.31$	PASS
144	5720(U-NII 2C)	MCS0	9.69	9.313	23.98 or $11+10\log(B) = 22.12$	PASS
144	5720 (U-NII 3)	MCS0	2.95	1.971	30	PASS
149	5745	MCS0	12.90	19.486	30	PASS
157	5785	MCS0	12.93	19.621	30	PASS
165	5825	MCS0	12.72	18.695	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.59	18.156	23.98	PASS
44	5220	MCS0	12.55	17.990	23.98	PASS
48	5240	MCS0	12.93	19.635	23.98	PASS
52	5260	MCS0	12.51	17.825	23.98 or $11+10\log(B) = 24.39$	PASS
60	5300	MCS0	12.65	18.409	23.98 or $11+10\log(B) = 24.36$	PASS
64	5320	MCS0	12.70	18.622	23.98 or $11+10\log(B) = 24.35$	PASS
100	5500	MCS0	12.84	19.232	23.98 or $11+10\log(B) = 24.27$	PASS
116	5580	MCS0	12.71	18.665	23.98 or $11+10\log(B) = 24.34$	PASS
140	5700	MCS0	12.90	19.499	23.98 or $11+10\log(B) = 24.28$	PASS
144	5720(U-NII 2C)	MCS0	9.67	9.268	23.98 or $11+10\log(B) = 22.12$	PASS
144	5720 (U-NII 3)	MCS0	2.94	1.968	30	PASS
149	5745	MCS0	12.84	19.232	30	PASS
157	5785	MCS0	12.88	19.410	30	PASS
165	5825	MCS0	12.69	18.579	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.84	19.215	23.98	PASS
46	5230	MCS0	12.60	18.182	23.98	PASS
54	5270	MCS0	12.84	19.215	23.98 or $11+10\log(B) = 26.90$	PASS
62	5310	MCS0	12.91	19.527	23.98 or $11+10\log(B) = 26.92$	PASS
102	5510	MCS0	12.96	19.754	23.98 or $11+10\log(B) = 26.96$	PASS
110	5550	MCS0	12.98	19.845	23.98 or $11+10\log(B) = 26.96$	PASS
134	5670	MCS0	12.97	19.799	23.98 or $11+10\log(B) = 26.96$	PASS
142	5710(U-NII 2C)	MCS0	11.58	14.389	23.98 or $11+10\log(B) = 25.96$	PASS
142	5710 (U-NII 3)	MCS0	1.38	1.373	30	PASS
151	5755	MCS0	12.94	19.663	30	PASS
159	5795	MCS0	12.99	19.890	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.81	19.101	23.98	PASS
46	5230	MCS0	12.58	18.116	23.98	PASS
54	5270	MCS0	12.80	19.057	23.98 or $11+10\log(B) = 26.97$	PASS
62	5310	MCS0	12.90	19.501	23.98 or $11+10\log(B) = 26.97$	PASS
102	5510	MCS0	12.94	19.681	23.98 or $11+10\log(B) = 26.96$	PASS
110	5550	MCS0	12.92	19.591	23.98 or $11+10\log(B) = 27.03$	PASS
134	5670	MCS0	12.93	19.636	23.98 or $11+10\log(B) = 27.02$	PASS
142	5710(U-NII 2C)	MCS0	11.54	14.253	23.98 or $11+10\log(B) = 25.96$	PASS
142	5710 (U-NII 3)	MCS0	1.37	1.371	30	PASS
151	5755	MCS0	12.88	19.411	30	PASS
159	5795	MCS0	12.97	19.818	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.51	17.825	23.98	PASS
58	5290	MCS0	12.62	18.282	23.98 or $11+10\log(B) = 30.00$	PASS
106	5530	MCS0	12.77	18.925	23.98 or $11+10\log(B) = 30.03$	PASS
122	5610	MCS0	12.64	18.367	23.98 or $11+10\log(B) = 30.00$	PASS
138	5690(U-NII 2C)	MCS0	12.12	16.305	23.98 or $11+10\log(B) = 29.74$	PASS
138	5690 (U-NII 3)	MCS0	0.69	1.171	30	PASS
155	5775	MCS0	12.71	18.665	30	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	12.73	18.756	23.98 or $11+10\log(B) = 23.21$	PASS
60	5300	12.91	19.550	23.98 or $11+10\log(B) = 23.21$	PASS
64	5320	12.96	19.776	23.98 or $11+10\log(B) = 23.22$	PASS
100	5500	12.57	18.077	23.98 or $11+10\log(B) = 23.22$	PASS
116	5580	12.54	17.953	23.98 or $11+10\log(B) = 23.21$	PASS
140	5700	12.52	17.871	23.98 or $11+10\log(B) = 23.22$	PASS
144	5720(U-NII 2C)	9.88	9.726	23.98 or $11+11\log(B) = 22.04$	PASS
144	5720 (U-NII 3)	3.07	2.029	30	PASS
149	5745	12.81	19.105	30	PASS
157	5785	12.96	19.776	30	PASS
165	5825	12.82	19.149	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.55	17.978	23.98 or $11+10\log(B) = 23.50$	PASS
60	5300	12.70	18.609	23.98 or $11+10\log(B) = 23.50$	PASS
64	5320	12.75	18.825	23.98 or $11+10\log(B) = 23.51$	PASS
100	5500	12.87	19.352	23.98 or $11+10\log(B) = 23.51$	PASS
116	5580	12.75	18.825	23.98 or $11+10\log(B) = 23.52$	PASS
140	5700	12.96	19.757	23.98 or $11+10\log(B) = 23.52$	PASS
144	5720(U-NII 2C)	9.69	9.313	23.98 or $11+11\log(B) = 22.36$	PASS
144	5720 (U-NII 3)	2.95	1.971	30	PASS
149	5745	12.90	19.486	30	PASS
157	5785	12.93	19.621	30	PASS
165	5825	12.72	18.695	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.51	17.825	23.98 or 11+10log(B) = 23.51	PASS
60	5300	12.65	18.409	23.98 or 11+10log(B) = 23.51	PASS
64	5320	12.70	18.622	23.98 or 11+10log(B) = 23.51	PASS
100	5500	12.84	19.232	23.98 or 11+10log(B) = 23.51	PASS
116	5580	12.71	18.665	23.98 or 11+10log(B) = 23.52	PASS
140	5700	12.90	19.499	23.98 or 11+10log(B) = 23.51	PASS
144	5720(U-NII 2C)	9.67	9.268	23.98 or 11+11log(B) = 22.36	PASS
144	5720 (U-NII 3)	2.94	1.968	30	PASS
149	5745	12.84	19.232	30	PASS
157	5785	12.88	19.410	30	PASS
165	5825	12.69	18.579	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.84	19.215	23.98 or 11+10log(B) = 26.58	PASS
62	5310	12.91	19.527	23.98 or 11+10log(B) = 26.58	PASS
102	5510	12.96	19.754	23.98 or 11+10log(B) = 26.58	PASS
110	5550	12.98	19.845	23.98 or 11+10log(B) = 26.58	PASS
134	5670	12.97	19.799	23.98 or 11+10log(B) = 26.58	PASS
142	5710(U-NII 2C)	11.58	14.389	23.98 or 11+11log(B) = 26.09	PASS
142	5710 (U-NII 3)	1.38	1.373	30	PASS
151	5755	12.94	19.663	30	PASS
159	5795	12.99	19.890	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.80	19.057	23.98 or 11+10log(B) = 26.58	PASS
62	5310	12.90	19.501	23.98 or 11+10log(B) = 26.58	PASS
102	5510	12.94	19.681	23.98 or 11+10log(B) = 26.57	PASS
110	5550	12.92	19.591	23.98 or 11+10log(B) = 26.58	PASS
134	5670	12.93	19.636	23.98 or 11+10log(B) = 26.58	PASS
142	5710(U-NII 2C)	11.54	14.253	23.98 or 11+11log(B) = 26.09	PASS
142	5710 (U-NII 3)	1.37	1.371	30	PASS
151	5755	12.88	19.411	30	PASS
159	5795	12.97	19.818	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	12.62	18.282	23.98 or $11+10\log(B) = 29.78$	PASS
106	5530	12.77	18.925	23.98 or $11+10\log(B) = 29.78$	PASS
122	5610	12.64	18.367	23.98 or $11+11\log(B) = 29.78$	PASS
138	5690 (U-NII 3)	12.12	16.305	23.98 or $11+12\log(B) = 29.54$	PASS
138	5690 (U-NII 3)	0.69	1.171	30	PASS
155	5775	12.71	18.665	30	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	12.74	1.600	14.34	27.173	23.01 or 10+10log(B)= 22.22	PASS
44	5220	12.75	1.600	14.35	27.236	23.01 or 10+10log(B)= 22.22	PASS
48	5240	12.59	1.600	14.19	26.250	23.01 or 10+10log(B)= 22.21	PASS
52	5260	12.73	1.600	14.33	27.110	30 or 17+10log(B)= 29.21	PASS
60	5300	12.91	1.600	14.51	28.258	30 or 17+10log(B)= 29.21	PASS
64	5320	12.96	1.600	14.56	28.585	30 or 17+10log(B)= 29.22	PASS
100	5500	12.57	1.600	14.17	26.130	30 or 17+10log(B)= 29.22	PASS
116	5580	12.54	1.600	14.14	25.950	30 or 17+10log(B)= 29.21	PASS
140	5700	12.52	1.600	14.12	25.831	30 or 17+10log(B)= 29.22	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.63	1.600	14.23	26.469	23.01 or 10+10log(B)= 22.51	PASS
44	5220	12.59	1.600	14.19	26.226	23.01 or 10+10log(B)= 22.51	PASS
48	5240	12.95	1.600	14.55	28.492	23.01 or 10+10log(B)= 22.51	PASS
52	5260	12.55	1.600	14.15	25.985	30 or 17+10log(B)= 29.50	PASS
60	5300	12.70	1.600	14.30	26.899	30 or 17+10log(B)= 29.50	PASS
64	5320	12.75	1.600	14.35	27.210	30 or 17+10log(B)= 29.51	PASS
100	5500	12.87	1.600	14.47	27.972	30 or 17+10log(B)= 29.51	PASS
116	5580	12.75	1.600	14.35	27.210	30 or 17+10log(B)= 29.52	PASS
140	5700	12.96	1.600	14.56	28.558	30 or 17+10log(B)= 29.52	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.84	1.600	14.44	27.774	23.01 or 10+10log(B)= 25.58	PASS
46	5230	12.60	1.600	14.20	26.281	23.01 or 10+10log(B)= 25.58	PASS
54	5270	12.84	1.600	14.44	27.774	30 or 17+10log(B)= 32.58	PASS
62	5310	12.91	1.600	14.51	28.226	30 or 17+10log(B)= 32.58	PASS
102	5510	12.96	1.600	14.56	28.553	30 or 17+10log(B)= 32.58	PASS
110	5550	12.98	1.600	14.58	28.684	30 or 17+10log(B)= 32.58	PASS
134	5670	12.97	1.600	14.57	28.618	30 or 17+10log(B)= 32.58	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.51	1.600	14.11	25.765	23.01 or 10+10log(B)= 28.78	PASS
58	5290	12.62	1.600	14.22	26.426	30 or 17+10log(B)= 35.78	PASS
106	5530	12.77	1.600	14.37	27.355	30 or 17+10log(B)= 35.78	PASS

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10 PEAK 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 Acss 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

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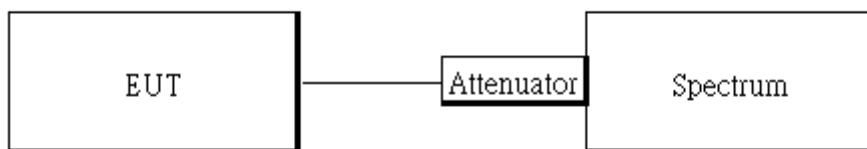
10.2 Measurement Procedure

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 Spectrum.
4. **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)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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	2019/06/19
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25

10.4 Test Set-up



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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	1.34	11.20	0.07	1.41	11	-9.59
5220	1.25	11.20	0.07	1.32	11	-9.68
5240	-0.60	11.20	0.07	-0.53	11	-11.53
5260	0.95	11.20	0.07	1.02	11	-9.98
5300	0.63	11.20	0.07	0.70	11	-10.30
5320	0.83	11.20	0.07	0.90	11	-10.10
5500	-0.72	11.20	0.07	-0.65	11	-11.65
5580	0.59	11.20	0.07	0.66	11	-10.34
5700	-0.29	11.20	0.07	-0.22	11	-11.22
5720 (U-NII 2C)	-1.67	11.20	0.07	-1.60	11	-12.60
5720 (U-NII 3)	-3.76	11.20	0.07	-3.69	30	-33.69
5745	6.17	11.20	-	6.17	30	-23.83
5785	5.13	11.20	-	5.13	30	-24.87
5825	5.72	11.20	-	5.72	30	-24.28

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	-0.73	11.20	0.09	-0.64	11	-11.64
5220	0.23	11.20	0.09	0.32	11	-10.68
5240	0.64	11.20	0.09	0.73	11	-10.27
5260	0.28	11.20	0.09	0.37	11	-10.63
5300	0.54	11.20	0.09	0.63	11	-10.37
5320	-0.01	11.20	0.09	0.08	11	-10.92
5500	-0.22	11.20	0.09	-0.13	11	-11.13
5580	0.54	11.20	0.09	0.63	11	-10.37
5700	0.39	11.20	0.09	0.48	11	-10.52
5720 (U-NII 2C)	-0.87	11.20	0.09	-0.79	11	-11.79
5720 (U-NII 3)	-2.93	11.20	0.09	-2.84	30	-32.84
5745	5.64	11.20	-	5.64	30	-24.36
5785	5.64	11.20	-	5.64	30	-24.36
5825	4.95	11.20	-	4.95	30	-25.05

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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	-1.9	11.20	0.17	-1.73	11	-12.73
5230	-3.15	11.20	0.17	-2.98	11	-13.98
5270	-2.65	11.20	0.17	-2.48	11	-13.48
5310	-1.97	11.20	0.17	-1.80	11	-12.80
5510	-2.75	11.20	0.17	-2.58	11	-13.58
5550	-3.18	11.20	0.17	-3.01	11	-14.01
5670	-1.95	11.20	0.17	-1.78	11	-12.78
5710 (U-NII 2C)	-3.38	11.20	0.17	-3.21	11	-14.21
5710 (U-NII 3)	-7.77	11.20	0.17	-7.60	30	-37.60
5755	2.03	11.20	-	2.03	30	-27.97
5795	2.13	11.20	-	2.13	30	-27.87

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	-6.50	11.20	0.32	-6.18	11	-17.18
5290	-6.92	11.20	0.32	-6.60	11	-17.60
5530	-6.25	11.20	0.32	-5.93	11	-16.93
5610	-6.41	11.20	0.32	-6.09	11	-17.09
5690 (U-NII 2C)	-6.42	11.20	0.32	-6.10	11	-17.10
5690 (U-NII 3)	-11.78	11.20	0.32	-11.46	30	-41.46
5775	-1.37	11.20	-	-1.37	30	-31.37

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	1.41	1.60	3.01	10	-6.99
5220	1.32	1.60	2.92	10	-7.08
5240	-0.53	1.60	1.07	10	-8.93

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.64	1.60	0.96	10	-9.04
5220	0.32	1.60	1.92	10	-8.08
5240	0.73	1.60	2.33	10	-7.67

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.73	1.60	-0.13	10	-10.13
5220	-2.98	1.60	-1.38	10	-11.38

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-6.18	1.60	-4.58	10	-14.58

Note:

SISO offset=

11.2

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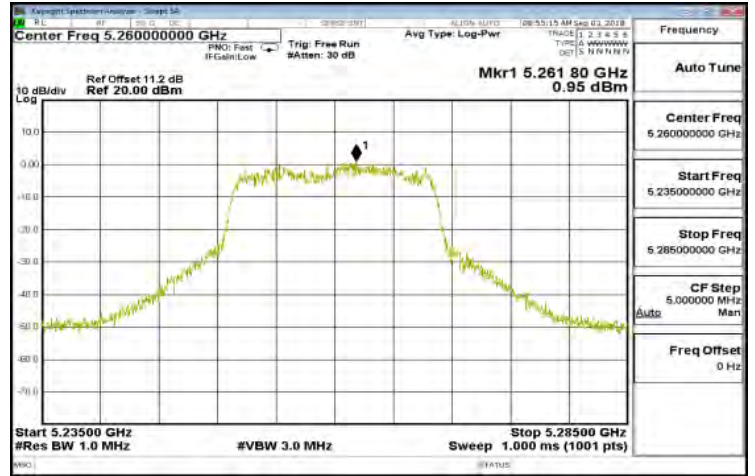
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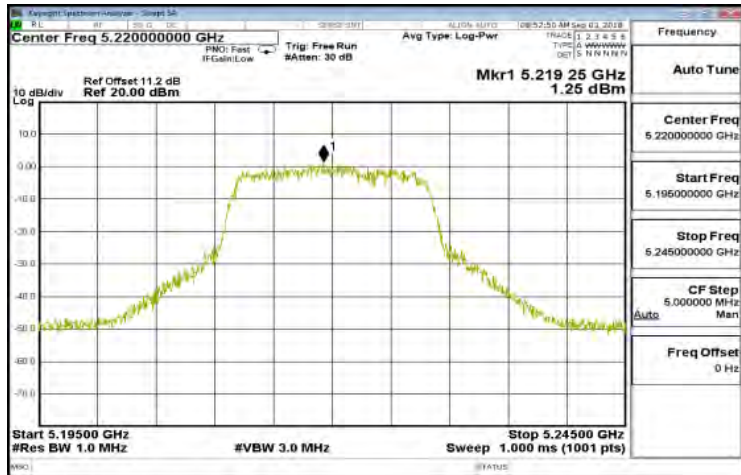
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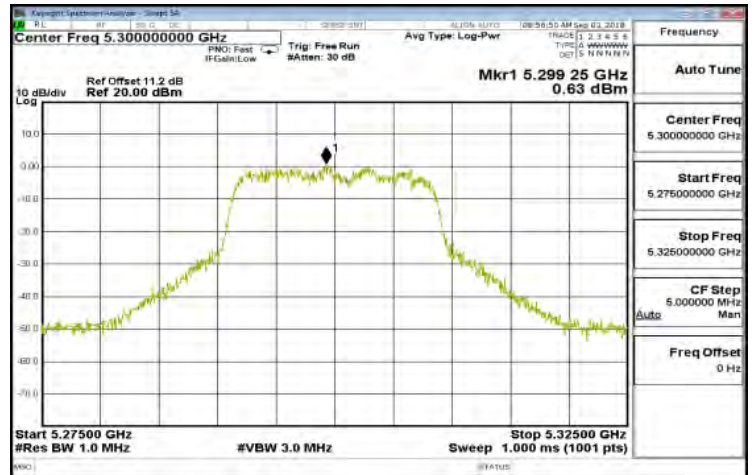
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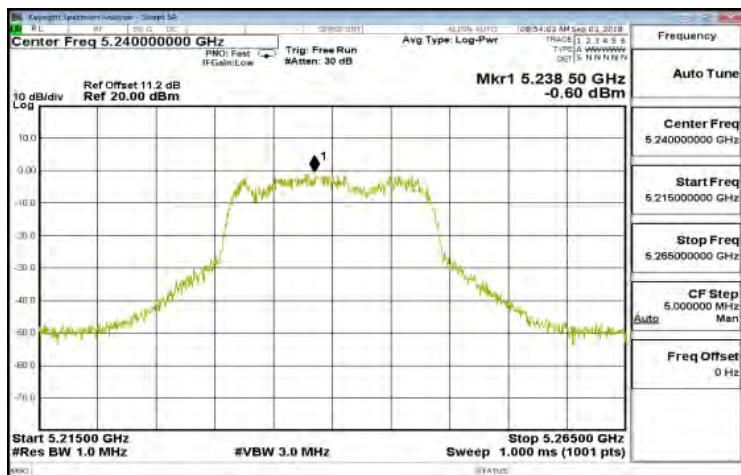
802.11a_20MHz_5220MHz



802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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802.11a_20MHz_5500MHz



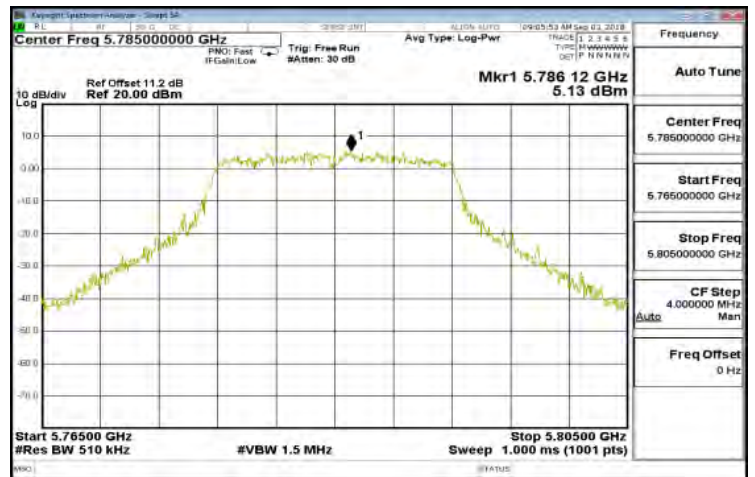
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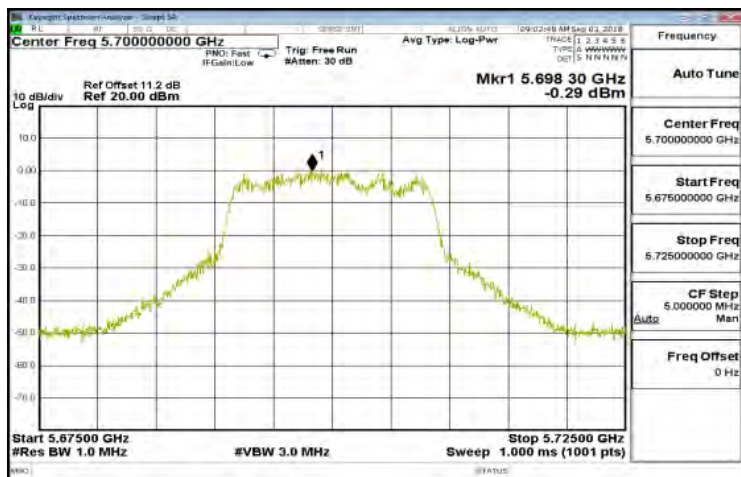
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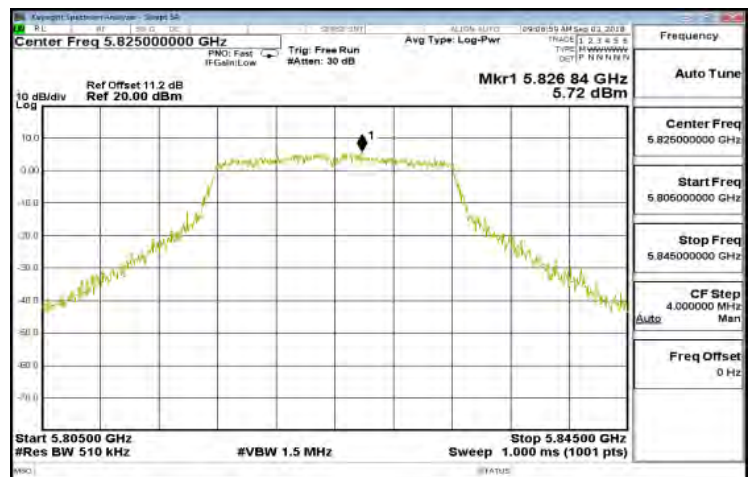
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802.11a_20MHz_5700MHz



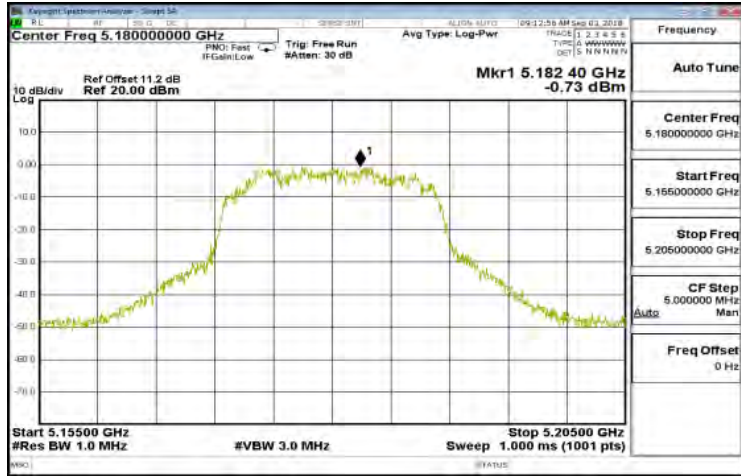
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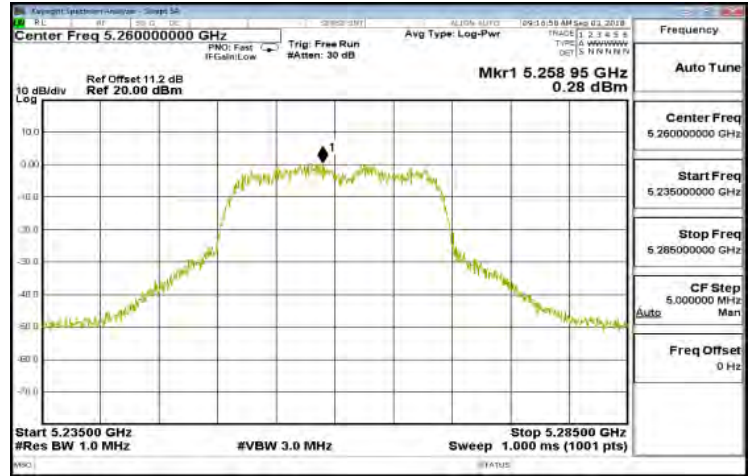
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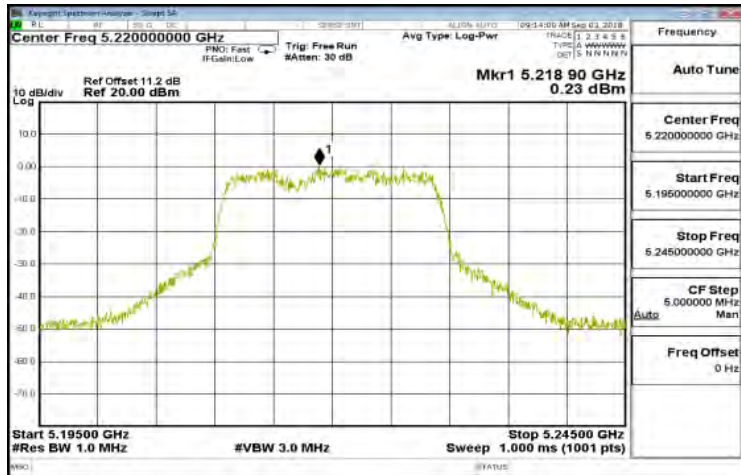
802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz



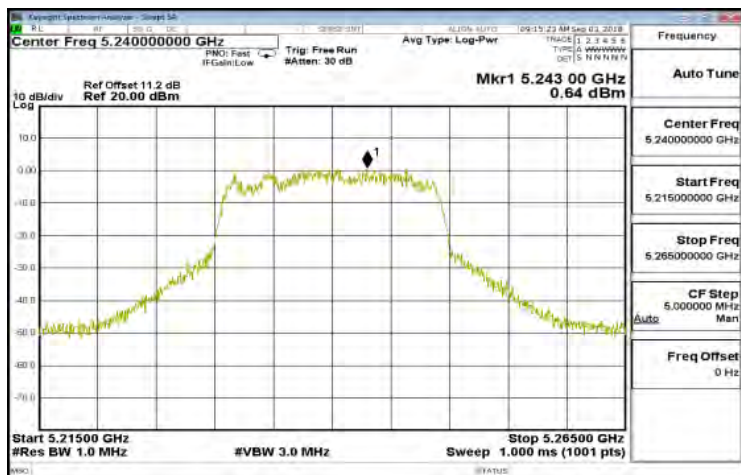
802.11n_20MHz_5220MHz



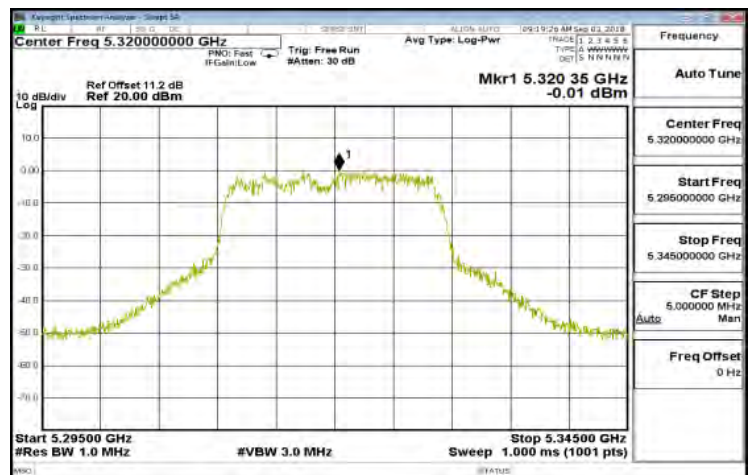
802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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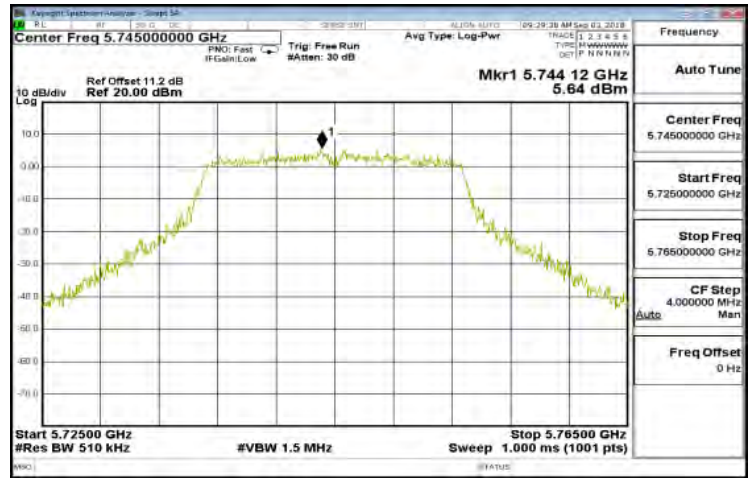
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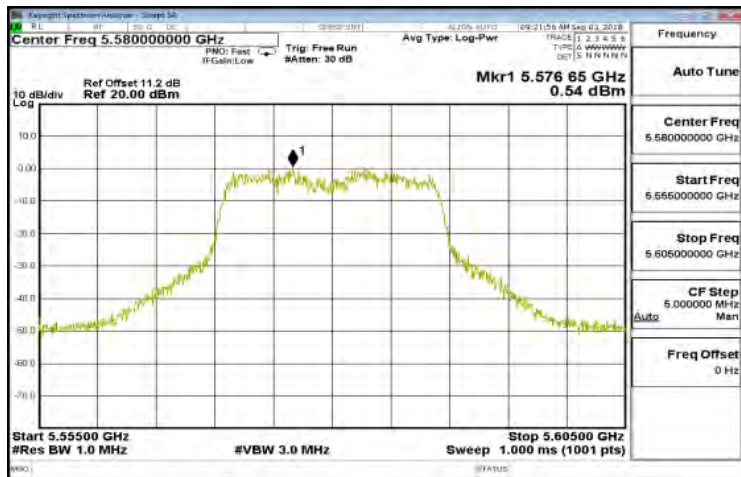
802.11n_20MHz_5500MHz



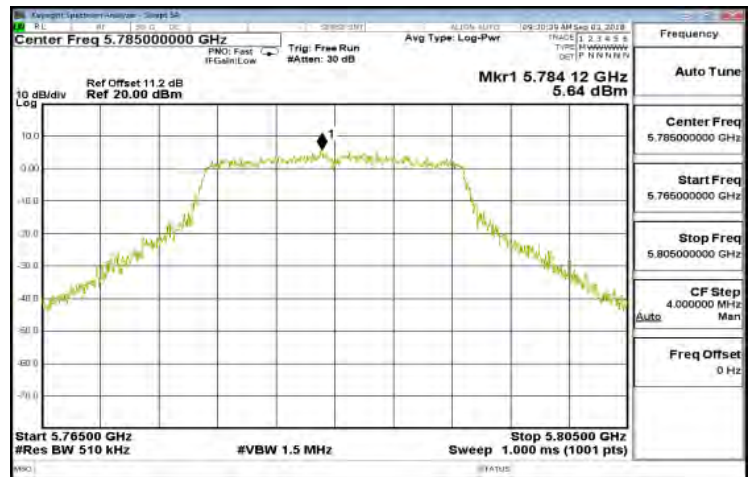
802.11n_20MHz_5745MHz



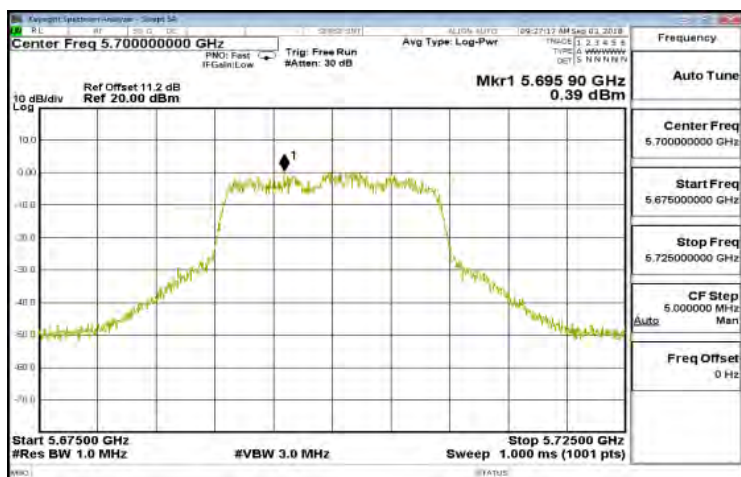
802.11n_20MHz_5580MHz



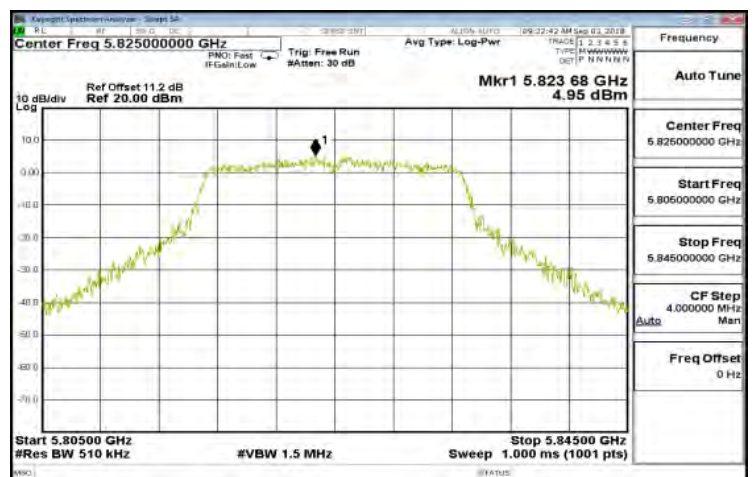
802.11n_20MHz_5785MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5825MHz

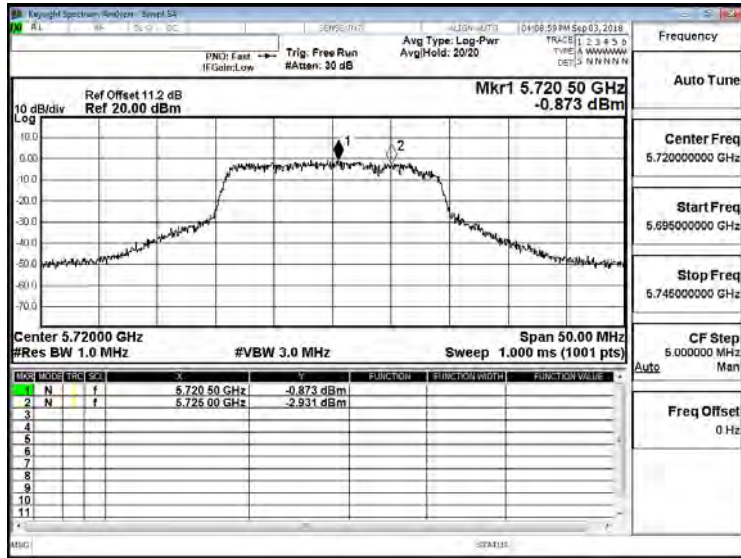


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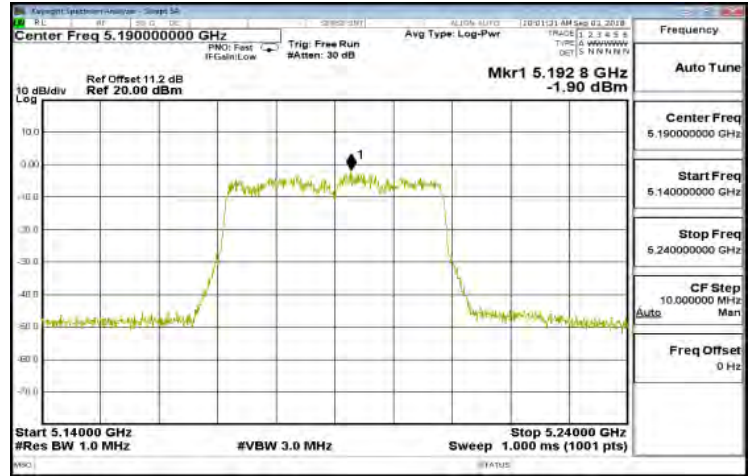
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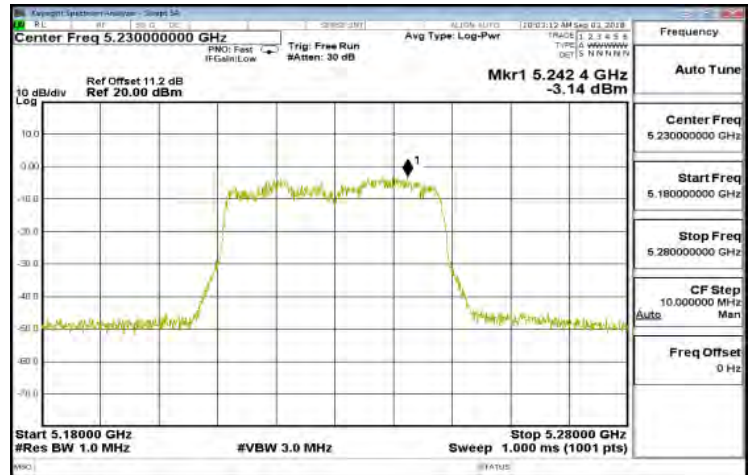
802.11n_20MHz_5720MHz



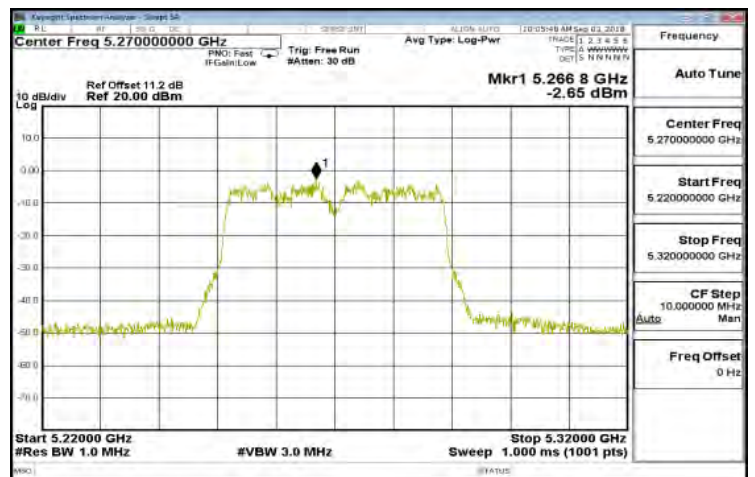
802.11n_40MHz_5190MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5270MHz



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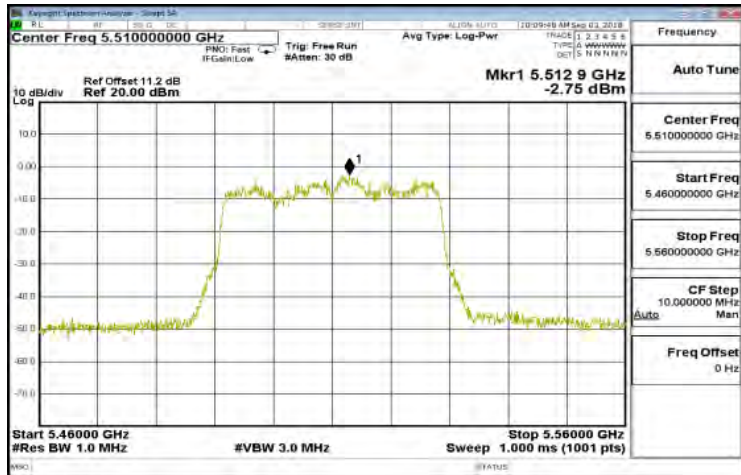
802.11n_40MHz_5310MHz



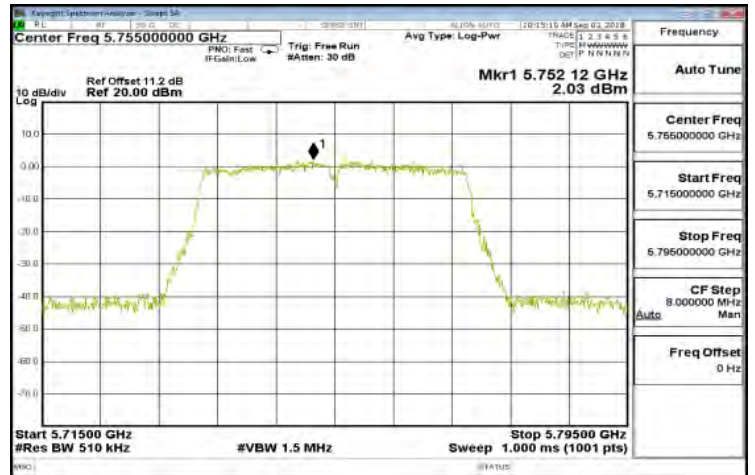
802.11n_40MHz_5670MHz



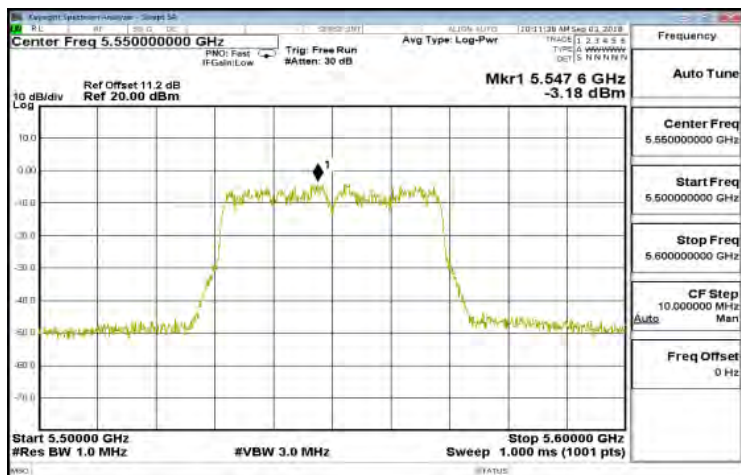
802.11n_40MHz_5510MHz



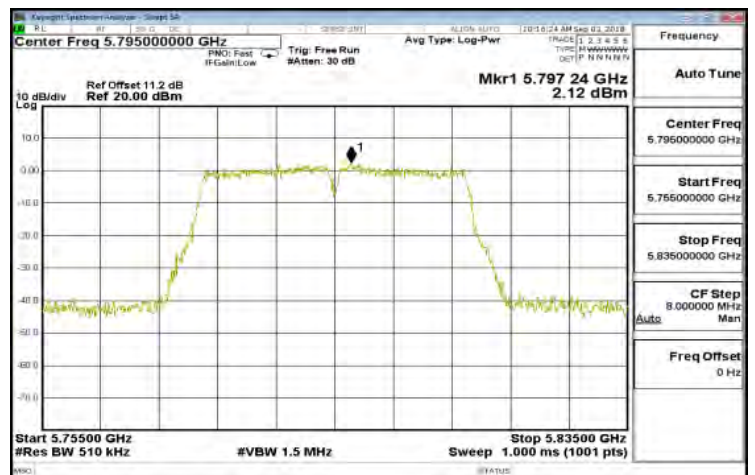
802.11n_40MHz_5755MHz



802.11n_40MHz_5550MHz



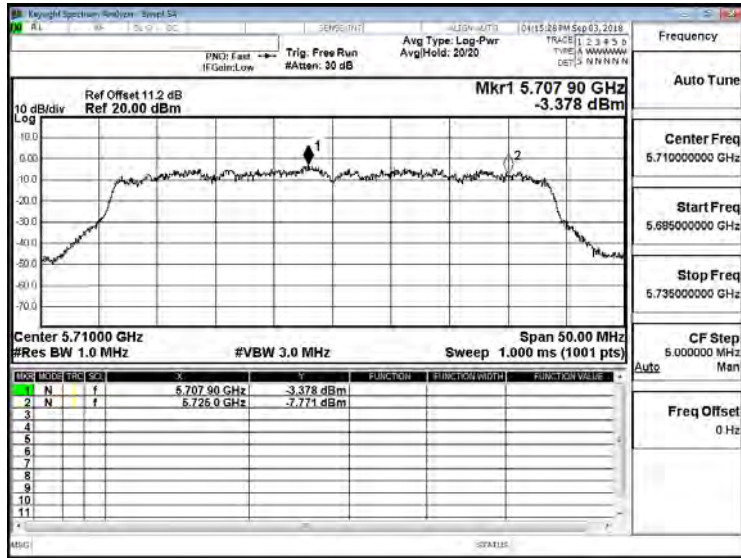
802.11n_40MHz_5795MHz



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802.11n_40MHz_5710MHz



802.11ac_80MHz_5210MHz



802.11ac_80MHz_5290MHz



802.11ac_80MHz_5530MHz



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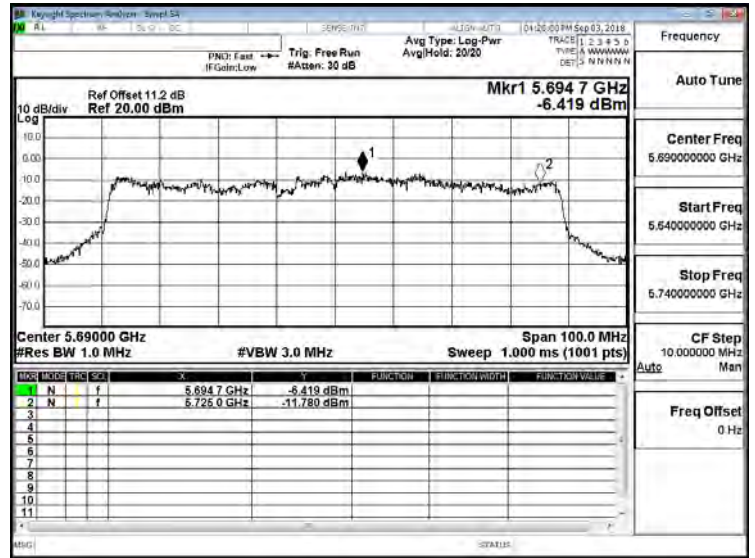
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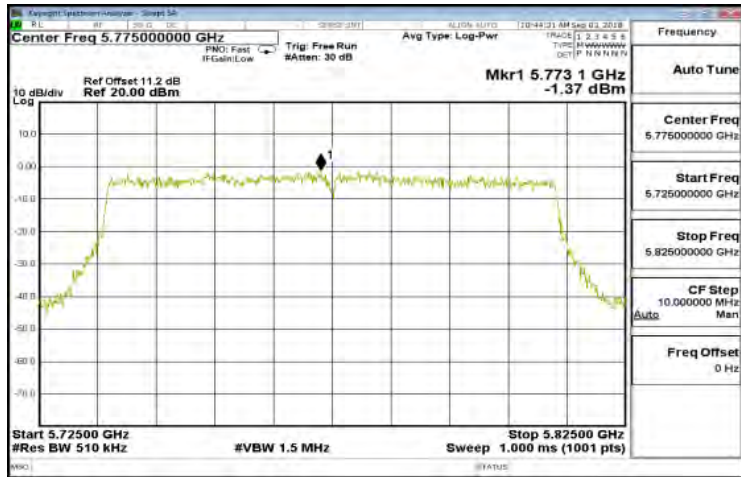
802.11ac_80MHz_5610MHz



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:

- 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.
- 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	TESEQ	CBL 6112D	35243	2017/11/10	2018/11/09
Horn Antenna	Schwarzbeck	BBHA9120D	1187	2018/01/04	2019/01/03
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Marvelous	WATT-218FS-10	RF246	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
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25

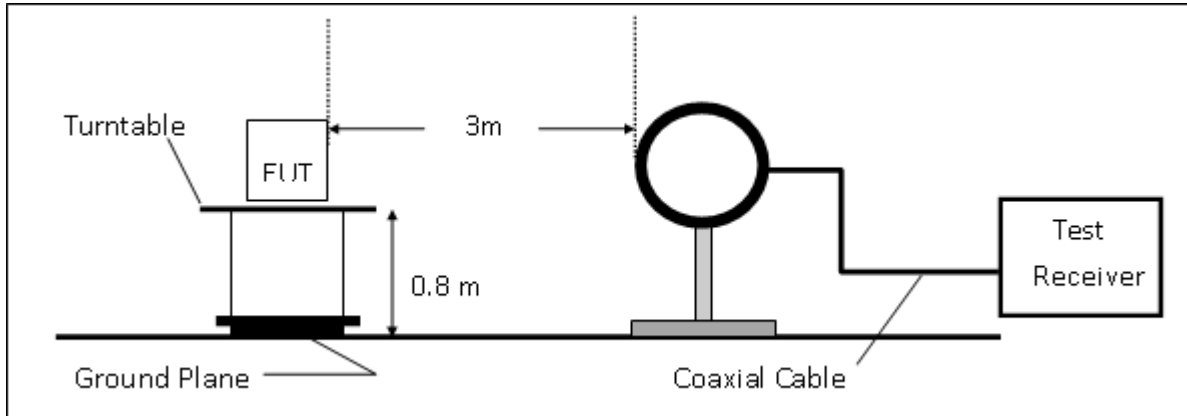
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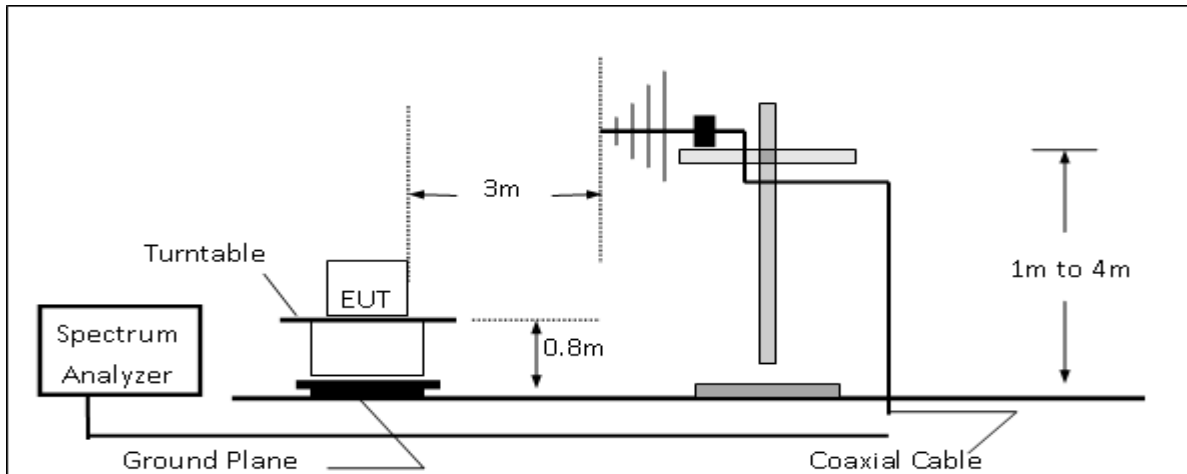
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11.3 Test SET-UP

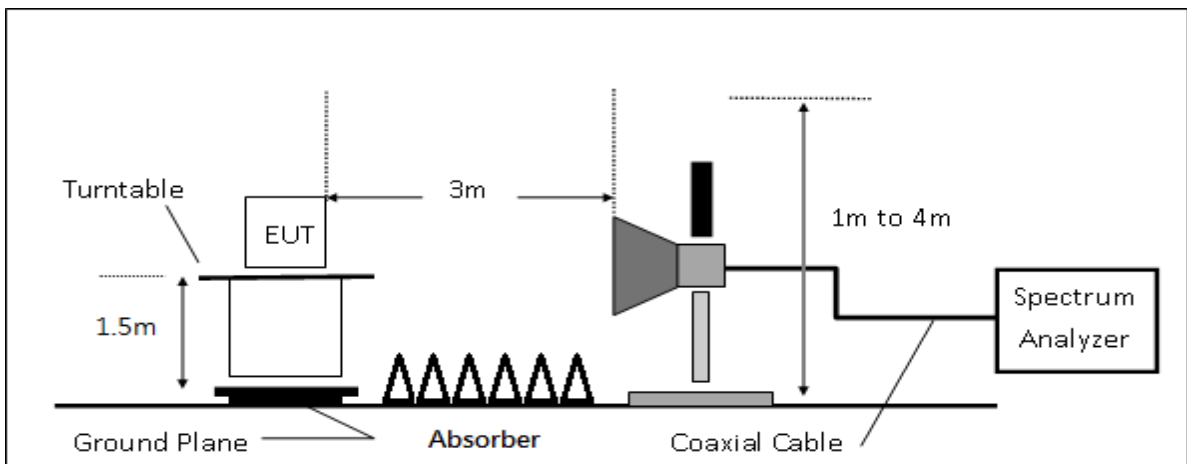
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

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

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

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

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

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

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

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

11.7 Measurement Result

Refer to next page for tabular data sheets.

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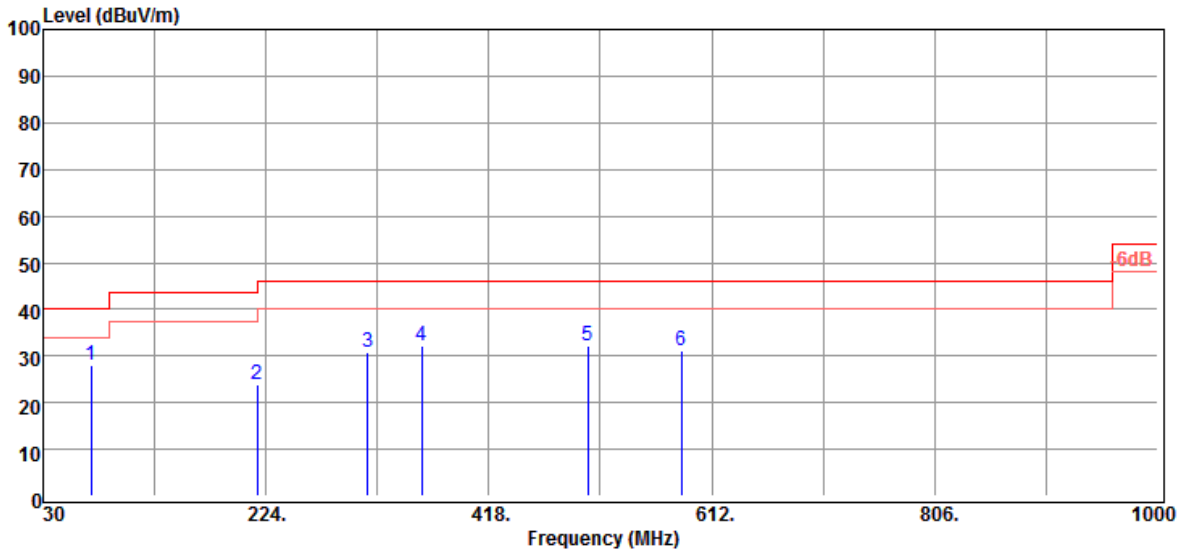
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode	:802.11a / Band 1	Test Date	:2018-08-27
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



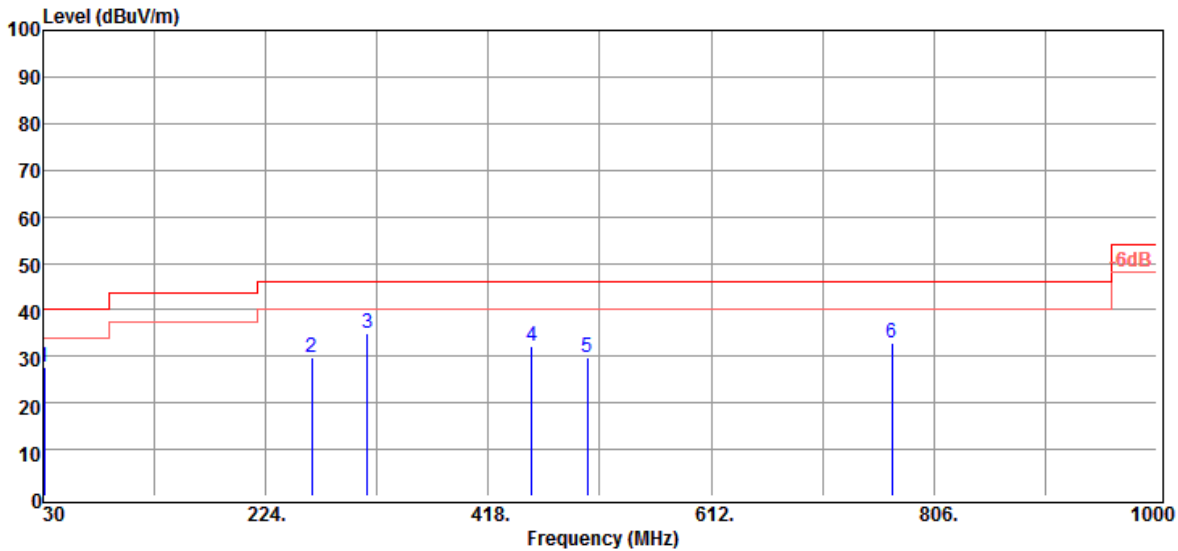
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
71.71	Peak	45.74	-17.71	28.03	40.00	-11.97
216.24	Peak	36.51	-12.77	23.74	46.00	-22.26
312.27	Peak	40.22	-9.44	30.78	46.00	-15.22
359.80	Peak	39.71	-7.61	32.10	46.00	-13.90
504.33	Peak	36.13	-4.12	32.01	46.00	-13.99
585.81	Peak	34.45	-3.20	31.25	46.00	-14.75

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Operation Mode	:802.11a / Band 1	Test Date	:2018-08-27
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
30.97	Peak	31.71	-4.16	27.55	40.00	-12.45
263.77	Peak	39.84	-10.09	29.75	46.00	-16.25
312.27	Peak	44.45	-9.44	35.01	46.00	-10.99
455.83	Peak	37.52	-5.25	32.27	46.00	-13.73
504.33	Peak	33.81	-4.12	29.69	46.00	-16.31
769.14	Peak	33.96	-0.96	33.00	46.00	-13.00

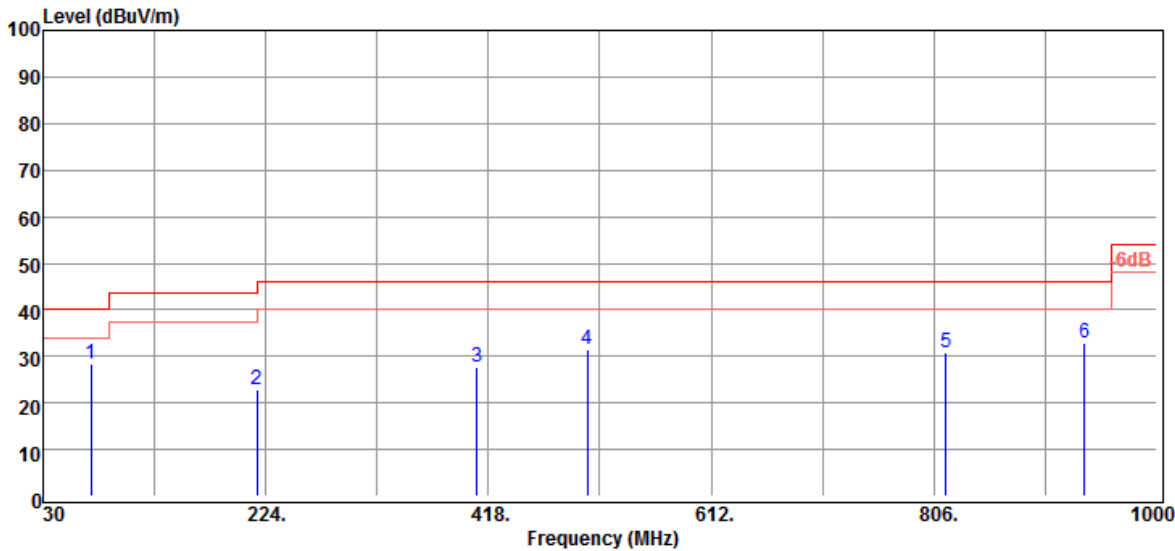
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802.11a 5250~5350 MHz

Operation Mode	:802.11a / Band 2	Test Date	:2018-08-27
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
71.71	Peak	46.01	-17.71	28.30	40.00	-11.70
216.24	Peak	35.76	-12.77	22.99	46.00	-23.01
408.30	Peak	33.67	-5.94	27.73	46.00	-18.27
504.33	Peak	35.59	-4.12	31.47	46.00	-14.53
816.67	Peak	30.69	0.02	30.71	46.00	-15.29
936.95	Peak	31.22	1.82	33.04	46.00	-12.96

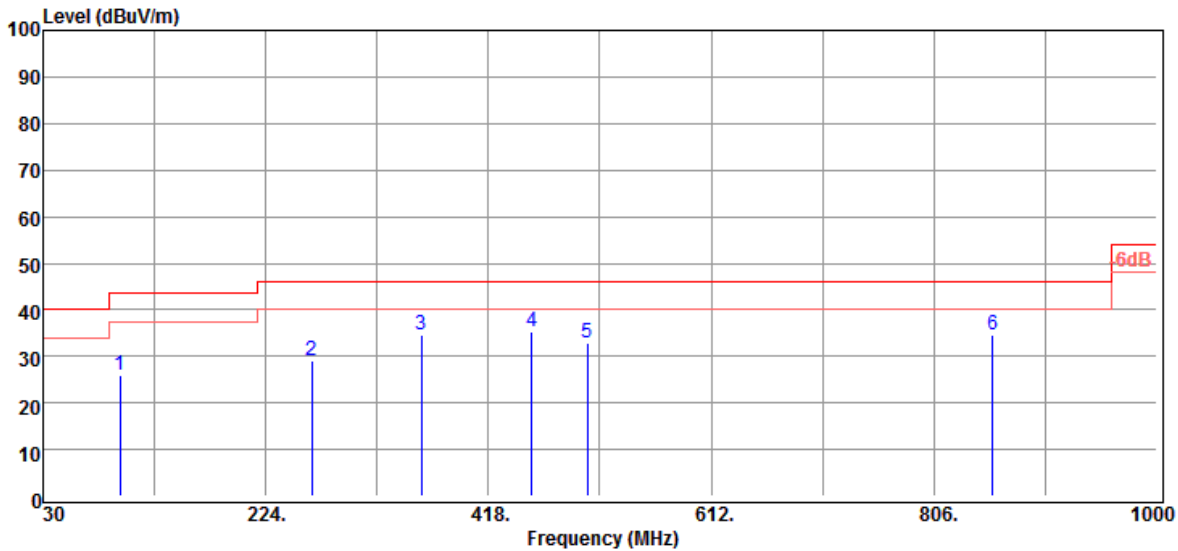
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Operation Mode :802.11a / Band 2
 Test Mode :TX CH MID
 EUT Pol :E2 Plan
 Test Channel :5300 MHz

Test Date :2018-08-27
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
96.93	Peak	41.34	-15.26	26.08	43.50	-17.42
263.77	Peak	39.04	-10.09	28.95	46.00	-17.05
359.80	Peak	42.21	-7.61	34.60	46.00	-11.40
455.83	Peak	40.42	-5.25	35.17	46.00	-10.83
504.33	Peak	36.82	-4.12	32.70	46.00	-13.30
857.41	Peak	33.66	0.80	34.46	46.00	-11.54

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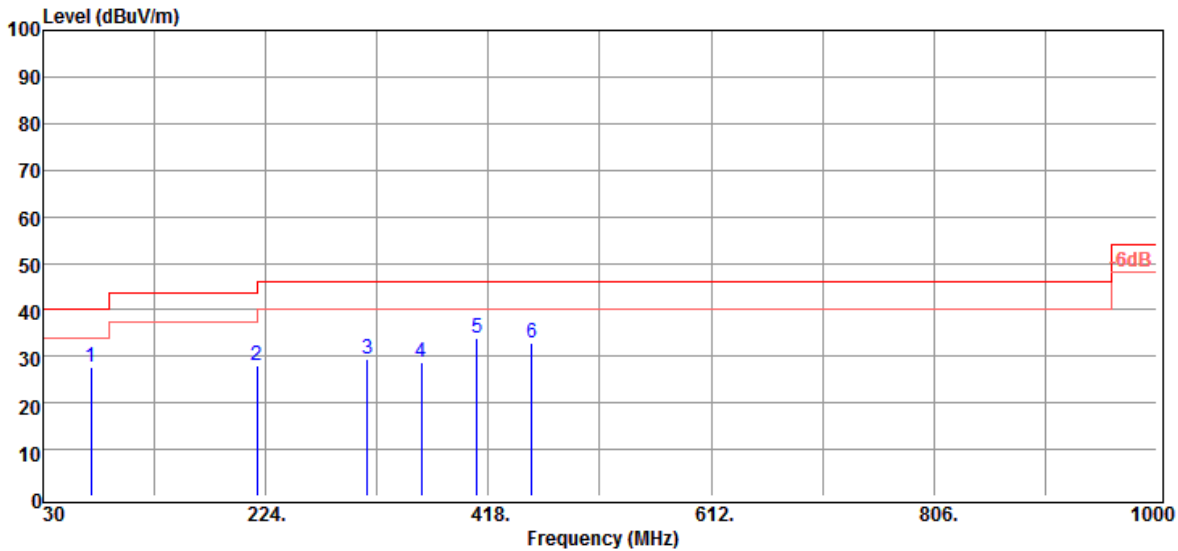
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802.11a, 5470~5725 MHz

Operation Mode :802.11a / Band 3
 Test Mode :TX CH MID
 EUT Pol :E2 Plan
 Test Channel :5580 MHz

Test Date :2018-08-27
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



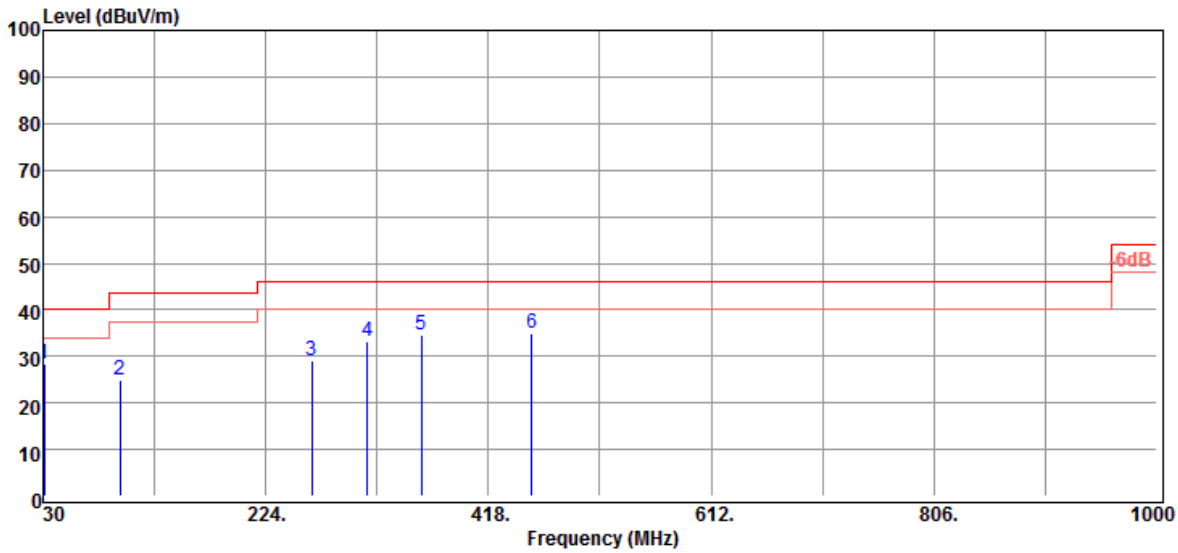
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
71.71	Peak	45.26	-17.71	27.55	40.00	-12.45
216.24	Peak	40.77	-12.77	28.00	46.00	-18.00
312.27	Peak	38.76	-9.44	29.32	46.00	-16.68
359.80	Peak	36.34	-7.61	28.73	46.00	-17.27
408.30	Peak	39.71	-5.94	33.77	46.00	-12.23
455.83	Peak	37.98	-5.25	32.73	46.00	-13.27

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Operation Mode	:802.11a / Band 3	Test Date	:2018-08-27
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
30.97	Peak	32.45	-4.16	28.29	40.00	-11.71
96.93	Peak	40.14	-15.26	24.88	43.50	-18.62
263.77	Peak	39.05	-10.09	28.96	46.00	-17.04
312.27	Peak	42.66	-9.44	33.22	46.00	-12.78
359.80	Peak	42.15	-7.61	34.54	46.00	-11.46
455.83	Peak	40.37	-5.25	35.12	46.00	-10.88

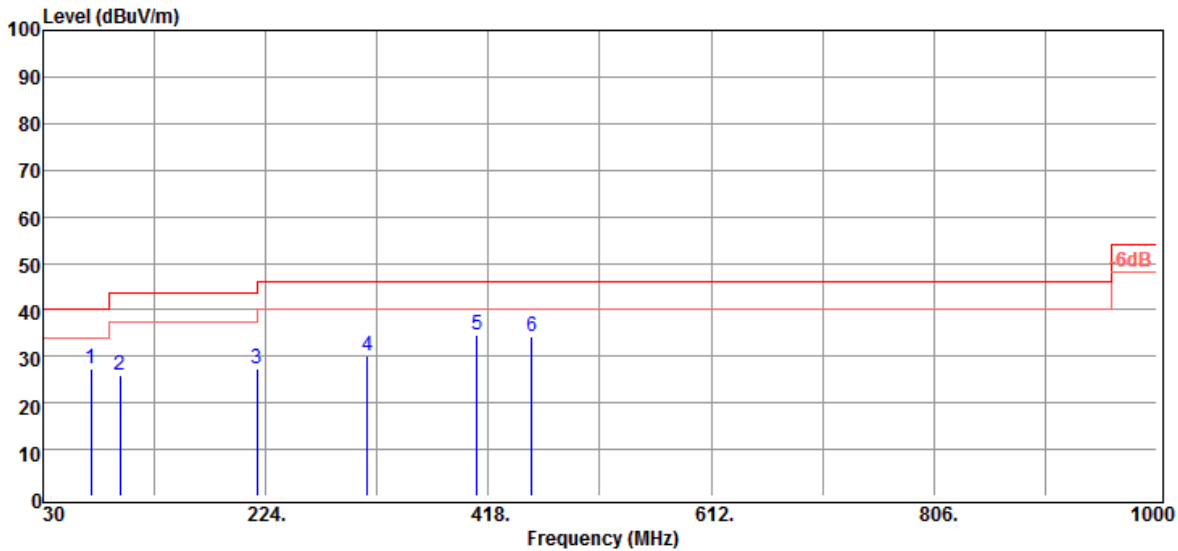
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802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band 4	Test Date	:2018-08-27
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Enzo



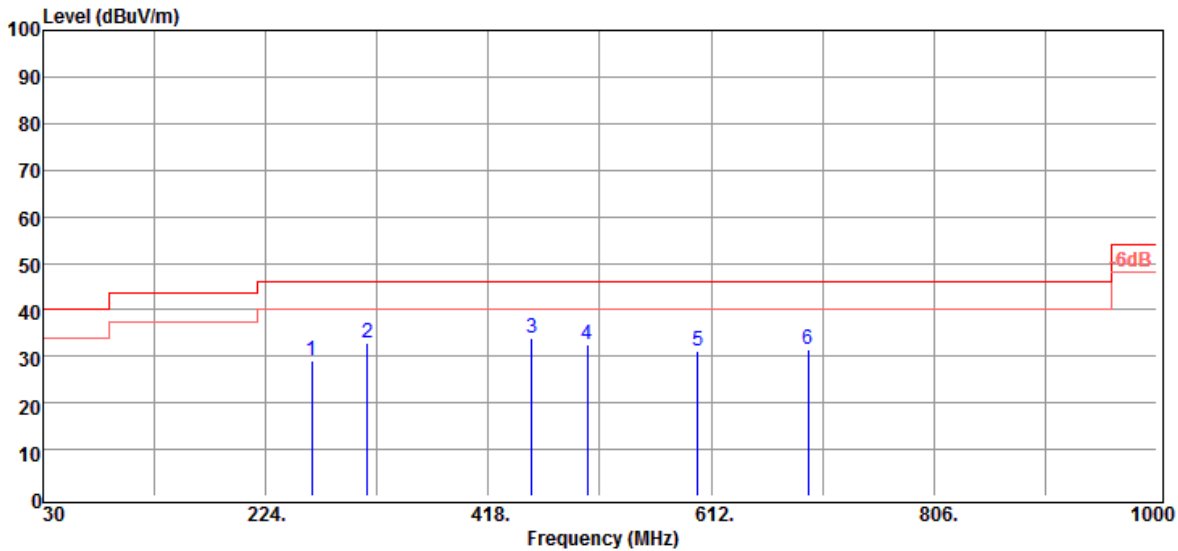
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
71.71	Peak	45.04	-17.71	27.33	40.00	-12.67
96.93	Peak	41.29	-15.26	26.03	43.50	-17.47
216.24	Peak	40.23	-12.77	27.46	46.00	-18.54
312.27	Peak	39.71	-9.44	30.27	46.00	-15.73
408.30	Peak	40.39	-5.94	34.45	46.00	-11.55
455.83	Peak	39.54	-5.25	34.29	46.00	-11.71

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Operation Mode	:802.11a / Band 4	Test Date	:2018-08-27
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
263.77	Peak	39.30	-10.09	29.21	46.00	-16.79
312.27	Peak	42.48	-9.44	33.04	46.00	-12.96
455.83	Peak	39.19	-5.25	33.94	46.00	-12.06
504.33	Peak	36.77	-4.12	32.65	46.00	-13.35
600.36	Peak	34.27	-3.22	31.05	46.00	-14.95
696.39	Peak	33.19	-1.63	31.56	46.00	-14.44

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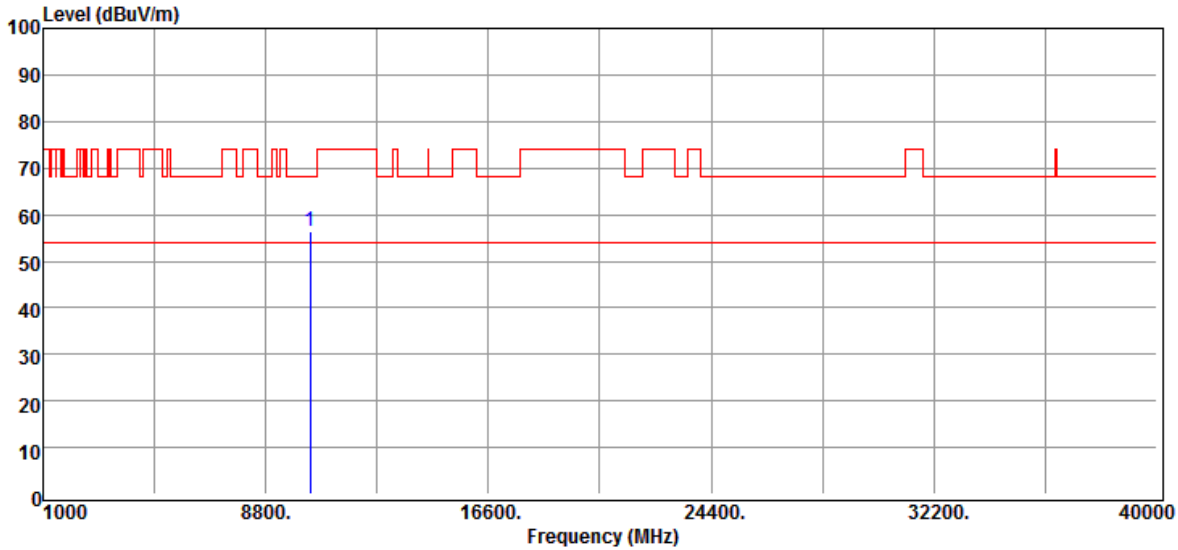
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Above 1GHz Worst-Case Data:

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

Operation Mode	:802.11a / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	29.96	26.61	56.57	68.20	-11.63

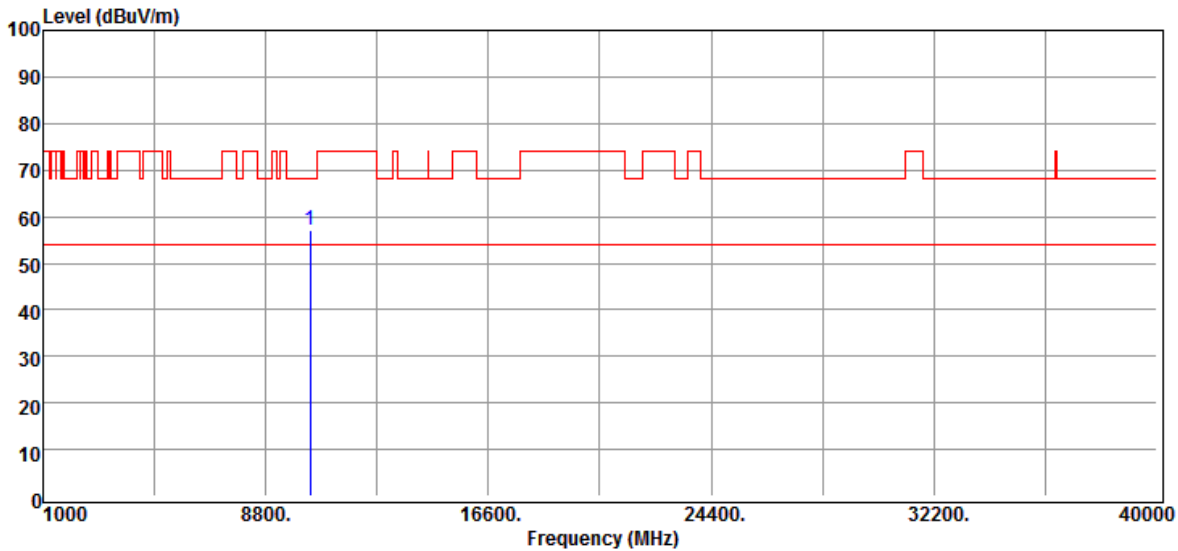
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Operation Mode :802.11a / Band 1
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Channel :5180 MHz

Test Date :2018-09-04
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



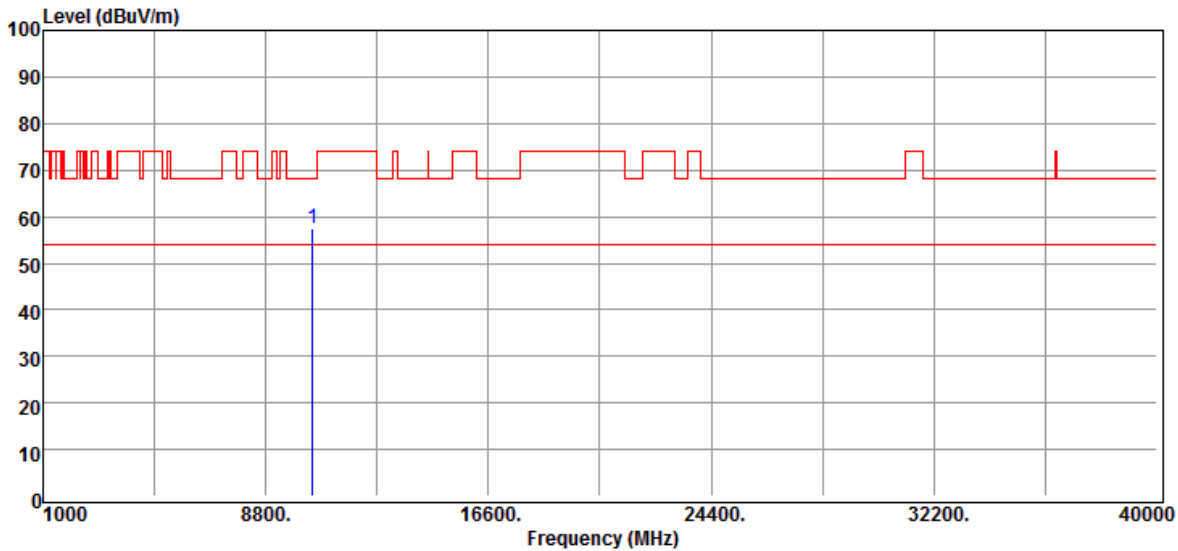
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	30.45	26.61	57.06	68.20	-11.14

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Operation Mode	:802.11a / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



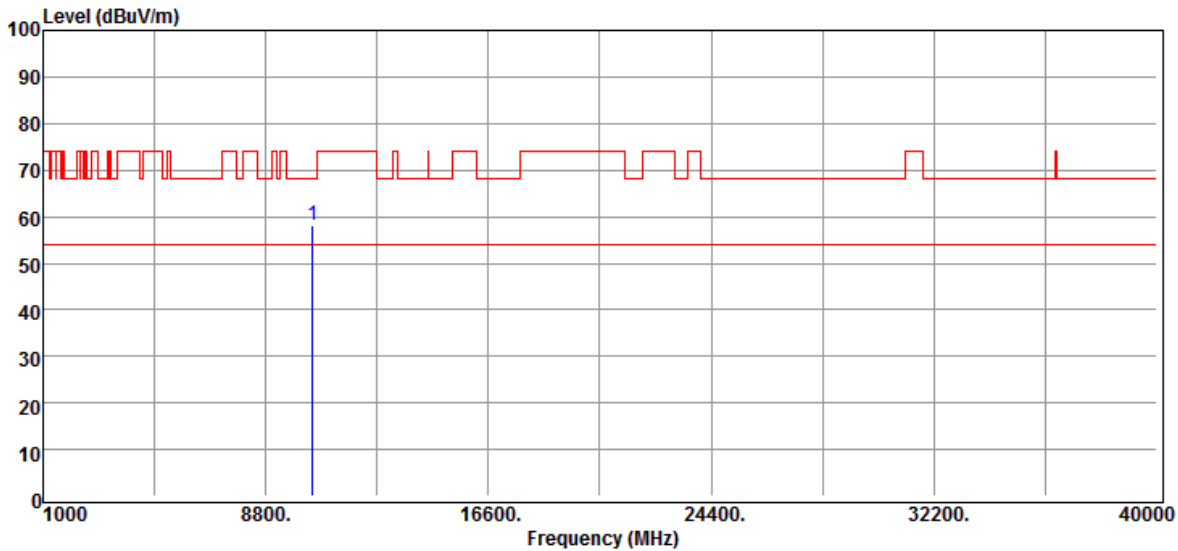
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	30.50	26.98	57.48	68.20	-10.72

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Operation Mode	:802.11a / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Enzo



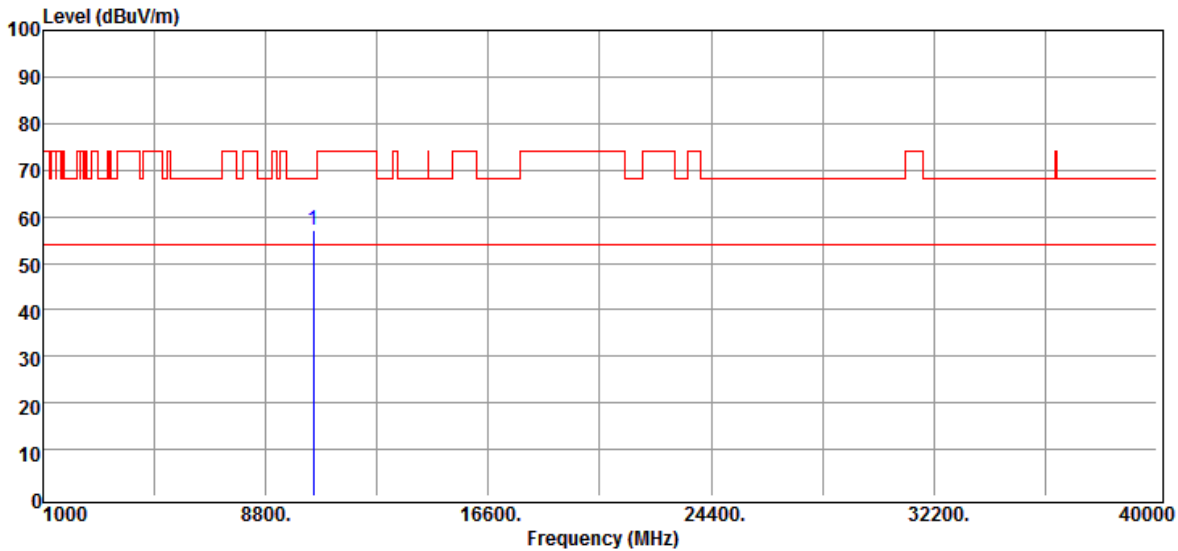
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	30.98	26.98	57.96	68.20	-10.24

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Operation Mode	:802.11a / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



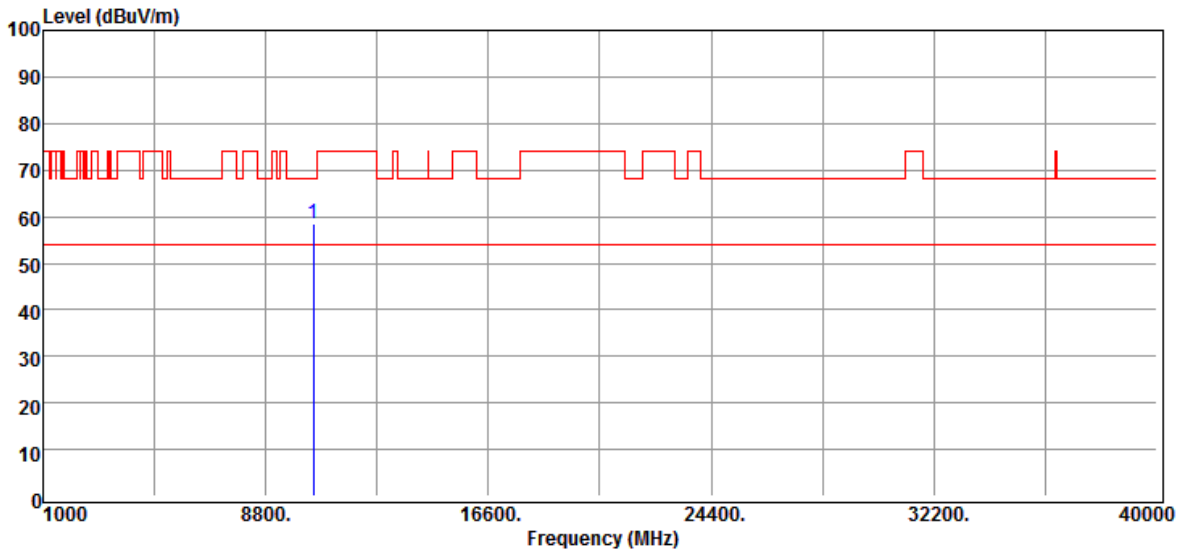
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	29.84	27.16	57.00	68.20	-11.20

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Operation Mode	:802.11a / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	31.43	27.16	58.59	68.20	-9.61

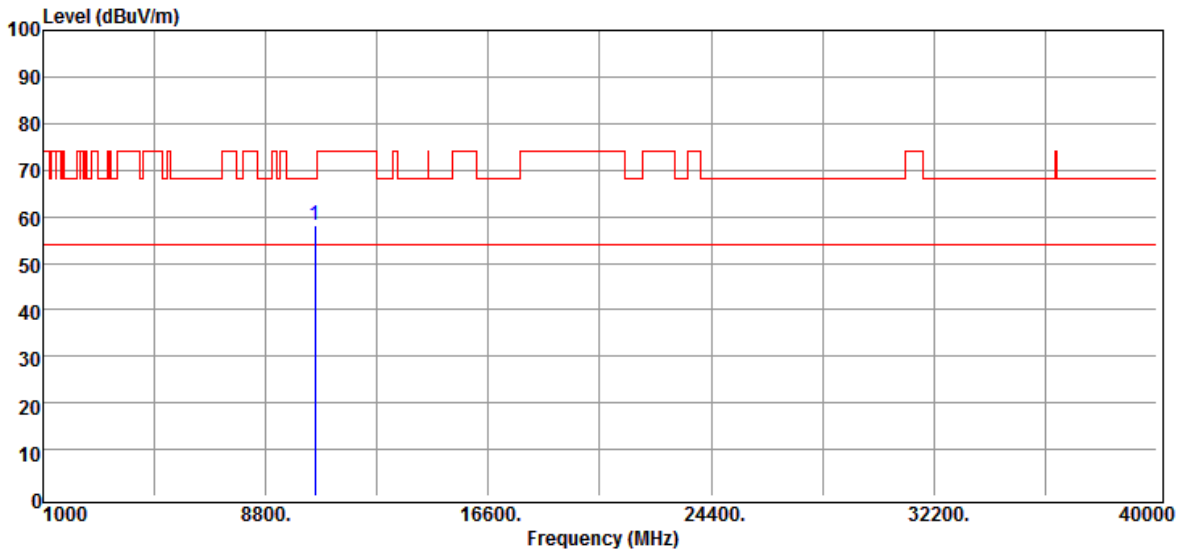
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
10520.00	Peak	30.78	27.23	58.01	68.20	-10.19

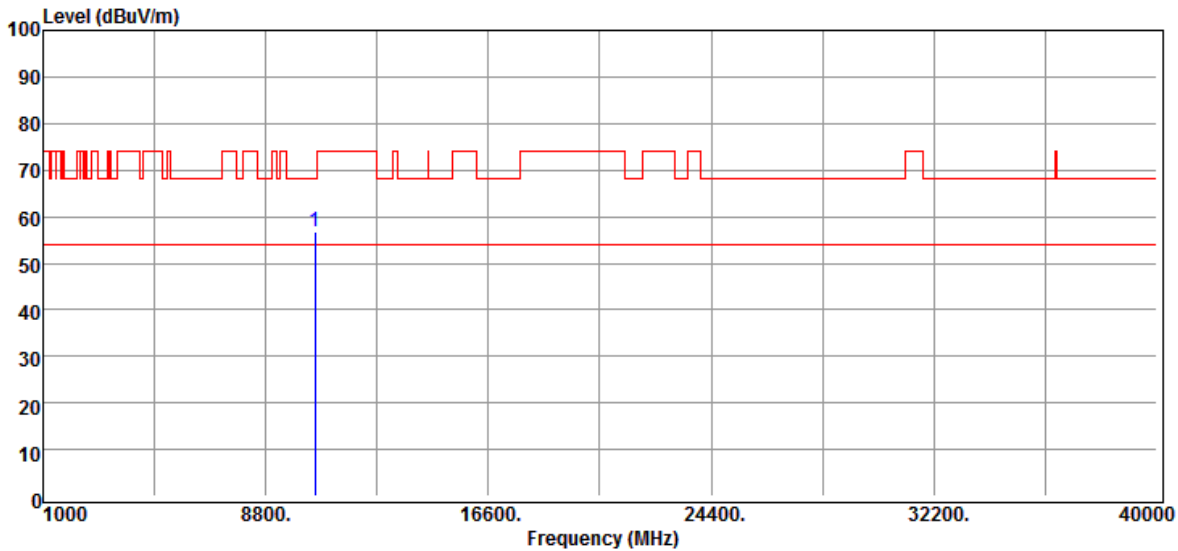
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Operation Mode :802.11a / Band 2
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Channel :5260 MHz

Test Date :2018-09-04
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



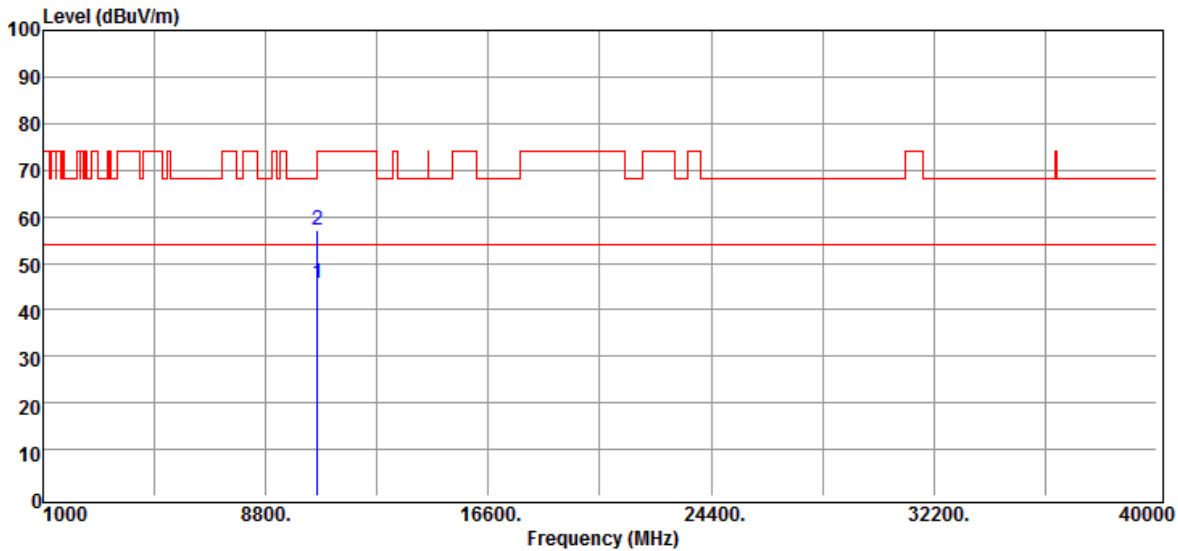
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	29.55	27.23	56.78	68.20	-11.42

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Operation Mode	:802.11a / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Enzo



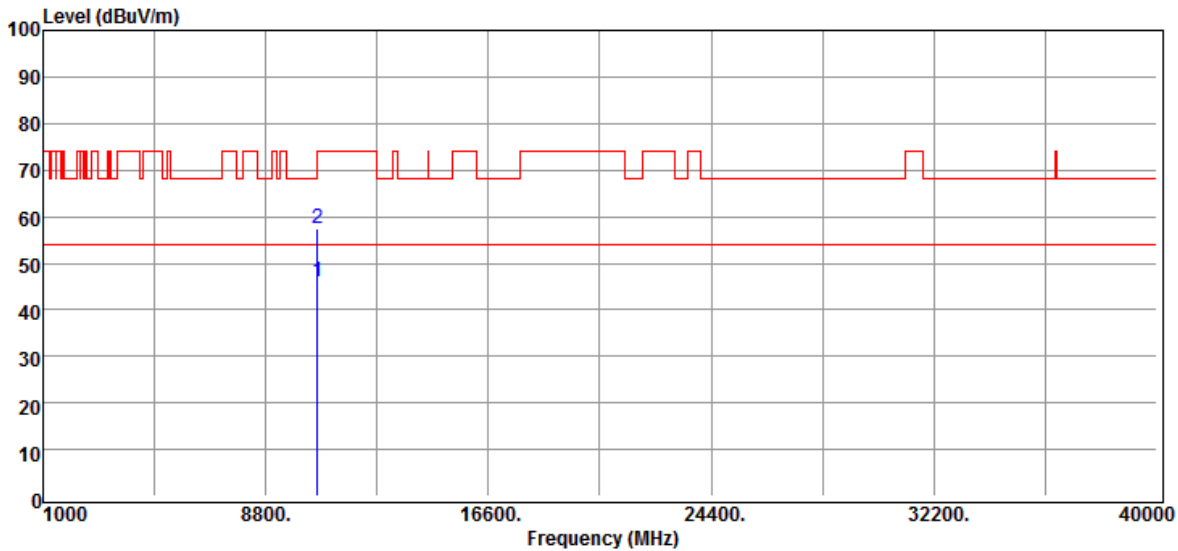
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	18.62	27.21	45.83	54.00	-8.17
10600.00	Peak	29.94	27.21	57.15	68.20	-11.05

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Operation Mode	:802.11a / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Enzo



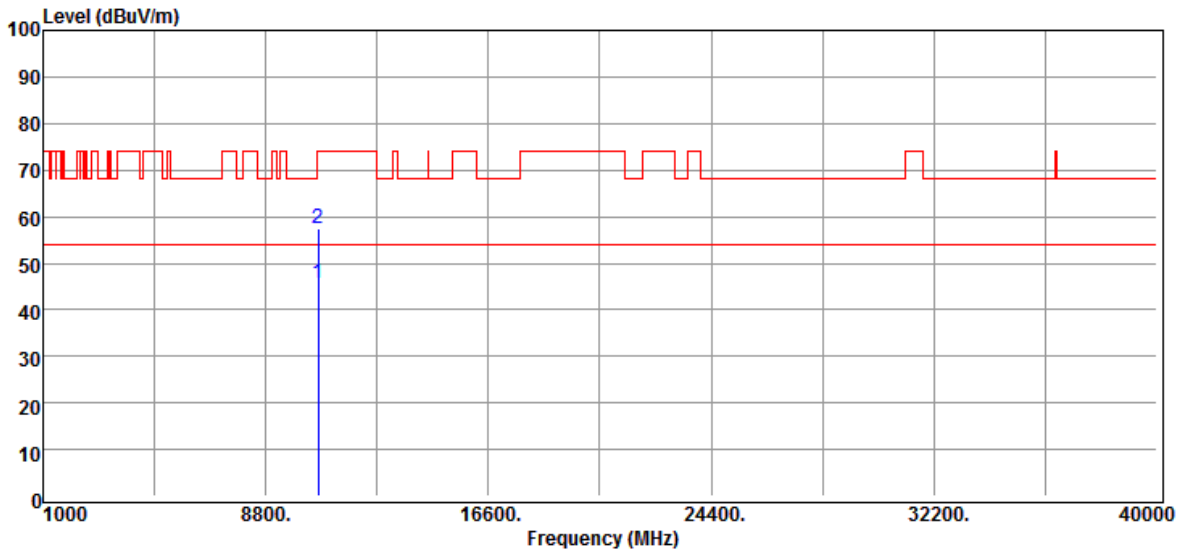
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	18.87	27.21	46.08	54.00	-7.92
10600.00	Peak	30.28	27.21	57.49	68.20	-10.71

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Operation Mode	:802.11a / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



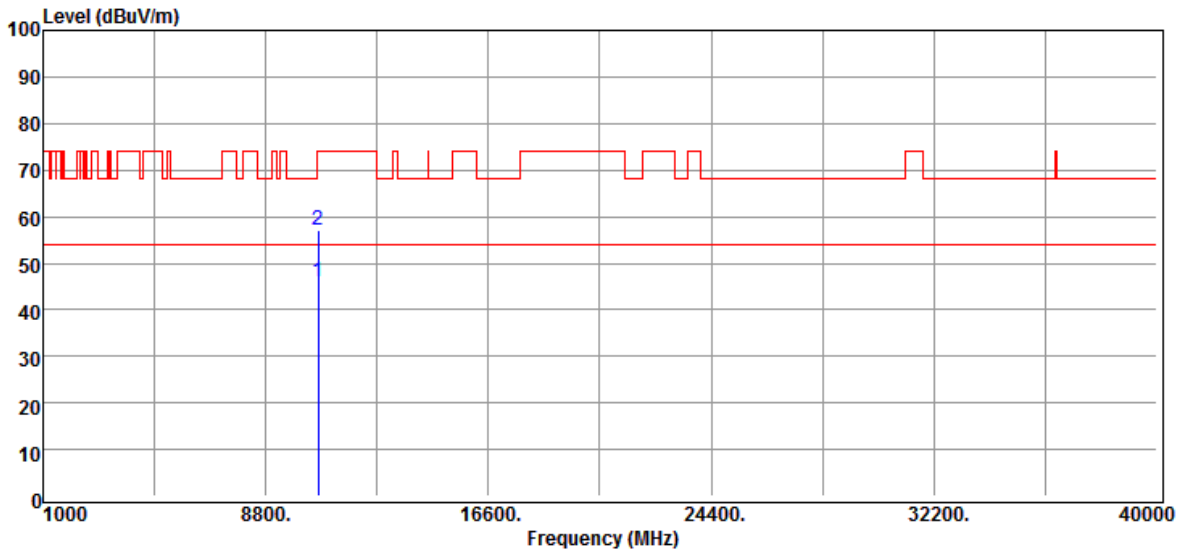
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	18.65	27.20	45.85	54.00	-8.15
10640.00	Peak	30.23	27.20	57.43	74.00	-16.57

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Operation Mode	:802.11a / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	18.81	27.20	46.01	54.00	-7.99
10640.00	Peak	29.74	27.20	56.94	74.00	-17.06

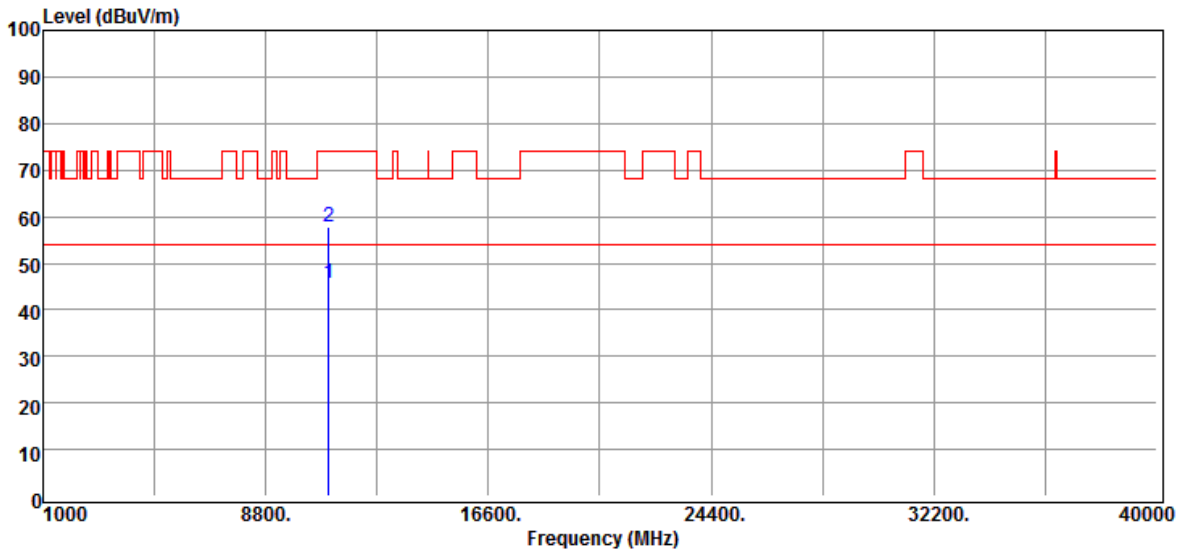
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	18.67	27.09	45.76	54.00	-8.24
11000.00	Peak	30.54	27.09	57.63	74.00	-16.37

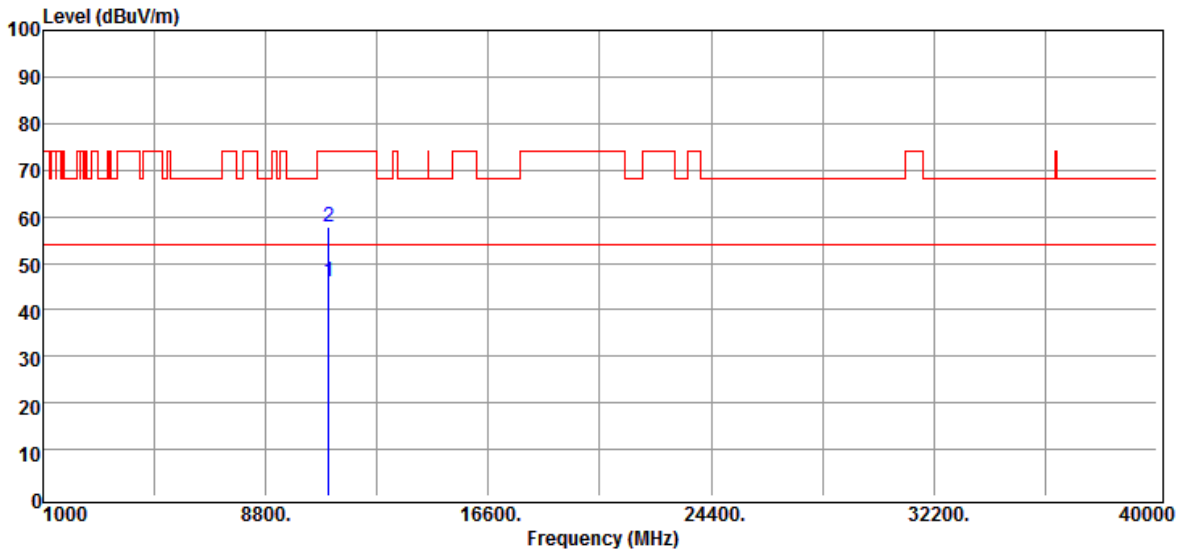
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Operation Mode :802.11a / Band 3
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Channel :5500 MHz

Test Date :2018-09-04
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



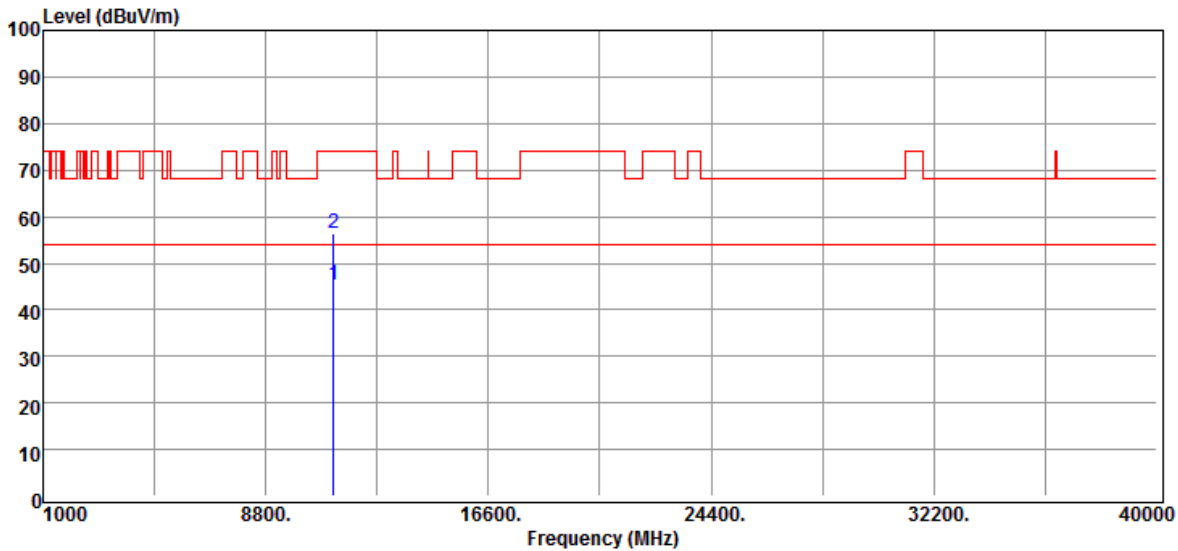
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	18.79	27.09	45.88	54.00	-8.12
11000.00	Peak	30.57	27.09	57.66	74.00	-16.34

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Operation Mode	:802.11a / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Enzo



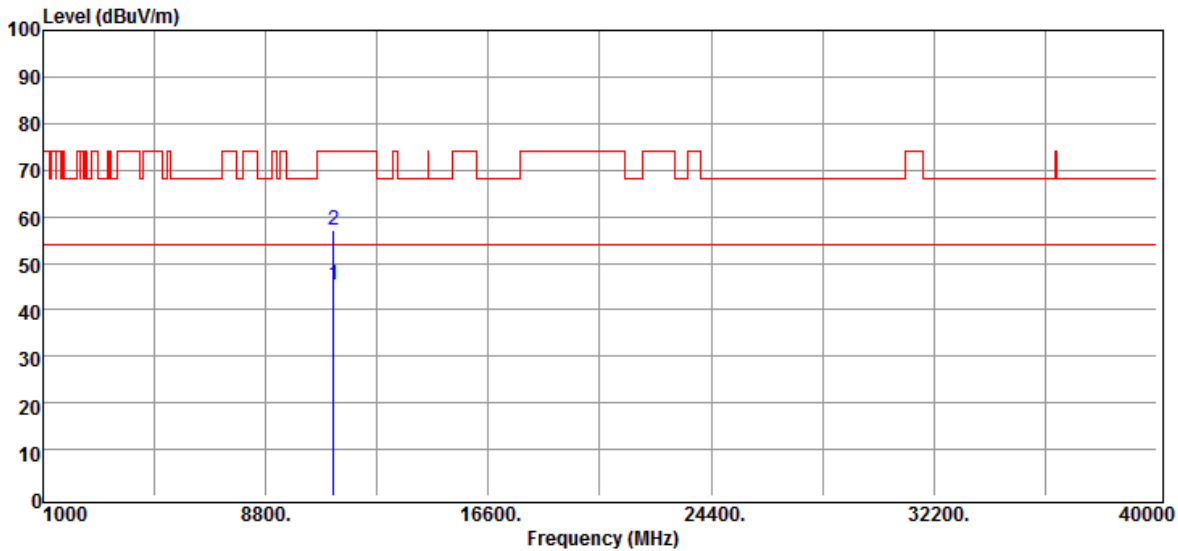
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	18.63	26.67	45.30	54.00	-8.70
11160.00	Peak	29.57	26.67	56.24	74.00	-17.76

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Operation Mode	:802.11a / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Enzo



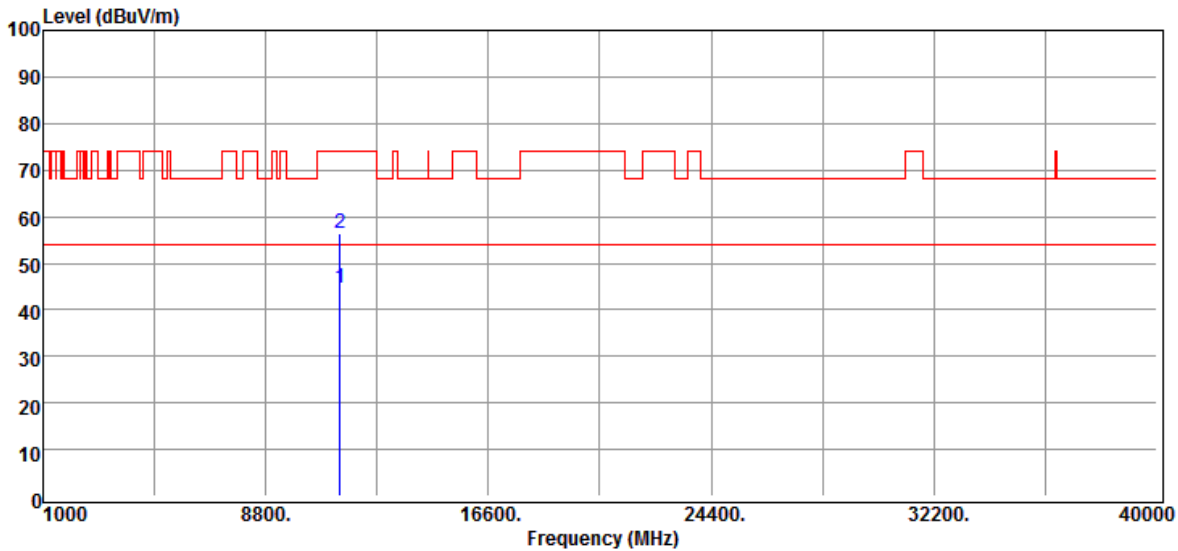
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	18.77	26.67	45.44	54.00	-8.56
11160.00	Peak	30.26	26.67	56.93	74.00	-17.07

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Operation Mode	:802.11a / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	18.65	26.07	44.72	54.00	-9.28
11400.00	Peak	30.45	26.07	56.52	74.00	-17.48

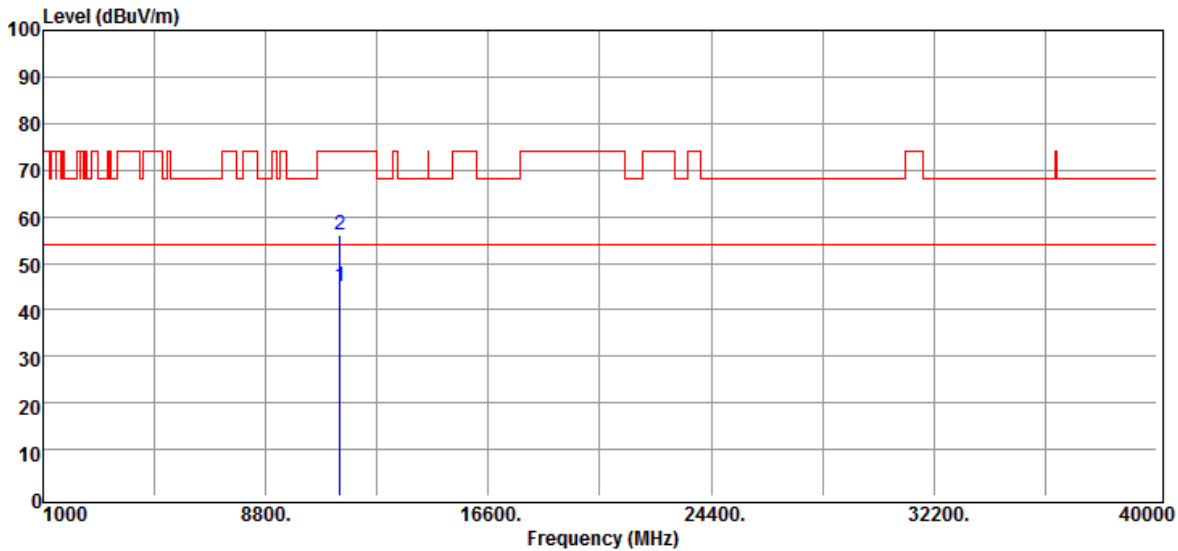
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Operation Mode :802.11a / Band 3
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan
 Test Channel :5700 MHz

Test Date :2018-09-04
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	18.81	26.07	44.88	54.00	-9.12
11400.00	Peak	29.98	26.07	56.05	74.00	-17.95

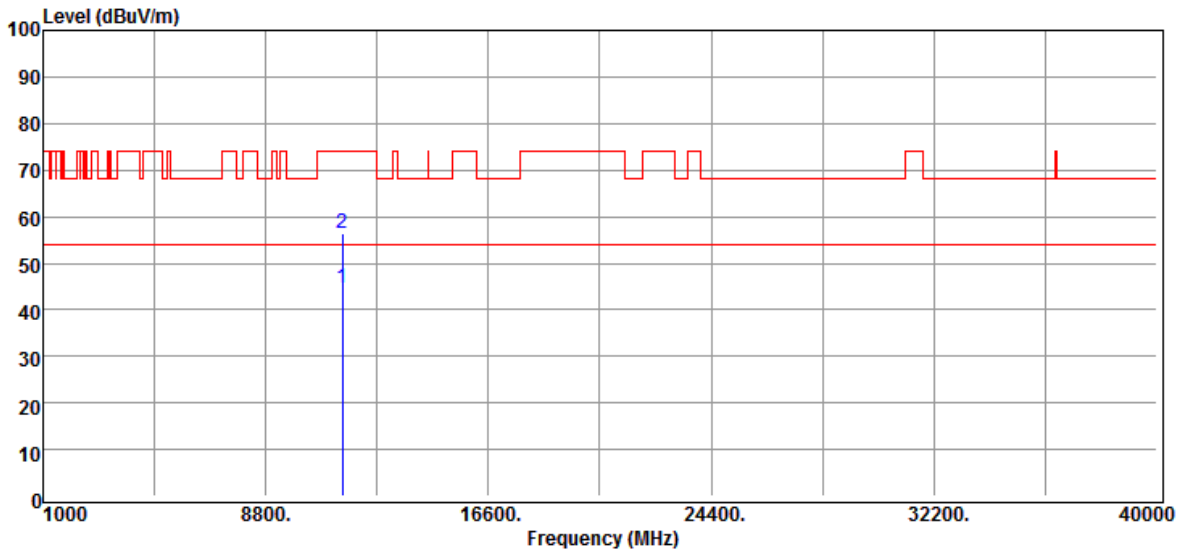
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
11490.00	Average	18.65	25.83	44.48	54.00	-9.52
11490.00	Peak	30.66	25.83	56.49	74.00	-17.51

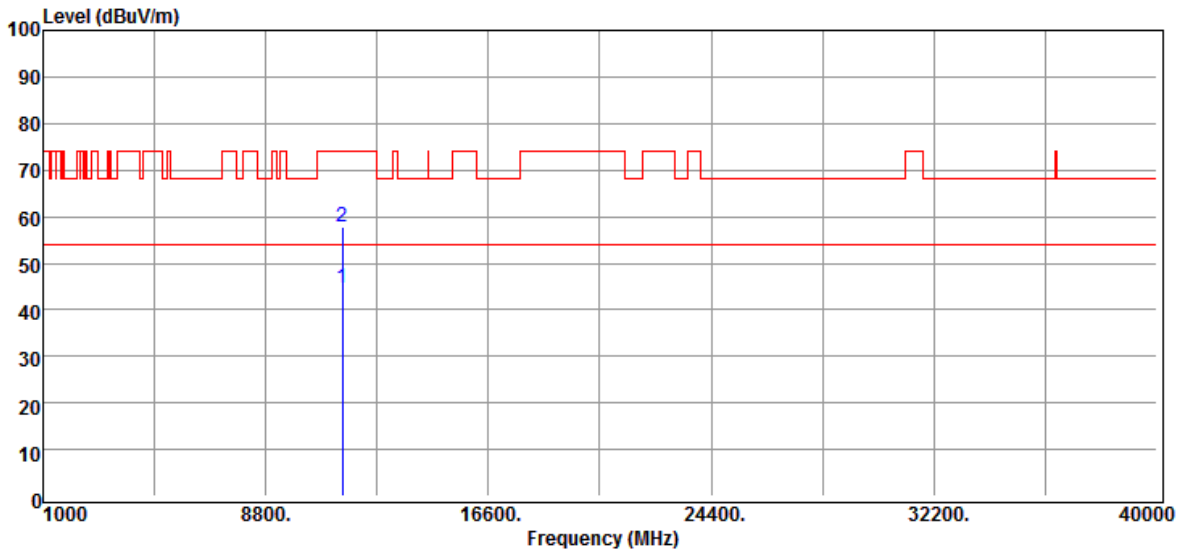
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode :802.11a / Band 4
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Channel :5745 MHz

Test Date :2018-09-04
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



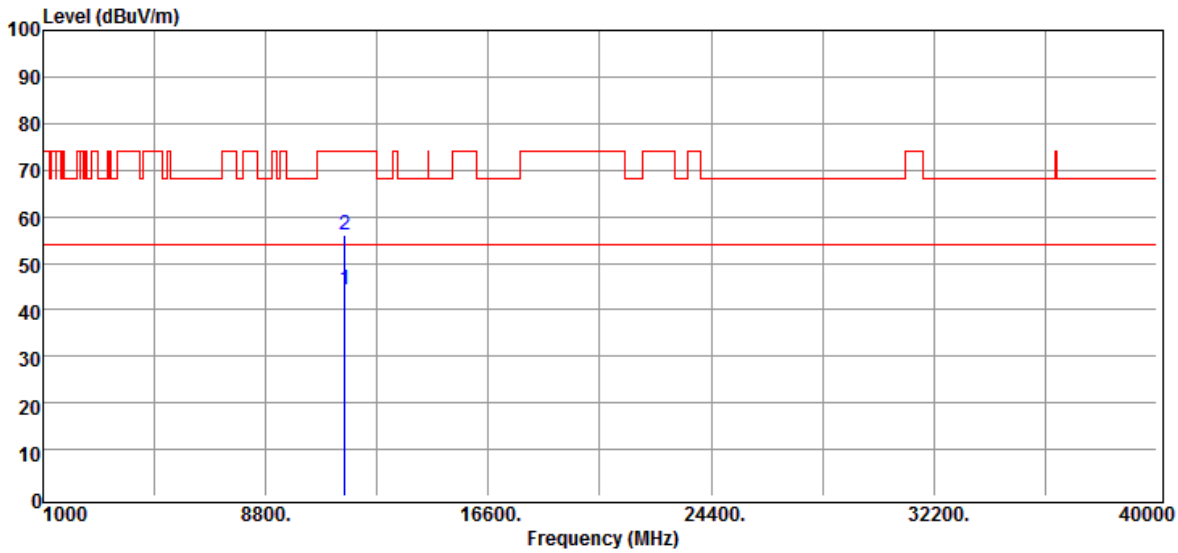
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	18.87	25.83	44.70	54.00	-9.30
11490.00	Peak	31.96	25.83	57.79	74.00	-16.21

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Operation Mode	:802.11a / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Enzo



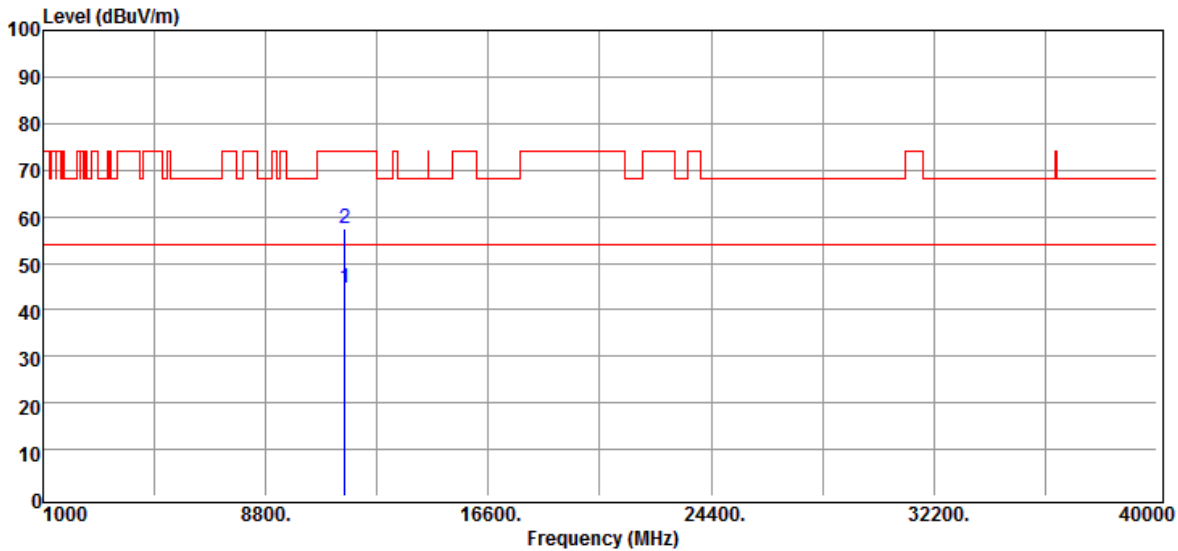
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	18.59	25.87	44.46	54.00	-9.54
11570.00	Peak	30.08	25.87	55.95	74.00	-18.05

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Operation Mode	:802.11a / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Enzo



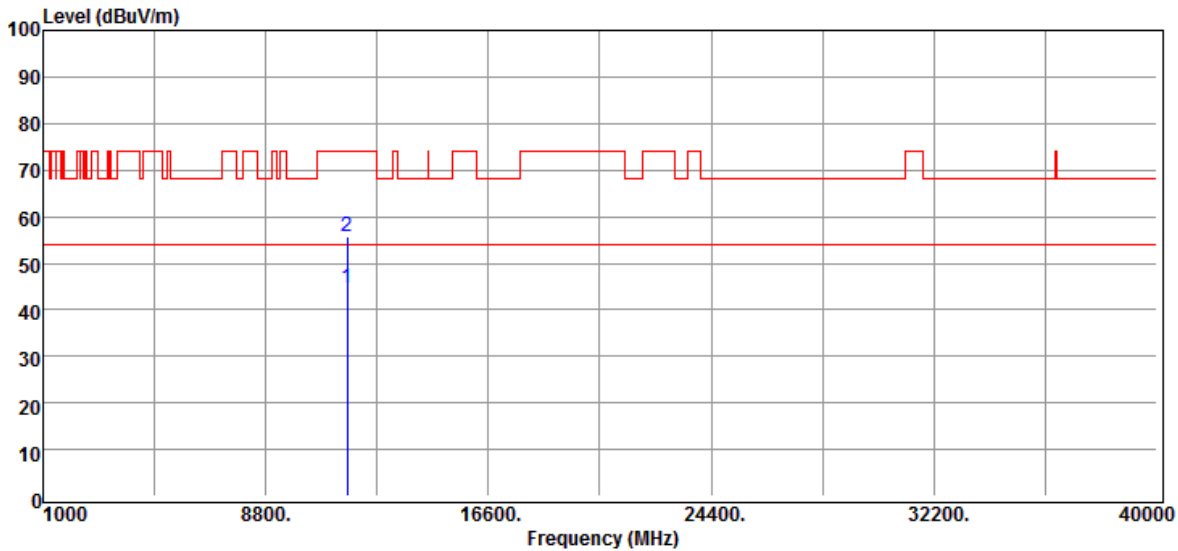
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	18.82	25.87	44.69	54.00	-9.31
11570.00	Peak	31.50	25.87	57.37	74.00	-16.63

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Operation Mode	:802.11a / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



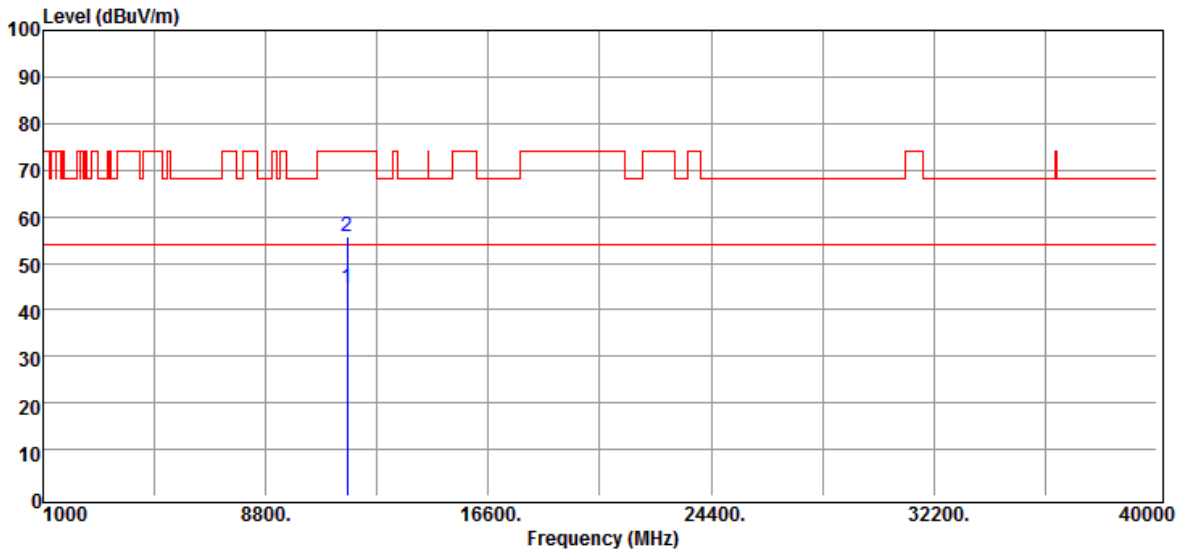
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	18.67	25.94	44.61	54.00	-9.39
11650.00	Peak	29.80	25.94	55.74	74.00	-18.26

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Operation Mode	:802.11a / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	18.86	25.94	44.80	54.00	-9.20
11650.00	Peak	29.81	25.94	55.75	74.00	-18.25

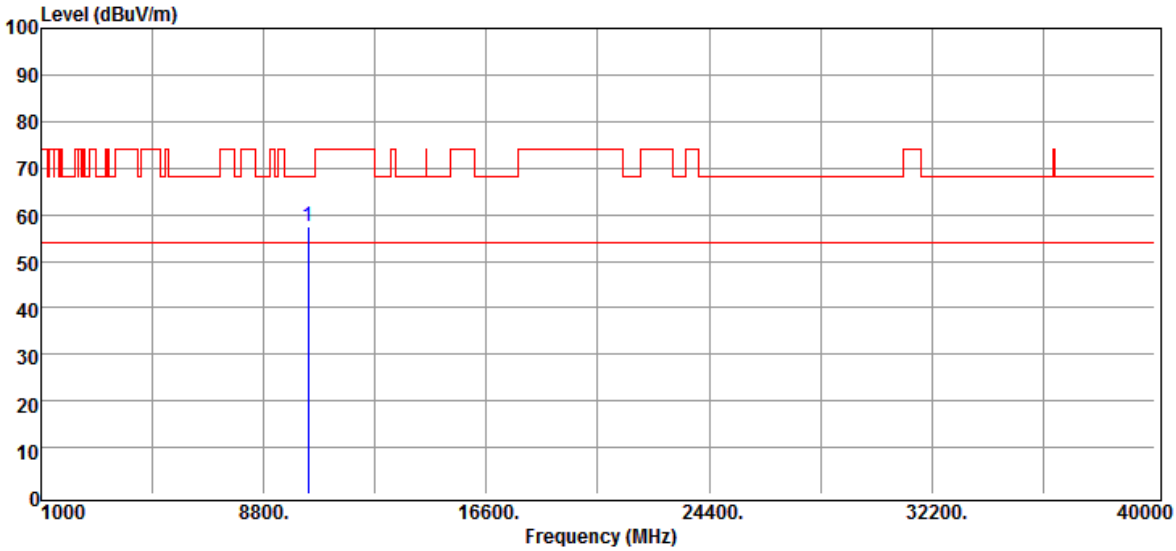
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



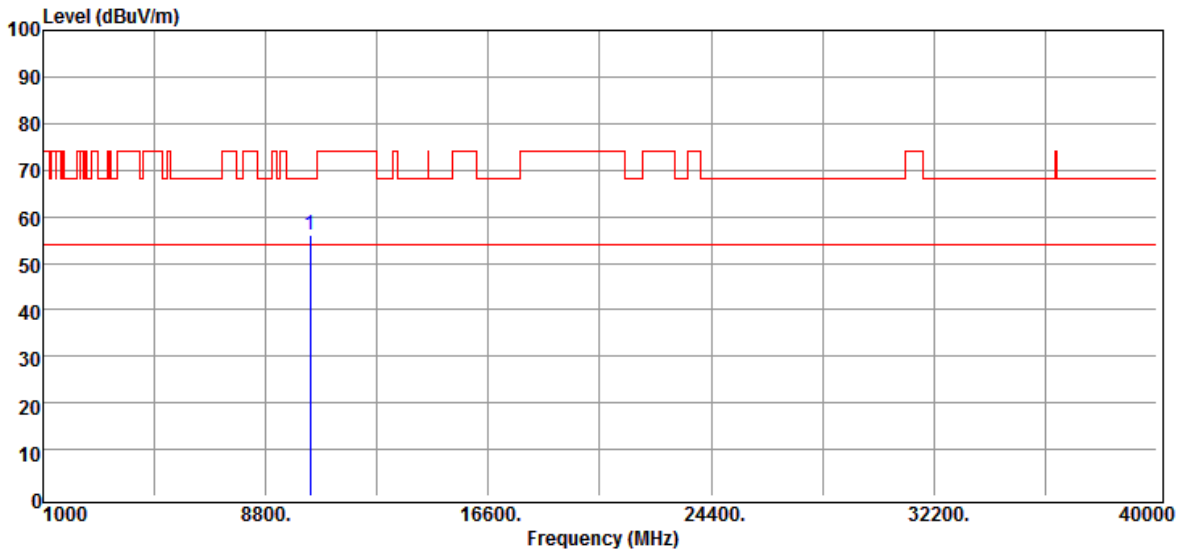
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	30.99	26.61	57.60	68.20	-10.60

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



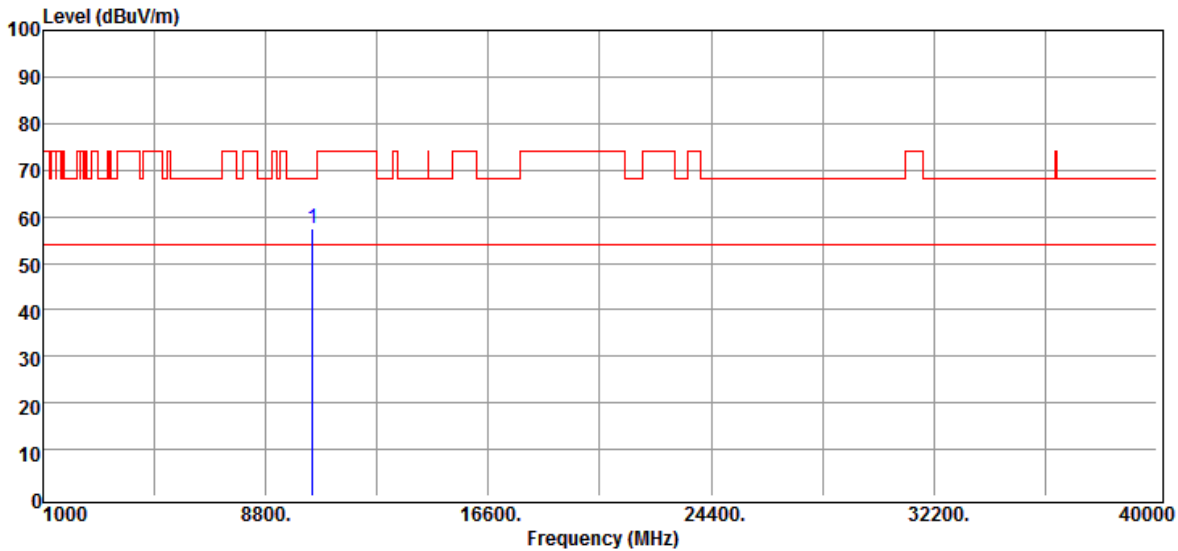
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	29.51	26.61	56.12	68.20	-12.08

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



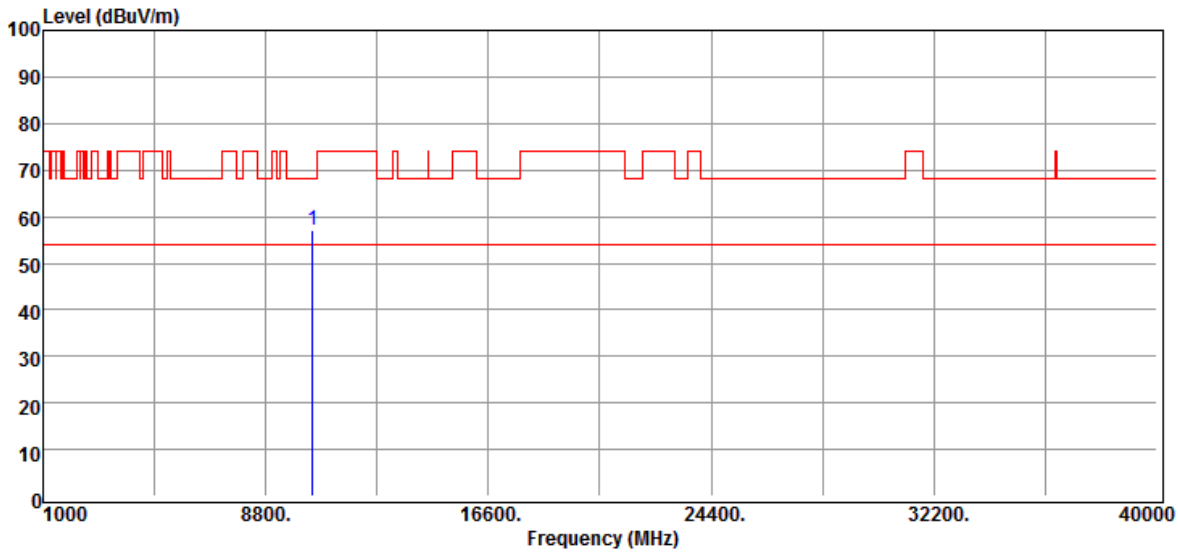
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	30.32	26.98	57.30	68.20	-10.90

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Enzo



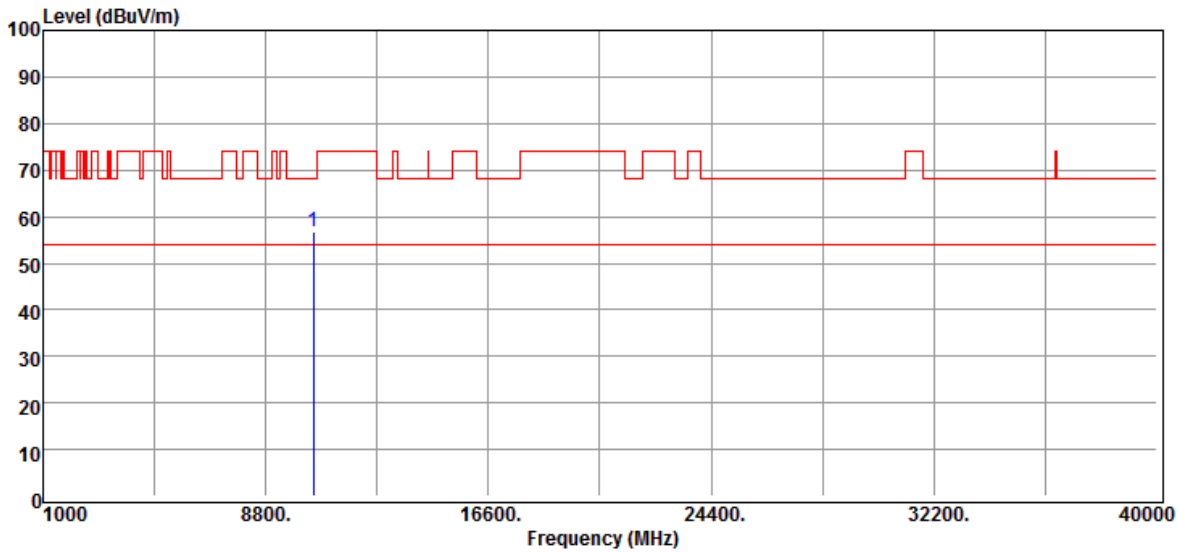
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	30.09	26.98	57.07	68.20	-11.13

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



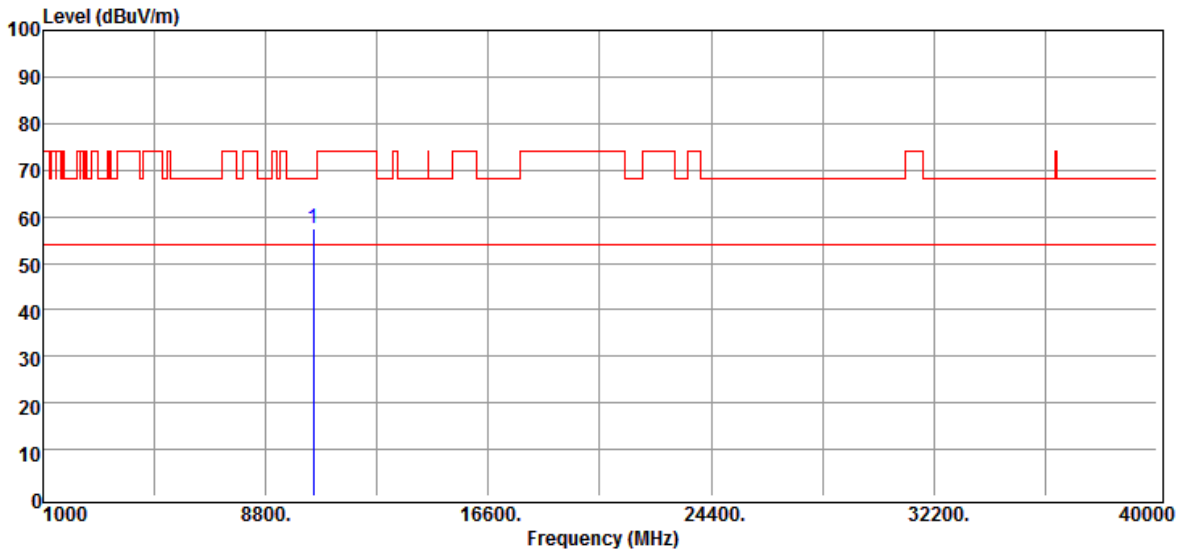
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	29.49	27.16	56.65	68.20	-11.55

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Enzo



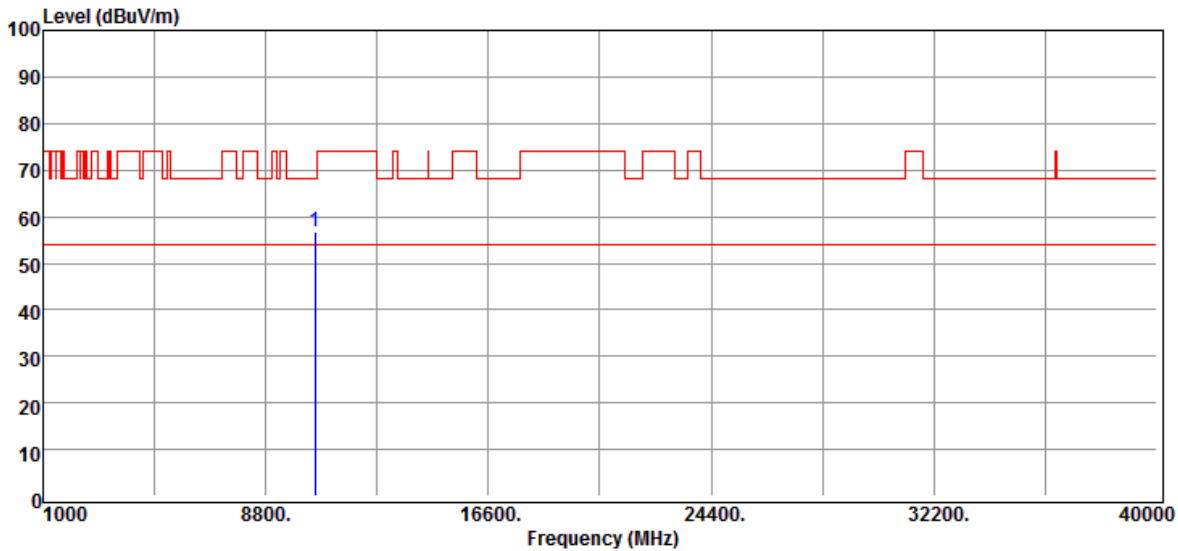
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	30.42	27.16	57.58	68.20	-10.62

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



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	29.58	27.23	56.81	68.20	-11.39

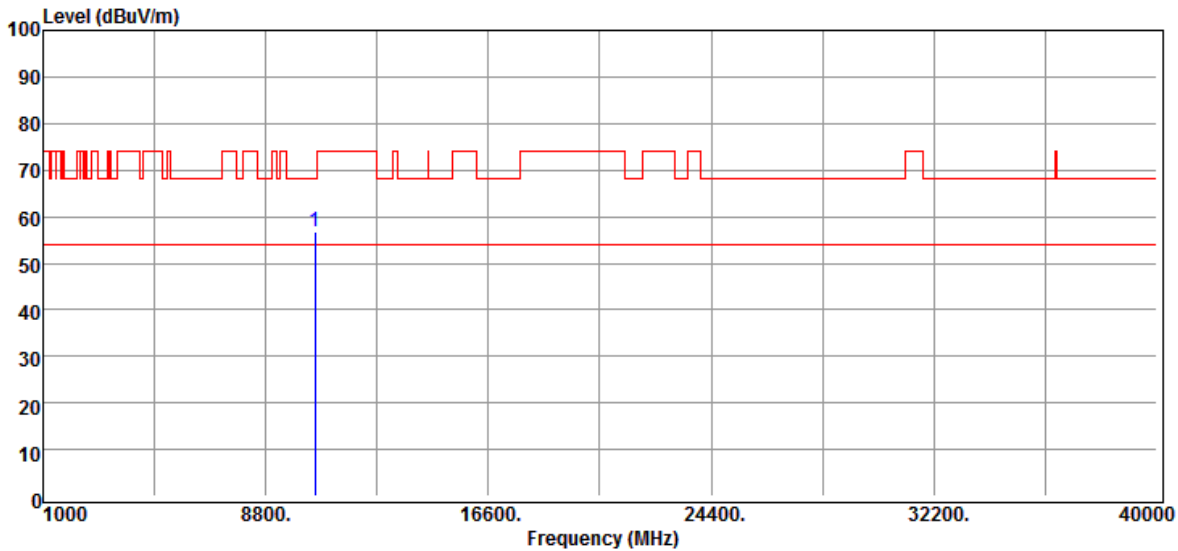
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode	:802.11n20 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Enzo



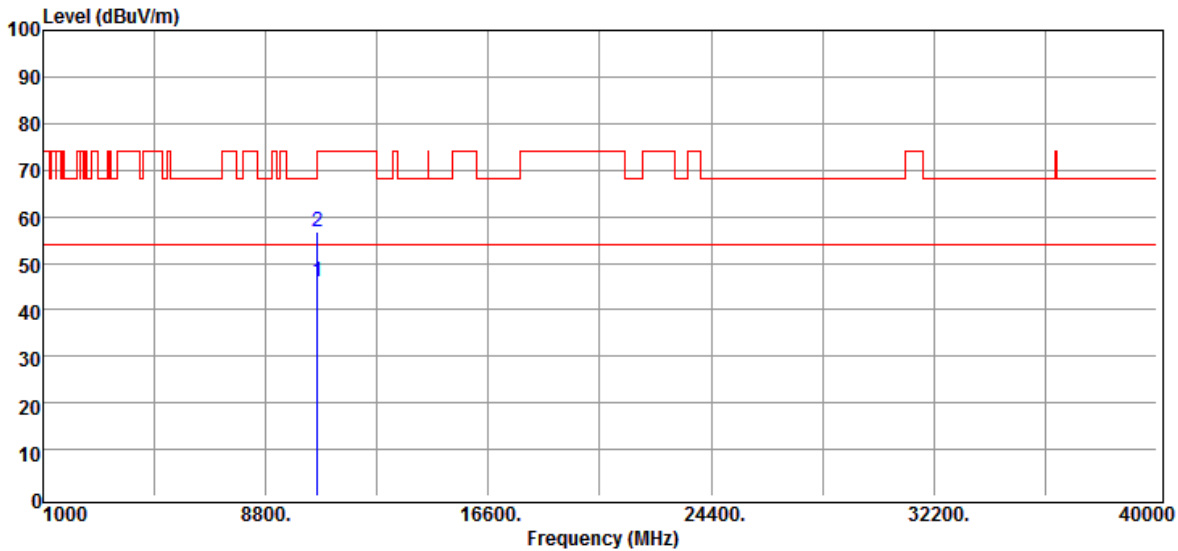
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
10520.00	Peak	29.40	27.23	56.63	68.20	-11.57

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Enzo



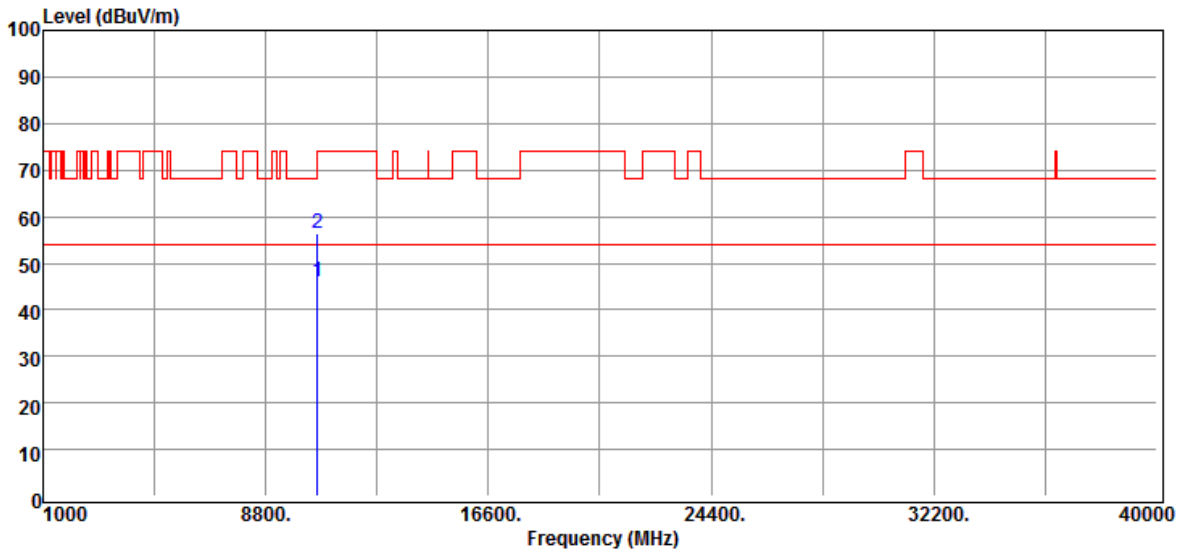
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	18.67	27.21	45.88	54.00	-8.12
10600.00	Peak	29.46	27.21	56.67	68.20	-11.53

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Enzo



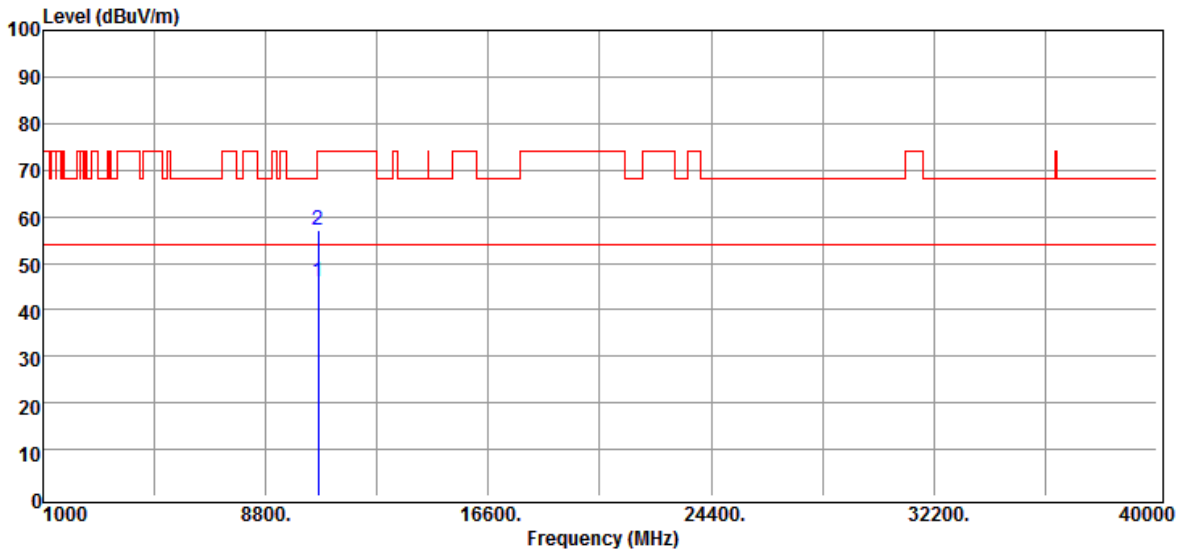
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	18.72	27.21	45.93	54.00	-8.07
10600.00	Peak	29.02	27.21	56.23	68.20	-11.97

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



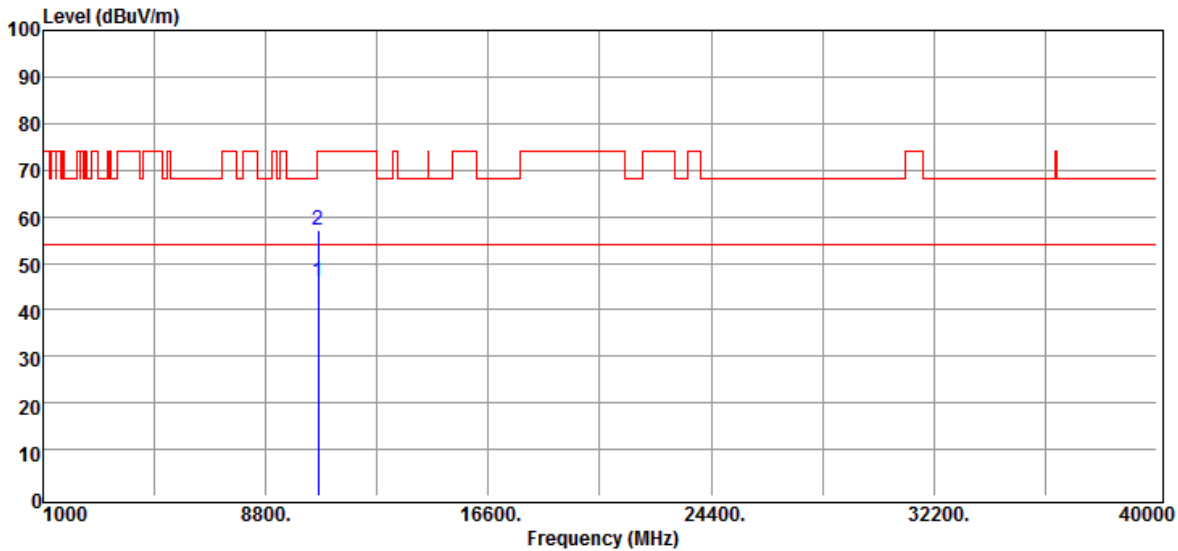
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	18.69	27.20	45.89	54.00	-8.11
10640.00	Peak	29.74	27.20	56.94	74.00	-17.06

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	18.75	27.20	45.95	54.00	-8.05
10640.00	Peak	30.00	27.20	57.20	74.00	-16.80

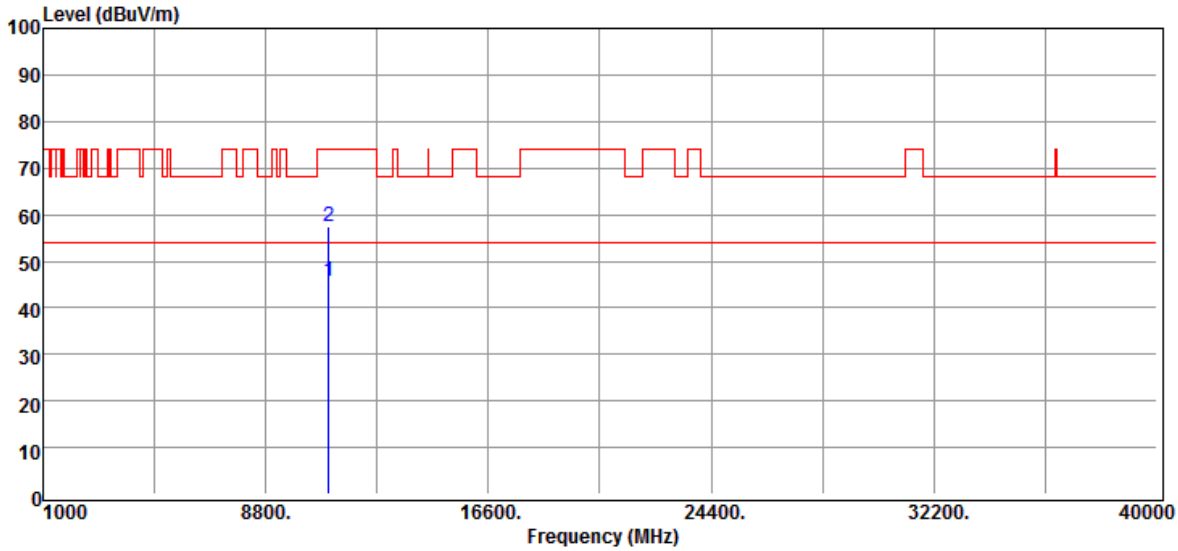
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



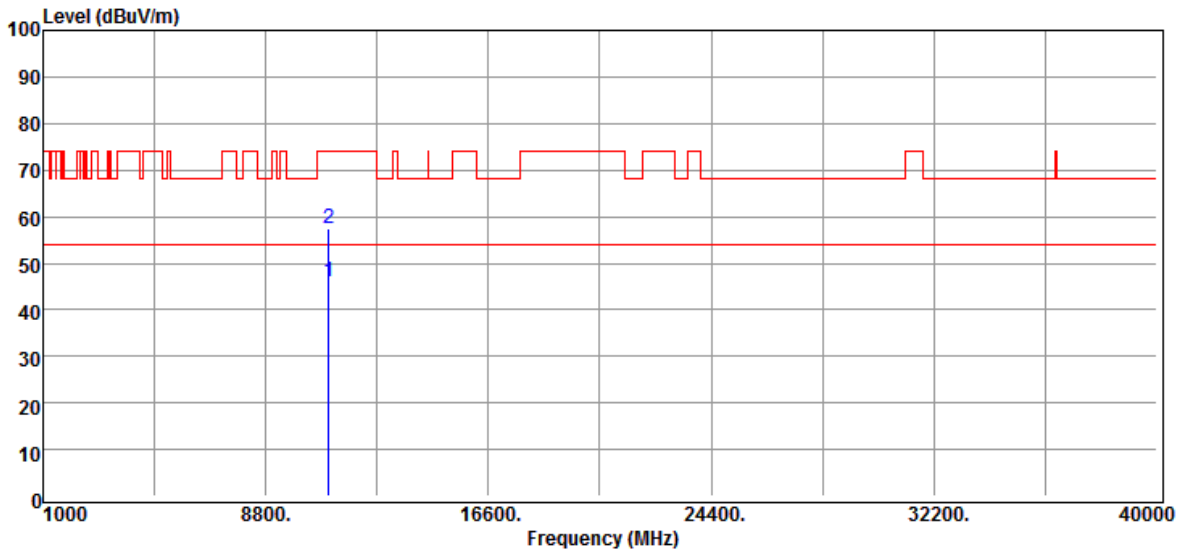
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	18.67	27.09	45.76	54.00	-8.24
11000.00	Peak	30.41	27.09	57.50	74.00	-16.50

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



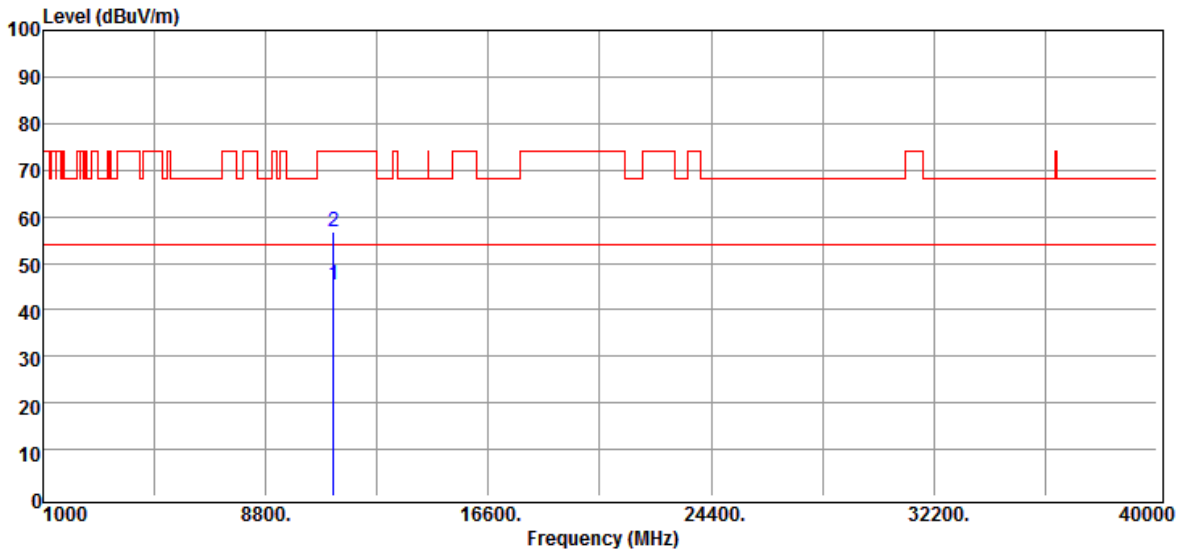
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	18.81	27.09	45.90	54.00	-8.10
11000.00	Peak	30.43	27.09	57.52	74.00	-16.48

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Enzo



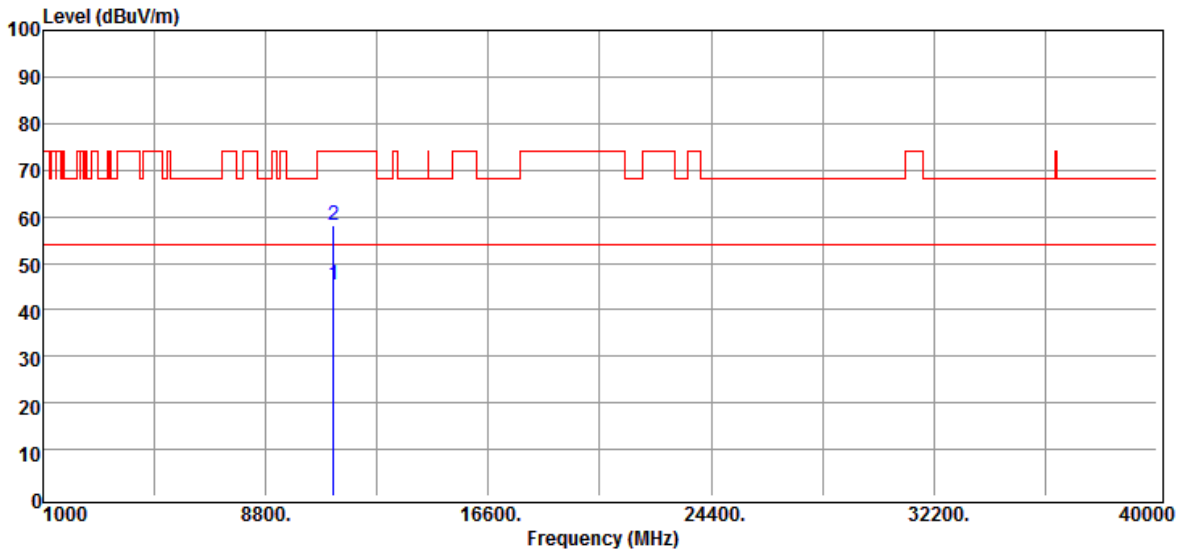
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	18.65	26.67	45.32	54.00	-8.68
11160.00	Peak	30.02	26.67	56.69	74.00	-17.31

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Enzo



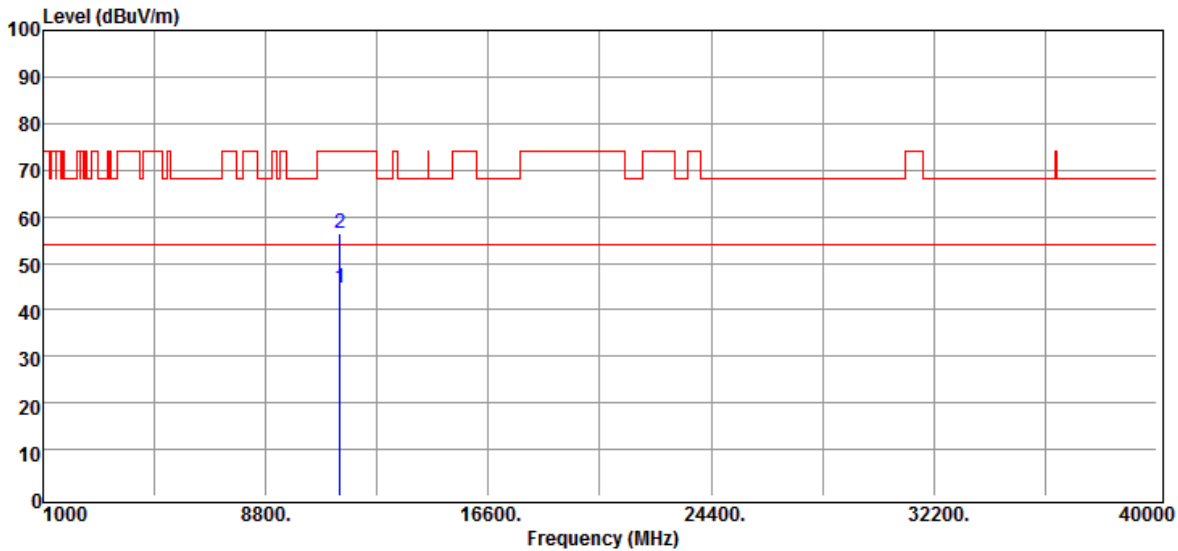
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	18.82	26.67	45.49	54.00	-8.51
11160.00	Peak	31.34	26.67	58.01	74.00	-15.99

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



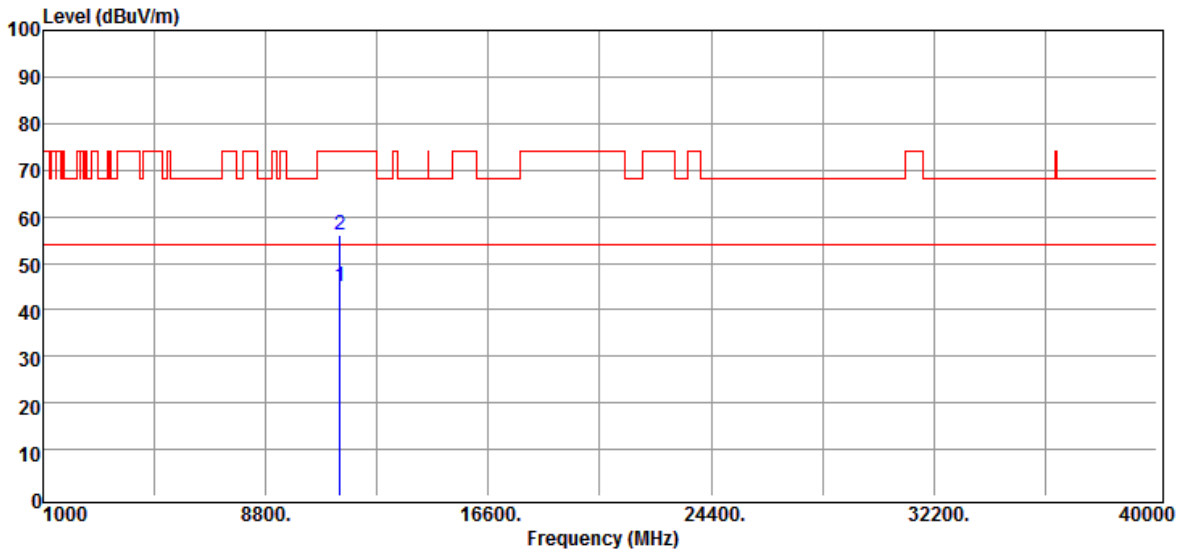
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	18.60	26.07	44.67	54.00	-9.33
11400.00	Peak	30.18	26.07	56.25	74.00	-17.75

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



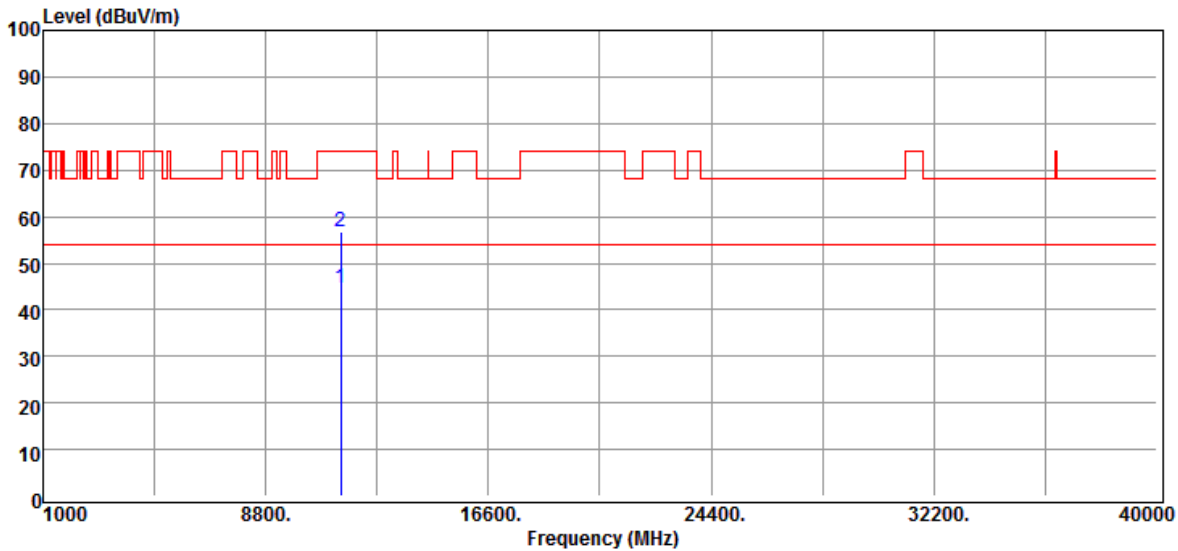
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	18.85	26.07	44.92	54.00	-9.08
11400.00	Peak	29.92	26.07	55.99	74.00	-18.01

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Operation Mode	:802.11n20 / Band 3-4	Test Date	:2018-09-04
Test Mode	:TX CH 144	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Enzo



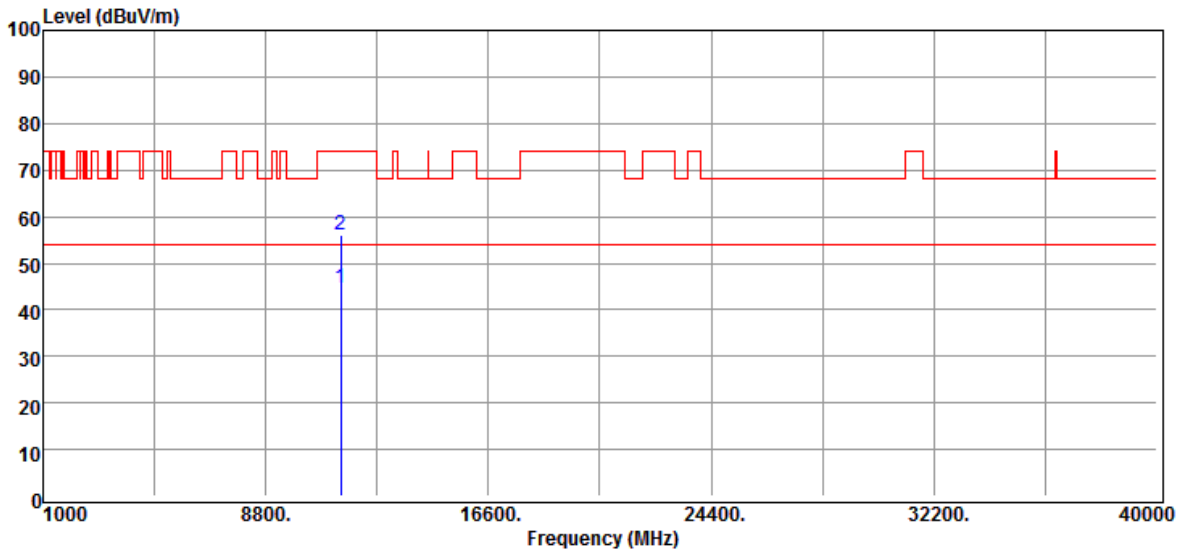
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	18.66	25.96	44.62	54.00	-9.38
11440.00	Peak	30.64	25.96	56.60	74.00	-17.40

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Operation Mode	:802.11n20 / Band 3-4	Test Date	:2018-09-04
Test Mode	:TX CH 144	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Enzo



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	18.76	25.96	44.72	54.00	-9.28
11440.00	Peak	29.96	25.96	55.92	74.00	-18.08

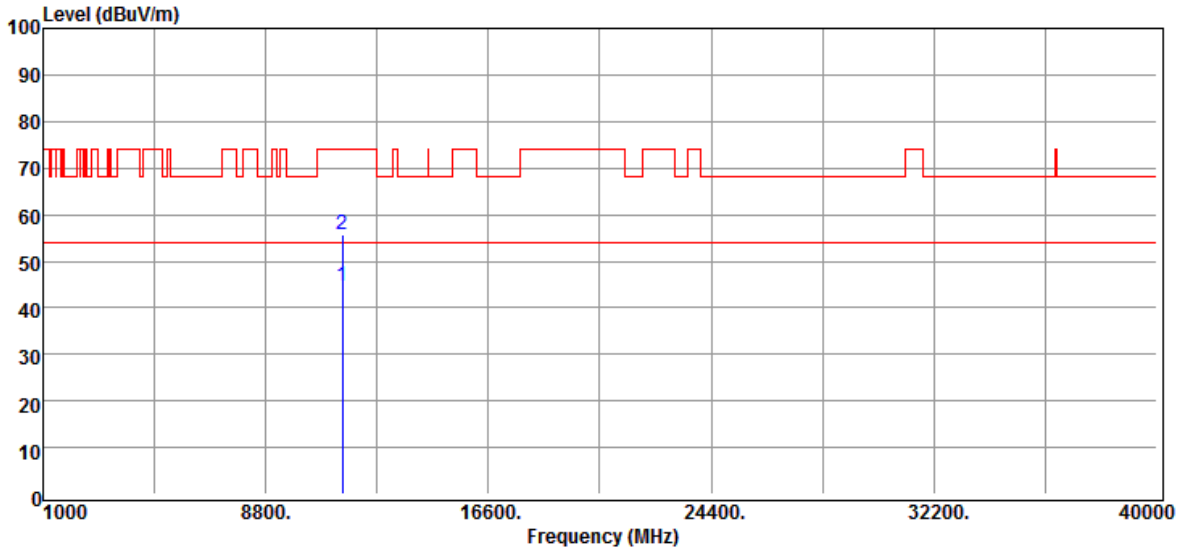
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode	:802.11n20 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



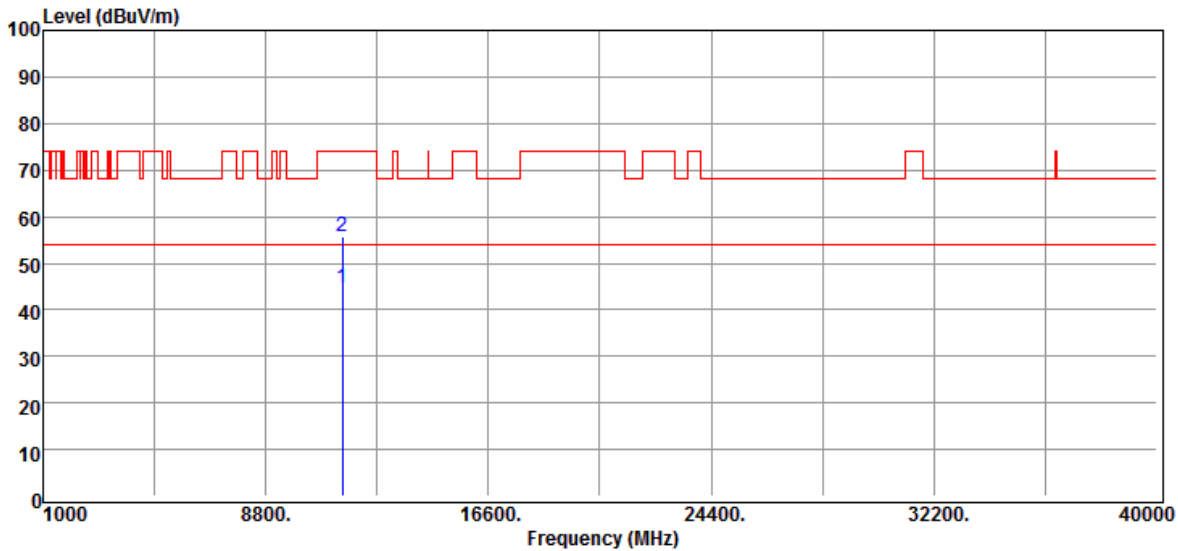
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
11490.00	Average	18.64	25.83	44.47	54.00	-9.53
11490.00	Peak	29.82	25.83	55.65	74.00	-18.35

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



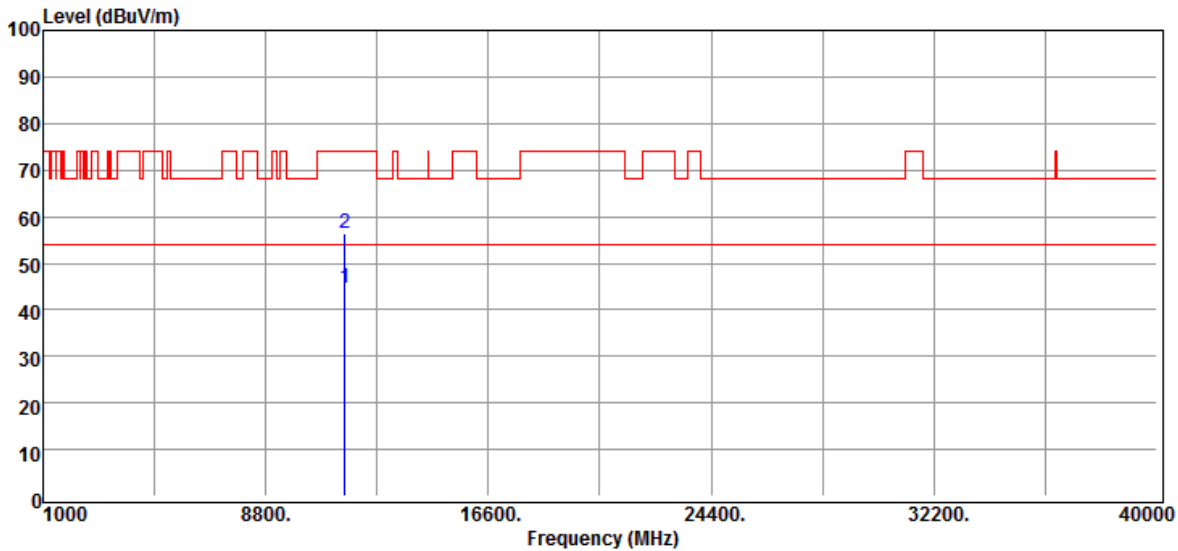
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	18.76	25.83	44.59	54.00	-9.41
11490.00	Peak	30.01	25.83	55.84	74.00	-18.16

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Enzo



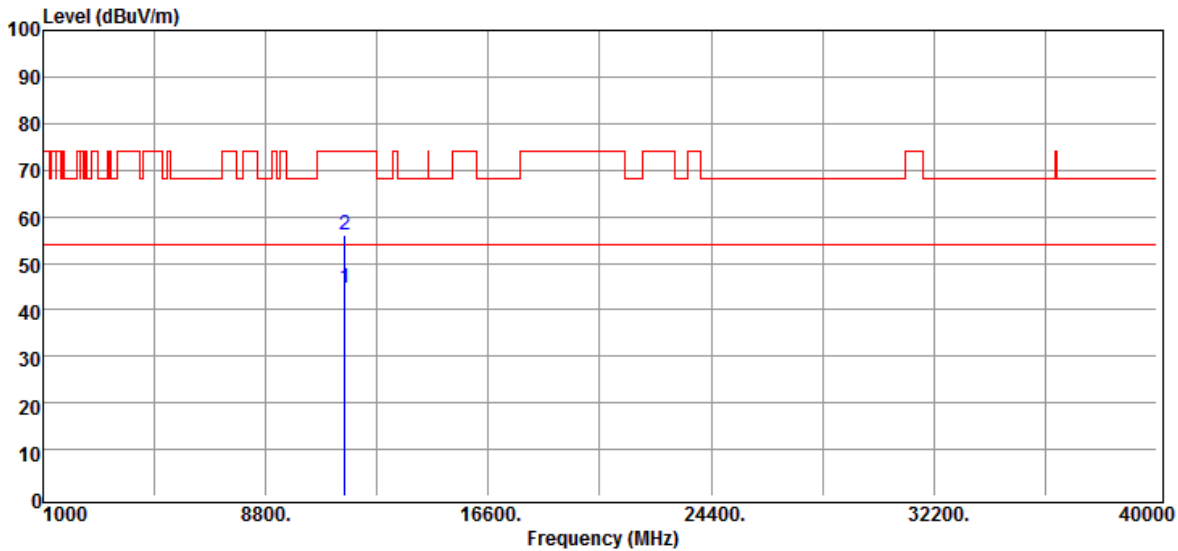
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	18.64	25.87	44.51	54.00	-9.49
11570.00	Peak	30.64	25.87	56.51	74.00	-17.49

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Enzo



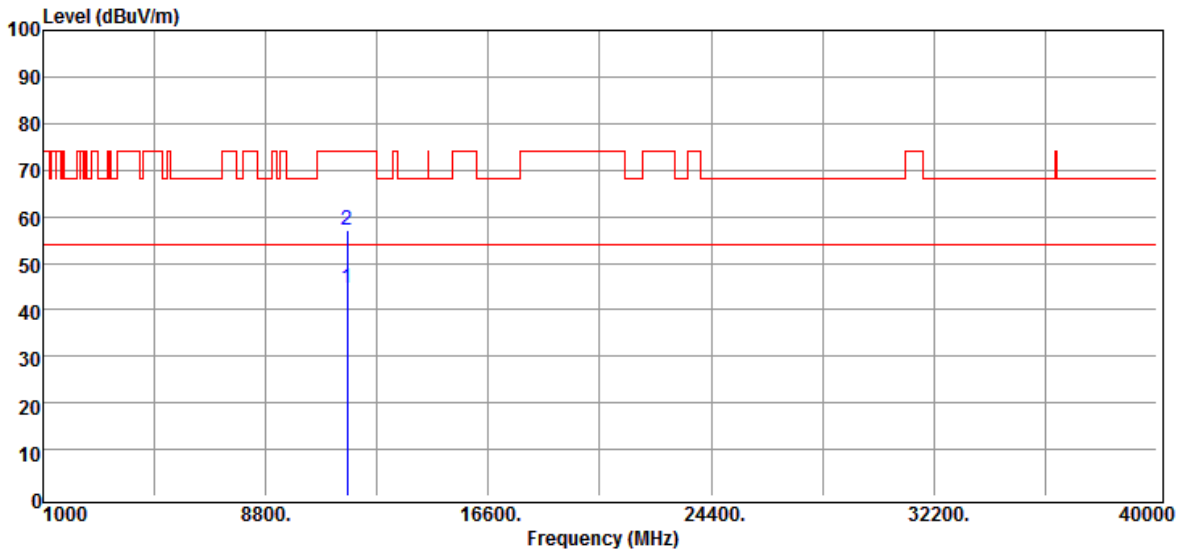
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	18.76	25.87	44.63	54.00	-9.37
11570.00	Peak	30.10	25.87	55.97	74.00	-18.03

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



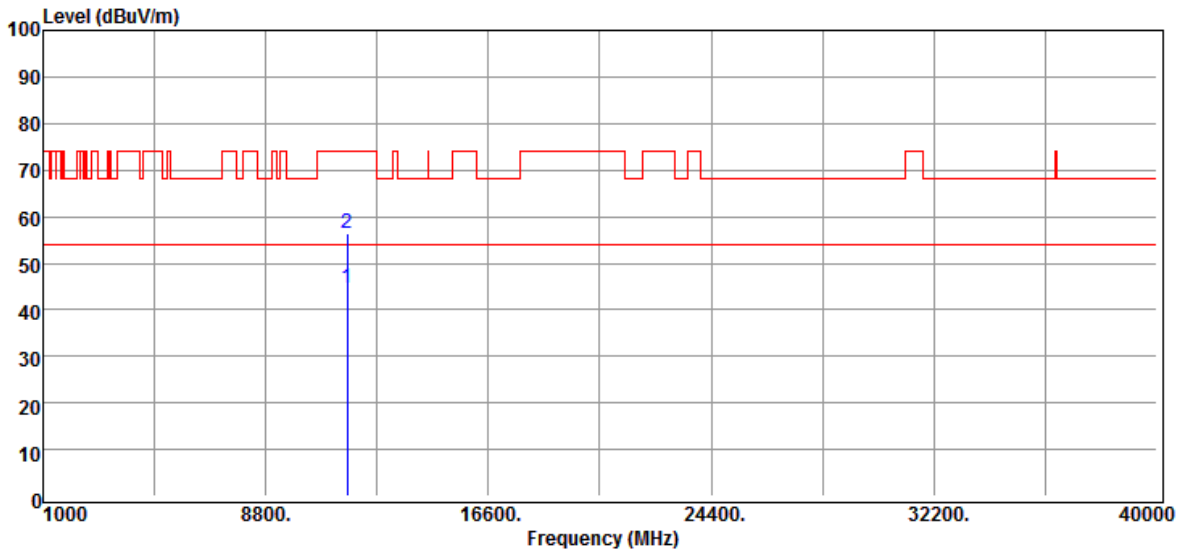
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	18.68	25.94	44.62	54.00	-9.38
11650.00	Peak	30.99	25.94	56.93	74.00	-17.07

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	18.78	25.94	44.72	54.00	-9.28
11650.00	Peak	30.62	25.94	56.56	74.00	-17.44

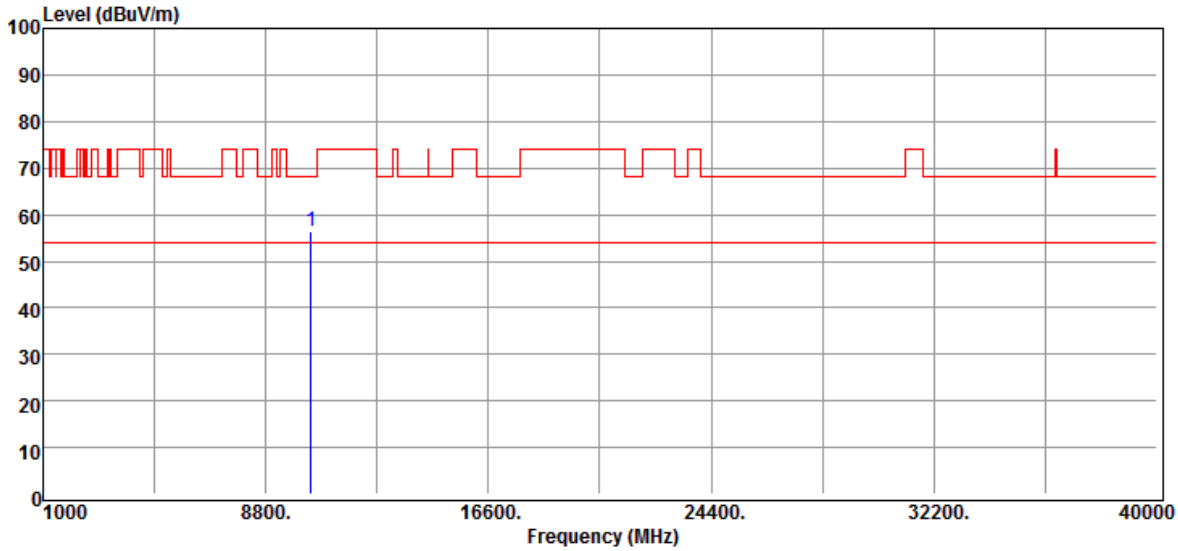
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Enzo



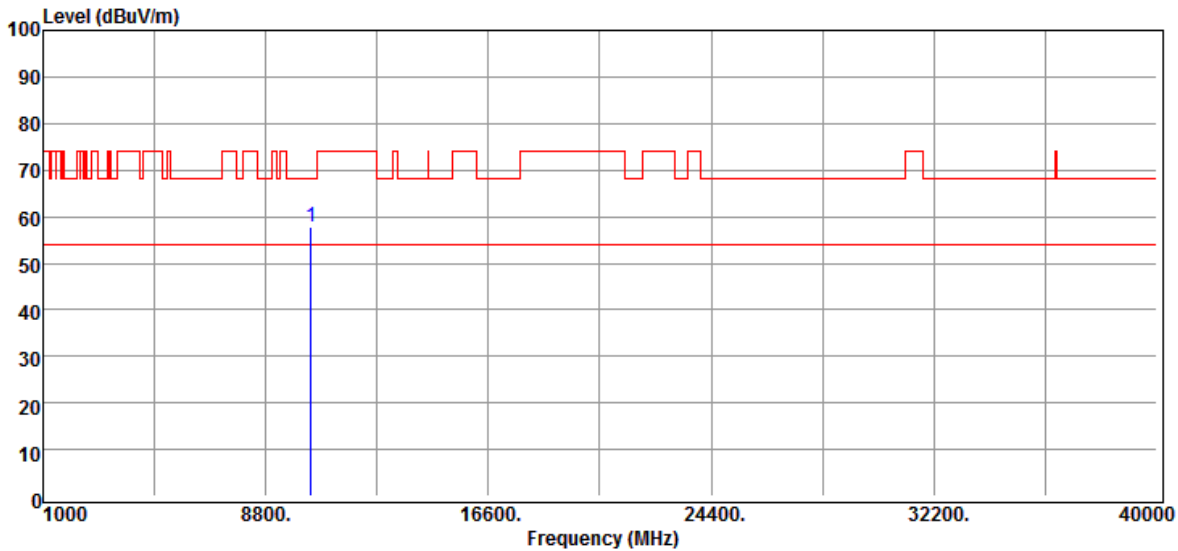
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	29.86	26.69	56.55	68.20	-11.65

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Enzo



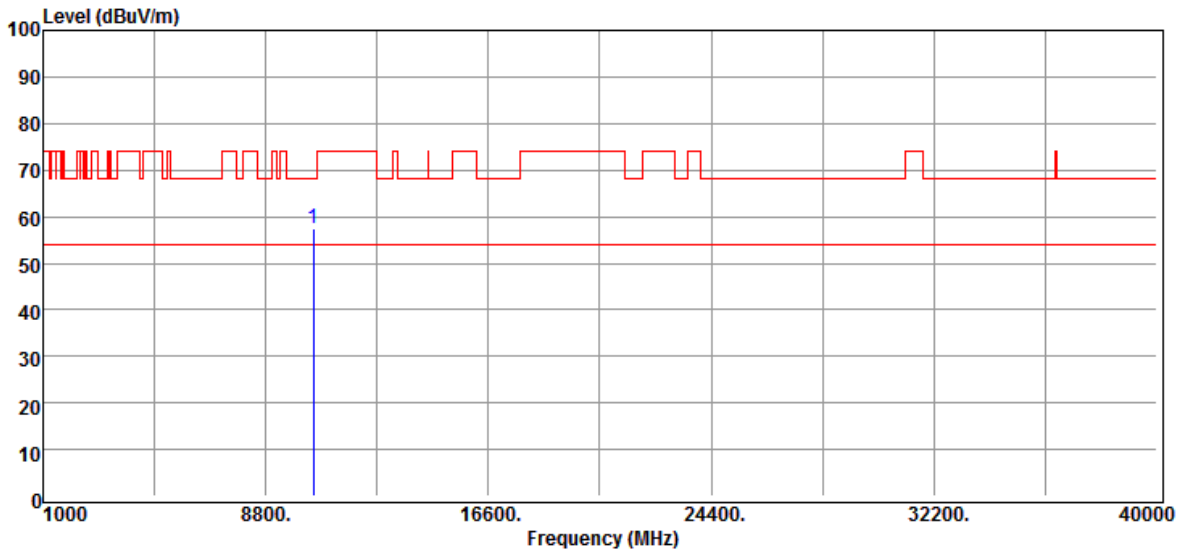
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
10380.00	Peak	31.20	26.69	57.89	68.20	-10.31

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Enzo



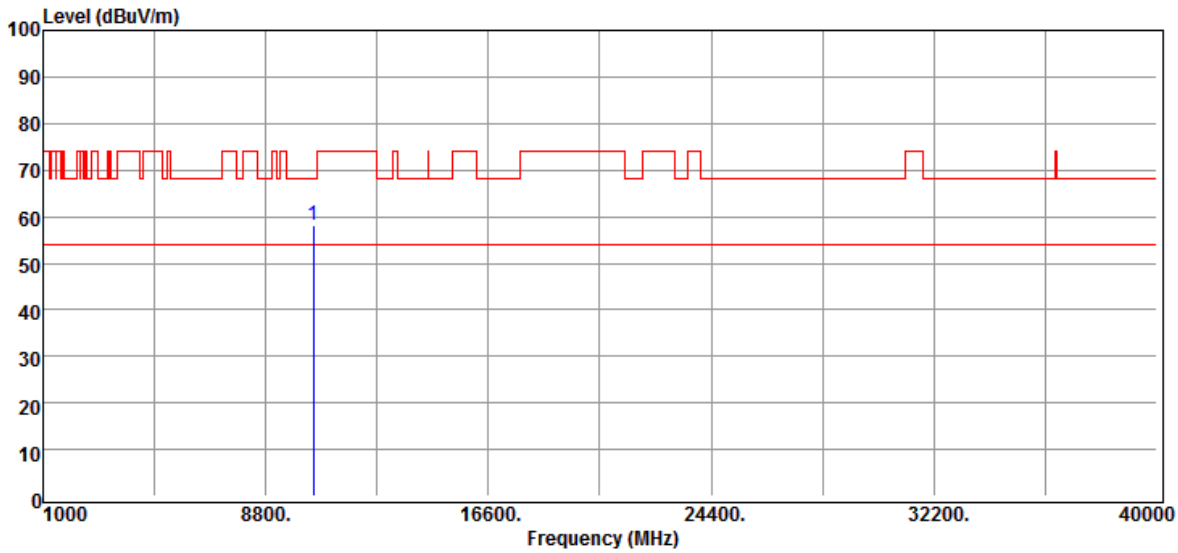
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	30.38	27.06	57.44	68.20	-10.76

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5230 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	31.16	27.06	58.22	68.20	-9.98

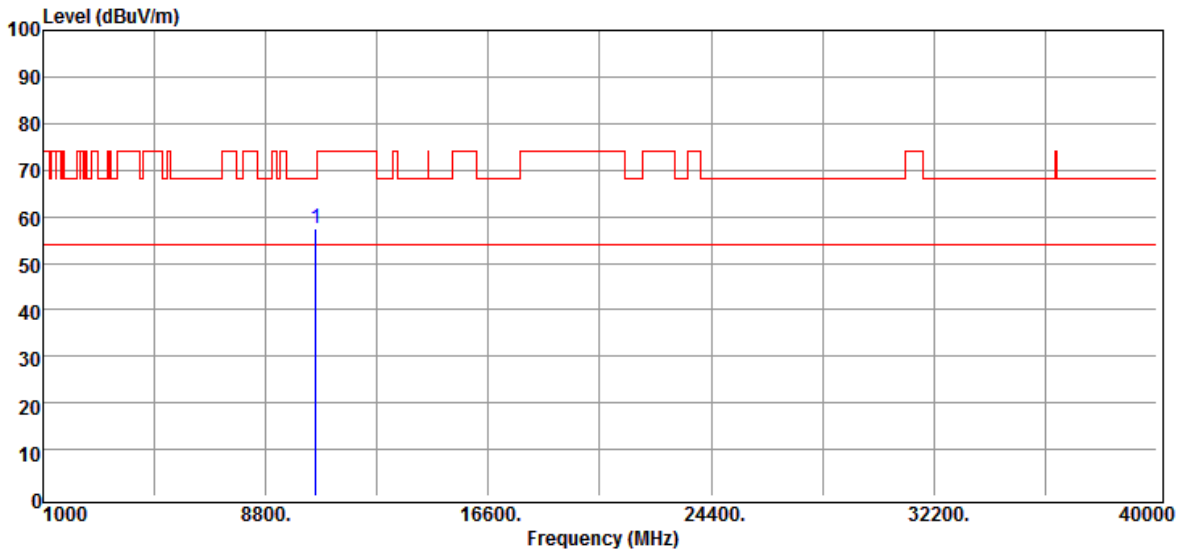
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Enzo



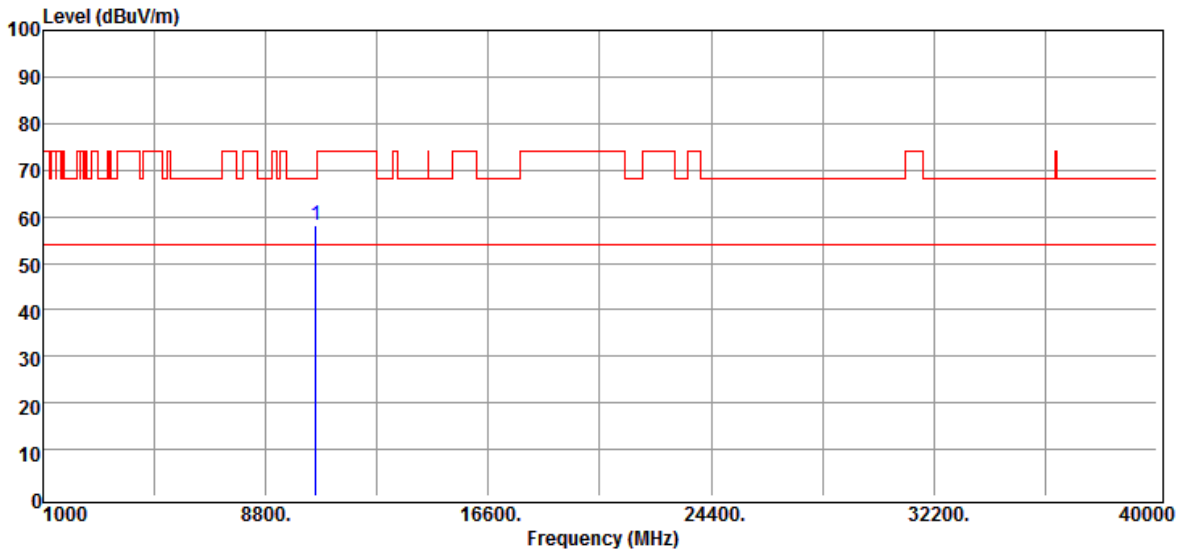
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	30.14	27.23	57.37	68.20	-10.83

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5270 MHz	Engineer	:Enzo



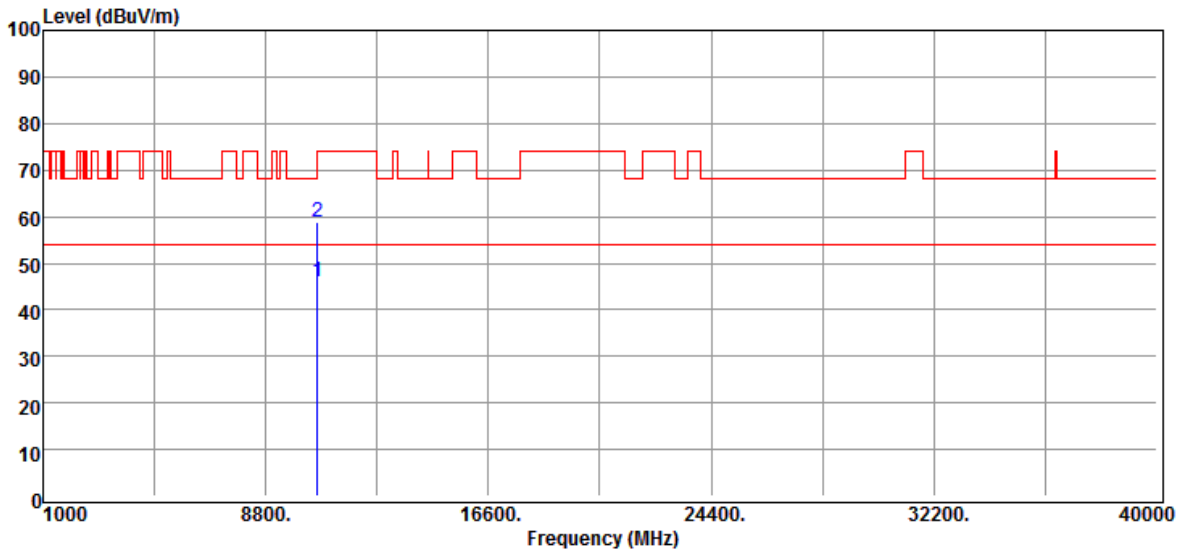
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	30.95	27.23	58.18	68.20	-10.02

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Enzo



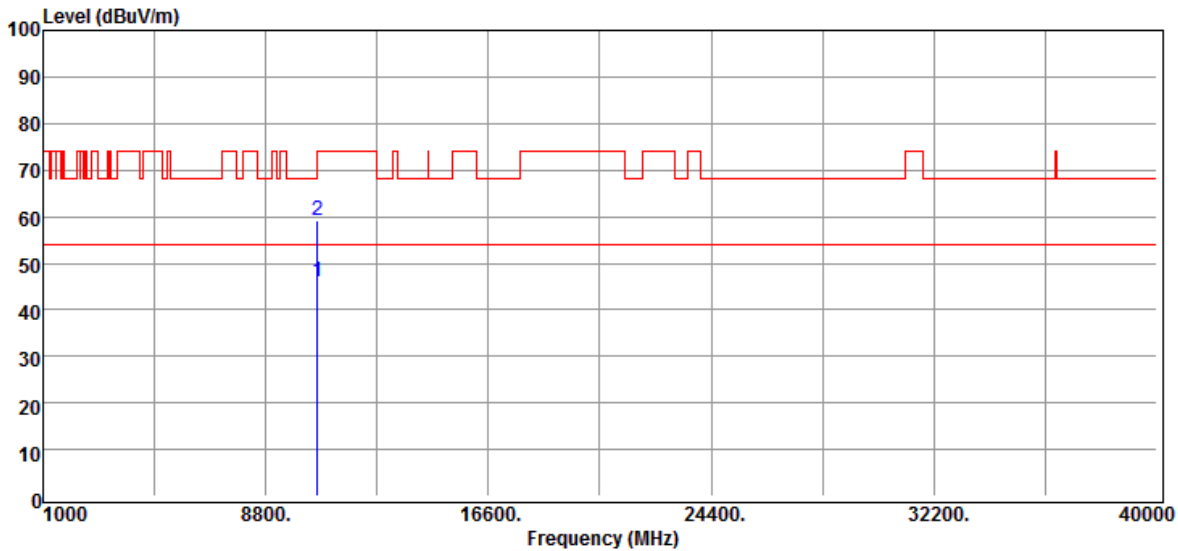
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	18.72	27.20	45.92	54.00	-8.08
10620.00	Peak	31.74	27.20	58.94	74.00	-15.06

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	18.74	27.20	45.94	54.00	-8.06
10620.00	Peak	31.88	27.20	59.08	74.00	-14.92

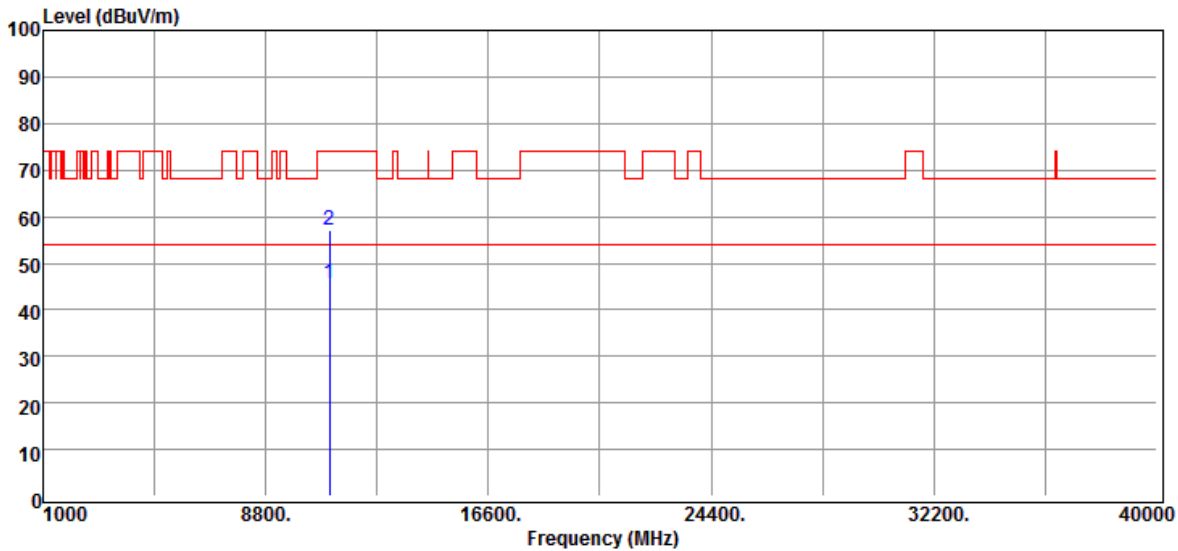
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Enzo



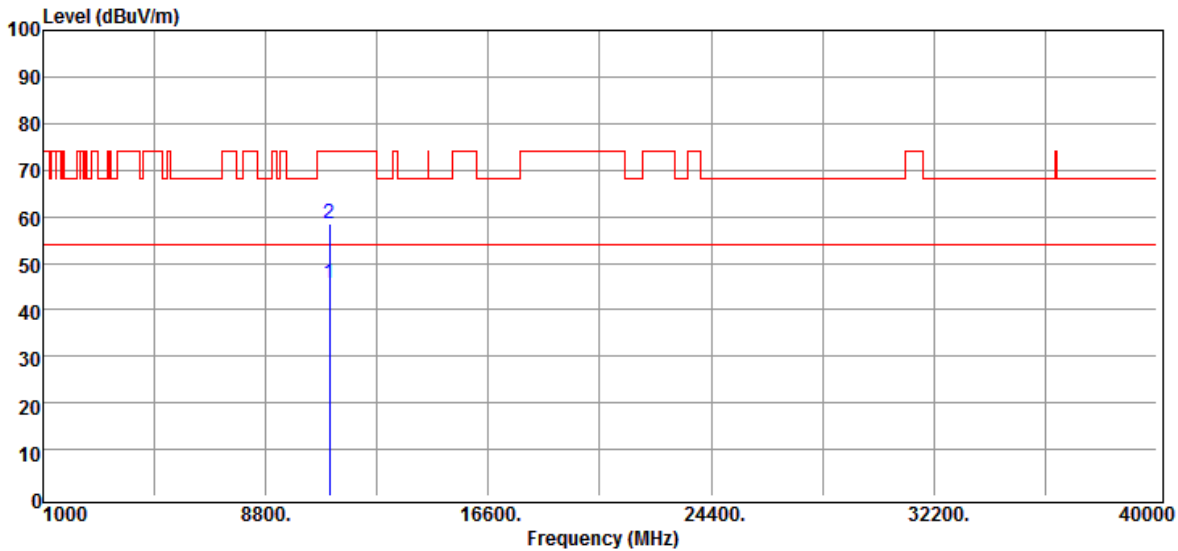
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	18.73	27.04	45.77	54.00	-8.23
11020.00	Peak	30.22	27.04	57.26	74.00	-16.74

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Enzo



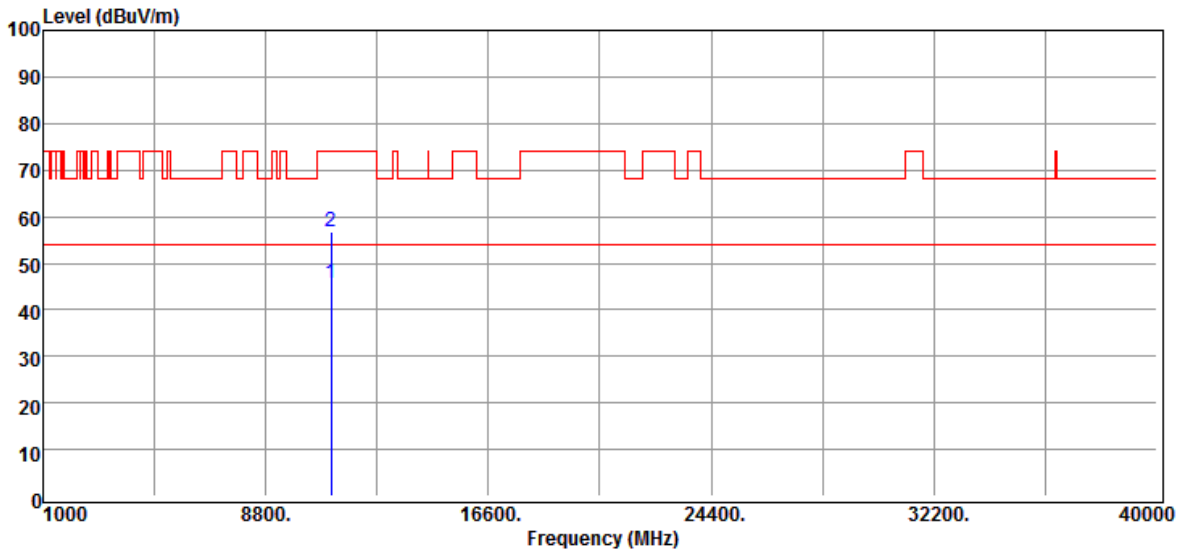
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	18.76	27.04	45.80	54.00	-8.20
11020.00	Peak	31.38	27.04	58.42	74.00	-15.58

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5550 MHz	Engineer	:Enzo



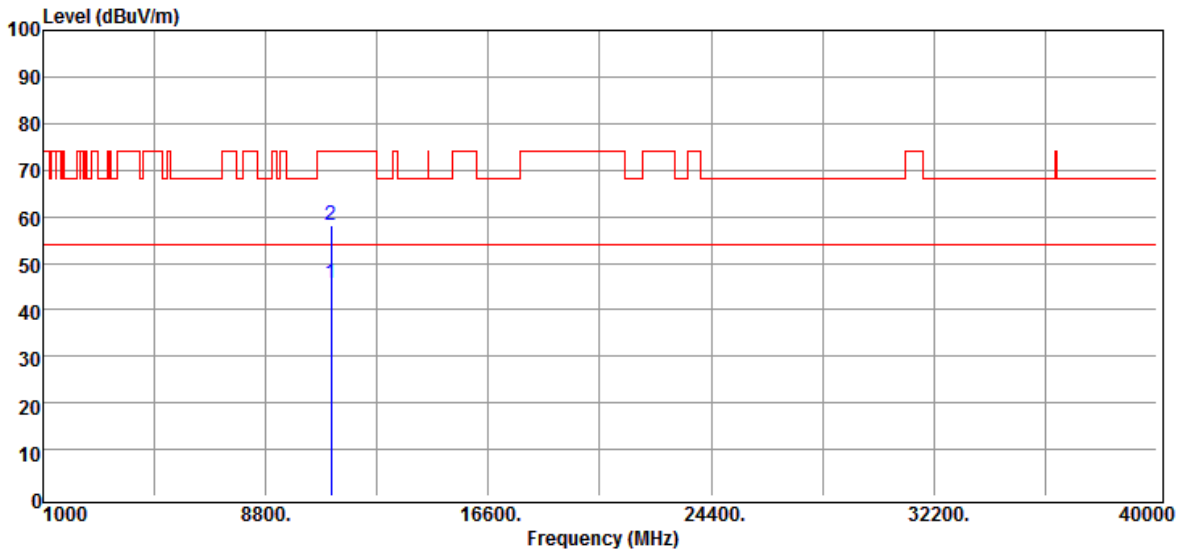
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	18.69	26.83	45.52	54.00	-8.48
11100.00	Peak	30.07	26.83	56.90	74.00	-17.10

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5550 MHz	Engineer	:Enzo



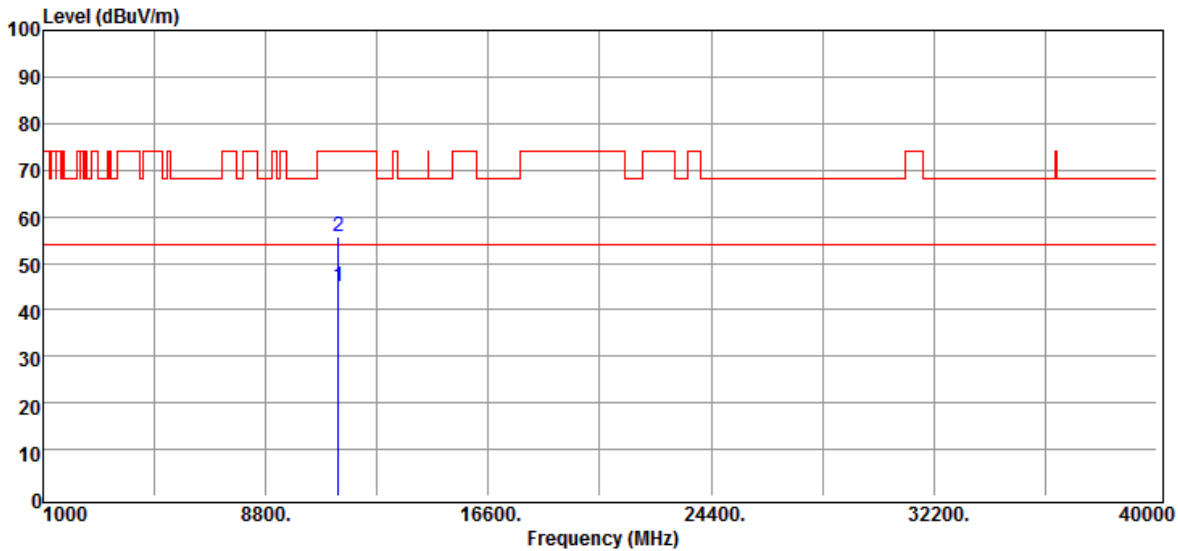
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	18.71	26.83	45.54	54.00	-8.46
11100.00	Peak	31.34	26.83	58.17	74.00	-15.83

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Enzo



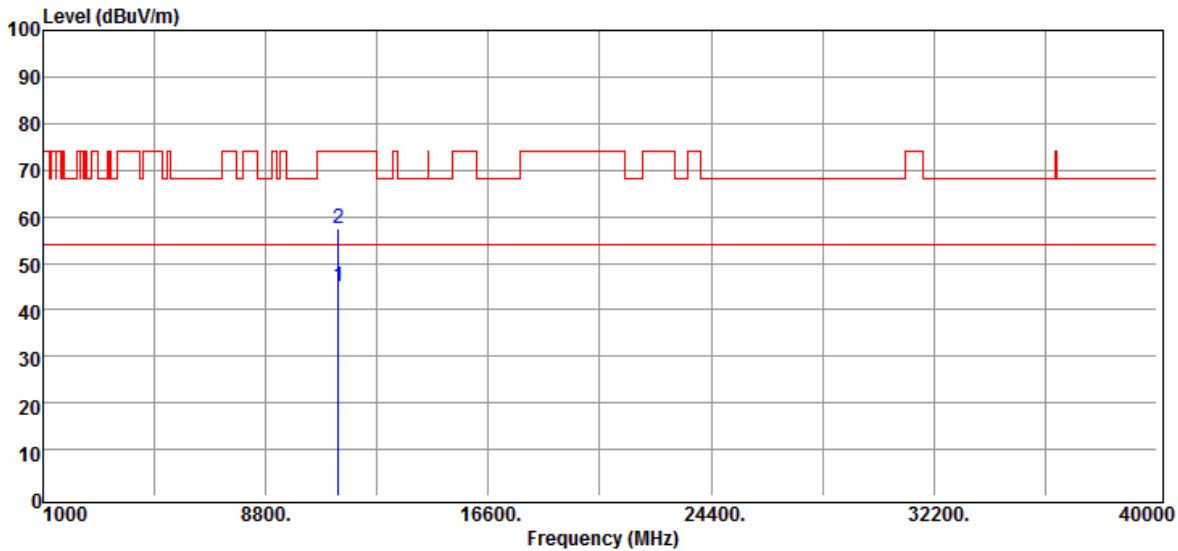
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	18.66	26.21	44.87	54.00	-9.13
11340.00	Peak	29.52	26.21	55.73	74.00	-18.27

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Enzo



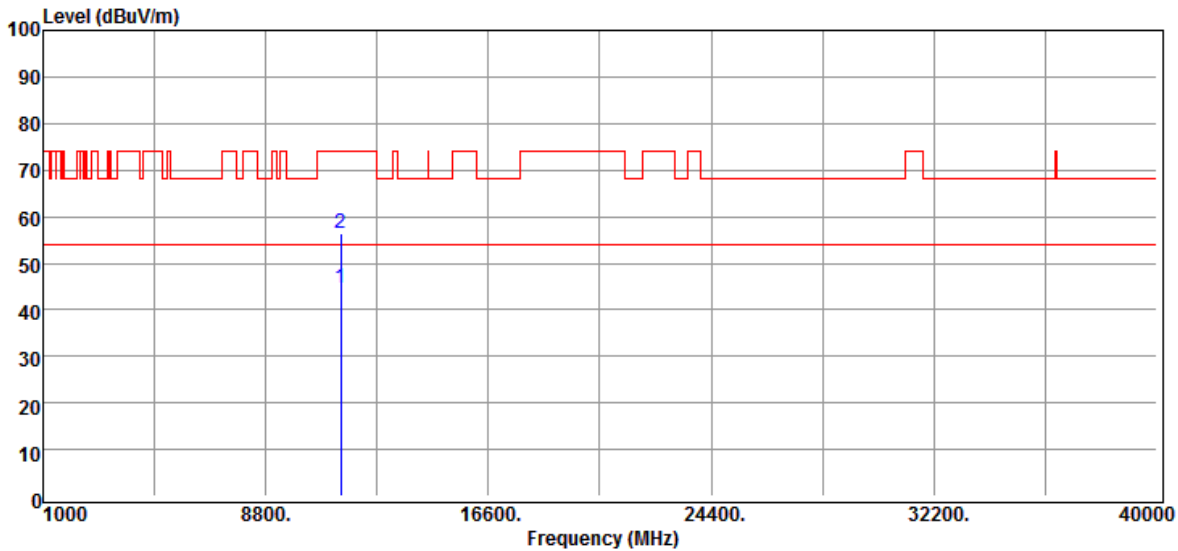
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	18.72	26.21	44.93	54.00	-9.07
11340.00	Peak	31.37	26.21	57.58	74.00	-16.42

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Operation Mode	:802.11n40 / Band 3-4	Test Date	:2018-09-04
Test Mode	:TX CH 142	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Enzo



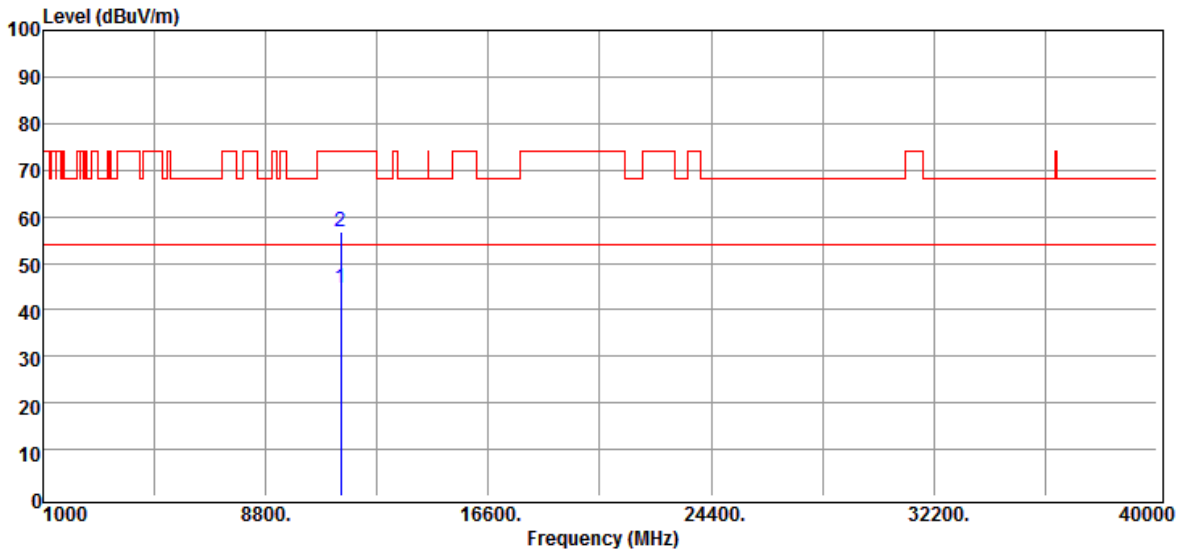
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	18.64	26.01	44.65	54.00	-9.35
11420.00	Peak	30.23	26.01	56.24	74.00	-17.76

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Operation Mode	:802.11n40 / Band 3-4	Test Date	:2018-09-04
Test Mode	:TX CH 142	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5710 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	18.73	26.01	44.74	54.00	-9.26
11420.00	Peak	30.88	26.01	56.89	74.00	-17.11

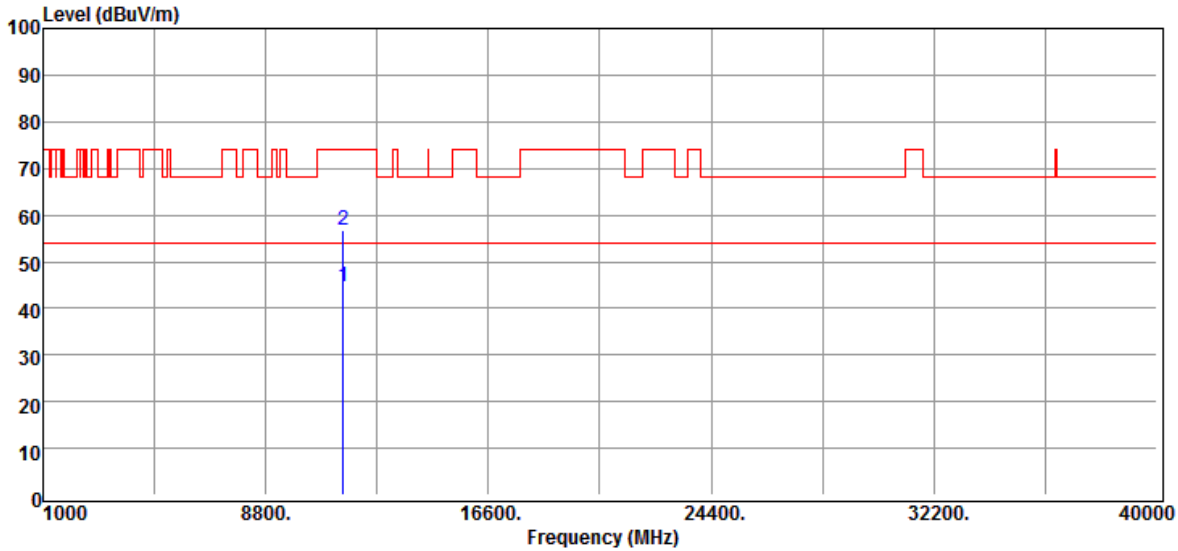
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Enzo



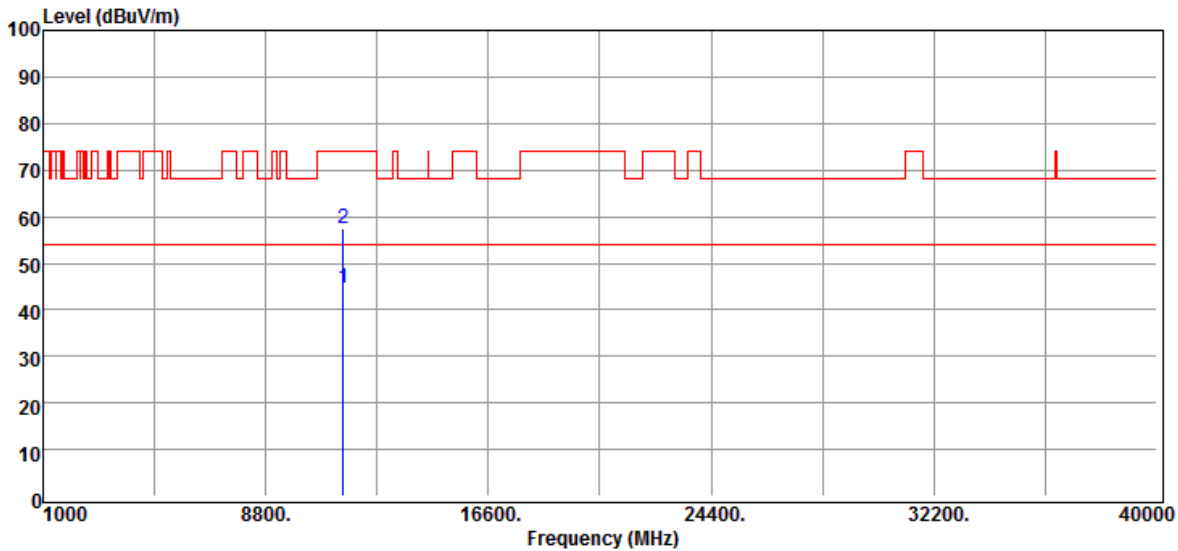
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	18.67	25.82	44.49	54.00	-9.51
11510.00	Peak	30.97	25.82	56.79	74.00	-17.21

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Enzo



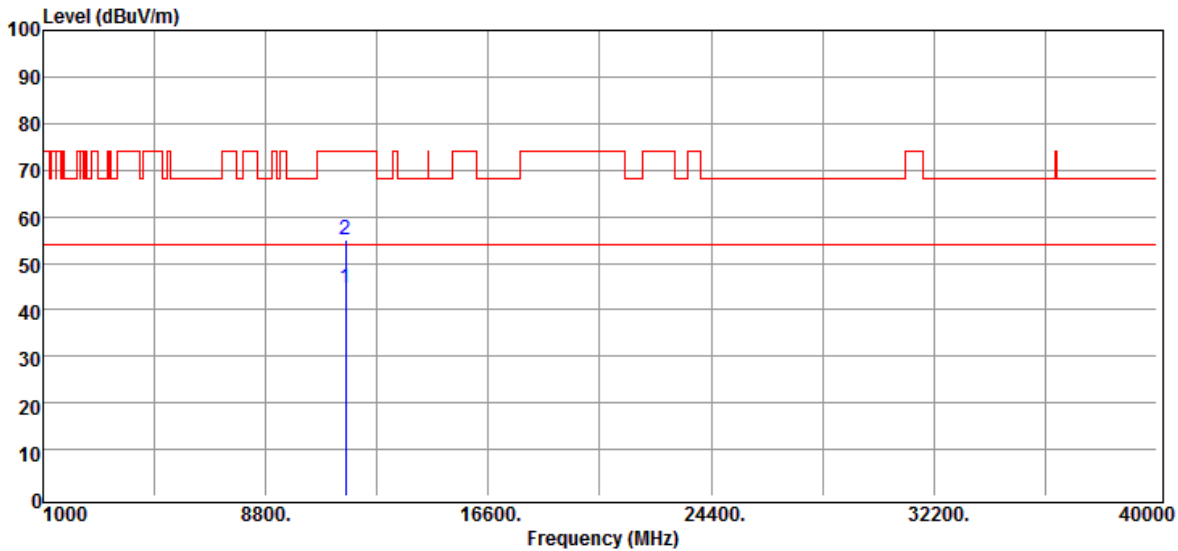
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	18.76	25.82	44.58	54.00	-9.42
11510.00	Peak	31.64	25.82	57.46	74.00	-16.54

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Enzo



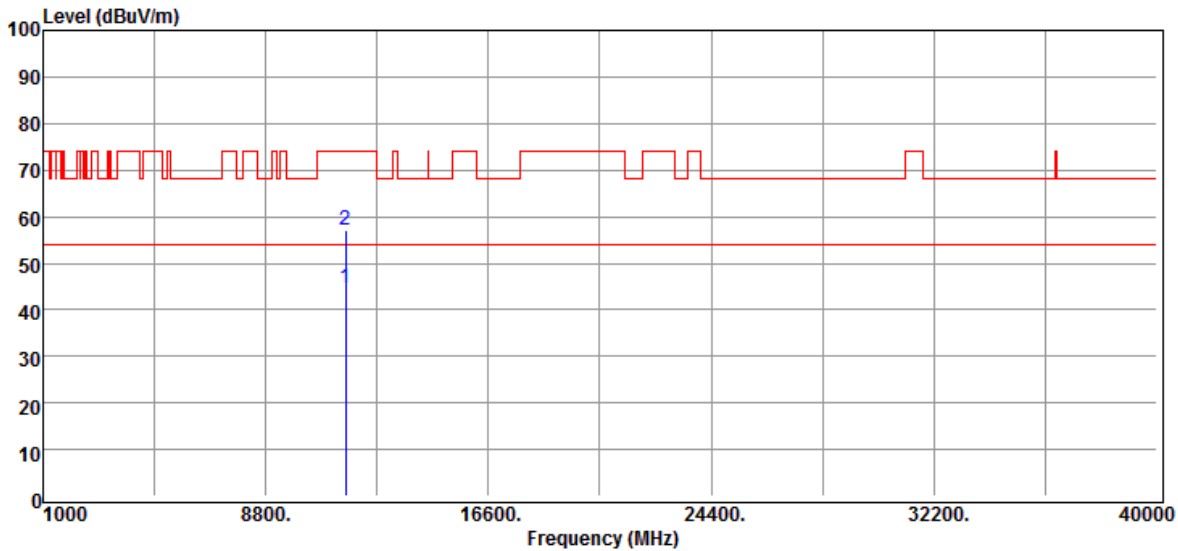
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	18.65	25.89	44.54	54.00	-9.46
11590.00	Peak	29.24	25.89	55.13	74.00	-18.87

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	18.77	25.89	44.66	54.00	-9.34
11590.00	Peak	31.21	25.89	57.10	74.00	-16.90

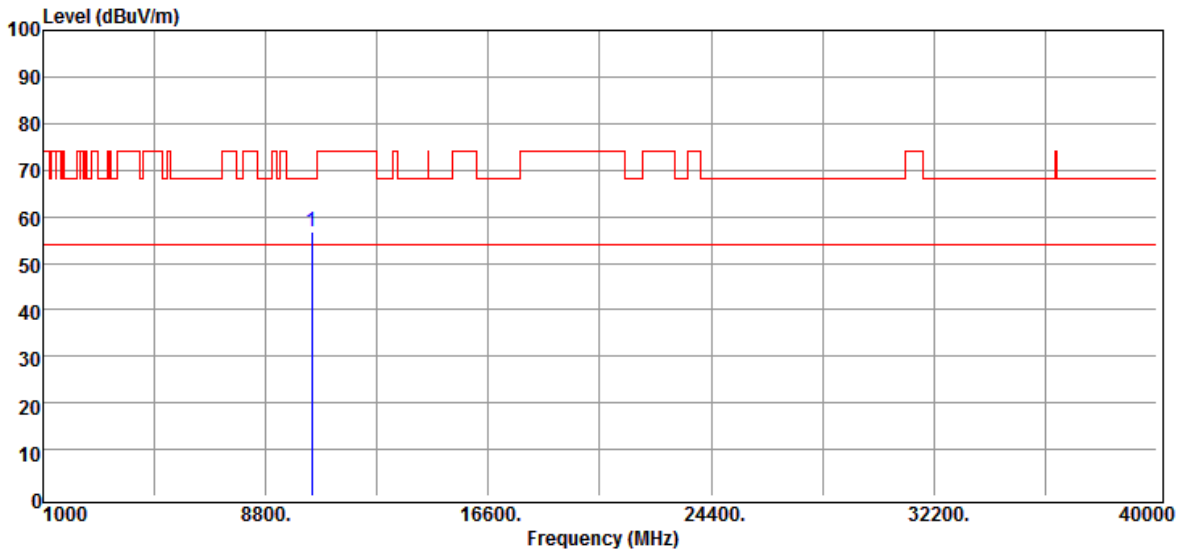
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



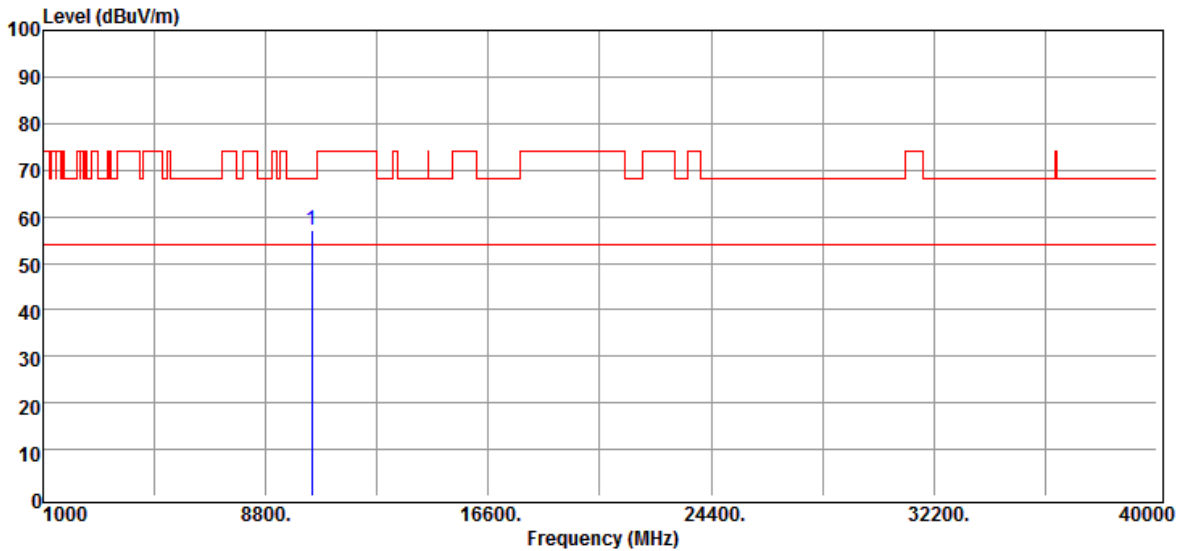
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	29.89	26.87	56.76	68.20	-11.44

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	30.11	26.87	56.98	68.20	-11.22

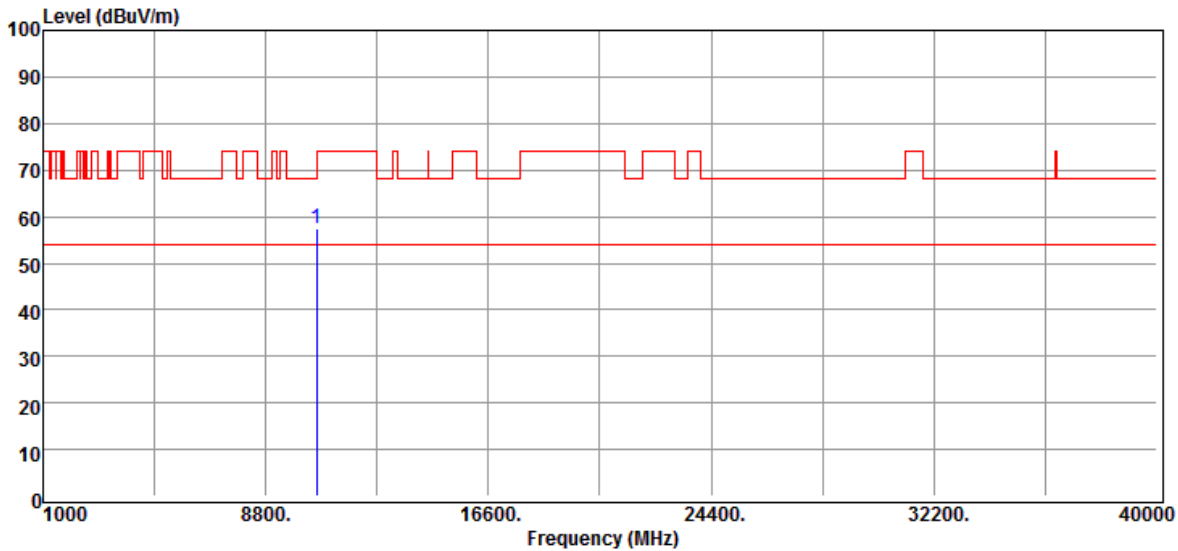
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



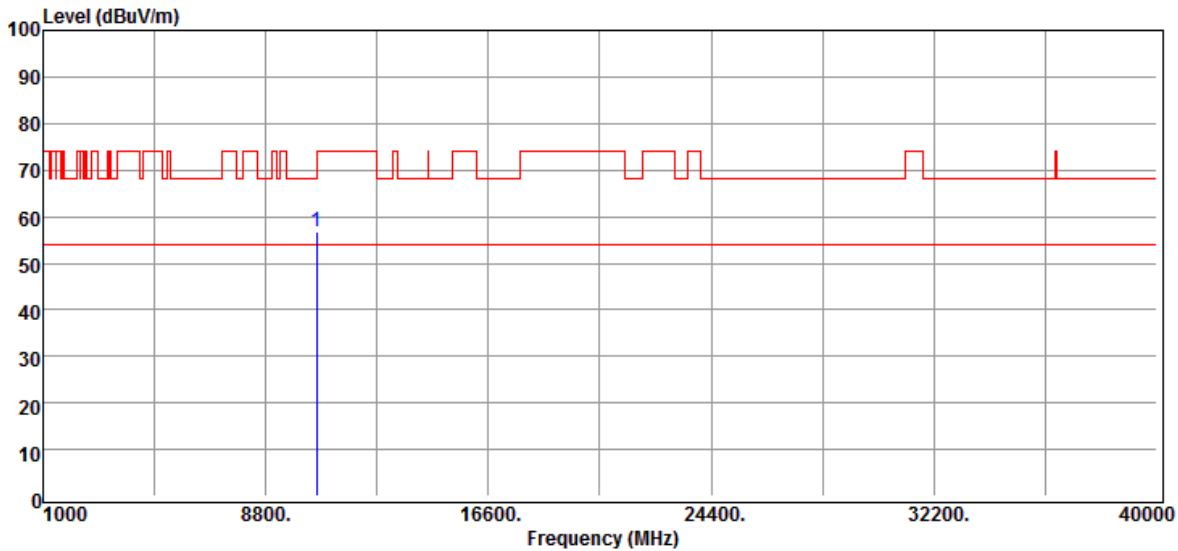
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
10580.00	Peak	30.11	27.22	57.33	68.20	-10.87

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	29.51	27.22	56.73	68.20	-11.47

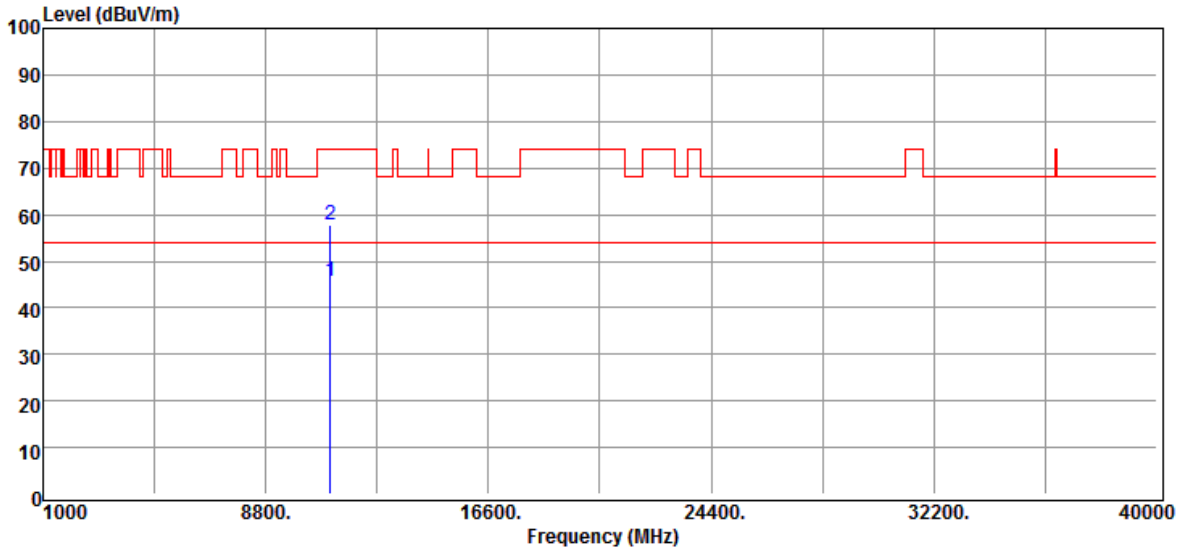
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Enzo



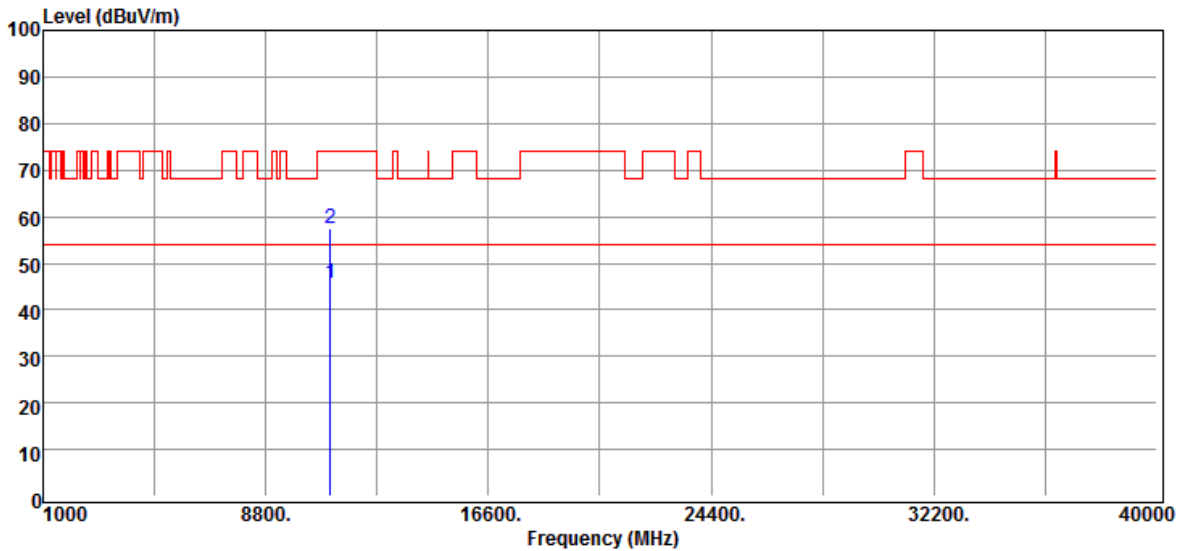
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	18.75	26.94	45.69	54.00	-8.31
11060.00	Peak	30.89	26.94	57.83	74.00	-16.17

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Enzo



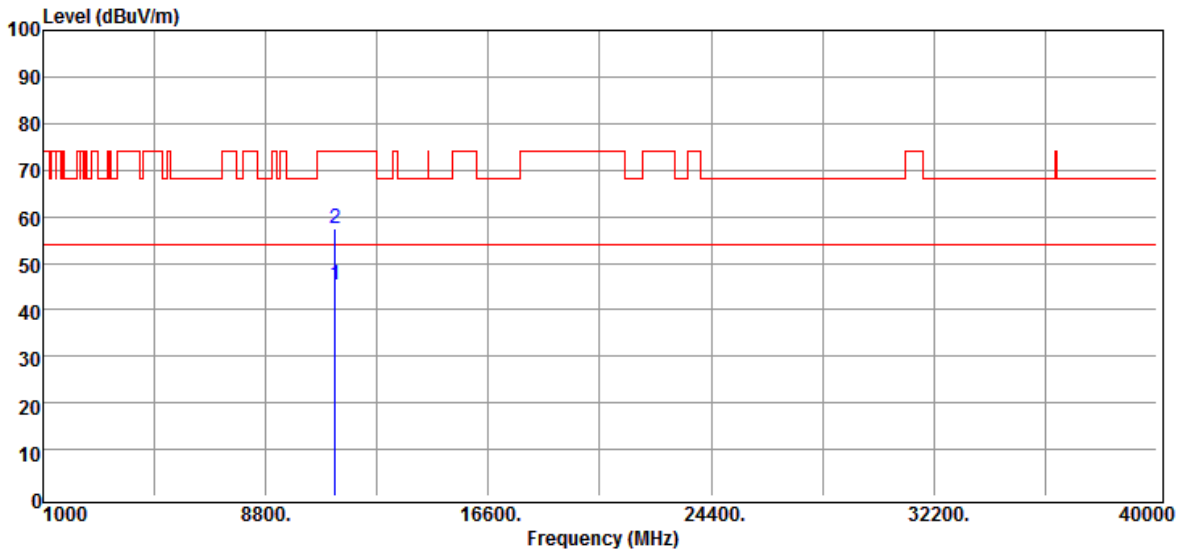
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	18.89	26.94	45.83	54.00	-8.17
11060.00	Peak	30.37	26.94	57.31	74.00	-16.69

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Enzo



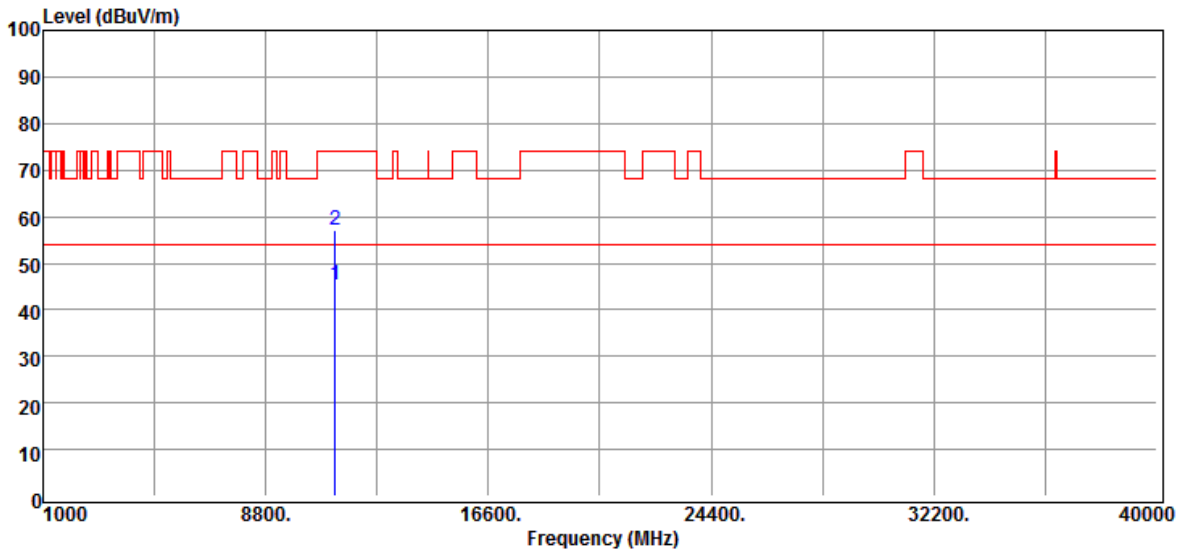
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	18.77	26.52	45.29	54.00	-8.71
11220.00	Peak	30.75	26.52	57.27	74.00	-16.73

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Enzo



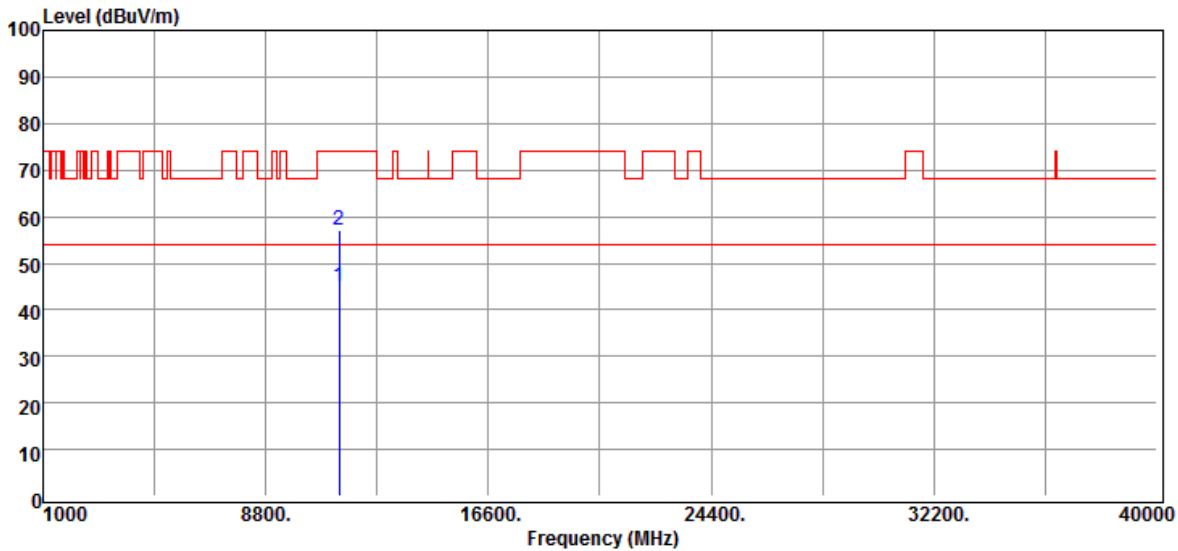
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	18.92	26.52	45.44	54.00	-8.56
11220.00	Peak	30.71	26.52	57.23	74.00	-16.77

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5690 MHz	Engineer	:Enzo



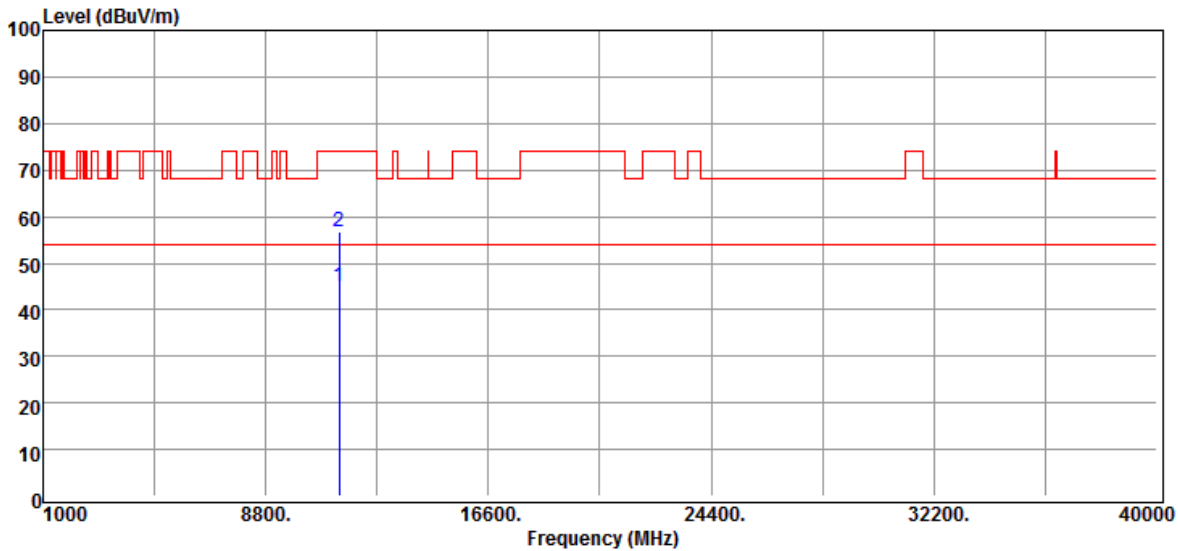
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	18.75	26.11	44.86	54.00	-9.14
11380.00	Peak	30.84	26.11	56.95	74.00	-17.05

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-09-04
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	18.89	26.11	45.00	54.00	-9.00
11380.00	Peak	30.69	26.11	56.80	74.00	-17.20

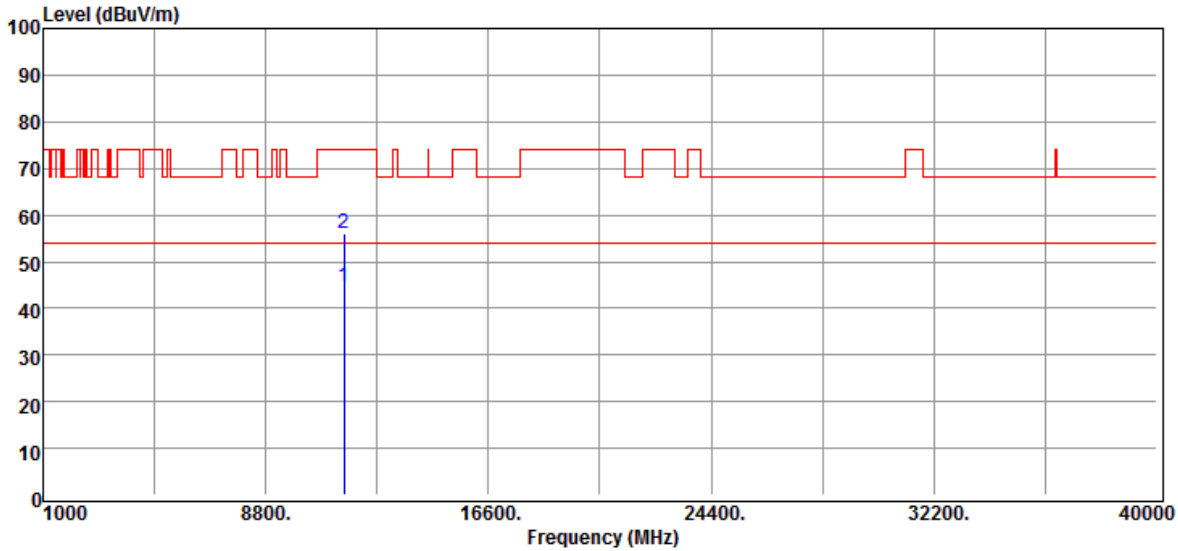
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



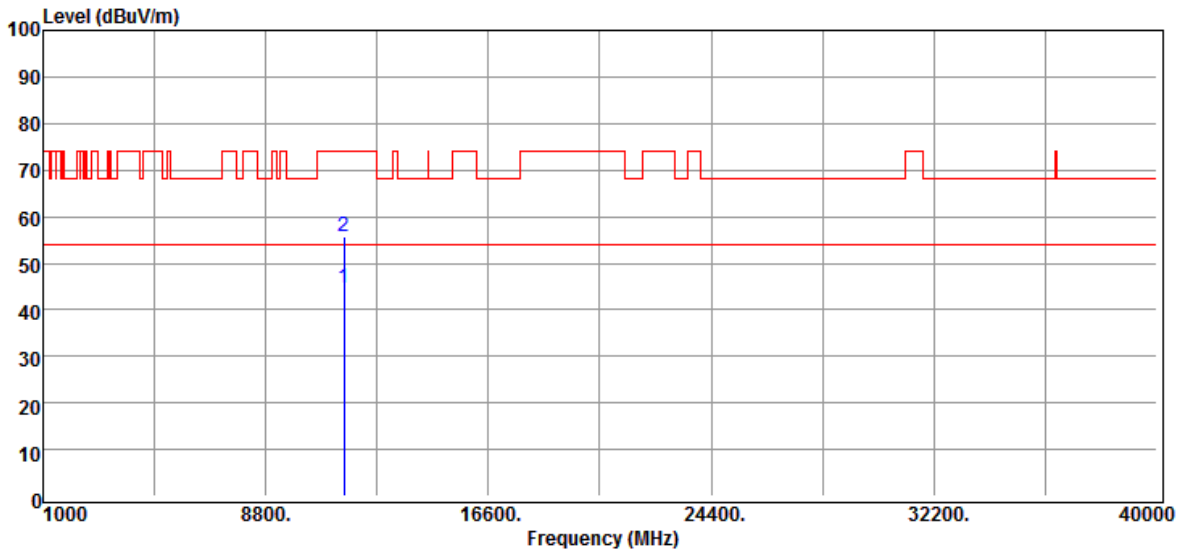
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	18.79	25.85	44.64	54.00	-9.36
11550.00	Peak	30.34	25.85	56.19	74.00	-17.81

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-09-04
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	18.91	25.85	44.76	54.00	-9.24
11550.00	Peak	29.86	25.85	55.71	74.00	-18.29

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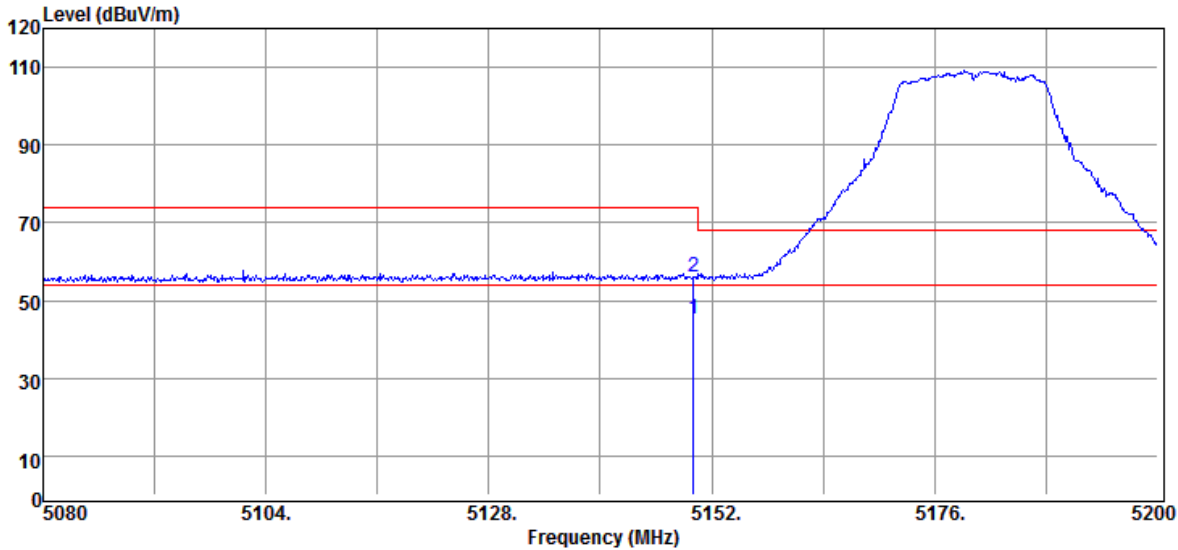
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Band edge falling to restricted band

802.11a mode

Operation Mode	:802.11a / Band 1	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



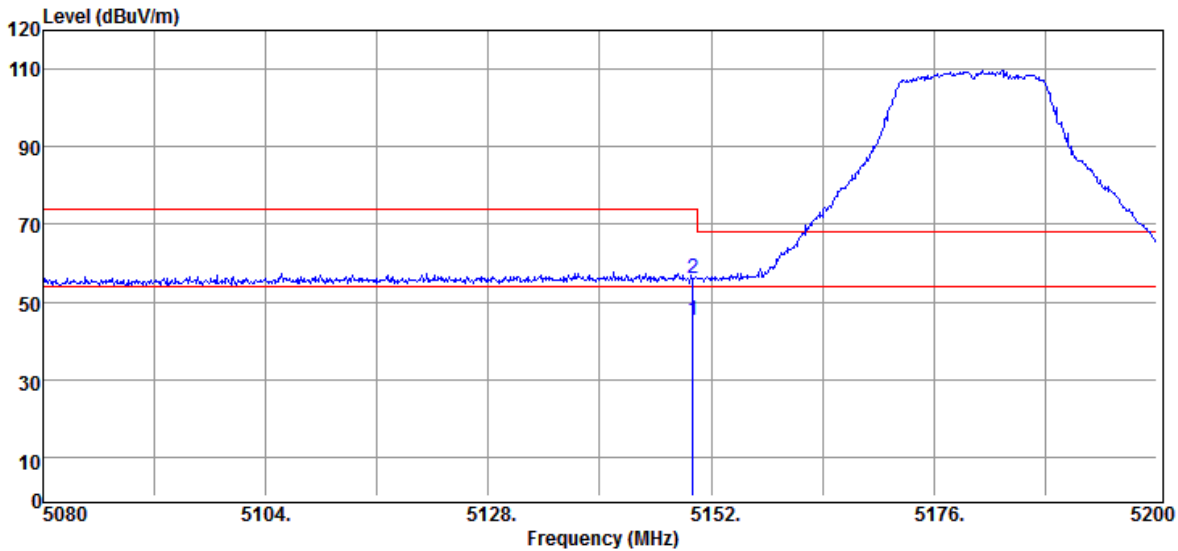
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	31.76	13.65	45.41	54.00	-8.59
5150.00	Peak	42.25	13.65	55.90	74.00	-18.10

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Operation Mode	:802.11a / Band 1	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



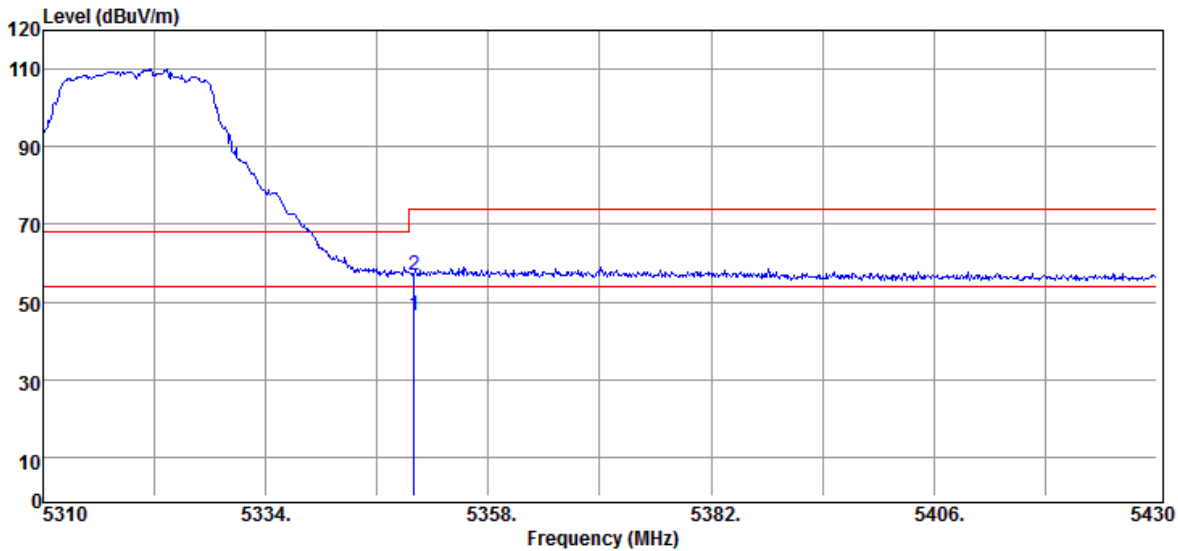
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	31.80	13.65	45.45	54.00	-8.55
5150.00	Peak	42.57	13.65	56.22	74.00	-17.78

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Operation Mode	:802.11a / Band 2	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



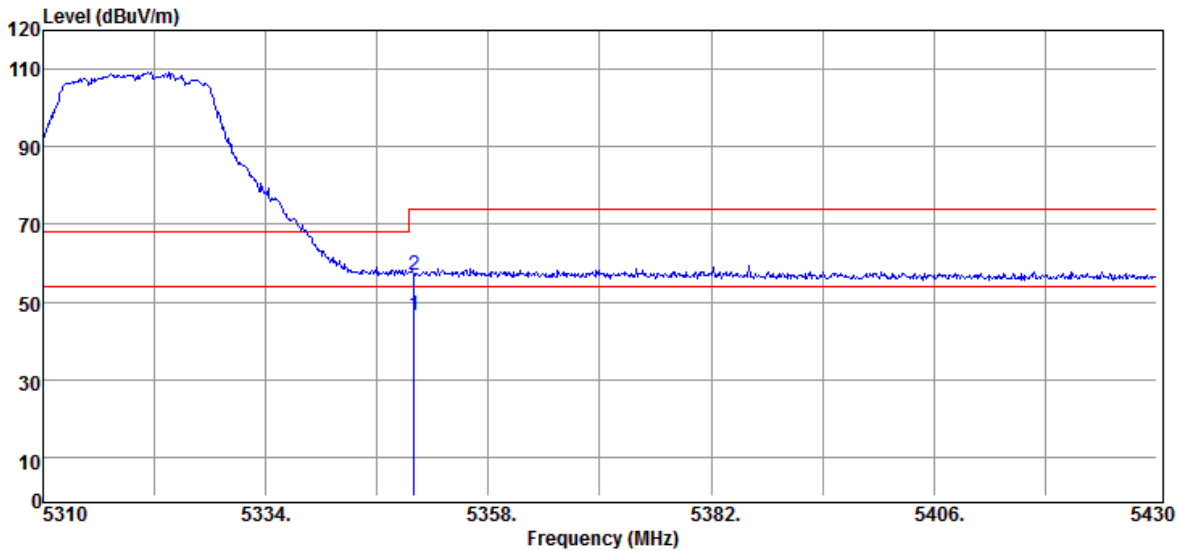
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	32.34	14.16	46.50	54.00	-7.50
5350.00	Peak	42.66	14.16	56.82	74.00	-17.18

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Operation Mode	:802.11a / Band 2	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



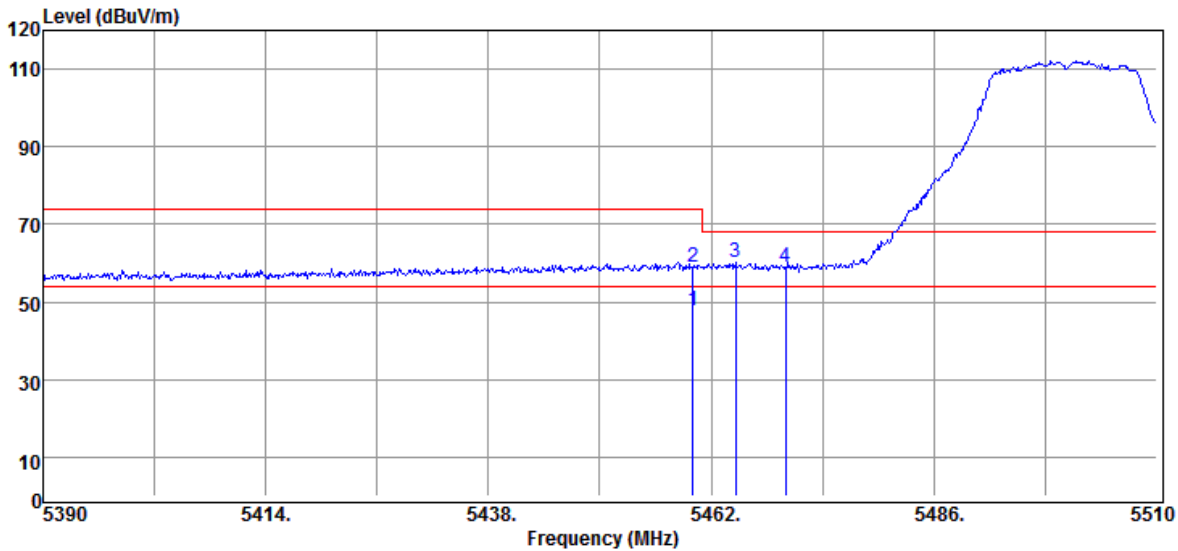
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	32.23	14.16	46.39	54.00	-7.61
5350.00	Peak	42.75	14.16	56.91	74.00	-17.09

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Operation Mode	:802.11a / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



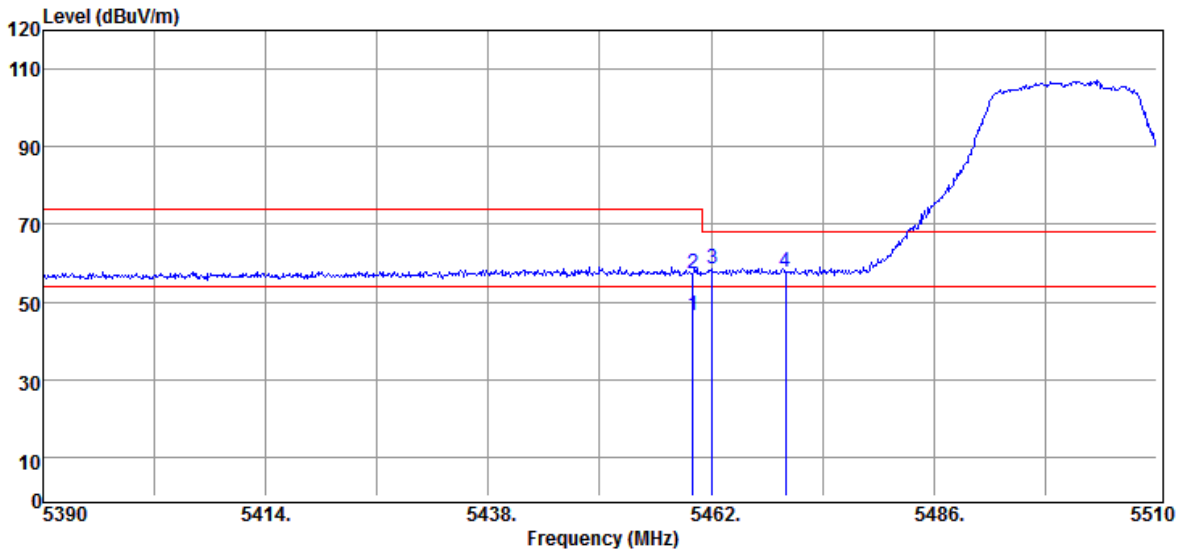
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	33.41	14.31	47.72	54.00	-6.28
5460.00	Peak	44.45	14.31	58.76	74.00	-15.24
5464.64	Peak	45.81	14.32	60.13	68.20	-8.07
5470.00	Peak	44.81	14.31	59.12	68.20	-9.08

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Operation Mode	:802.11a / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



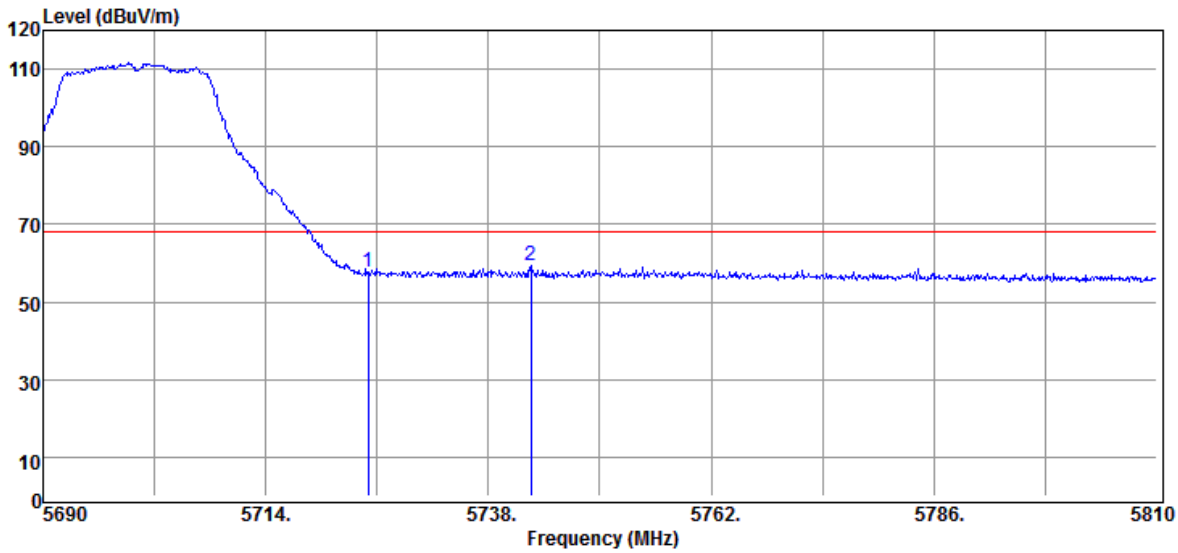
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5460.00	Average	32.17	14.31	46.48	54.00	-7.52
5460.00	Peak	42.91	14.31	57.22	74.00	-16.78
5462.12	Peak	44.29	14.32	58.61	68.20	-9.59
5470.00	Peak	43.48	14.31	57.79	68.20	-10.41

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Operation Mode	:802.11a / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



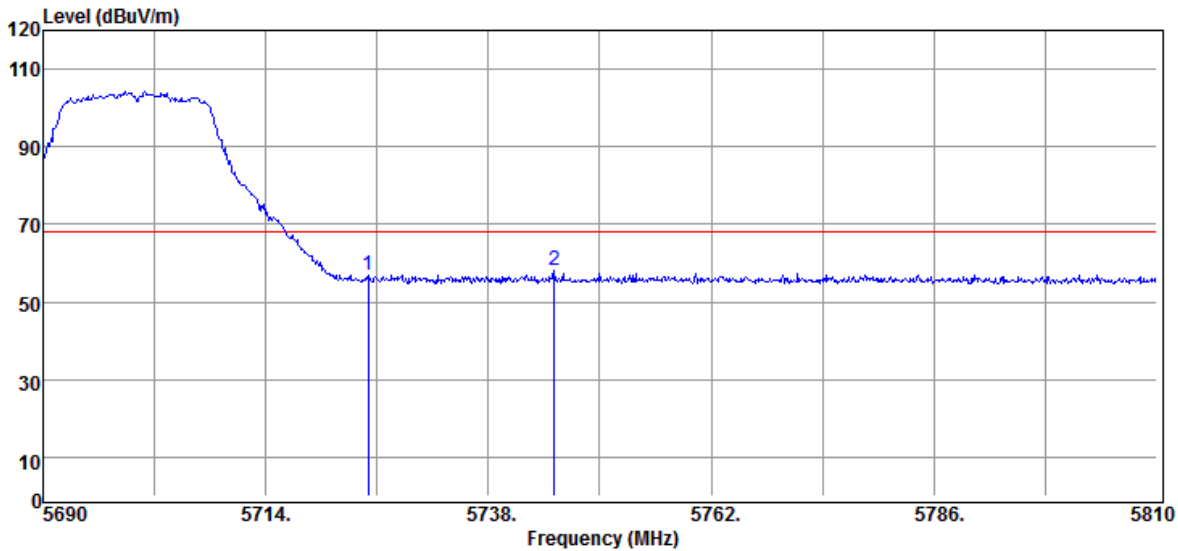
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	43.27	14.50	57.77	68.20	-10.43
5742.56	Peak	44.78	14.52	59.30	68.20	-8.90

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Operation Mode	:802.11a / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



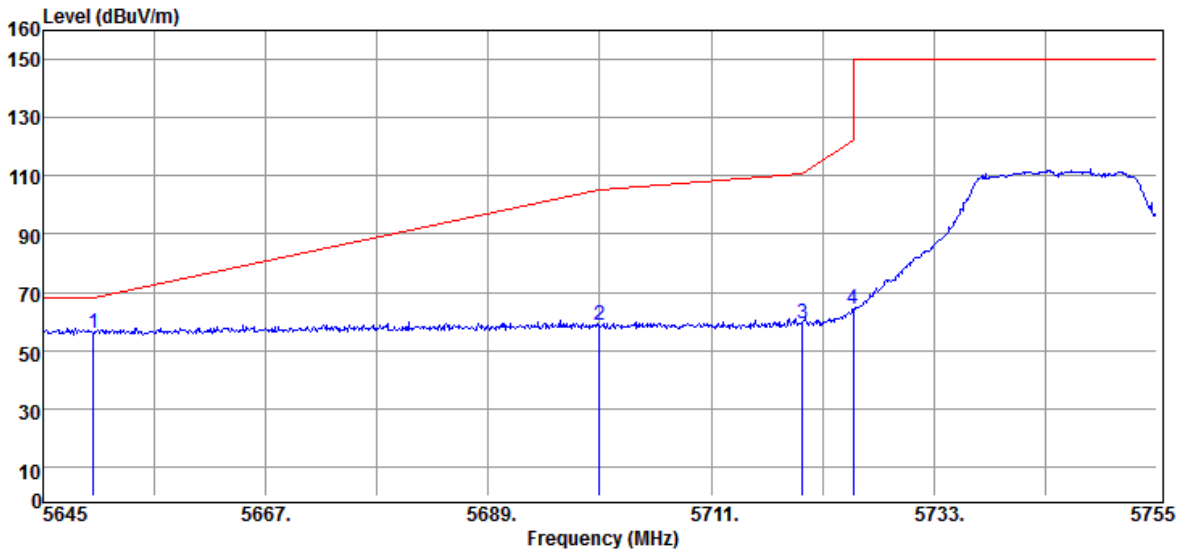
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	42.35	14.50	56.85	68.20	-11.35
5745.08	Peak	43.49	14.52	58.01	68.20	-10.19

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Operation Mode	:802.11a / Band 4	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



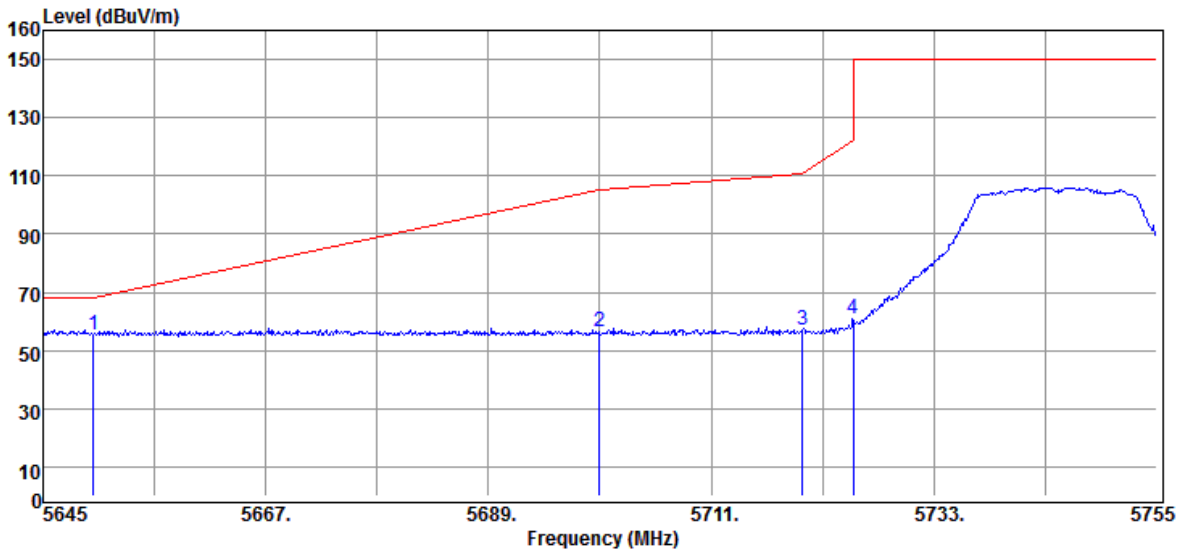
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	41.33	14.42	55.75	68.20	-12.45
5700.00	Peak	44.26	14.47	58.73	105.20	-46.47
5720.00	Peak	44.48	14.49	58.97	110.80	-51.83
5725.00	Peak	49.59	14.50	64.09	122.20	-58.11

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Operation Mode	:802.11a / Band 4	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



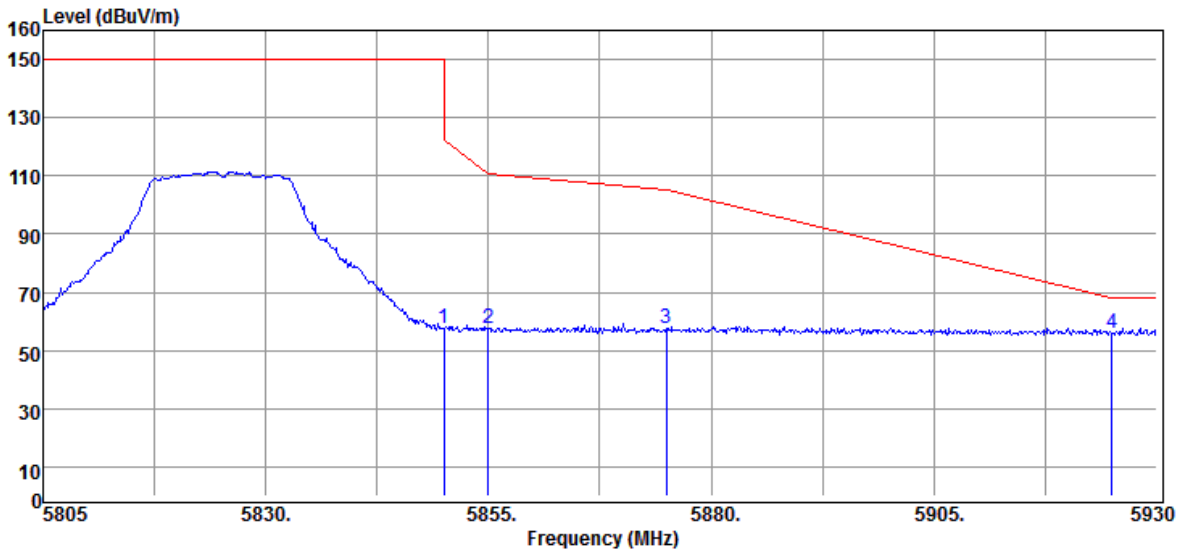
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	41.20	14.42	55.62	68.20	-12.58
5700.00	Peak	41.77	14.47	56.24	105.20	-48.96
5720.00	Peak	42.39	14.49	56.88	110.80	-53.92
5725.00	Peak	46.17	14.50	60.67	122.20	-61.53

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Operation Mode	:802.11a / Band 4	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	42.98	14.72	57.70	122.20	-64.50
5855.00	Peak	43.12	14.73	57.85	110.80	-52.95
5875.00	Peak	42.66	14.78	57.44	105.20	-47.76
5925.00	Peak	41.05	14.91	55.96	68.20	-12.24

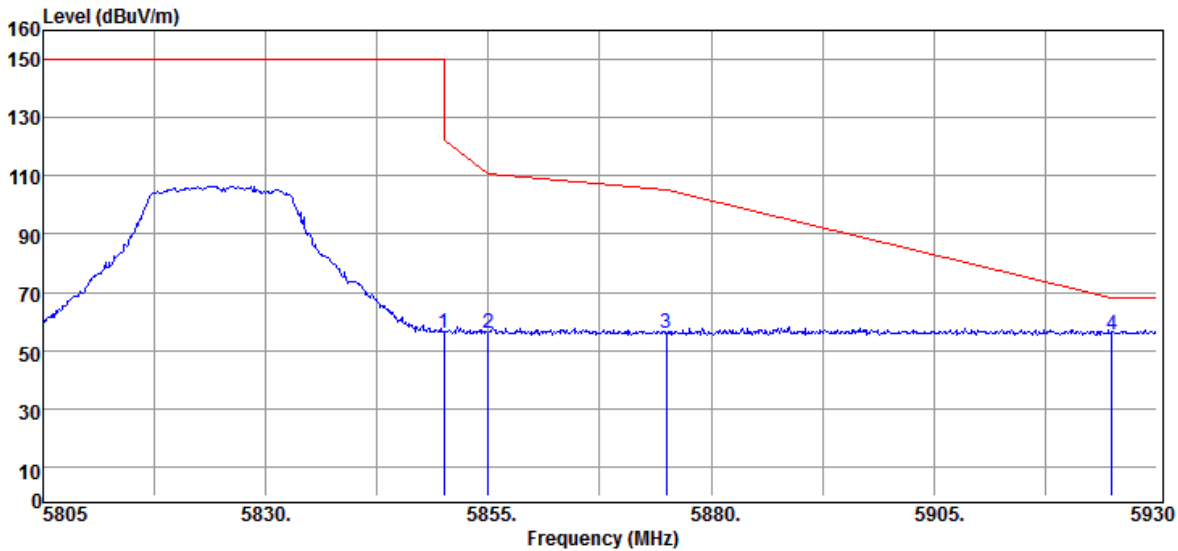
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Operation Mode :802.11a / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan
 Test Channel :5825 MHz

Test Date :2018-08-28
 Temp./Humi. :24/69
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	41.39	14.72	56.11	122.20	-66.09
5855.00	Peak	40.95	14.73	55.68	110.80	-55.12
5875.00	Peak	41.36	14.78	56.14	105.20	-49.06
5925.00	Peak	40.69	14.91	55.60	68.20	-12.60

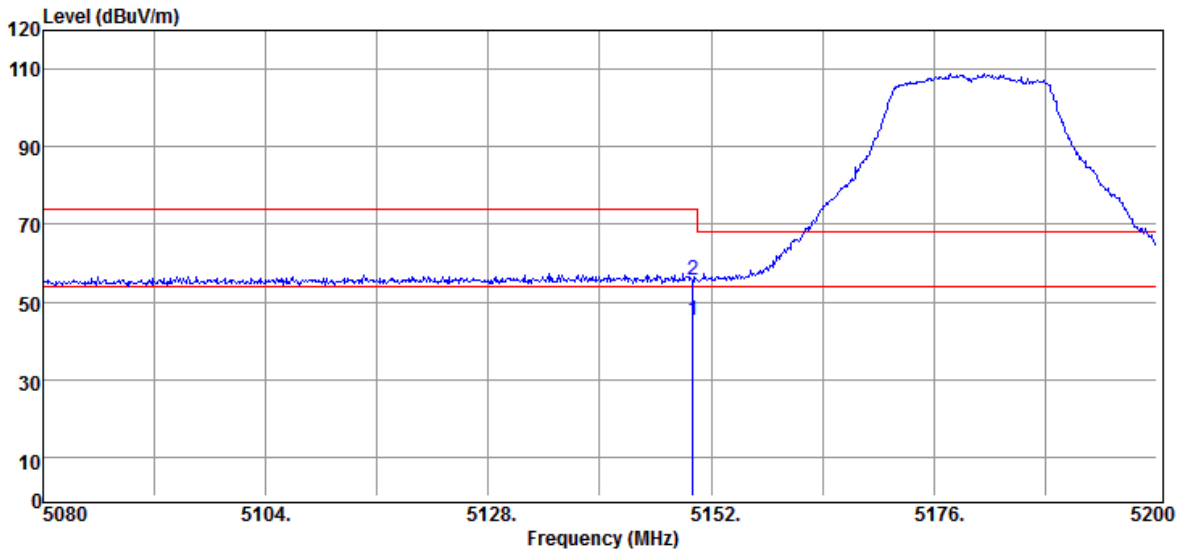
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802.11n20 HT mode

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



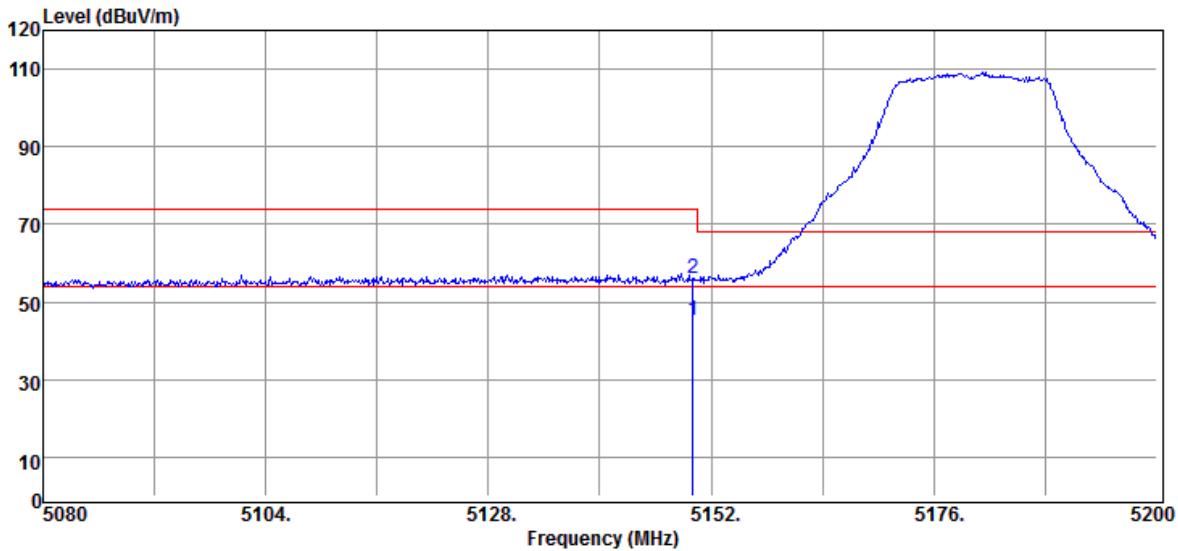
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	31.76	13.65	45.41	54.00	-8.59
5150.00	Peak	41.87	13.65	55.52	74.00	-18.48

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



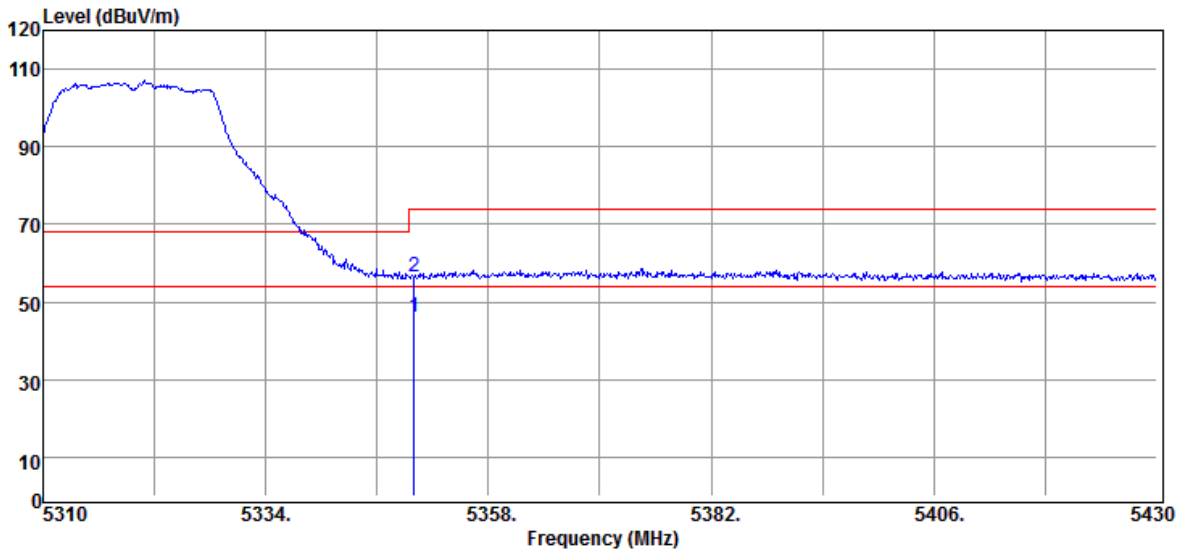
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	31.77	13.65	45.42	54.00	-8.58
5150.00	Peak	42.41	13.65	56.06	74.00	-17.94

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



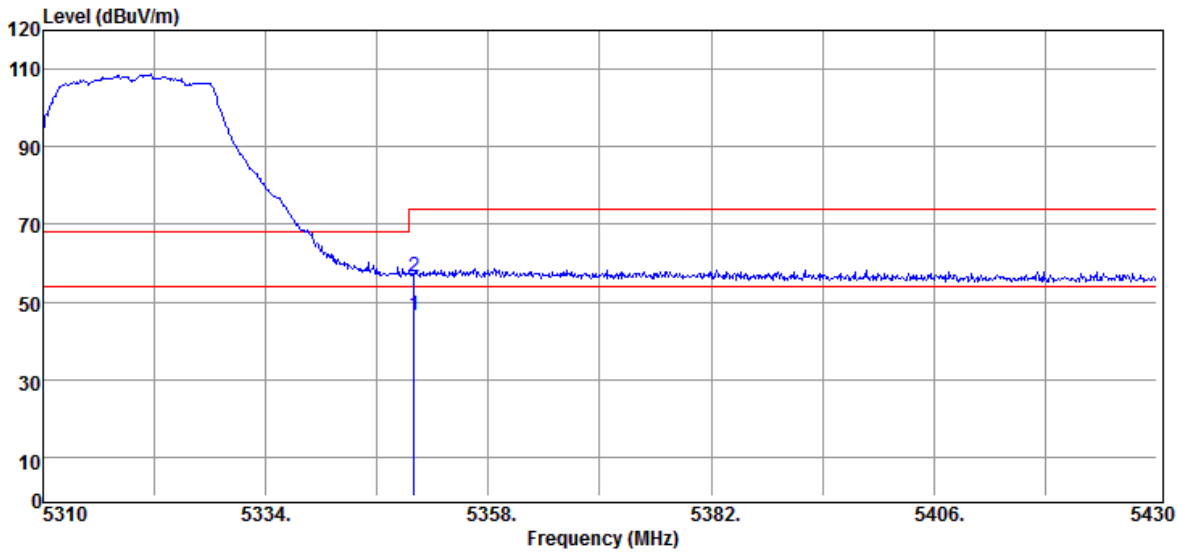
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	32.12	14.16	46.28	54.00	-7.72
5350.00	Peak	42.21	14.16	56.37	74.00	-17.63

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



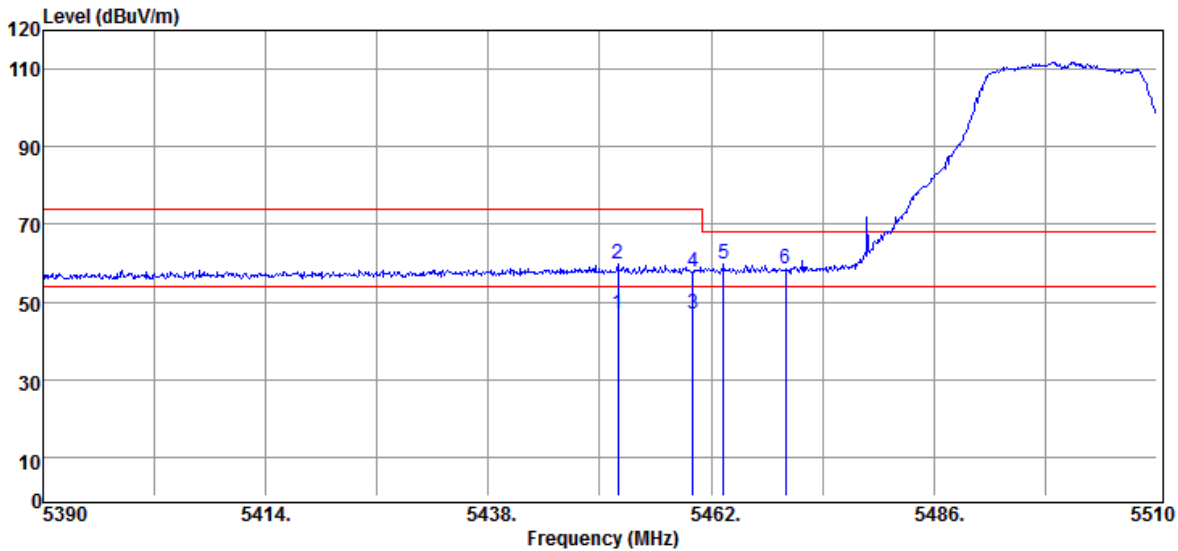
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	32.45	14.16	46.61	54.00	-7.39
5350.00	Peak	42.40	14.16	56.56	74.00	-17.44

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



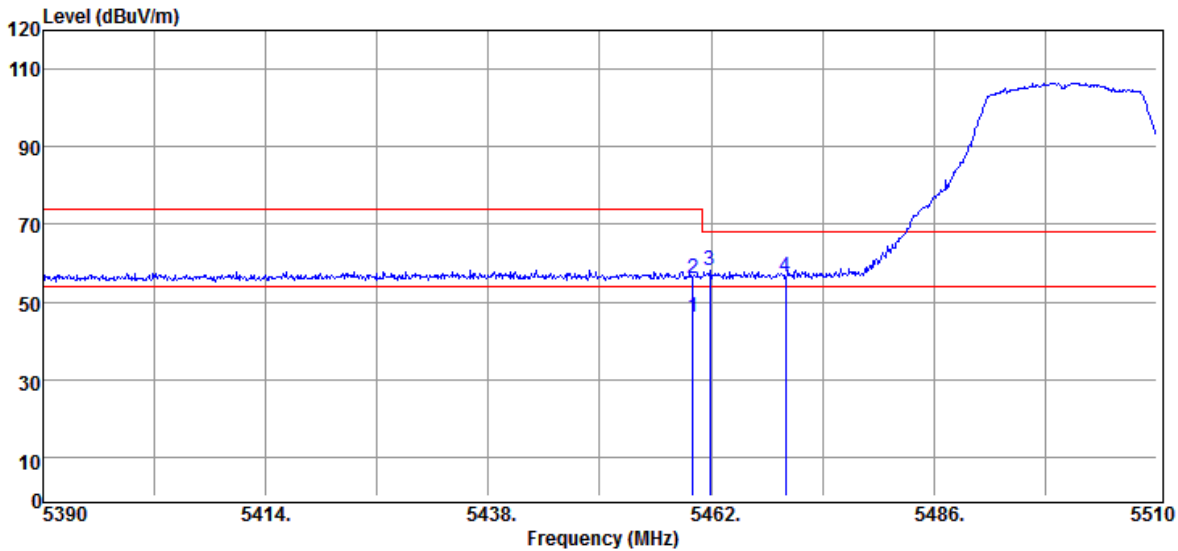
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5451.92	Average	32.48	14.30	46.78	54.00	-7.22
5451.92	Peak	45.53	14.30	59.83	74.00	-14.17
5460.00	Average	32.44	14.31	46.75	54.00	-7.25
5460.00	Peak	43.47	14.31	57.78	74.00	-16.22
5463.32	Peak	45.31	14.31	59.62	68.20	-8.58
5470.00	Peak	44.10	14.31	58.41	68.20	-9.79

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



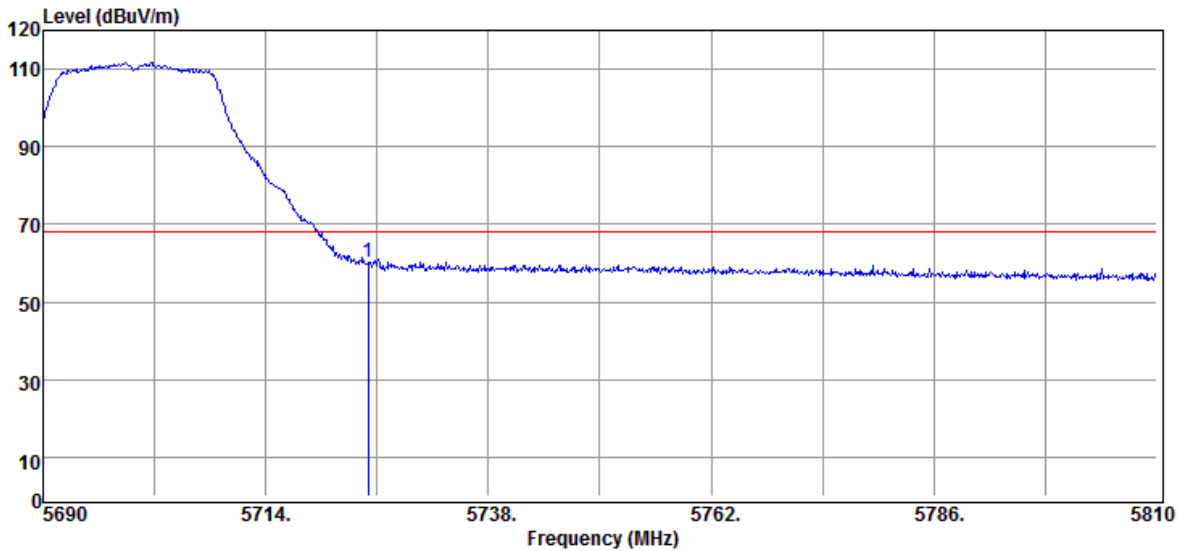
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5460.00	Average	31.88	14.31	46.19	54.00	-7.81
5460.00	Peak	41.91	14.31	56.22	74.00	-17.78
5461.88	Peak	43.66	14.31	57.97	68.20	-10.23
5470.00	Peak	42.29	14.31	56.60	68.20	-11.60

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



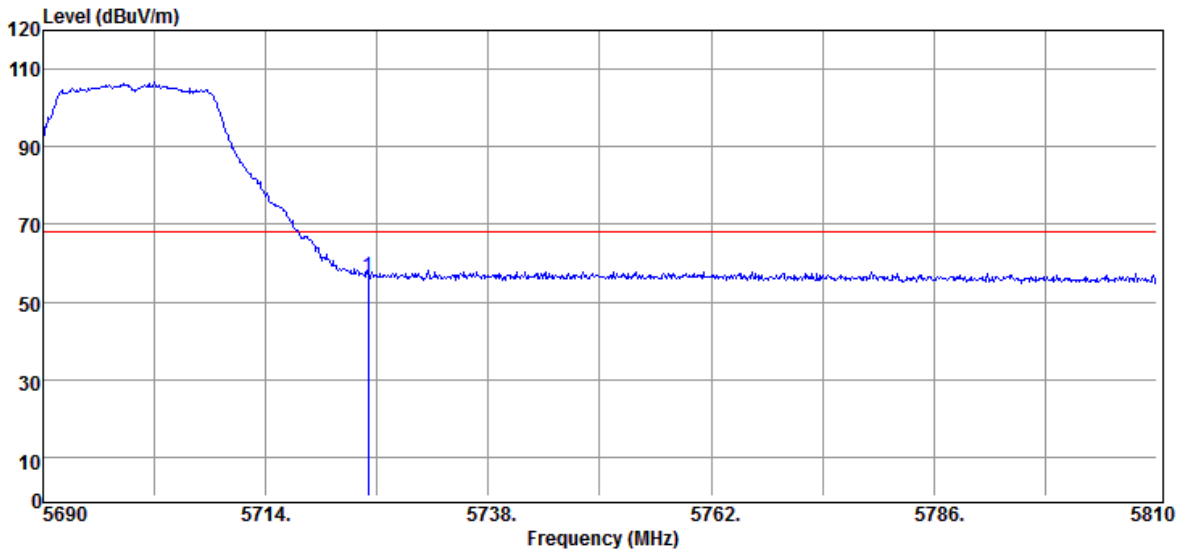
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	45.76	14.50	60.26	68.20	-7.94

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-08-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



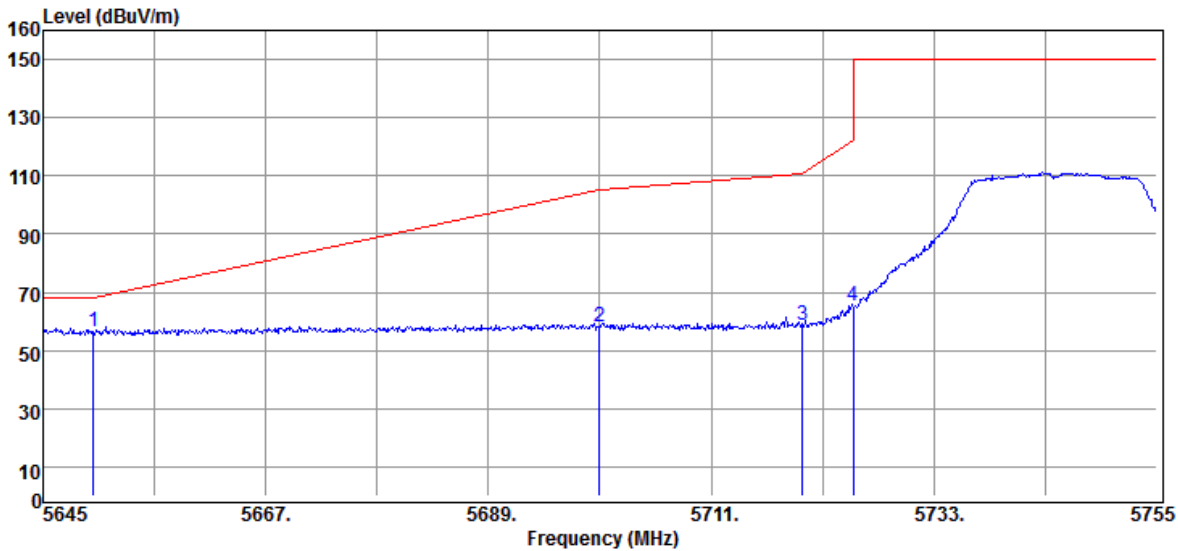
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	42.09	14.50	56.59	68.20	-11.61

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



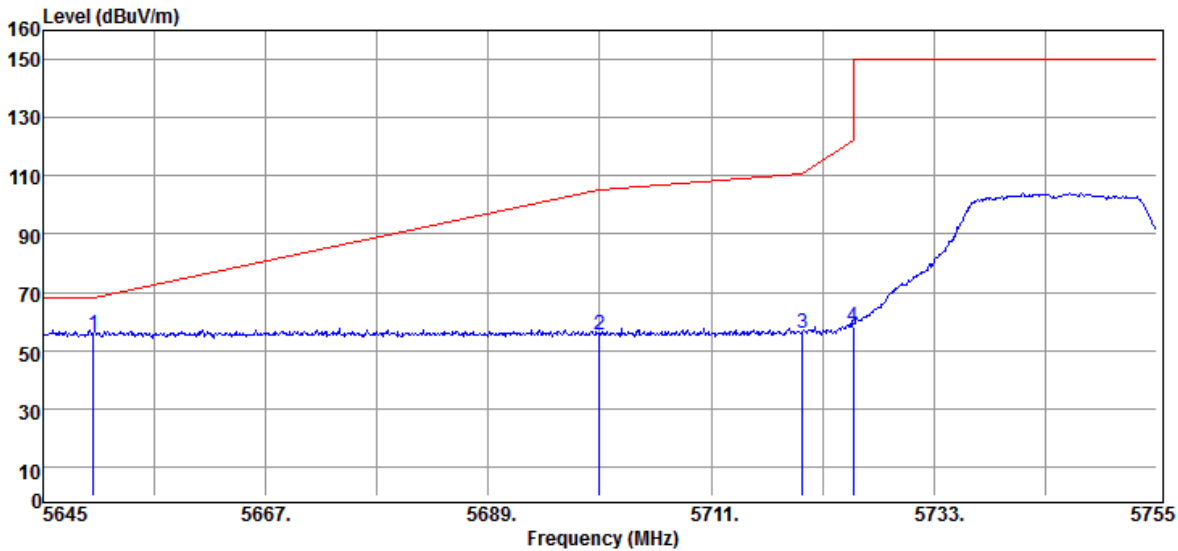
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	41.95	14.42	56.37	68.20	-11.83
5700.00	Peak	43.55	14.47	58.02	105.20	-47.18
5720.00	Peak	44.33	14.49	58.82	110.80	-51.98
5725.00	Peak	50.78	14.50	65.28	122.20	-56.92

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-08-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



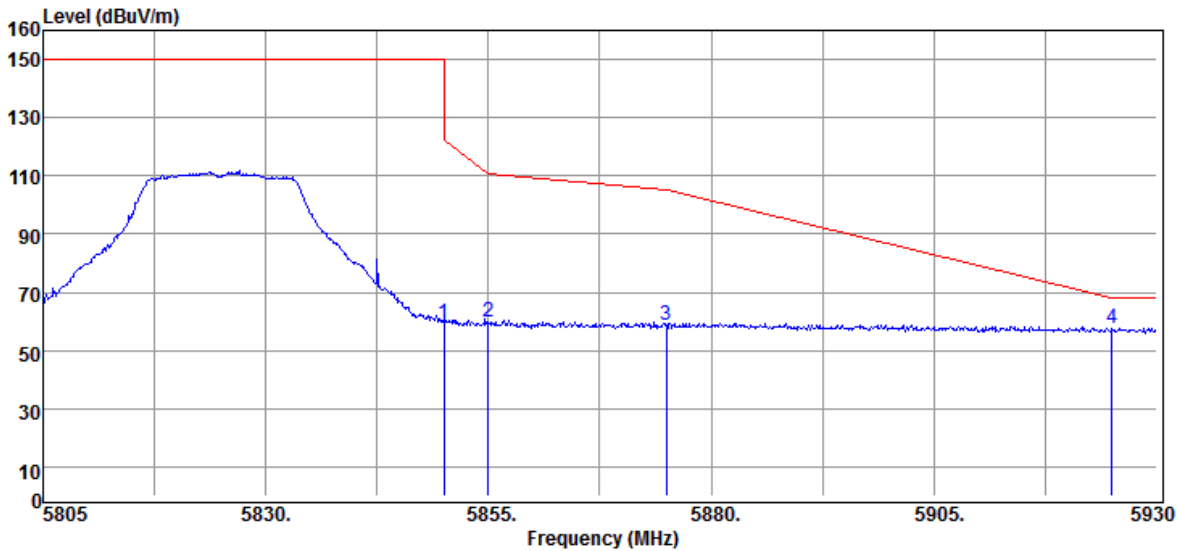
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	41.08	14.42	55.50	68.20	-12.70
5700.00	Peak	41.04	14.47	55.51	105.20	-49.69
5720.00	Peak	41.17	14.49	55.66	110.80	-55.14
5725.00	Peak	43.76	14.50	58.26	122.20	-63.94

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-08-29
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	44.28	14.72	59.00	122.20	-63.20
5855.00	Peak	44.89	14.73	59.62	110.80	-51.18
5875.00	Peak	43.78	14.78	58.56	105.20	-46.64
5925.00	Peak	42.43	14.91	57.34	68.20	-10.86

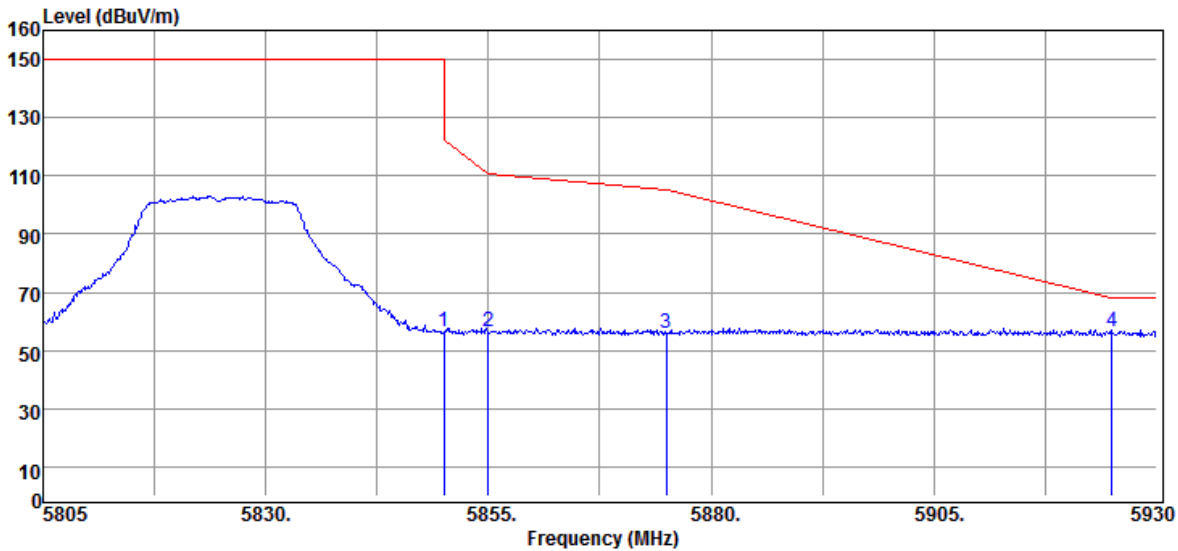
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Operation Mode :802.11n20 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan
 Test Channel :5825 MHz

Test Date :2018-08-28
 Temp./Humi. :24/69
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	41.62	14.72	56.34	122.20	-65.86
5855.00	Peak	41.68	14.73	56.41	110.80	-54.39
5875.00	Peak	41.20	14.78	55.98	105.20	-49.22
5925.00	Peak	41.62	14.91	56.53	68.20	-11.67

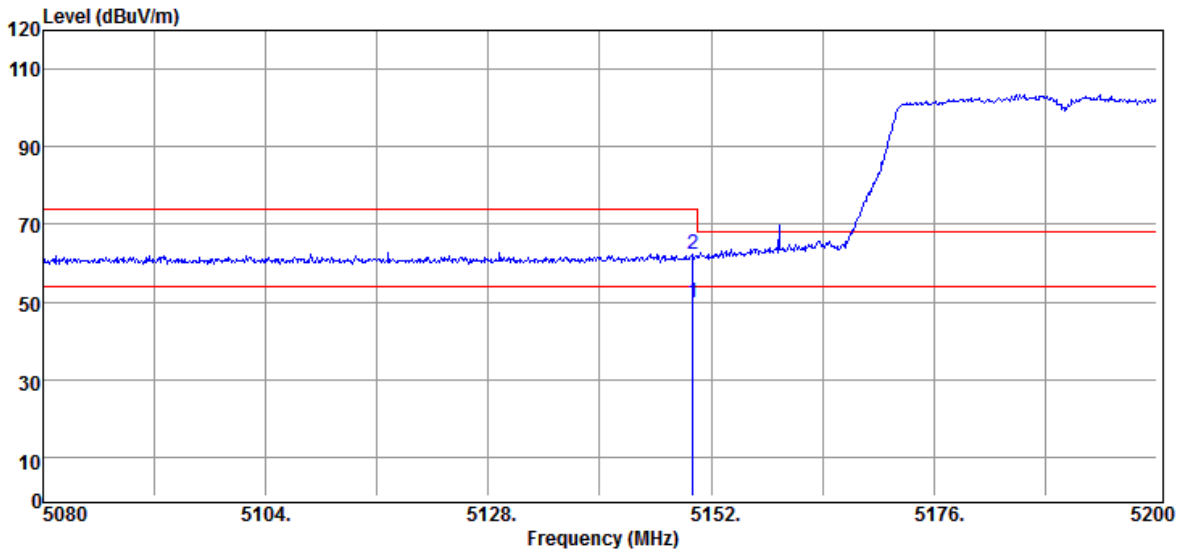
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802.11n40 HT mode

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Enzo



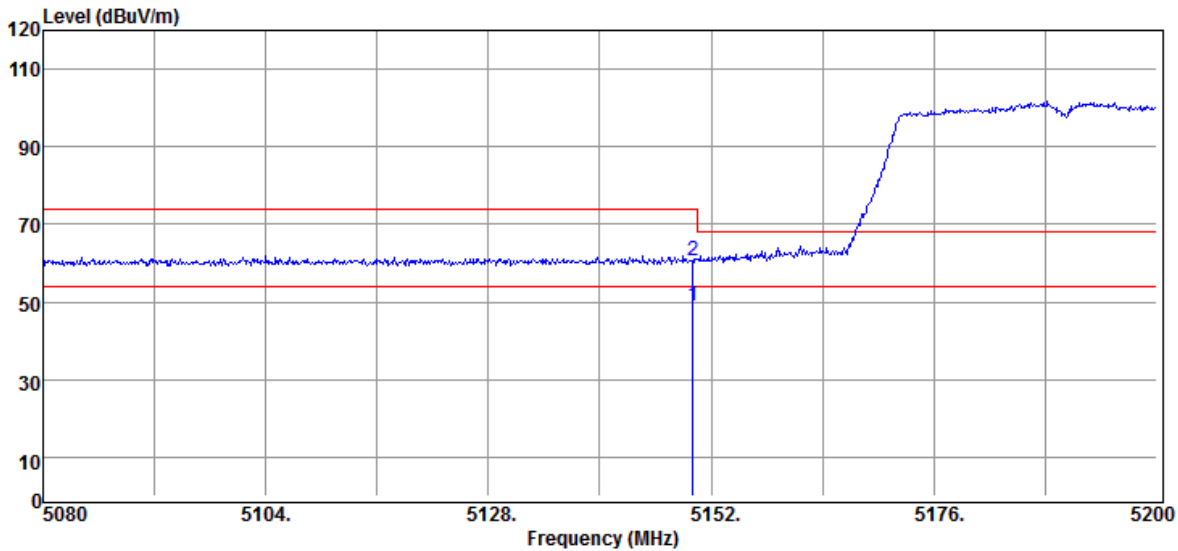
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	36.21	13.65	49.86	54.00	-4.14
5150.00	Peak	48.82	13.65	62.47	74.00	-11.53

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Enzo



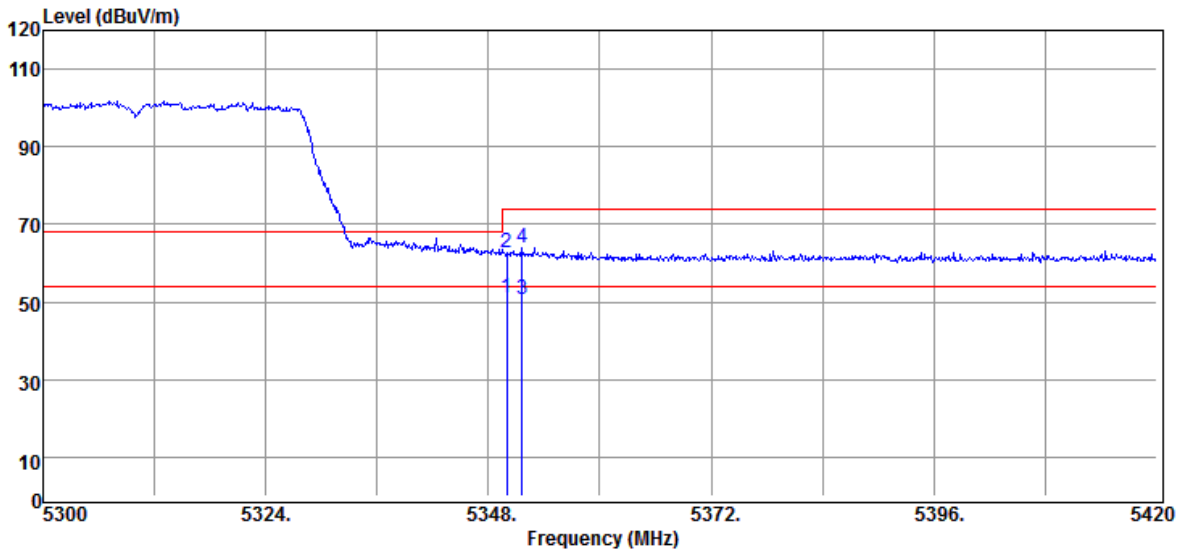
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	35.32	13.65	48.97	54.00	-5.03
5150.00	Peak	47.06	13.65	60.71	74.00	-13.29

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Enzo



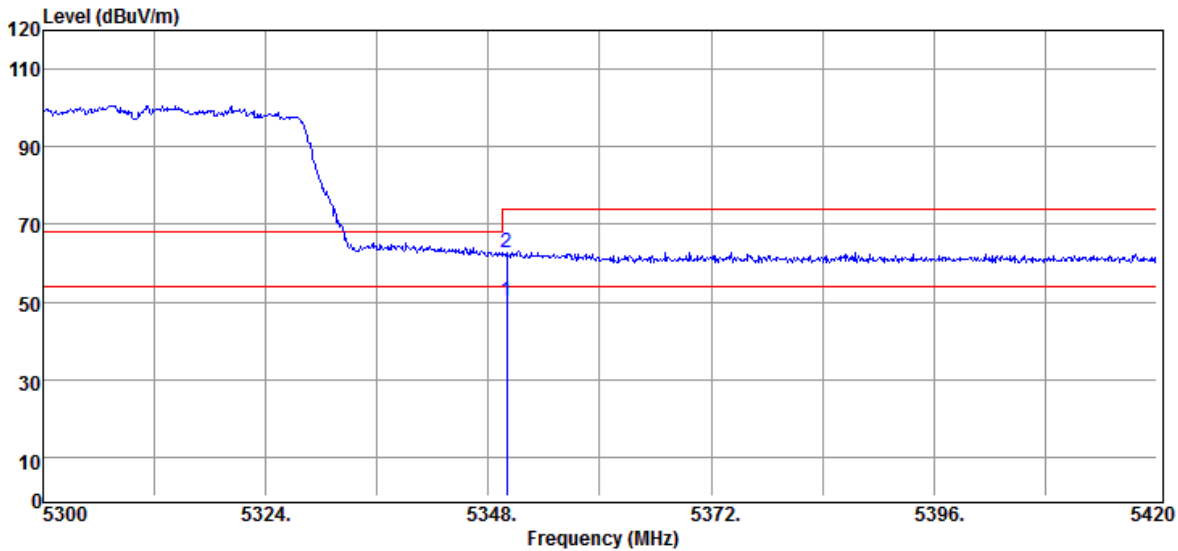
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	36.87	14.16	51.03	54.00	-2.97
5350.00	Peak	48.65	14.16	62.81	74.00	-11.19
5351.60	Average	36.38	14.17	50.55	54.00	-3.45
5351.60	Peak	49.74	14.17	63.91	74.00	-10.09

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Enzo



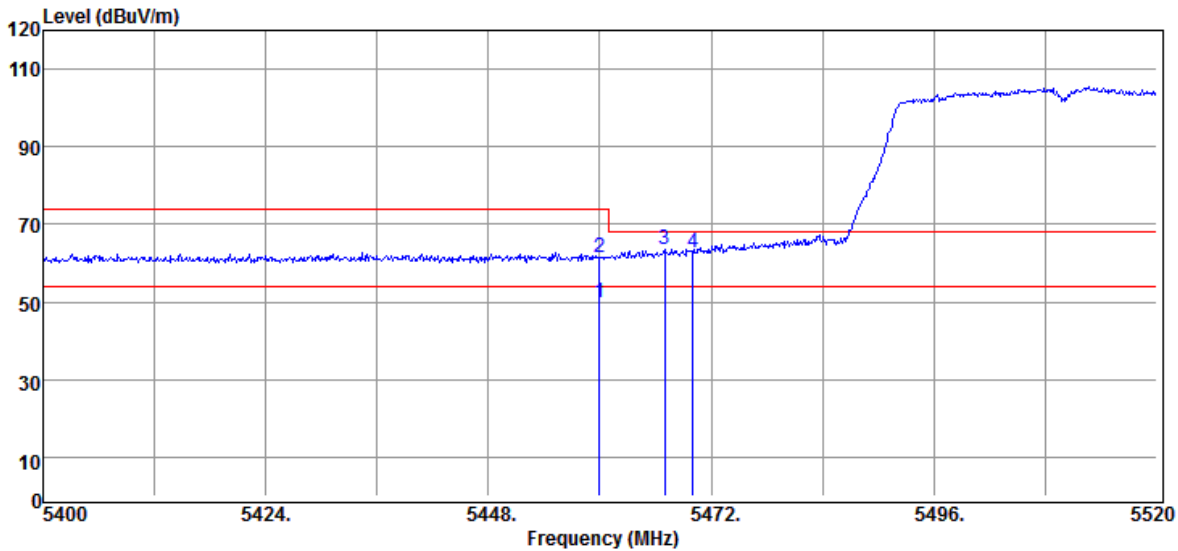
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	36.21	14.16	50.37	54.00	-3.63
5350.00	Peak	48.45	14.16	62.61	74.00	-11.39

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Enzo



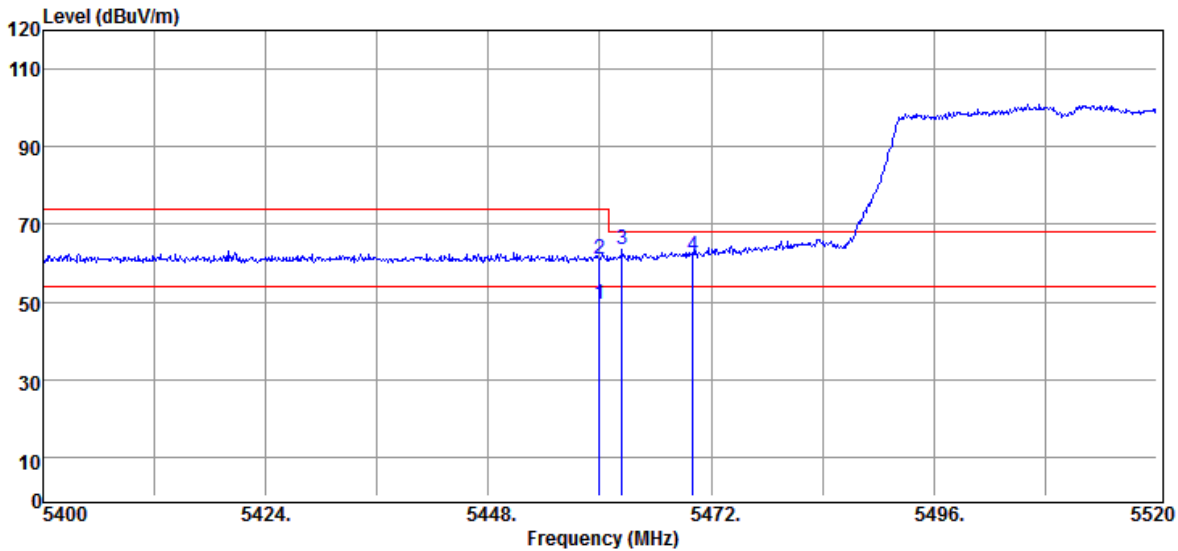
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	35.45	14.31	49.76	54.00	-4.24
5460.00	Peak	47.35	14.31	61.66	74.00	-12.34
5466.96	Peak	49.32	14.32	63.64	68.20	-4.56
5470.00	Peak	48.59	14.31	62.90	68.20	-5.30

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Enzo



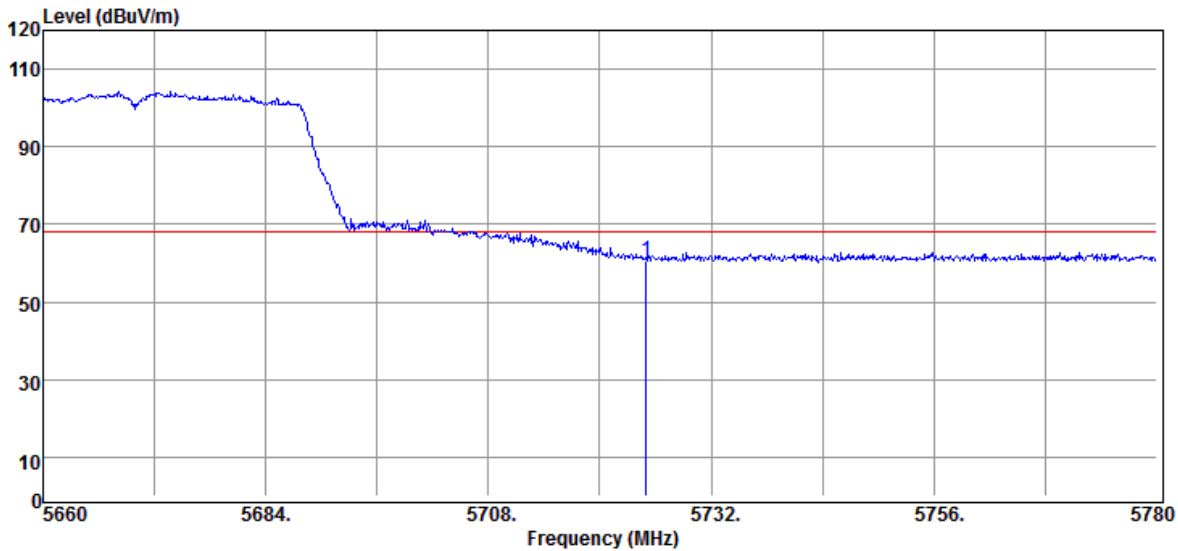
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5460.00	Average	35.23	14.31	49.54	54.00	-4.46
5460.00	Peak	46.81	14.31	61.12	74.00	-12.88
5462.40	Peak	49.25	14.32	63.57	68.20	-4.63
5470.00	Peak	47.49	14.31	61.80	68.20	-6.40

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Enzo



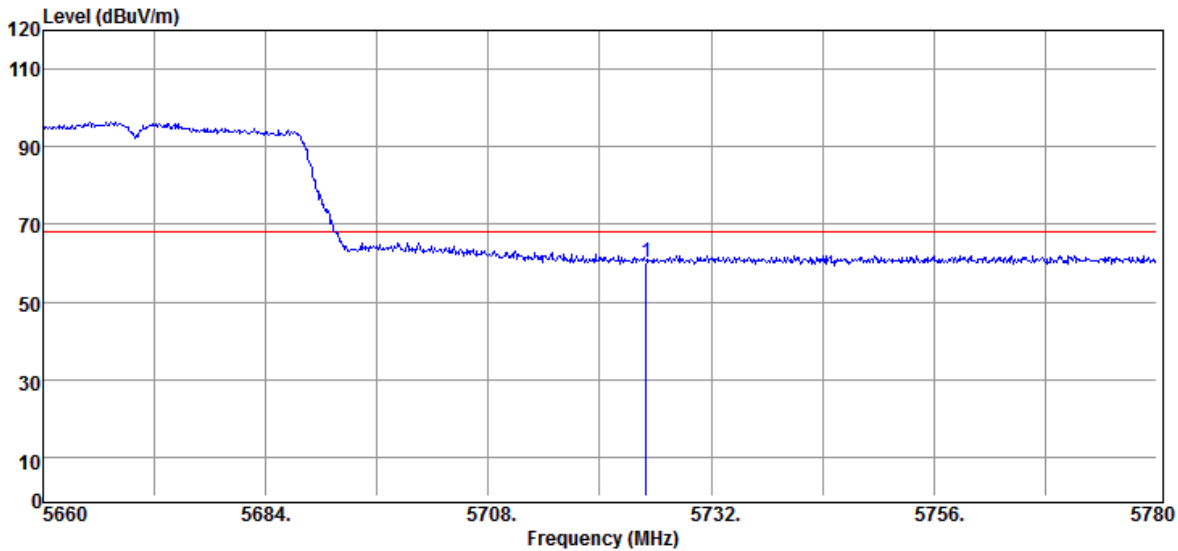
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	46.29	14.50	60.79	68.20	-7.41

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Enzo



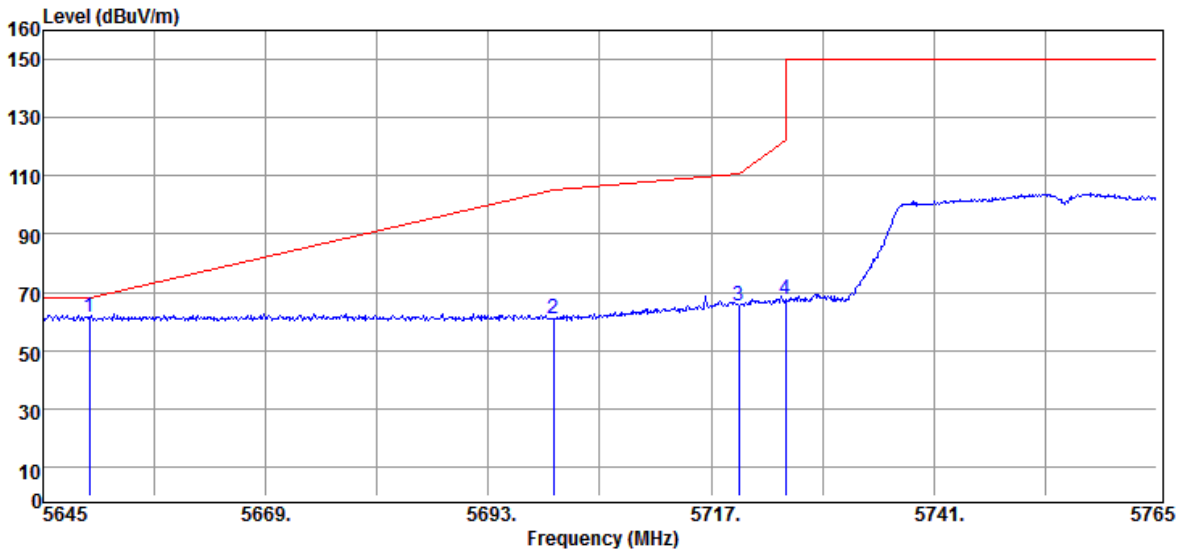
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	45.68	14.50	60.18	68.20	-8.02

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Enzo



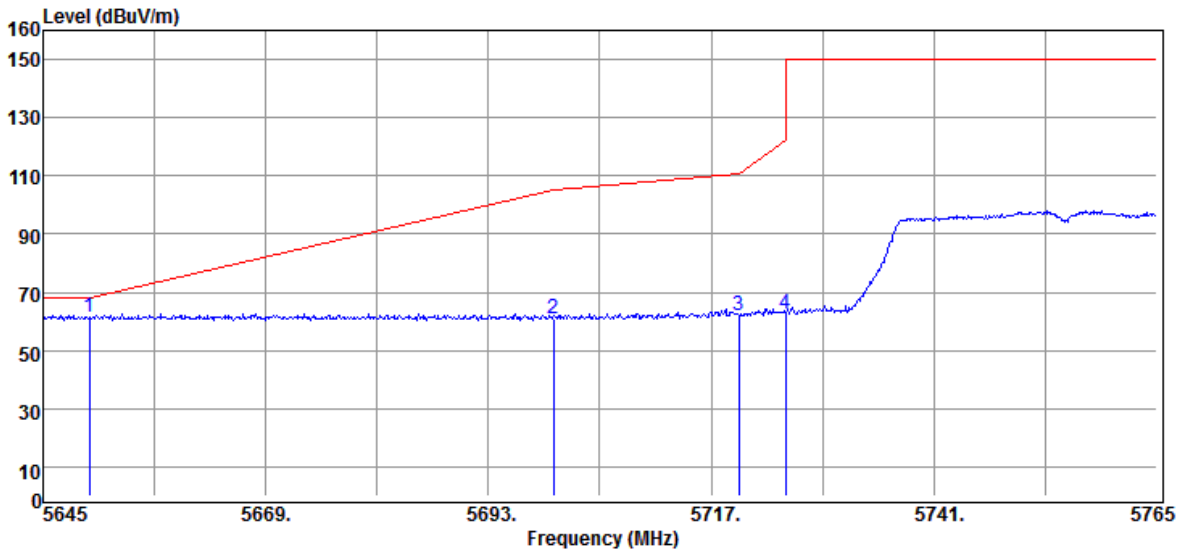
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	47.20	14.42	61.62	68.20	-6.58
5700.00	Peak	46.16	14.47	60.63	105.20	-44.57
5720.00	Peak	50.86	14.49	65.35	110.80	-45.45
5725.00	Peak	53.13	14.50	67.63	122.20	-54.57

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Enzo



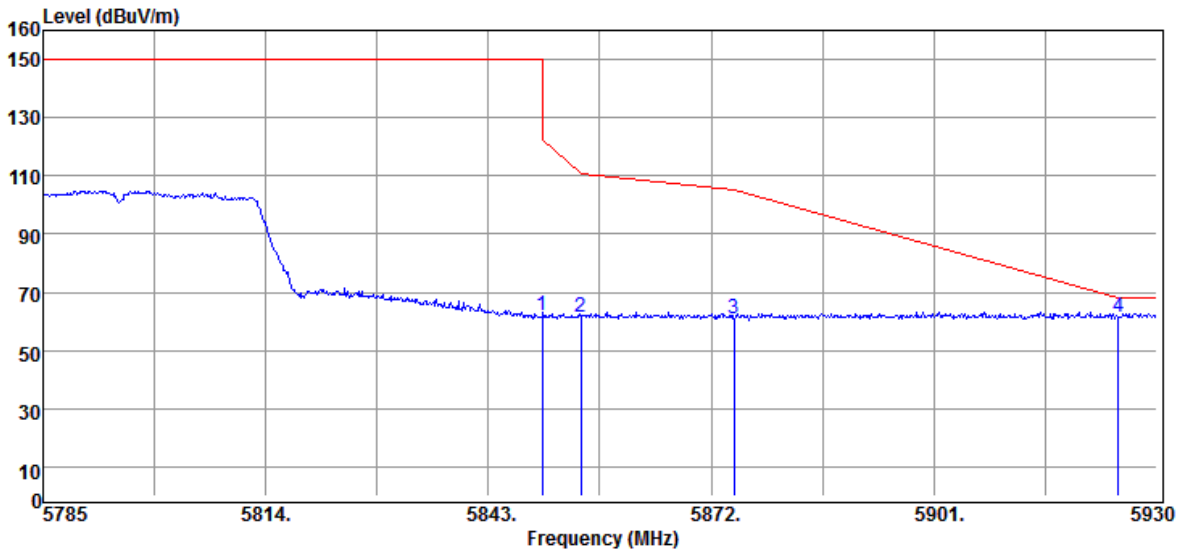
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	47.16	14.42	61.58	68.20	-6.62
5700.00	Peak	46.18	14.47	60.65	105.20	-44.55
5720.00	Peak	47.52	14.49	62.01	110.80	-48.79
5725.00	Peak	48.27	14.50	62.77	122.20	-59.43

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Enzo



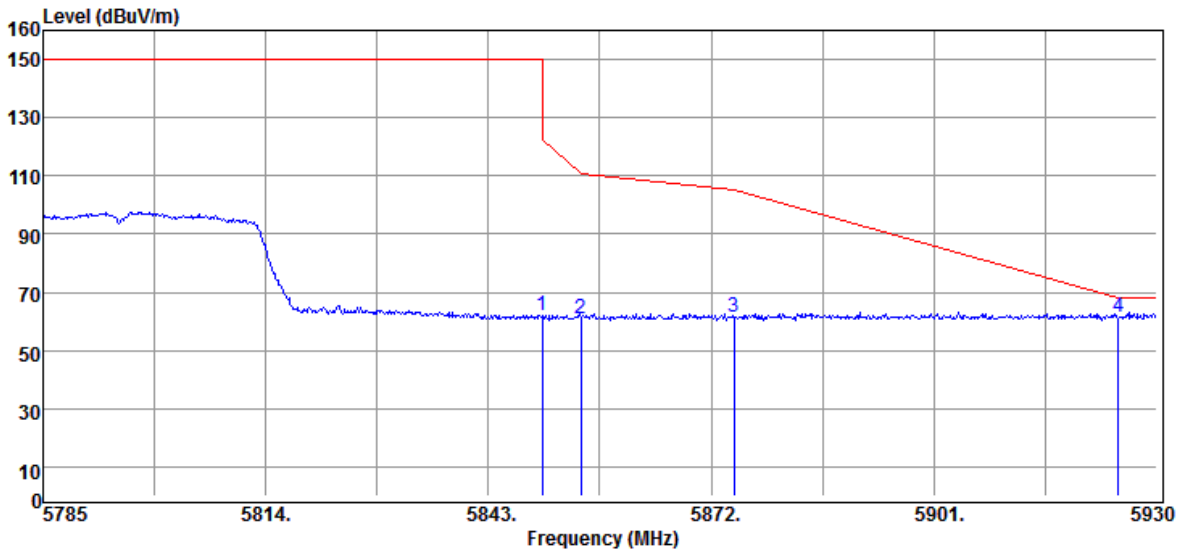
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	47.26	14.72	61.98	122.20	-60.22
5855.00	Peak	46.69	14.73	61.42	110.80	-49.38
5875.00	Peak	46.35	14.78	61.13	105.20	-44.07
5925.00	Peak	46.55	14.91	61.46	68.20	-6.74

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	47.13	14.72	61.85	122.20	-60.35
5855.00	Peak	46.35	14.73	61.08	110.80	-49.72
5875.00	Peak	46.50	14.78	61.28	105.20	-43.92
5925.00	Peak	46.74	14.91	61.65	68.20	-6.55

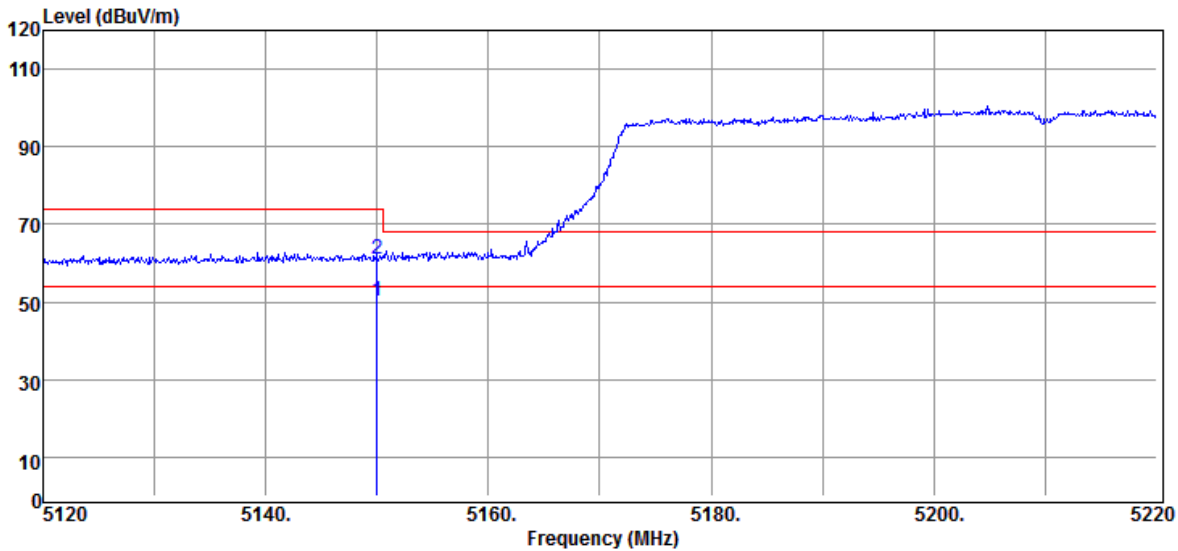
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802.11ac80 VHT mode

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



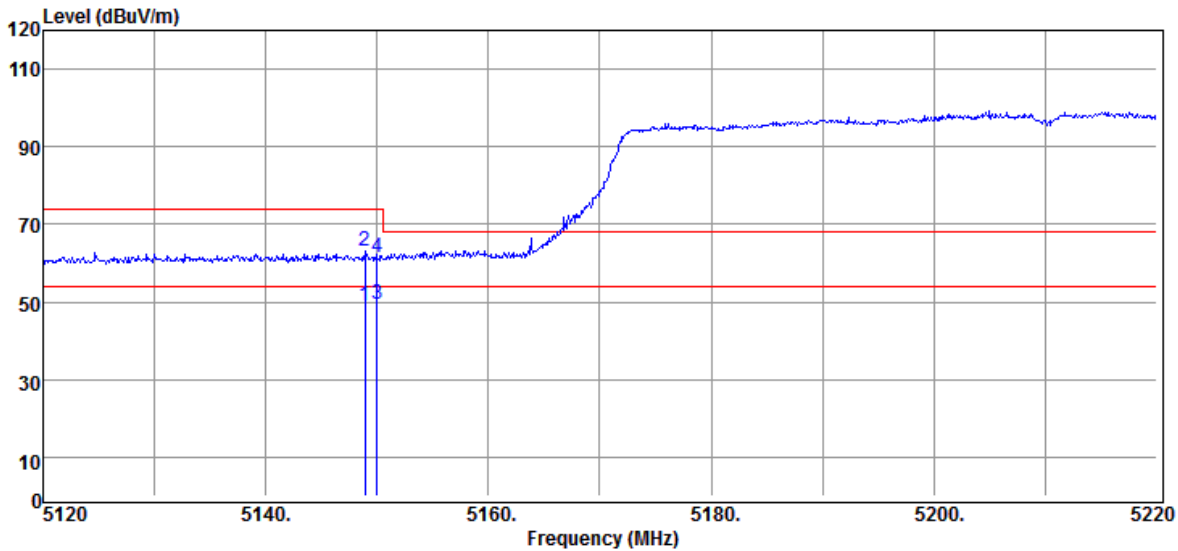
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	36.48	13.65	50.13	54.00	-3.87
5150.00	Peak	47.31	13.65	60.96	74.00	-13.04

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-09-03
Test Mode	:BE CH LOW	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Enzo



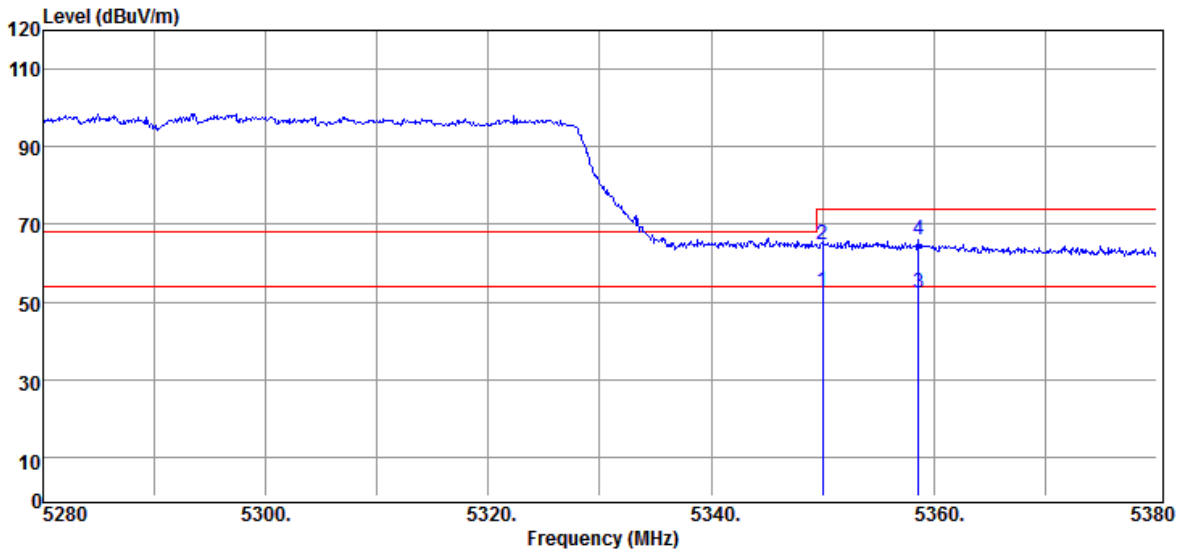
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5148.90	Average	35.33	13.63	48.96	54.00	-5.04
5148.90	Peak	49.54	13.63	63.17	74.00	-10.83
5150.00	Average	35.81	13.65	49.46	54.00	-4.54
5150.00	Peak	47.80	13.65	61.45	74.00	-12.55

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



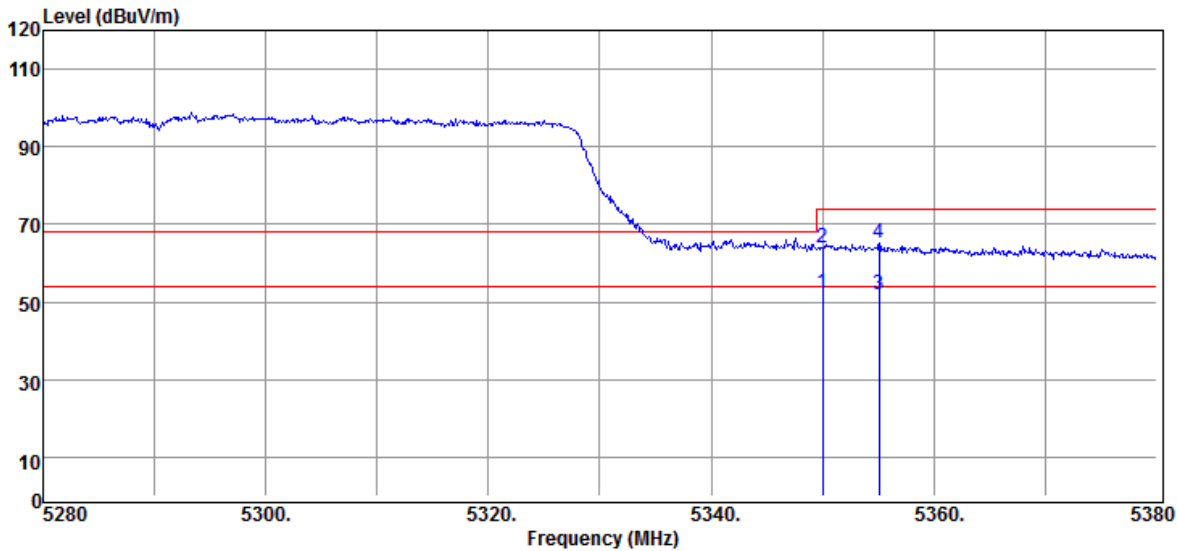
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	38.68	14.16	52.84	54.00	-1.16
5350.00	Peak	50.56	14.16	64.72	74.00	-9.28
5358.60	Average	38.22	14.18	52.40	54.00	-1.60
5358.60	Peak	51.69	14.18	65.87	74.00	-8.13

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	38.35	14.16	52.51	54.00	-1.49
5350.00	Peak	49.64	14.16	63.80	74.00	-10.20
5355.10	Average	37.82	14.18	52.00	54.00	-2.00
5355.10	Peak	51.15	14.18	65.33	74.00	-8.67

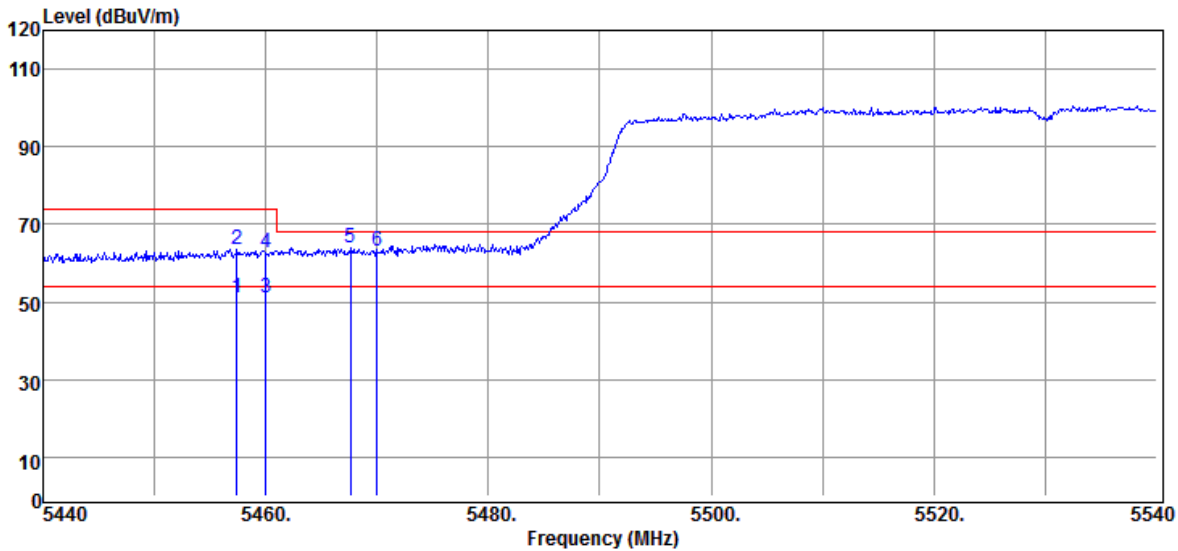
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Operation Mode :802.11ac80 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan
 Test Channel :5530 MHz

Test Date :2018-09-03
 Temp./Humi. :24/69
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5457.40	Average	36.61	14.31	50.92	54.00	-3.08
5457.40	Peak	49.24	14.31	63.55	74.00	-10.45
5460.00	Average	36.67	14.31	50.98	54.00	-3.02
5460.00	Peak	48.46	14.31	62.77	74.00	-11.23
5467.60	Peak	49.76	14.32	64.08	68.20	-4.12
5470.00	Peak	48.67	14.31	62.98	68.20	-5.22

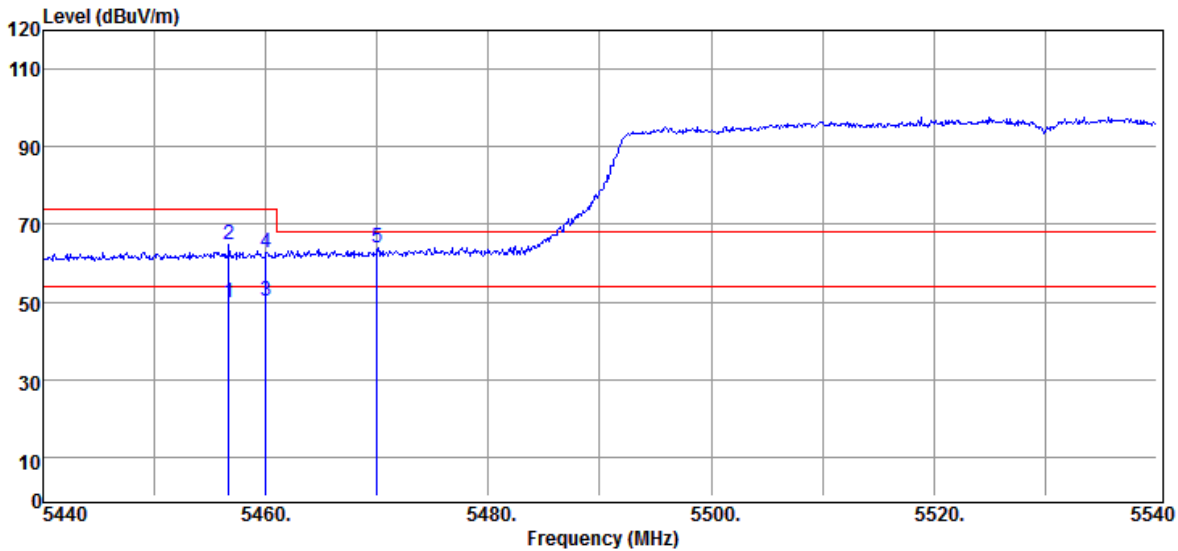
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Operation Mode :802.11ac80 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan
 Test Channel :5530 MHz

Test Date :2018-09-03
 Temp./Humi. :24/69
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5456.70	Average	35.55	14.31	49.86	54.00	-4.14
5456.70	Peak	50.27	14.31	64.58	74.00	-9.42
5460.00	Average	35.82	14.31	50.13	54.00	-3.87
5460.00	Peak	48.22	14.31	62.53	74.00	-11.47
5470.00	Peak	49.72	14.31	64.03	68.20	-4.17

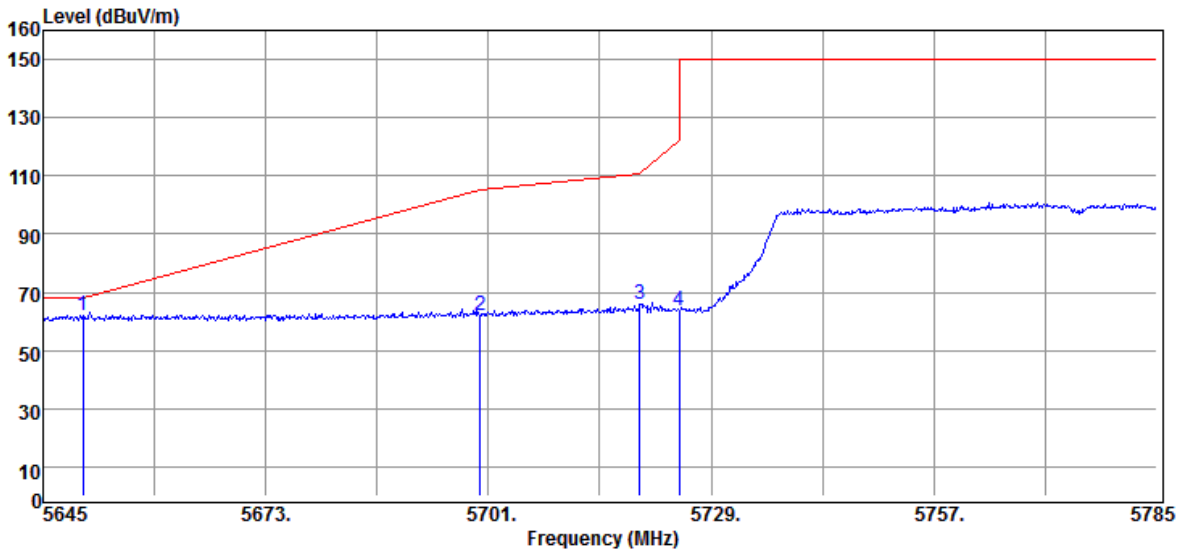
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Operation Mode :802.11ac80 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan
 Test Channel :5775 MHz

Test Date :2018-09-03
 Temp./Humi. :24/69
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	47.49	14.42	61.91	68.20	-6.29
5700.00	Peak	47.63	14.47	62.10	105.20	-43.10
5720.00	Peak	51.46	14.49	65.95	110.80	-44.85
5725.00	Peak	49.42	14.50	63.92	122.20	-58.28

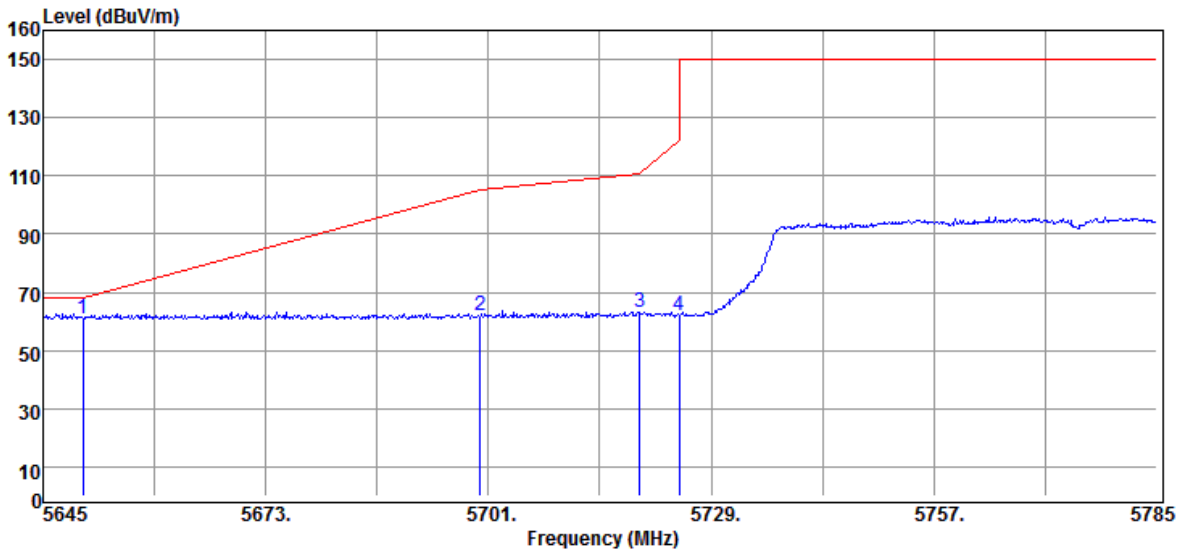
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Operation Mode :802.11ac80 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan
 Test Channel :5775 MHz

Test Date :2018-09-03
 Temp./Humi. :24/69
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



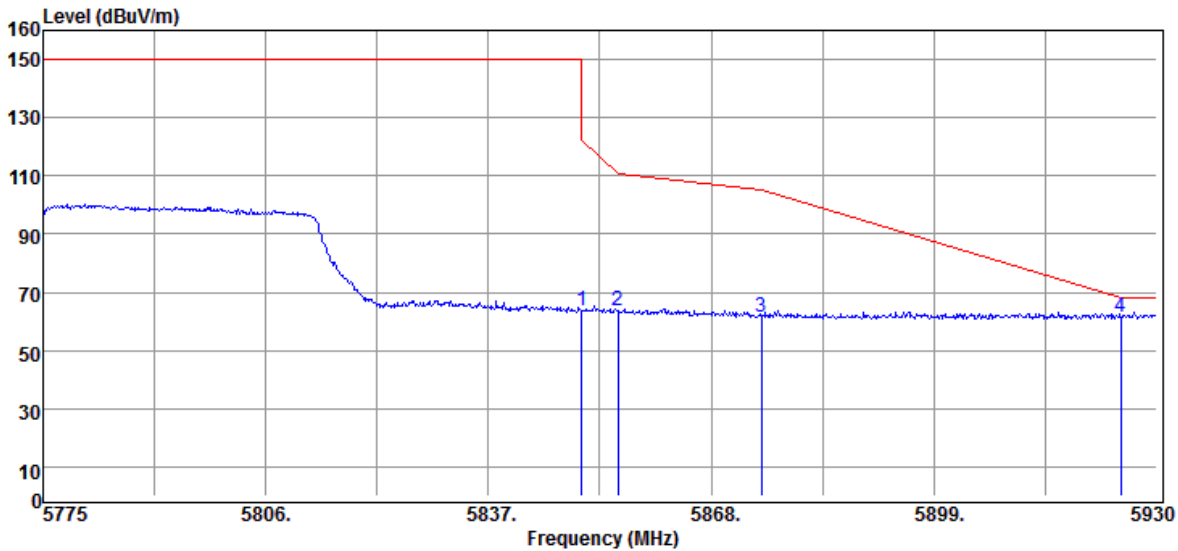
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	46.50	14.42	60.92	68.20	-7.28
5700.00	Peak	47.32	14.47	61.79	105.20	-43.41
5720.00	Peak	48.60	14.49	63.09	110.80	-47.71
5725.00	Peak	47.56	14.50	62.06	122.20	-60.14

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



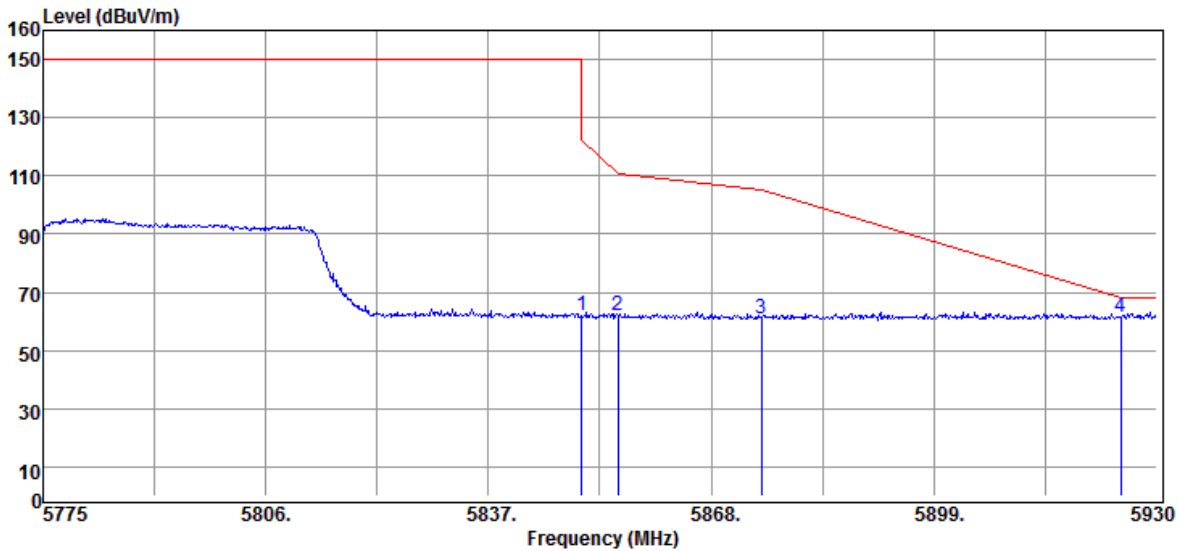
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	48.73	14.72	63.45	122.20	-58.75
5855.00	Peak	48.88	14.73	63.61	110.80	-47.19
5875.00	Peak	46.78	14.78	61.56	105.20	-43.64
5925.00	Peak	46.73	14.91	61.64	68.20	-6.56

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-09-03
Test Mode	:BE CH HIGH	Temp./Humi.	:24/69
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	47.27	14.72	61.99	122.20	-60.21
5855.00	Peak	47.26	14.73	61.99	110.80	-48.81
5875.00	Peak	46.10	14.78	60.88	105.20	-44.32
5925.00	Peak	46.80	14.91	61.71	68.20	-6.49

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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

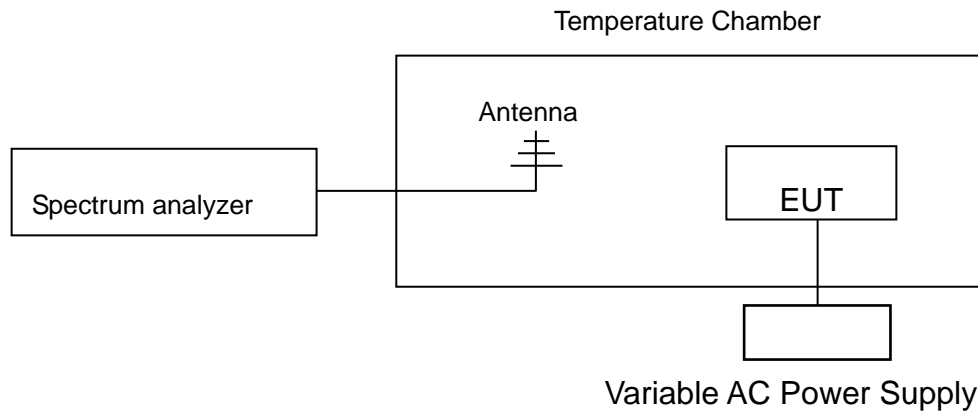
13.1 Standard Applicable

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	2019/06/19
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	36	5180	5,179.94060	0.00001147
		44	5220	5,219.94225	0.00001106
		48	5240	5,239.94323	0.00001083
		52	5260	5,259.94302	0.00001083
		60	5300	5,299.94271	0.00001081
		64	5320	5,319.94246	0.00001082
		100	5500	5,499.97424	0.00000468
		116	5580	5,579.94163	0.00001046
		140	5700	5,699.93966	0.00001059
		144	5720	5,719.94169	0.00001019
		149	5745	5,744.94011	0.00001042
		157	5785	5,784.97220	0.00000481
	165	5825	5,824.93974	0.00001034	
	3.4V	36	5180	5,179.94072	0.00001144
		44	5220	5,219.94270	0.00001098
		48	5240	5,239.94306	0.00001087
		52	5260	5,259.94242	0.00001095
		60	5300	5,299.94296	0.00001076
		64	5320	5,319.94277	0.00001076
		100	5500	5,499.97441	0.00000465
		116	5580	5,579.94118	0.00001054
		140	5700	5,699.93946	0.00001062
		144	5720	5,719.94157	0.00001022
		149	5745	5,744.94057	0.00001034
157		5785	5,784.97246	0.00000476	
165	5825	5,824.93962	0.00001036		

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25 °C	3.85V	36	5180	5,179.94149	0.00001130
		44	5220	5,219.94272	0.00001097
		48	5240	5,239.94377	0.00001073
		52	5260	5,259.94314	0.00001081
		60	5300	5,299.94300	0.00001075
		64	5320	5,319.94293	0.00001073
		100	5500	5,499.97449	0.00000464
		116	5580	5,579.94175	0.00001044
		140	5700	5,699.94036	0.00001046
		144	5720	5,719.94219	0.00001011
		149	5745	5,744.94085	0.00001030
		157	5785	5,784.97274	0.00000471
		165	5825	5,824.94006	0.00001029
55 °C	4.42V	36	5180	5,179.94064	0.00001146
		44	5220	5,219.94252	0.00001101
		48	5240	5,239.94302	0.00001087
		52	5260	5,259.94260	0.00001091
		60	5300	5,299.94217	0.00001091
		64	5320	5,319.94271	0.00001077
		100	5500	5,499.97404	0.00000472
		116	5580	5,579.94162	0.00001046
		140	5700	5,699.94017	0.00001050
		144	5720	5,719.94178	0.00001018
		149	5745	5,744.94065	0.00001033
		157	5785	5,784.97238	0.00000477
	165	5825	5,824.94002	0.00001030	
	3.4V	36	5180	5,179.94089	0.00001141
		44	5220	5,219.94225	0.00001106
		48	5240	5,239.94332	0.00001082
		52	5260	5,259.94262	0.00001091
		60	5300	5,299.94233	0.00001088
		64	5320	5,319.94275	0.00001076
		100	5500	5,499.97385	0.00000475
		116	5580	5,579.94101	0.00001057
		140	5700	5,699.93983	0.00001056
		144	5720	5,719.94136	0.00001025
		149	5745	5,744.93998	0.00001045
157		5785	5,784.97210	0.00000482	
165	5825	5,824.93928	0.00001042		

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Operation Mode	802.11 n_HT40	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	38	5190	5,189.94597	0.00001041
		46	5230	5,229.94519	0.00001048
		54	5270	5,269.91281	0.00001654
		62	5310	5,309.94523	0.00001031
		102	5510	5,509.94291	0.00001036
		110	5550	5,549.94102	0.00001063
		134	5670	5,669.93961	0.00001065
		142	5710	5,709.94179	0.00001019
		151	5755	5,754.93905	0.00001059
		159	5795	5,794.93902	0.00001052
	3.4V	38	5190	5,189.94588	0.00001043
		46	5230	5,229.94520	0.00001048
		54	5270	5,269.91264	0.00001658
		62	5310	5,309.94529	0.00001030
		102	5510	5,509.94250	0.00001044
		110	5550	5,549.94091	0.00001065
		134	5670	5,669.93977	0.00001062
		142	5710	5,709.94120	0.00001030
		151	5755	5,754.93842	0.00001070
		159	5795	5,794.93925	0.00001048

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25 °C	3.85V	38	5190	5,189.94630	0.00001035
		46	5230	5,229.94586	0.00001035
		54	5270	5,269.91296	0.00001652
		62	5310	5,309.94542	0.00001028
		102	5510	5,509.94298	0.00001035
		110	5550	5,549.94155	0.00001053
		134	5670	5,669.94045	0.00001050
		142	5710	5,709.94200	0.00001016
		151	5755	5,754.93928	0.00001055
		159	5795	5,794.93933	0.00001047
55 °C	4.42V	38	5190	5,189.94617	0.00001037
		46	5230	5,229.94578	0.00001037
		54	5270	5,269.91233	0.00001664
		62	5310	5,309.94469	0.00001042
		102	5510	5,509.94229	0.00001047
		110	5550	5,549.94076	0.00001067
		134	5670	5,669.93966	0.00001064
		142	5710	5,709.94126	0.00001029
		151	5755	5,754.93867	0.00001066
		159	5795	5,794.93864	0.00001059
	3.4V	38	5190	5,189.94582	0.00001044
		46	5230	5,229.94547	0.00001043
		54	5270	5,269.91276	0.00001655
		62	5310	5,309.94462	0.00001043
		102	5510	5,509.94254	0.00001043
		110	5550	5,549.94152	0.00001054
		134	5670	5,669.94026	0.00001054
		142	5710	5,709.94192	0.00001017
		151	5755	5,754.93872	0.00001065
		159	5795	5,794.93844	0.00001062

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)	
-10 °C	4.42V	42	5210	5,209.94459	0.00001064	
		58	5290	5,289.94486	0.00001042	
		106	5530	5,529.90849	0.00001655	
		122	5610	5,609.94082	0.00001055	
		138	5690	5,689.93930	0.00001067	
		155	5775	5,774.97152	0.00000493	
	3.4V	42	5210	5,209.94422	0.00001071	
		58	5290	5,289.94403	0.00001058	
		106	5530	5,529.90879	0.00001649	
		122	5610	5,609.94039	0.00001063	
		138	5690	5,689.93940	0.00001065	
		155	5775	5,774.97184	0.00000488	
	25 °C	3.85V	42	5210	5,209.94460	0.00001063
			58	5290	5,289.94490	0.00001042
106			5530	5,529.90914	0.00001643	
122			5610	5,609.94097	0.00001052	
138			5690	5,689.93985	0.00001057	
155			5775	5,774.97197	0.00000485	
55 °C	4.42V	42	5210	5,209.94458	0.00001064	
		58	5290	5,289.94446	0.00001050	
		106	5530	5,529.90858	0.00001653	
		122	5610	5,609.94086	0.00001054	
		138	5690	5,689.93918	0.00001069	
		155	5775	5,774.97166	0.00000491	
	3.4V	42	5210	5,209.94446	0.00001066	
		58	5290	5,289.94472	0.00001045	
		106	5530	5,529.90855	0.00001654	
		122	5610	5,609.94060	0.00001059	
		138	5690	5,689.93927	0.00001067	
		155	5775	5,774.97108	0.00000501	

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	36	5180	5,179.94121	0.00001135
		44	5220	5,219.94232	0.00001105
		48	5240	5,239.94310	0.00001086
		52	5260	5,259.94263	0.00001091
		60	5300	5,299.94263	0.00001082
		64	5320	5,319.94260	0.00001079
		100	5500	5,499.97362	0.00000480
		116	5580	5,579.94134	0.00001051
		140	5700	5,699.93967	0.00001058
		144	5720	5,719.94131	0.00001026
		149	5745	5,744.94061	0.00001034
		157	5785	5,784.97238	0.00000477
		165	5825	5,824.93955	0.00001038
	3.4V	36	5180	5,179.94076	0.00001144
		44	5220	5,219.94220	0.00001107
		48	5240	5,239.94292	0.00001089
		52	5260	5,259.94300	0.00001084
		60	5300	5,299.94235	0.00001088
		64	5320	5,319.94265	0.00001078
		100	5500	5,499.97392	0.00000474
		116	5580	5,579.94125	0.00001053
		140	5700	5,699.93973	0.00001057
		144	5720	5,719.94176	0.00001018
		149	5745	5,744.94042	0.00001037
		157	5785	5,784.97252	0.00000475
		165	5825	5,824.93917	0.00001044

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25 °C	3.85V	36	5180	5,179.94096	0.00001140
		44	5220	5,219.94190	0.00001113
		48	5240	5,239.94314	0.00001085
		52	5260	5,259.94225	0.00001098
		60	5300	5,299.94285	0.00001078
		64	5320	5,319.94248	0.00001081
		100	5500	5,499.97441	0.00000465
		116	5580	5,579.94118	0.00001054
		140	5700	5,699.94000	0.00001053
		144	5720	5,719.94195	0.00001015
		149	5745	5,744.94077	0.00001031
		157	5785	5,784.97207	0.00000483
		165	5825	5,824.93974	0.00001034
55 °C	4.42V	36	5180	5,179.94109	0.00001137
		44	5220	5,219.94239	0.00001104
		48	5240	5,239.94317	0.00001085
		52	5260	5,259.94226	0.00001098
		60	5300	5,299.94257	0.00001084
		64	5320	5,319.94276	0.00001076
		100	5500	5,499.97364	0.00000479
		116	5580	5,579.94121	0.00001054
		140	5700	5,699.93950	0.00001061
		144	5720	5,719.94196	0.00001015
		149	5745	5,744.94030	0.00001039
		157	5785	5,784.97184	0.00000487
	165	5825	5,824.93990	0.00001032	
	3.4V	36	5180	5,179.94077	0.00001143
		44	5220	5,219.94256	0.00001100
		48	5240	5,239.94289	0.00001090
		52	5260	5,259.94308	0.00001082
		60	5300	5,299.94232	0.00001088
		64	5320	5,319.94287	0.00001074
		100	5500	5,499.97421	0.00000469
		116	5580	5,579.94150	0.00001048
		140	5700	5,699.94015	0.00001050
		144	5720	5,719.94148	0.00001023
		149	5745	5,744.94044	0.00001037
157		5785	5,784.97198	0.00000484	
165	5825	5,824.93999	0.00001030		

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Operation Mode	802.11 n_HT40	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	38	5190	5,189.94562	0.00001048
		46	5230	5,229.94507	0.00001050
		54	5270	5,269.91281	0.00001654
		62	5310	5,309.94507	0.00001034
		102	5510	5,509.94279	0.00001038
		110	5550	5,549.94140	0.00001056
		134	5670	5,669.94034	0.00001052
		142	5710	5,709.94160	0.00001023
		151	5755	5,754.93849	0.00001069
		159	5795	5,794.93868	0.00001058
	3.4V	38	5190	5,189.94560	0.00001048
		46	5230	5,229.94507	0.00001050
		54	5270	5,269.91236	0.00001663
		62	5310	5,309.94516	0.00001033
		102	5510	5,509.94215	0.00001050
		110	5550	5,549.94066	0.00001069
		134	5670	5,669.93968	0.00001064
		142	5710	5,709.94130	0.00001028
		151	5755	5,754.93918	0.00001057
		159	5795	5,794.93929	0.00001048

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25 °C	3.85V	38	5190	5,189.94572	0.00001046
		46	5230	5,229.94541	0.00001044
		54	5270	5,269.91209	0.00001668
		62	5310	5,309.94536	0.00001029
		102	5510	5,509.94285	0.00001037
		110	5550	5,549.94098	0.00001063
		134	5670	5,669.93976	0.00001062
		142	5710	5,709.94174	0.00001020
		151	5755	5,754.93843	0.00001070
55 °C	4.42V	159	5795	5,794.93850	0.00001061
		38	5190	5,189.94579	0.00001045
		46	5230	5,229.94534	0.00001045
		54	5270	5,269.91219	0.00001666
		62	5310	5,309.94464	0.00001043
		102	5510	5,509.94285	0.00001037
		110	5550	5,549.94126	0.00001058
		134	5670	5,669.94037	0.00001052
		142	5710	5,709.94132	0.00001028
	3.4V	151	5755	5,754.93904	0.00001059
		159	5795	5,794.93865	0.00001059
		38	5190	5,189.94587	0.00001043
		46	5230	5,229.94526	0.00001047
		54	5270	5,269.91211	0.00001668
		62	5310	5,309.94455	0.00001044
		102	5510	5,509.94291	0.00001036
		110	5550	5,549.94070	0.00001068
		134	5670	5,669.94009	0.00001057
142	5710	5,709.94113	0.00001031		
151	5755	5,754.93850	0.00001069		
159	5795	5,794.93886	0.00001055		

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)	
-10 °C	4.42V	42	5210	5,209.94454	0.00001064	
		58	5290	5,289.94404	0.00001058	
		106	5530	5,529.90835	0.00001657	
		122	5610	5,609.94079	0.00001055	
		138	5690	5,689.93921	0.00001068	
		155	5775	5,774.97145	0.00000494	
	3.4V	42	5210	5,209.94450	0.00001065	
		58	5290	5,289.94451	0.00001049	
		106	5530	5,529.90827	0.00001659	
		122	5610	5,609.94015	0.00001067	
		138	5690	5,689.93929	0.00001067	
		155	5775	5,774.97119	0.00000499	
	25 °C	3.85V	42	5210	5,209.94408	0.00001073
			58	5290	5,289.94434	0.00001052
106			5530	5,529.90883	0.00001649	
122			5610	5,609.94015	0.00001067	
138			5690	5,689.93946	0.00001064	
155			5775	5,774.97111	0.00000500	
55 °C	4.42V	42	5210	5,209.94446	0.00001066	
		58	5290	5,289.94410	0.00001057	
		106	5530	5,529.90900	0.00001646	
		122	5610	5,609.94056	0.00001060	
		138	5690	5,689.93975	0.00001059	
		155	5775	5,774.97114	0.00000500	
	3.4V	42	5210	5,209.94399	0.00001075	
		58	5290	5,289.94467	0.00001046	
		106	5530	5,529.90892	0.00001647	
		122	5610	5,609.94063	0.00001058	
		138	5690	5,689.93976	0.00001059	
		155	5775	5,774.97113	0.00000500	

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	36	5180	5,179.94123	0.00001135
		44	5220	5,219.94186	0.00001114
		48	5240	5,239.94334	0.00001081
		52	5260	5,259.94242	0.00001095
		60	5300	5,299.94258	0.00001083
		64	5320	5,319.94267	0.00001078
		100	5500	5,499.97399	0.00000473
		116	5580	5,579.94136	0.00001051
		140	5700	5,699.93954	0.00001061
		144	5720	5,719.94168	0.00001020
		149	5745	5,744.93998	0.00001045
		157	5785	5,784.97233	0.00000478
	165	5825	5,824.93977	0.00001034	
	3.4V	36	5180	5,179.94111	0.00001137
		44	5220	5,219.94213	0.00001109
		48	5240	5,239.94336	0.00001081
		52	5260	5,259.94251	0.00001093
		60	5300	5,299.94274	0.00001080
		64	5320	5,319.94256	0.00001080
		100	5500	5,499.97386	0.00000475
		116	5580	5,579.94091	0.00001059
		140	5700	5,699.94003	0.00001052
		144	5720	5,719.94182	0.00001017
		149	5745	5,744.94077	0.00001031
157		5785	5,784.97246	0.00000476	
165	5825	5,824.93969	0.00001035		

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25 °C	3.85V	36	5180	5,179.94081	0.00001143
		44	5220	5,219.94217	0.00001108
		48	5240	5,239.94335	0.00001081
		52	5260	5,259.94231	0.00001097
		60	5300	5,299.94263	0.00001083
		64	5320	5,319.94223	0.00001086
		100	5500	5,499.97441	0.00000465
		116	5580	5,579.94107	0.00001056
		140	5700	5,699.93989	0.00001054
		144	5720	5,719.94178	0.00001018
		149	5745	5,744.94006	0.00001043
		157	5785	5,784.97240	0.00000477
		165	5825	5,824.93960	0.00001037
55 °C	4.42V	36	5180	5,179.94119	0.00001135
		44	5220	5,219.94218	0.00001108
		48	5240	5,239.94312	0.00001085
		52	5260	5,259.94259	0.00001092
		60	5300	5,299.94274	0.00001080
		64	5320	5,319.94231	0.00001084
		100	5500	5,499.97417	0.00000470
		116	5580	5,579.94151	0.00001048
		140	5700	5,699.93975	0.00001057
		144	5720	5,719.94185	0.00001017
		149	5745	5,744.94061	0.00001034
		157	5785	5,784.97270	0.00000472
	165	5825	5,824.93923	0.00001043	
	3.4V	36	5180	5,179.94071	0.00001145
		44	5220	5,219.94211	0.00001109
		48	5240	5,239.94306	0.00001087
		52	5260	5,259.94286	0.00001086
		60	5300	5,299.94289	0.00001078
		64	5320	5,319.94246	0.00001082
		100	5500	5,499.97413	0.00000470
		116	5580	5,579.94117	0.00001054
		140	5700	5,699.94006	0.00001052
		144	5720	5,719.94156	0.00001022
		149	5745	5,744.94018	0.00001041
157		5785	5,784.97207	0.00000483	
165	5825	5,824.93939	0.00001041		

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Operation Mode	802.11 n_HT40	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	38	5190	5,189.94573	0.00001046
		46	5230	5,229.94545	0.00001043
		54	5270	5,269.91282	0.00001654
		62	5310	5,309.94495	0.00001037
		102	5510	5,509.94250	0.00001044
		110	5550	5,549.94146	0.00001055
		134	5670	5,669.93999	0.00001058
		142	5710	5,709.94172	0.00001021
		151	5755	5,754.93925	0.00001056
		159	5795	5,794.93860	0.00001059
	3.4V	38	5190	5,189.94616	0.00001037
		46	5230	5,229.94563	0.00001040
		54	5270	5,269.91287	0.00001653
		62	5310	5,309.94462	0.00001043
		102	5510	5,509.94265	0.00001041
		110	5550	5,549.94084	0.00001066
		134	5670	5,669.94032	0.00001053
		142	5710	5,709.94152	0.00001024
		151	5755	5,754.93848	0.00001069
		159	5795	5,794.93880	0.00001056

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25 °C	3.85V	38	5190	5,189.94592	0.00001042
		46	5230	5,229.94580	0.00001036
		54	5270	5,269.91265	0.00001657
		62	5310	5,309.94506	0.00001035
		102	5510	5,509.94297	0.00001035
		110	5550	5,549.94124	0.00001059
		134	5670	5,669.93961	0.00001065
		142	5710	5,709.94194	0.00001017
		151	5755	5,754.93843	0.00001070
		159	5795	5,794.93848	0.00001062
55 °C	4.42V	38	5190	5,189.94592	0.00001042
		46	5230	5,229.94523	0.00001047
		54	5270	5,269.91255	0.00001659
		62	5310	5,309.94511	0.00001034
		102	5510	5,509.94294	0.00001036
		110	5550	5,549.94096	0.00001064
		134	5670	5,669.93992	0.00001060
		142	5710	5,709.94132	0.00001028
		151	5755	5,754.93878	0.00001064
		159	5795	5,794.93846	0.00001062
	3.4V	38	5190	5,189.94605	0.00001039
		46	5230	5,229.94558	0.00001041
		54	5270	5,269.91276	0.00001655
		62	5310	5,309.94506	0.00001035
		102	5510	5,509.94263	0.00001041
		110	5550	5,549.94077	0.00001067
		134	5670	5,669.94036	0.00001052
		142	5710	5,709.94133	0.00001027
		151	5755	5,754.93884	0.00001063
		159	5795	5,794.93927	0.00001048

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)	
-10 °C	4.42V	42	5210	5,209.94434	0.00001068	
		58	5290	5,289.94454	0.00001048	
		106	5530	5,529.90862	0.00001652	
		122	5610	5,609.94095	0.00001053	
		138	5690	5,689.93945	0.00001064	
		155	5775	5,774.97129	0.00000497	
	3.4V	42	5210	5,209.94428	0.00001070	
		58	5290	5,289.94457	0.00001048	
		106	5530	5,529.90893	0.00001647	
		122	5610	5,609.94016	0.00001067	
		138	5690	5,689.93966	0.00001060	
		155	5775	5,774.97182	0.00000488	
	25 °C	3.85V	42	5210	5,209.94412	0.00001073
			58	5290	5,289.94486	0.00001042
106			5530	5,529.90867	0.00001651	
122			5610	5,609.94044	0.00001062	
138			5690	5,689.93918	0.00001069	
155			5775	5,774.97184	0.00000488	
55 °C	4.42V	42	5210	5,209.94410	0.00001073	
		58	5290	5,289.94406	0.00001058	
		106	5530	5,529.90860	0.00001653	
		122	5610	5,609.94021	0.00001066	
		138	5690	5,689.93935	0.00001066	
		155	5775	5,774.97126	0.00000498	
	3.4V	42	5210	5,209.94384	0.00001078	
		58	5290	5,289.94437	0.00001052	
		106	5530	5,529.90824	0.00001659	
		122	5610	5,609.94018	0.00001066	
		138	5690	5,689.93973	0.00001059	
		155	5775	5,774.97185	0.00000487	

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	36	5180	5,179.94097	0.00001140
		44	5220	5,219.94182	0.00001115
		48	5240	5,239.94342	0.00001080
		52	5260	5,259.94279	0.00001088
		60	5300	5,299.94228	0.00001089
		64	5320	5,319.94260	0.00001079
		100	5500	5,499.97365	0.00000479
		116	5580	5,579.94129	0.00001052
		140	5700	5,699.93992	0.00001054
		144	5720	5,719.94216	0.00001011
		149	5745	5,744.94021	0.00001041
		157	5785	5,784.97249	0.00000476
	165	5825	5,824.93955	0.00001038	
	3.4V	36	5180	5,179.94074	0.00001144
		44	5220	5,219.94231	0.00001105
		48	5240	5,239.94306	0.00001087
		52	5260	5,259.94277	0.00001088
		60	5300	5,299.94241	0.00001087
		64	5320	5,319.94280	0.00001075
		100	5500	5,499.97438	0.00000466
		116	5580	5,579.94155	0.00001048
		140	5700	5,699.94018	0.00001050
		144	5720	5,719.94214	0.00001011
		149	5745	5,744.94075	0.00001031
157		5785	5,784.97255	0.00000474	
165	5825	5,824.93936	0.00001041		

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25 °C	3.85V	36	5180	5,179.94095	0.00001140
		44	5220	5,219.94258	0.00001100
		48	5240	5,239.94348	0.00001079
		52	5260	5,259.94285	0.00001086
		60	5300	5,299.94292	0.00001077
		64	5320	5,319.94234	0.00001084
		100	5500	5,499.97434	0.00000467
		116	5580	5,579.94101	0.00001057
		140	5700	5,699.94021	0.00001049
		144	5720	5,719.94179	0.00001018
		149	5745	5,744.94053	0.00001035
		157	5785	5,784.97205	0.00000483
		165	5825	5,824.93931	0.00001042
55 °C	4.42V	36	5180	5,179.94133	0.00001133
		44	5220	5,219.94182	0.00001115
		48	5240	5,239.94347	0.00001079
		52	5260	5,259.94296	0.00001084
		60	5300	5,299.94223	0.00001090
		64	5320	5,319.94212	0.00001088
		100	5500	5,499.97391	0.00000474
		116	5580	5,579.94105	0.00001056
		140	5700	5,699.93956	0.00001060
		144	5720	5,719.94177	0.00001018
		149	5745	5,744.94039	0.00001038
		157	5785	5,784.97244	0.00000476
	165	5825	5,824.93929	0.00001042	
	3.4V	36	5180	5,179.94100	0.00001139
		44	5220	5,219.94265	0.00001099
		48	5240	5,239.94328	0.00001082
		52	5260	5,259.94265	0.00001090
		60	5300	5,299.94268	0.00001082
		64	5320	5,319.94245	0.00001082
		100	5500	5,499.97361	0.00000480
		116	5580	5,579.94149	0.00001049
		140	5700	5,699.94018	0.00001050
		144	5720	5,719.94177	0.00001018
		149	5745	5,744.94058	0.00001034
157		5785	5,784.97242	0.00000477	
165	5825	5,824.93968	0.00001036		

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Operation Mode	802.11 n_HT40	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	38	5190	5,189.94548	0.00001050
		46	5230	5,229.94540	0.00001044
		54	5270	5,269.91270	0.00001656
		62	5310	5,309.94515	0.00001033
		102	5510	5,509.94251	0.00001043
		110	5550	5,549.94117	0.00001060
		134	5670	5,669.94028	0.00001053
		142	5710	5,709.94193	0.00001017
		151	5755	5,754.93866	0.00001066
		159	5795	5,794.93905	0.00001052
	3.4V	38	5190	5,189.94548	0.00001051
		46	5230	5,229.94567	0.00001039
		54	5270	5,269.91293	0.00001652
		62	5310	5,309.94503	0.00001035
		102	5510	5,509.94257	0.00001042
		110	5550	5,549.94103	0.00001063
		134	5670	5,669.93990	0.00001060
		142	5710	5,709.94147	0.00001025
		151	5755	5,754.93881	0.00001063
		159	5795	5,794.93861	0.00001059

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25 °C	3.85V	38	5190	5,189.94590	0.00001042
		46	5230	5,229.94538	0.00001044
		54	5270	5,269.91286	0.00001654
		62	5310	5,309.94465	0.00001042
		102	5510	5,509.94285	0.00001037
		110	5550	5,549.94143	0.00001055
		134	5670	5,669.93962	0.00001065
		142	5710	5,709.94168	0.00001021
		151	5755	5,754.93875	0.00001064
		159	5795	5,794.93928	0.00001048
55 °C	4.42V	38	5190	5,189.94577	0.00001045
		46	5230	5,229.94505	0.00001051
		54	5270	5,269.91214	0.00001667
		62	5310	5,309.94491	0.00001037
		102	5510	5,509.94273	0.00001039
		110	5550	5,549.94107	0.00001062
		134	5670	5,669.94002	0.00001058
		142	5710	5,709.94149	0.00001025
		151	5755	5,754.93867	0.00001066
		159	5795	5,794.93911	0.00001051
	3.4V	38	5190	5,189.94579	0.00001045
		46	5230	5,229.94508	0.00001050
		54	5270	5,269.91247	0.00001661
		62	5310	5,309.94496	0.00001036
		102	5510	5,509.94290	0.00001036
		110	5550	5,549.94069	0.00001069
		134	5670	5,669.94017	0.00001055
		142	5710	5,709.94173	0.00001020
		151	5755	5,754.93866	0.00001066
		159	5795	5,794.93913	0.00001050

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.03
Temperature	:25 °C	Test By	Henry
Humidity	:67 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.42V	42	5210	5,209.94442	0.00001067
		58	5290	5,289.94432	0.00001053
		106	5530	5,529.90856	0.00001653
		122	5610	5,609.94064	0.00001058
		138	5690	5,689.93913	0.00001070
		155	5775	5,774.97162	0.00000491
	3.4V	42	5210	5,209.94384	0.00001078
		58	5290	5,289.94487	0.00001042
		106	5530	5,529.90867	0.00001651
		122	5610	5,609.94085	0.00001054
		138	5690	5,689.93902	0.00001072
		155	5775	5,774.97110	0.00000501
25 °C	3.85V	42	5210	5,209.94377	0.00001079
		58	5290	5,289.94477	0.00001044
		106	5530	5,529.90860	0.00001653
		122	5610	5,609.94037	0.00001063
		138	5690	5,689.93918	0.00001069
		155	5775	5,774.97143	0.00000495
55 °C	4.42V	42	5210	5,209.94384	0.00001078
		58	5290	5,289.94480	0.00001043
		106	5530	5,529.90831	0.00001658
		122	5610	5,609.94041	0.00001062
		138	5690	5,689.93966	0.00001061
		155	5775	5,774.97166	0.00000491
	3.4V	42	5210	5,209.94434	0.00001068
		58	5290	5,289.94458	0.00001048
		106	5530	5,529.90881	0.00001649
		122	5610	5,609.94012	0.00001067
		138	5690	5,689.93938	0.00001065
		155	5775	5,774.97155	0.00000493

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

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

~ End of Report ~

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