

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Applicant: Sharp Corporation, Mobile Communication B.U.
2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi,
Hiroshima 739-0192, Japan

Manufacturer: Sharp Corporation
1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Product Name: Smart Phone

Report Number: ER/2019/A0107

FCC ID: APYHRO00280

FCC Rule Part: §15.407, Cat: NII

Issue Date: Nov. 28, 2019

Date of Test: Oct. 22, 2019 ~ Nov. 25, 2019

Date of EUT Received: Oct. 22, 2019

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.

Approved By:

Jay Lin

Jay Lin / Asst. Supervisor



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Revision History

Revision	Description	Issue Date	Remark
Rev.00	Original.	Nov. 28, 2019	Revised By: Karen Huang

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1. GENERAL INFORMATION

1.1 Product Description

Product Name:	Smart Phone
Hardware Version:	DVT
Software Version:	N/A
Power Supply:	3.85V from Rechargeable Li-ion Battery

Wi-Fi 802.11	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
a	5180~5240	4	16.99	OFDM
	5260~5320	4	16.99	
	5500~5720	12	16.99	
	5745~5825	5	16.98	
n_HT / ac_VHT 20M	5180~5240	4	HT: 16.96 (Worst Case)	OFDM
	5260~5320	4	HT: 16.98 (Worst Case)	
	5500~5720	12	HT: 16.98 (Worst Case)	
	5745~5825	5	HT: 16.93 (Worst Case)	
n_HT / ac_VHT 40M	5190~5230	2	HT: 16.95 (Worst Case)	OFDM
	5270~5310	2	HT: 16.93 (Worst Case)	
	5500~5710	6	HT: 16.97 (Worst Case)	
	5745~5825	5	HT: 16.96 (Worst Case)	
ac_VHT80M	5210	1	14.96	OFDM
	5290	1	14.97	
	5530~5690	3	16.97	
	5775	1	14.97	
Modulation Type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 – 173.3Mbps 802.11 ac_40MHz: 13.5 – 400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps		
Antenna Designation:		Inverted-F Antenna, 5150~5250MHz Gain: -6.3dBi (ANT0) / -3.8dBi (ANT1) 5250~5350MHz Gain: -3.4dBi (ANT0) / 0.7dBi (ANT1) 5470~5725MHz Gain: -3.4dBi (ANT0) / 0.7dBi (ANT1) 5725~5850MHz Gain: -2.2dBi (ANT0) / 1dBi (ANT1)		

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Designation number: TW0001

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.

1.6 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

1.7 Test data is referenced from cross authorization

Conducted measurement results in the original test report ER/2019/A0074 under FCC ID: APYHRO00279 are fully leveraged in this test report with spot check to demonstrate compliance.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note: The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Emission

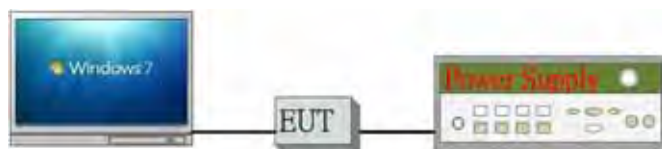


Fig. 2-2 AC Power Line Conducted Emission

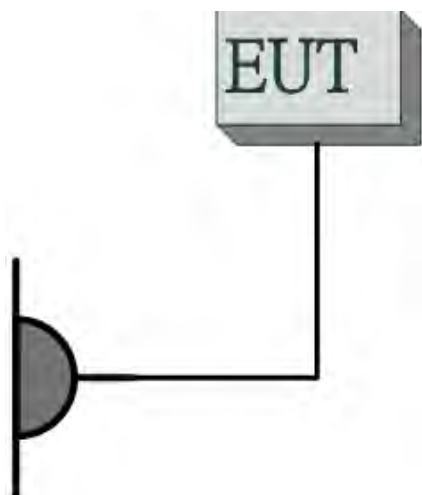


Table 2-1 Equipment Used in Tested System

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.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	N/A
3.	Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A
4.	Notebook	Lenovo	L430	R9-X11BG	N/A	N/A

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 802.11a/n/ac operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5745 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain				Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☐ 802.11 ax	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ MIMO

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

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RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
802.11a	5260~5320	52 to 64	60	OFDM	6	2TX
802.11a	5500~5720	100 to 144	116	OFDM	6	2TX
802.11a	5745~5825	149 to 165	157	OFDM	6	2TX
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	122	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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

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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	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

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Spot Check:

ANTENNA PORT CONDUCTED MEASUREMENT

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
Peak Output Power						
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
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: +2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6. CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(μV)	
	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.
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2018	11/25/2019
LISN	SCHWARZBECK	NSLK 8127	8127-649	04/02/2019	04/01/2020
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R

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

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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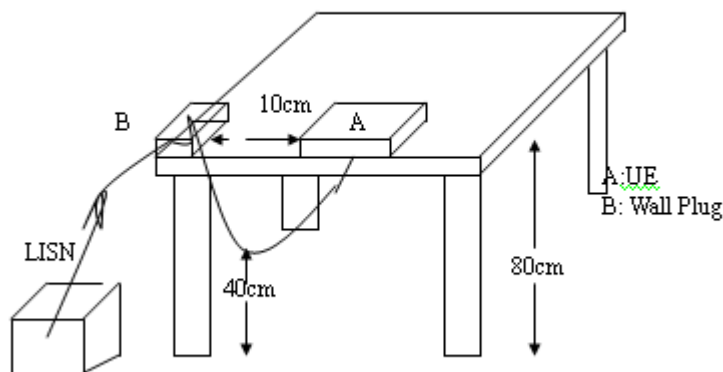
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6.4 Test SET-UP



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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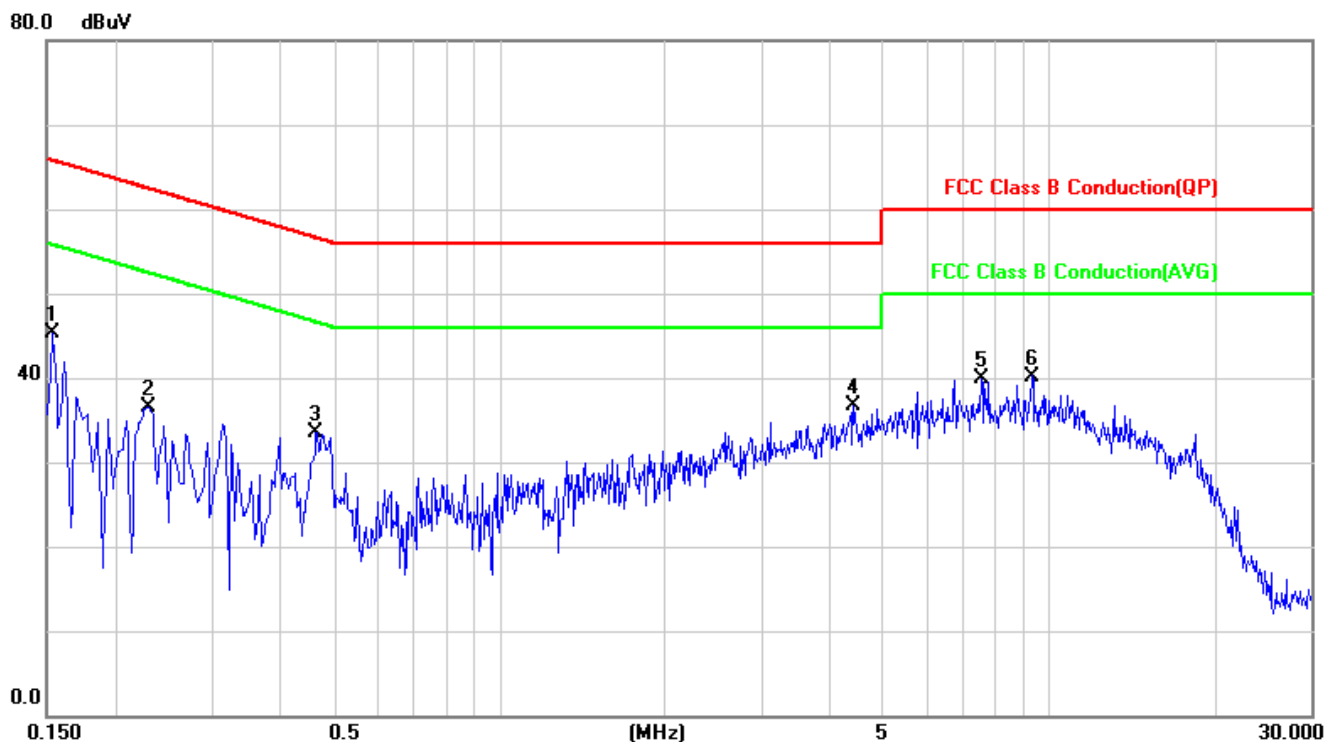
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/11/11
Line:	L1	Temp.()/Hum.(%):	24.1()/64%
Test Voltage:	AC 120V/60Hz	Test By:	Kane



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1540	45.26	0.00	45.26	65.78	-20.52	peak	
2		0.2300	36.57	0.01	36.58	62.45	-25.87	peak	
3		0.4660	33.57	0.01	33.58	56.58	-23.00	peak	
4	*	4.4260	36.46	0.18	36.64	56.00	-19.36	peak	
5		7.5300	39.68	0.23	39.91	60.00	-20.09	peak	
6		9.3220	39.93	0.27	40.20	60.00	-19.80	peak	

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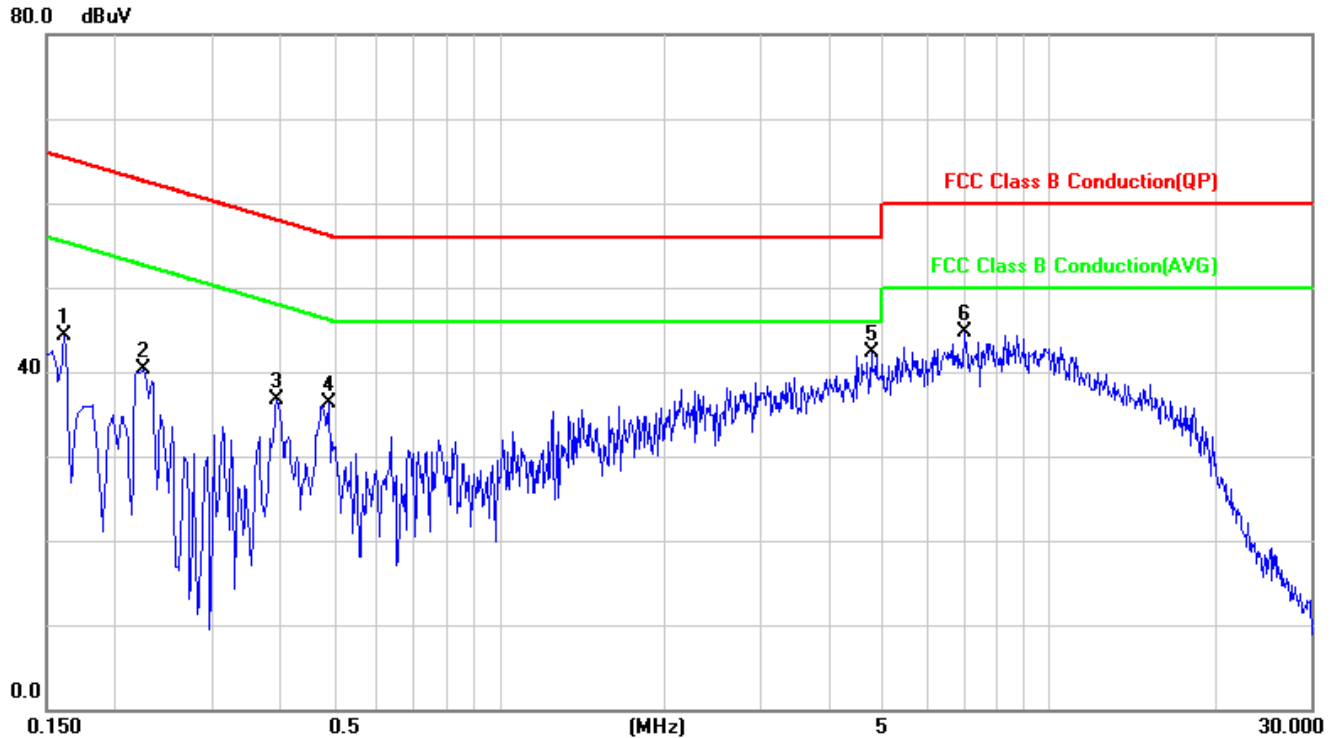
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Description:	Operation	Date:	2019/11/11
Line:	N	Temp.()/Hum.(%):	24.1()/64%
Test Voltage:	AC 120V/60Hz	Test By:	Kane



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1620	44.18	0.03	44.21	65.36	-21.15	peak	
2		0.2260	40.34	0.03	40.37	62.60	-22.23	peak	
3		0.3940	36.61	0.03	36.64	57.98	-21.34	peak	
4		0.4900	36.34	0.03	36.37	56.17	-19.80	peak	
5	*	4.7620	42.16	0.19	42.35	56.00	-13.65	peak	
6		7.0460	44.49	0.24	44.73	60.00	-15.27	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.

7.1 Measurement Procedure:

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

Duty Cycle:

Formula:

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

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.17	0.08	0.49	1.00
802.11n_20	98.02	0.09	0.53	1.00
802.11n_40	96.02	0.18	1.08	2.00
802.11ac_80	92.54	0.34	2.19	3.00

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

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9802) = 0.09$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9602) = 0.18$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9254) = 0.34$$

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7.2 Duty Cycle Test Plots

802.11a



802.11n HT20



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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.
 - 3a. 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.
 - 3b. 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 frequency of interest measured was complete.

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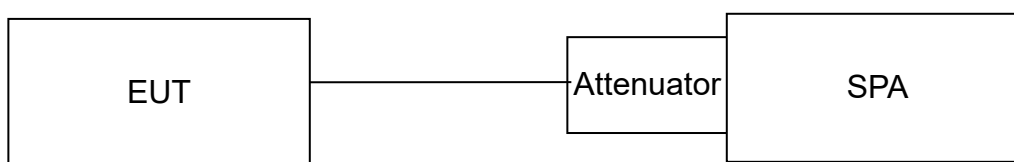
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8.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.18	13.460
5220	21.95	13.414
5240	22.18	13.460
5260	22.14	13.452
5300	22.29	13.481
5320	21.68	13.361
5500	22.4	13.502
5580	22.52	13.526
5700	21.66	13.357
5720	22.13	13.450

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.65	13.355
5220	22.53	13.528
5240	21.9	13.404
5260	21.85	13.395
5300	21.77	13.379
5320	21.85	13.395
5500	22.46	13.514
5580	23.01	13.619
5700	22	13.424
5720	21.49	13.322

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.3	13.674
5220	22.54	13.530
5240	22.65	13.551
5260	23	13.617
5300	23.77	13.760
5320	22.72	13.564
5500	23.19	13.653
5580	23.09	13.634
5700	22.99	13.615
5720	22.36	13.495

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.63	13.547
5220	22.38	13.499
5240	22.67	13.555
5260	22.75	13.570
5300	22.94	13.606
5320	22.5	13.522
5500	22.74	13.568
5580	24.3	13.856
5700	23	13.617
5720	22.4	13.502

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	42.06	16.239
5230	42.03	16.236
5270	42.28	16.261
5310	42.26	16.259
5510	42.3	16.263
5550	42.37	16.271
5670	42.25	16.258
5710	42.8	16.314

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	42.09	16.242
5230	42.7	16.304
5270	42.24	16.257
5310	42.04	16.237
5510	41.73	16.204
5550	42.3	16.263
5670	42.23	16.256
5710	42.12	16.245

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	84.46	19.267
5290	85.1	19.299
5530	86.04	19.347
5610	85.61	19.325
5690	84.98	19.293

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	84.92	19.290
5290	85.11	19.300
5530	84.92	19.290
5610	85.18	19.303
5690	85.02	19.295

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

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.39	12.146
5785	16.4	12.148
5825	16.41	12.151

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.4	12.148
5785	16.42	12.154
5825	16.39	12.146

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.6	12.455
5785	17.64	12.465
5825	17.63	12.463

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.62	12.460
5785	17.65	12.467
5825	17.64	12.465

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.38	15.609
5795	36.39	15.610

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.41	15.612
5795	36.39	15.610

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.41	18.832

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.81	18.797

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99% BW verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.39	< 5250
5745	5736.76	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.37	< 5250
5745	5736.76	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.95	< 5250
5745	5736.16	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.94	< 5250
5745	5736.17	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.25	< 5250
5755	5736.89	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.23	< 5250
5755	5736.89	> 5725

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.03	< 5250
5775	5737.19	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.98	< 5250
5775	5737.21	> 5725

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FCC 802.11a 20MHz Chain0 5180MHz



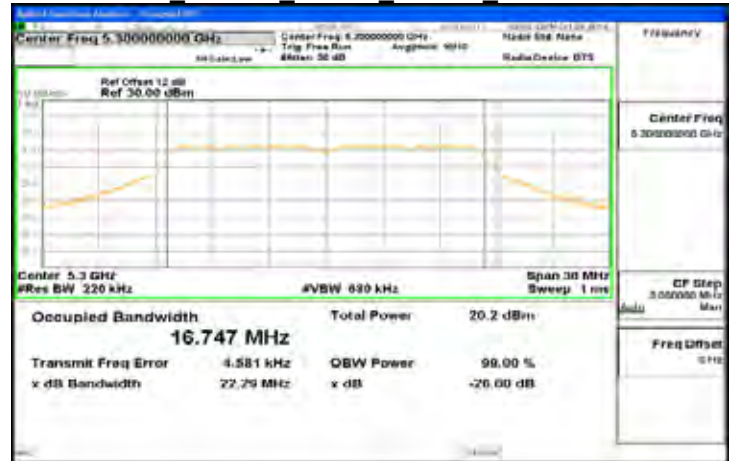
FCC 802.11a 20MHz Chain0 5260MHz



FCC 802.11a 20MHz Chain0 5220MHz



FCC 802.11a 20MHz Chain0 5300MHz



FCC 802.11a 20MHz Chain0 5240MHz



FCC 802.11a 20MHz Chain0 5320MHz



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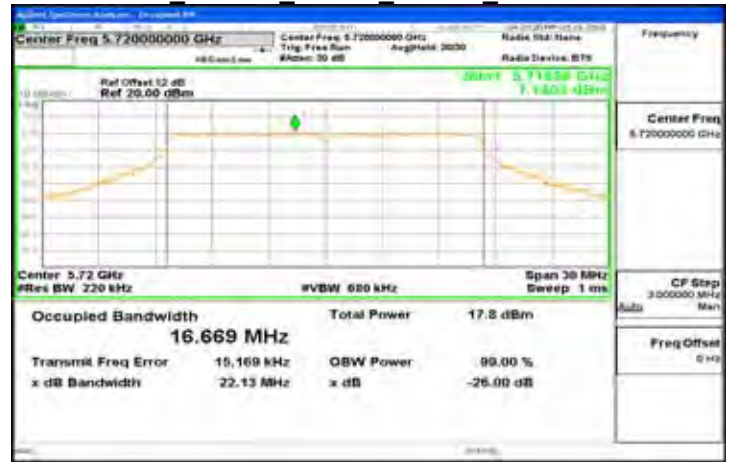
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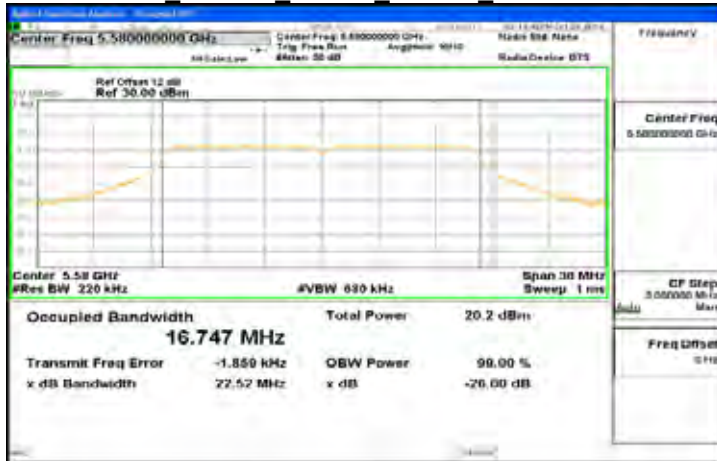
FCC 802.11a 20MHz Chain0 5500MHz



FCC 802.11a 20MHz Chain0 5720MHz



FCC 802.11a 20MHz Chain0 5580MHz



FCC 802.11a 20MHz Chain0 5745MHz



FCC 802.11a 20MHz Chain0 5700MHz



FCC 802.11a 20MHz Chain0 5785MHz



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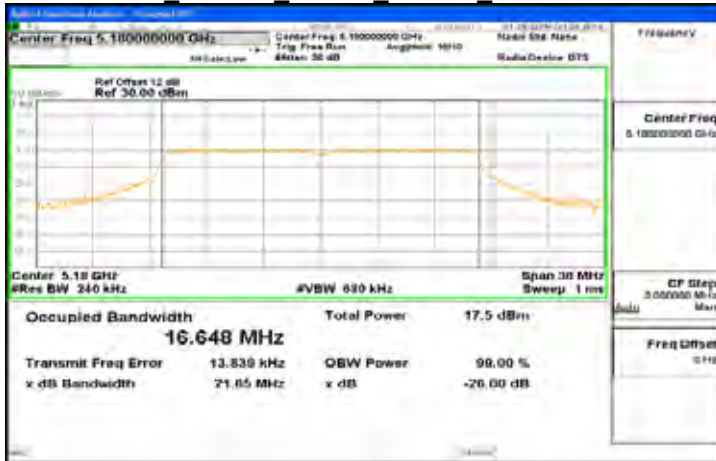
FCC 802.11a 20MHz Chain0 5825MHz



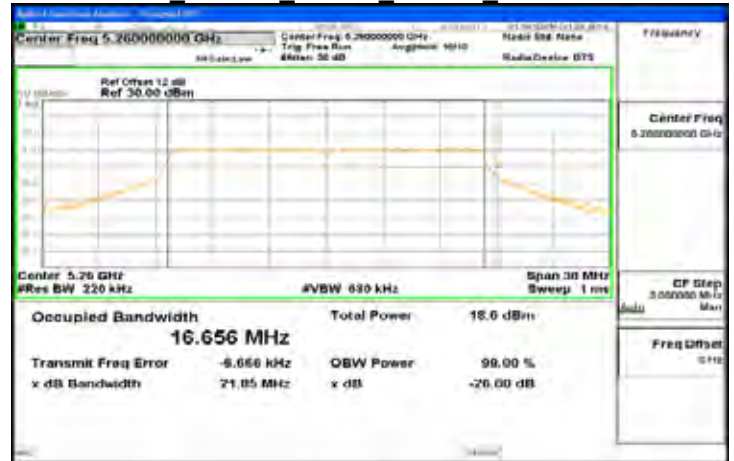
FCC 802.11a 20MHz Chain1 5240MHz



FCC 802.11a 20MHz Chain1 5180MHz



FCC 802.11a 20MHz Chain1 5260MHz



FCC 802.11a 20MHz Chain1 5220MHz



FCC 802.11a 20MHz Chain1 5300MHz



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FCC 802.11a 20MHz Chain1 5320MHz



FCC 802.11a 20MHz Chain1 5700MHz



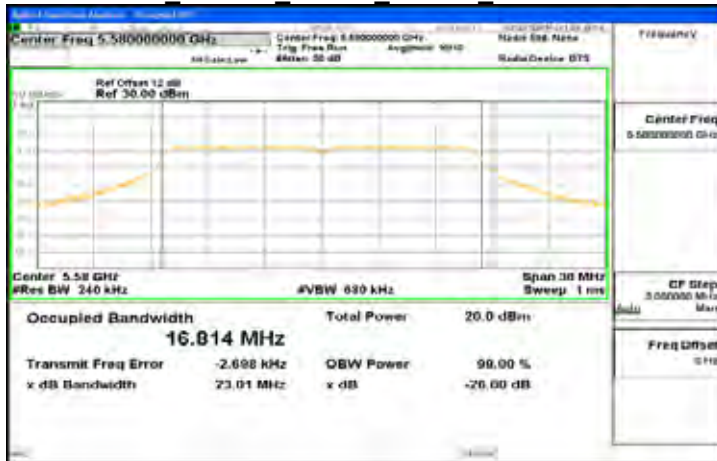
FCC 802.11a 20MHz Chain1 5500MHz



FCC 802.11a 20MHz Chain1 5720MHz



FCC 802.11a 20MHz Chain1 5580MHz



FCC 802.11a 20MHz Chain1 5745MHz



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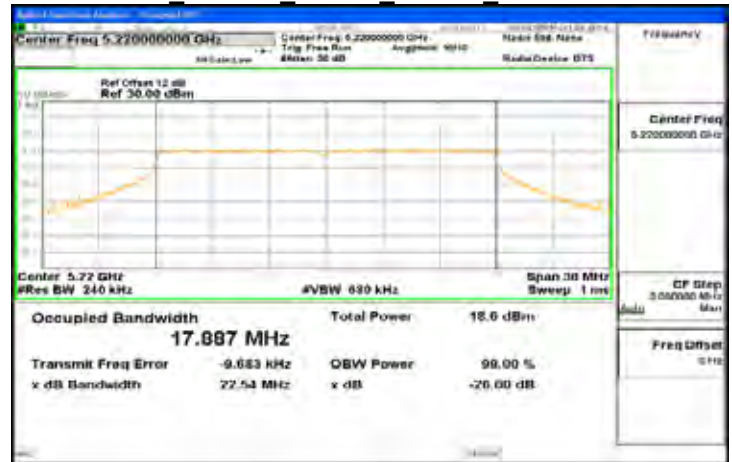
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FCC 802.11a 20MHz Chain1 5785MHz



FCC 802.11n 20MHz Chain0 5220MHz



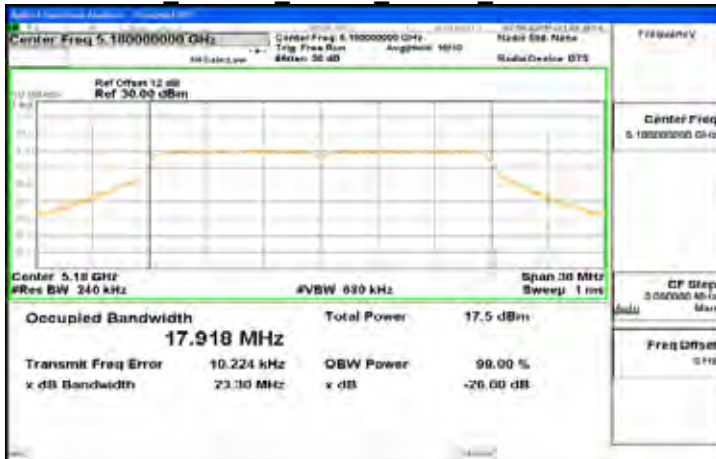
FCC 802.11a 20MHz Chain1 5825MHz



FCC 802.11n 20MHz Chain0 5240MHz



FCC 802.11n 20MHz Chain0 5180MHz



FCC 802.11n 20MHz Chain0 5260MHz



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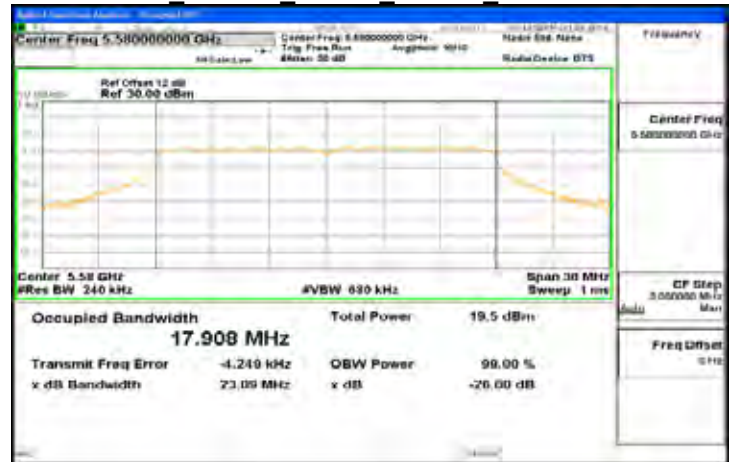
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FCC 802.11n 20MHz Chain0 5300MHz



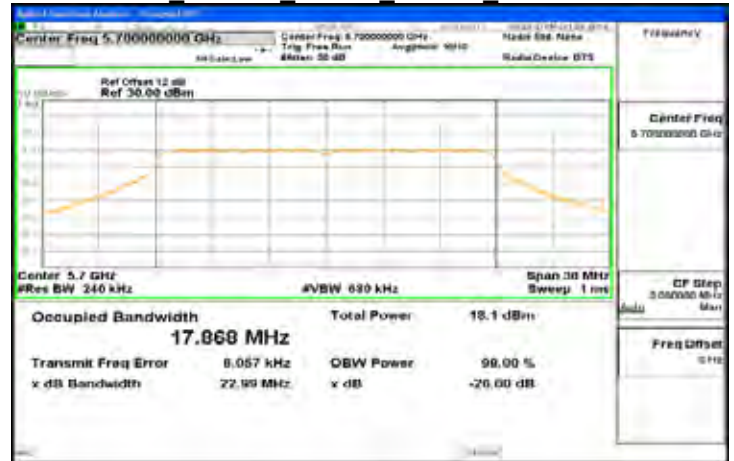
FCC 802.11n 20MHz Chain0 5580MHz



FCC 802.11n 20MHz Chain0 5320MHz



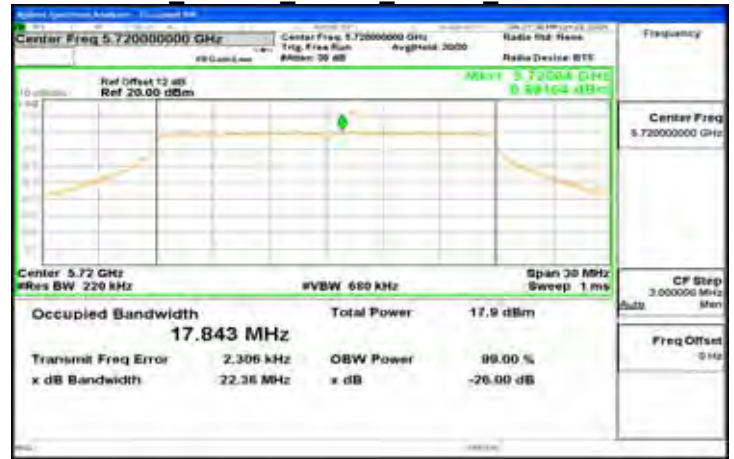
FCC 802.11n 20MHz Chain0 5700MHz



FCC 802.11n 20MHz Chain0 5500MHz



FCC 802.11n 20MHz Chain0 5720MHz



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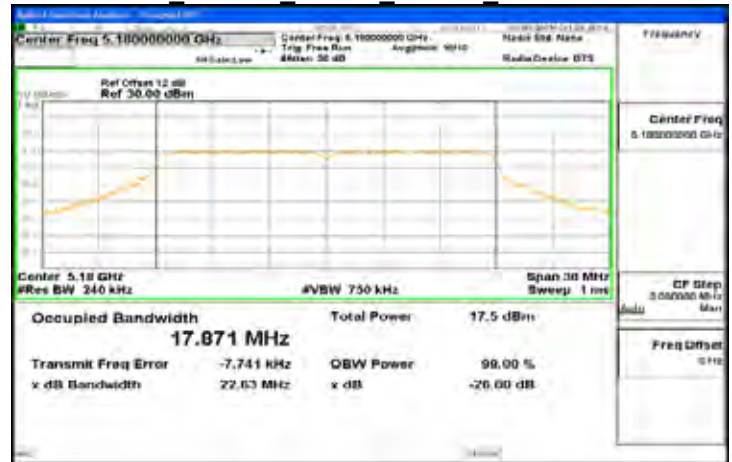
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FCC 802.11n 20MHz Chain0 5745MHz



FCC 802.11n 20MHz Chain1 5180MHz



FCC 802.11n 20MHz Chain0 5785MHz



FCC 802.11n 20MHz Chain1 5220MHz



FCC 802.11n 20MHz Chain0 5825MHz



FCC 802.11n 20MHz Chain1 5240MHz

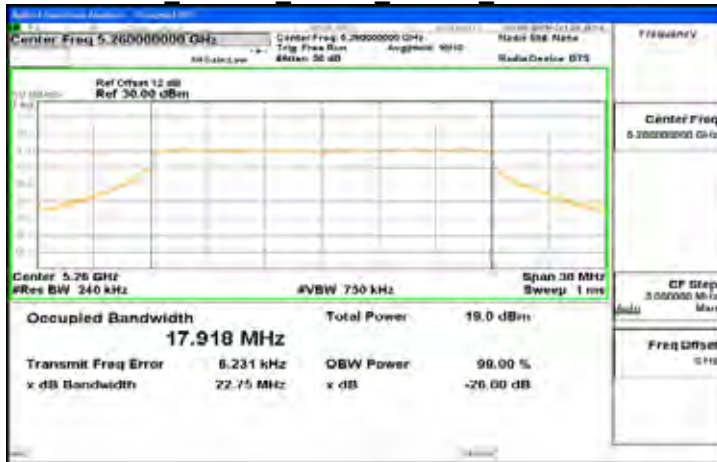


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FCC 802.11n 20MHz Chain1 5260MHz



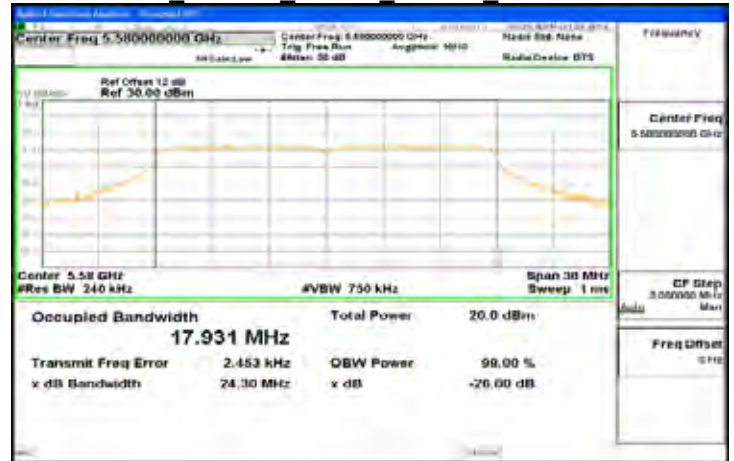
FCC 802.11n 20MHz Chain1 5500MHz



FCC 802.11n 20MHz Chain1 5300MHz



FCC 802.11n 20MHz Chain1 5580MHz



FCC 802.11n 20MHz Chain1 5320MHz



FCC 802.11n 20MHz Chain1 5700MHz



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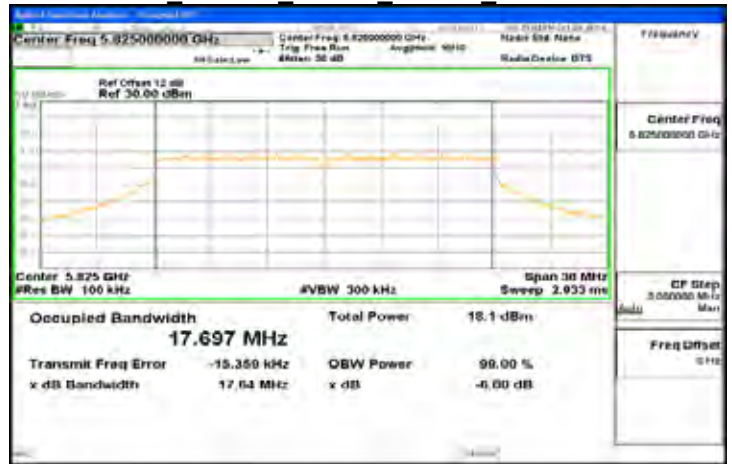
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FCC 802.11n 20MHz Chain1 5720MHz



FCC 802.11n 20MHz Chain1 5825MHz



FCC 802.11n 20MHz Chain1 5745MHz



FCC 802.11n 40MHz Chain0 5190MHz



FCC 802.11n 20MHz Chain1 5785MHz



FCC 802.11n 40MHz Chain0 5230MHz



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FCC 802.11n 40MHz Chain0 5270MHz



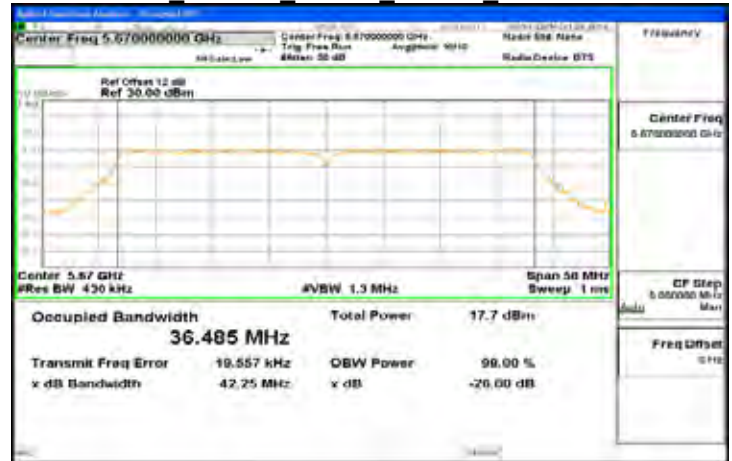
FCC 802.11n 40MHz Chain0 5550MHz



FCC 802.11n 40MHz Chain0 5310MHz



FCC 802.11n 40MHz Chain0 5670MHz



FCC 802.11n 40MHz Chain0 5510MHz



FCC 802.11n 40MHz Chain0 5710MHz



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FCC 802.11n 40MHz Chain0 5755MHz



FCC 802.11n 40MHz Chain1 5230MHz



FCC 802.11n 40MHz Chain0 5795MHz



FCC 802.11n 40MHz Chain1 5270MHz



FCC 802.11n 40MHz Chain1 5190MHz



FCC 802.11n 40MHz Chain1 5310MHz



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FCC 802.11n 40MHz Chain1 5510MHz



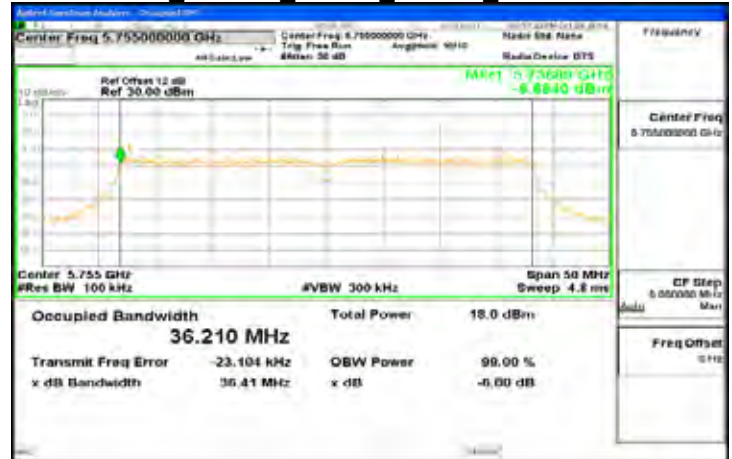
FCC 802.11n 40MHz Chain1 5710MHz



FCC 802.11n 40MHz Chain1 5550MHz



FCC 802.11n 40MHz Chain1 5755MHz



FCC 802.11n 40MHz Chain1 5670MHz



FCC 802.11n 40MHz Chain1 5795MHz



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FCC 802.11ac 80MHz Chain0 5210MHz



FCC 802.11ac 80MHz Chain0 5610MHz



FCC 802.11ac 80MHz Chain0 5290MHz



FCC 802.11ac 80MHz Chain0 5690MHz



FCC 802.11ac 80MHz Chain0 5530MHz



FCC 802.11ac 80MHz Chain0 5775MHz



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FCC 802.11ac 80MHz Chain1 5210MHz



FCC 802.11ac 80MHz Chain1 5610MHz



FCC 802.11ac 80MHz Chain1 5290MHz



FCC 802.11ac 80MHz Chain1 5690MHz



FCC 802.11ac 80MHz Chain1 5530MHz



FCC 802.11ac 80MHz Chain1 5775MHz



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

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

Note:

As per FCC KDB 662911 D01

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

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

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

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

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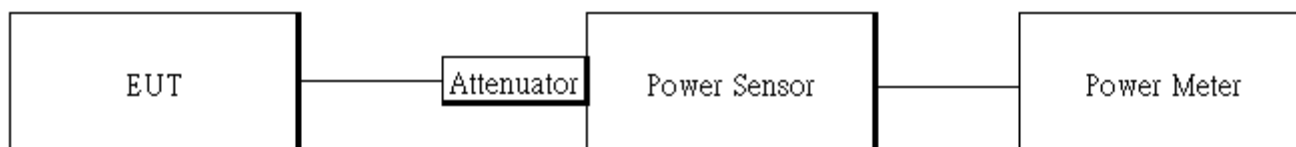
9.2 Measurement Procedure

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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726104	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726107	02/13/2019	02/12/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019

9.4 Test Set-up



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9.5 Measurement Result

802.11a_2Tx

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	11.94	11.85	14.99	31.519	23.98	PASS
44	5220	6	14.08	13.72	16.99	50.052	23.98	PASS
48	5240	6	14.05	13.68	16.96	49.653	23.98	PASS
52	5260	6	14.09	13.54	16.91	49.138	23.98 or $11+10\log(B) = 24.39$	PASS
60	5300	6	13.95	13.85	16.99	50.013	23.98 or $11+10\log(B) = 24.38$	PASS
64	5320	6	12.35	11.36	14.97	31.432	23.98 or $11+10\log(B) = 24.36$	PASS
100	5500	6	12.01	11.73	14.96	31.353	23.98 or $11+10\log(B) = 24.50$	PASS
116	5580	6	14.01	13.79	16.99	50.025	23.98 or $11+10\log(B) = 24.53$	PASS
140	5700	6	12.29	11.48	14.99	31.582	23.98 or $11+10\log(B) = 24.36$	PASS
144	5720(U-NII 2C)	6	10.87	10.03	13.54	22.603	23.98 or $11+10\log(B) = 24.32$	PASS
144	5720 (U-NII 3)	6	6.64	5.65	9.31	8.533	30	PASS
149	5745	6	11.91	11.87	14.98	31.482	30	PASS
157	5785	6	14.17	13.6	16.98	49.944	30	PASS
165	5825	6	12.02	11.69	14.95	31.251	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	11.9	11.87	14.98	31.493	23.98	PASS
44	5220	MCS8	14.12	13.58	16.96	49.608	23.98	PASS
48	5240	MCS8	14.06	13.62	16.94	49.462	23.98	PASS
52	5260	MCS8	14.15	13.47	16.92	49.209	23.98 or $11+10\log(B) = 24.57$	PASS
60	5300	MCS8	13.91	13.86	16.98	49.914	23.98 or $11+10\log(B) = 24.61$	PASS
64	5320	MCS8	12.19	11.48	14.95	31.237	23.98 or $11+10\log(B) = 24.52$	PASS
100	5500	MCS8	12.13	11.63	14.98	31.509	23.98 or $11+10\log(B) = 24.57$	PASS
116	5580	MCS8	13.91	13.86	16.98	49.914	23.98 or $11+10\log(B) = 24.63$	PASS
140	5700	MCS8	12.38	11.31	14.98	31.441	23.98 or $11+10\log(B) = 24.62$	PASS
144	5720(U-NII 2C)	MCS8	10.84	10.02	13.55	22.626	23.98 or $11+10\log(B) = 24.49$	PASS
144	5720 (U-NII 3)	MCS8	6.66	5.85	9.37	8.642	30	PASS
149	5745	MCS8	11.92	11.83	14.97	31.422	30	PASS
157	5785	MCS8	14.09	13.55	16.93	49.267	30	PASS
165	5825	MCS8	12.12	11.63	14.98	31.471	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	11.89	11.69	14.98	31.462	23.98	PASS
46	5230	MCS8	14.12	13.38	16.95	49.573	23.98	PASS
54	5270	MCS8	14.01	13.46	16.93	49.322	23.98 or $11+10\log(B) = 27.26$	PASS
62	5310	MCS8	11.87	11.69	14.97	31.388	23.98 or $11+10\log(B) = 27.24$	PASS
102	5510	MCS8	11.91	11.61	14.95	31.256	23.98 or $11+10\log(B) = 27.20$	PASS
110	5550	MCS8	13.95	13.61	16.97	49.774	23.98 or $11+10\log(B) = 27.26$	PASS
134	5670	MCS8	11.96	11.49	14.92	31.032	23.98 or $11+10\log(B) = 27.26$	PASS
142	5710(U-NII 2C)	MCS8	11.47	10.71	14.28	26.768	23.98 or $11+10\log(B) = 27.24$	PASS
142	5720 (U-NII 3)	MCS8	3.92	2.96	6.73	4.707	30	PASS
151	5755	MCS8	11.8	11.79	14.98	31.490	30	PASS
159	5795	MCS8	14.02	13.52	16.96	49.704	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	11.68	11.55	14.96	31.351	23.98	PASS
58	5290	MCS0	11.82	11.41	14.97	31.382	23.98 or $11+10\log(B) = 30.30$	PASS
106	5530	MCS0	11.64	11.53	14.93	31.134	23.98 or $11+10\log(B) = 30.29$	PASS
122	5610	MCS0	13.75	13.5	16.97	49.817	23.98 or $11+10\log(B) = 30.30$	PASS
138	5690(U-NII 2C)	MCS0	11.56	10.89	14.58	28.736	23.98 or $11+10\log(B) = 30.29$	PASS
138	5690 (U-NII 3)	MCS0	1.41	0.75	4.44	2.778	30	PASS
155	5775	MCS0	11.98	11.23	14.97	31.392	30	PASS

Measurement of emission at elevation angle higher than 30° from horizon

MODE	BANDWIDTH (MHz)	FREQUENCY (MHz)	MAXIMUM CONDUCTED OUTPUT POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
Configuration 802.11a	20	5180	14.99	-1.86	13.13	21	PASS
		5220	16.99	-1.86	15.13	21	PASS
		5240	16.96	-1.86	15.10	21	PASS
Configuration 802.11n_HT20	20	5180	14.98	-1.86	13.12	21	PASS
		5220	16.96	-1.86	15.10	21	PASS
		5240	16.94	-1.86	15.08	21	PASS
Configuration 802.11_HT40	40	5190	14.98	-1.86	13.12	21	PASS
		5230	16.95	-1.86	15.09	21	PASS
Configuration 802.11_AC80	80	5210	14.96	-1.86	13.10	21	PASS

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Spot Check Data:

802.11a		Set	Target	Average Power		Average Power + factor(dBm)
5.2/5.3/5.6/5.8G				Data Rate (Mbps)		Data Rate (Mbps)
CH	Frequency (MHz)			6		6
				ch 0	ch 1	ch 0+1
36	5180	130	15	11.93	11.83	14.97
44	5220	145	17	14.06	13.71	16.98
48	5240	145	17	14.02	13.67	16.94
52	5260	145	17	14.09	13.54	16.91
60	5300	150	17	13.93	13.83	16.97
64	5320	130	15	12.32	11.32	14.94
100	5500	130	15	12.00	11.69	14.94
116	5580	150	17	13.98	13.73	16.94
140	5700	130	15	12.28	11.42	14.96
144	5720	130	15	12.23	11.35	14.90
149	5745	130	15	11.87	11.85	14.95
157	5785	145	17	14.13	13.57	16.95
165	5825	130	15	12.00	11.66	14.92

802.11 n(20M)		Set	Target	Average Power		Average Power + factor(dBm)
5.2/5.3/5.6/5.8G				Data Rate (Mbps)		Data Rate (Mbps)
CH	Frequency (MHz)			mcs 8		mcs 8
				ch 0	ch 1	ch 0+1
36	5180	130	15	11.87	11.84	14.95
44	5220	145	17	14.09	13.54	16.92
48	5240	145	17	14.03	13.56	16.90
52	5260	145	17	14.10	13.43	16.87
60	5300	150	17	13.90	13.82	16.96
64	5320	130	15	12.16	11.46	14.92
100	5500	130	15	12.12	11.55	14.94
116	5580	150	17	13.88	13.85	16.96
140	5700	130	15	12.34	11.29	14.94
144	5720	130	15	12.21	11.41	14.93
149	5745	130	15	11.90	11.80	14.95
157	5785	145	17	14.02	13.53	16.88
165	5825	130	15	12.09	11.56	14.93

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802.11 n(40M)		Set	Target	Average Power Output(dBm)		Average Power + factor(dBm)
5.2/5.3/5.6/5.8G				Data Rate (Mbps)		Data Rate (Mbps)
CH	Frequency (MHz)			mcs 8		mcs 8
				ch 0	ch 1	ch 0+1
38	5190	130	15	11.86	11.64	14.93
46	5230	145	17	14.08	13.36	16.91
54	5270	145	17	13.99	13.41	16.89
62	5310	130	15	11.84	11.63	14.91
102	5510	130	15	11.87	11.58	14.91
110	5550	150	17	13.92	13.57	16.93
134	5670	125	15	11.95	11.45	14.88
142	5710	130	15	12.14	11.33	14.93
151	5755	130	15	11.77	11.72	14.92
159	5795	145	17	13.97	13.50	16.92

802.11ac VHT80		Set	Target	Average Power Output(dBm)		Average Power + factor(dBm)
5.2/5.3/5.6/5.8G				Data Rate (Mbps)		Data Rate (Mbps)
CH	Frequency (MHz)			mcs0		mcs0
				ch 0	ch 1	ch 0+1
42	5210	130	15	11.66	11.52	14.94
58	5290	130	15	11.80	11.37	14.94
106	5530	130	15	11.61	11.51	14.91
122	5610	150	17	13.74	13.46	16.95
138	5690	130	15	11.94	11.26	14.96
155	5775	130	15	11.95	11.21	14.94

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10. POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Point	
	√	Mobile and portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			

Note:

As per FCC KDB 662911 D01

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

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

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

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

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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 $\geq$ 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. User 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.
8. 802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

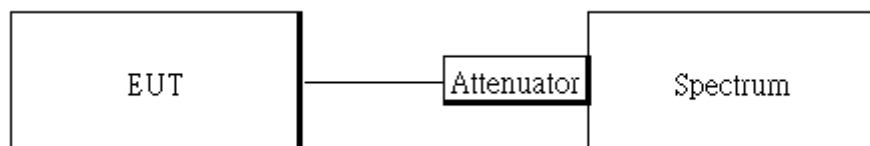
Note:

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

10.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE_2TX					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	2.39	-	2.39	11.00	-8.61
5220.00	3.64	-	3.64	11.00	-7.36
5240.00	4.29	-	4.29	11.00	-6.71
5260.00	4.31	-	4.31	11.00	-6.69
5300.00	4.79	-	4.79	11.00	-6.21
5320.00	3.06	-	3.06	11.00	-7.94
5500.00	2.75	-	2.75	11.00	-8.25
5580.00	4.52	-	4.52	11.00	-6.48
5700.00	2.82	-	2.82	11.00	-8.18
5720 (U-NII 2C)	2.91	-	2.91	11.00	-8.09
5720 (U-NII 3)	0.23	-	0.23	30.00	-29.77
5745.00	-0.26	-	-0.26	30.00	-30.26
5785.00	1.54	-	1.54	30.00	-28.46
5825.00	0.02	-	0.02	30.00	-29.98

POWER DENSITY 802.11n HT20 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	1.89	-	1.89	11	-9.11
5220	3.27	-	3.27	11	-7.73
5240	4.00	-	4.00	11	-7.00
5260	4.08	-	4.08	11	-6.92
5300	4.35	-	4.35	11	-6.65
5320	2.83	-	2.83	11	-8.17
5500	2.48	-	2.48	11	-8.52
5580	4.16	-	4.16	11	-6.84
5700	2.70	-	2.70	11	-8.30
5720 (U-NII 2C)	2.76	-	2.76	11	-8.24
5720 (U-NII 3)	-0.27	-	-0.27	30	-30.27
5745	-0.44	-	-0.44	30	-30.44
5785	1.16	-	1.16	30	-28.84
5825	-0.39	-	-0.39	30	-30.39

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POWER DENSITY 802.11n HT40 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-0.49	0.18	-0.31	11	-11.31
5230	1.17	0.18	1.35	11	-9.65
5270	1.17	0.18	1.35	11	-9.65
5310	-0.54	0.18	-0.36	11	-11.36
5510	-0.44	0.18	-0.26	11	-11.26
5550	1.66	0.18	1.84	11	-9.16
5670	-0.76	0.18	-0.58	11	-11.58
5710 (U-NII 2C)	-0.35	0.18	-0.17	11	-11.17
5710 (U-NII 3)	-3.05	0.18	-2.88	30	-32.88
5755	-3.60	0.18	-3.42	30	-33.42
5795	-1.86	0.18	-1.68	30	-31.68

POWER DENSITY 802.11ac VHT80 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-3.54	0.34	-3.20	11	-14.20
5290	-3.65	0.34	-3.31	11	-14.31
5530	-3.86	0.34	-3.52	11	-14.52
5610	-3.49	0.34	-3.15	11	-14.15
5690 (U-NII 2C)	-2.69	0.34	-2.35	11	-13.35
5690 (U-NII 3)	-5.84	0.34	-5.50	30	-35.50
5775	-6.51	0.34	-6.17	30	-36.17

Note:

Cable Loss=

12 dB

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802.11a_20MHz_5180MHz



802.11a_20MHz_5260MHz



802.11a_20MHz_5220MHz



802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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802.11a_20MHz_5500MHz



802.11a_20MHz_5720MHz



802.11a_20MHz_5580MHz



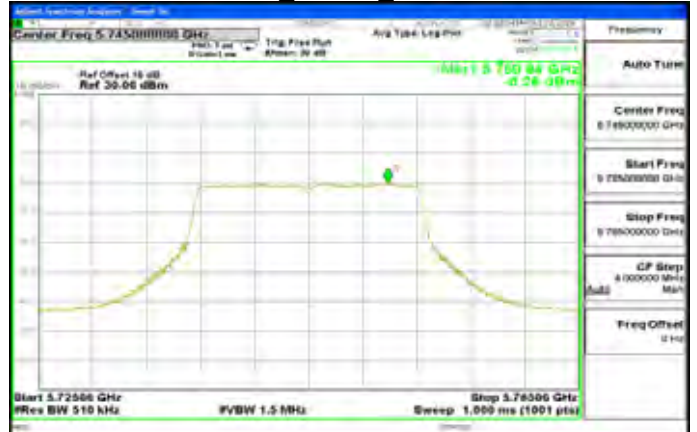
802.11a_20MHz_5720MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5745MHz



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802.11a 20MHz 5785MHz



802.11n 20MHz 5220MHz



802.11a 20MHz 5825MHz



802.11n 20MHz 5240MHz



802.11n 20MHz 5180MHz



802.11n 20MHz 5260MHz



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802.11n 20MHz 5300MHz



802.11n 20MHz 5580MHz



802.11n 20MHz 5320MHz



802.11n 20MHz 5700MHz



802.11n 20MHz 5500MHz



802.11n 20MHz 5720MHz



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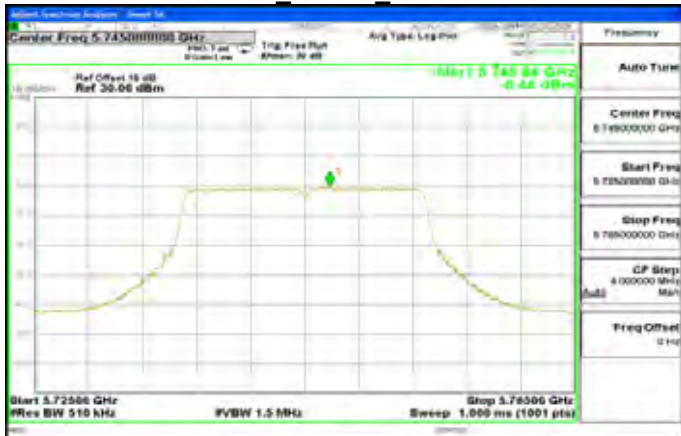
802.11n 20MHz 5720MHz



802.11n 20MHz 5825MHz



802.11n 20MHz 5745MHz



802.11n 40MHz 5190MHz



802.11n 20MHz 5785MHz



802.11n 40MHz 5230MHz



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802.11n 40MHz 5270MHz



802.11n 40MHz 5550MHz



802.11n 40MHz 5310MHz



802.11n 40MHz 5670MHz



802.11n 40MHz 5510MHz



802.11n 40MHz 5710MHz



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802.11n 40MHz 5710MHz



802.11ac 80MHz 5210MHz



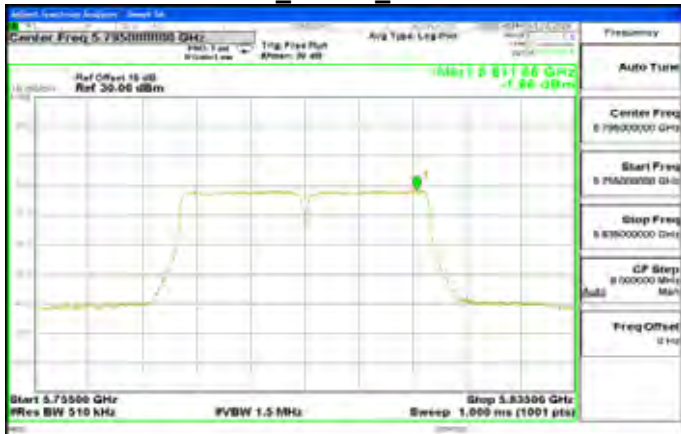
802.11n 40MHz 5755MHz



802.11ac 80MHz 5290MHz



802.11n 40MHz 5795MHz



802.11ac 80MHz 5530MHz

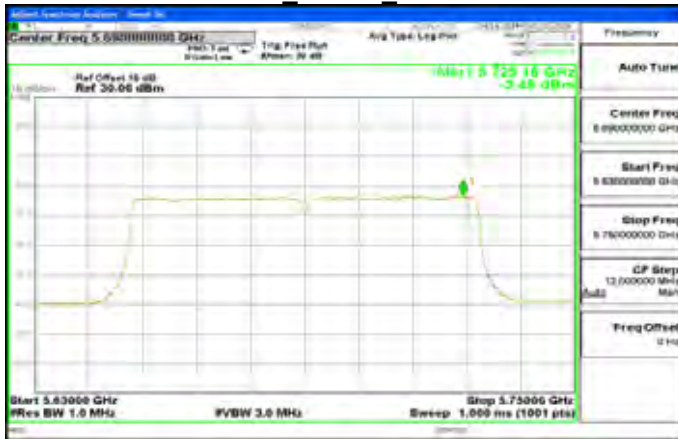


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802.11ac 80MHz 5610MHz



802.11ac 80MHz 5775MHz



802.11ac 80MHz 5690MHz



802.11ac 80MHz 5690MHz



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

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

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

APPLICABLE TO	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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11.1.2 Spurious Emission

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/04/2019	01/03/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
3m Site NSA	SGS	966 chamber	N/A	01/02/2019	01/01/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2019	01/01/2020
Pre-Amplifier	HP	8447D	2944A07676	01/02/2019	01/01/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2019	01/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2019	01/01/2020
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2019	01/01/2020
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2019	01/01/2020
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2019	01/01/2020
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2019	01/01/2020
High Pass Filter	WI	WHKX7.0/18G-8SS	45	01/02/2019	01/01/2020

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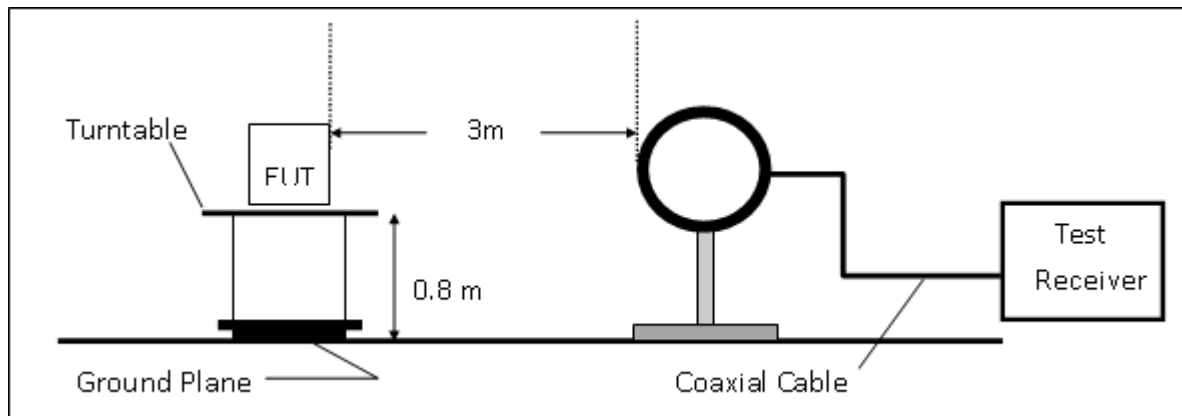
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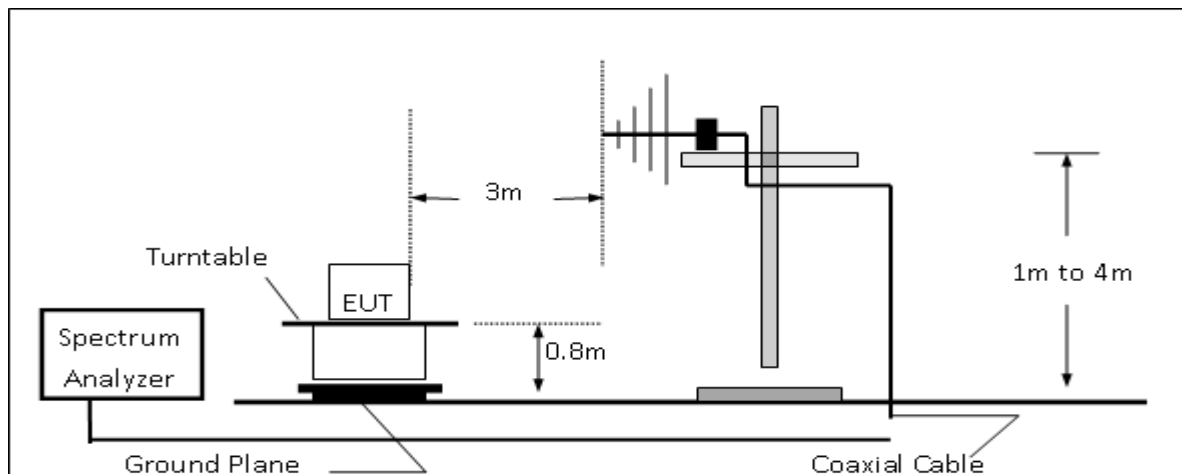
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11.3 Test SET-UP

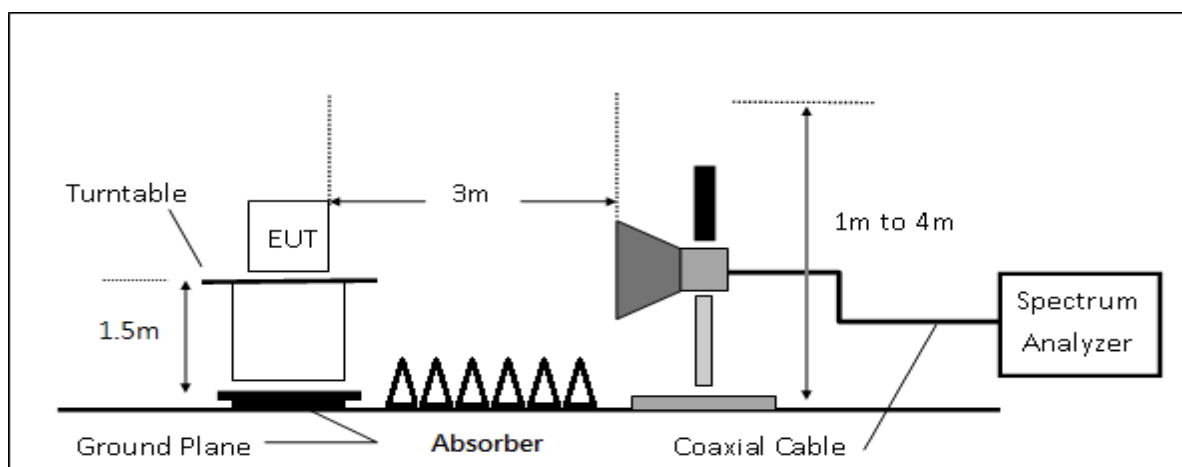
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (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.

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11.5 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

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

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

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.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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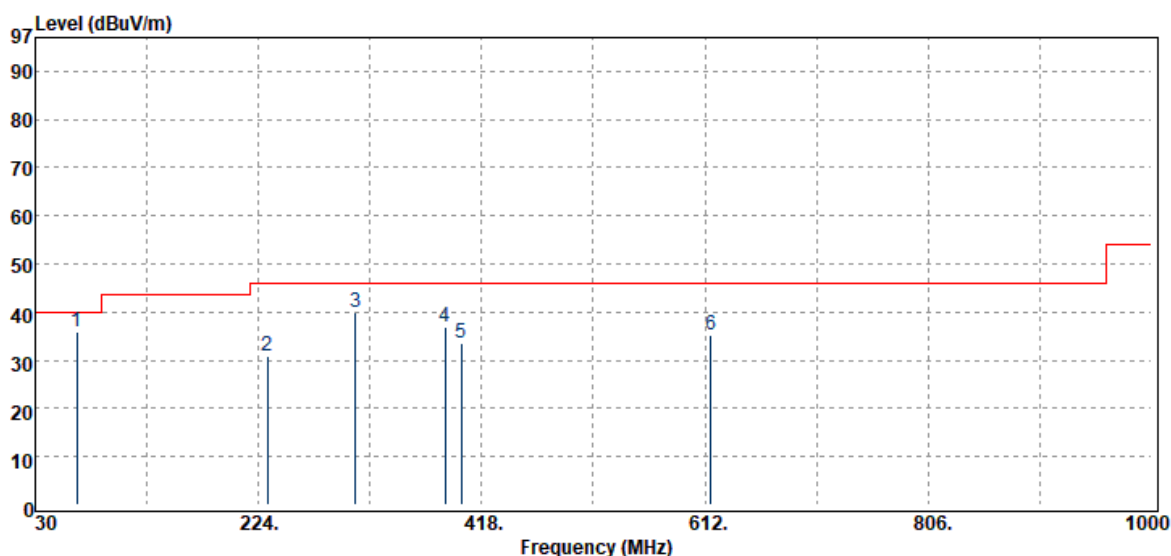
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11.7 Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

Report Number :ER/2019/A0107
 Operation Mode :802.11a B1
 Test Channel :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane

Test Date :2019-11-18
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	45.09	-9.31	35.78	40.00	-4.22
231.76	Peak	39.62	-8.68	30.94	46.00	-15.06
308.39	Peak	45.73	-5.93	39.80	46.00	-6.20
385.99	Peak	41.05	-4.26	36.79	46.00	-9.21
400.54	Peak	37.48	-3.87	33.61	46.00	-12.39
616.85	Peak	35.73	-0.51	35.22	46.00	-10.78

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SGS Taiwan Ltd.

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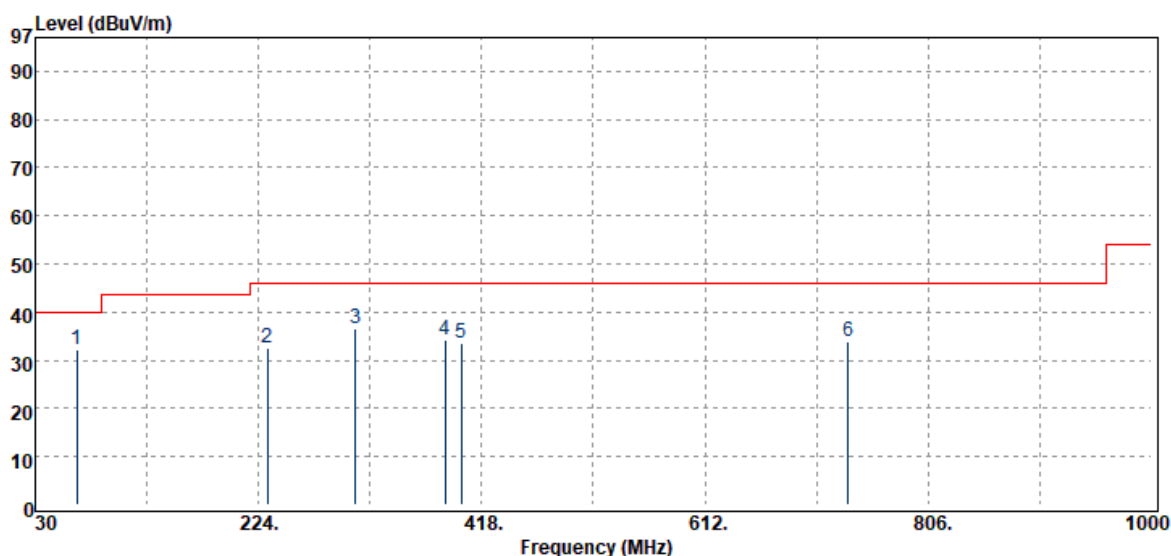
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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B1	Temp./Humi.	:25.5/63
Test Channel	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



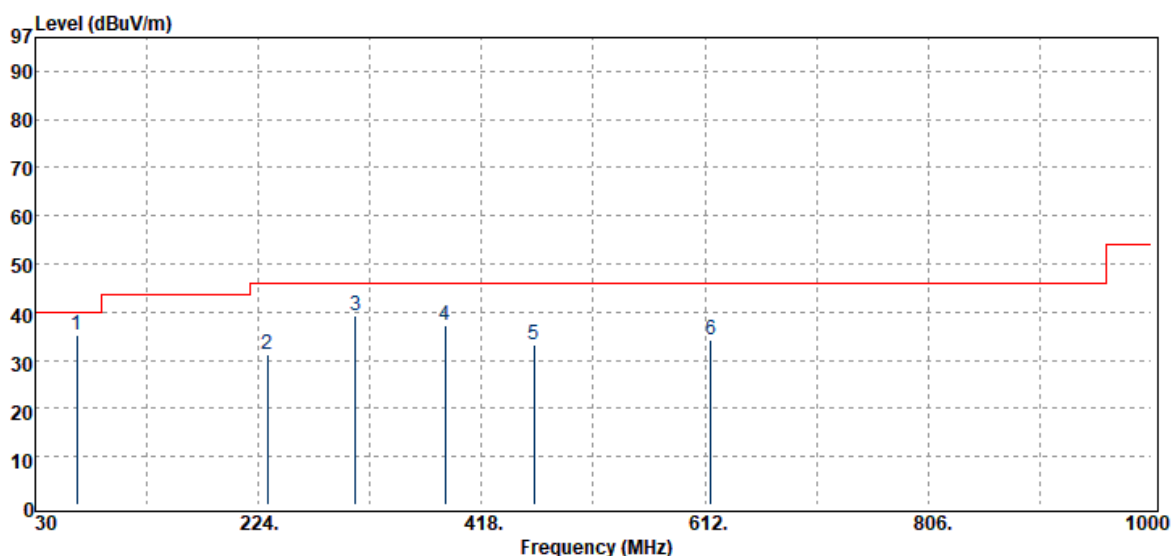
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	41.43	-9.31	32.12	40.00	-7.88
231.76	Peak	41.11	-8.68	32.43	46.00	-13.57
308.39	Peak	42.63	-5.93	36.70	46.00	-9.30
385.99	Peak	38.33	-4.26	34.07	46.00	-11.93
400.54	Peak	37.56	-3.87	33.69	46.00	-12.31
736.16	Peak	32.22	1.71	33.93	46.00	-12.07

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



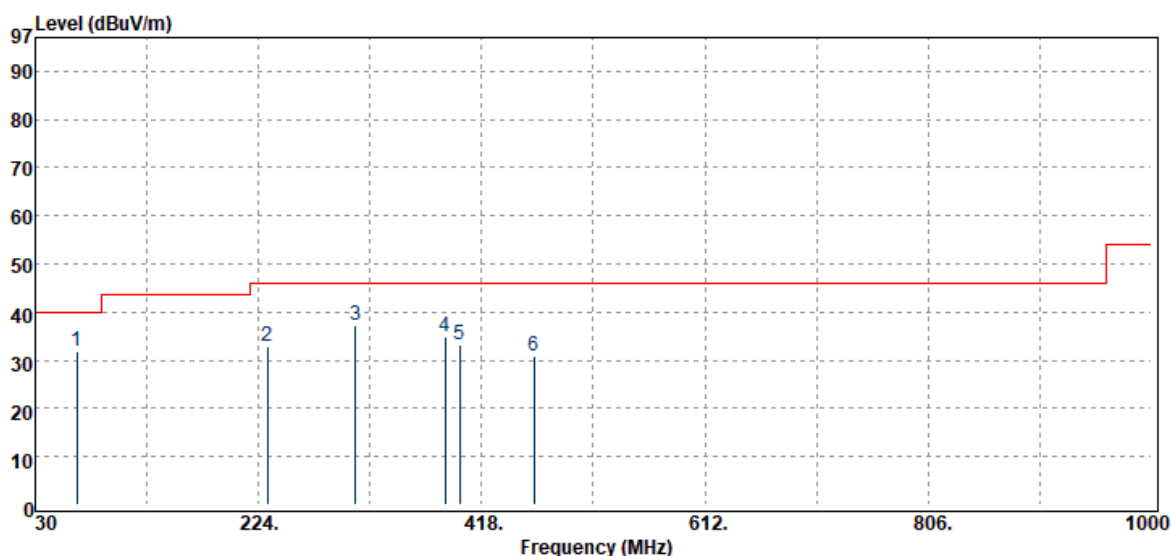
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	44.51	-9.31	35.20	40.00	-4.80
231.76	Peak	40.03	-8.68	31.35	46.00	-14.65
308.39	Peak	45.25	-5.93	39.32	46.00	-6.68
385.99	Peak	41.64	-4.26	37.38	46.00	-8.62
463.59	Peak	36.40	-3.14	33.26	46.00	-12.74
616.85	Peak	34.82	-0.51	34.31	46.00	-11.69

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



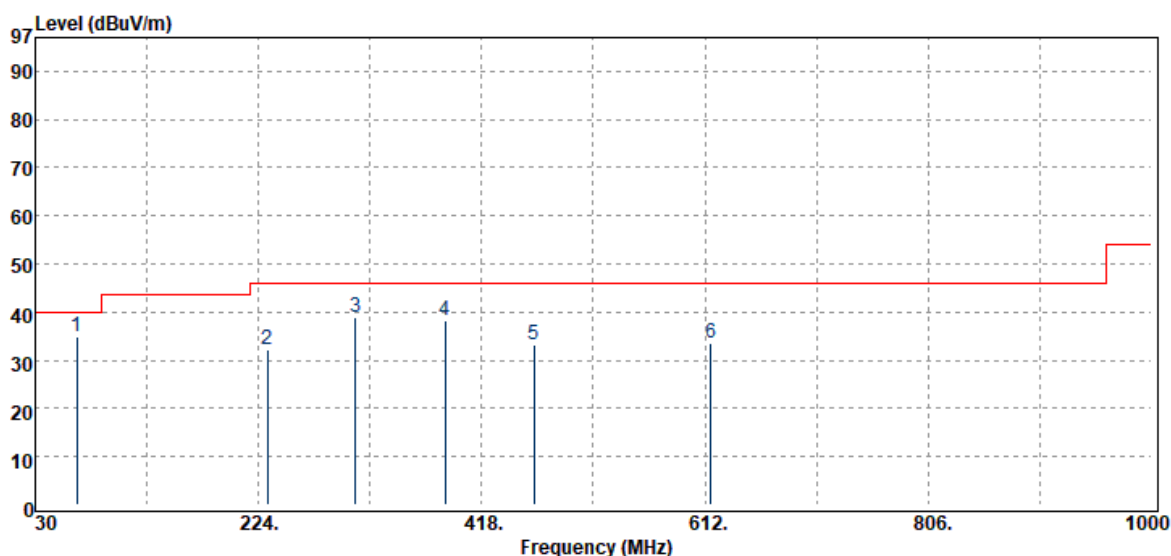
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	41.03	-9.31	31.72	40.00	-8.28
231.76	Peak	41.63	-8.68	32.95	46.00	-13.05
308.39	Peak	43.35	-5.93	37.42	46.00	-8.58
385.99	Peak	39.23	-4.26	34.97	46.00	-11.03
398.60	Peak	37.08	-3.93	33.15	46.00	-12.85
463.59	Peak	33.87	-3.14	30.73	46.00	-15.27

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



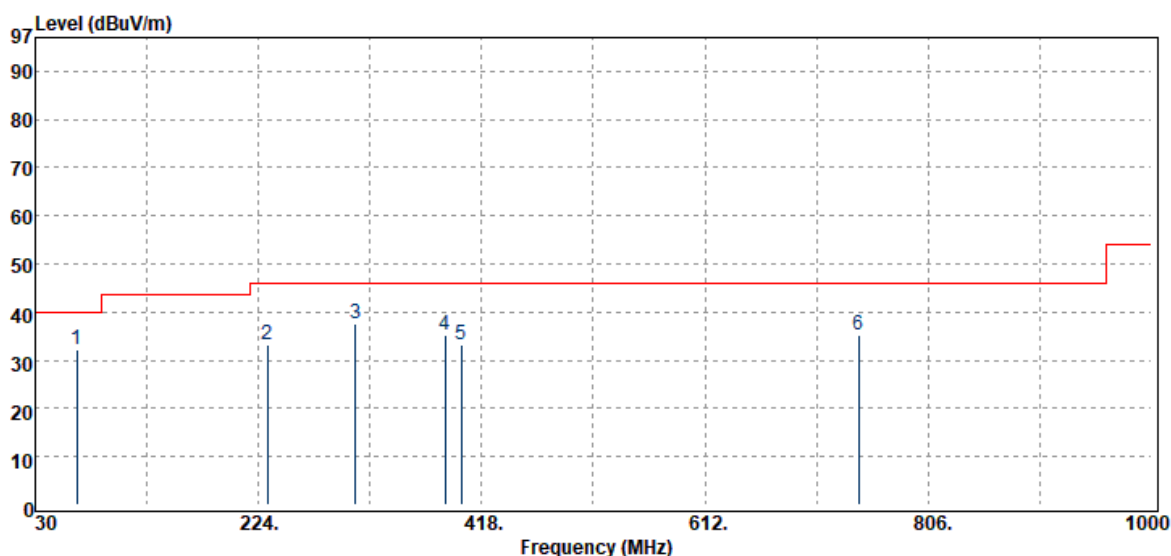
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	44.07	-9.31	34.76	40.00	-5.24
231.76	Peak	40.80	-8.68	32.12	46.00	-13.88
308.39	Peak	44.94	-5.93	39.01	46.00	-6.99
385.99	Peak	42.58	-4.26	38.32	46.00	-7.68
463.59	Peak	36.39	-3.14	33.25	46.00	-12.75
616.85	Peak	34.11	-0.51	33.60	46.00	-12.40

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	41.54	-9.31	32.23	40.00	-7.77
231.76	Peak	41.81	-8.68	33.13	46.00	-12.87
308.39	Peak	43.48	-5.93	37.55	46.00	-8.45
385.99	Peak	39.36	-4.26	35.10	46.00	-10.90
400.54	Peak	36.96	-3.87	33.09	46.00	-12.91
745.86	Peak	32.83	2.46	35.29	46.00	-10.71

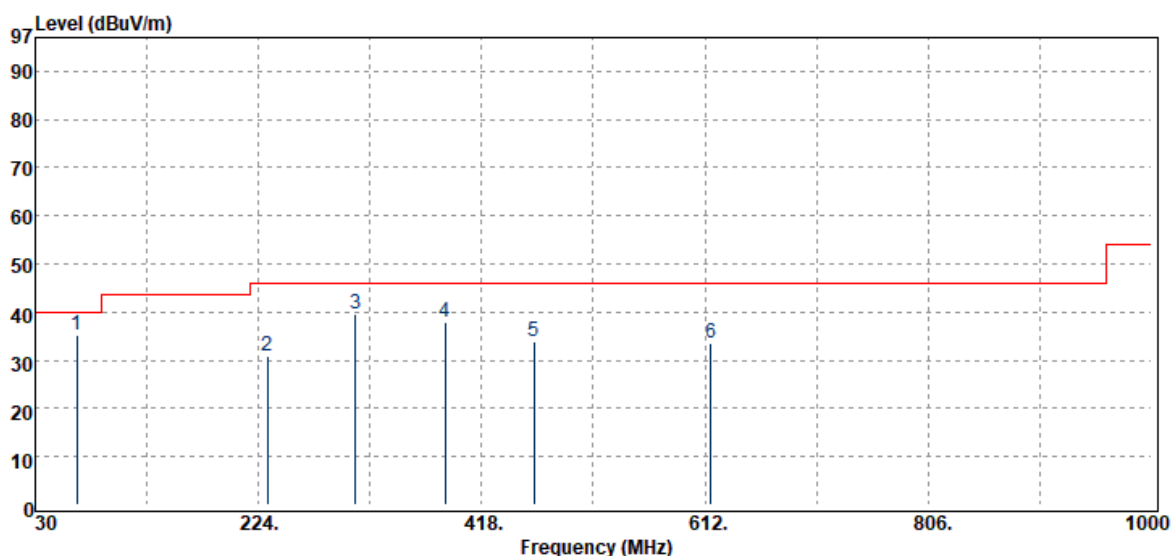
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Report Number :ER/2019/A0107
Operation Mode :802.11a B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



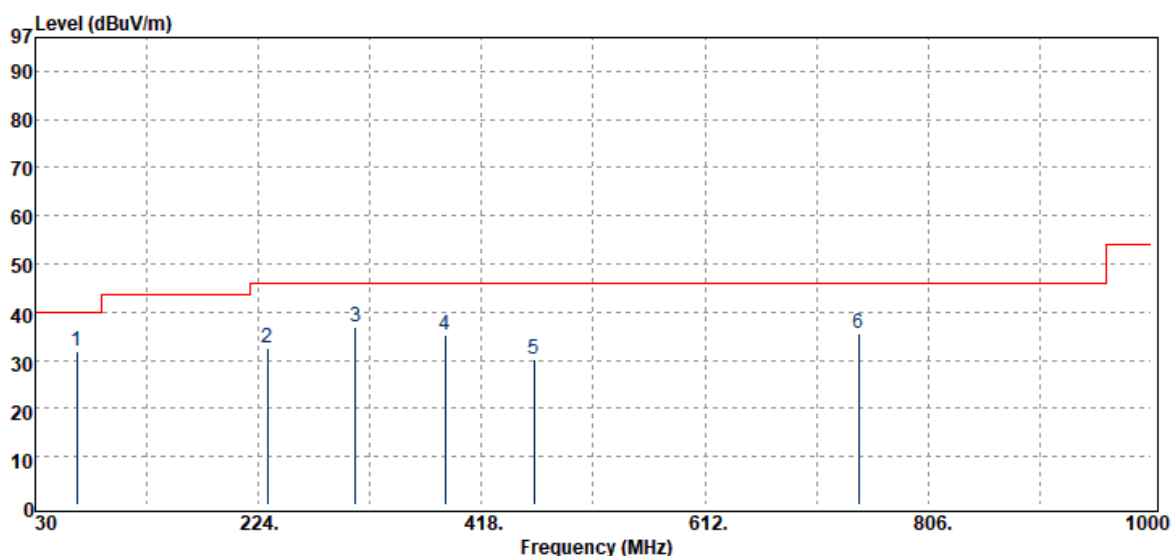
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	44.50	-9.31	35.19	40.00	-4.81
231.76	Peak	39.69	-8.68	31.01	46.00	-14.99
308.39	Peak	45.47	-5.93	39.54	46.00	-6.46
385.99	Peak	42.25	-4.26	37.99	46.00	-8.01
463.59	Peak	37.10	-3.14	33.96	46.00	-12.04
616.85	Peak	34.03	-0.51	33.52	46.00	-12.48

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5785 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	41.31	-9.31	32.00	40.00	-8.00
231.76	Peak	41.18	-8.68	32.50	46.00	-13.50
308.39	Peak	43.01	-5.93	37.08	46.00	-8.92
385.99	Peak	39.67	-4.26	35.41	46.00	-10.59
463.59	Peak	33.50	-3.14	30.36	46.00	-15.64
745.86	Peak	33.06	2.46	35.52	46.00	-10.48

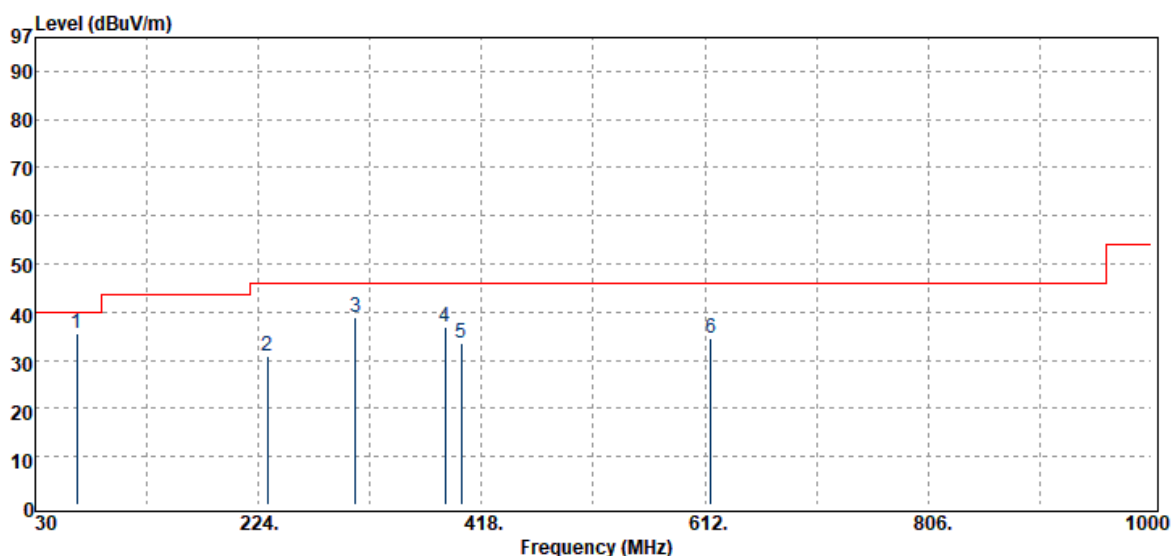
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Report Number :ER/2019/A0107
Operation Mode :802.11ac80 B1
Test Channel :5210 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



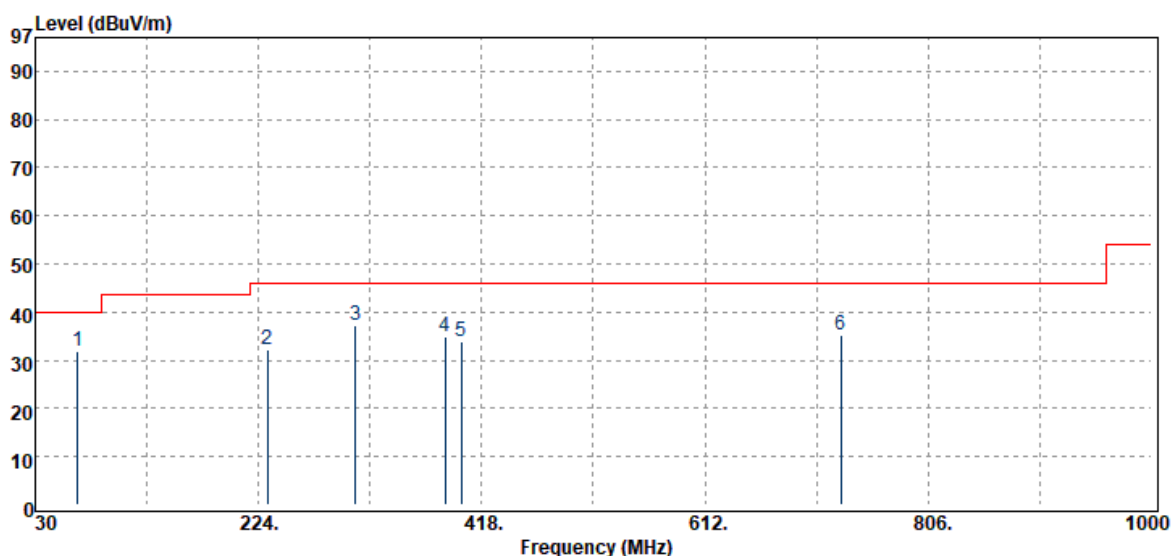
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
65.89	Peak	45.05	-9.31	35.74	40.00	-4.26
231.76	Peak	39.56	-8.68	30.88	46.00	-15.12
308.39	Peak	44.70	-5.93	38.77	46.00	-7.23
385.99	Peak	41.29	-4.26	37.03	46.00	-8.97
400.54	Peak	37.54	-3.87	33.67	46.00	-12.33
616.85	Peak	34.98	-0.51	34.47	46.00	-11.53

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B1	Temp./Humi.	:25.5/63
Test Channel	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.86	Peak	41.30	-9.41	31.89	40.00	-8.11
231.76	Peak	40.79	-8.68	32.11	46.00	-13.89
308.39	Peak	43.29	-5.93	37.36	46.00	-8.64
385.99	Peak	39.10	-4.26	34.84	46.00	-11.16
400.54	Peak	37.60	-3.87	33.73	46.00	-12.27
730.34	Peak	33.80	1.48	35.28	46.00	-10.72

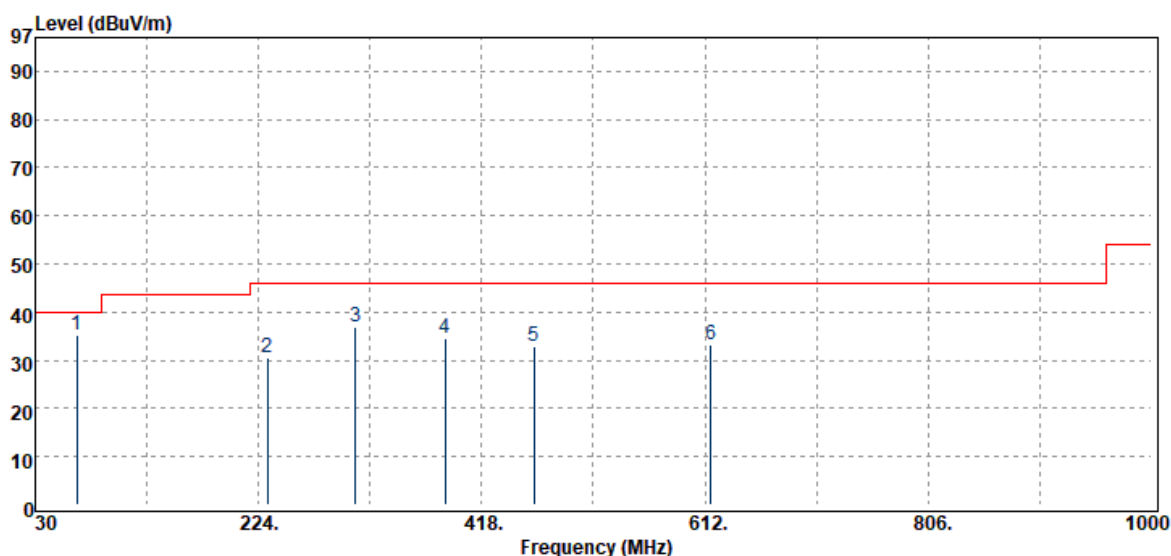
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Report Number :ER/2019/A0107
Operation Mode :802.11ac80 B2
Test Channel :5290 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



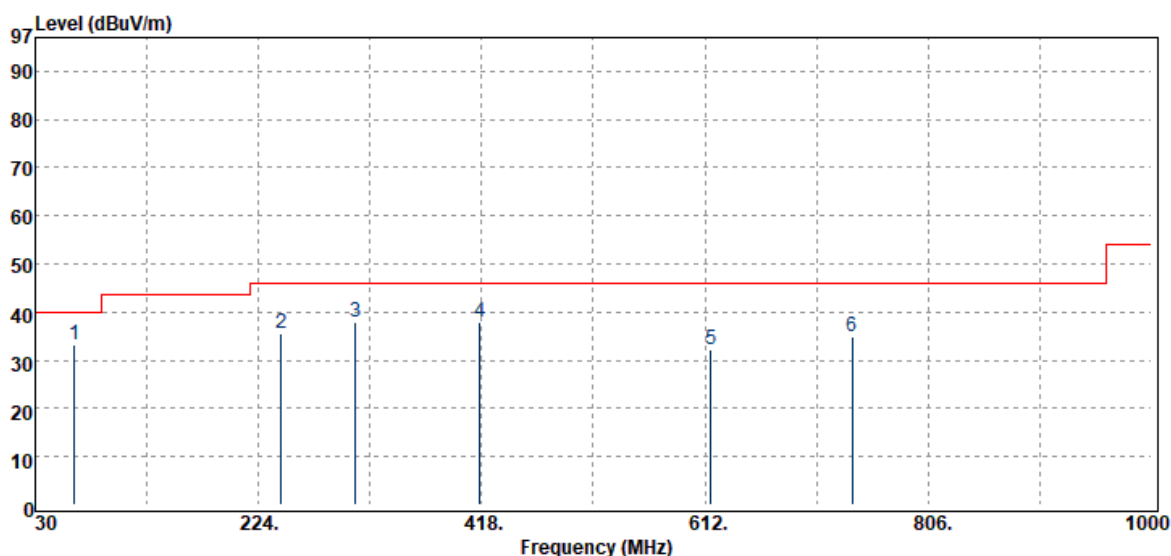
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	44.68	-9.31	35.37	40.00	-4.63
231.76	Peak	39.07	-8.68	30.39	46.00	-15.61
308.39	Peak	42.73	-5.93	36.80	46.00	-9.20
385.99	Peak	38.90	-4.26	34.64	46.00	-11.36
463.59	Peak	35.90	-3.14	32.76	46.00	-13.24
616.85	Peak	33.71	-0.51	33.20	46.00	-12.80

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B2	Temp./Humi.	:25.5/63
Test Channel	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



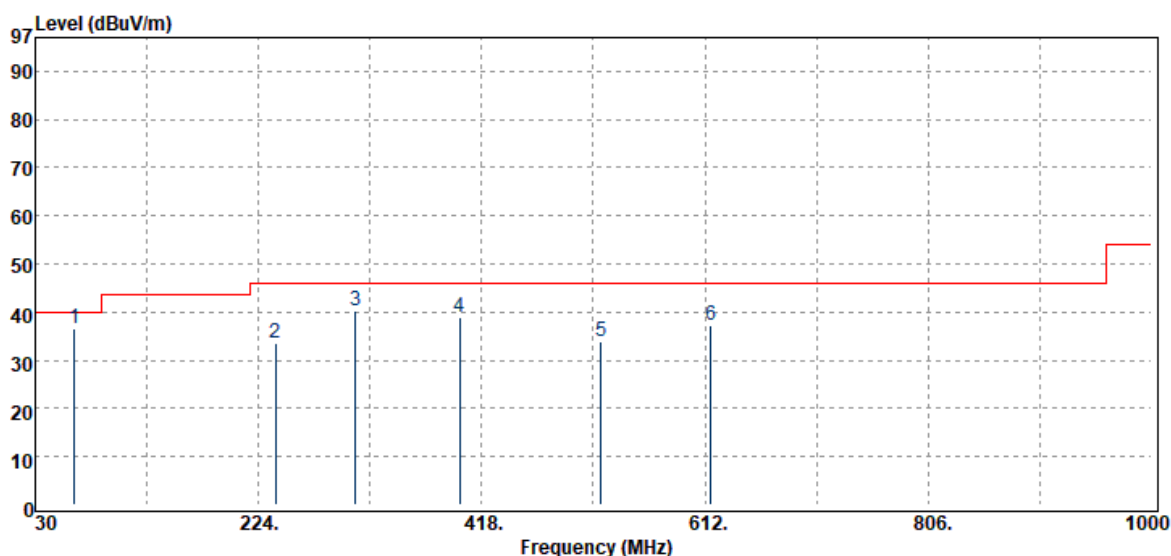
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.95	Peak	42.09	-8.97	33.12	40.00	-6.88
243.40	Peak	43.49	-8.03	35.46	46.00	-10.54
308.39	Peak	43.74	-5.93	37.81	46.00	-8.19
416.06	Peak	41.73	-3.71	38.02	46.00	-7.98
616.85	Peak	32.65	-0.51	32.14	46.00	-13.86
740.04	Peak	33.02	1.91	34.93	46.00	-11.07

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3	Temp./Humi.	:25.5/63
Test Channel	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



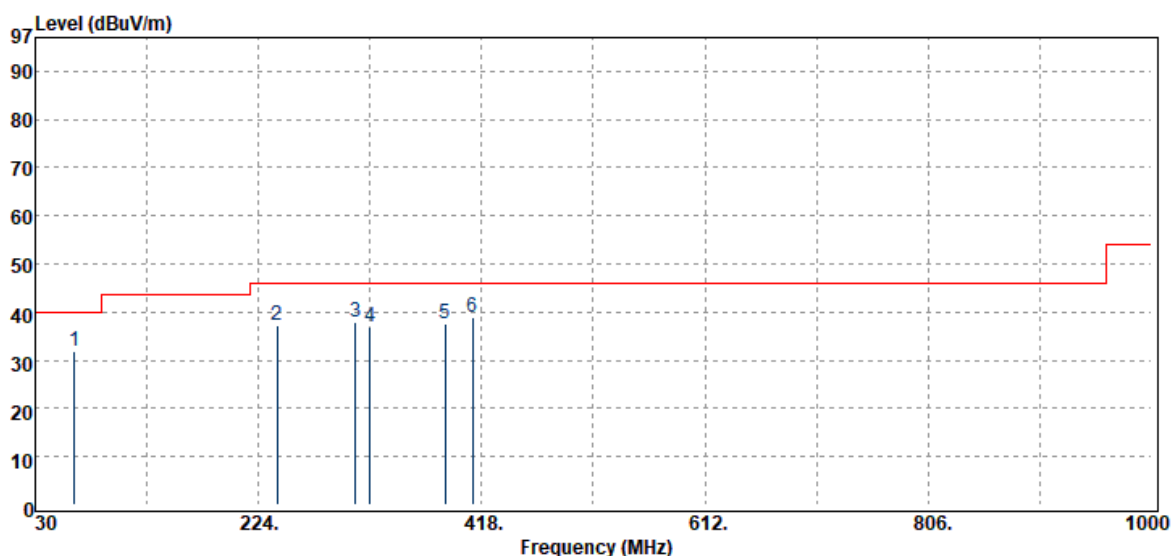
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.95	Peak	45.60	-8.97	36.63	40.00	-3.37
238.55	Peak	41.93	-8.21	33.72	46.00	-12.28
308.39	Peak	46.11	-5.93	40.18	46.00	-5.82
398.60	Peak	42.80	-3.93	38.87	46.00	-7.13
521.79	Peak	35.94	-2.01	33.93	46.00	-12.07
616.85	Peak	37.88	-0.51	37.37	46.00	-8.63

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3	Temp./Humi.	:25.5/63
Test Channel	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.95	Peak	40.99	-8.97	32.02	40.00	-7.98
240.49	Peak	45.50	-8.09	37.41	46.00	-8.59
308.39	Peak	43.92	-5.93	37.99	46.00	-8.01
321.00	Peak	42.42	-5.36	37.06	46.00	-8.94
385.99	Peak	42.00	-4.26	37.74	46.00	-8.26
410.24	Peak	42.46	-3.58	38.88	46.00	-7.12

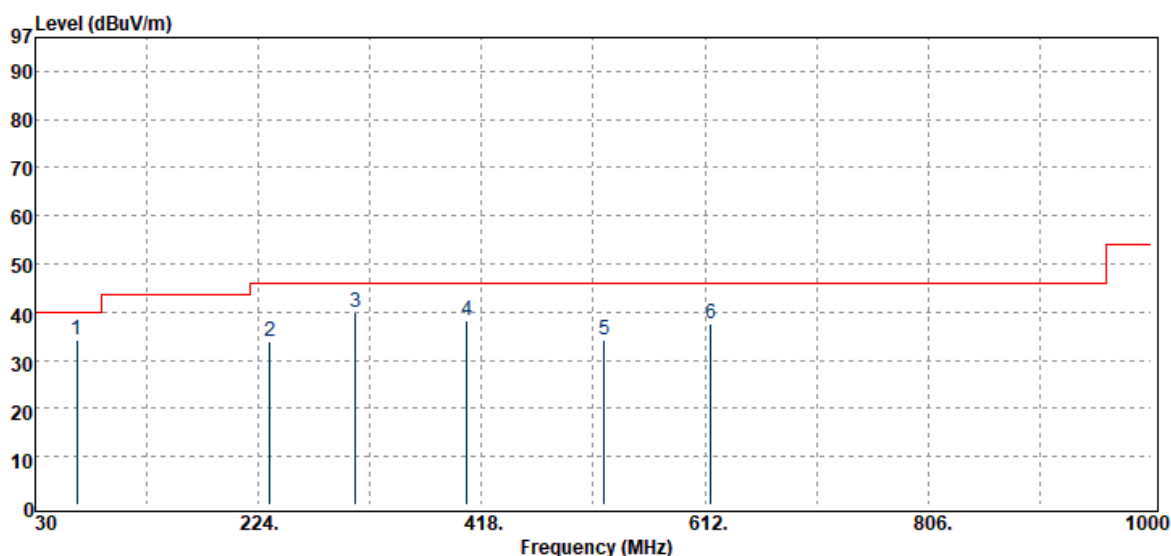
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Report Number :ER/2019/A0107
Operation Mode :802.11ac80 B4
Test Channel :5775 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



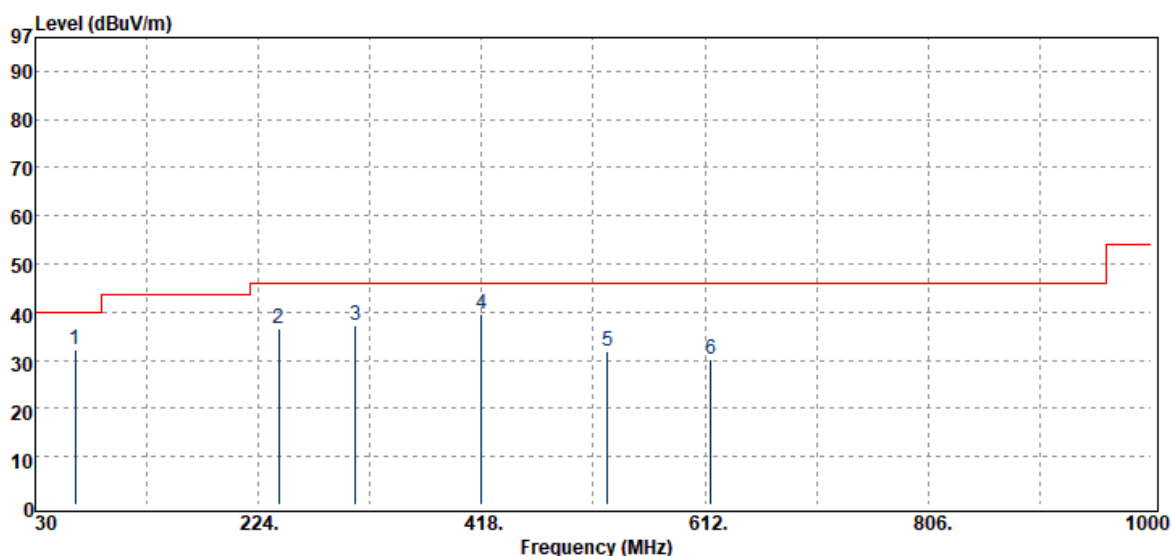
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	43.49	-9.31	34.18	40.00	-5.82
233.70	Peak	42.59	-8.56	34.03	46.00	-11.97
308.39	Peak	45.77	-5.93	39.84	46.00	-6.16
405.39	Peak	41.98	-3.71	38.27	46.00	-7.73
524.70	Peak	36.27	-2.08	34.19	46.00	-11.81
616.85	Peak	37.99	-0.51	37.48	46.00	-8.52

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B4	Temp./Humi.	:25.5/63
Test Channel	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



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
64.92	Peak	41.40	-9.04	32.36	40.00	-7.64
241.46	Peak	44.57	-8.07	36.50	46.00	-9.50
308.39	Peak	43.18	-5.93	37.25	46.00	-8.75
418.00	Peak	43.24	-3.72	39.52	46.00	-6.48
527.61	Peak	33.87	-2.09	31.78	46.00	-14.22
616.85	Peak	30.65	-0.51	30.14	46.00	-15.86

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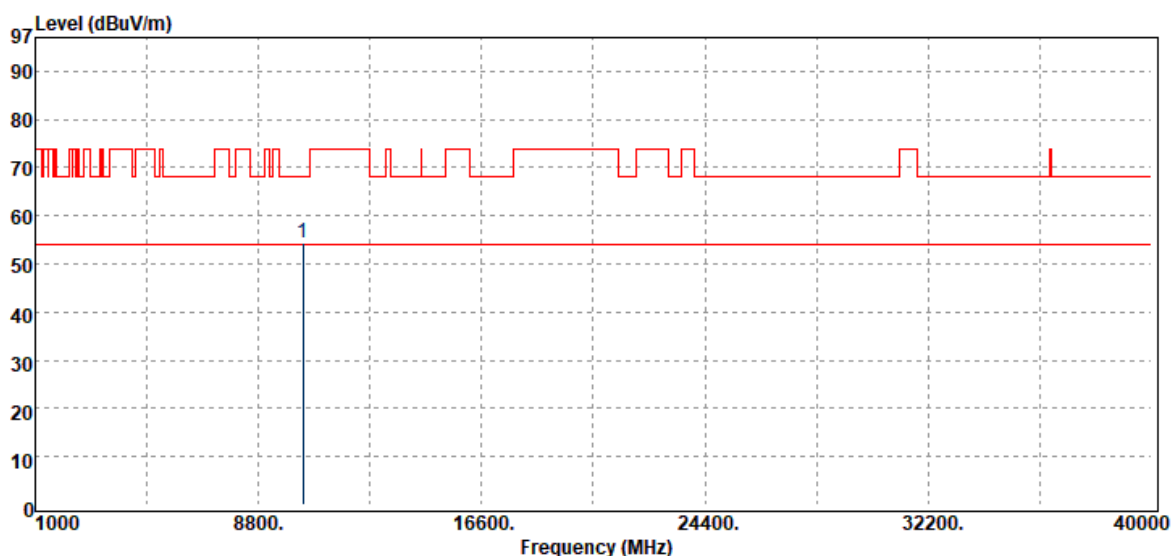
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Above 1GHz Worst-Case Data:

Report Number :ER/2019/A0107
Operation Mode :802.11a B1
Test Channel :5180 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



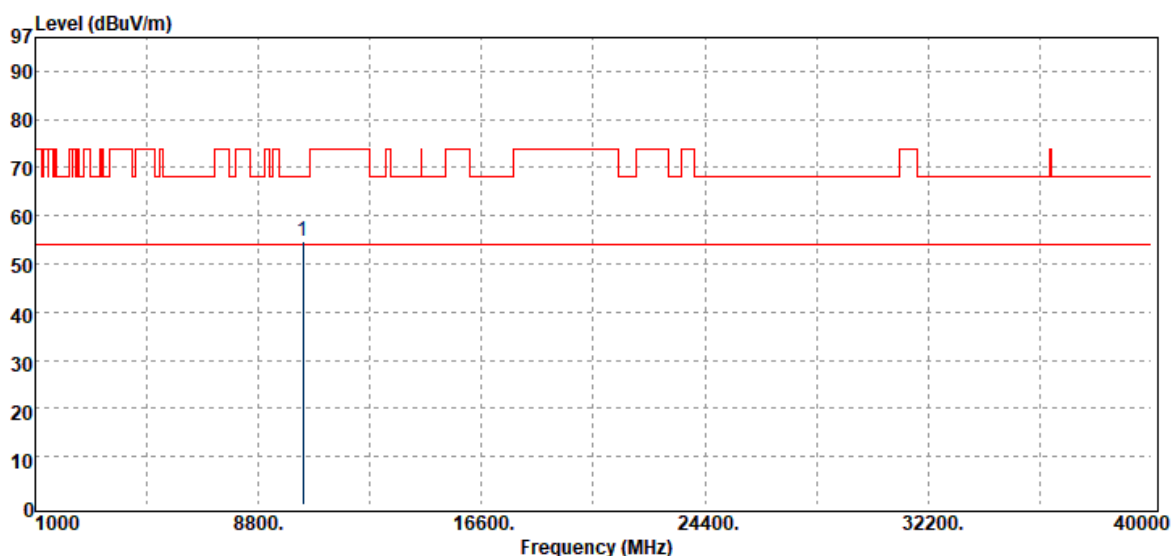
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	35.68	18.72	54.40	68.20	-13.80

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B1	Temp./Humi.	:25.5/63
Test Channel	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



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	36.09	18.72	54.81	68.20	-13.39

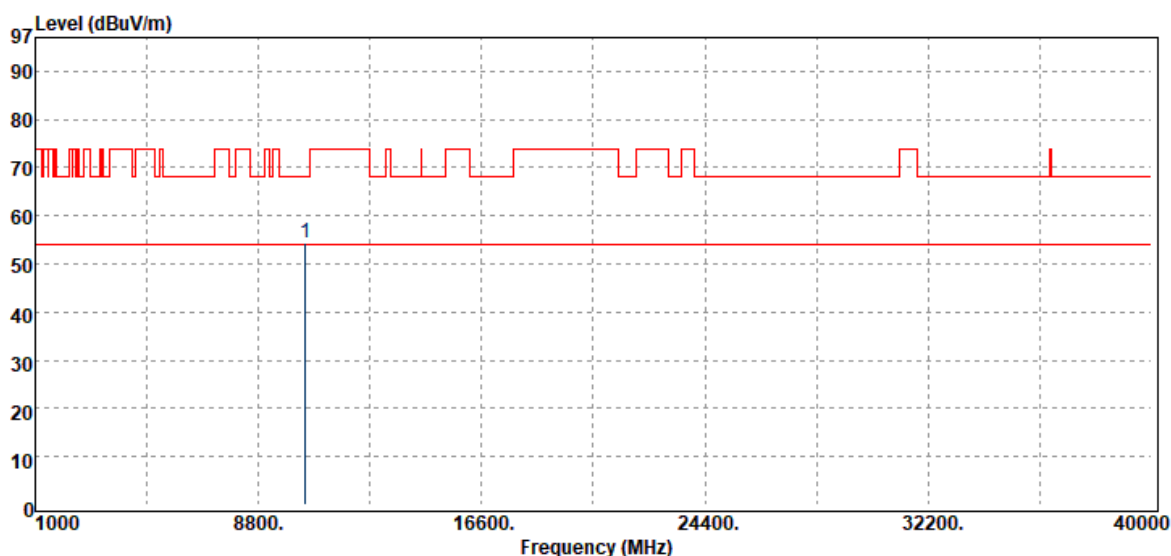
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Report Number :ER/2019/A0107
Operation Mode :802.11a B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane

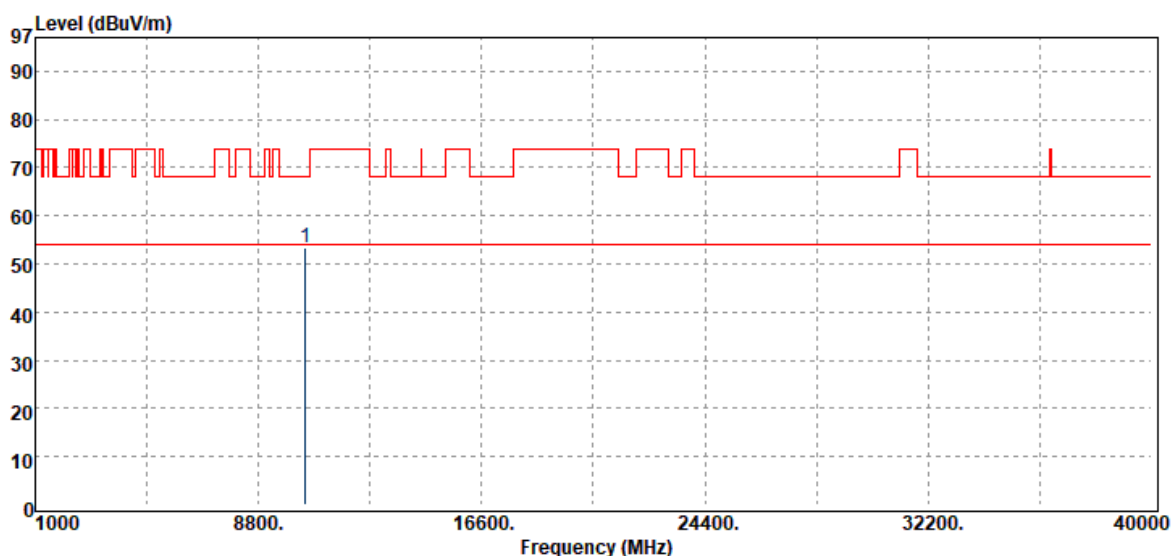


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	35.68	18.53	54.21	68.20	-13.99

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B1	Temp./Humi.	:25.5/63
Test Channel	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		

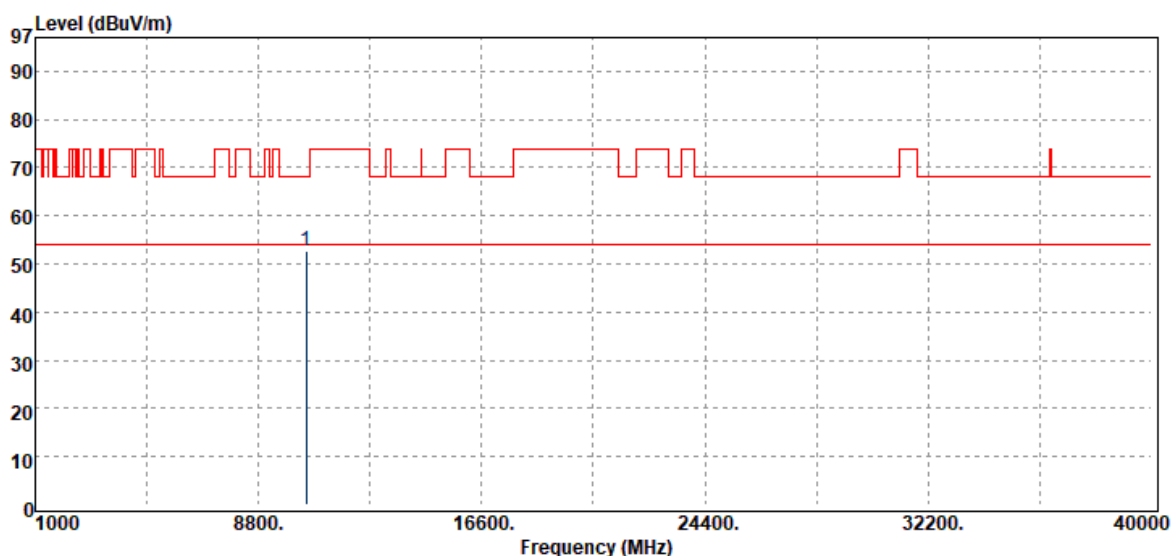


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	34.94	18.53	53.47	68.20	-14.73

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B1	Temp./Humi.	:25.5/63
Test Channel	:5240 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



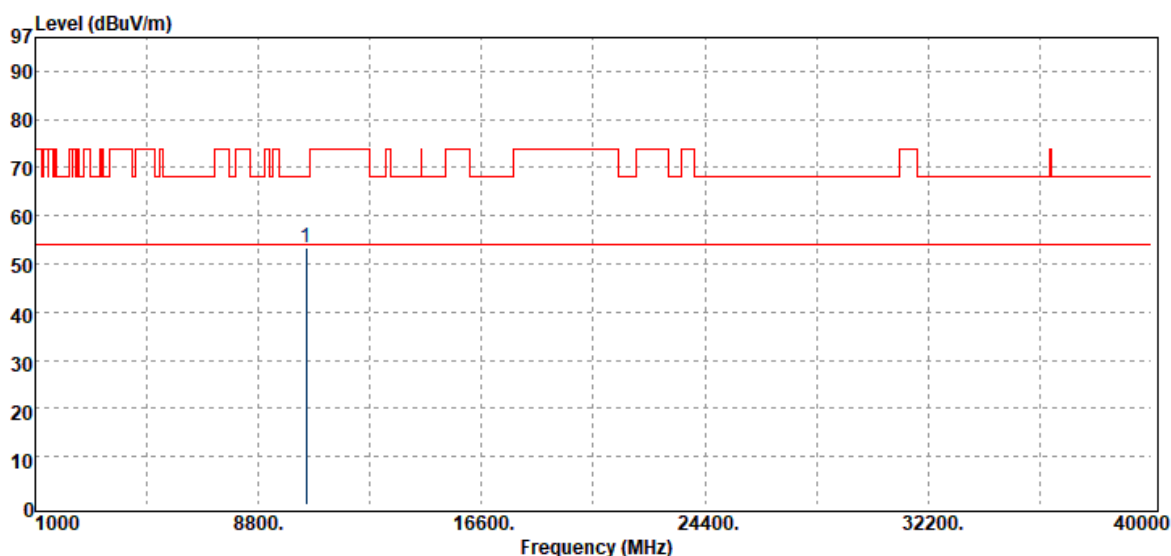
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	34.87	17.83	52.70	68.20	-15.50

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B1	Temp./Humi.	:25.5/63
Test Channel	:5240 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		

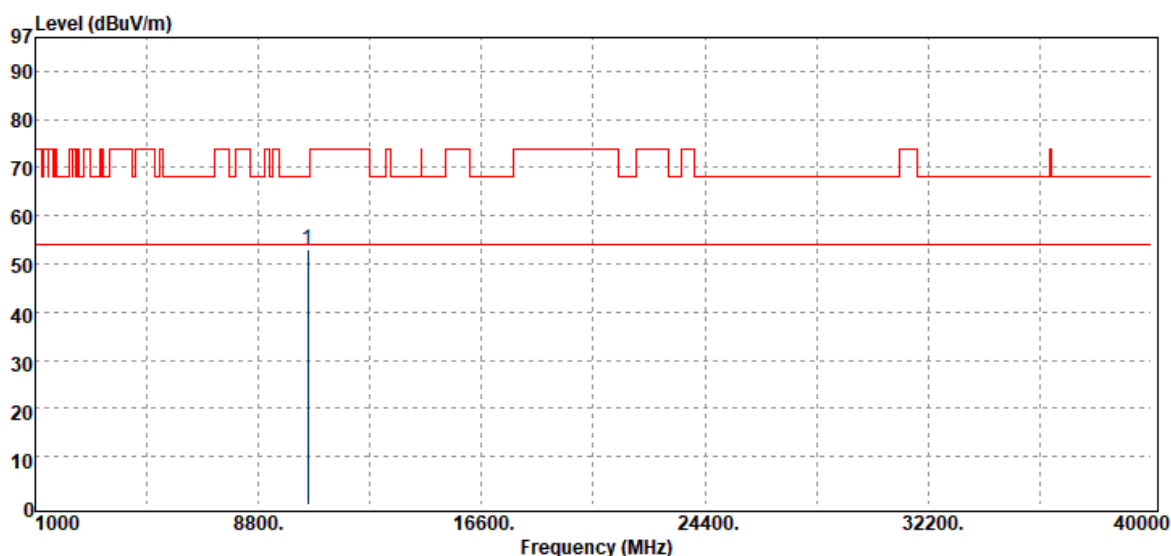


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	35.63	17.83	53.46	68.20	-14.74

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



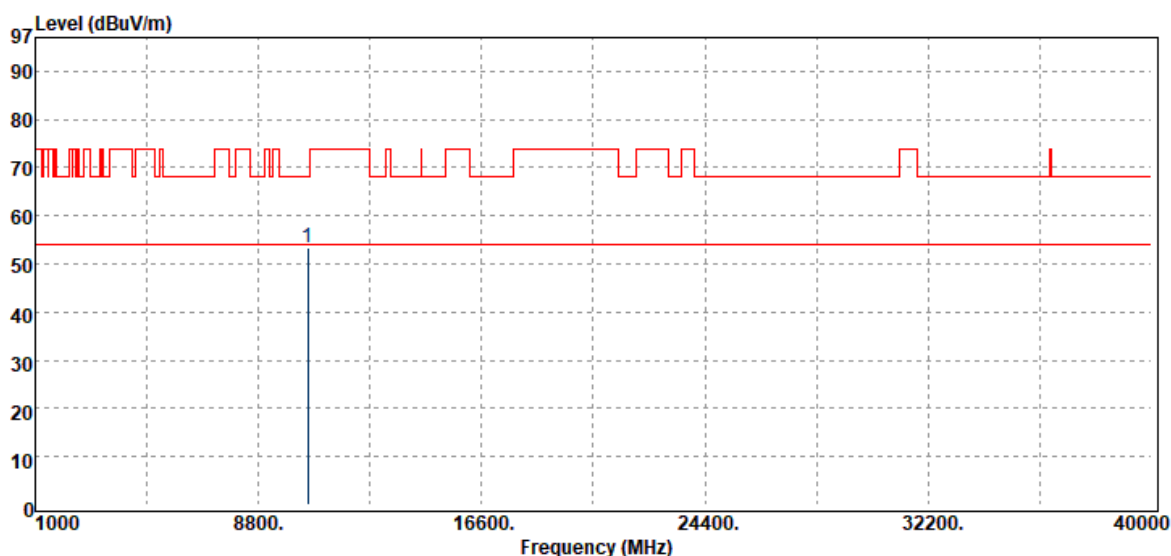
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	34.92	18.05	52.97	68.20	-15.23

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		

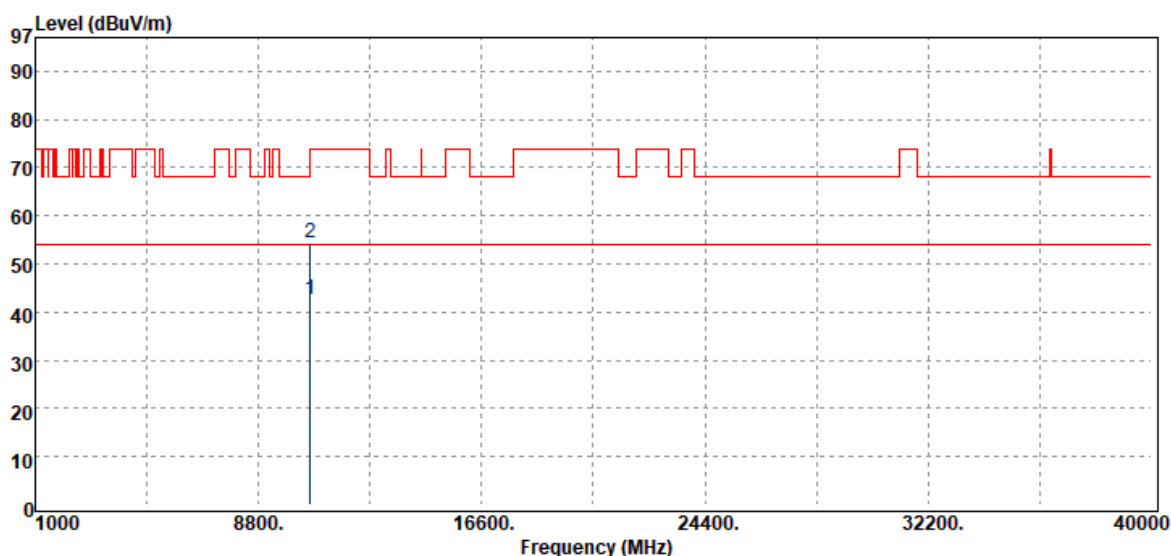


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	35.31	18.05	53.36	68.20	-14.84

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



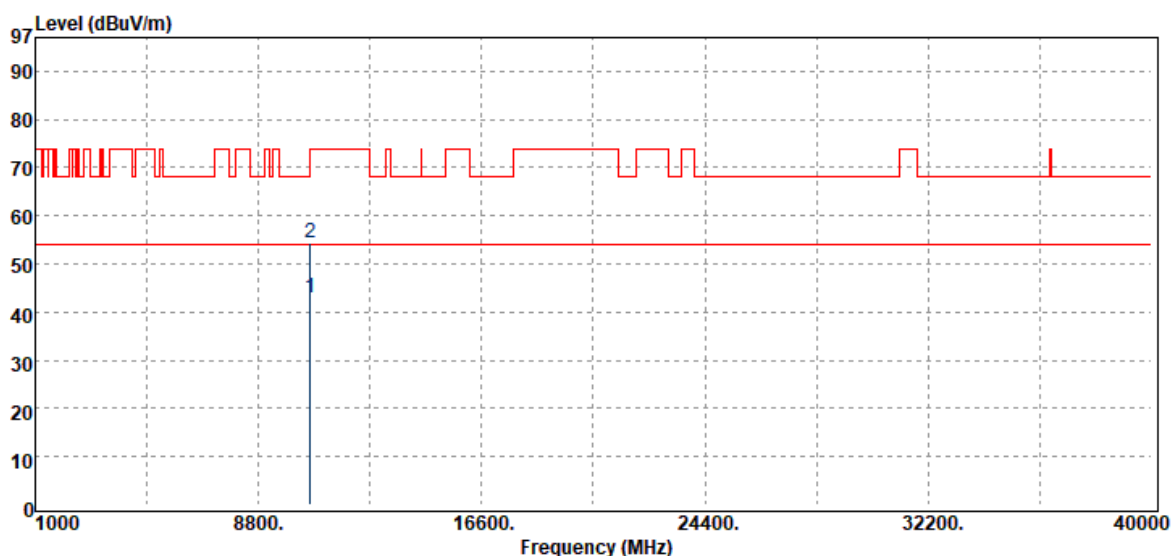
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	23.58	19.18	42.76	54.00	-11.24
10600.00	Peak	35.22	19.18	54.40	74.00	-19.60

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



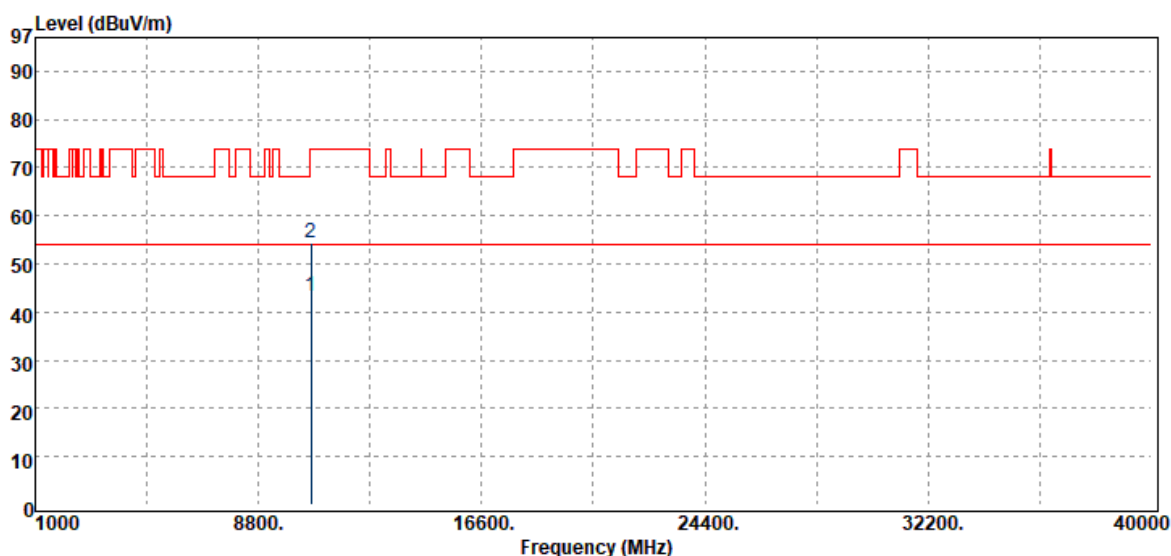
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	23.79	19.18	42.97	54.00	-11.03
10600.00	Peak	35.25	19.18	54.43	74.00	-19.57

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



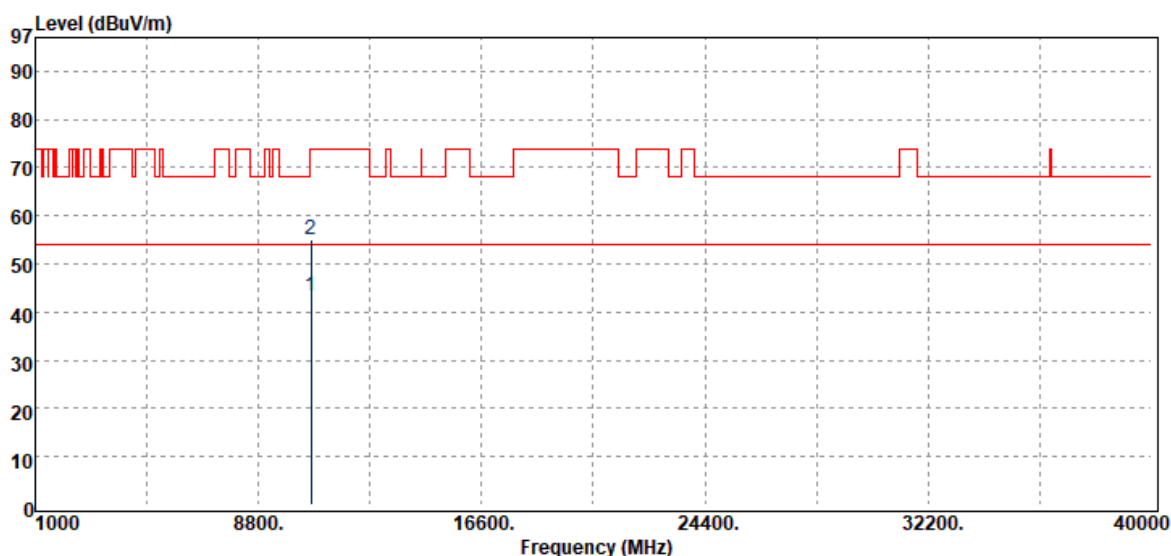
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	23.91	19.49	43.40	54.00	-10.60
10640.00	Peak	34.80	19.49	54.29	74.00	-19.71

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B2	Temp./Humi.	:25.5/63
Test Channel	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



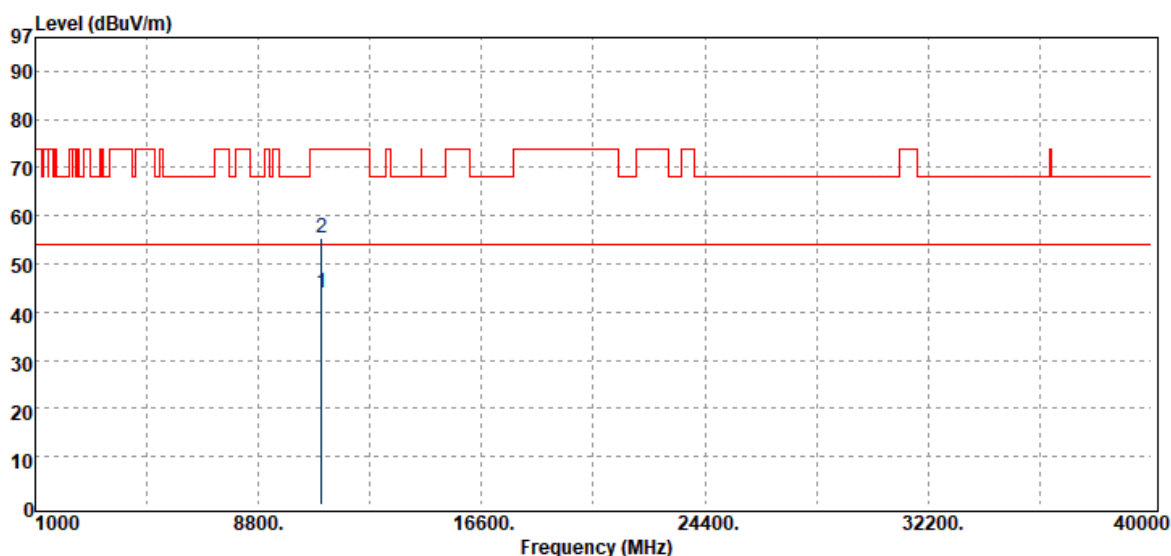
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	23.81	19.49	43.30	54.00	-10.70
10640.00	Peak	35.69	19.49	55.18	74.00	-18.82

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



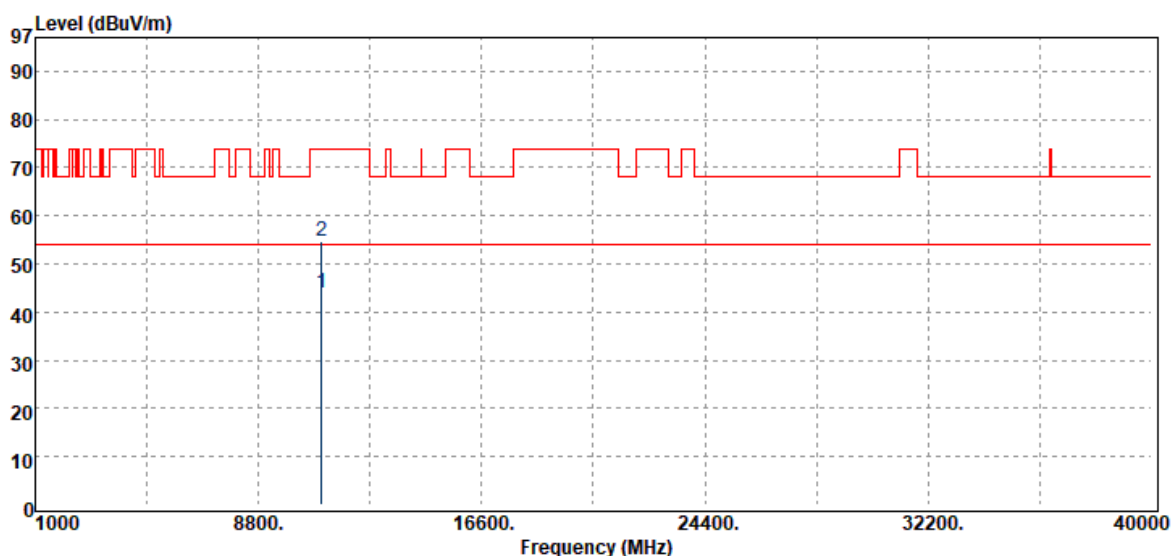
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	23.59	20.49	44.08	54.00	-9.92
11000.00	Peak	34.99	20.49	55.48	74.00	-18.52

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



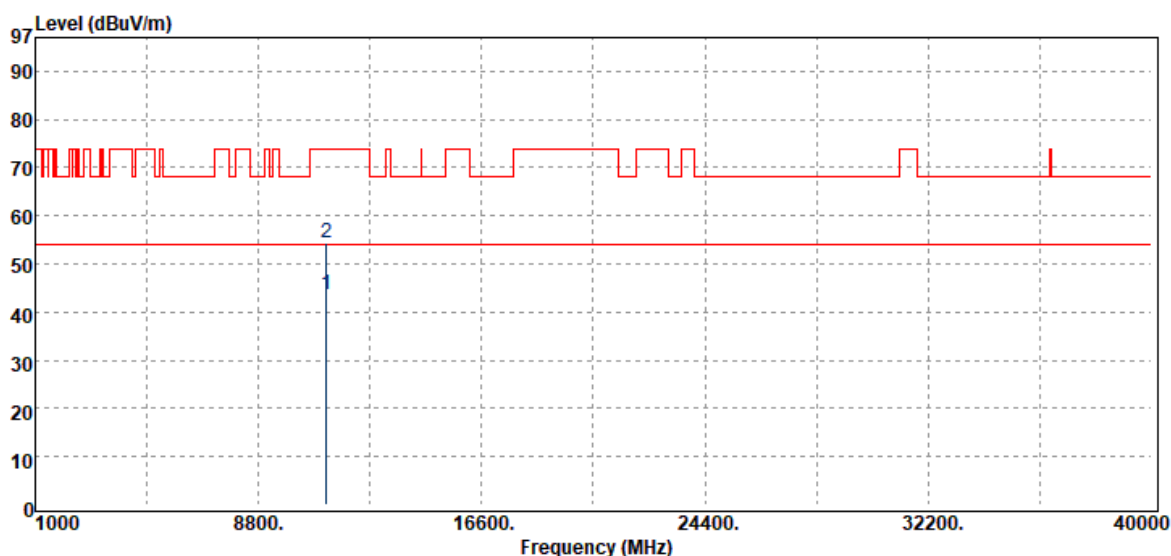
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	23.63	20.49	44.12	54.00	-9.88
11000.00	Peak	34.34	20.49	54.83	74.00	-19.17

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



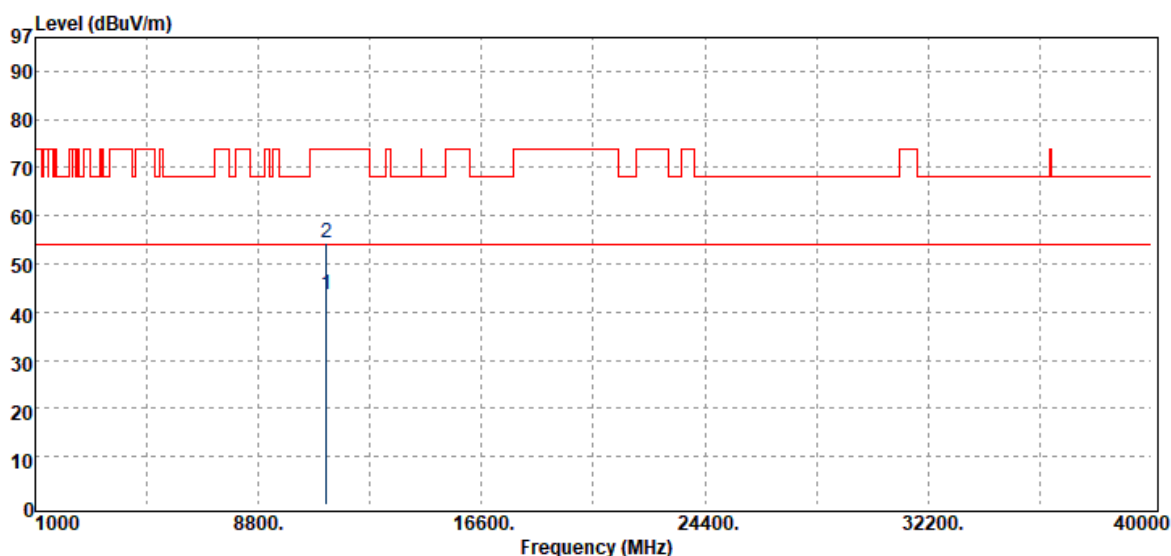
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	23.90	19.71	43.61	54.00	-10.39
11160.00	Peak	34.69	19.71	54.40	74.00	-19.60

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



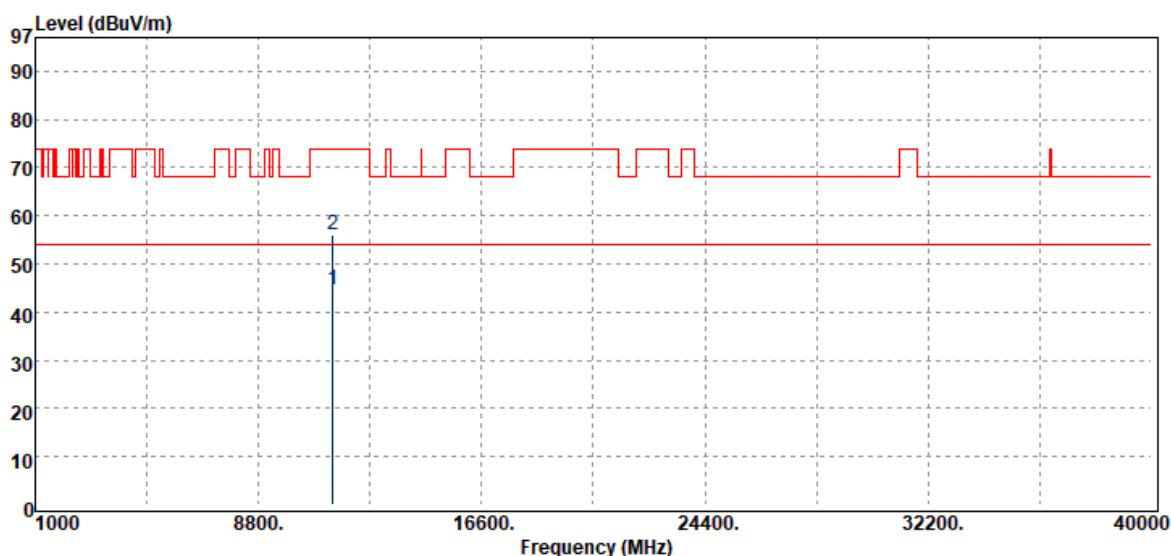
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	23.92	19.71	43.63	54.00	-10.37
11160.00	Peak	34.80	19.71	54.51	74.00	-19.49

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



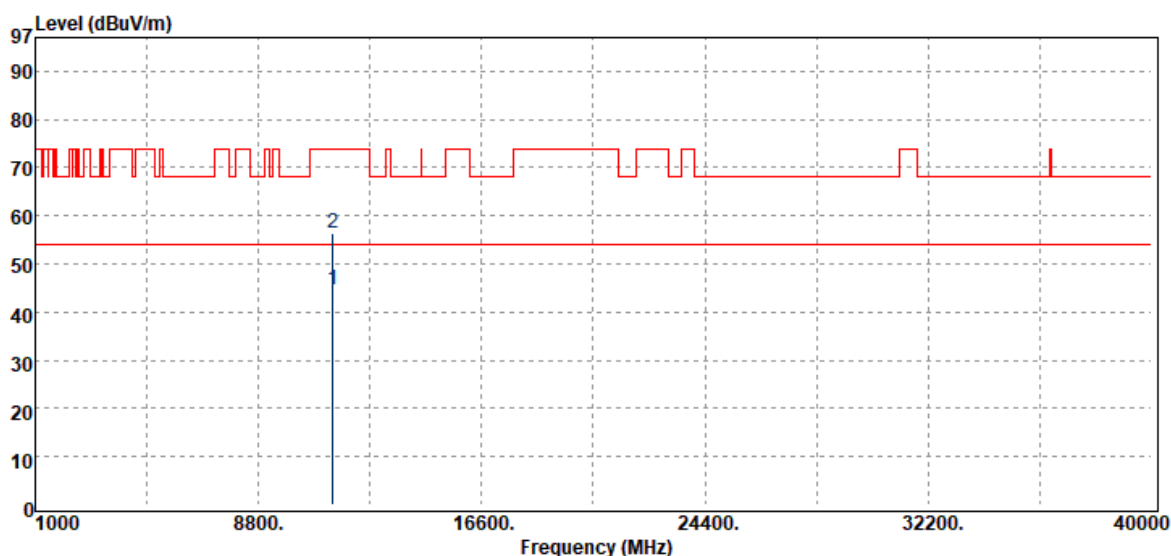
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	23.61	21.10	44.71	54.00	-9.29
11400.00	Peak	34.99	21.10	56.09	74.00	-17.91

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3	Temp./Humi.	:25.5/63
Test Channel	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



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	23.69	21.10	44.79	54.00	-9.21
11400.00	Peak	35.25	21.10	56.35	74.00	-17.65

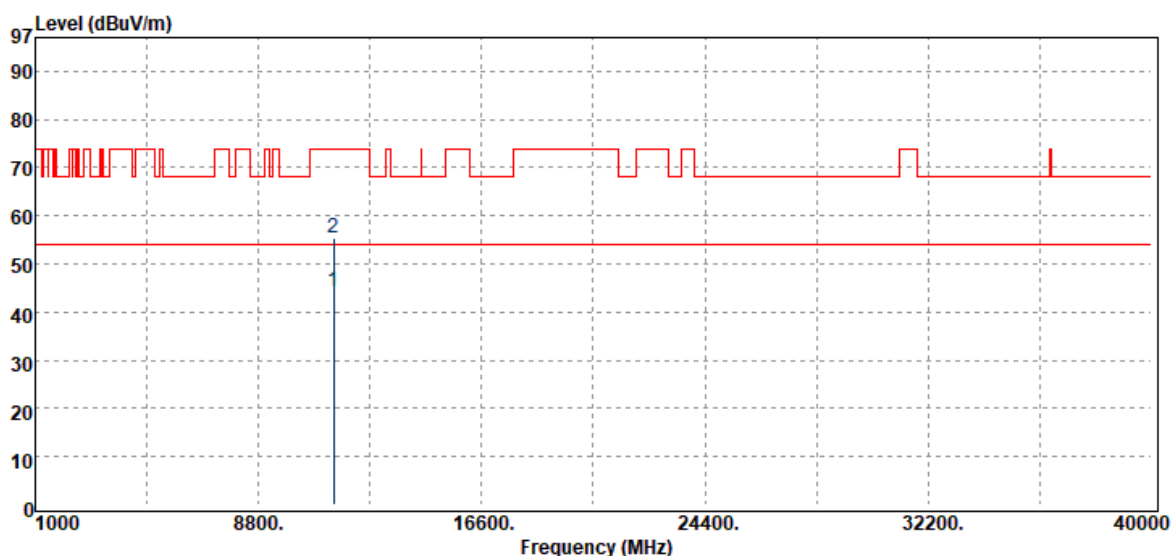
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Report Number :ER/2019/A0107
Operation Mode :802.11a B3/B4
Test Channel :5720 MHz
Test Mode :Tx CH 144
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



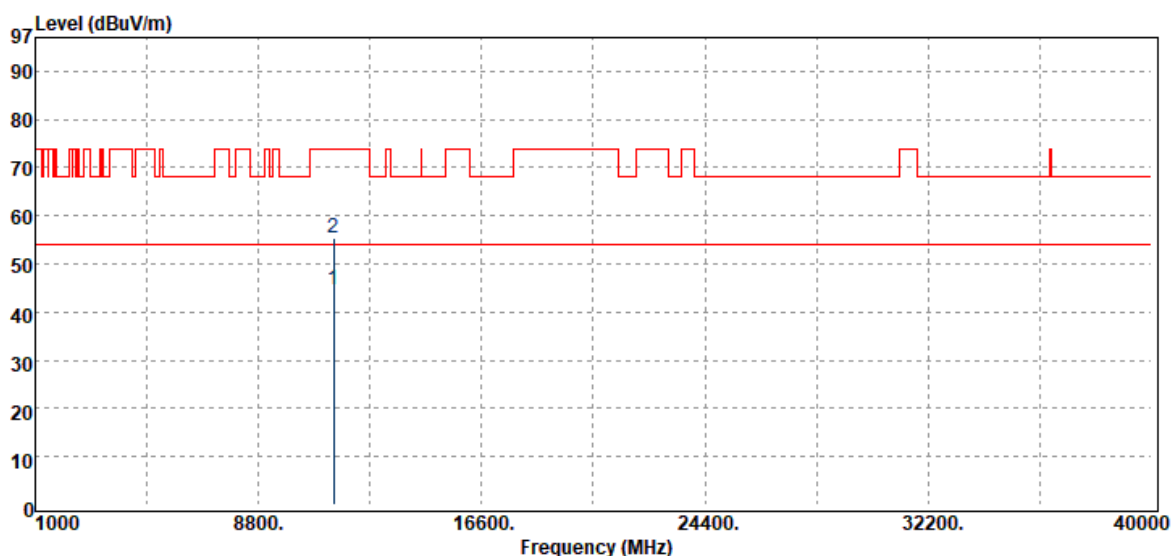
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	23.52	20.74	44.26	54.00	-9.74
11440.00	Peak	34.50	20.74	55.24	74.00	-18.76

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5720 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH 144	Engineer	:Kane
EUT Pol	:E1 Plane		



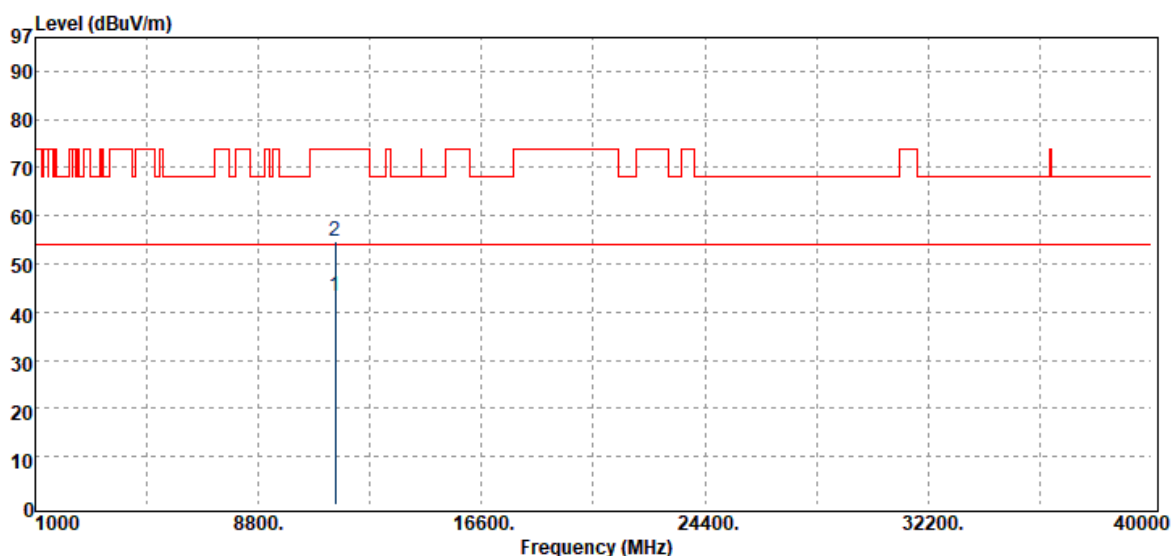
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	23.73	20.74	44.47	54.00	-9.53
11440.00	Peak	34.59	20.74	55.33	74.00	-18.67

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



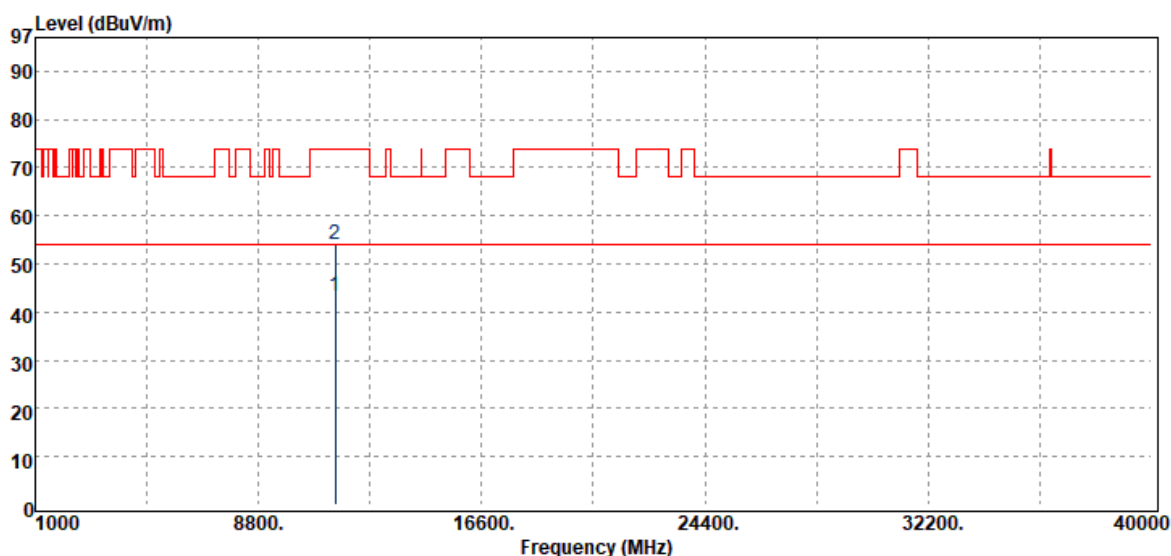
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	23.63	19.66	43.29	54.00	-10.71
11490.00	Peak	34.95	19.66	54.61	74.00	-19.39

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



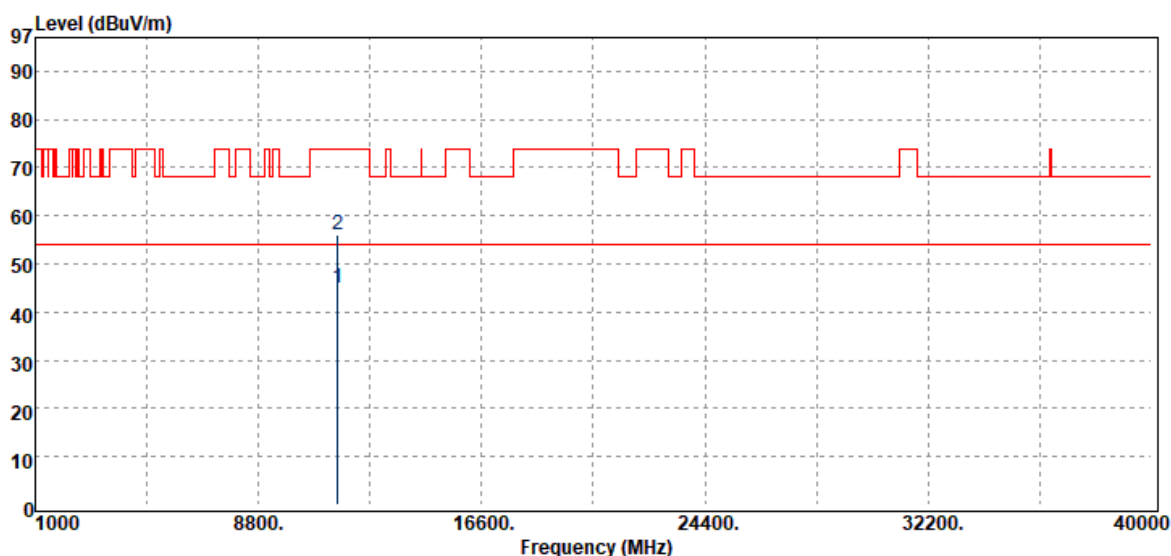
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	23.54	19.66	43.20	54.00	-10.80
11490.00	Peak	34.45	19.66	54.11	74.00	-19.89

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5785 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



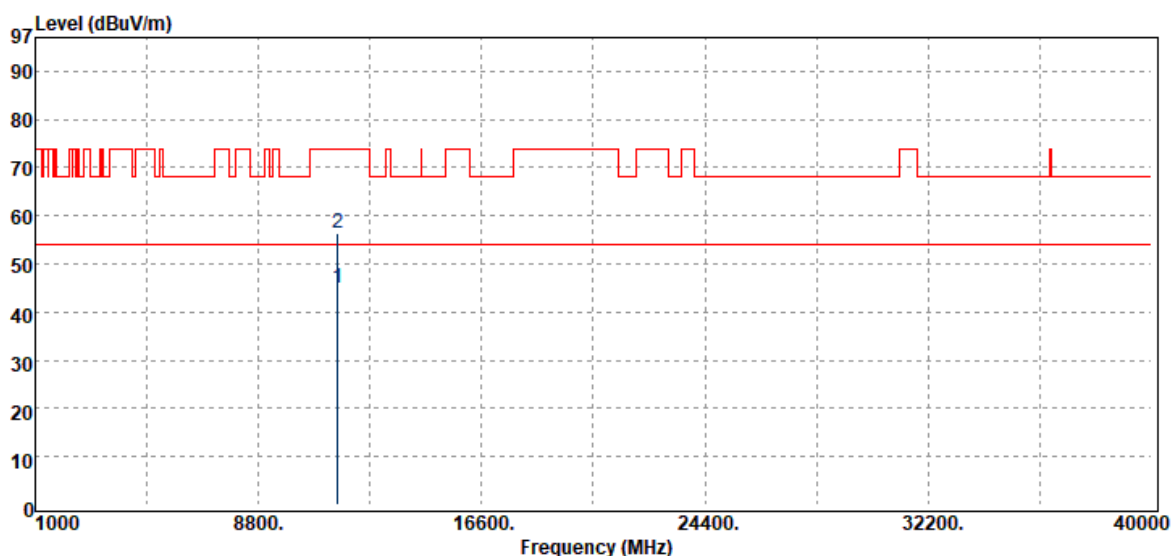
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	23.88	20.93	44.81	54.00	-9.19
11570.00	Peak	35.18	20.93	56.11	74.00	-17.89

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5785 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



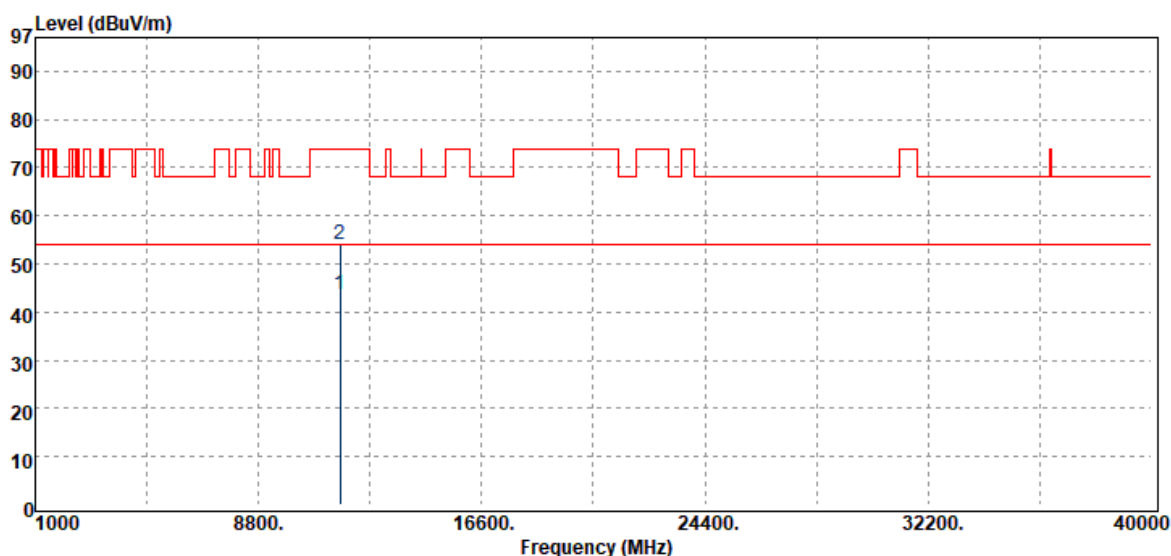
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	23.93	20.93	44.86	54.00	-9.14
11570.00	Peak	35.36	20.93	56.29	74.00	-17.71

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



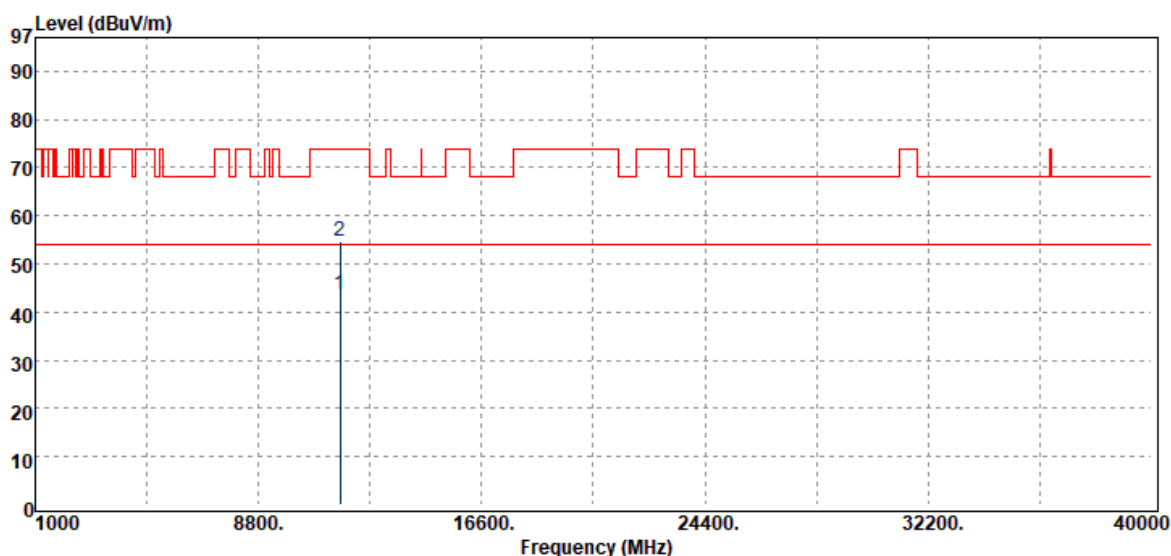
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	23.72	20.07	43.79	54.00	-10.21
11650.00	Peak	34.08	20.07	54.15	74.00	-19.85

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11a B4	Temp./Humi.	:25.5/63
Test Channel	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



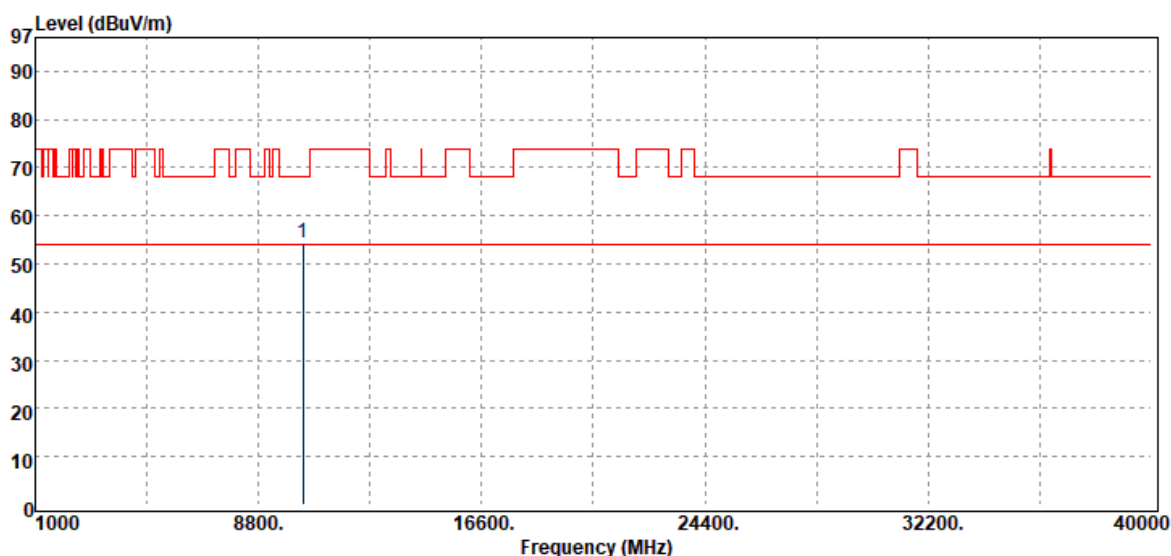
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	23.53	20.07	43.60	54.00	-10.40
11650.00	Peak	34.65	20.07	54.72	74.00	-19.28

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B1	Temp./Humi.	:25.5/63
Test Channel	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



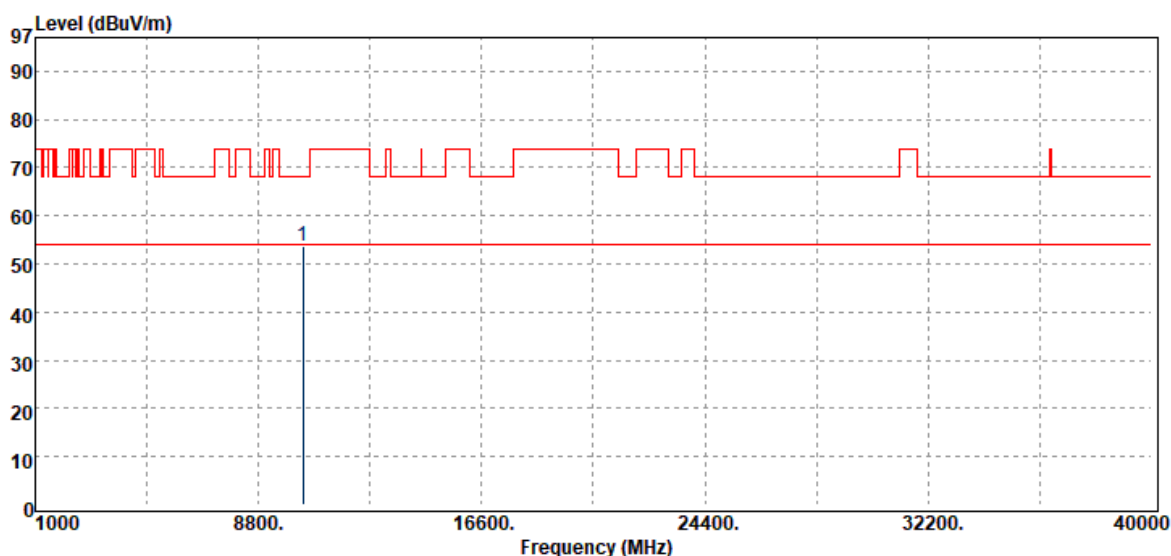
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	35.49	18.72	54.21	68.20	-13.99

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B1	Temp./Humi.	:25.5/63
Test Channel	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		

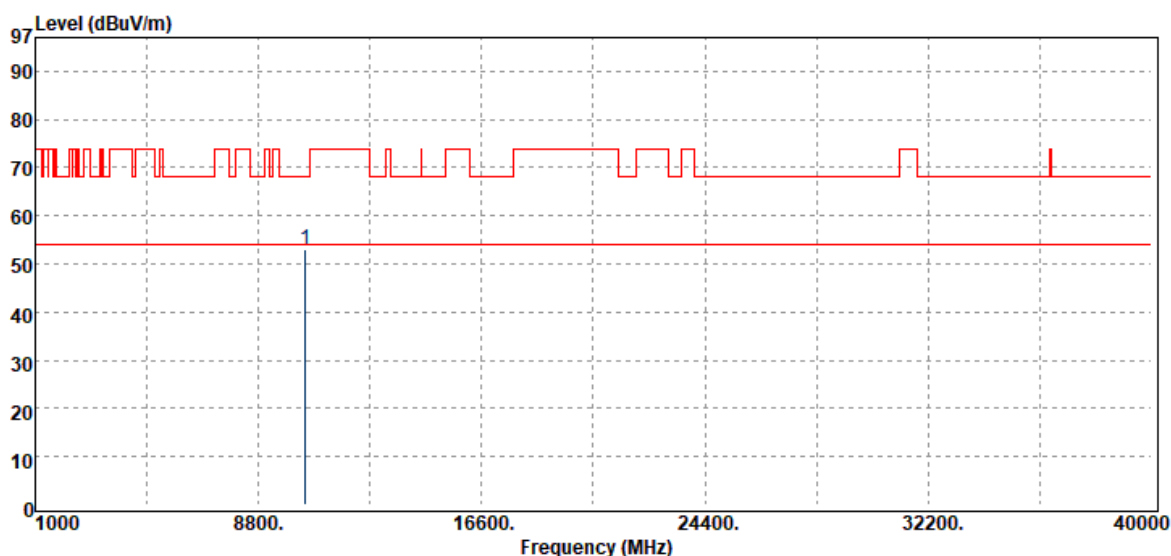


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	35.06	18.72	53.78	68.20	-14.42

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B1	Temp./Humi.	:25.5/63
Test Channel	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



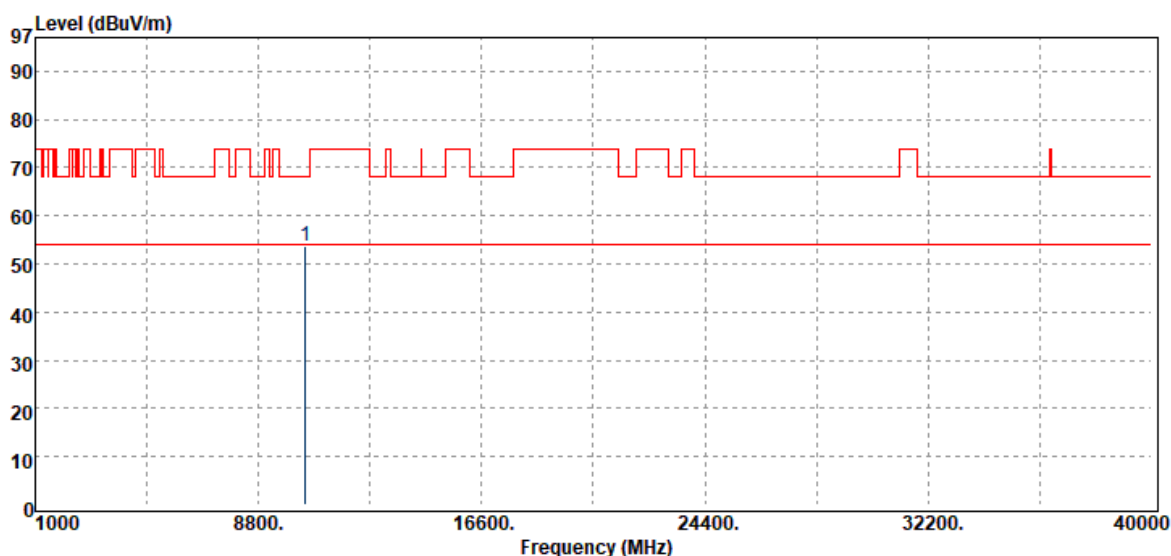
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	34.41	18.53	52.94	68.20	-15.26

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B1	Temp./Humi.	:25.5/63
Test Channel	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



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	35.32	18.53	53.85	68.20	-14.35

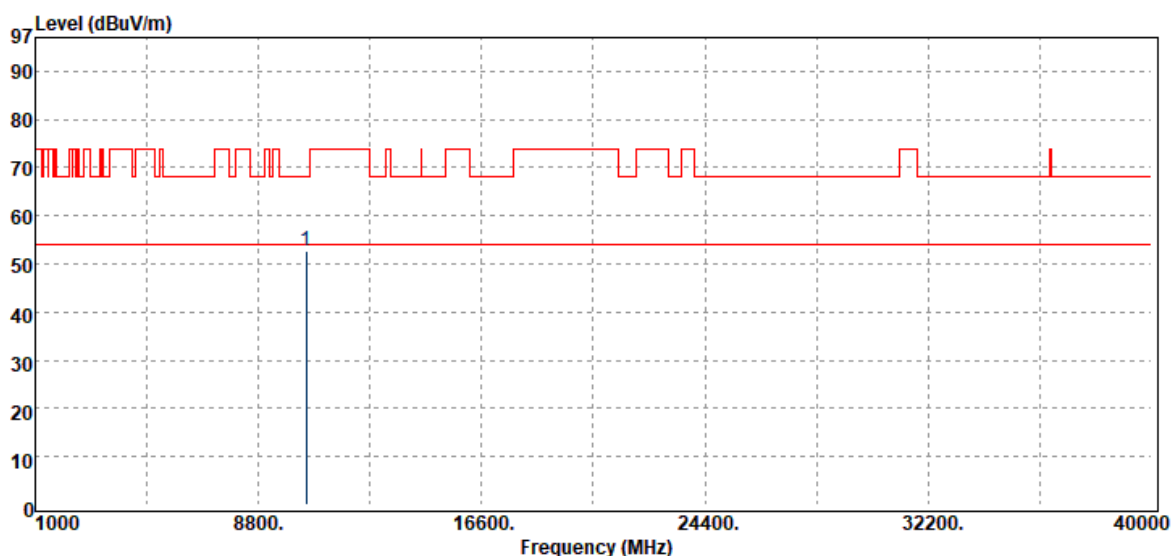
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Report Number :ER/2019/A0107
 Operation Mode :802.11n20 B1
 Test Channel :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E1 Plane

Test Date :2019-11-18
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kane



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	34.88	17.83	52.71	68.20	-15.49

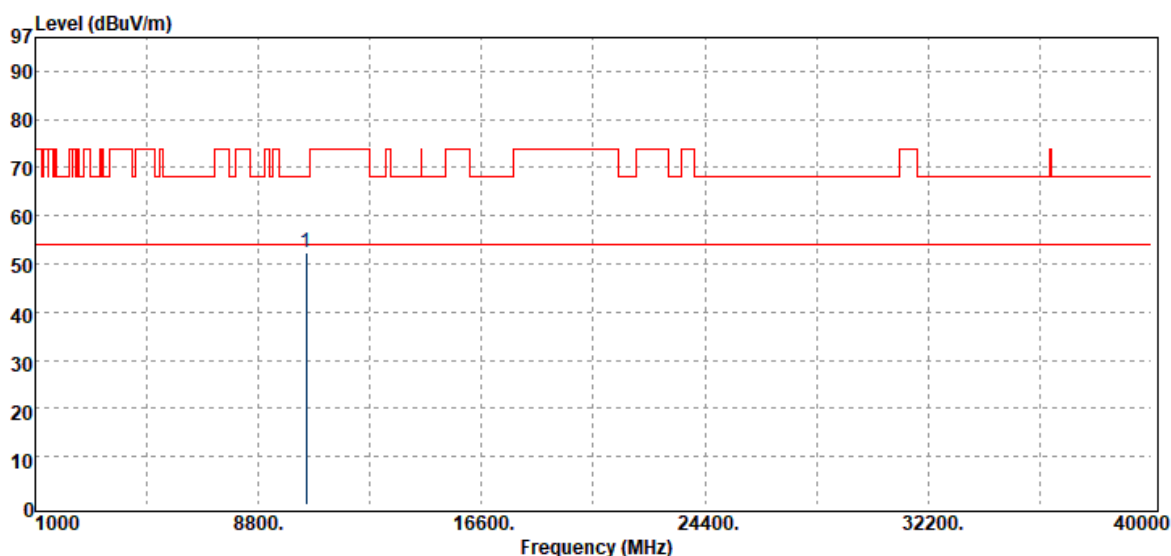
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Report Number :ER/2019/A0107
Operation Mode :802.11n20 B1
Test Channel :5240 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kane



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	34.43	17.83	52.26	68.20	-15.94

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台灣檢驗科技股份有限公司

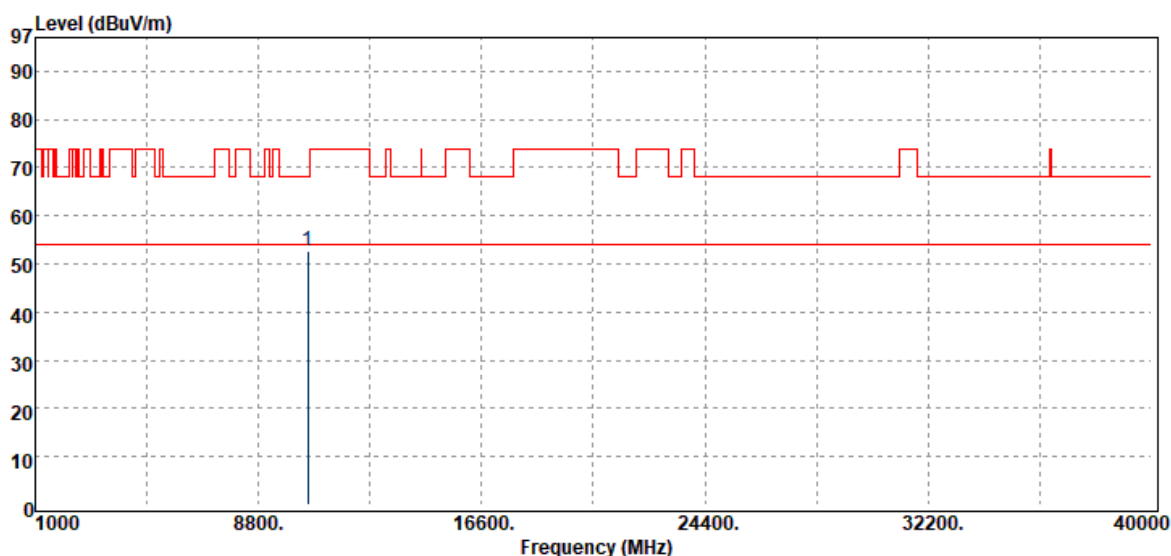
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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B2	Temp./Humi.	:25.5/63
Test Channel	:5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



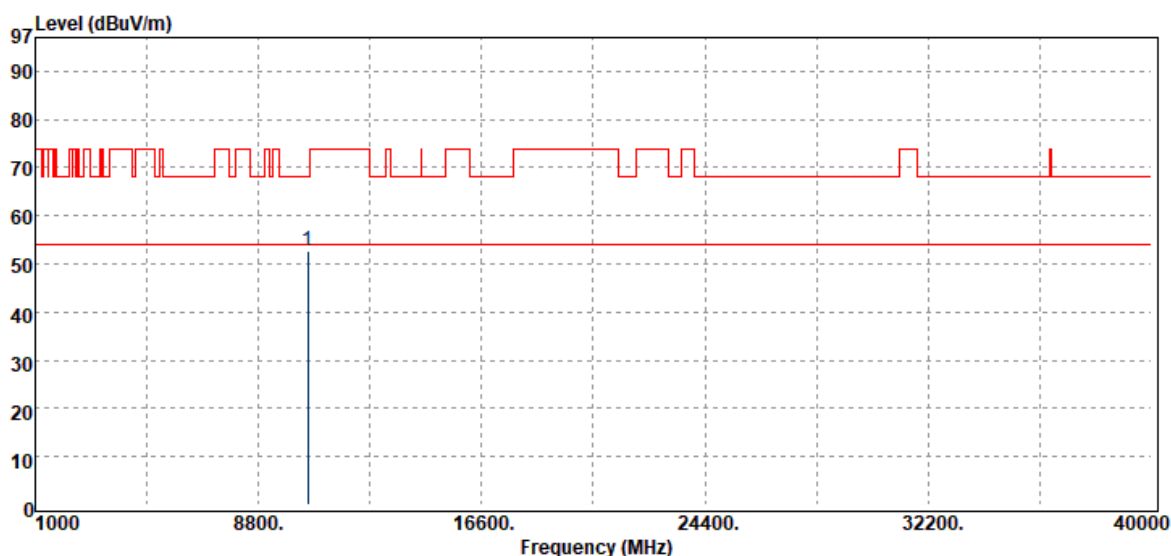
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	34.67	18.05	52.72	68.20	-15.48

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B2	Temp./Humi.	:25.5/63
Test Channel	:5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



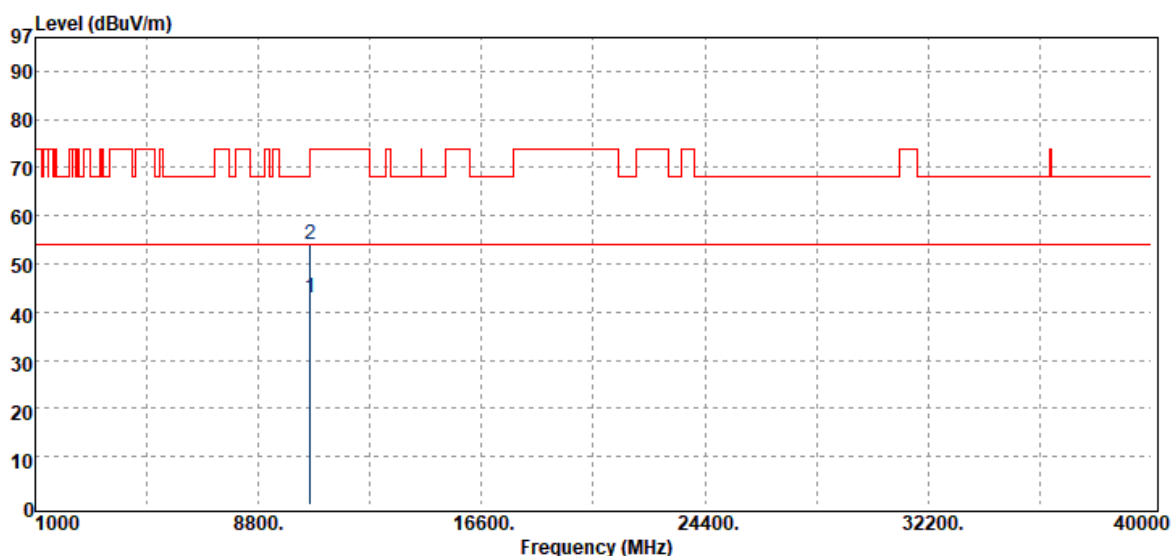
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	34.72	18.05	52.77	68.20	-15.43

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B2	Temp./Humi.	:25.5/63
Test Channel	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



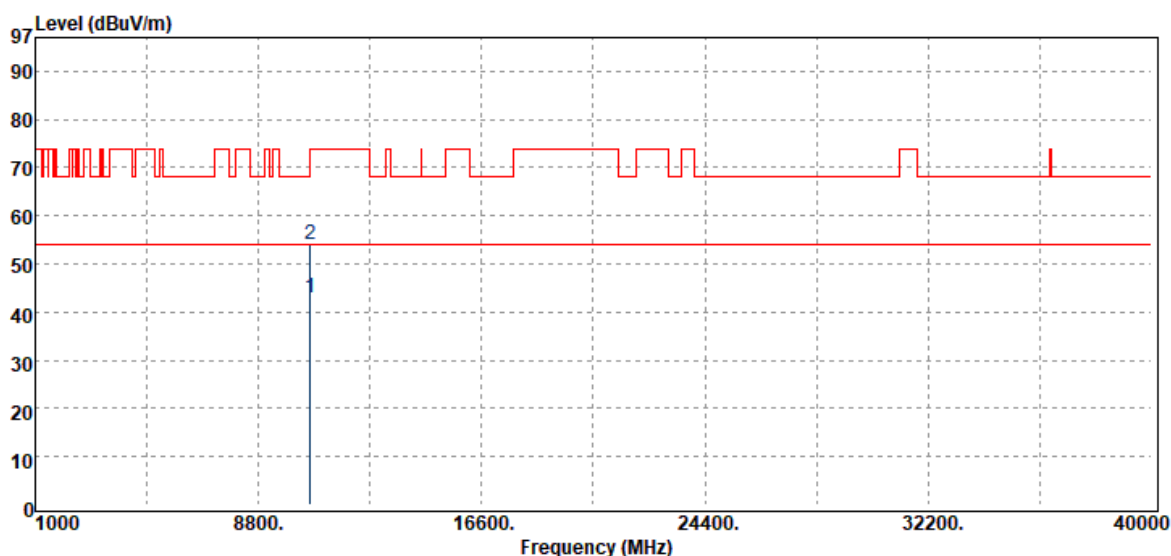
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	23.89	19.18	43.07	54.00	-10.93
10600.00	Peak	35.02	19.18	54.20	74.00	-19.80

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B2	Temp./Humi.	:25.5/63
Test Channel	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



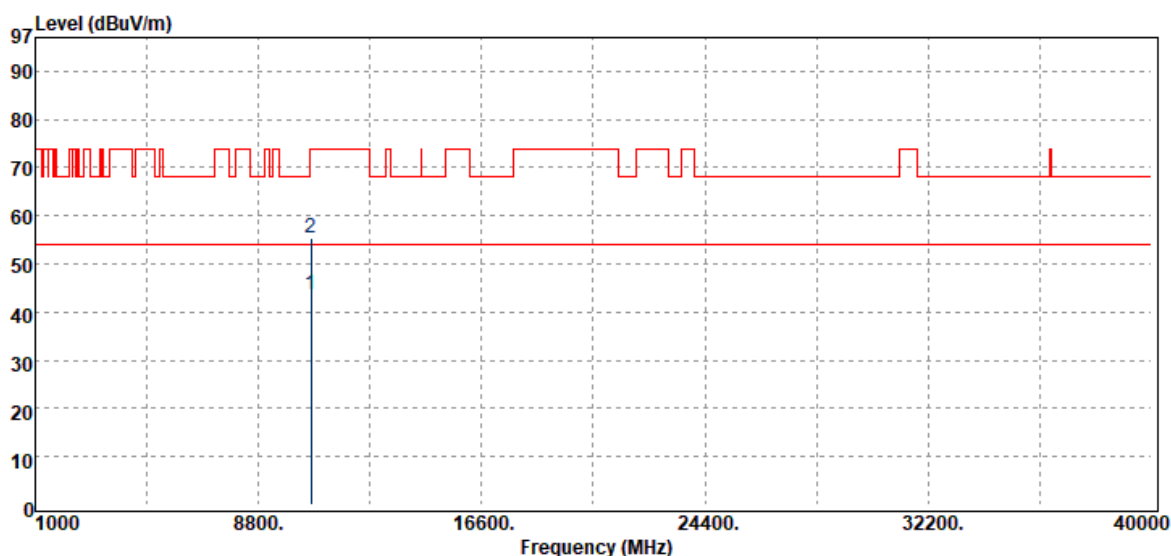
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	23.94	19.18	43.12	54.00	-10.88
10600.00	Peak	34.80	19.18	53.98	74.00	-20.02

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B2	Temp./Humi.	:25.5/63
Test Channel	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		

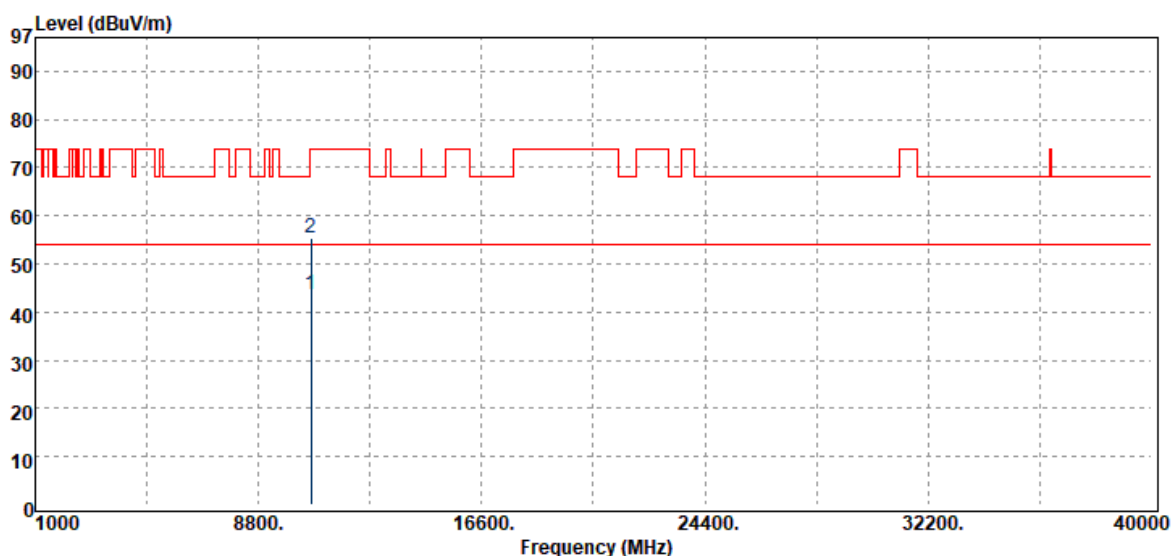


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	24.16	19.49	43.65	54.00	-10.35
10640.00	Peak	35.78	19.49	55.27	74.00	-18.73

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B2	Temp./Humi.	:25.5/63
Test Channel	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



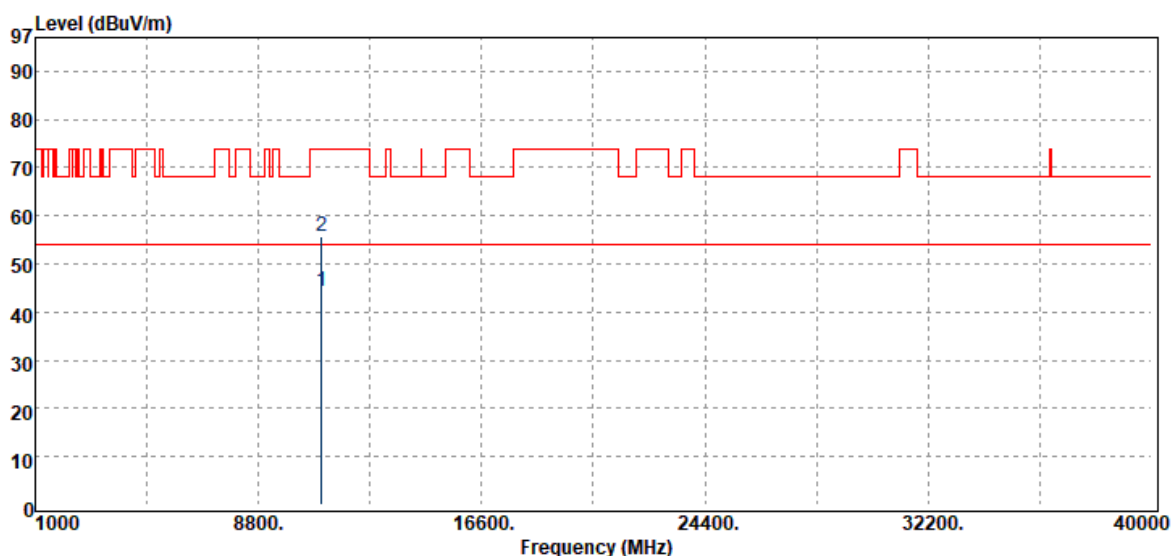
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	24.21	19.49	43.70	54.00	-10.30
10640.00	Peak	35.80	19.49	55.29	74.00	-18.71

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3	Temp./Humi.	:25.5/63
Test Channel	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



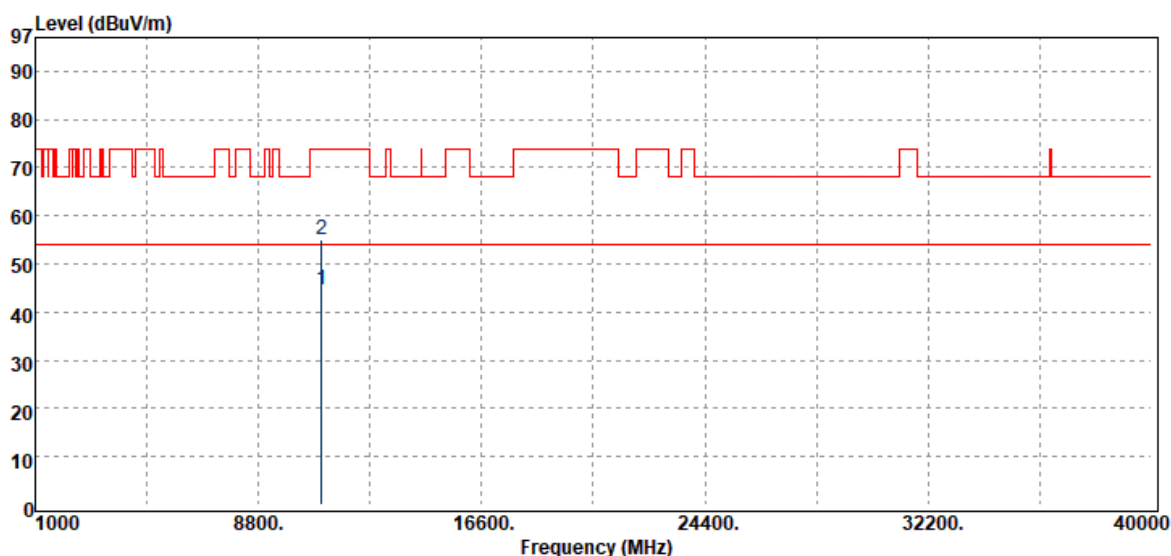
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	23.81	20.49	44.30	54.00	-9.70
11000.00	Peak	35.11	20.49	55.60	74.00	-18.40

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3	Temp./Humi.	:25.5/63
Test Channel	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		

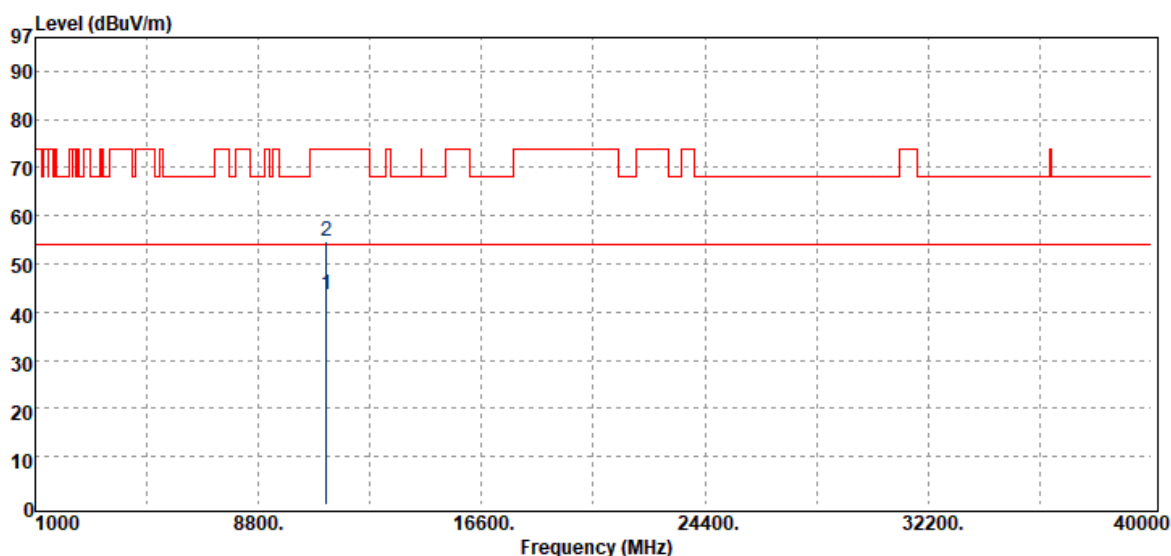


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	24.08	20.49	44.57	54.00	-9.43
11000.00	Peak	34.44	20.49	54.93	74.00	-19.07

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3	Temp./Humi.	:25.5/63
Test Channel	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



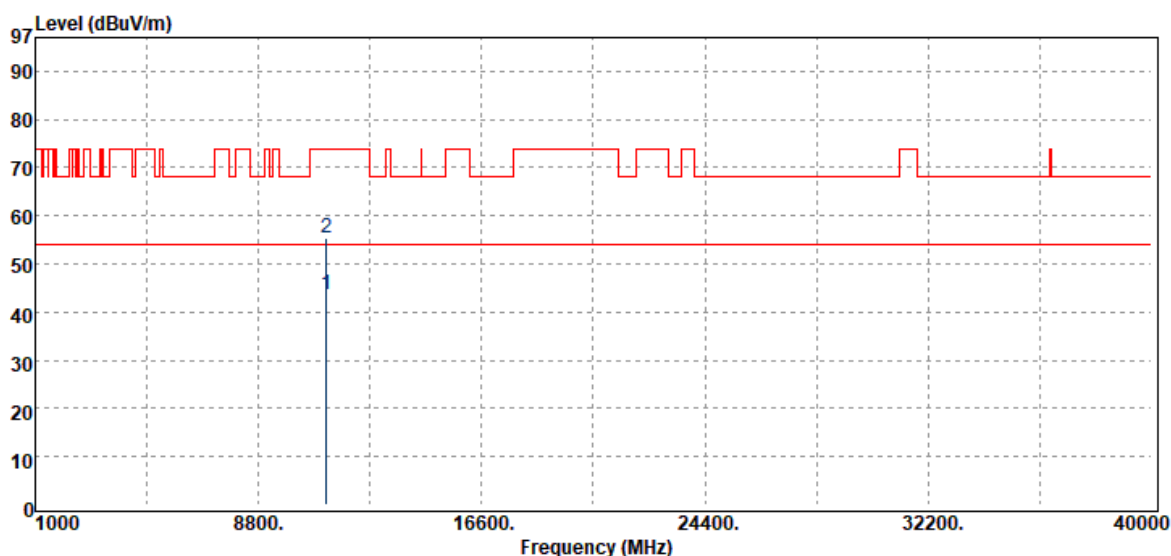
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	23.93	19.71	43.64	54.00	-10.36
11160.00	Peak	34.96	19.71	54.67	74.00	-19.33

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3	Temp./Humi.	:25.5/63
Test Channel	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



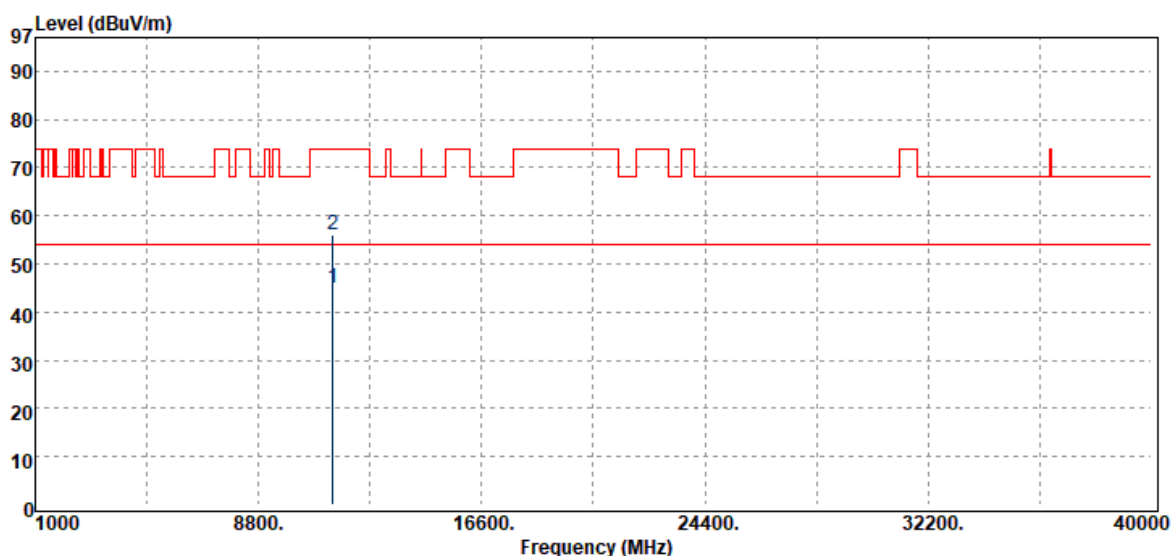
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	24.00	19.71	43.71	54.00	-10.29
11160.00	Peak	35.82	19.71	55.53	74.00	-18.47

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3	Temp./Humi.	:25.5/63
Test Channel	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



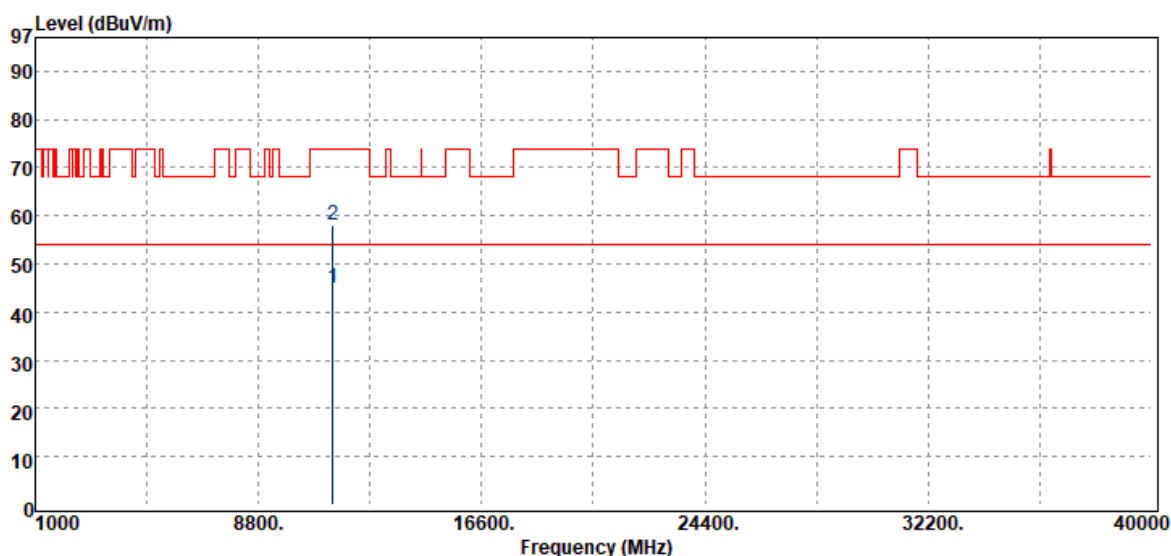
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	23.76	21.10	44.86	54.00	-9.14
11400.00	Peak	34.82	21.10	55.92	74.00	-18.08

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3	Temp./Humi.	:25.5/63
Test Channel	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



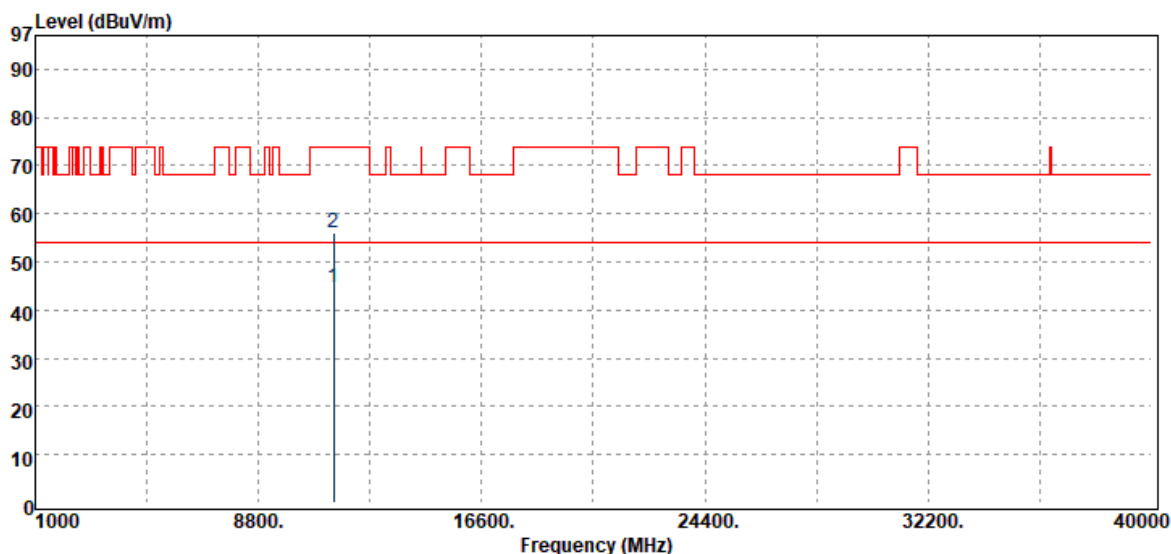
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	23.76	21.10	44.86	54.00	-9.14
11400.00	Peak	37.04	21.10	58.14	74.00	-15.86

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5720 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH 144	Engineer	:Kane
EUT Pol	:E1 Plane		



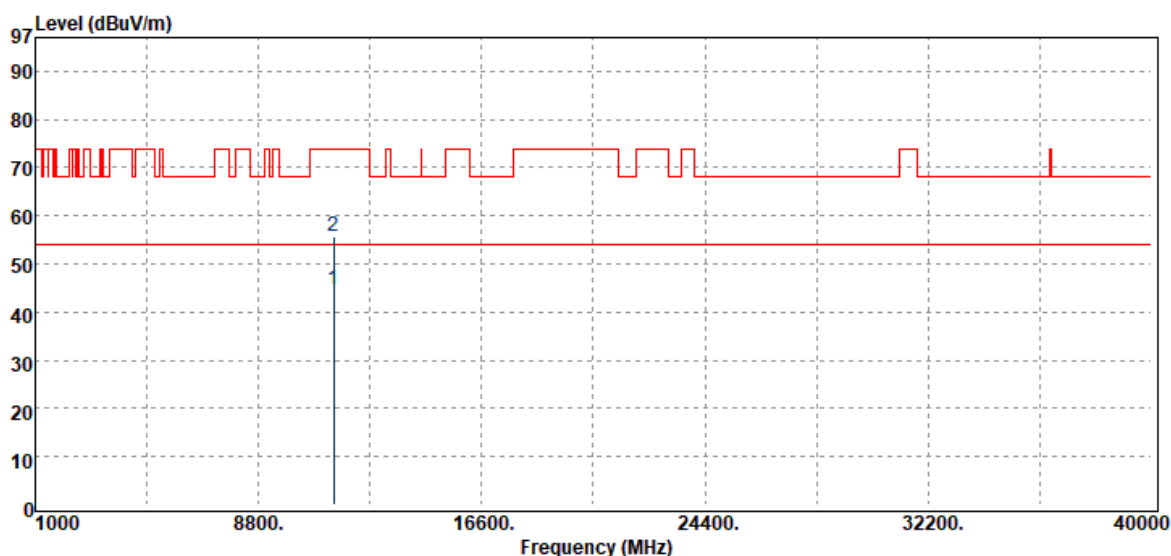
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	23.84	20.74	44.58	54.00	-9.42
11440.00	Peak	35.27	20.74	56.01	74.00	-17.99

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5720 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH 144	Engineer	:Kane
EUT Pol	:E1 Plane		



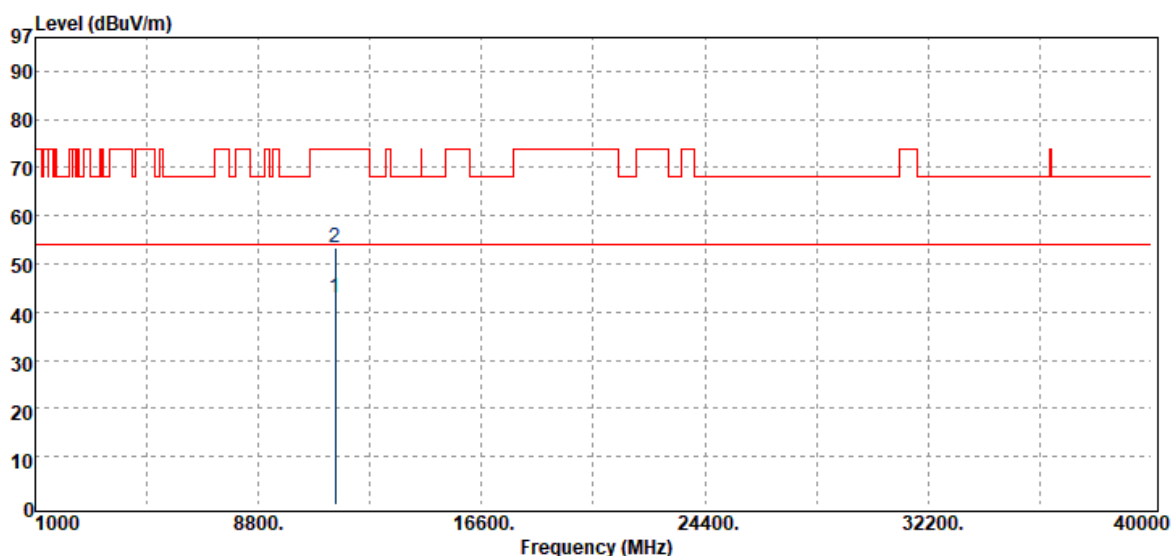
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	23.95	20.74	44.69	54.00	-9.31
11440.00	Peak	35.10	20.74	55.84	74.00	-18.16

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B4	Temp./Humi.	:25.5/63
Test Channel	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



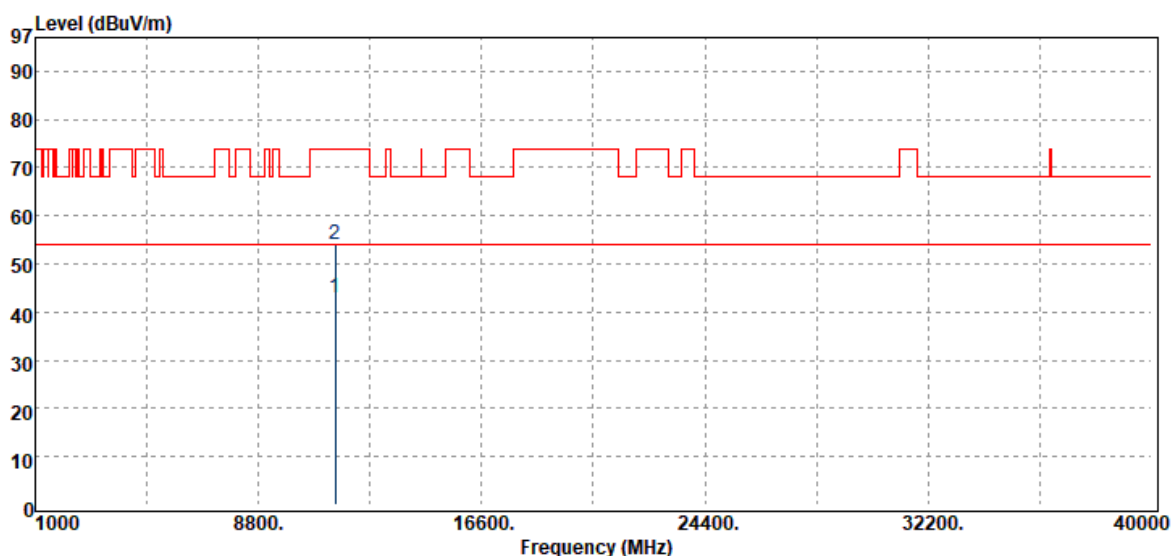
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	23.34	19.66	43.00	54.00	-11.00
11490.00	Peak	33.76	19.66	53.42	74.00	-20.58

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B4	Temp./Humi.	:25.5/63
Test Channel	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



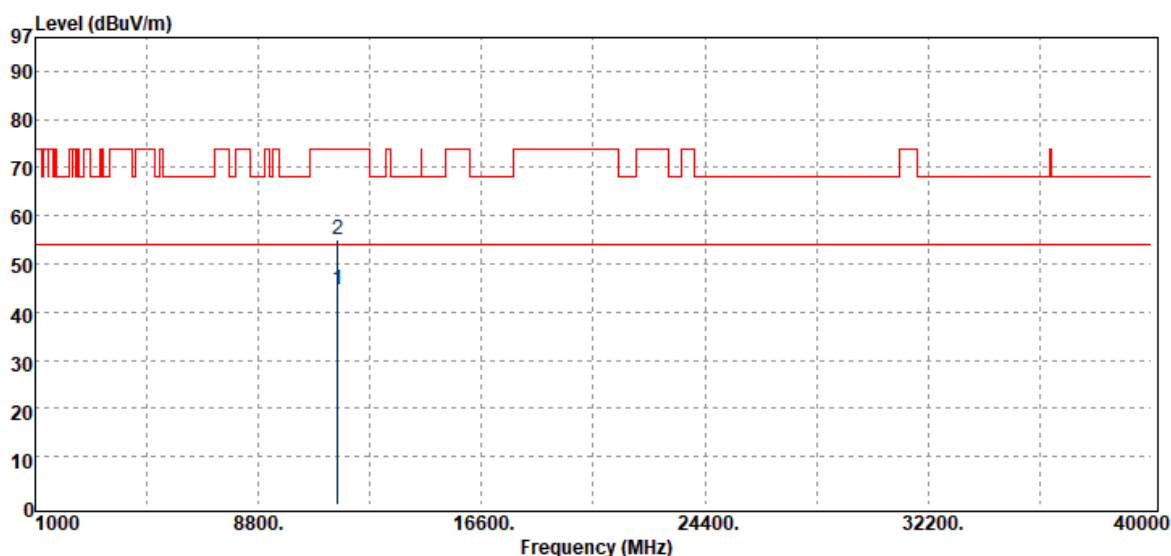
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	23.30	19.66	42.96	54.00	-11.04
11490.00	Peak	34.54	19.66	54.20	74.00	-19.80

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B4	Temp./Humi.	:25.5/63
Test Channel	:5785 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



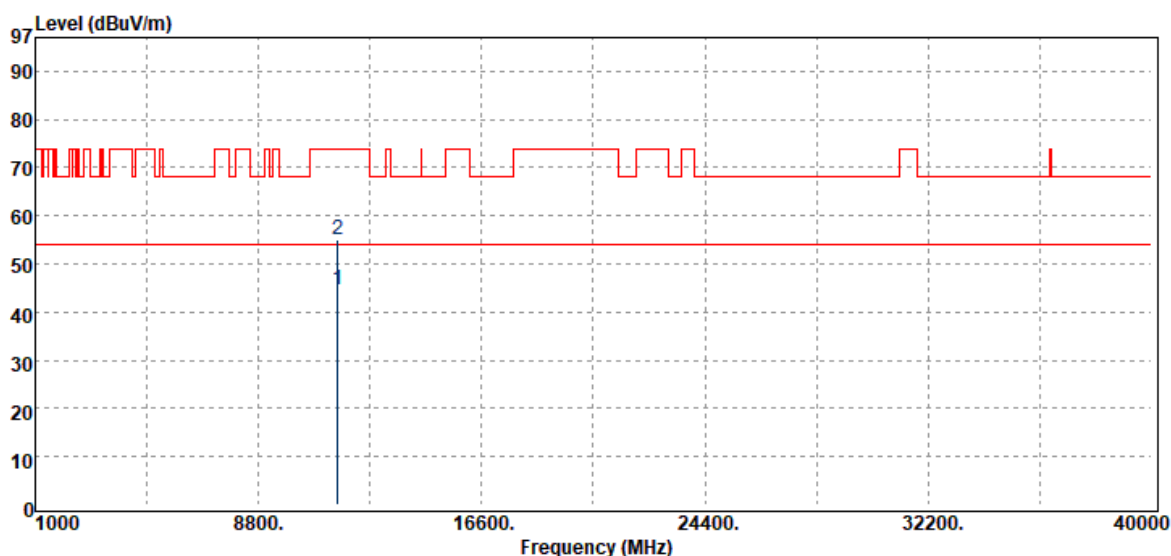
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	23.77	20.93	44.70	54.00	-9.30
11570.00	Peak	34.16	20.93	55.09	74.00	-18.91

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B4	Temp./Humi.	:25.5/63
Test Channel	:5785 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



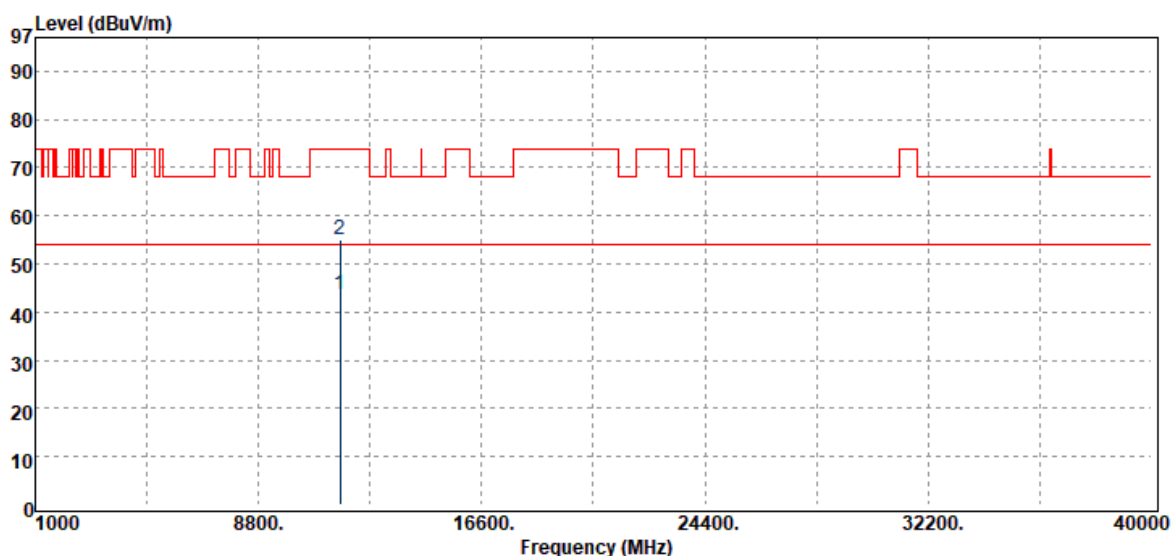
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	23.84	20.93	44.77	54.00	-9.23
11570.00	Peak	34.18	20.93	55.11	74.00	-18.89

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B4	Temp./Humi.	:25.5/63
Test Channel	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



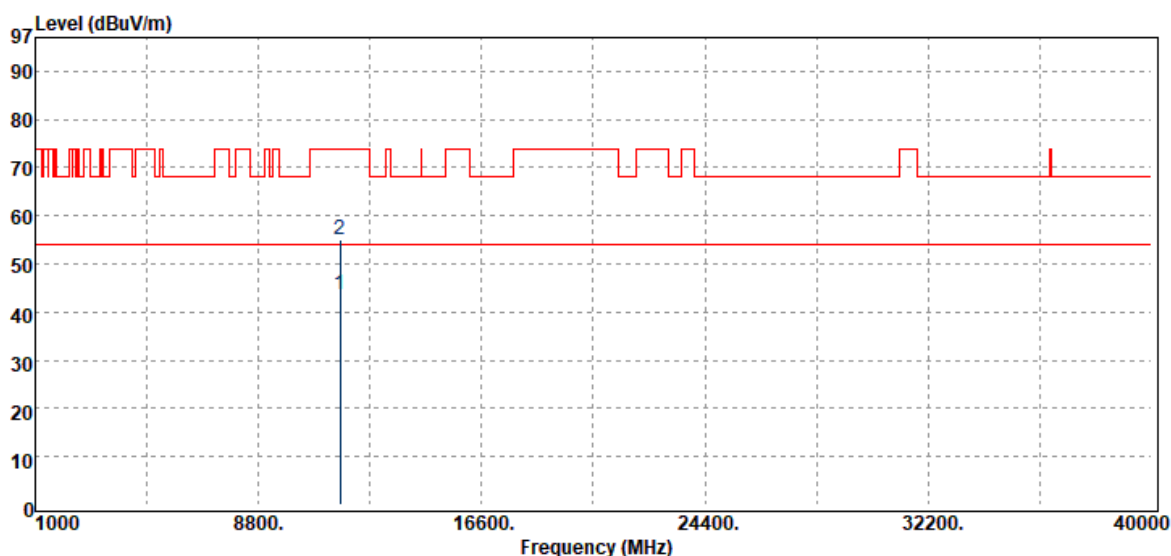
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	23.41	20.07	43.48	54.00	-10.52
11650.00	Peak	34.94	20.07	55.01	74.00	-18.99

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n20 B4	Temp./Humi.	:25.5/63
Test Channel	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



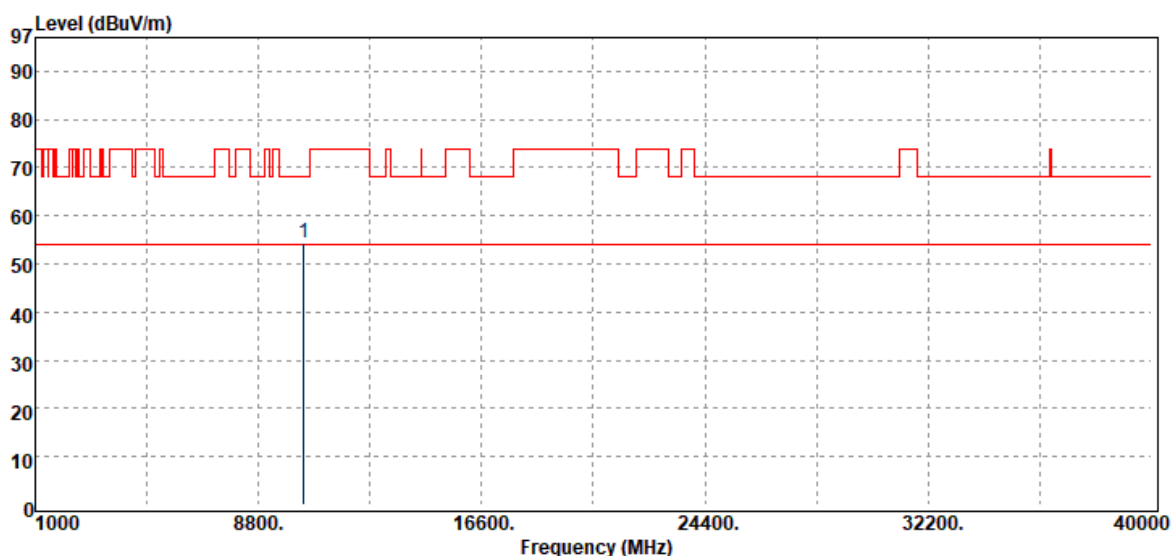
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	23.56	20.07	43.63	54.00	-10.37
11650.00	Peak	34.98	20.07	55.05	74.00	-18.95

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B1	Temp./Humi.	:25.5/63
Test Channel	:5190 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



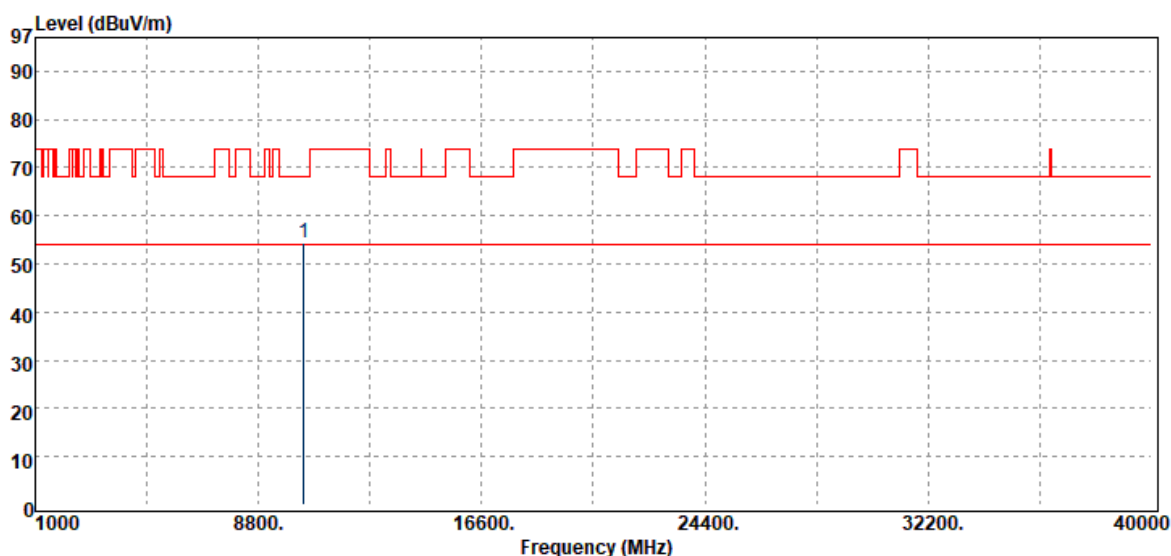
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	35.46	19.00	54.46	68.20	-13.74

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B1	Temp./Humi.	:25.5/63
Test Channel	:5190 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		

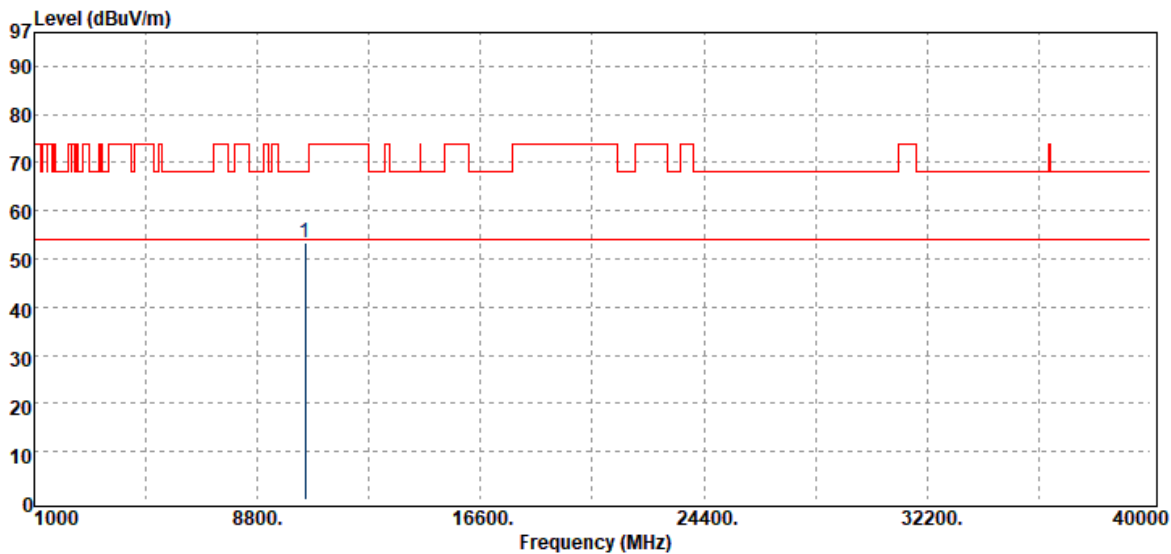


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	35.28	19.00	54.28	68.20	-13.92

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B1	Temp./Humi.	:25.5/63
Test Channel	:5230 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



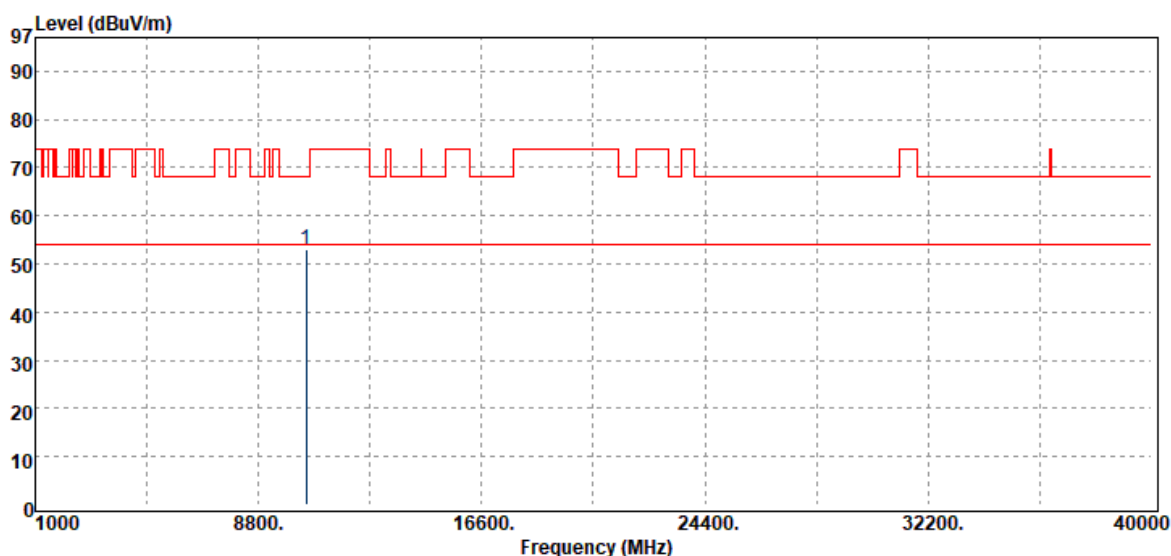
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	35.11	18.11	53.22	68.20	-14.98

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B1	Temp./Humi.	:25.5/63
Test Channel	:5230 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



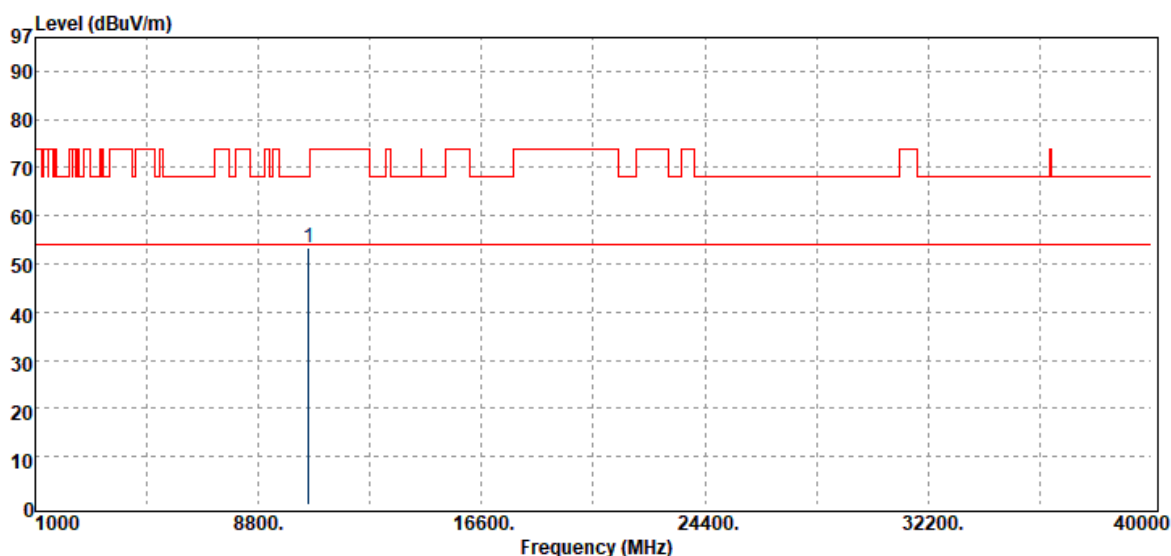
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	34.93	18.11	53.04	68.20	-15.16

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B2	Temp./Humi.	:25.5/63
Test Channel	:5270 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



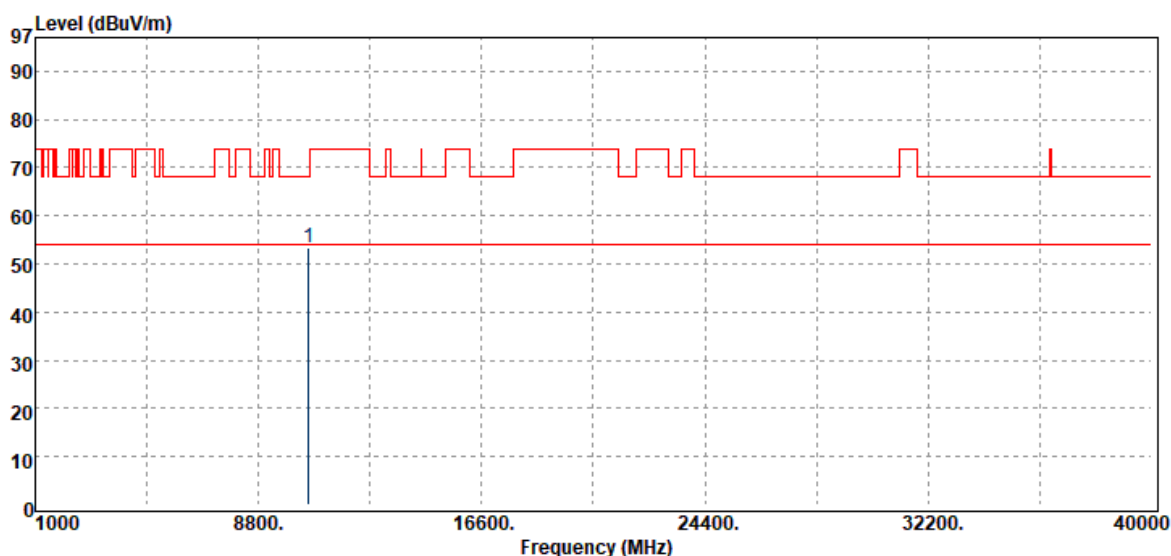
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	34.87	18.38	53.25	68.20	-14.95

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B2	Temp./Humi.	:25.5/63
Test Channel	:5270 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



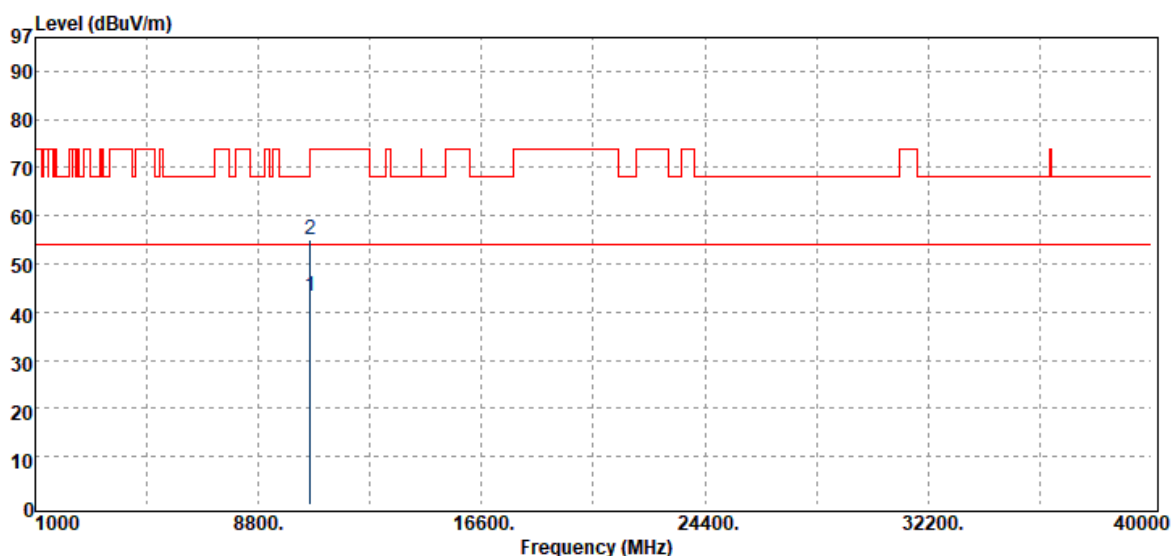
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	34.98	18.38	53.36	68.20	-14.84

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B2	Temp./Humi.	:25.5/63
Test Channel	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



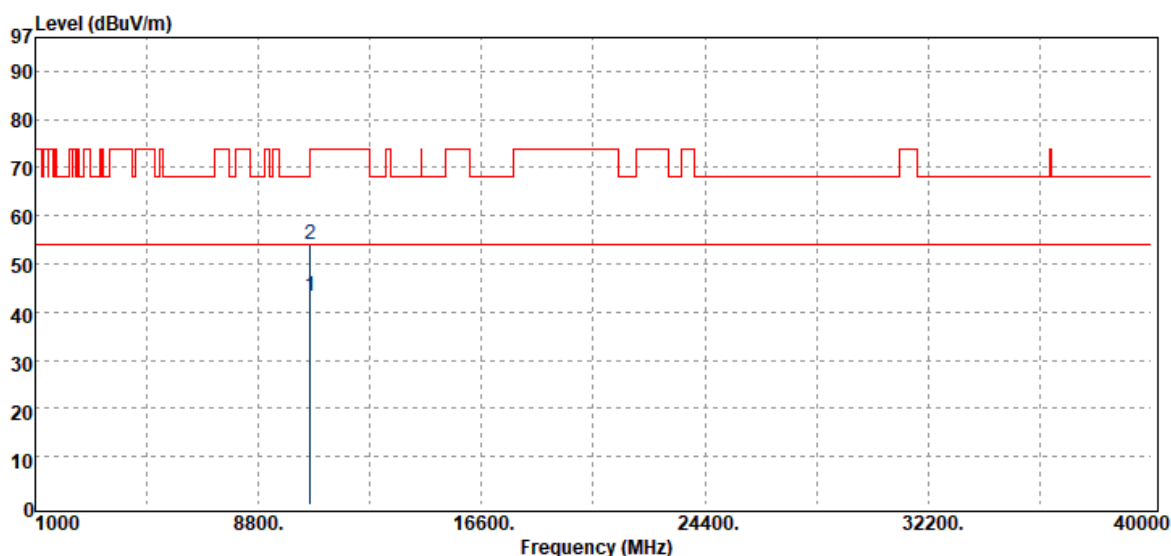
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	24.09	19.33	43.42	54.00	-10.58
10620.00	Peak	35.55	19.33	54.88	74.00	-19.12

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B2	Temp./Humi.	:25.5/63
Test Channel	:5310 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



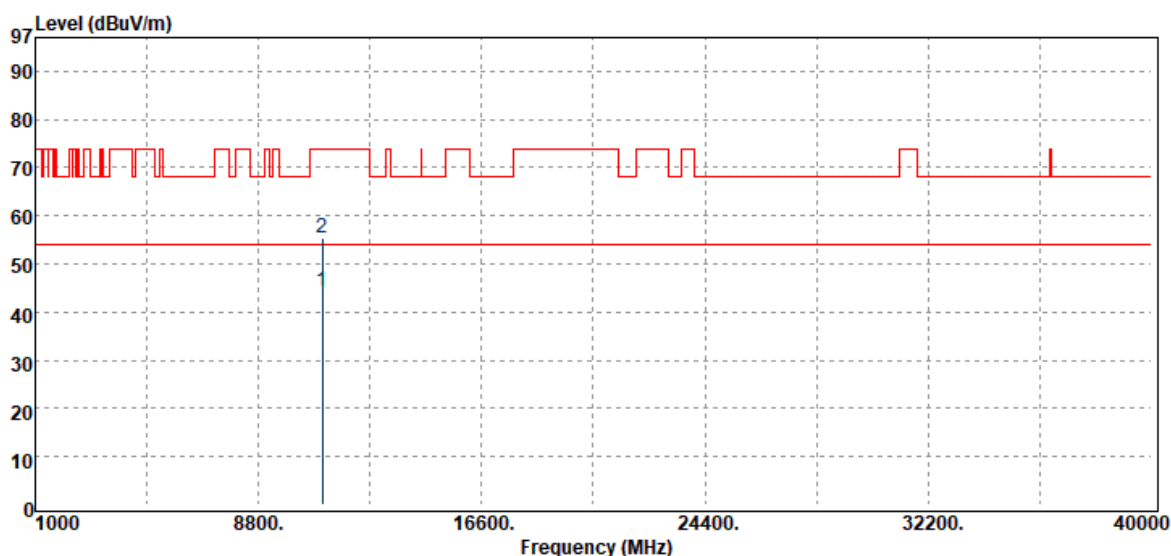
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	24.10	19.33	43.43	54.00	-10.57
10620.00	Peak	34.76	19.33	54.09	74.00	-19.91

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3	Temp./Humi.	:25.5/63
Test Channel	:5510 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		

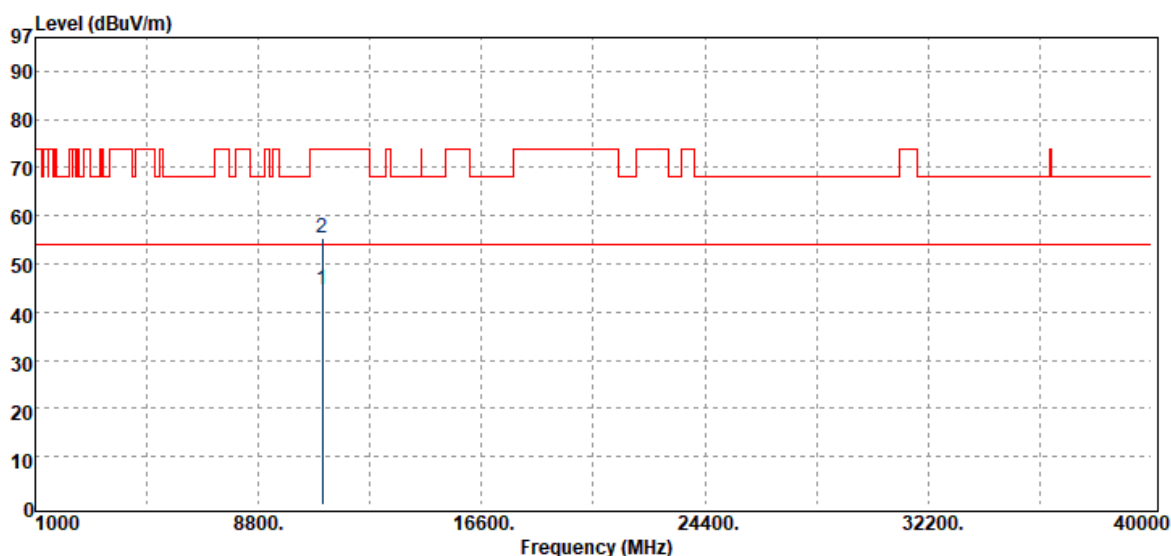


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	23.74	20.69	44.43	54.00	-9.57
11020.00	Peak	34.78	20.69	55.47	74.00	-18.53

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3	Temp./Humi.	:25.5/63
Test Channel	:5510 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



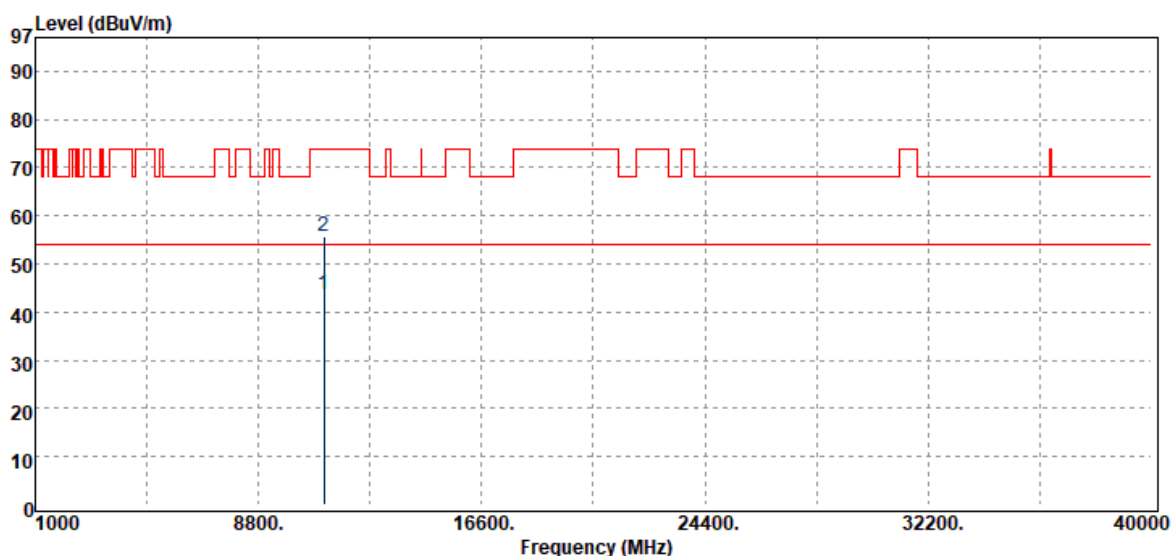
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	23.83	20.69	44.52	54.00	-9.48
11020.00	Peak	34.70	20.69	55.39	74.00	-18.61

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3	Temp./Humi.	:25.5/63
Test Channel	:5550 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



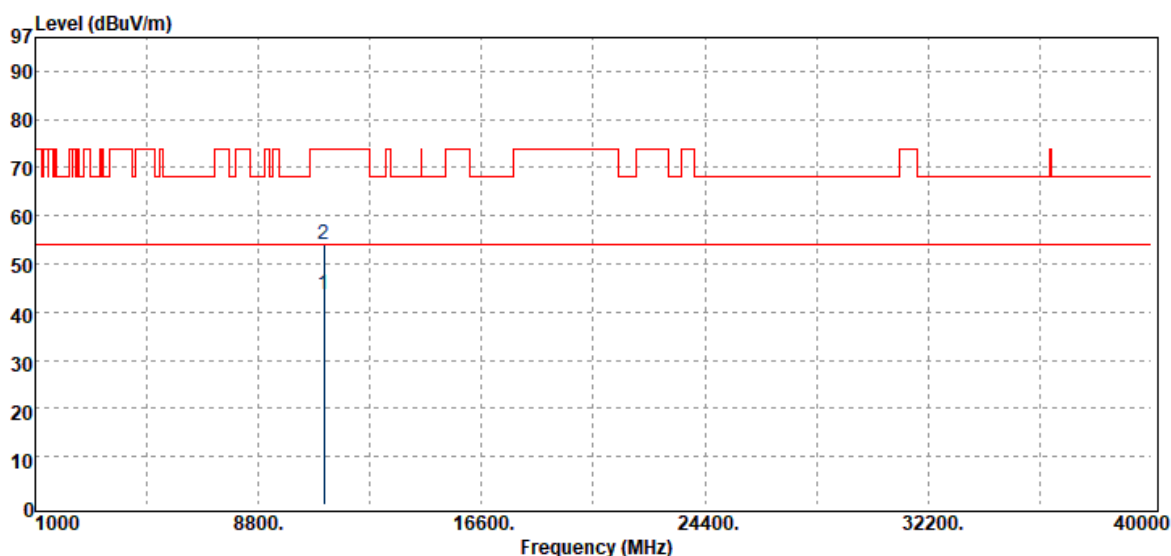
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	23.77	19.75	43.52	54.00	-10.48
11100.00	Peak	35.92	19.75	55.67	74.00	-18.33

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3	Temp./Humi.	:25.5/63
Test Channel	:5550 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E1 Plane		



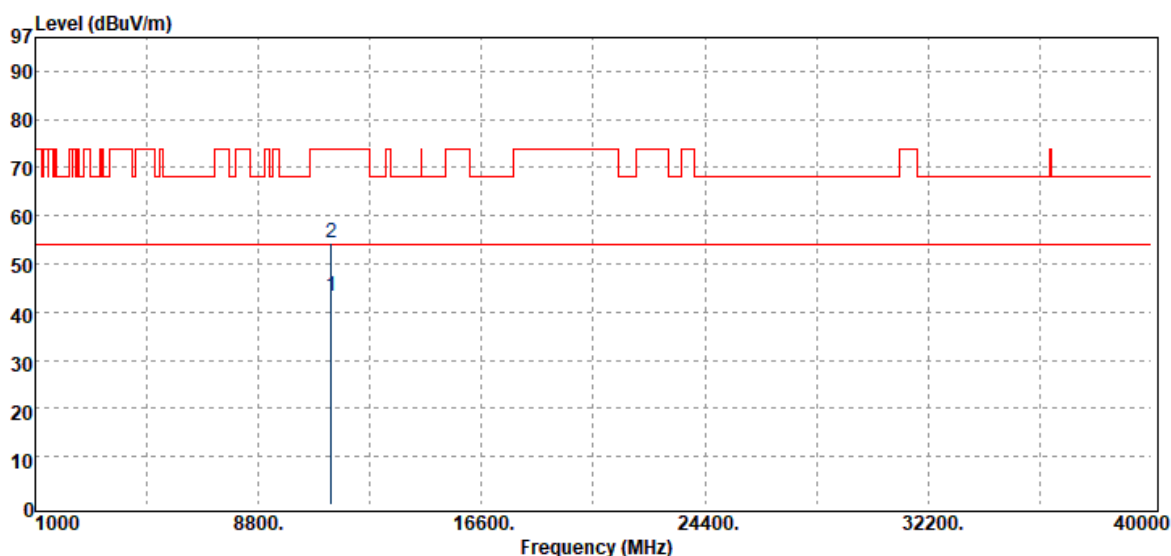
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	23.78	19.75	43.53	54.00	-10.47
11100.00	Peak	34.30	19.75	54.05	74.00	-19.95

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3	Temp./Humi.	:25.5/63
Test Channel	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



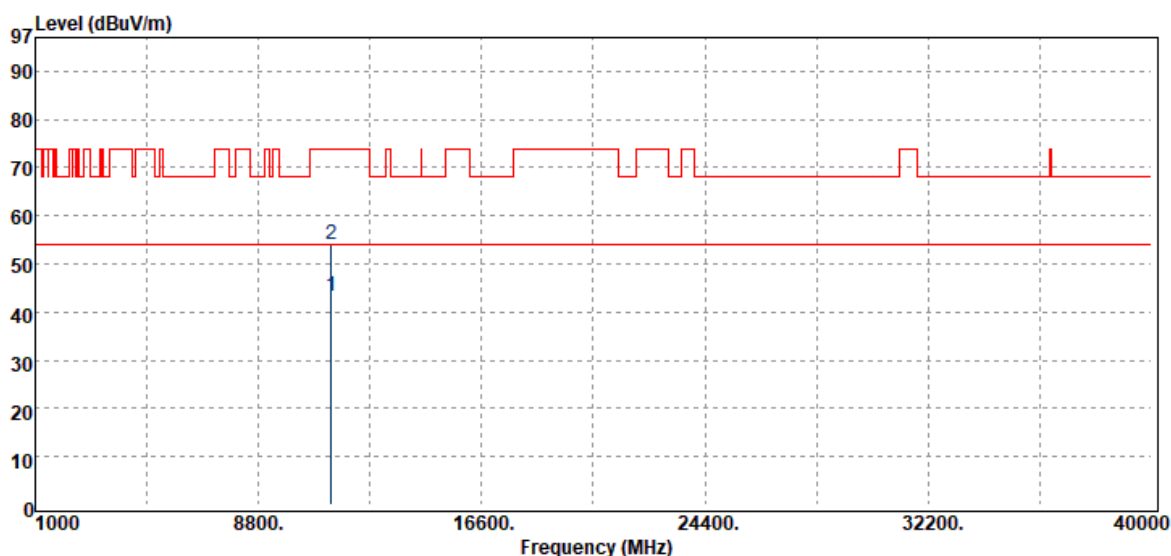
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	23.56	19.73	43.29	54.00	-10.71
11340.00	Peak	34.56	19.73	54.29	74.00	-19.71

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3	Temp./Humi.	:25.5/63
Test Channel	:5670 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



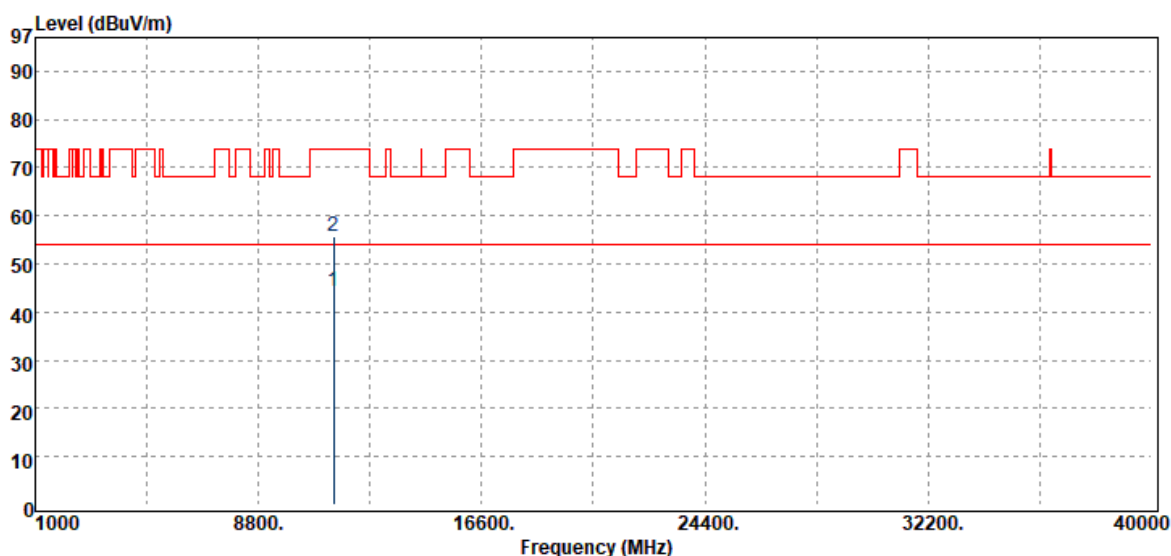
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	23.55	19.73	43.28	54.00	-10.72
11340.00	Peak	34.43	19.73	54.16	74.00	-19.84

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5710 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH 142	Engineer	:Kane
EUT Pol	:E1 Plane		



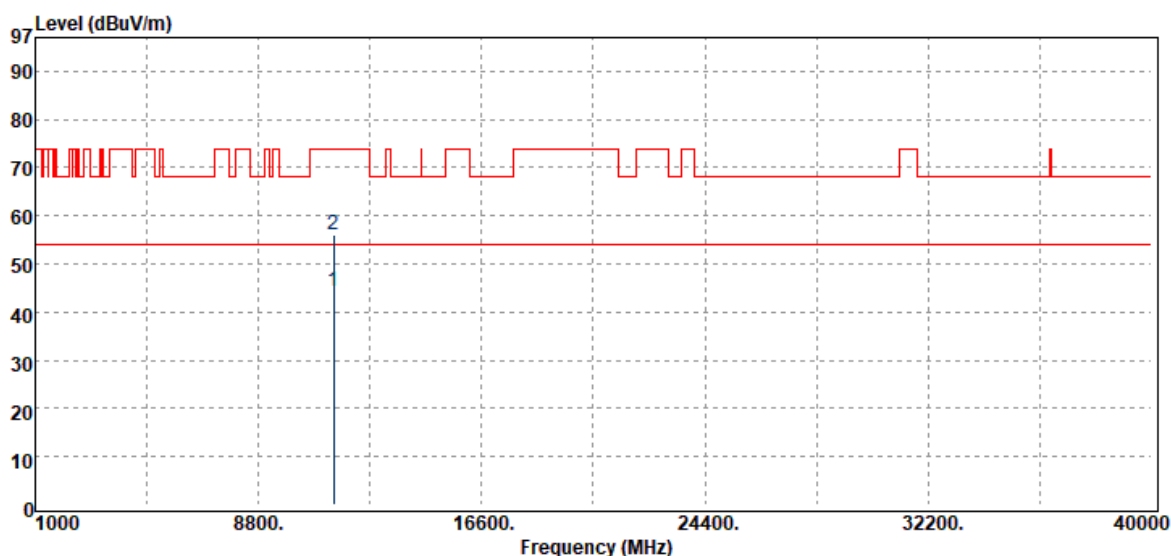
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	23.36	21.00	44.36	54.00	-9.64
11420.00	Peak	34.62	21.00	55.62	74.00	-18.38

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5710 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH 142	Engineer	:Kane
EUT Pol	:E1 Plane		



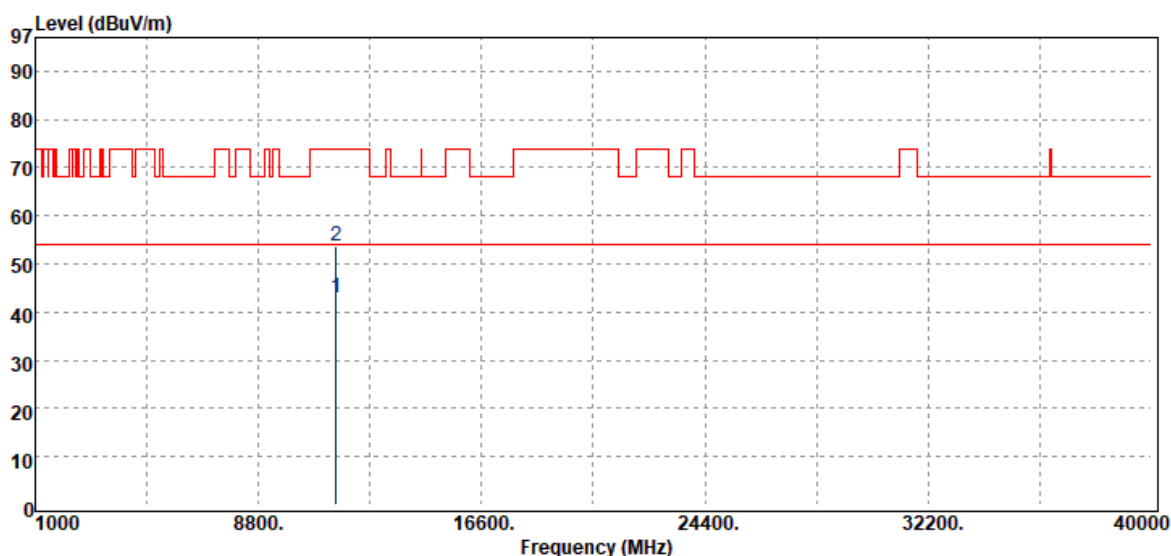
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	23.37	21.00	44.37	54.00	-9.63
11420.00	Peak	35.07	21.00	56.07	74.00	-17.93

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B4	Temp./Humi.	:25.5/63
Test Channel	:5755 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



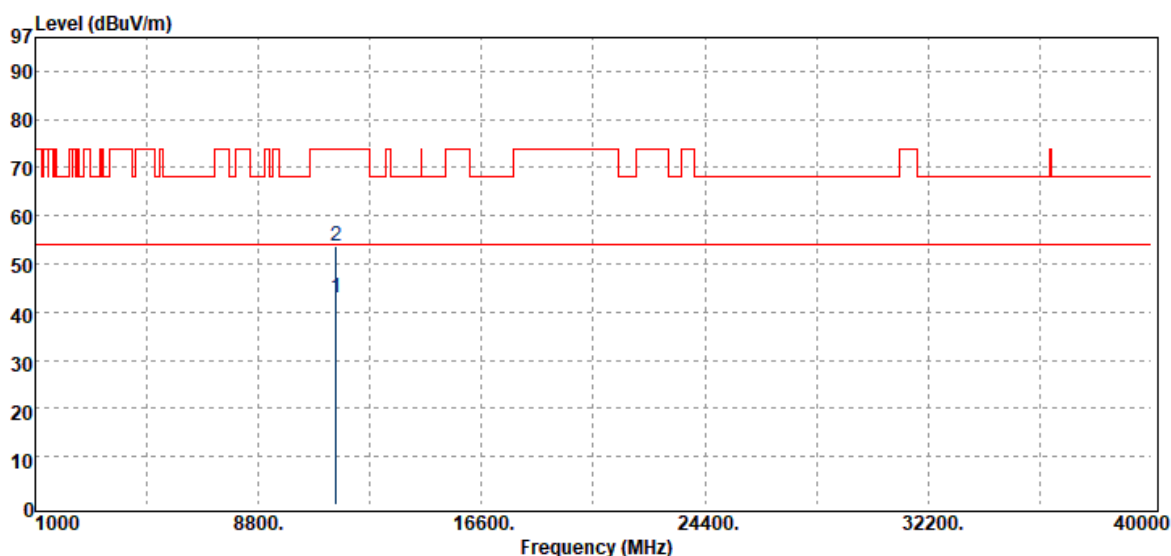
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	23.22	19.78	43.00	54.00	-11.00
11510.00	Peak	34.04	19.78	53.82	74.00	-20.18

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B4	Temp./Humi.	:25.5/63
Test Channel	:5755 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



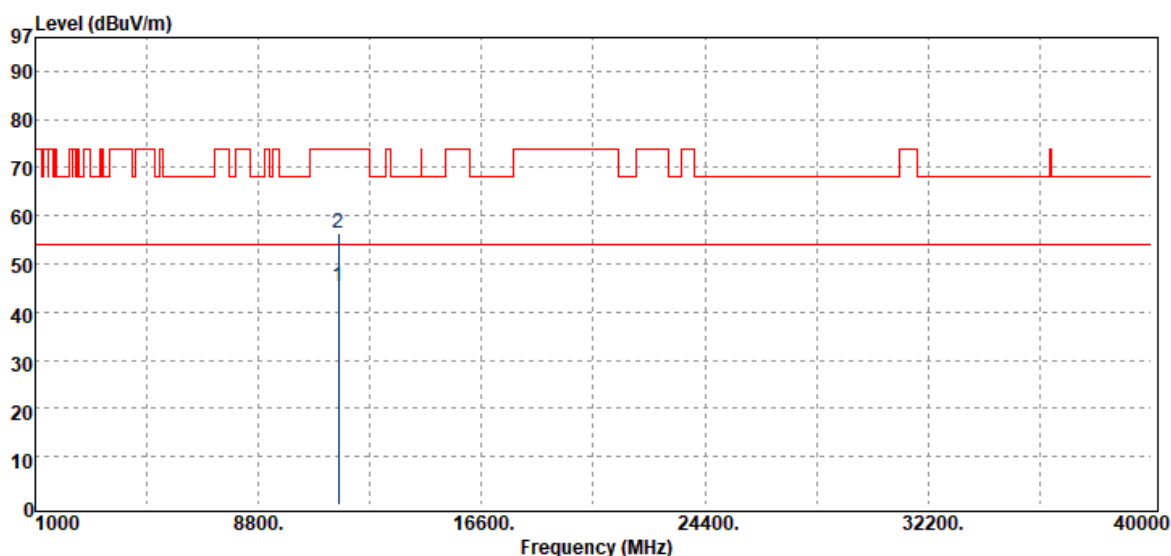
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	23.33	19.78	43.11	54.00	-10.89
11510.00	Peak	33.98	19.78	53.76	74.00	-20.24

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B4	Temp./Humi.	:25.5/63
Test Channel	:5795 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



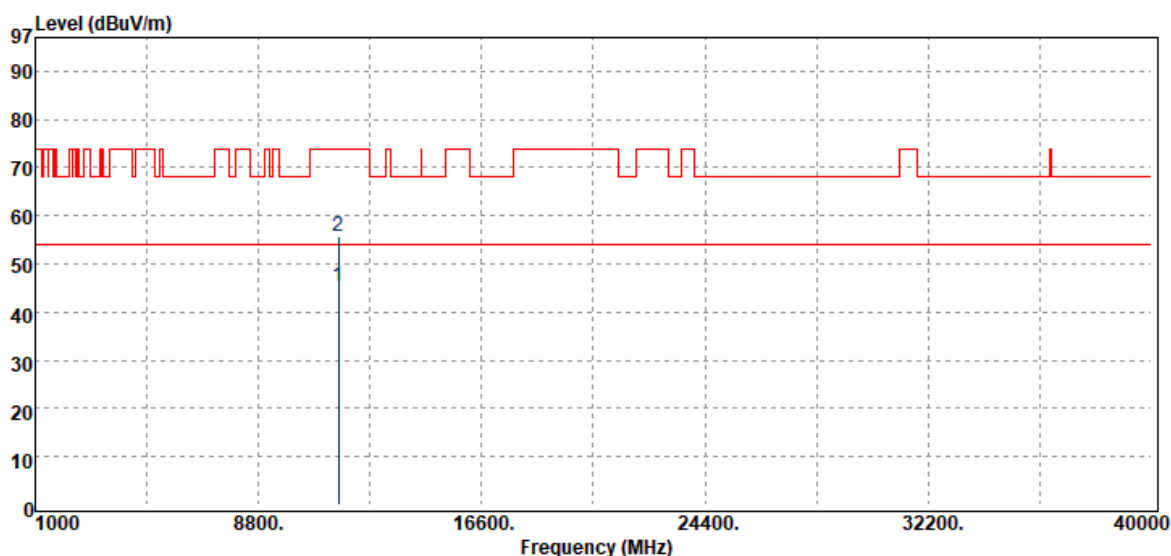
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	23.85	21.38	45.23	54.00	-8.77
11590.00	Peak	35.09	21.38	56.47	74.00	-17.53

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11n40 B4	Temp./Humi.	:25.5/63
Test Channel	:5795 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



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	23.91	21.38	45.29	54.00	-8.71
11590.00	Peak	34.29	21.38	55.67	74.00	-18.33

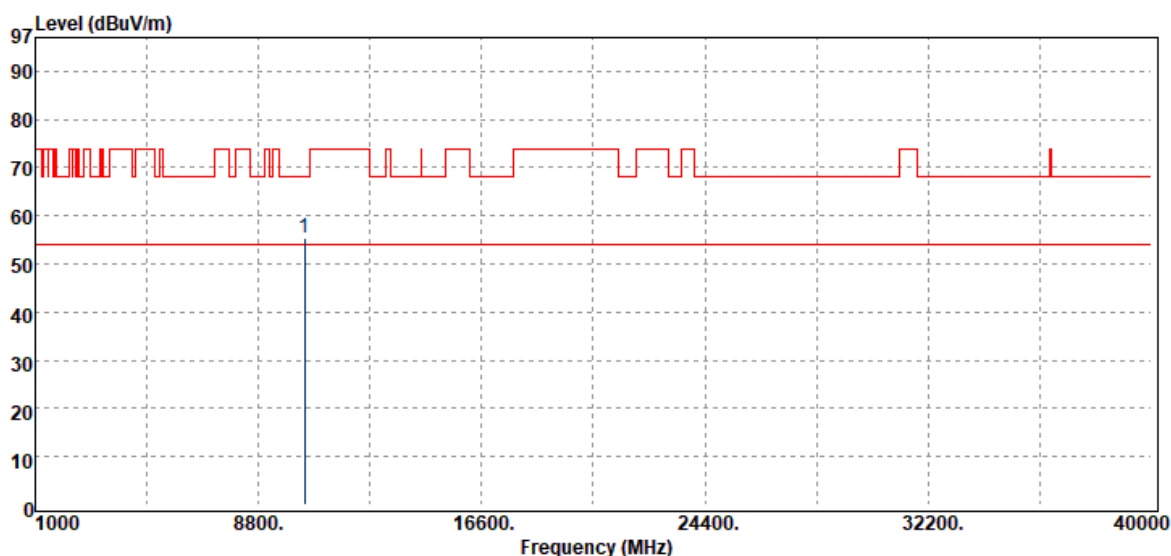
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Report Number :ER/2019/A0107
 Operation Mode :802.11ac80 B1
 Test Channel :5210 MHz
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane

Test Date :2019-11-18
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kane



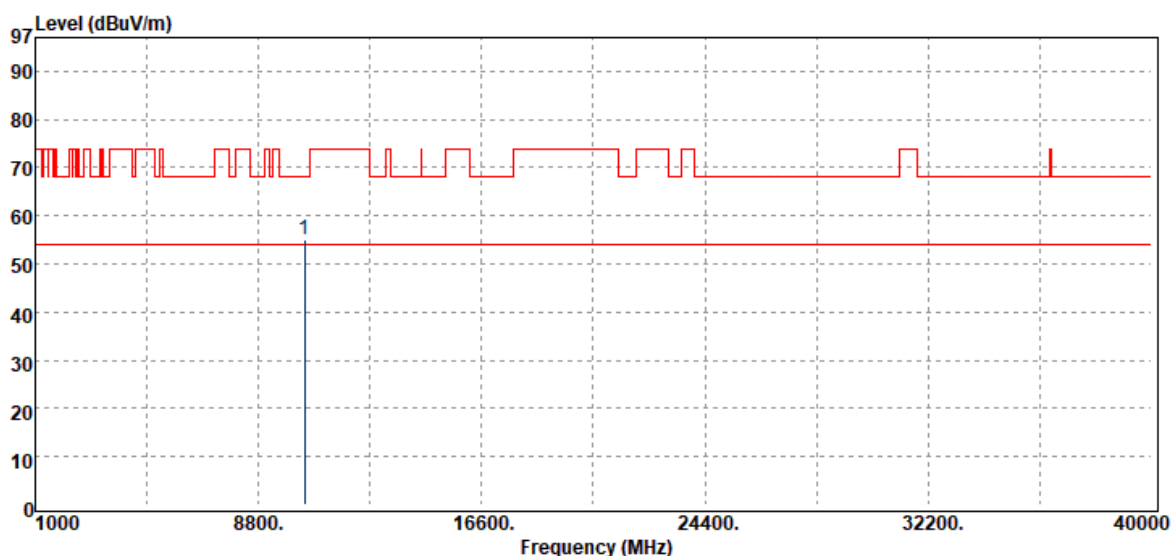
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	36.51	18.93	55.44	68.20	-12.76

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B1	Temp./Humi.	:25.5/63
Test Channel	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



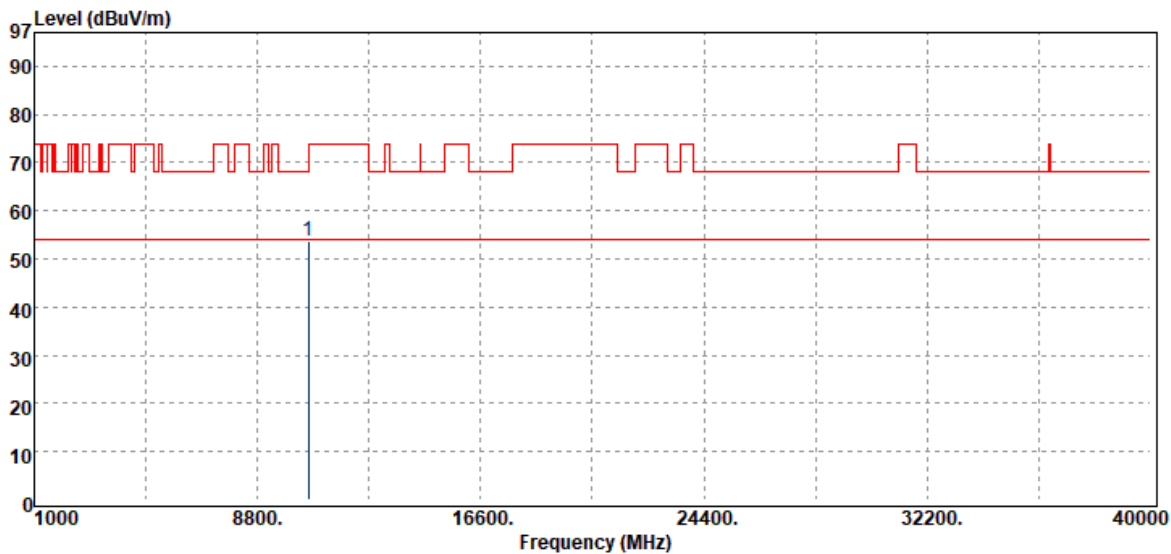
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	36.13	18.93	55.06	68.20	-13.14

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B2	Temp./Humi.	:25.5/63
Test Channel	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



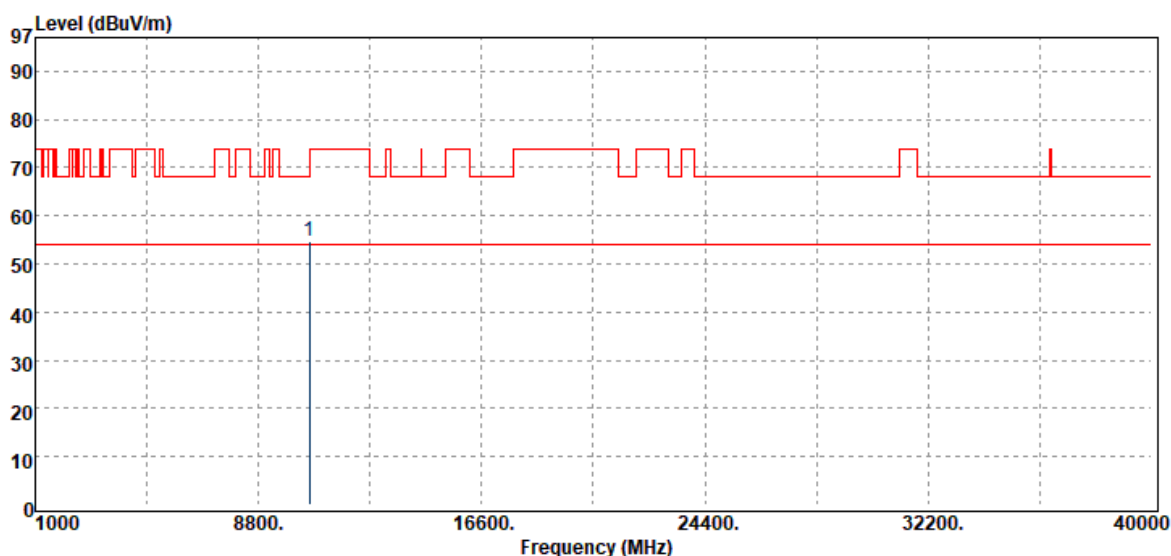
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	34.77	18.85	53.62	68.20	-14.58

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B2	Temp./Humi.	:25.5/63
Test Channel	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		

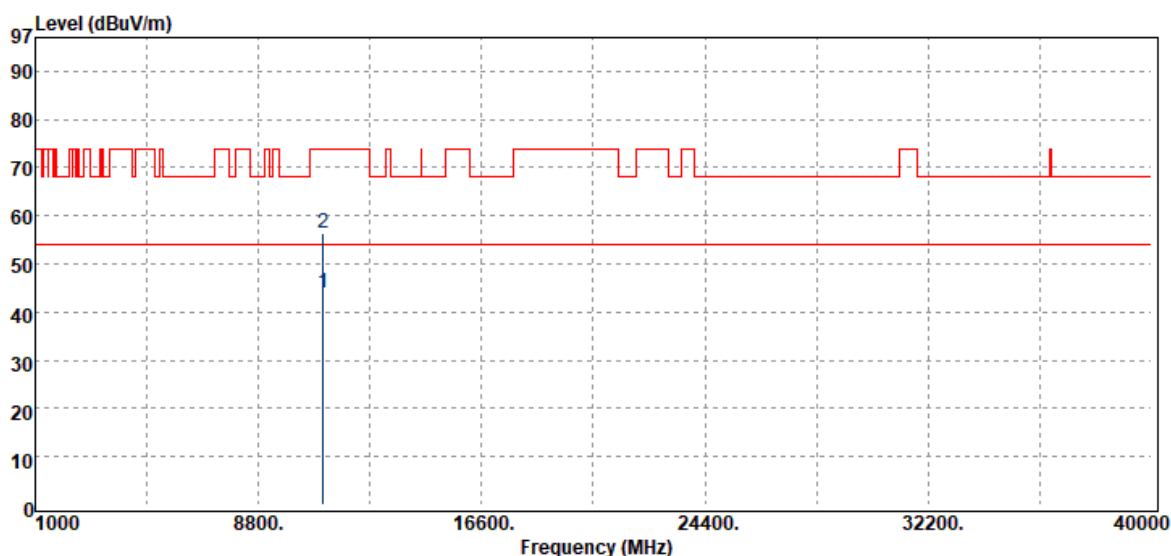


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10580.00	Peak	35.71	18.85	54.56	68.20	-13.64

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3	Temp./Humi.	:25.5/63
Test Channel	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



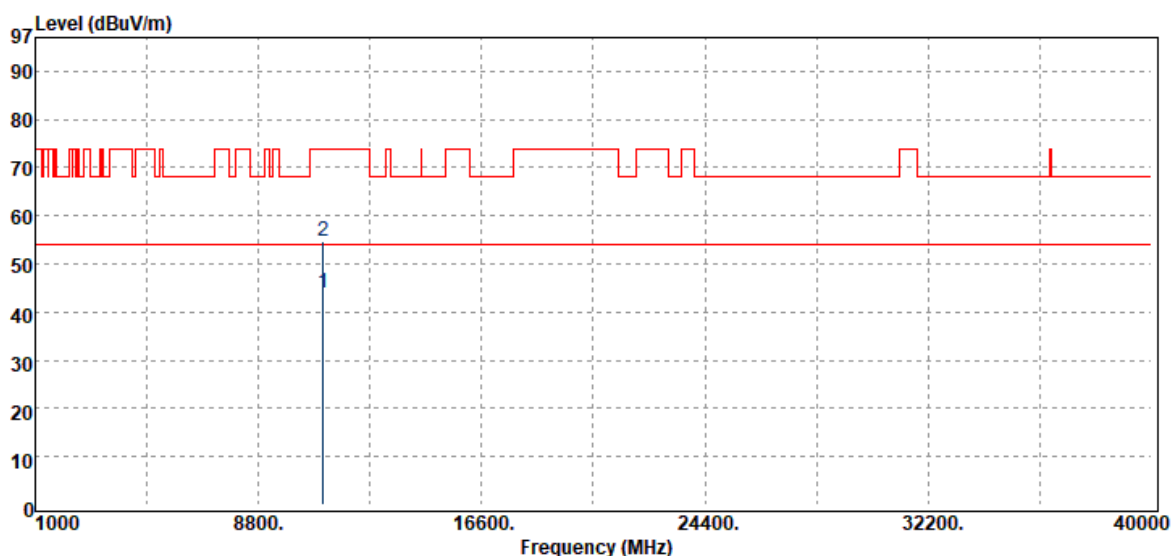
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	23.64	20.19	43.83	54.00	-10.17
11060.00	Peak	36.11	20.19	56.30	74.00	-17.70

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3	Temp./Humi.	:25.5/63
Test Channel	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



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	23.63	20.19	43.82	54.00	-10.18
11060.00	Peak	34.61	20.19	54.80	74.00	-19.20

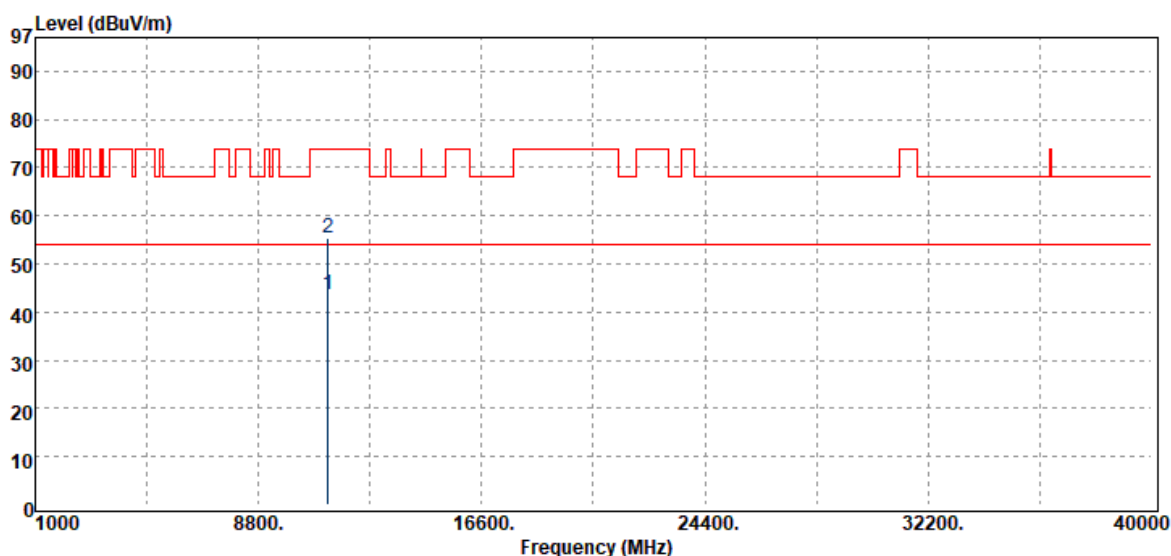
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Report Number :ER/2019/A0107
Operation Mode :802.11ac80 B3
Test Channel :5610 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



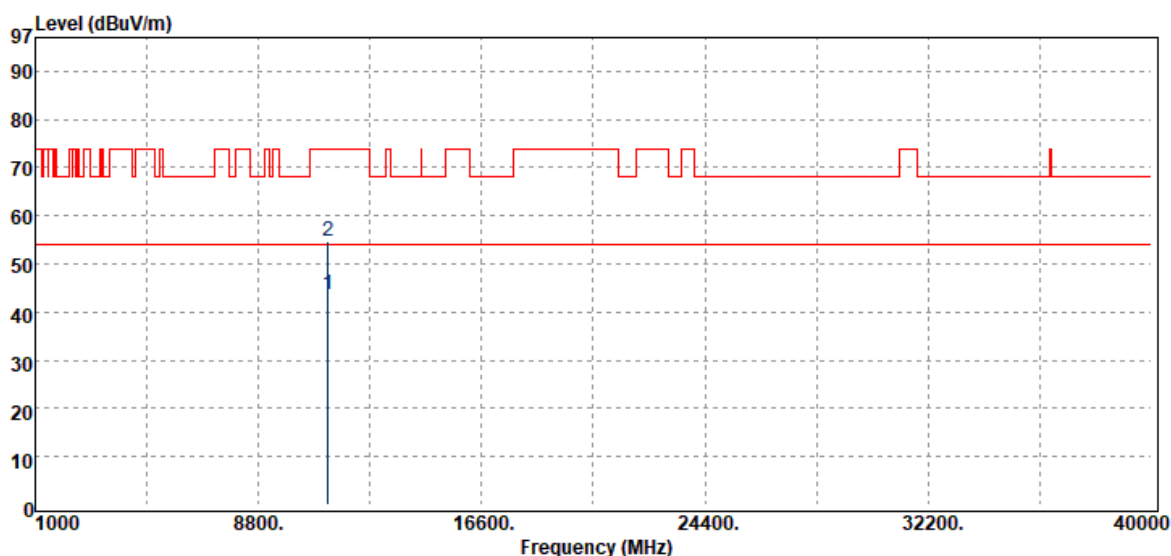
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	23.74	19.80	43.54	54.00	-10.46
11220.00	Peak	35.53	19.80	55.33	74.00	-18.67

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3	Temp./Humi.	:25.5/63
Test Channel	:5610 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



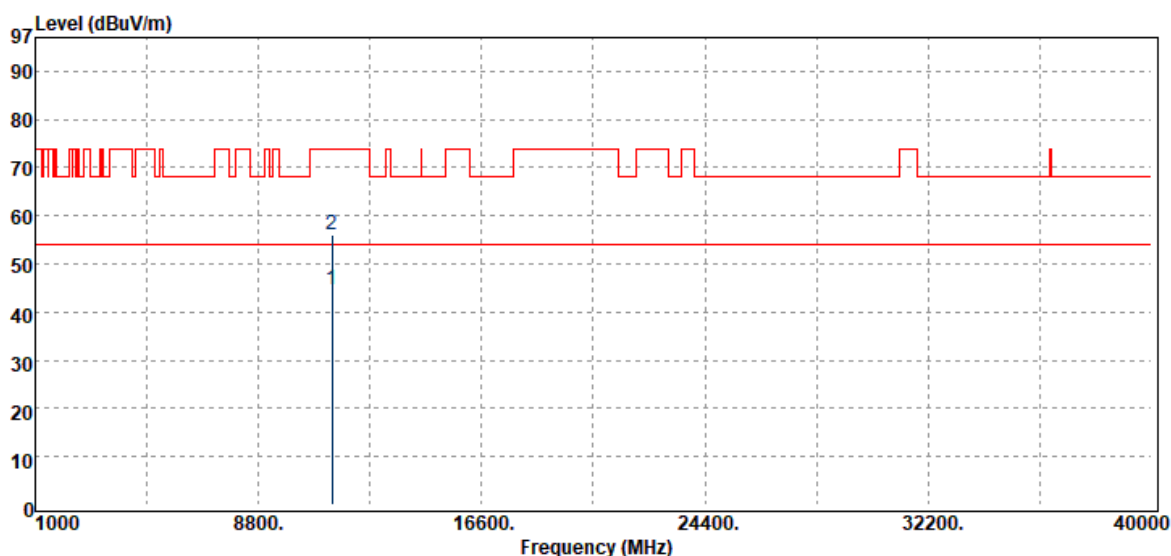
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	23.79	19.80	43.59	54.00	-10.41
11220.00	Peak	34.81	19.80	54.61	74.00	-19.39

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5690 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH 138	Engineer	:Kane
EUT Pol	:E1 Plane		



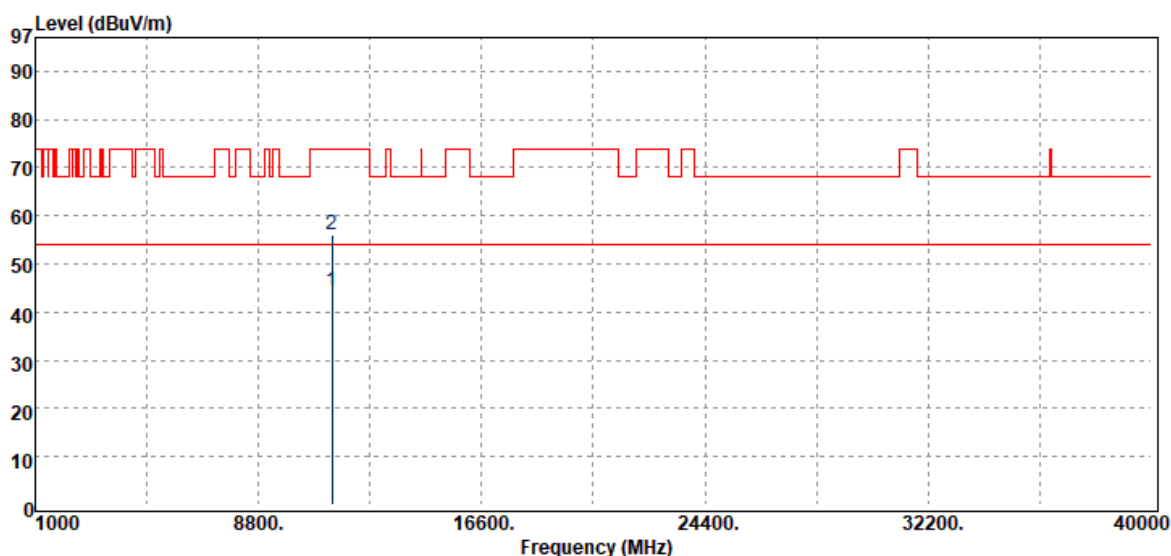
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	23.74	20.75	44.49	54.00	-9.51
11380.00	Peak	35.21	20.75	55.96	74.00	-18.04

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B3/B4	Temp./Humi.	:25.5/63
Test Channel	:5690 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH 138	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	23.69	20.75	44.44	54.00	-9.56
11380.00	Peak	35.25	20.75	56.00	74.00	-18.00

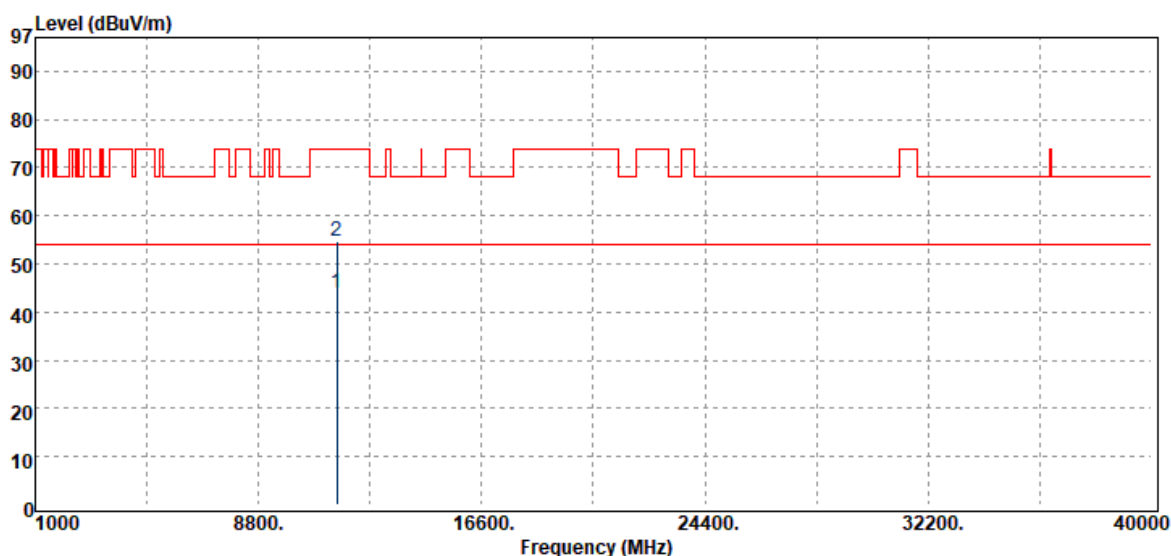
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Report Number :ER/2019/A0107
Operation Mode :802.11ac80 B4
Test Channel :5775 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2019-11-18
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Kane



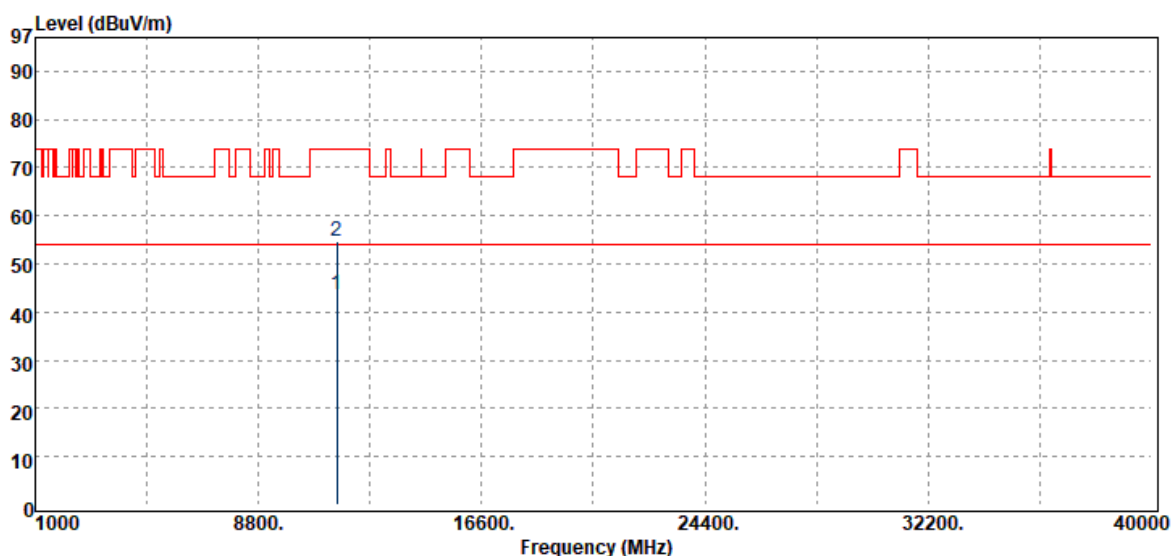
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	23.36	20.48	43.84	54.00	-10.16
11550.00	Peak	34.32	20.48	54.80	74.00	-19.20

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Report Number	:ER/2019/A0107	Test Date	:2019-11-18
Operation Mode	:802.11ac80 B4	Temp./Humi.	:25.5/63
Test Channel	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



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	23.30	20.48	43.78	54.00	-10.22
11550.00	Peak	34.13	20.48	54.61	74.00	-19.39

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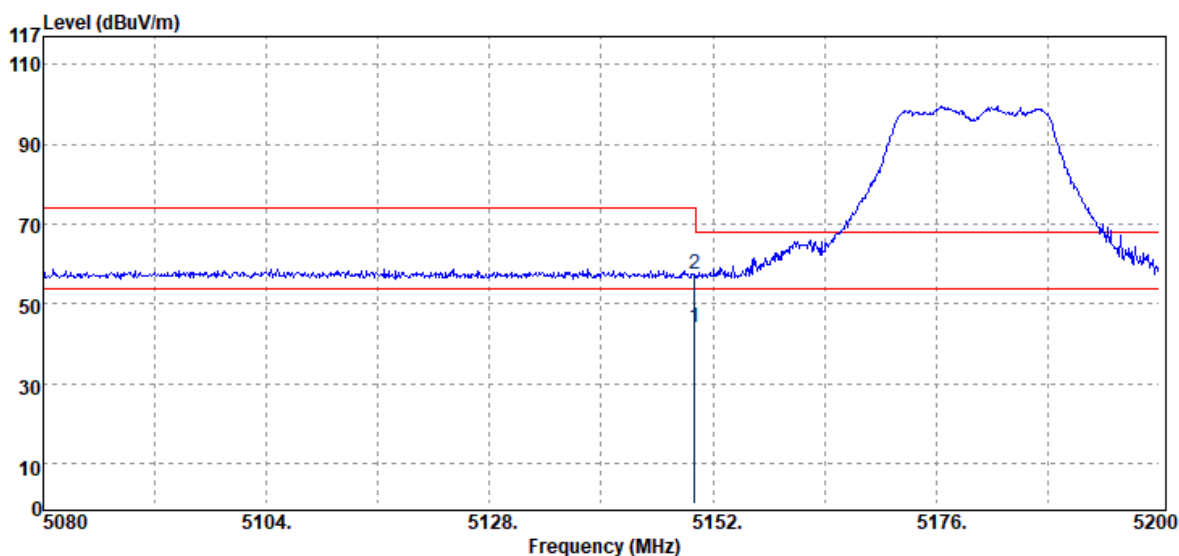
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Band Edge falling to restricted band

Report Number :ER/2019/A0107
 Operation Mode :802.11aB1
 Test Channel :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E1 Plane

Test Date :2019-11-15
 Temp./Humi. :24.5/64
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.09	7.10	44.19	54.00	-9.81
5150.00	Peak	50.22	7.10	57.32	74.00	-16.68

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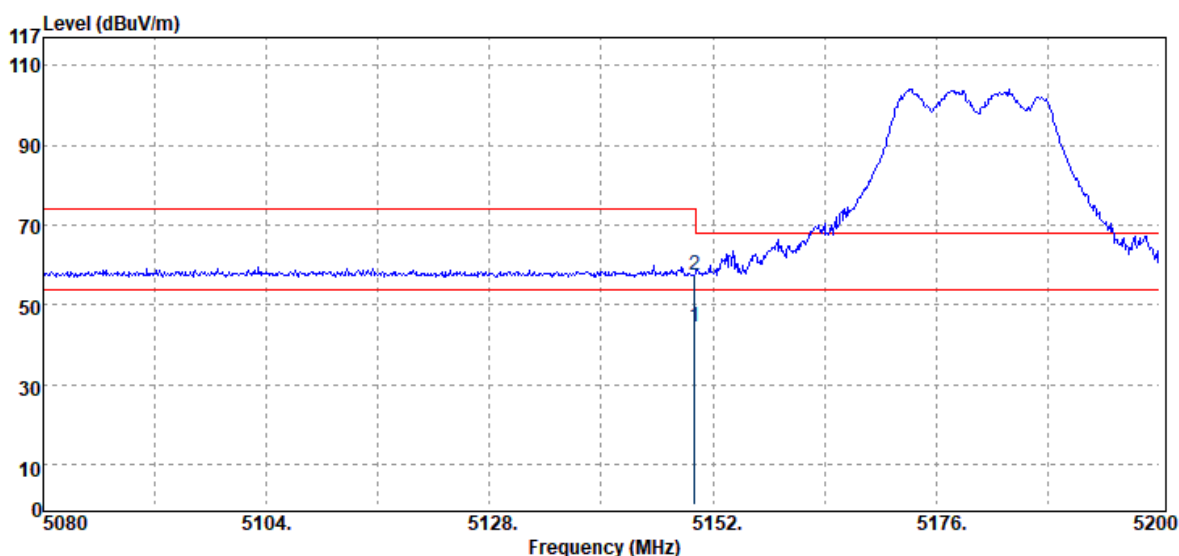
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Member of SGS Group

Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB1	Temp./Humi.	:24.5/64
Test Channel	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



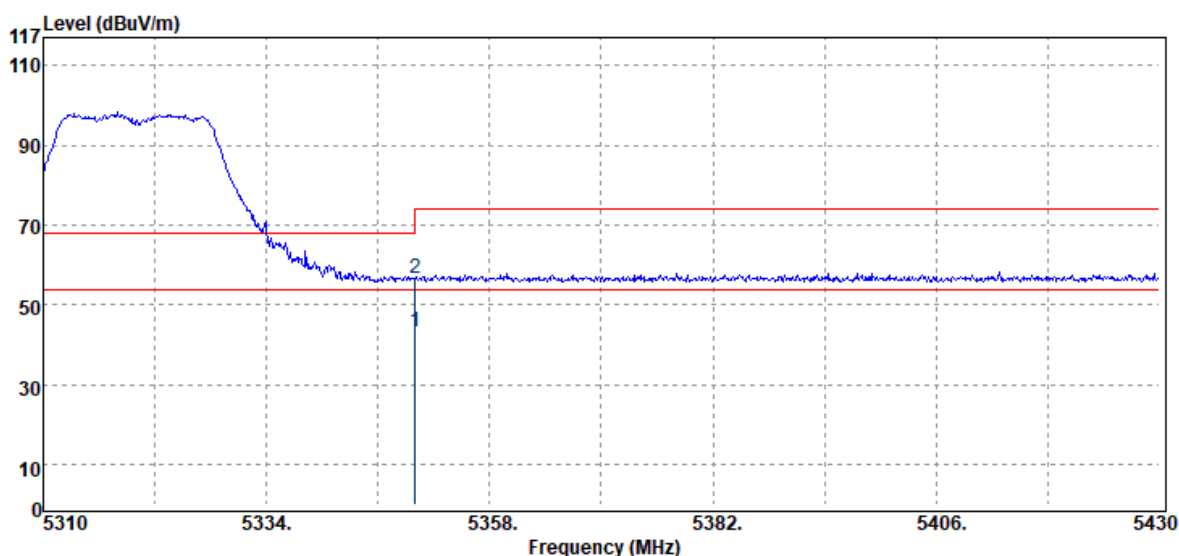
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.24	7.10	44.34	54.00	-9.66
5150.00	Peak	50.56	7.10	57.66	74.00	-16.34

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB2	Temp./Humi.	:24.5/64
Test Channel	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



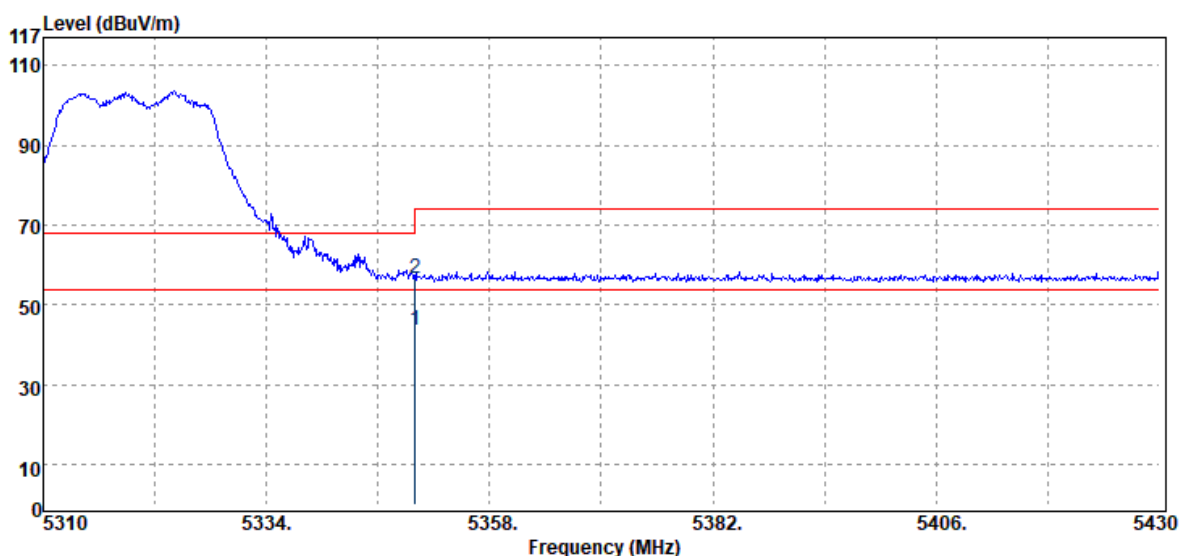
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.18	6.21	43.39	54.00	-10.61
5350.00	Peak	50.52	6.21	56.73	74.00	-17.27

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB2	Temp./Humi.	:24.5/64
Test Channel	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



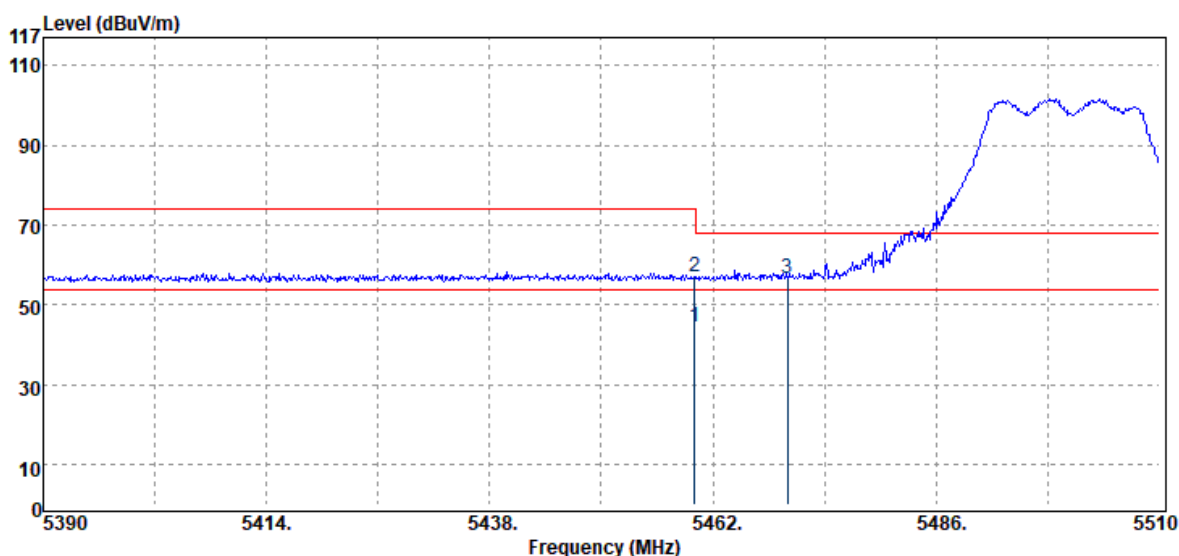
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	37.37	6.21	43.58	54.00	-10.42
5350.00	Peak	50.48	6.21	56.69	74.00	-17.31

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB3	Temp./Humi.	:24.5/64
Test Channel	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



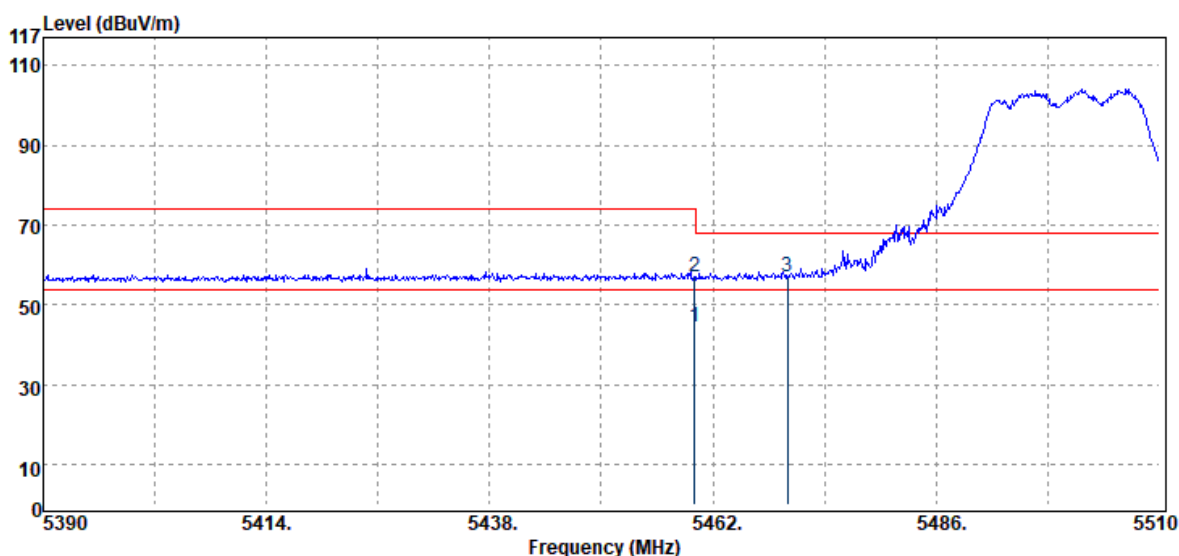
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.69	6.69	44.38	54.00	-9.62
5460.00	Peak	50.54	6.69	57.23	74.00	-16.77
5470.00	Peak	50.02	6.77	56.79	68.20	-11.41

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB3	Temp./Humi.	:24.5/64
Test Channel	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



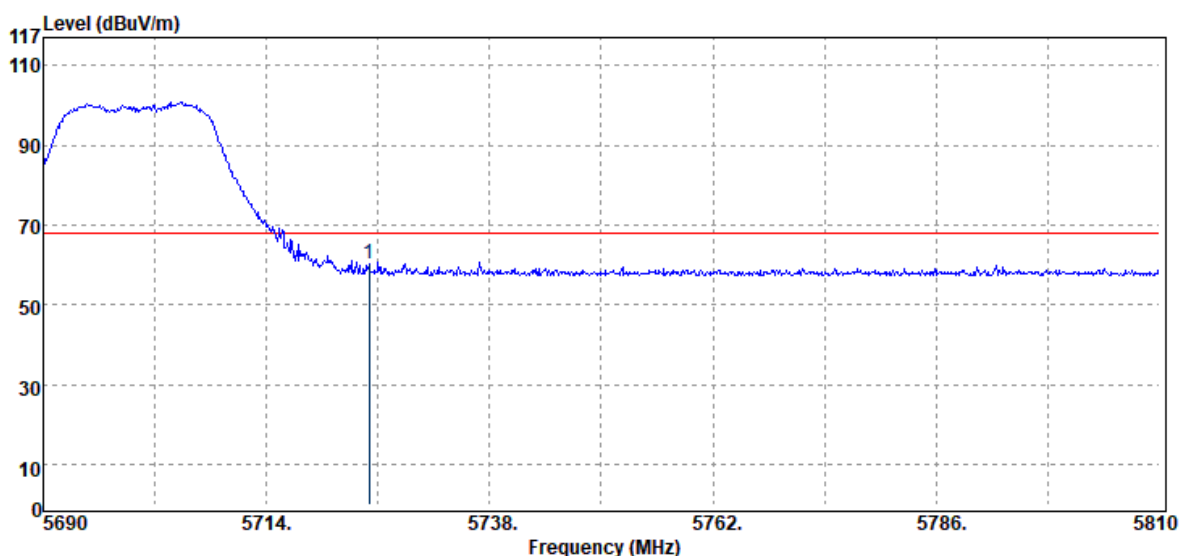
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.68	6.69	44.37	54.00	-9.63
5460.00	Peak	50.41	6.69	57.10	74.00	-16.90
5470.00	Peak	50.26	6.77	57.03	68.20	-11.17

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB3	Temp./Humi.	:24.5/64
Test Channel	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		

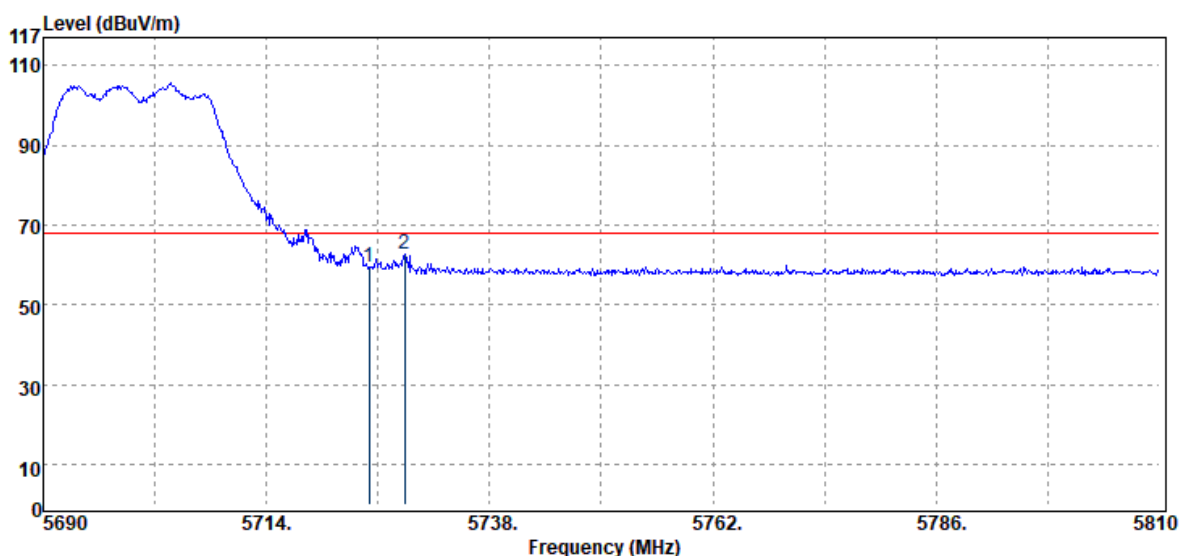


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	52.76	7.53	60.29	68.20	-7.91

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB3	Temp./Humi.	:24.5/64
Test Channel	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



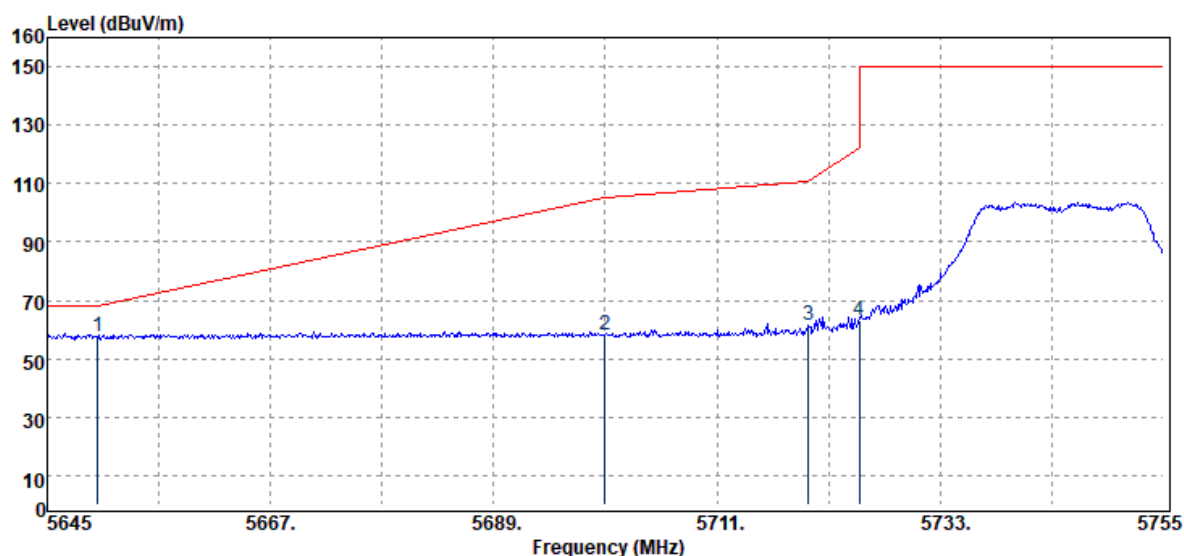
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	52.15	7.53	59.68	68.20	-8.52
5728.88	Peak	55.25	7.53	62.78	68.20	-5.42

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB4	Temp./Humi.	:24.5/64
Test Channel	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



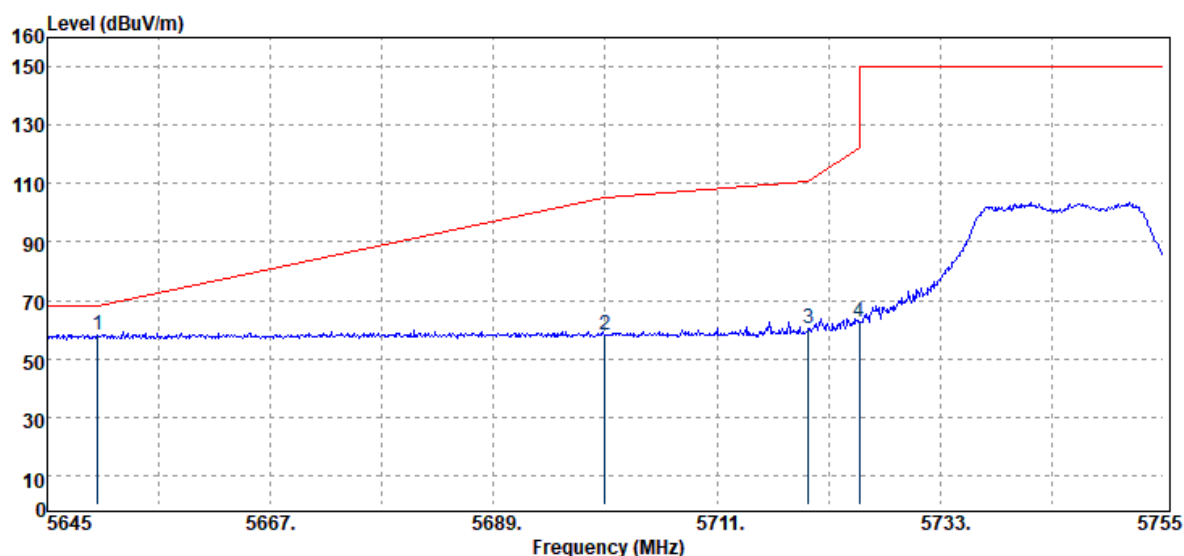
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	50.52	7.02	57.54	68.20	-10.66
5700.00	Peak	50.77	7.54	58.31	105.20	-46.89
5720.00	Peak	53.80	7.53	61.33	110.80	-49.47
5725.00	Peak	55.38	7.53	62.91	122.20	-59.29

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB4	Temp./Humi.	:24.5/64
Test Channel	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



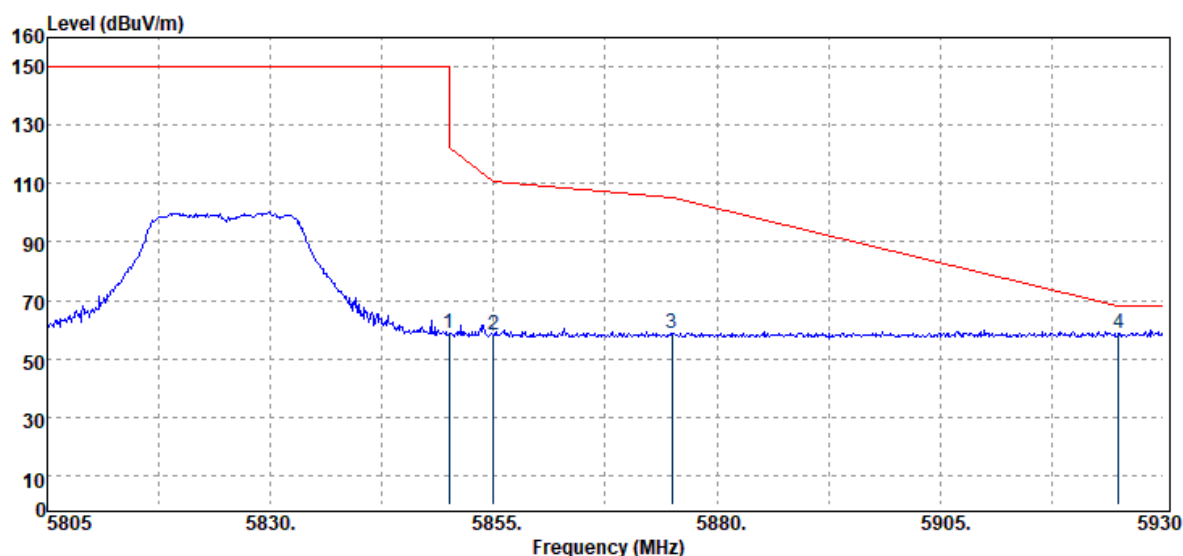
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.03	7.02	58.05	68.20	-10.15
5700.00	Peak	50.65	7.54	58.19	105.20	-47.01
5720.00	Peak	53.02	7.53	60.55	110.80	-50.25
5725.00	Peak	55.08	7.53	62.61	122.20	-59.59

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB4	Temp./Humi.	:24.5/64
Test Channel	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



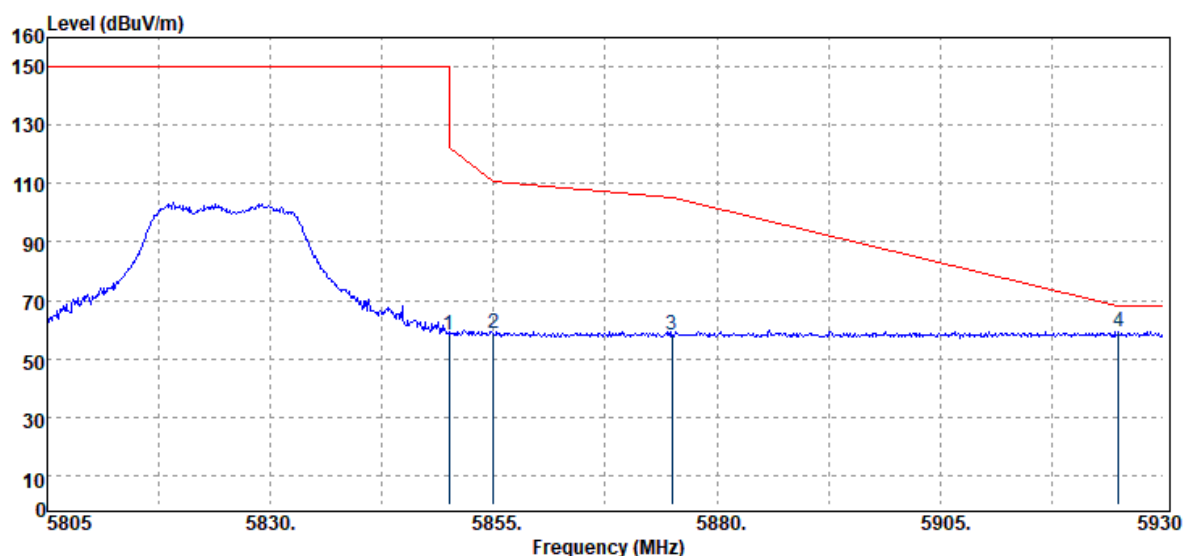
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.70	7.76	58.46	122.20	-63.74
5855.00	Peak	50.26	7.77	58.03	110.80	-52.77
5875.00	Peak	50.70	7.83	58.53	105.20	-46.67
5925.00	Peak	50.53	7.97	58.50	68.20	-9.70

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11aB4	Temp./Humi.	:24.5/64
Test Channel	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



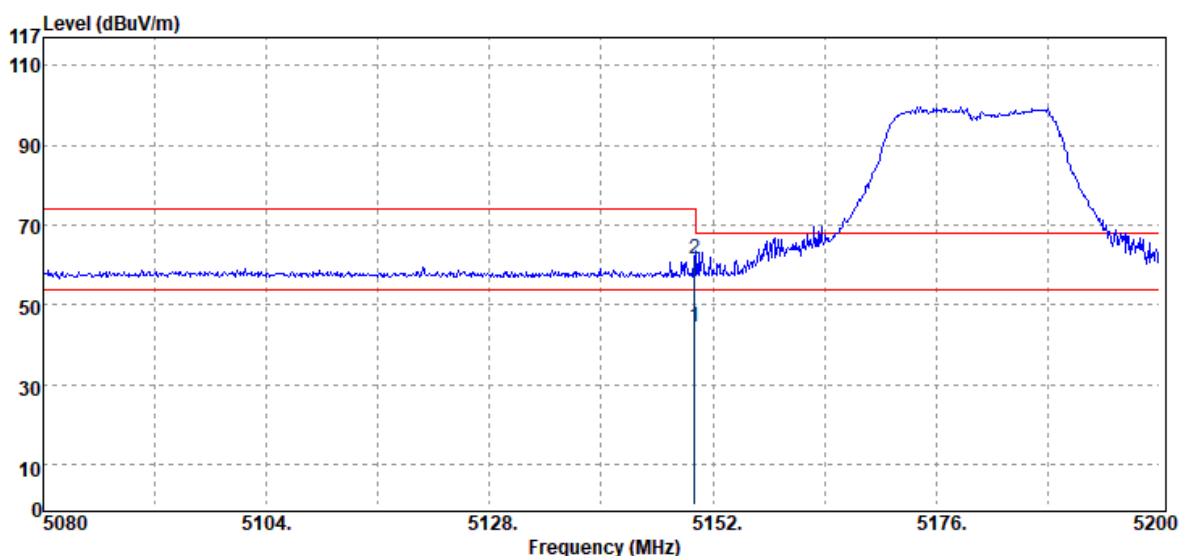
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.58	7.76	58.34	122.20	-63.86
5855.00	Peak	51.04	7.77	58.81	110.80	-51.99
5875.00	Peak	50.41	7.83	58.24	105.20	-46.96
5925.00	Peak	51.18	7.97	59.15	68.20	-9.05

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B1	Temp./Humi.	:24.5/64
Test Channel	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



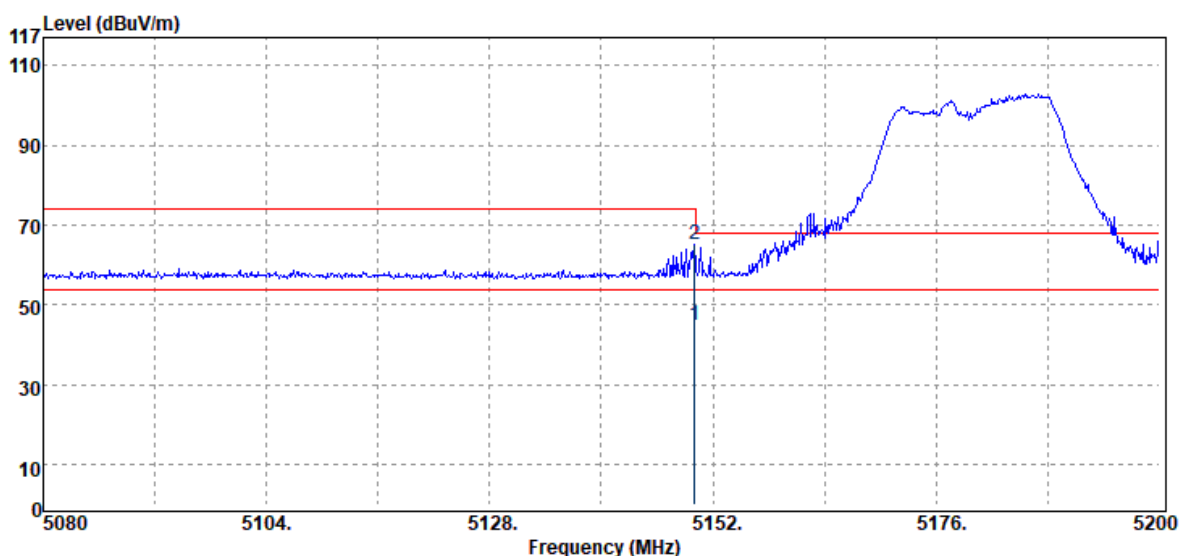
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.57	7.10	44.67	54.00	-9.33
5150.00	Peak	54.58	7.10	61.68	74.00	-12.32

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B1	Temp./Humi.	:24.5/64
Test Channel	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



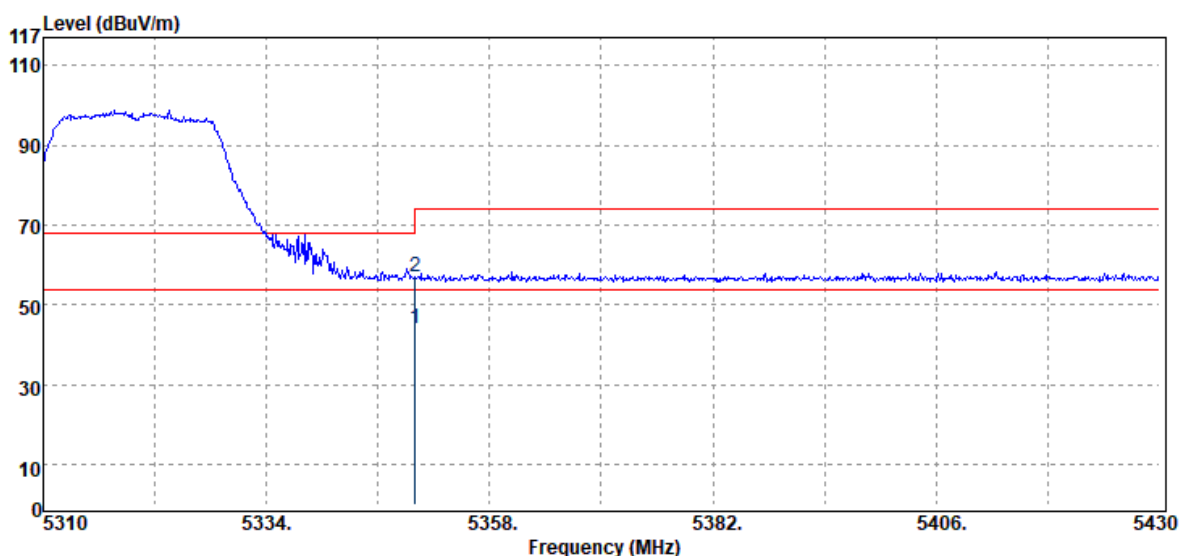
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	37.69	7.10	44.79	54.00	-9.21
5150.00	Peak	57.93	7.10	65.03	74.00	-8.97

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B2	Temp./Humi.	:24.5/64
Test Channel	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



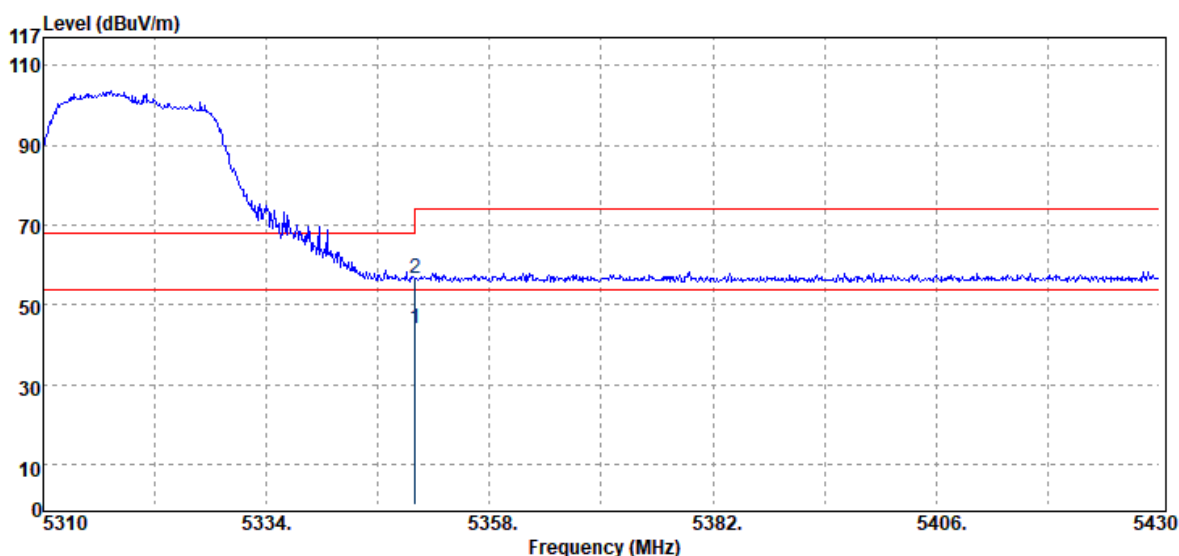
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.75	6.21	43.96	54.00	-10.04
5350.00	Peak	50.80	6.21	57.01	74.00	-16.99

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B2	Temp./Humi.	:24.5/64
Test Channel	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



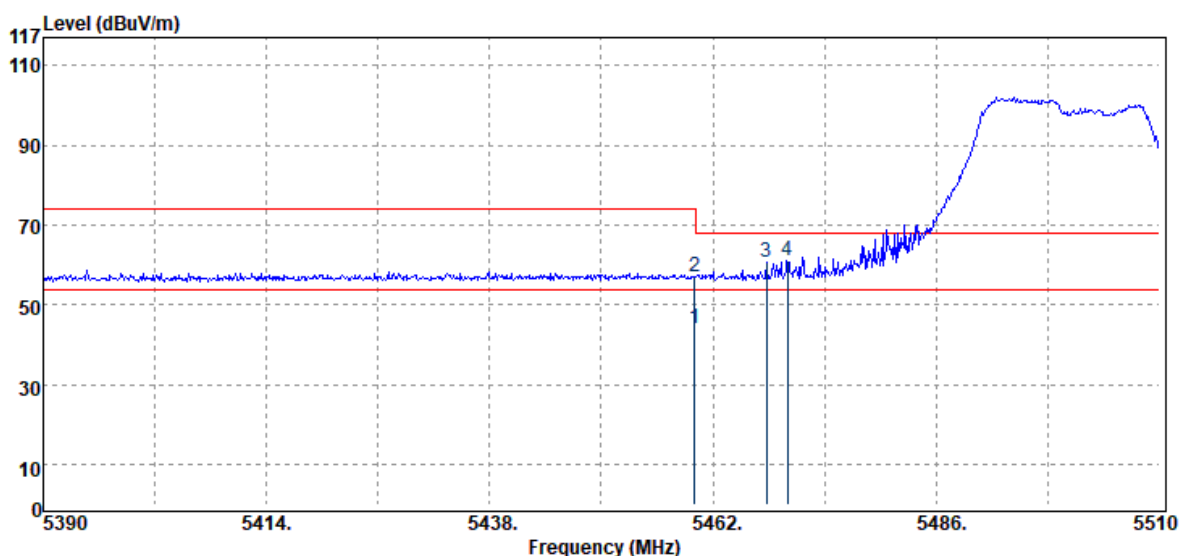
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	37.95	6.21	44.16	54.00	-9.84
5350.00	Peak	50.51	6.21	56.72	74.00	-17.28

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B3	Temp./Humi.	:24.5/64
Test Channel	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



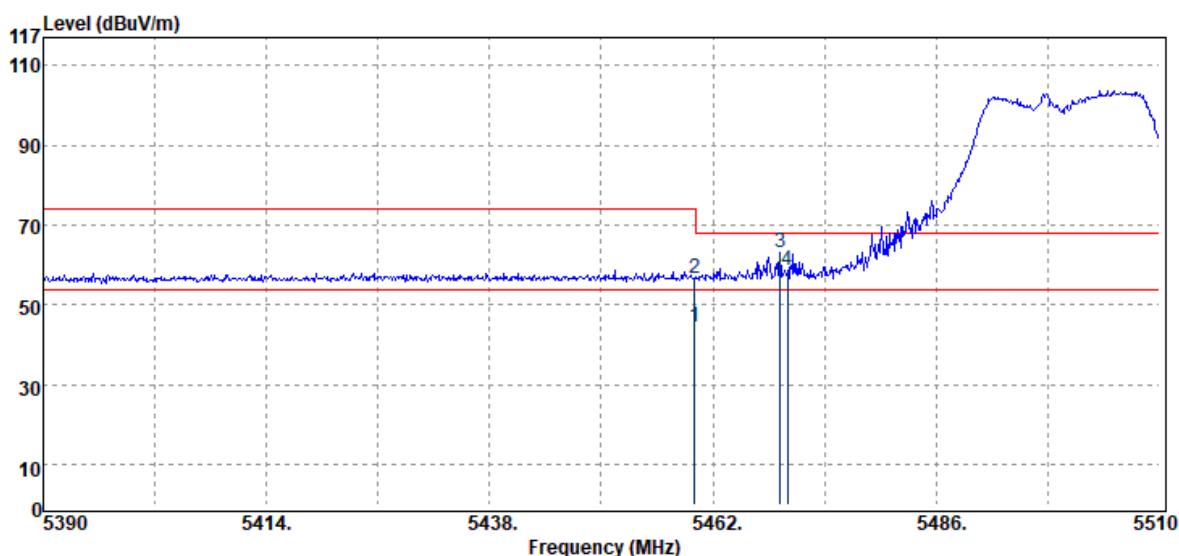
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.61	6.69	44.30	54.00	-9.70
5460.00	Peak	50.28	6.69	56.97	74.00	-17.03
5467.76	Peak	53.97	6.75	60.72	68.20	-7.48
5470.00	Peak	54.28	6.77	61.05	68.20	-7.15

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B3	Temp./Humi.	:24.5/64
Test Channel	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



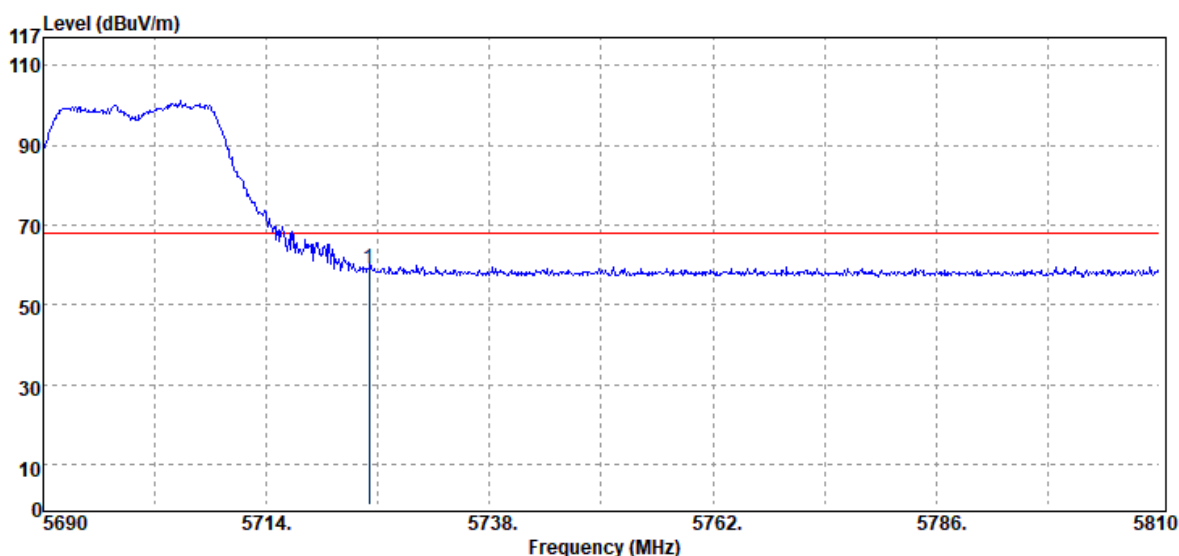
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.71	6.69	44.40	54.00	-9.60
5460.00	Peak	50.02	6.69	56.71	74.00	-17.29
5469.20	Peak	56.25	6.77	63.02	68.20	-5.18
5470.00	Peak	51.84	6.77	58.61	68.20	-9.59

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B3	Temp./Humi.	:24.5/64
Test Channel	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



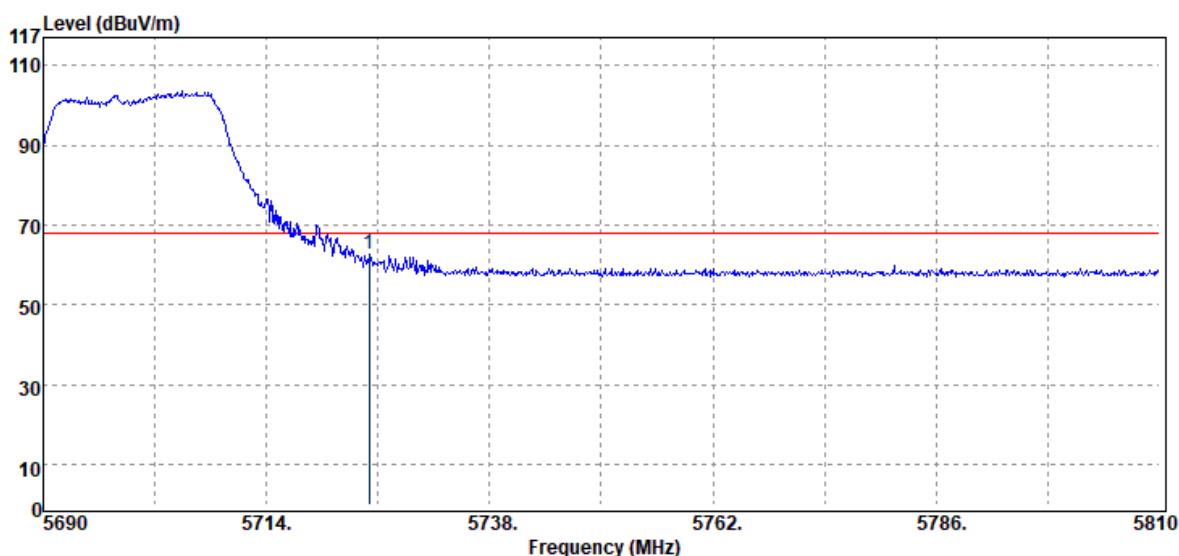
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	51.38	7.53	58.91	68.20	-9.29

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Operation Mode	:802.11n20B3	Temp./Humi.	:24.5/64
Test Channel	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	55.35	7.53	62.88	68.20	-5.32

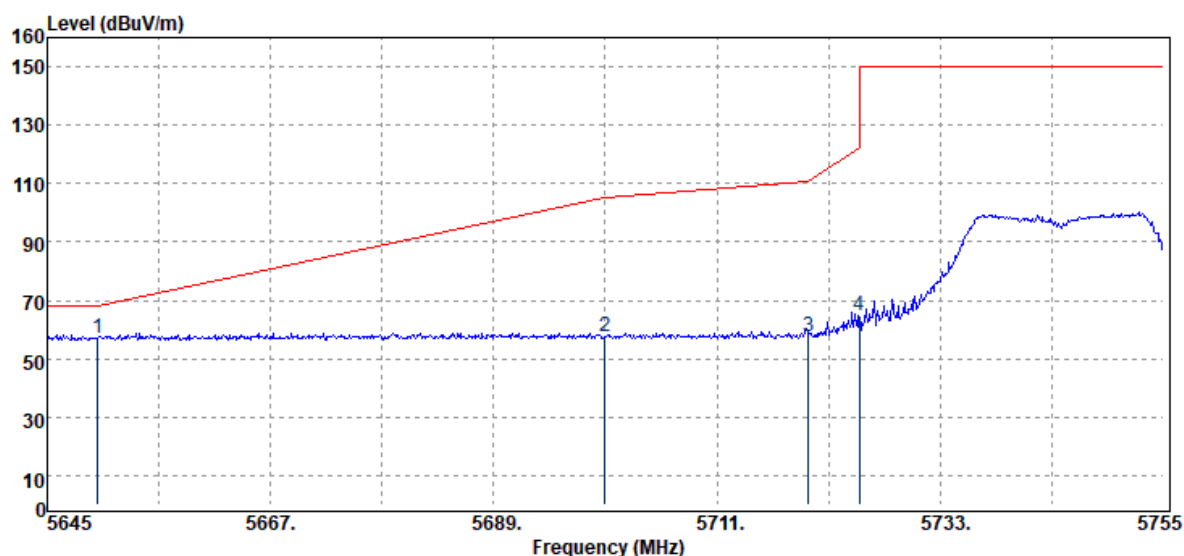
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Report Number :ER/2019/A0107
 Operation Mode :802.11n20B4
 Test Channel :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E1 Plane

Test Date :2019-11-15
 Temp./Humi. :24.5/64
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.00	7.02	57.02	68.20	-11.18
5700.00	Peak	50.11	7.54	57.65	105.20	-47.55
5720.00	Peak	50.03	7.53	57.56	110.80	-53.24
5725.00	Peak	57.06	7.53	64.59	122.20	-57.61

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台灣檢驗科技股份有限公司

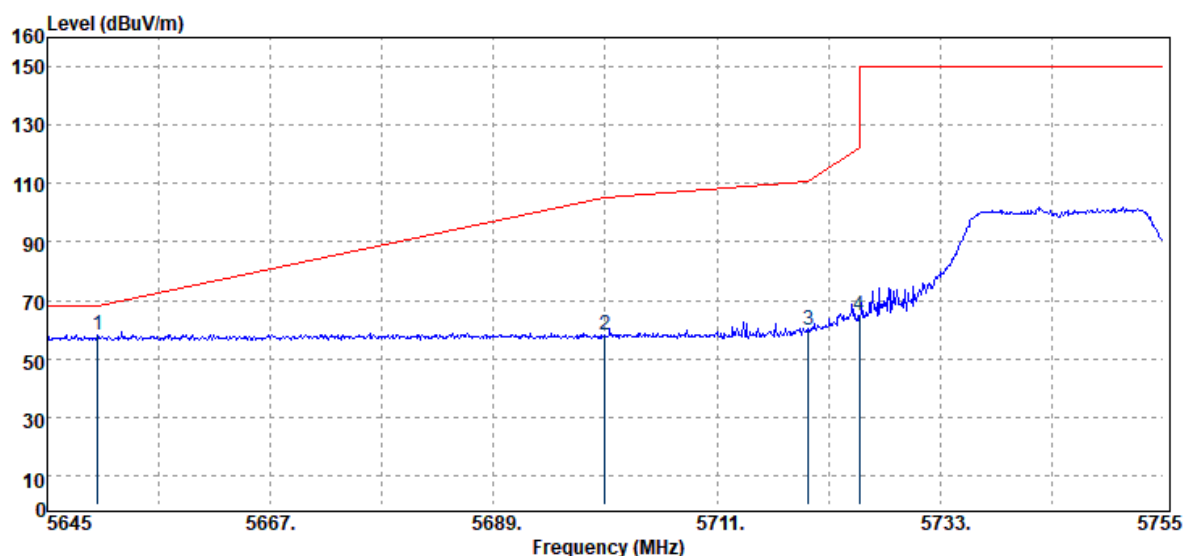
No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/ 新北市五股區新北產業園區五工路 134 號
 t (886-2) 2299-3279

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B4	Temp./Humi.	:24.5/64
Test Channel	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



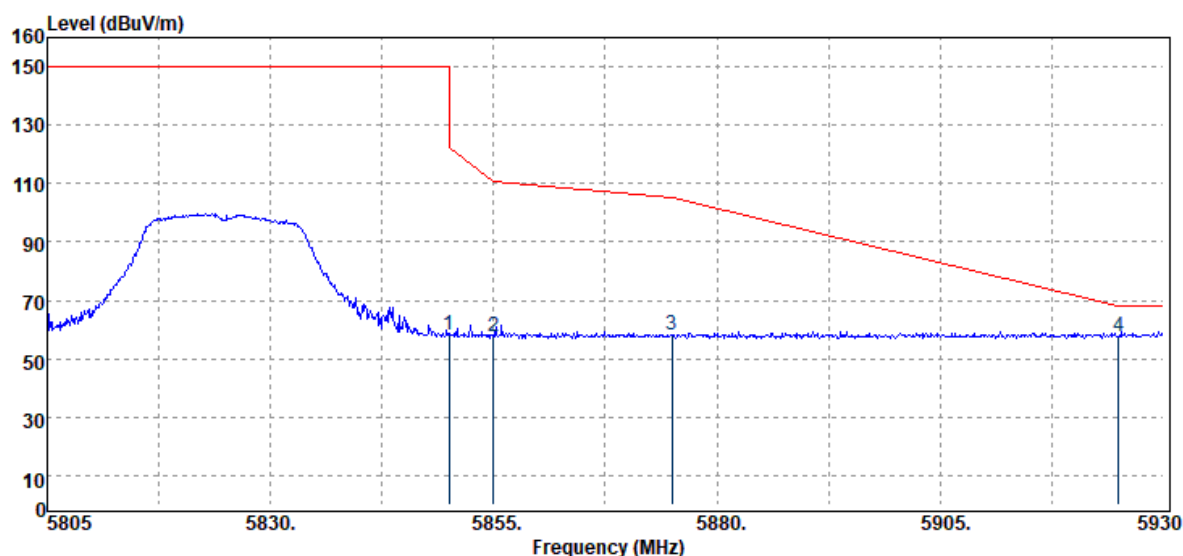
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.14	7.02	58.16	68.20	-10.04
5700.00	Peak	50.85	7.54	58.39	105.20	-46.81
5720.00	Peak	52.42	7.53	59.95	110.80	-50.85
5725.00	Peak	57.25	7.53	64.78	122.20	-57.42

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B4	Temp./Humi.	:24.5/64
Test Channel	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



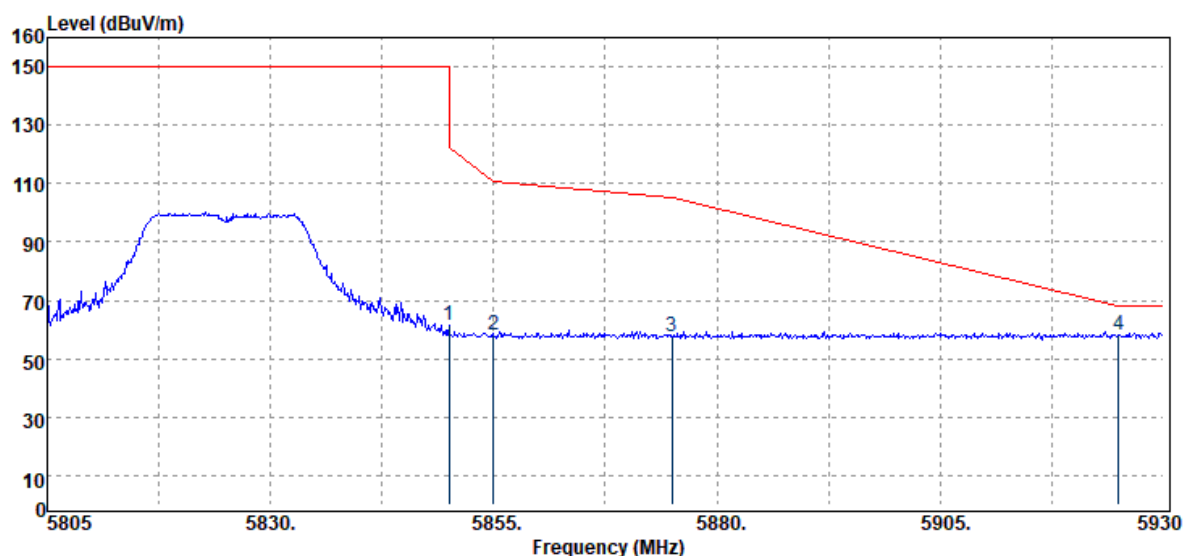
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.16	7.76	57.92	122.20	-64.28
5855.00	Peak	49.96	7.77	57.73	110.80	-53.07
5875.00	Peak	50.33	7.83	58.16	105.20	-47.04
5925.00	Peak	49.79	7.97	57.76	68.20	-10.44

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n20B4	Temp./Humi.	:24.5/64
Test Channel	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



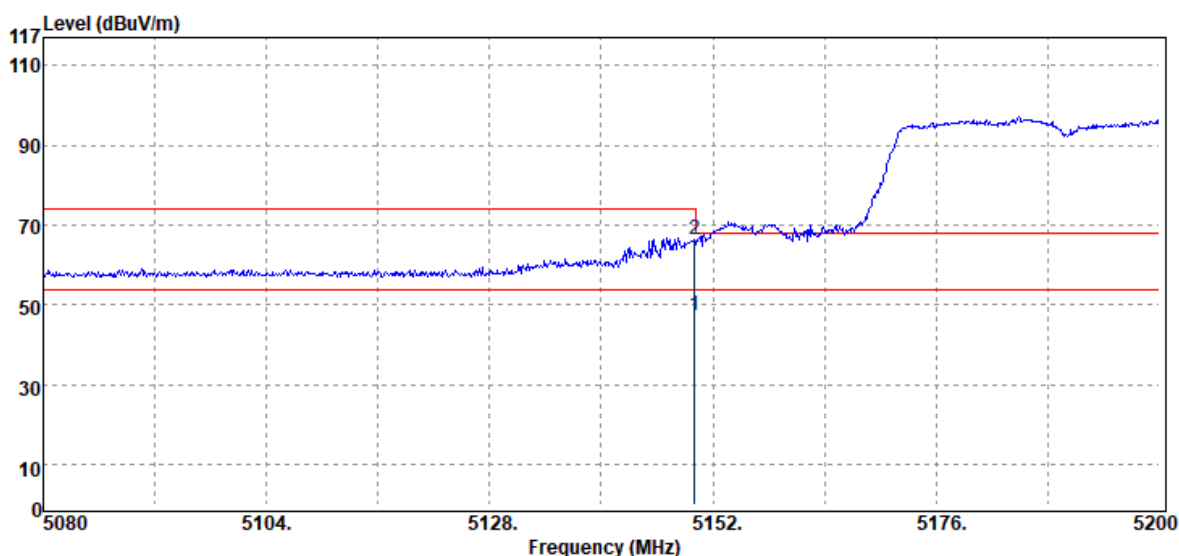
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	53.62	7.76	61.38	122.20	-60.82
5855.00	Peak	50.50	7.77	58.27	110.80	-52.53
5875.00	Peak	49.88	7.83	57.71	105.20	-47.49
5925.00	Peak	50.20	7.97	58.17	68.20	-10.03

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B1	Temp./Humi.	:24.5/64
Test Channel	:5190 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



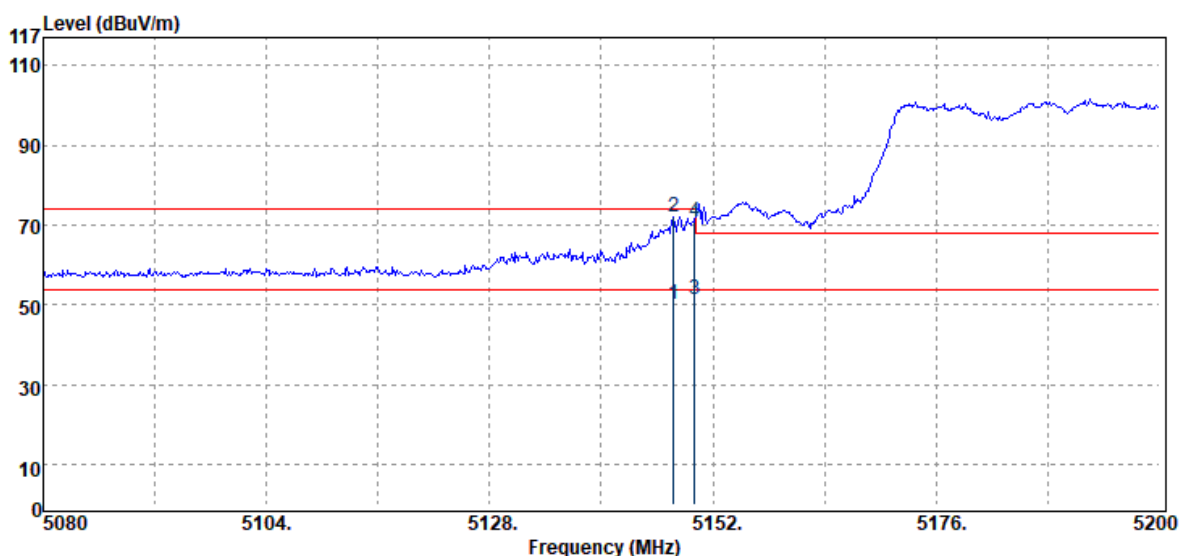
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	40.34	7.10	47.44	54.00	-6.56
5150.00	Peak	59.45	7.10	66.55	74.00	-7.45

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B1	Temp./Humi.	:24.5/64
Test Channel	:5190 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



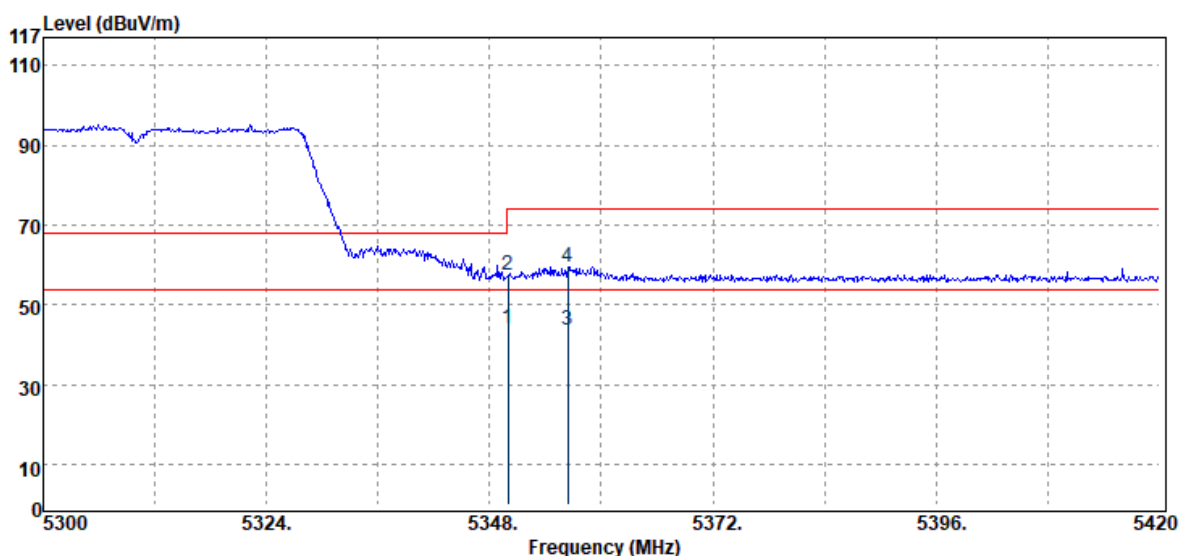
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.80	Average	42.88	7.12	50.00	54.00	-4.00
5147.80	Peak	65.09	7.12	72.21	74.00	-1.79
5150.00	Average	44.15	7.10	51.25	54.00	-2.75
5150.00	Peak	63.90	7.10	71.00	74.00	-3.00

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B2	Temp./Humi.	:24.5/64
Test Channel	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



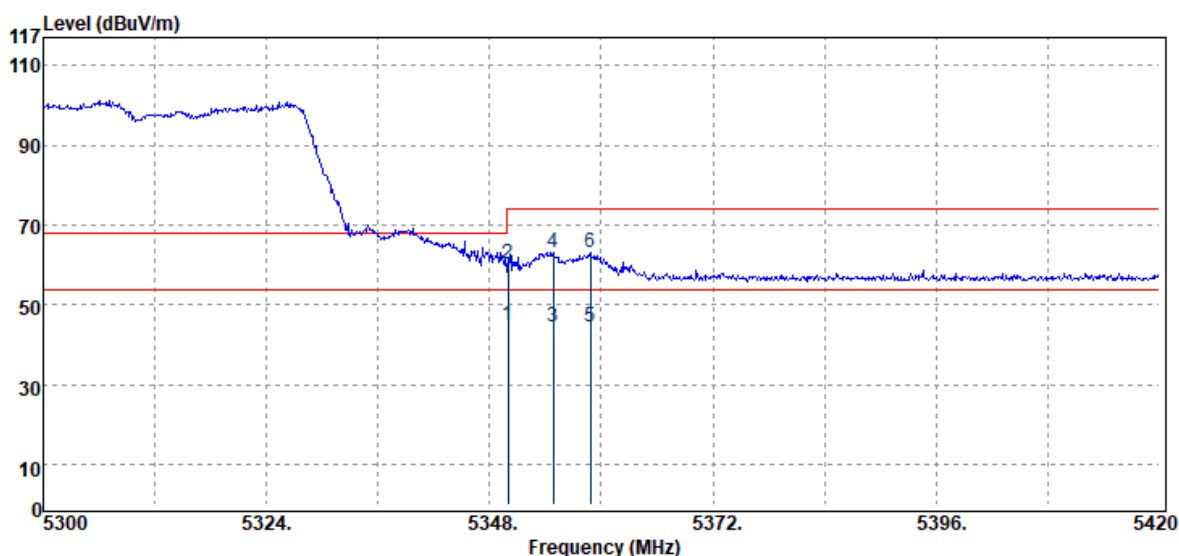
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.86	6.21	44.07	54.00	-9.93
5350.00	Peak	51.13	6.21	57.34	74.00	-16.66
5356.40	Average	37.55	6.24	43.79	54.00	-10.21
5356.40	Peak	53.39	6.24	59.63	74.00	-14.37

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B2	Temp./Humi.	:24.5/64
Test Channel	:5310 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.71	6.21	44.92	54.00	-9.08
5350.00	Peak	54.06	6.21	60.27	74.00	-13.73
5354.84	Average	38.20	6.23	44.43	54.00	-9.57
5354.84	Peak	57.02	6.23	63.25	74.00	-10.75
5358.80	Average	38.17	6.24	44.41	54.00	-9.59
5358.80	Peak	56.90	6.24	63.14	74.00	-10.86

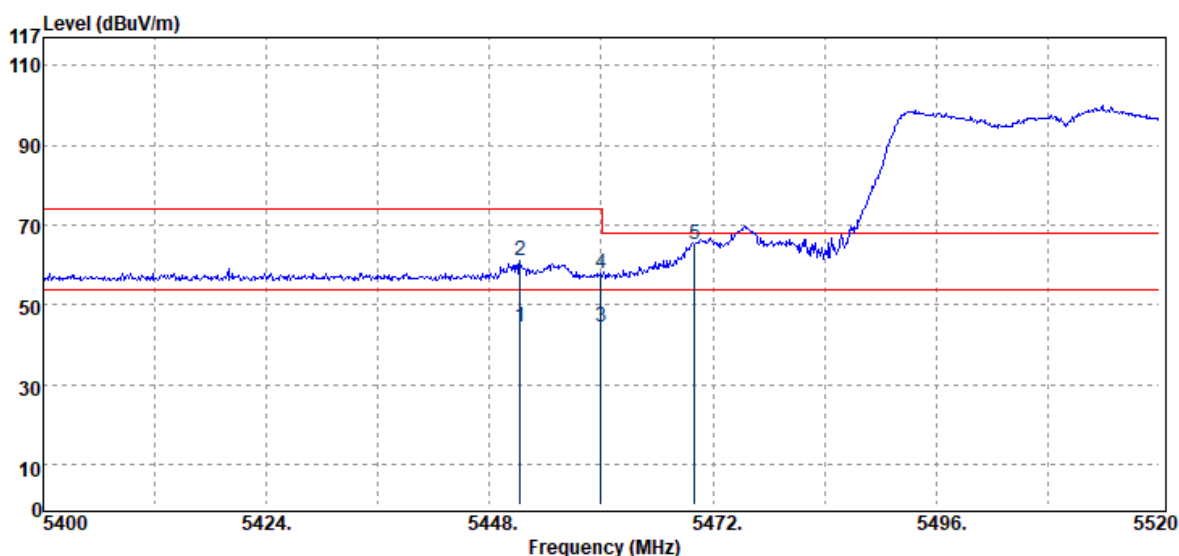
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Report Number :ER/2019/A0107
 Operation Mode :802.11n40B3
 Test Channel :5510 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E1 Plane

Test Date :2019-11-15
 Temp./Humi. :24.5/64
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5451.24	Average	38.08	6.62	44.70	54.00	-9.30
5451.24	Peak	54.38	6.62	61.00	74.00	-13.00
5460.00	Average	37.75	6.69	44.44	54.00	-9.56
5460.00	Peak	51.17	6.69	57.86	74.00	-16.14
5470.00	Peak	58.48	6.77	65.25	68.20	-2.95

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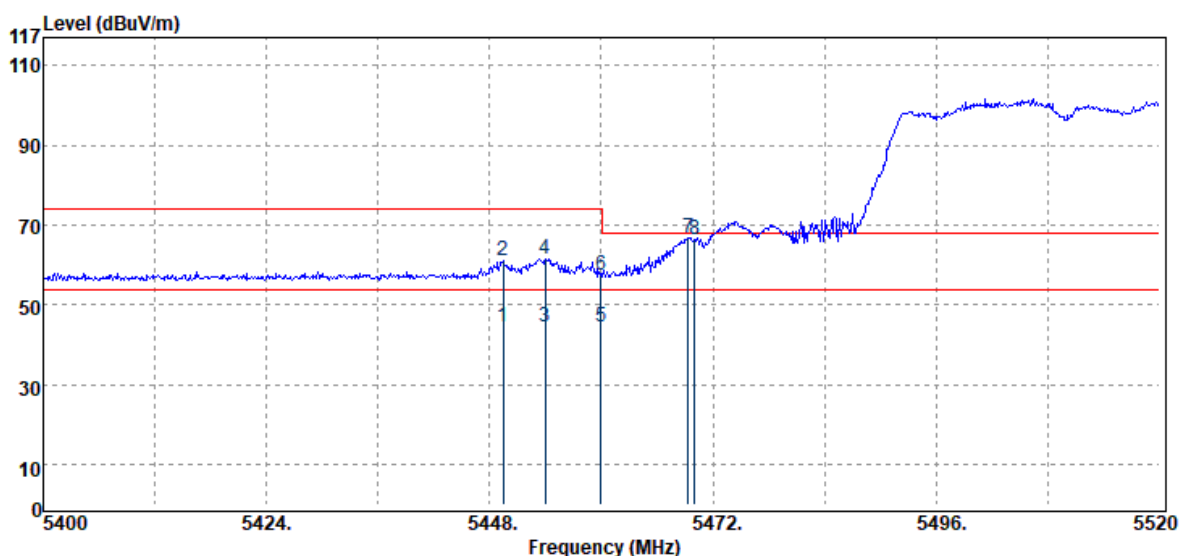
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Report Number :ER/2019/A0107
 Operation Mode :802.11n40B3
 Test Channel :5510 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E1 Plane

Test Date :2019-11-15
 Temp./Humi. :24.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5449.44	Average	37.94	6.61	44.55	54.00	-9.45
5449.44	Peak	54.41	6.61	61.02	74.00	-12.98
5454.00	Average	37.98	6.65	44.63	54.00	-9.37
5454.00	Peak	54.81	6.65	61.46	74.00	-12.54
5460.00	Average	37.97	6.69	44.66	54.00	-9.34
5460.00	Peak	50.74	6.69	57.43	74.00	-16.57
5469.36	Peak	60.22	6.77	66.99	68.20	-1.21
5470.00	Peak	59.71	6.77	66.48	68.20	-1.72

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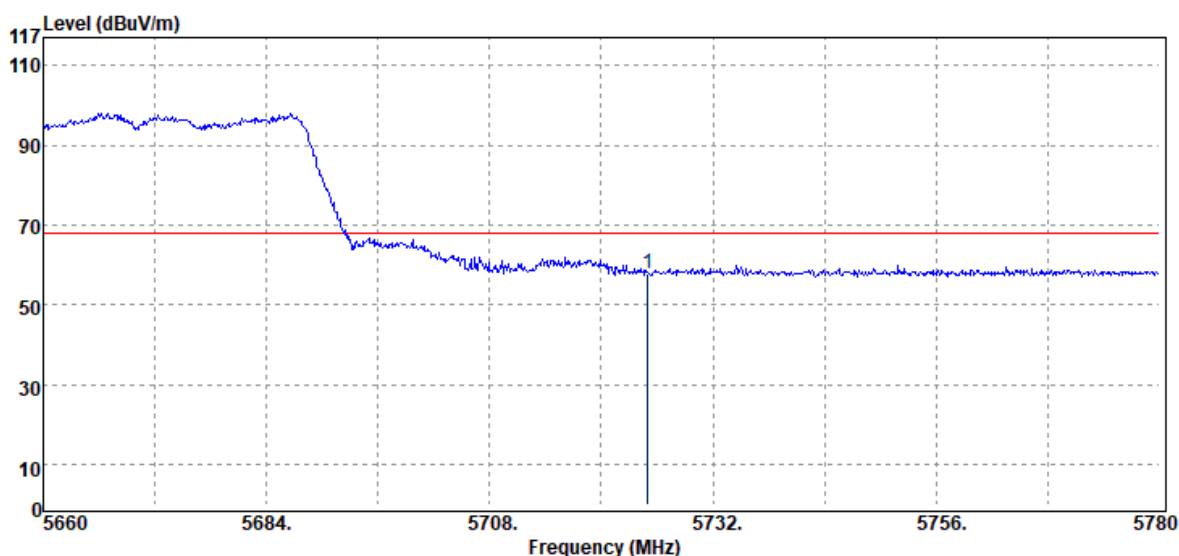
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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B3	Temp./Humi.	:24.5/64
Test Channel	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



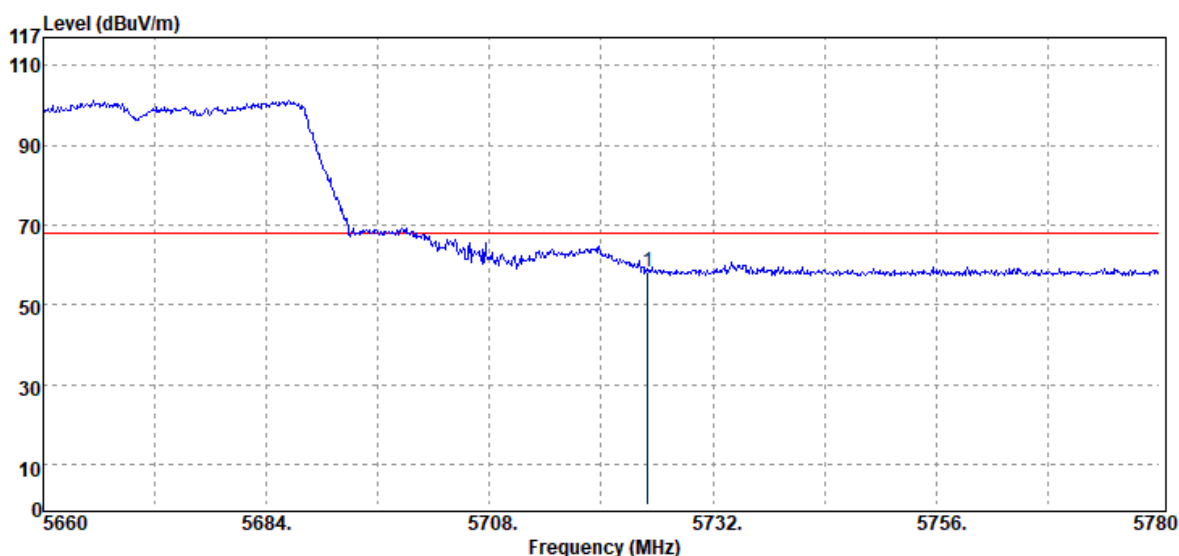
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	50.37	7.53	57.90	68.20	-10.30

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B3	Temp./Humi.	:24.5/64
Test Channel	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



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	50.93	7.53	58.46	68.20	-9.74

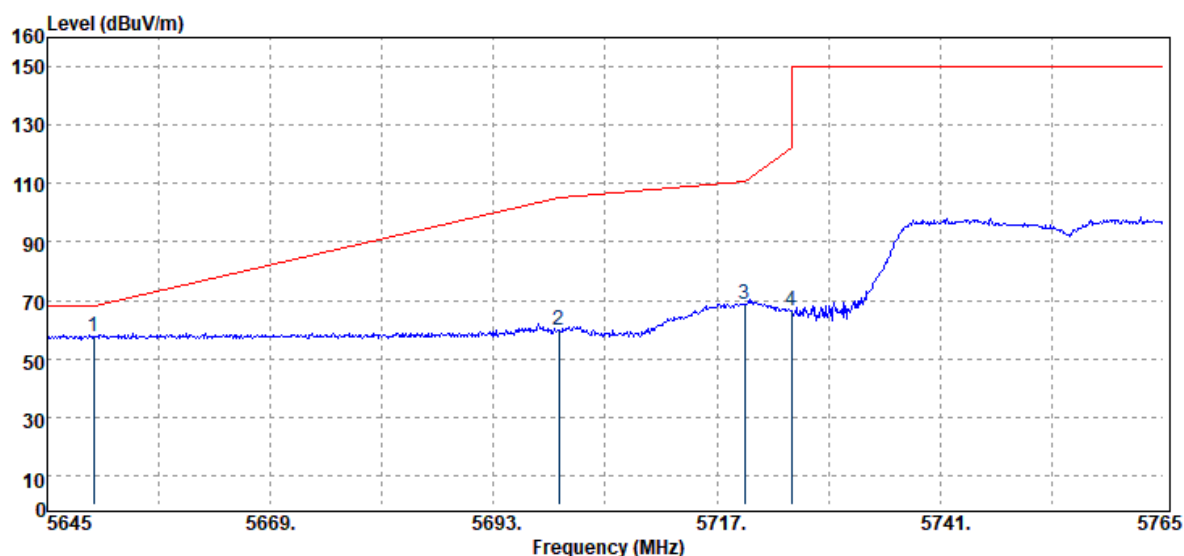
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Report Number :ER/2019/A0107
 Operation Mode :802.11n40B4
 Test Channel :5755 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E1 Plane

Test Date :2019-11-15
 Temp./Humi. :24.5/64
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.29	7.02	57.31	68.20	-10.89
5700.00	Peak	52.10	7.54	59.64	105.20	-45.56
5720.00	Peak	61.02	7.53	68.55	110.80	-42.25
5725.00	Peak	58.86	7.53	66.39	122.20	-55.81

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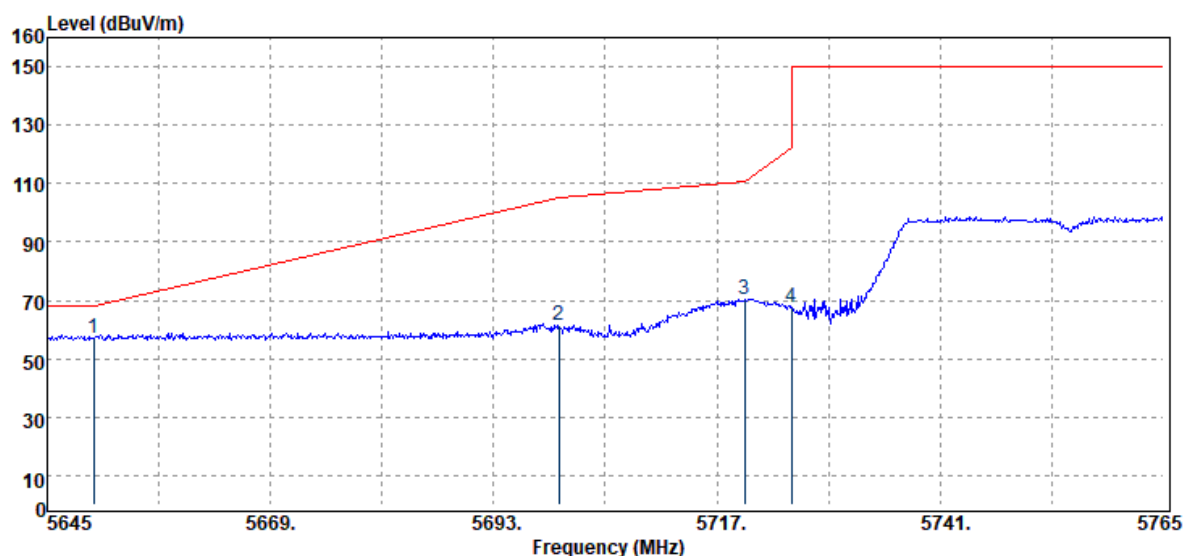
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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B4	Temp./Humi.	:24.5/64
Test Channel	:5755 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



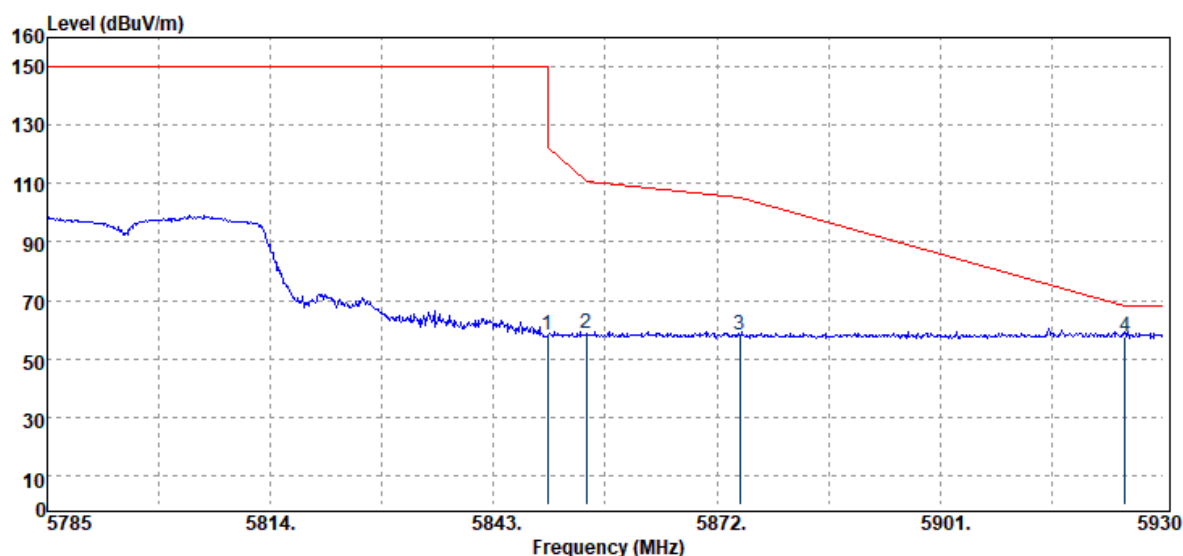
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.25	7.02	57.27	68.20	-10.93
5700.00	Peak	54.07	7.54	61.61	105.20	-43.59
5720.00	Peak	62.73	7.53	70.26	110.80	-40.54
5725.00	Peak	59.76	7.53	67.29	122.20	-54.91

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B4	Temp./Humi.	:24.5/64
Test Channel	:5795 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



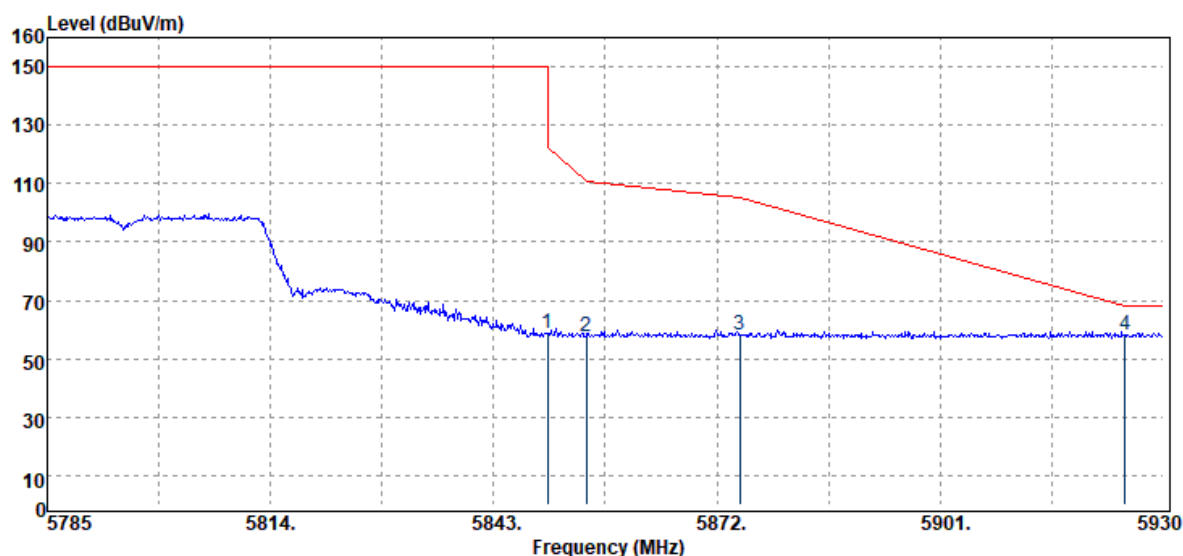
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.27	7.76	58.03	122.20	-64.17
5855.00	Peak	51.00	7.77	58.77	110.80	-52.03
5875.00	Peak	50.18	7.83	58.01	105.20	-47.19
5925.00	Peak	49.38	7.97	57.35	68.20	-10.85

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11n40B4	Temp./Humi.	:24.5/64
Test Channel	:5795 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



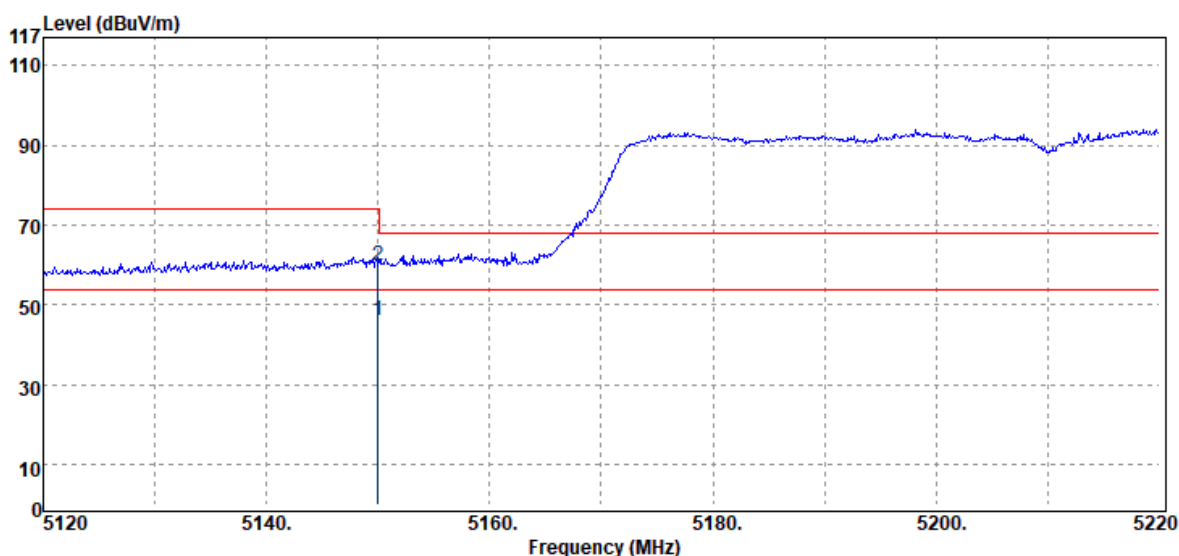
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	51.08	7.76	58.84	122.20	-63.36
5855.00	Peak	50.07	7.77	57.84	110.80	-52.96
5875.00	Peak	50.35	7.83	58.18	105.20	-47.02
5925.00	Peak	50.20	7.97	58.17	68.20	-10.03

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B1	Temp./Humi.	:24.5/64
Test Channel	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



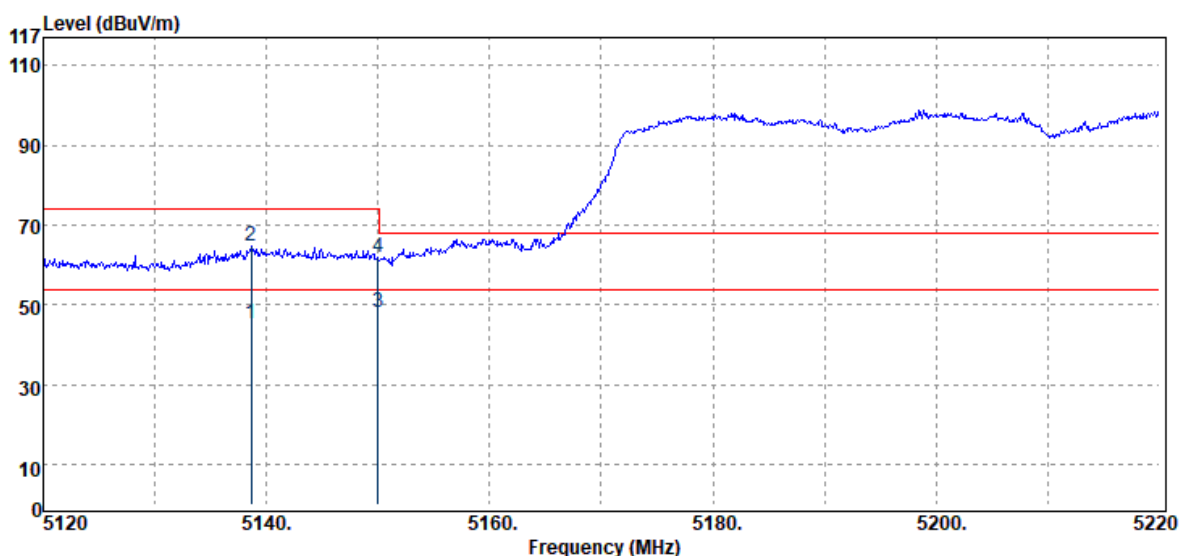
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	39.09	7.10	46.19	54.00	-7.81
5150.00	Peak	52.80	7.10	59.90	74.00	-14.10

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B1	Temp./Humi.	:24.5/64
Test Channel	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



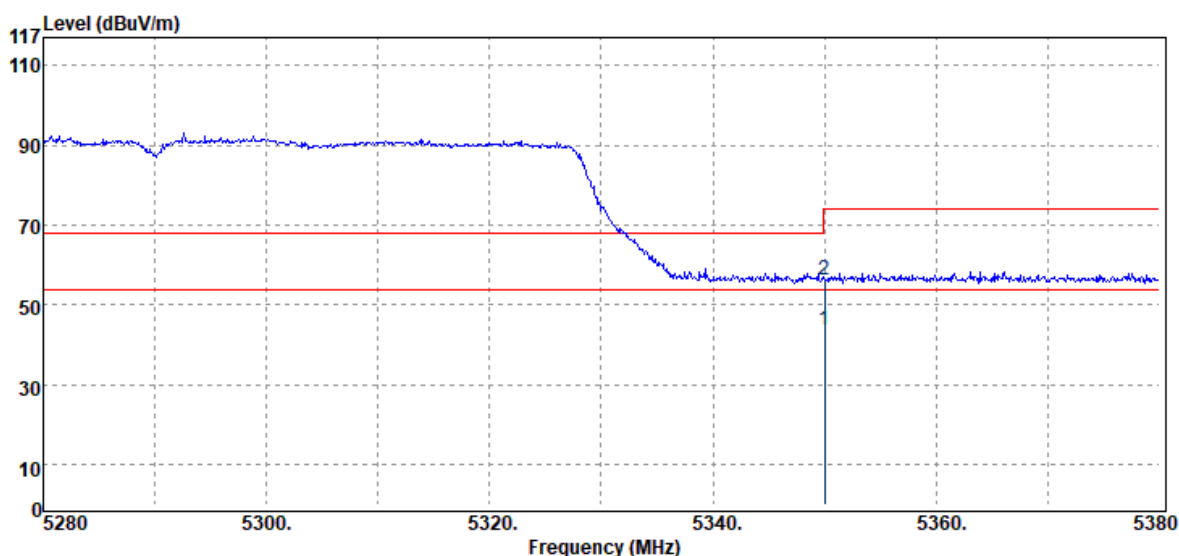
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5138.60	Average	38.11	7.18	45.29	54.00	-8.71
5138.60	Peak	57.68	7.18	64.86	74.00	-9.14
5150.00	Average	41.00	7.10	48.10	54.00	-5.90
5150.00	Peak	54.99	7.10	62.09	74.00	-11.91

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B2	Temp./Humi.	:24.5/64
Test Channel	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



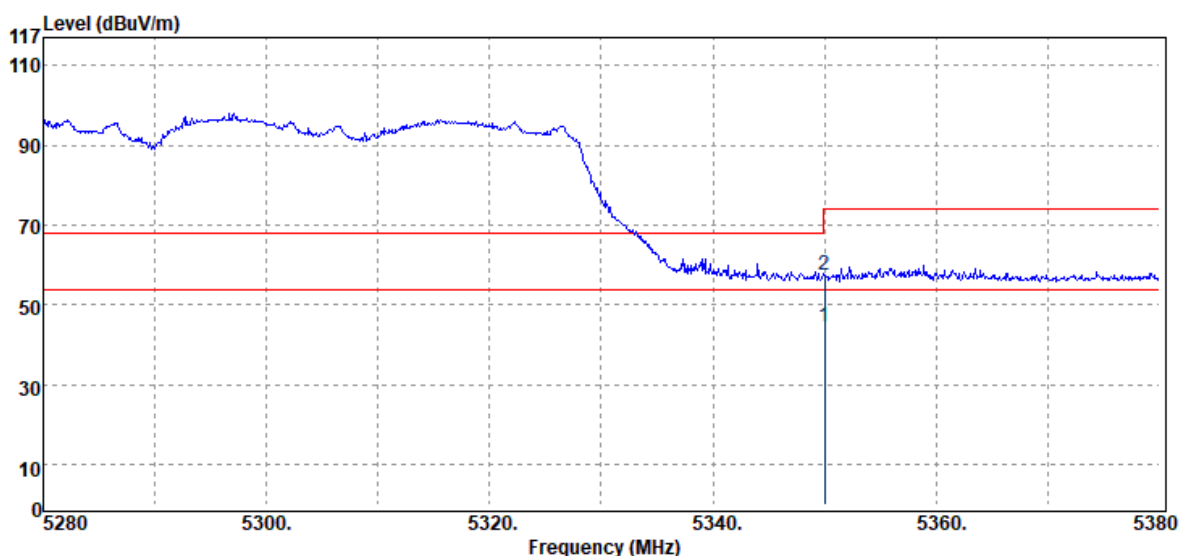
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.54	6.21	43.75	54.00	-10.25
5350.00	Peak	50.10	6.21	56.31	74.00	-17.69

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B2	Temp./Humi.	:24.5/64
Test Channel	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



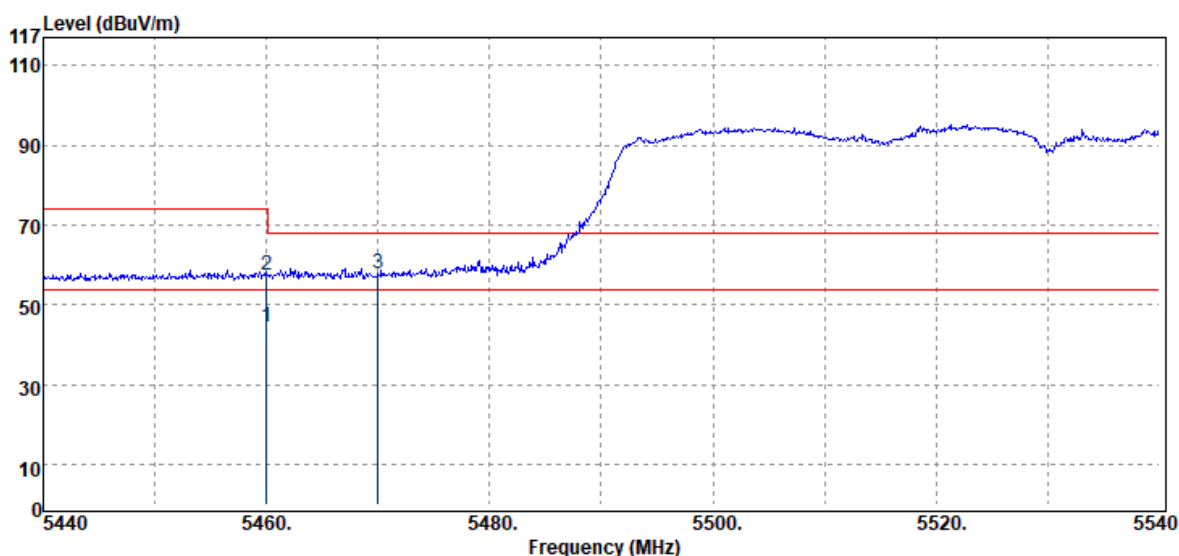
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.14	6.21	44.35	54.00	-9.65
5350.00	Peak	51.18	6.21	57.39	74.00	-16.61

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B3	Temp./Humi.	:24.5/64
Test Channel	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



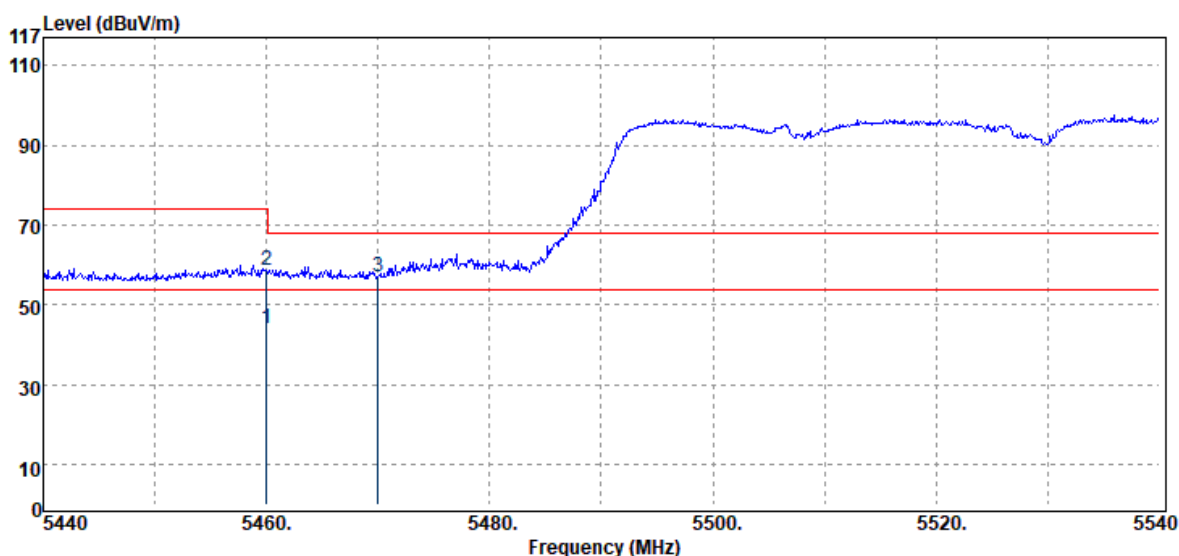
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.88	6.69	44.57	54.00	-9.43
5460.00	Peak	50.80	6.69	57.49	74.00	-16.51
5470.00	Peak	51.16	6.77	57.93	68.20	-10.27

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B3	Temp./Humi.	:24.5/64
Test Channel	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



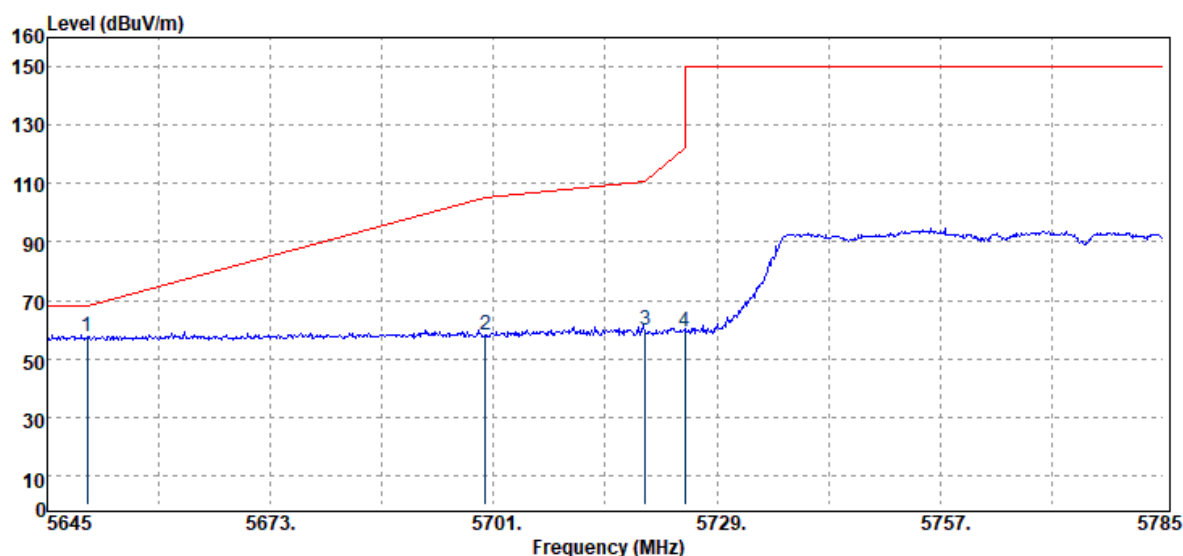
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.63	6.69	44.32	54.00	-9.68
5460.00	Peak	51.94	6.69	58.63	74.00	-15.37
5470.00	Peak	50.48	6.77	57.25	68.20	-10.95

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B4	Temp./Humi.	:24.5/64
Test Channel	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



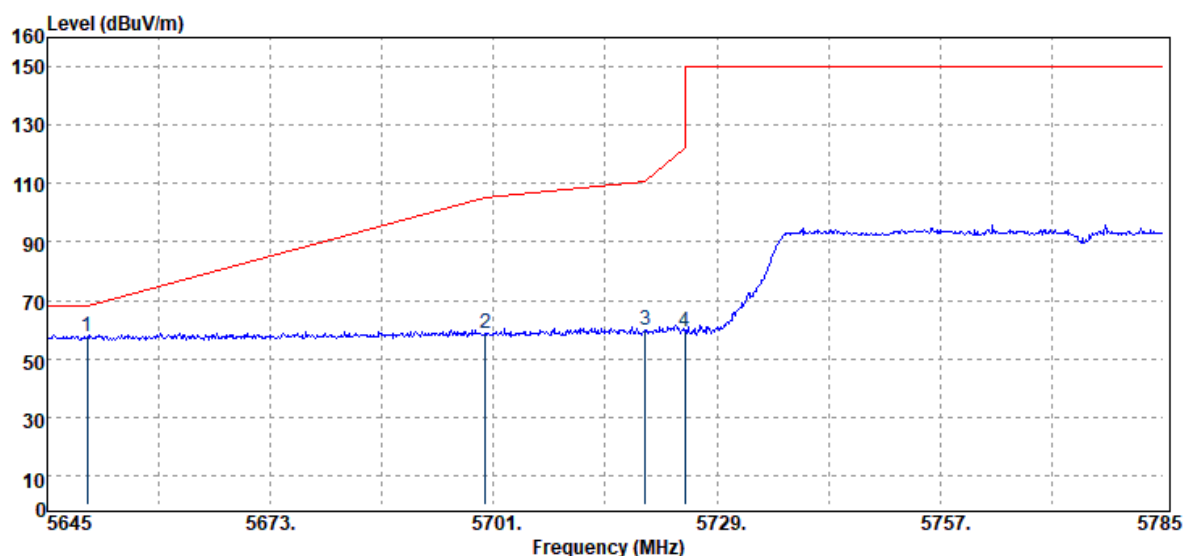
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.73	7.02	57.75	68.20	-10.45
5700.00	Peak	50.63	7.54	58.17	105.20	-47.03
5720.00	Peak	52.50	7.53	60.03	110.80	-50.77
5725.00	Peak	51.50	7.53	59.03	122.20	-63.17

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B4	Temp./Humi.	:24.5/64
Test Channel	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:E1 Plane		



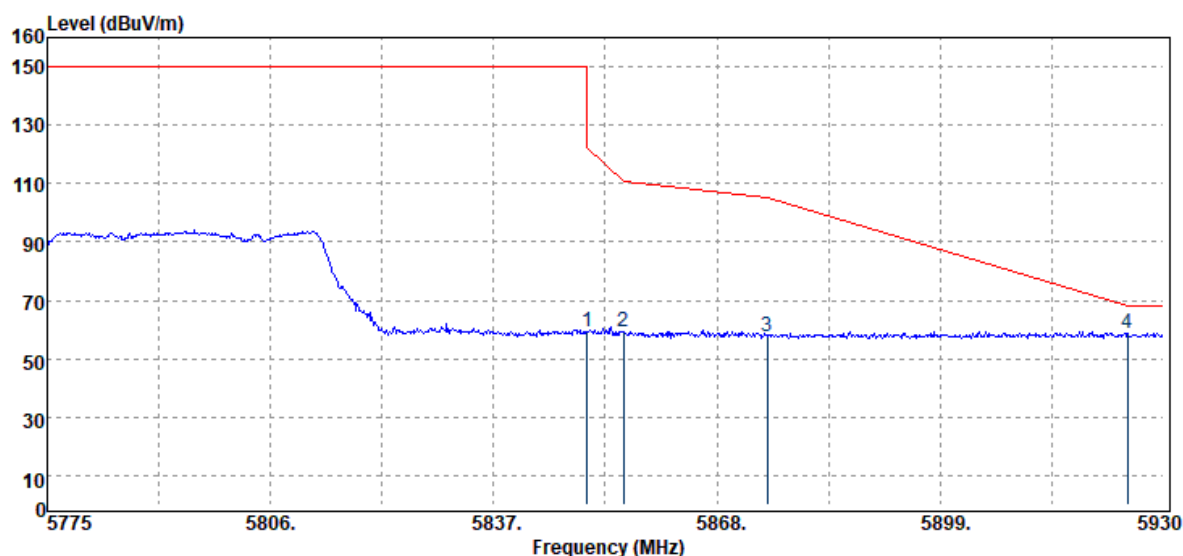
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	50.49	7.02	57.51	68.20	-10.69
5700.00	Peak	50.94	7.54	58.48	105.20	-46.72
5720.00	Peak	52.07	7.53	59.60	110.80	-51.20
5725.00	Peak	51.63	7.53	59.16	122.20	-63.04

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Report Number	:ER/2019/A0107	Test Date	:2019-11-15
Operation Mode	:802.11ac80B4	Temp./Humi.	:24.5/64
Test Channel	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



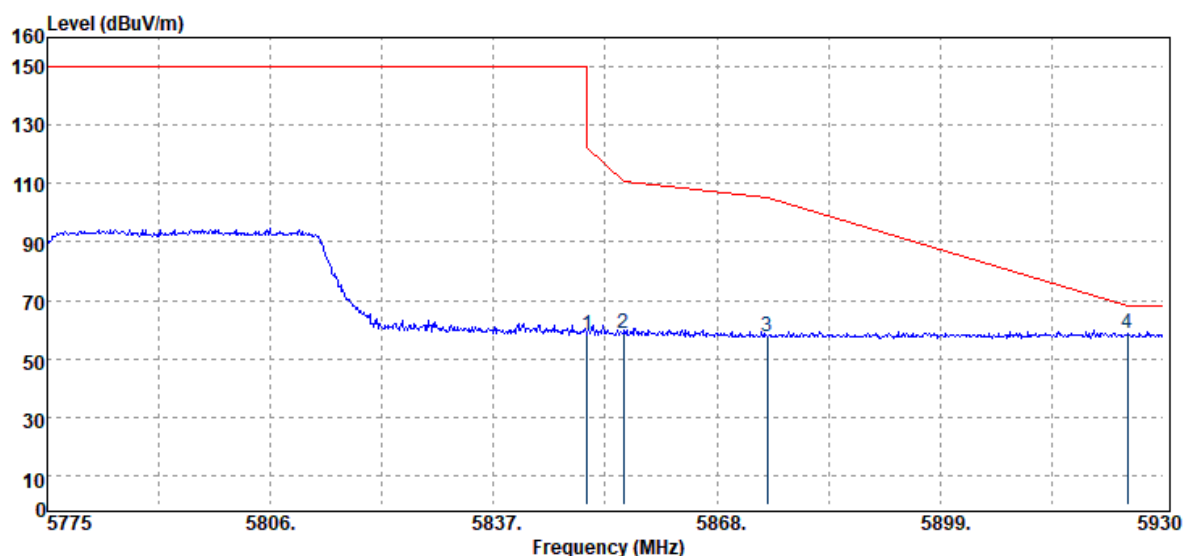
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	51.27	7.76	59.03	122.20	-63.17
5855.00	Peak	51.64	7.77	59.41	110.80	-51.39
5875.00	Peak	49.71	7.83	57.54	105.20	-47.66
5925.00	Peak	50.79	7.97	58.76	68.20	-9.44

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Operation Mode	:802.11ac80B4	Temp./Humi.	:24.5/64
Test Channel	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:E1 Plane		



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	50.49	7.76	58.25	122.20	-63.95
5855.00	Peak	50.69	7.77	58.46	110.80	-52.34
5875.00	Peak	49.72	7.83	57.55	105.20	-47.65
5925.00	Peak	50.48	7.97	58.45	68.20	-9.75

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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

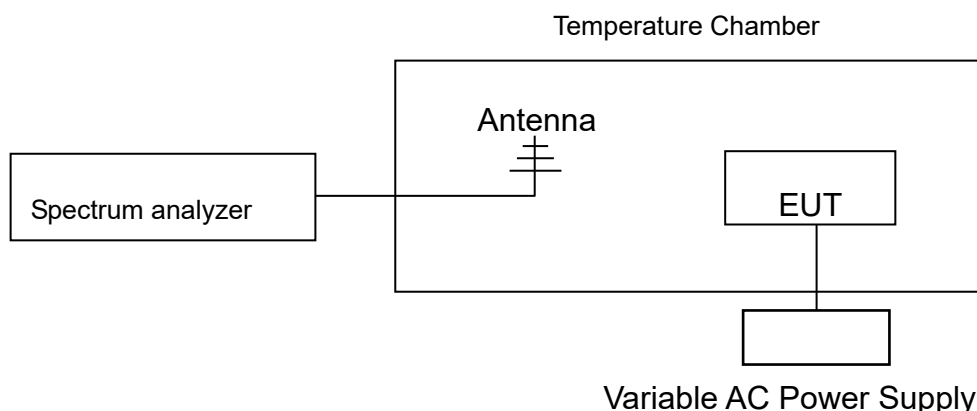
13.1 Standard Applicable

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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2019	05/16/2020

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019/10/30
Temperature	: 25.1	Test By	Kevin, Peter
Humidity	: 59%		

Test Temp.()	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,180.09500	-0.00001834
	3.7	36	5180	5,180.08100	-0.00001564
25	3.85	36	5180	5,180.06400	-0.00001236
35	4	36	5180	5,179.97900	0.00000405
	3.7	36	5180	5,179.96600	0.00000656

2 Minutes:

Operation Mode	802.11 a	Test Date	2019/10/30
Temperature	: 25.1	Test By	Kevin, Peter
Humidity	: 59%		

Test Temp.()	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,179.91800	0.00001583
	3.7	36	5180	5,179.98000	0.00000386
25	3.85	36	5180	5,180.06300	-0.00001216
35	4	36	5180	5,180.02200	-0.00000425
	3.7	36	5180	5,180.02600	-0.00000502

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5 Minutes:

Operation Mode	802.11 a	Test Date	2019/10/30
Temperature	: 25.1	Test By	Kevin,Peter
Humidity	: 59%		

Test Temp.()	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,180.09300	-0.00001795
	3.7	36	5180	5,179.92700	0.00001409
25	3.85	36	5180	5,180.00000	0.00000000
35	4	36	5180	5,179.97700	0.00000444
	3.7	36	5180	5,179.96500	0.00000676

10 Minutes:

Operation Mode	802.11 a	Test Date	2019/10/30
Temperature	: 25.1	Test By	Kevin,Peter
Humidity	: 59%		

Test Temp.()	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,180.02500	-0.00000483
	3.7	36	5180	5,180.08200	-0.00001583
25	3.85	36	5180	5,180.03600	-0.00000695
35	4	36	5180	5,179.94800	0.00001004
	3.7	36	5180	5,179.95200	0.00000927

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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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