

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Product Name: Dev Board Mini

Brand Name: Google

Model No.: KA1

Model Difference: N/A

Report Number: E2/2020/50133

FCC ID: HFS-NX2KA1

FCC Rule Part: §15.407, Cat: NII

Issue Date: Aug. 11, 2020

Date of Test: May 27, 2020 ~ Jun. 24, 2020

**Date of EUT Re-
ceived:** May 27, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. 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:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/50133	Rev.00	Original.	Aug. 11, 2020	Revised By: Stefanie Yu

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Dev Board Mini	
Brand Name:	Google	
Model No.:	KA1	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	5Vdc from Host	
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only	
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps	802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps

1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Chip	TDK	N/A	5150~5250	2.4
			5250~5350	2.4
			5470~5725	2.3
			5725~5850	2.8

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1.3 FCC worst power

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)	Modulation Technology
a	5150~5250	4	12.76	OFDM
	5250~5350	4	12.99	
	5470~5725	12	12.81	
	5725~5850	5	12.78	
n_HT ac_VHT 20M	5150~5250	4	HT: 11.90	OFDM
	5250~5350	4	HT: 11.97	
	5470~5725	12	HT: 11.95	
	5725~5850	5	HT: 11.58	
n_HT ac_VHT 40M	5150~5250	2	HT: 11.98	OFDM
	5250~5350	2	HT: 12.15	
	5470~5725	6	HT: 11.97	
	5725~5850	2	HT: 12.00	
ac_VHT 80M	5150~5250	1	10.33	OFDM
	5250~5350	1	10.56	
	5470~5725	3	10.51	
	5725~5850	1	10.37	

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1.4 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

1.5 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

2.4.1 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.

2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Emission Configuration

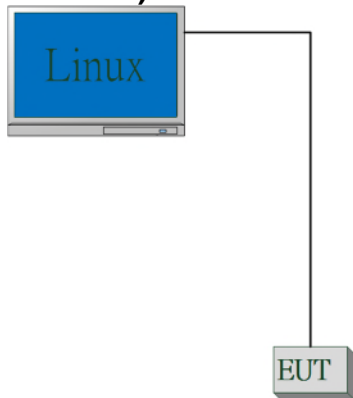


Fig 2-2 Conduction (AC Power Line) Emission

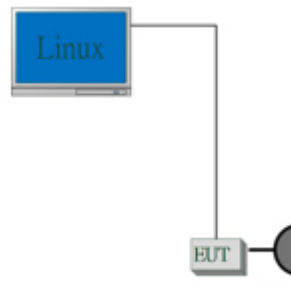


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Dell	P66F	28241894594	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, 99%& 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	
CH	Freq (MHz)
36	5180
40	5200
44	5220
48	5240

40 M	
CH	Freq (MHz)
38	5190
46	5230

80 M	
CH	Freq (MHz)
42	5210

Operated band in 5250 MHz ~5350 MHz:

20 M	
CH	Freq (MHz)
52	5260
56	5280
60	5300
64	5320

40 M	
CH	Freq (MHz)
54	5270
62	5310

80 M	
CH	Freq (MHz)
58	5290

Operated band in 5470 MHz ~5725 MHz:

20 M	
CH	Freq (MHz)
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

40 M	
CH	Freq (MHz)
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

80 M	
CH	Freq (MHz)
106	5530
122	5610
138	5690

Operated band in 5725 MHz ~5850 MHz:

20 M	
CH	Freq (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

40 M	
CH	Freq (MHz)
151	5755
159	5795

80 M	
CH	Freq (MHz)
155	5775

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4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain				Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 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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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT80	5210	42	42		MCS0	SISO
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20 802.11ac_VHT20	5180~5240	36 to 48	36,44,48		MCS 0	SISO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 144	100,116,140,144			
	5500~5720	100 to 144	100,116,140,144			
802.11n_HT40 802.11ac_VHT40	5745~5825	149 to 165	149,157,165		MCS 0	SISO
	5190~5230	38 to 46	38,46			
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
802.11ac_VHT80	5755~5795	151 to 159	151,159		MCS0	SISO
	5210	42	42			
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

Note:

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

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路134號

t (886-2) 2299-3279

f (886-2) 2298-0488

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4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20 / 802.11ac_VHT20	5180~5240	36 to 48	36,44,48		MCS0	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40 / 802.11ac_VHT40	5190~5230	38 to 46	38,46		MCS0	Ch0
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42		MCS0	Ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

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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.
LISN	SCHWARZBECK Mess-Elektronik	NSLK812 7	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021
Test Software	audix	e3	Ver. 6.11- 20180419c	N.C.R	N.C.R

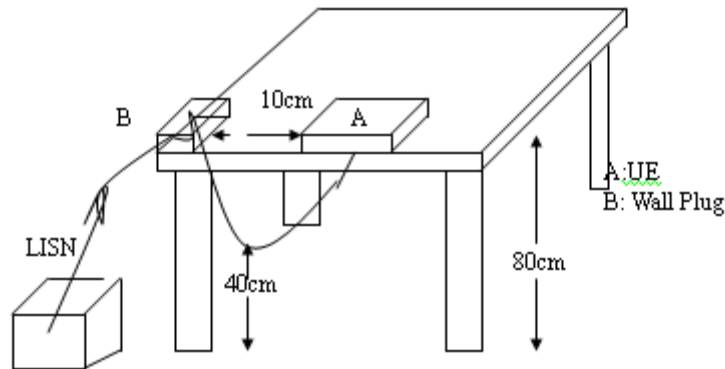
6.3 EUT Setup

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

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6.4 Test SET-UP



6.5 Measurement Procedure

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

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.
Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :E2/2020/50133

Test Date :2020-06-19

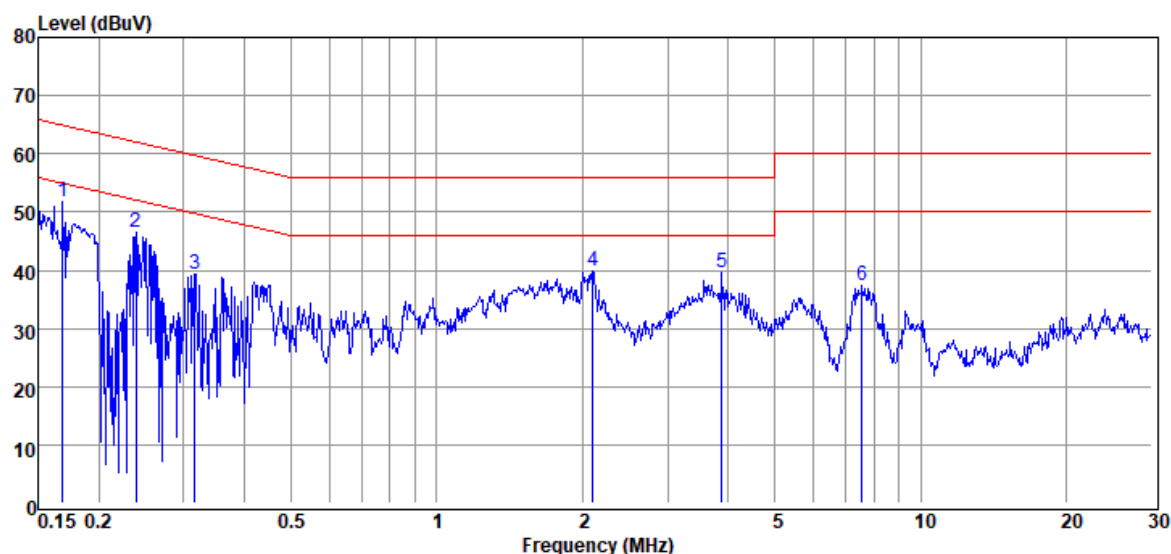
Test Mode :WLAN 5G

Temp./Humi. :25.2/59

Power :120V/60Hz

Engineer :Kailin

Probe :L1



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.17	Peak	41.41	10.22	51.63	65.03	-13.40
0.24	Peak	36.15	10.22	46.37	62.13	-15.76
0.32	Peak	29.09	10.22	39.31	59.80	-20.49
2.10	Peak	29.48	10.45	39.93	56.00	-16.07
3.88	Peak	29.04	10.48	39.52	56.00	-16.48
7.57	Peak	26.63	10.62	37.25	60.00	-22.75

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台灣檢驗科技股份有限公司

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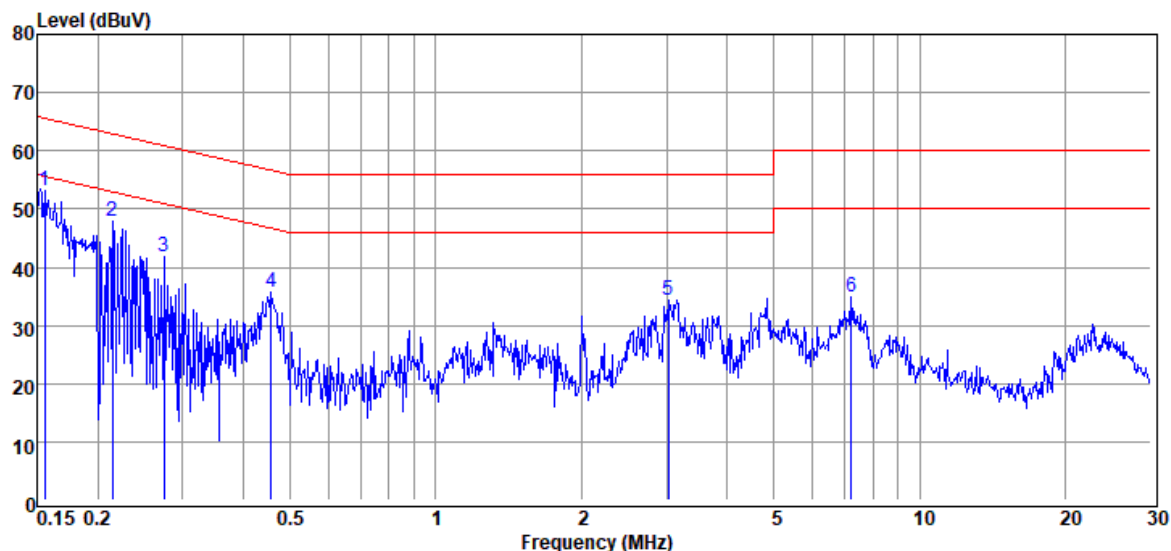
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Report Number :E2/2020/50133
Test Mode :WLAN 5G
Power :120V/60Hz
Probe :N

Test Date :2020-06-19
Temp./Humi. :25.2/59
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Peak	43.01	10.21	53.22	65.69	-12.47
0.22	Peak	37.76	10.21	47.97	63.01	-15.04
0.27	Peak	31.51	10.21	41.72	60.98	-19.26
0.46	Peak	25.44	10.22	35.66	56.76	-21.10
3.03	Peak	23.95	10.47	34.42	56.00	-21.58
7.21	Peak	24.21	10.62	34.83	60.00	-25.17

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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:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	93.25	0.30	0.72	1.00
802.11n_20	92.80	0.32	0.77	1.00
802.11ac_20	93.17	0.31	0.76	1.00
802.11n_40	87.01	0.60	1.54	2.00
802.11ac_40	86.86	0.61	1.53	2.00
802.11ac_80	84.29	0.74	3.10	4.00

✓ Duty Cycle Factor: $10 * \log(1/0.9325) = 0.3$

✓ Duty Cycle Factor: $10 * \log(1/0.928) = 0.32$

✓ Duty Cycle Factor: $10 * \log(1/0.9317) = 0.31$

✓ Duty Cycle Factor: $10 * \log(1/0.8701) = 0.6$

✓ Duty Cycle Factor: $10 * \log(1/0.8686) = 0.61$

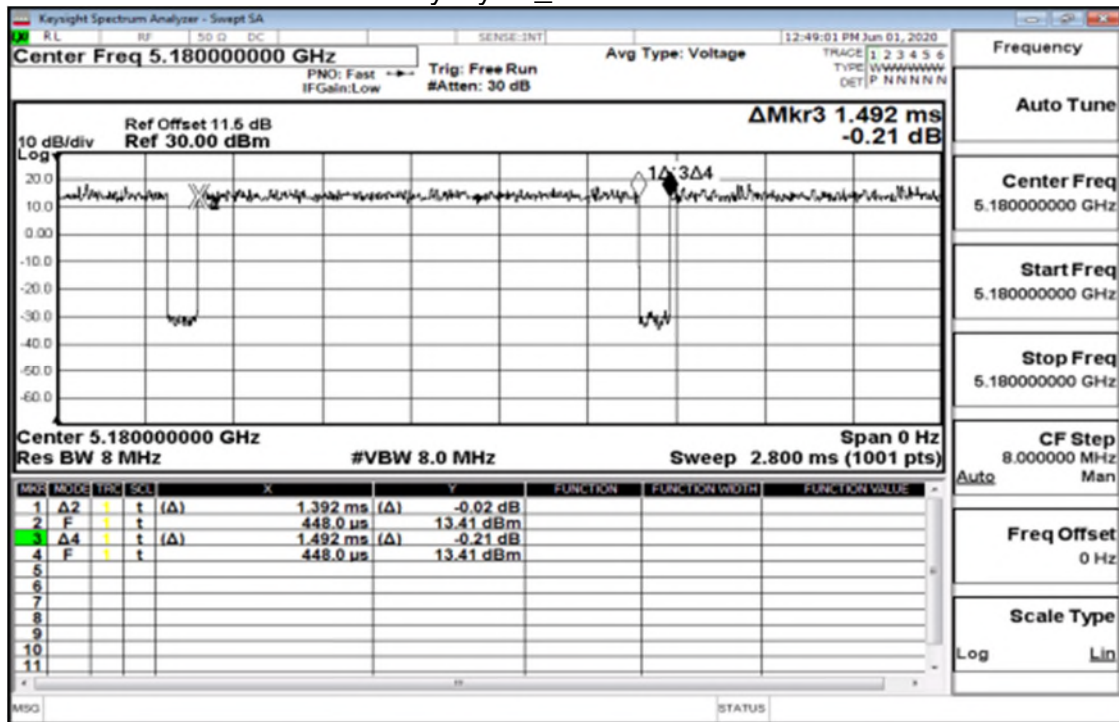
✓ Duty Cycle Factor: $10 * \log(1/0.8429) = 0.74$

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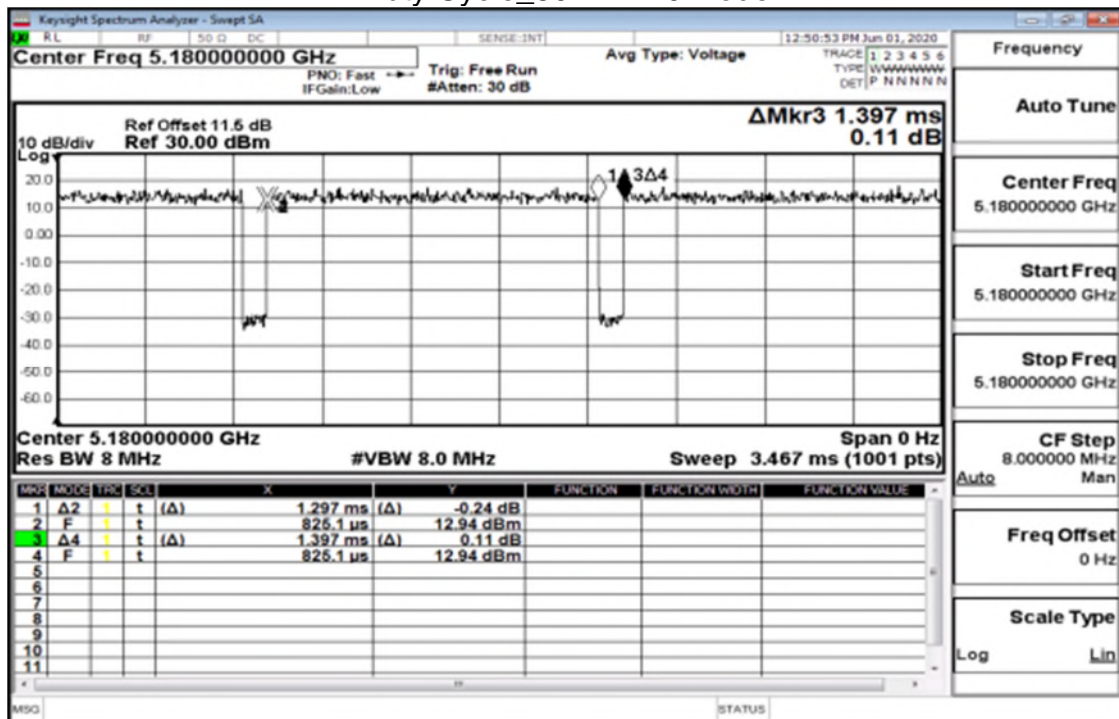
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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

Duty Cycle_802.11a mode



Duty Cycle_802.11n20 mode

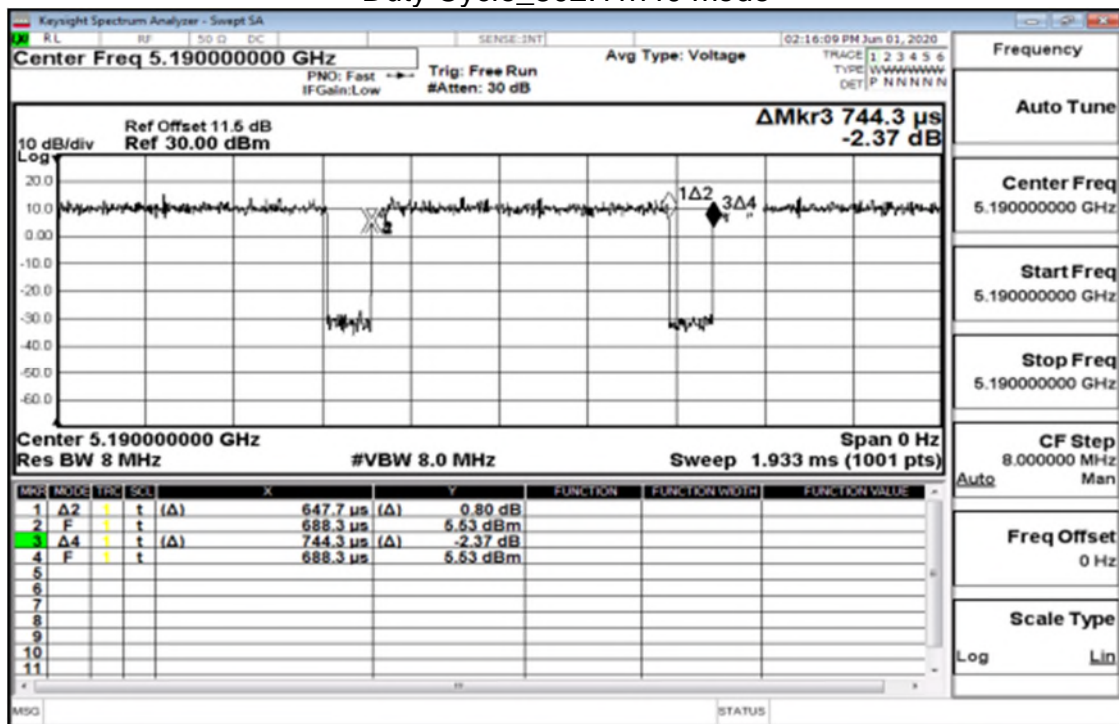


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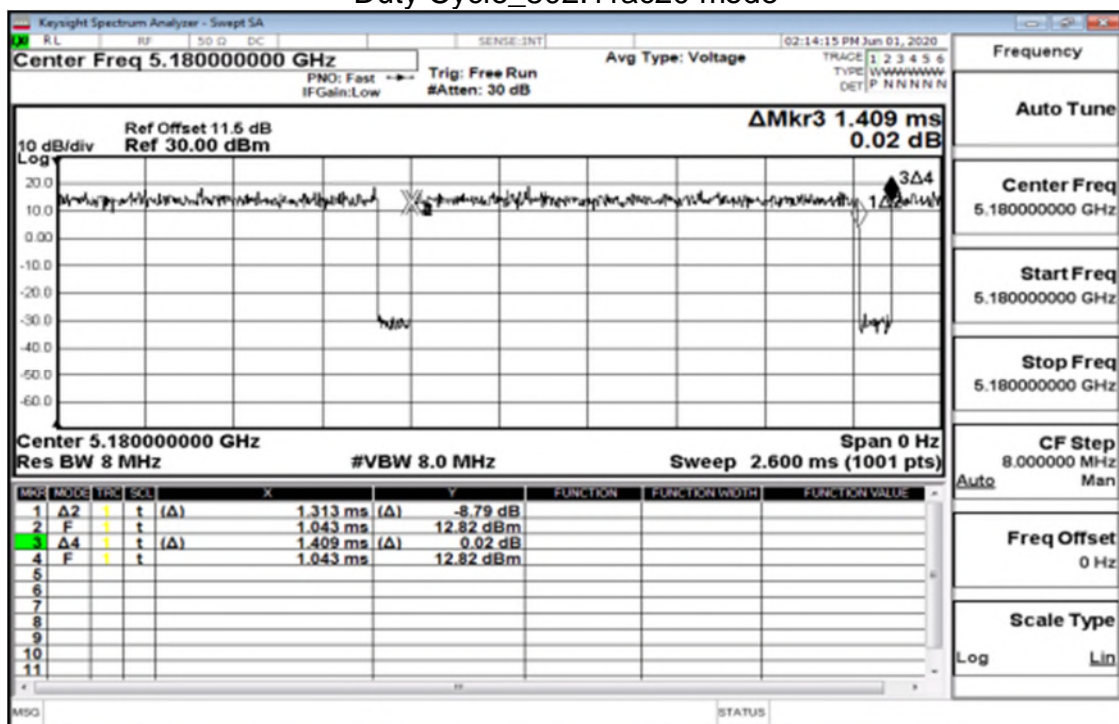
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Duty Cycle_802.11n40 mode



Duty Cycle_802.11ac20 mode

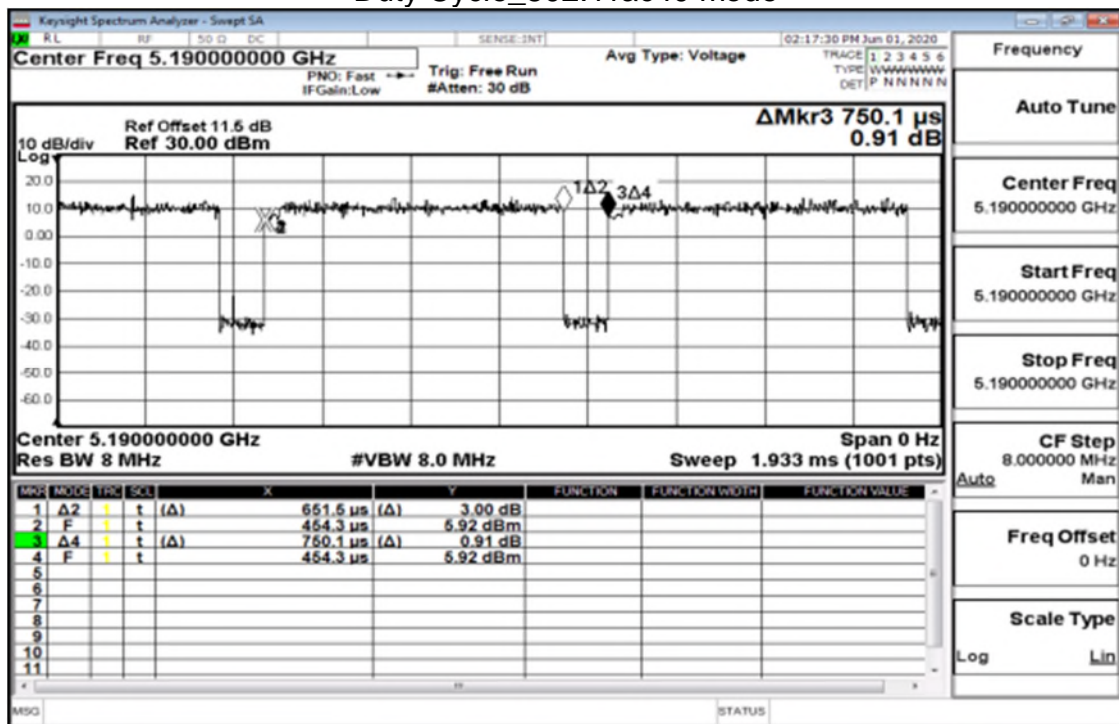


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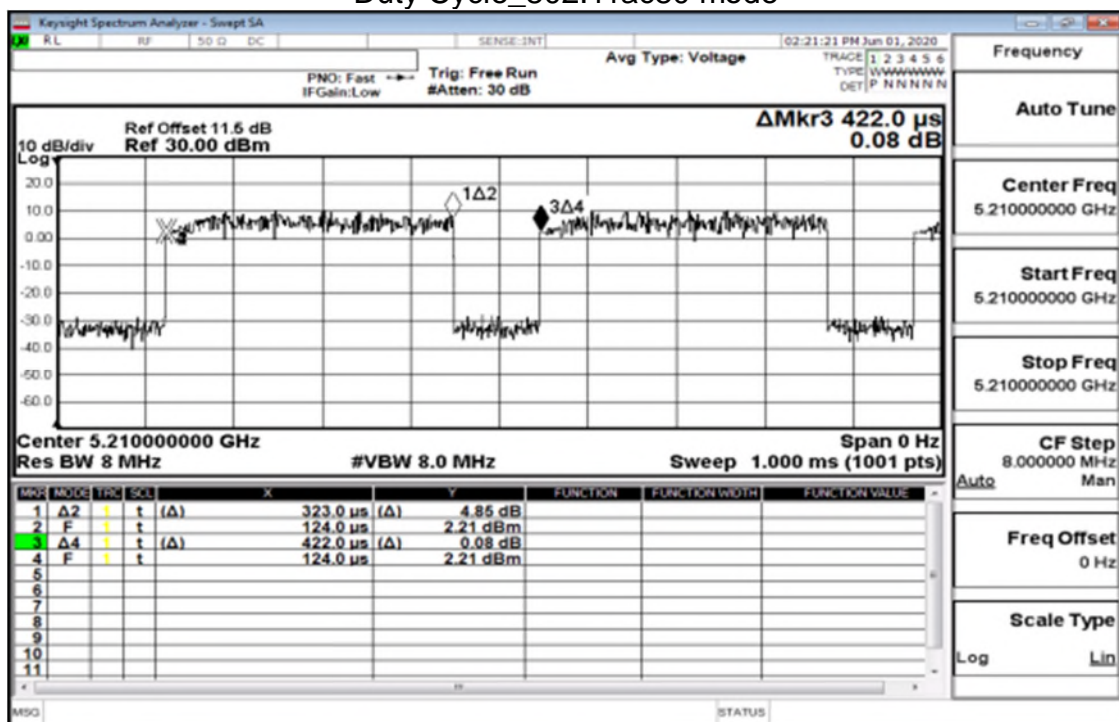
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Duty Cycle_802.11ac40 mode



Duty Cycle_802.11ac80 mode



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8 26DB, 99% & 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.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = 30M/50MHz,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as
RBW=1%,
VBW = 3*RBW,
Span = 30M/50MHz,
Detector=Sample,
Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

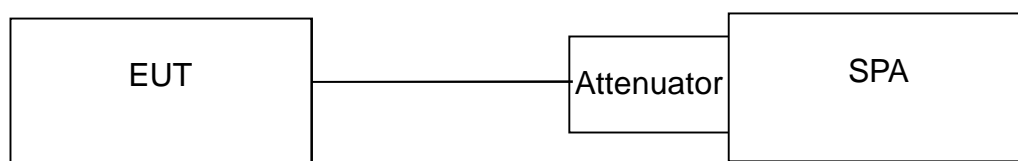
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8.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTER-NACK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

8.4 Test Set-up



8.5 Measurement Result

8.5.1 FCC 26dB Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.63	12.929
5220	19.69	12.942
5240	19.55	12.911
5260	19.41	12.880
5300	19.75	12.956
5320	19.64	12.931
5500	19.69	12.942
5580	19.52	12.905
5700	19.74	12.953
5720	20.11	13.034

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.26	13.066
5220	20.05	13.021
5240	20.13	13.038
5260	19.94	12.997
5300	20.02	13.015
5320	19.96	13.002
5500	19.89	12.986
5580	19.91	12.991
5700	20.05	13.021
5720	19.87	12.982

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.09	16.137
5230	40.44	16.068
5270	40.14	16.036
5310	40.93	16.120
5510	40.29	16.052
5550	40.6	16.085
5670	40.04	16.025
5710	40.31	16.054

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.33	19.103
5290	81.09	19.090
5530	81	19.085
5610	81.42	19.107
5690	80.9	19.079

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8.5.2 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	12.35	10.917
5785	14.48	11.608
5825	15.81	11.989

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.11	11.793
5785	16.98	12.299
5825	15.02	11.767

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.17	15.462
5795	35.1	15.453

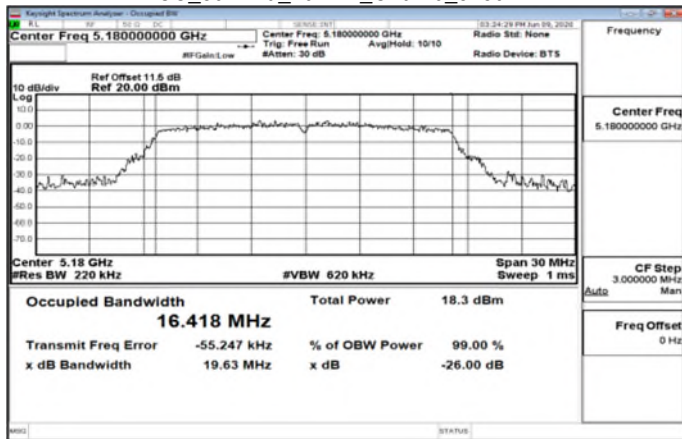
802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.25	18.765

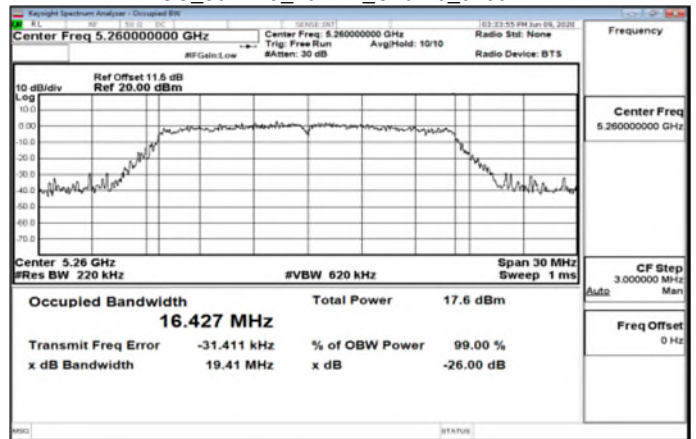
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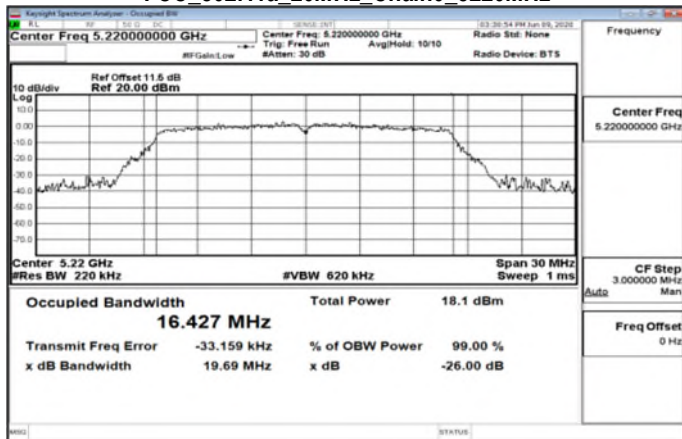
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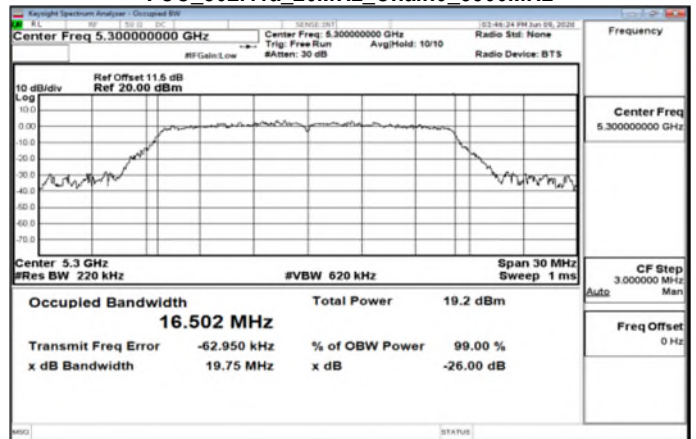
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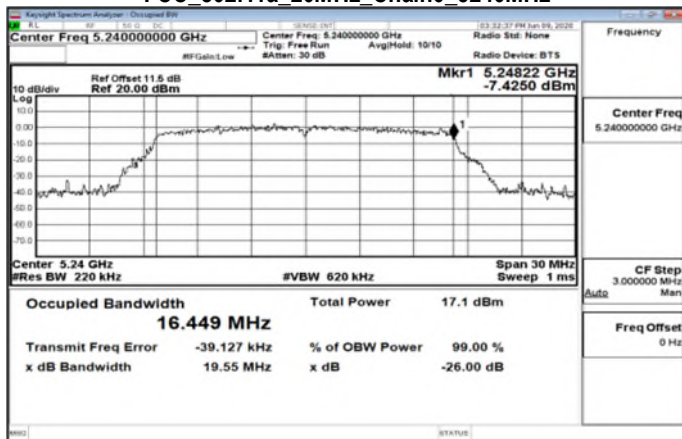
FCC 802.11a 20MHz Chain0_5220MHz



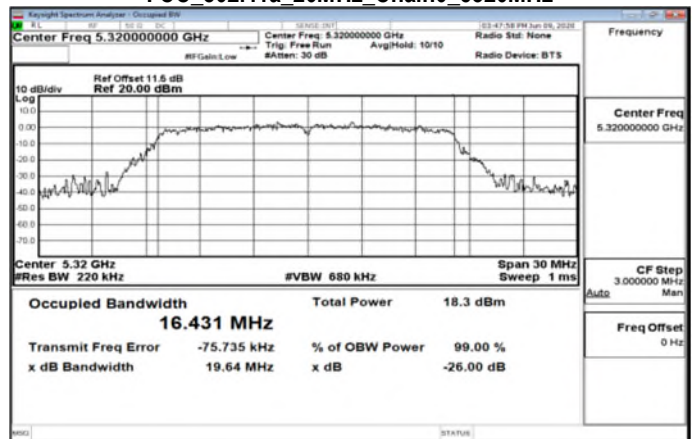
FCC 802.11a 20MHz Chain0_5300MHz



FCC 802.11a 20MHz Chain0_5240MHz



FCC 802.11a 20MHz Chain0_5320MHz

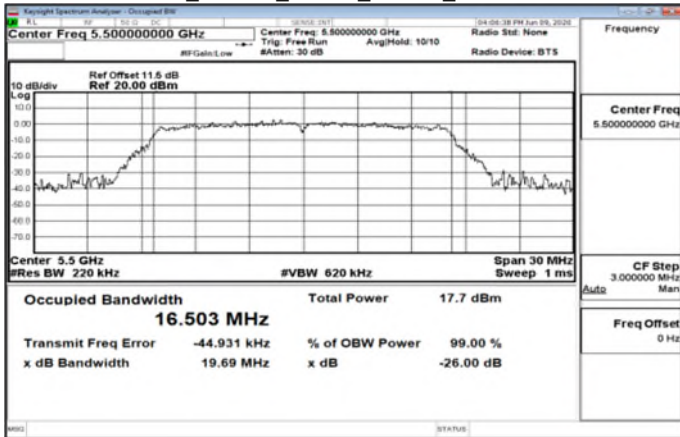


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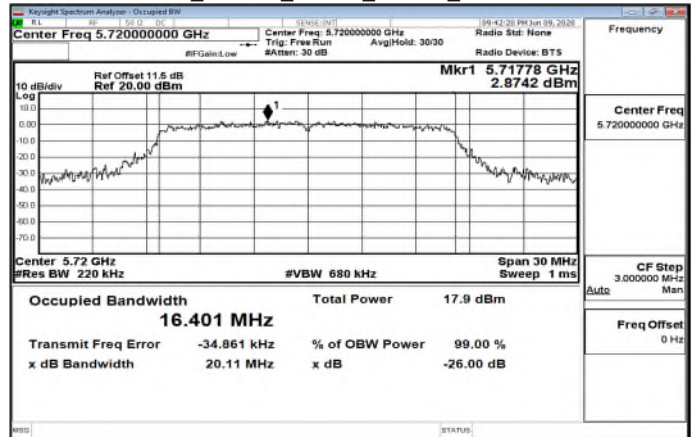
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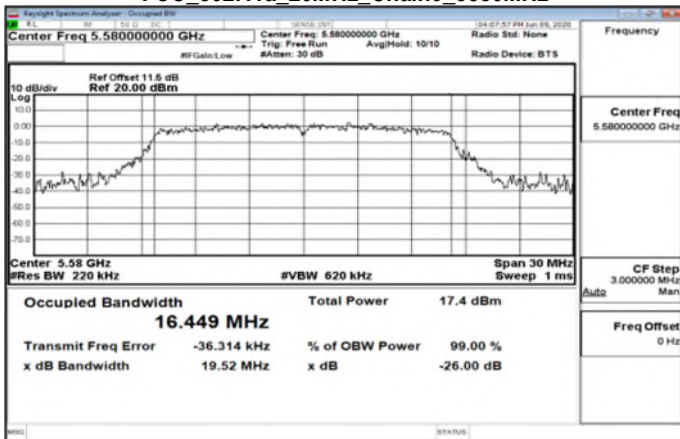
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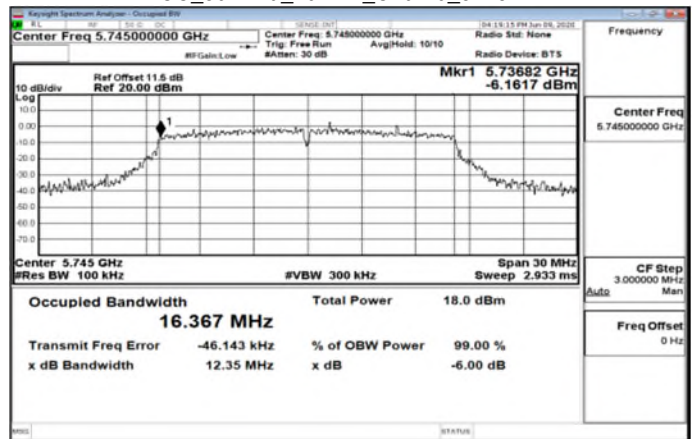
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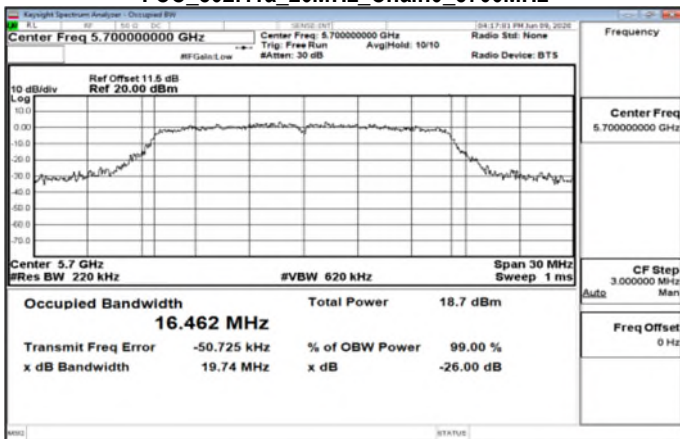
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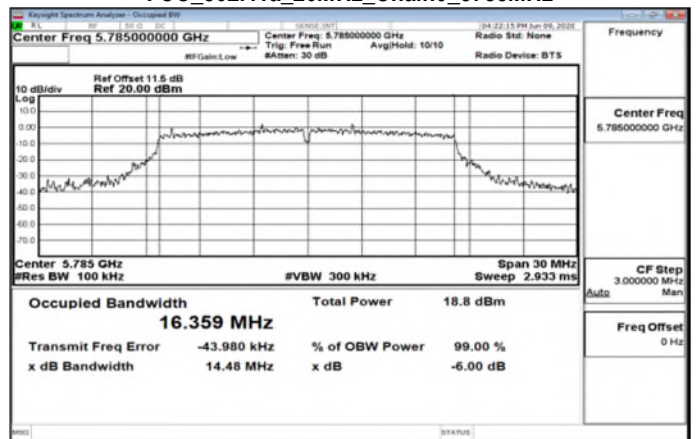
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FCC_802.11a_20MHz_Chain0_5700MHz



FCC_802.11a_20MHz_Chain0_5785MHz

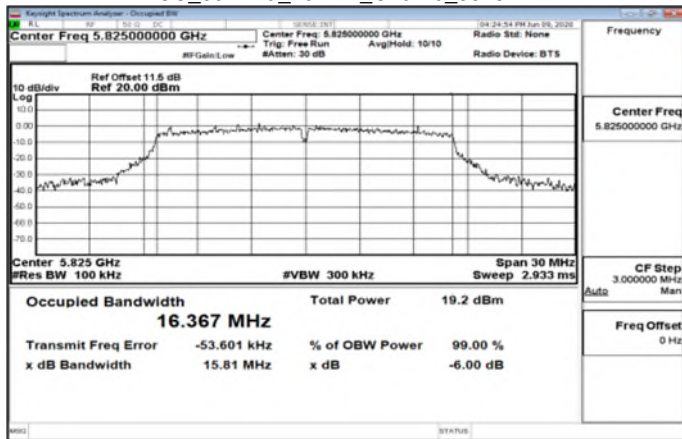


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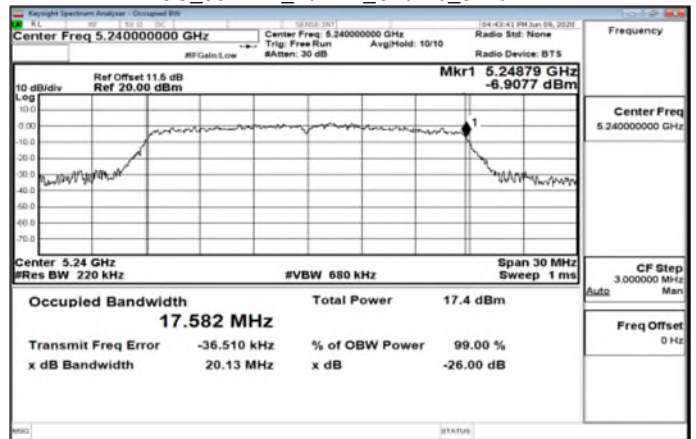
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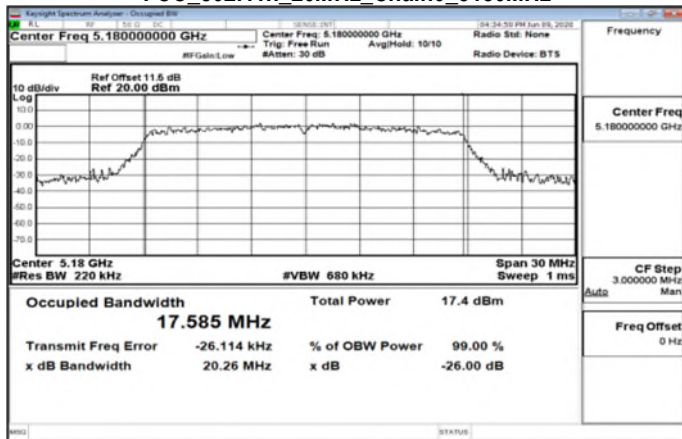
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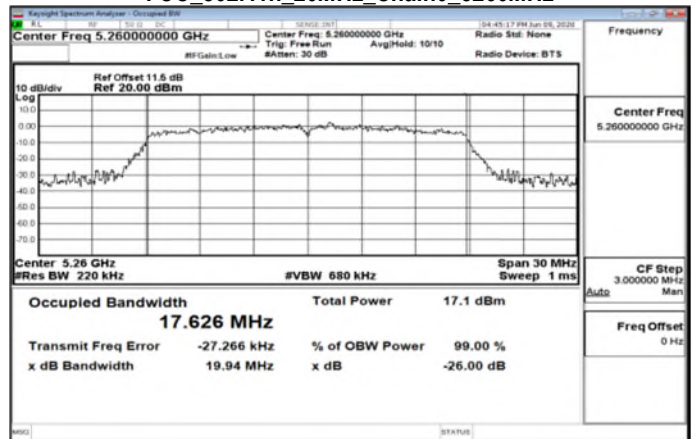
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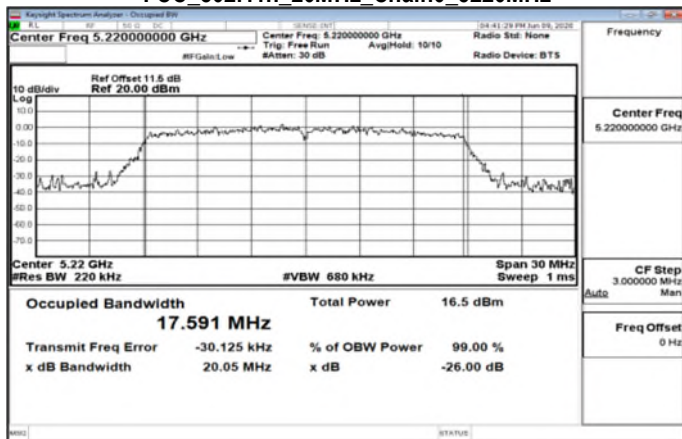
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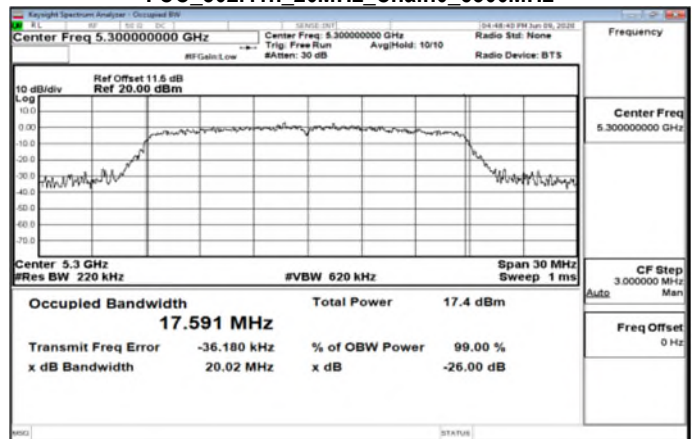
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FCC 802.11n 20MHz_Chain0_5300MHz

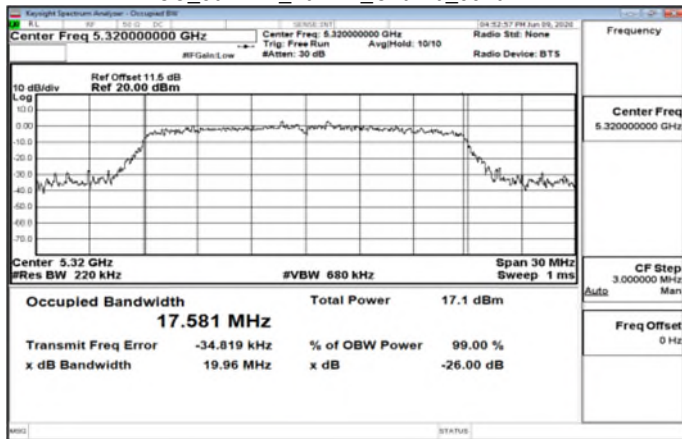


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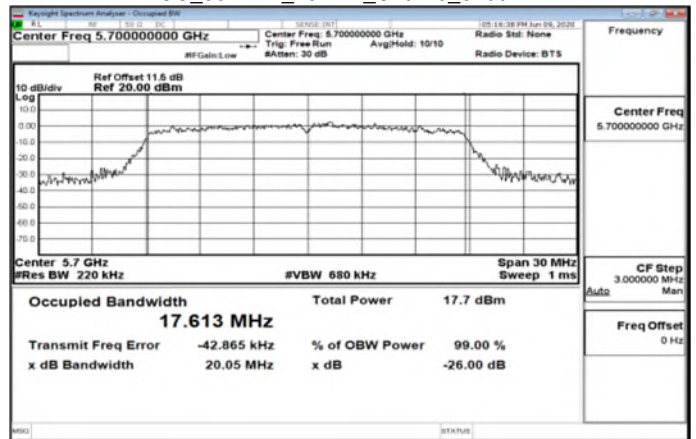
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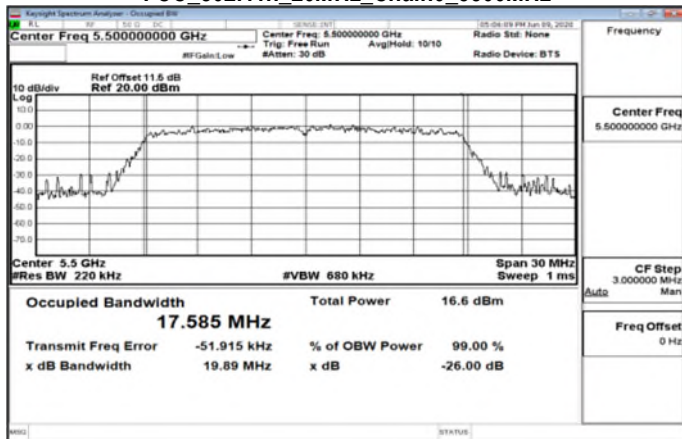
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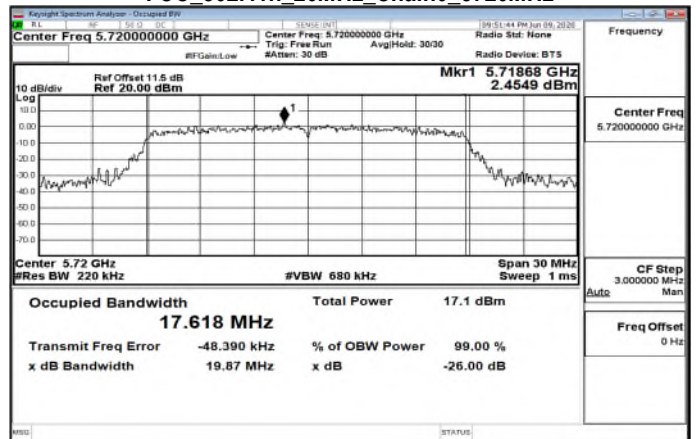
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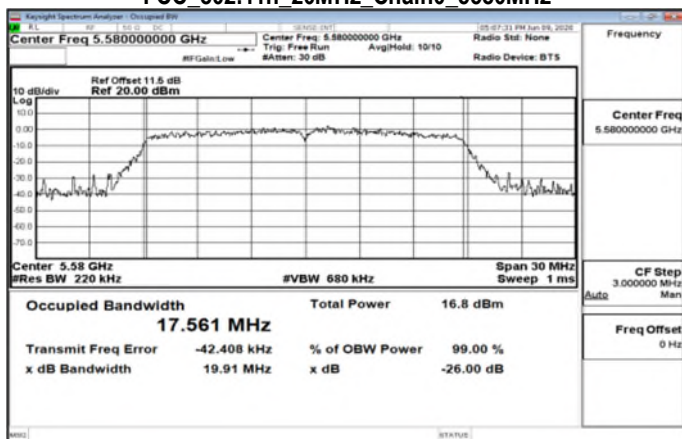
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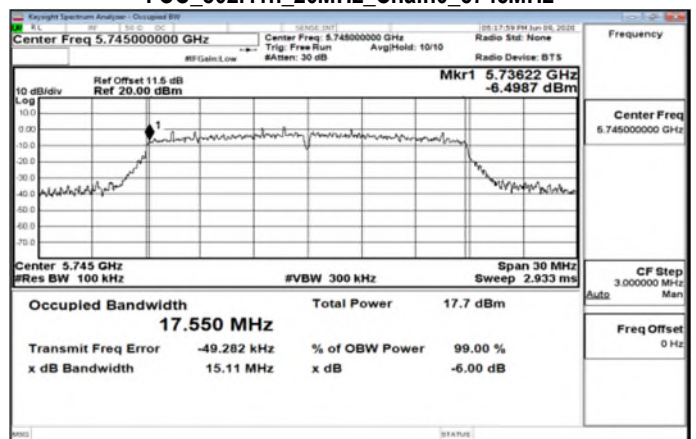
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FCC 802.11n 20MHz Chain0_5580MHz



FCC 802.11n 20MHz Chain0_5745MHz

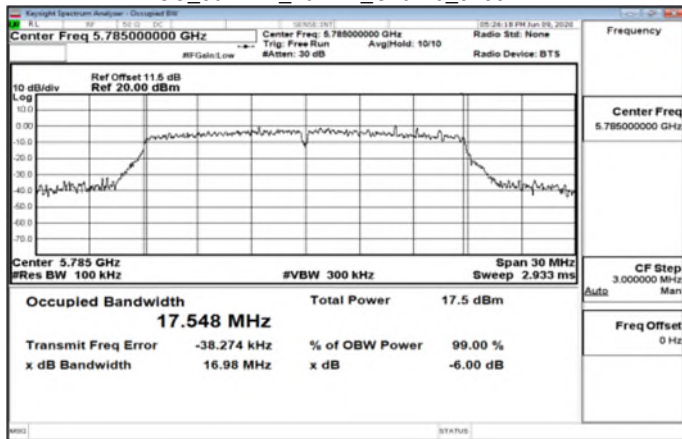


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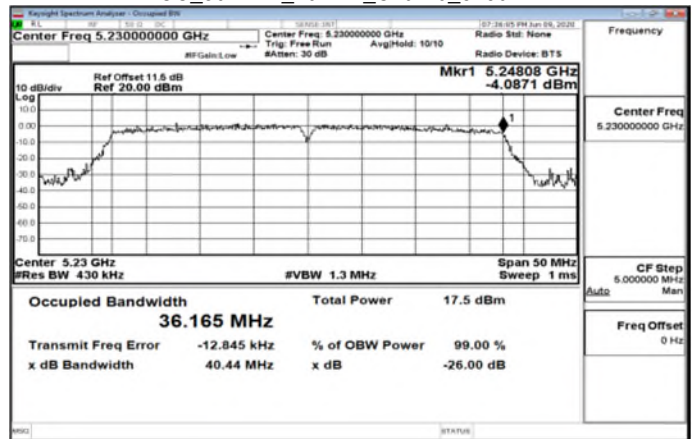
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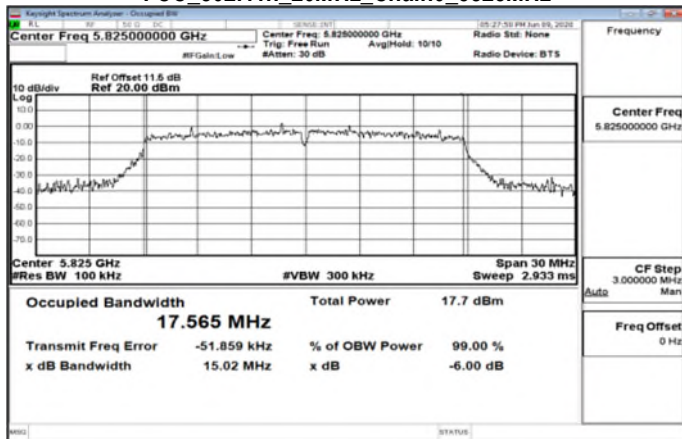
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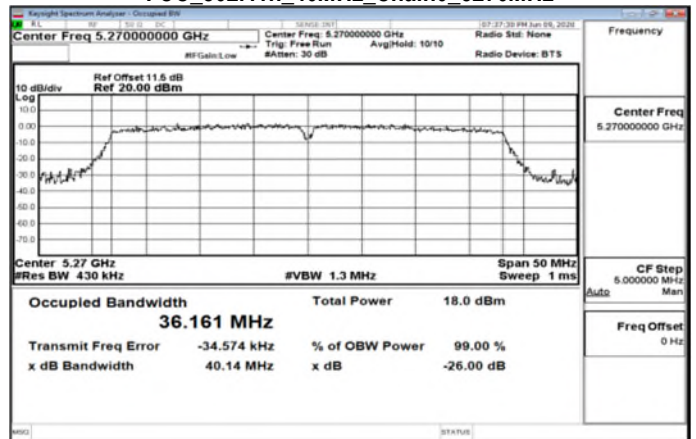
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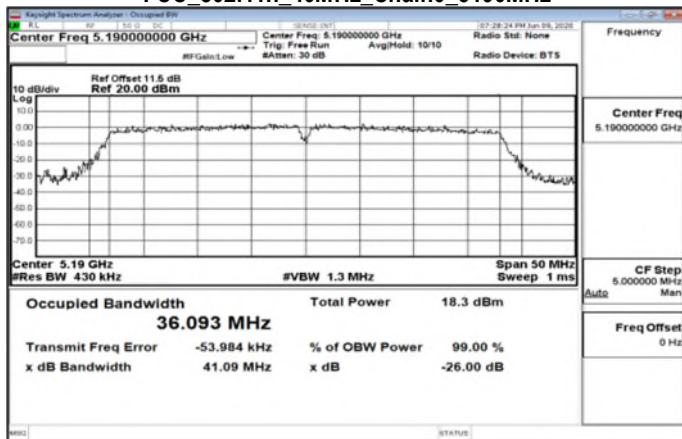
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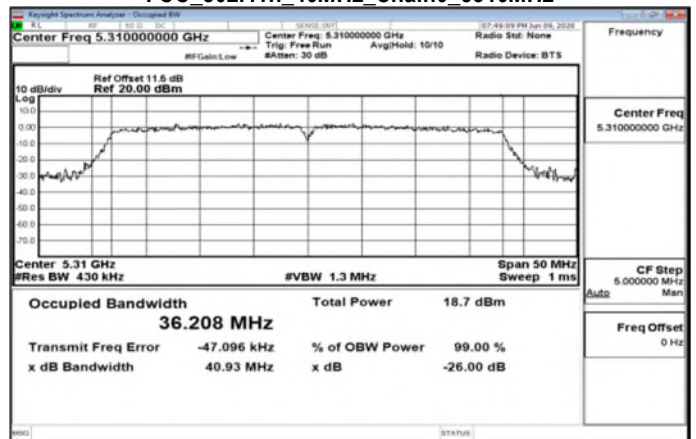
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FCC 802.11n 40MHz Chain0 5190MHz



FCC 802.11n 40MHz Chain0 5310MHz

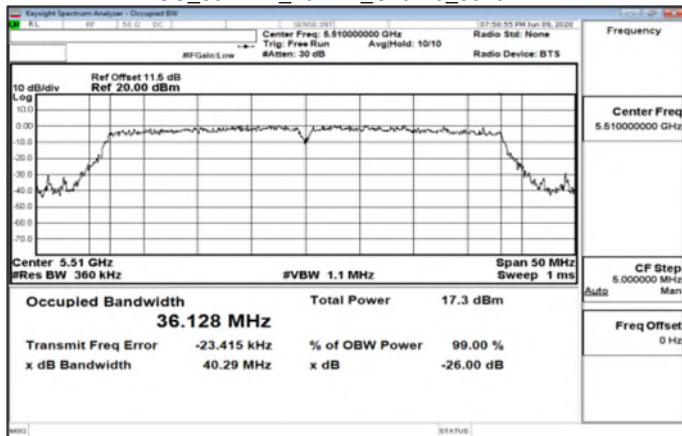


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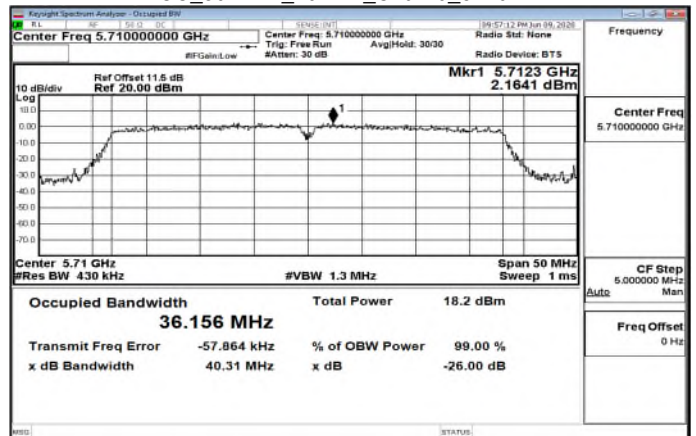
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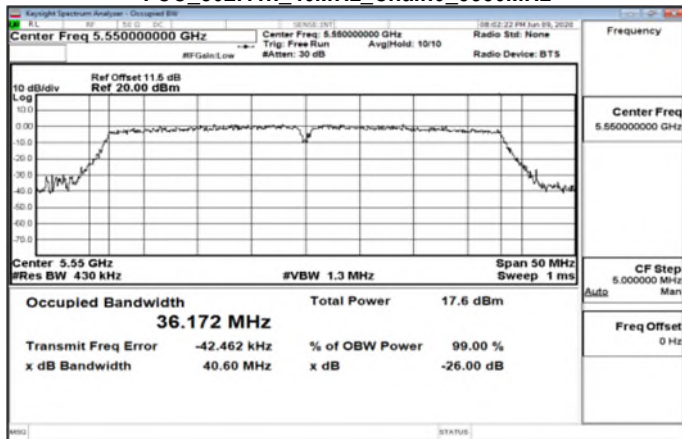
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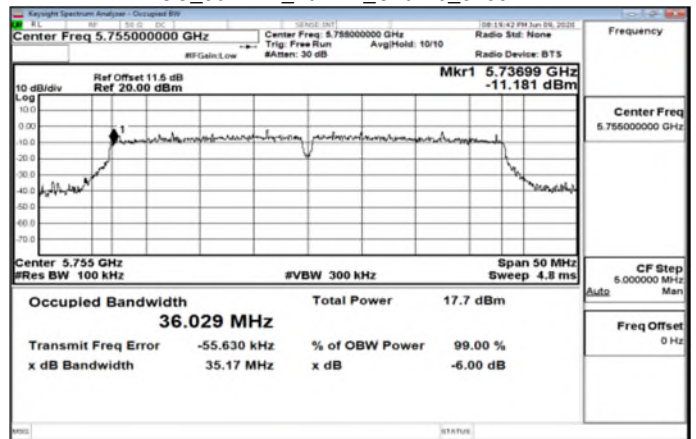
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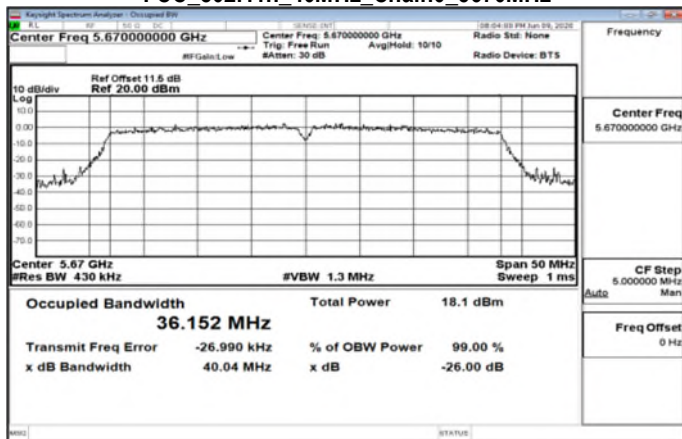
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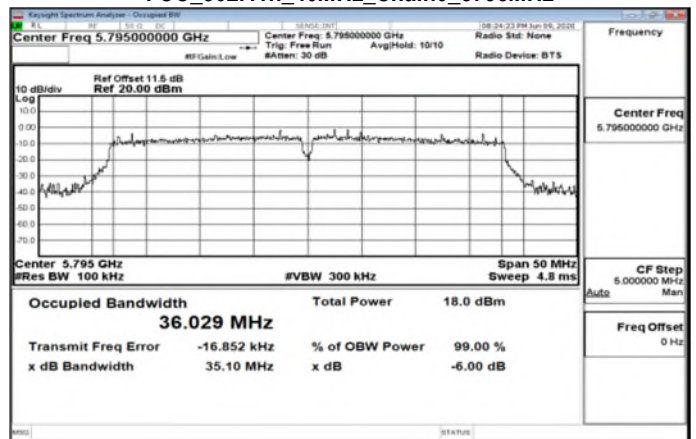
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FCC_802.11n_40MHz_Chain0_5670MHz



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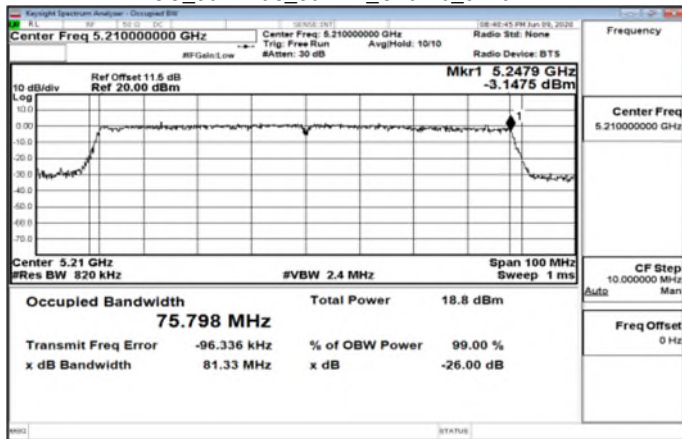


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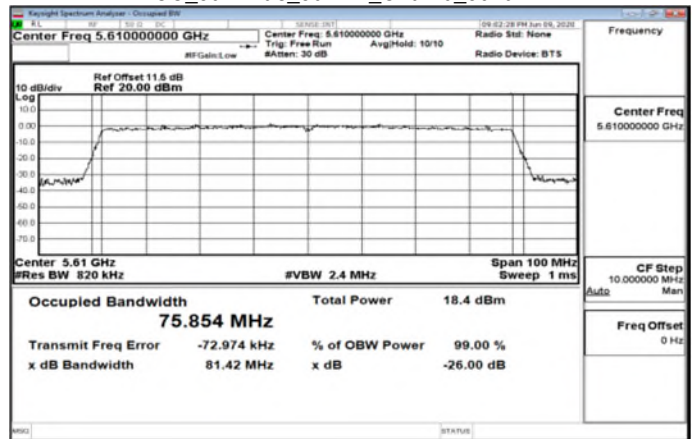
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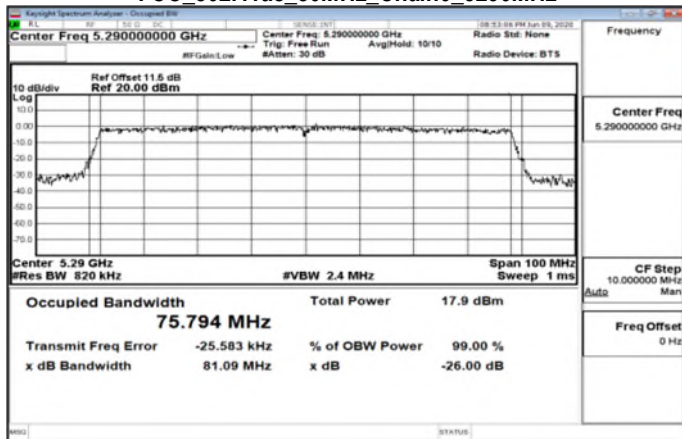
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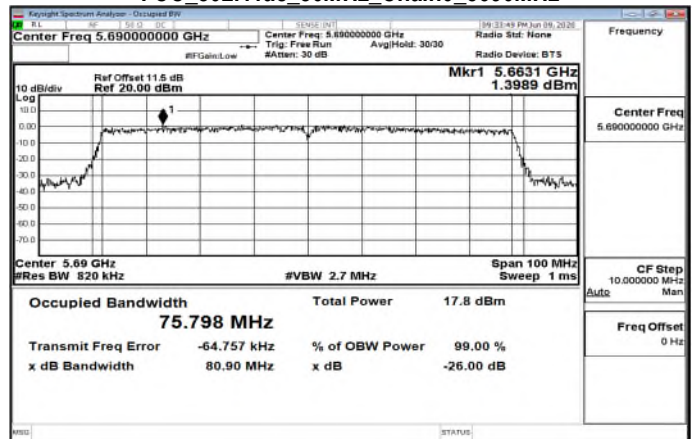
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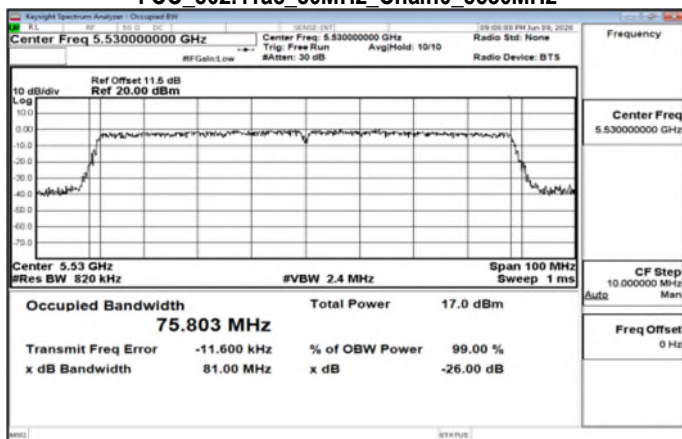
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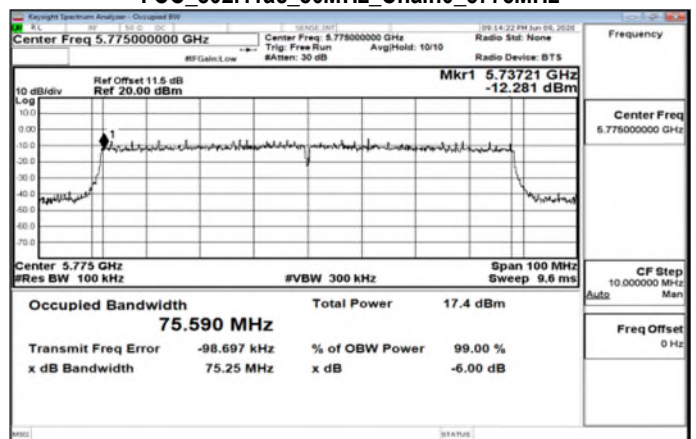
FCC 802.11ac_80MHz_Chain0_5690MHz



FCC 802.11ac_80MHz_Chain0_5530MHz



FCC 802.11ac_80MHz_Chain0_5775MHz



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8.5.3 99% BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.22	< 5250
5745	5736.82	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.79	< 5250
5745	5736.22	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.08	< 5250
5755	5736.99	> 5725

802.11ac_VHT80_Ch0

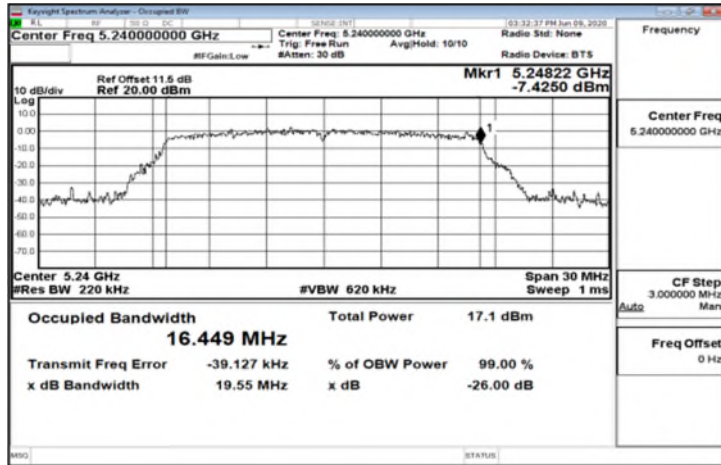
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.90	< 5250
5775	5737.21	> 5725

Please see next page for test plots.

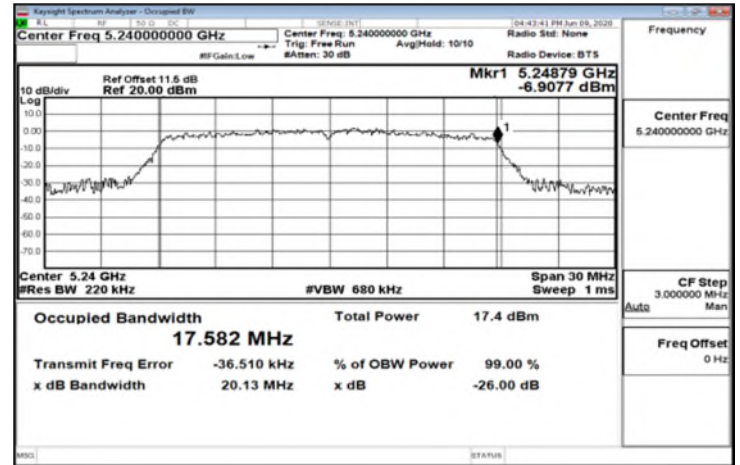
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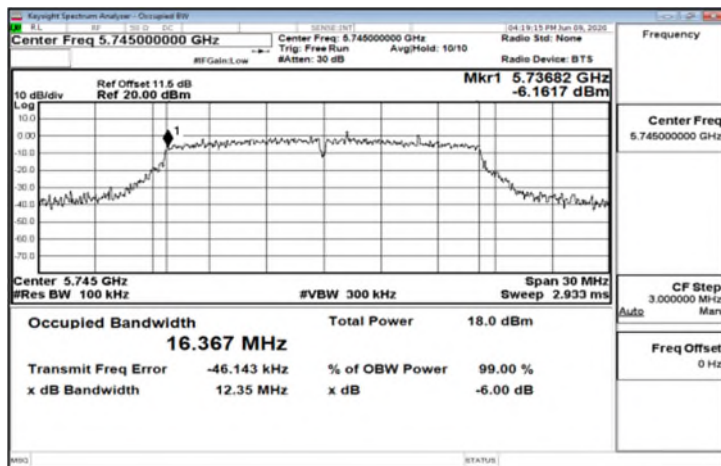
802.11a_5240MHz (Ch0)



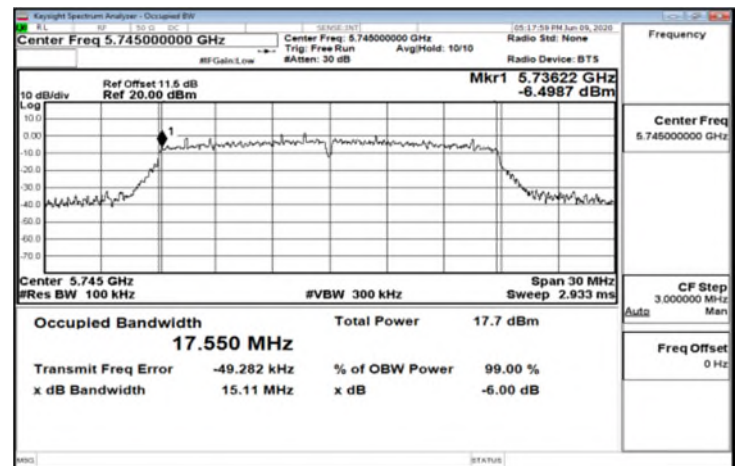
802.11n_20MHz_5240MHz (Ch0)



802.11a_5745MHz



802.11n_20MHz_5745MHz

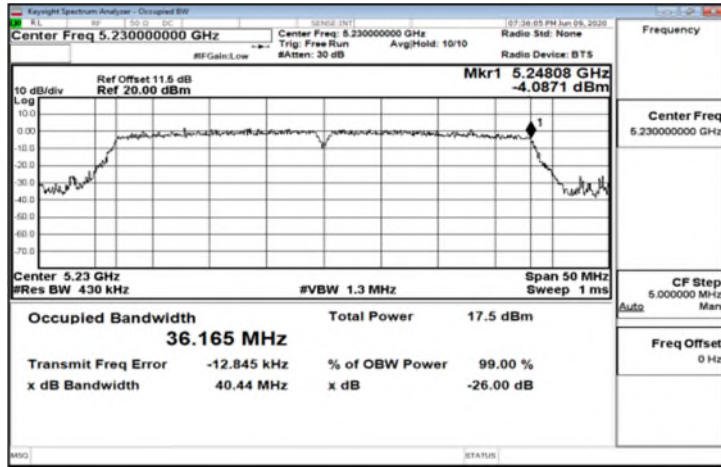


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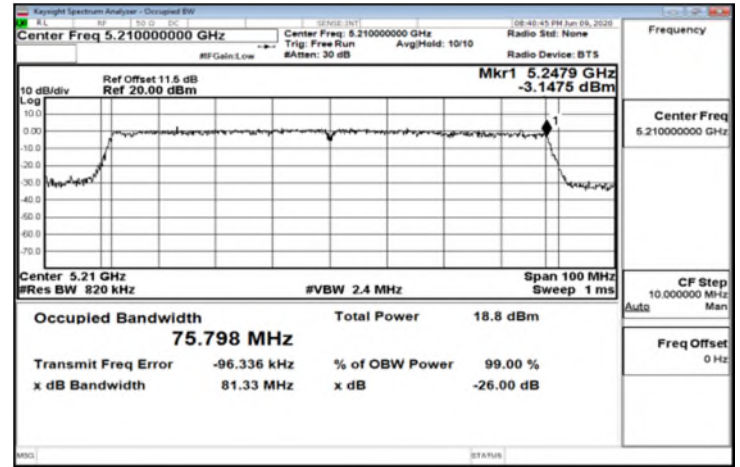
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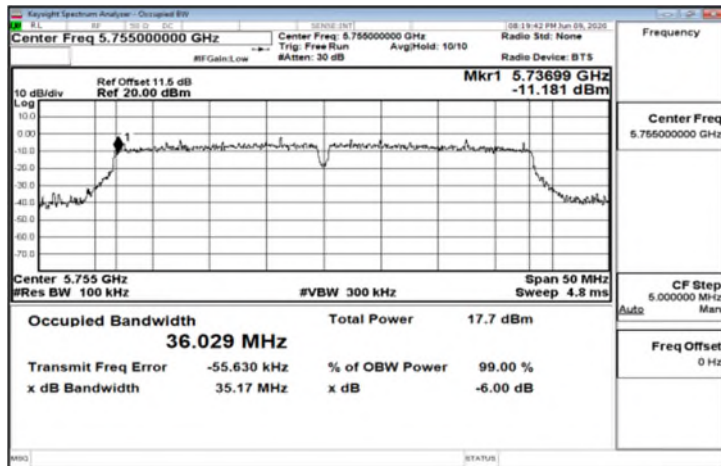
802.11n_40MHz_5230MHz (Ch0)



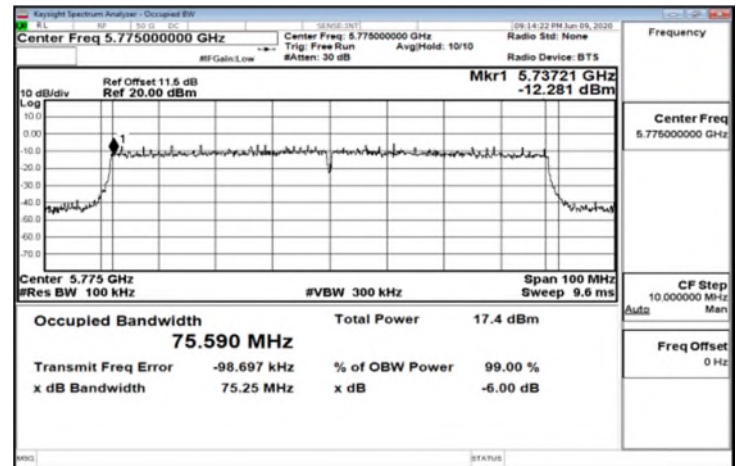
802.11ac_80MHz_5210MHz (Ch0)



802.11n_40MHz_5755MHz



802.11ac_80MHz_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

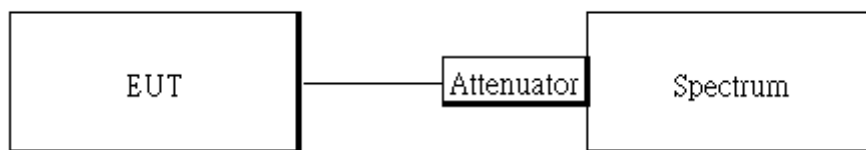
SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUM-BER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	08/05/2019	08/04/2020
Power Sensor	Anritsu	MA2411B	1315048	08/05/2019	08/04/2020
Power Sensor	Anritsu	MA2411B	1315049	08/05/2019	08/04/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

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9.4 Test Set-up



Note:

Cable Loss= 11.50dB

9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.76	18.895	30	PASS
44	5220	6	12.15	16.419	30	PASS
48	5240	6	11.95	15.680	30	PASS
52	5260	6	12.41	17.432	23.98 or $11+10\log(B) = 23.88$	PASS
60	5300	6	12.95	19.740	23.98 or $11+10\log(B) = 23.96$	PASS
64	5320	6	12.99	19.923	23.98 or $11+10\log(B) = 23.93$	PASS
100	5500	6	12.03	15.972	23.98 or $11+10\log(B) = 23.94$	PASS
116	5580	6	12.19	16.571	23.98 or $11+10\log(B) = 23.90$	PASS
140	5700	6	12.81	19.114	23.98 or $11+10\log(B) = 23.95$	PASS
144	5720(U-NII 2C)	6	11.58	14.38	23.98 or $11+10\log(B) = 24.03$	PASS
144	5720 (U-NII 3)	6	6.84	4.83	30	PASS
149	5745	6	11.99	15.825	30	PASS
157	5785	6	12.08	16.157	30	PASS
165	5825	6	12.78	18.982	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.90	15.504	30	PASS
44	5220	MCS0	11.39	13.786	30	PASS
48	5240	MCS0	11.36	13.692	30	PASS
52	5260	MCS0	11.54	14.271	23.98 or $11+10\log(B) = 24.00$	PASS
60	5300	MCS0	11.95	15.684	23.98 or $11+10\log(B) = 24.01$	PASS
64	5320	MCS0	11.97	15.756	23.98 or $11+10\log(B) = 24.00$	PASS
100	5500	MCS0	11.35	13.660	23.98 or $11+10\log(B) = 23.99$	PASS
116	5580	MCS0	11.41	13.850	23.98 or $11+10\log(B) = 23.99$	PASS
140	5700	MCS0	11.95	15.684	23.98 or $11+10\log(B) = 24.02$	PASS
144	5720(U-NII 2C)	MCS0	10.75	11.90	23.98 or $11+10\log(B) = 23.98$	PASS
144	5720 (U-NII 3)	MCS0	5.95	3.93	30	PASS
149	5745	MCS0	11.58	14.403	30	PASS
157	5785	MCS0	11.53	14.238	30	PASS
165	5825	MCS0	11.54	14.271	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.98	15.792	30	PASS
46	5230	MCS0	11.42	13.881	30	PASS
54	5270	MCS0	11.96	15.719	23.98 or $11+10\log(B) = 27.04$	PASS
62	5310	MCS0	12.15	16.422	23.98 or $11+10\log(B) = 27.12$	PASS
102	5510	MCS0	11.94	15.647	23.98 or $11+10\log(B) = 27.05$	PASS
110	5550	MCS0	11.31	13.534	23.98 or $11+10\log(B) = 27.09$	PASS
134	5670	MCS0	11.97	15.755	23.98 or $11+10\log(B) = 27.02$	PASS
142	5710(U-NII 2C)	MCS0	11.58	14.39	23.98 or $11+10\log(B) = 27.05$	PASS
142	5710 (U-NII 3)	MCS0	3.24	2.11	30	PASS
151	5755	MCS0	12.00	15.865	30	PASS
159	5795	MCS0	11.98	15.792	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	10.33	10.795	30		PASS
58	5290	MCS0	10.56	11.382	23.98	or $11+10\log(B) = 30.09$	PASS
106	5530	MCS0	10.31	10.745	23.98	or $11+10\log(B) = 30.08$	PASS
122	5610	MCS0	10.51	11.252	23.98	or $11+10\log(B) = 30.11$	PASS
138	5690(U-NII 2C)	MCS0	10.24	10.57	23.98	or $11+10\log(B) = 30.08$	PASS
138	5690 (U-NII 3)	MCS0	-1.17	0.76	30		PASS
155	5775	MCS0	10.37	10.895	30		PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

10.2 Measurement Procedure

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

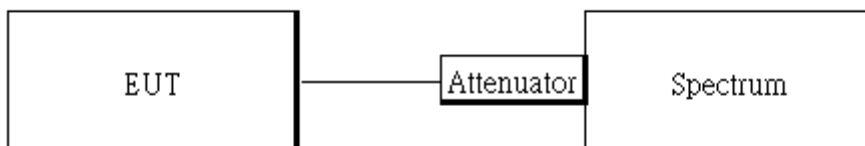
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10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTER-NACK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

10.4 Test Set-up



Note:

Cable Loss= 11.50dB

10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	3.68	0.30	3.98	17.00	-13.02
5220.00	3.01	0.30	3.31	17.00	-13.69
5240.00	2.69	0.30	2.99	17.00	-14.01
5260.00	3.30	0.30	3.60	11.00	-7.40
5300.00	3.09	0.30	3.39	11.00	-7.61
5320.00	3.41	0.30	3.71	11.00	-7.29
5500.00	1.98	0.30	2.28	11.00	-8.72
5580.00	2.58	0.30	2.88	11.00	-8.12
5700.00	3.90	0.30	4.20	11.00	-6.80
5720 (U-NII 2C)	3.72	0.30	4.02	11.00	-6.98
5720 (U-NII 3)	-1.36	0.30	-1.06	30.00	-31.06
5745.00	0.21	0.30	0.51	30.00	-29.49
5785.00	-0.02	0.30	0.28	30.00	-29.72
5825.00	0.62	0.30	0.92	30.00	-29.08

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POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	2.03	0.32	2.35	17	-14.65
5220	1.89	0.32	2.21	17	-14.79
5240	1.56	0.32	1.88	17	-15.12
5260	2.38	0.32	2.70	11	-8.30
5300	1.97	0.32	2.29	11	-8.71
5320	2.35	0.32	2.67	11	-8.33
5500	1.30	0.32	1.62	11	-9.38
5580	1.79	0.32	2.11	11	-8.89
5700	2.75	0.32	3.07	11	-7.93
5720 (U-NII 2C)	2.75	0.32	3.07	11	-7.93
5720 (U-NII 3)	-2.62	0.32	-2.30	30	-32.30
5745	-1.21	0.32	-0.89	30	-30.89
5785	-0.43	0.32	-0.11	30	-30.11
5825	-0.43	0.32	-0.11	30	-30.11

POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-1.09	0.60	-0.49	17	-17.49
5230	-1.82	0.60	-1.22	17	-18.22
5270	-1.3	0.60	-0.70	11	-11.70
5310	-0.58	0.60	0.02	11	-10.98
5510	-1.73	0.60	-1.13	11	-12.13
5550	-1.75	0.60	-1.15	11	-12.15
5670	-0.91	0.60	-0.31	11	-11.31
5710 (U-NII 2C)	-1.07	0.60	-0.47	11	-11.47
5710 (U-NII 3)	-6.06	0.60	-5.46	30	-35.46
5755	-4.26	0.60	-3.66	30	-33.66
5795	-4.52	0.60	-3.92	30	-33.92

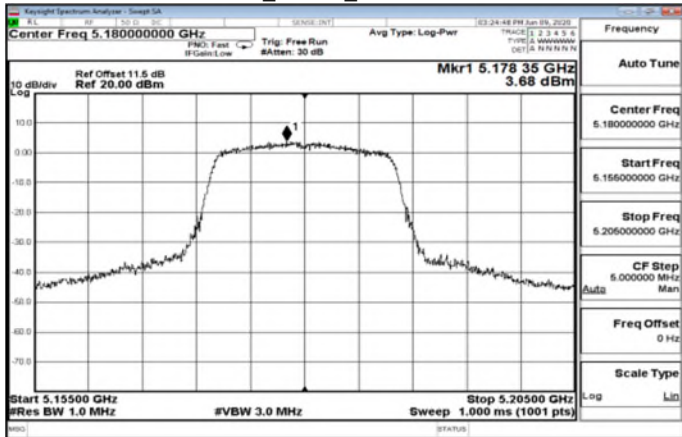
POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-6.59	0.74	-5.85	17	-22.85
5290	-6.59	0.74	-5.85	11	-16.85
5530	-7.06	0.74	-6.32	11	-17.32
5610	-7.09	0.74	-6.35	11	-17.35
5690 (U-NII 2C)	-6.15	0.74	-5.41	11	-16.41
5690 (U-NII 3)	-10.58	0.74	-9.84	30	-39.84
5775	-9.55	0.74	-8.81	30	-38.81

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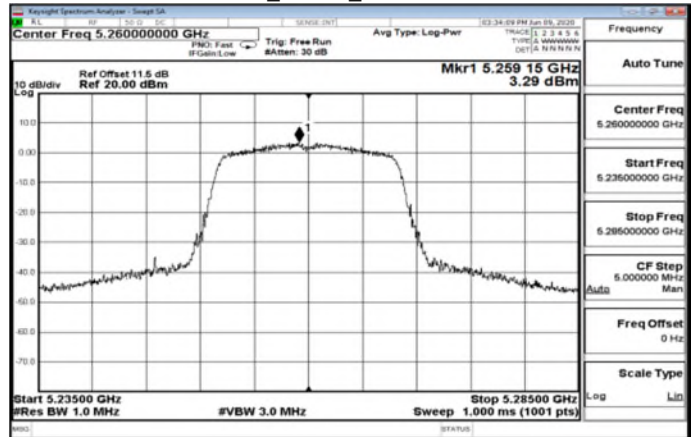
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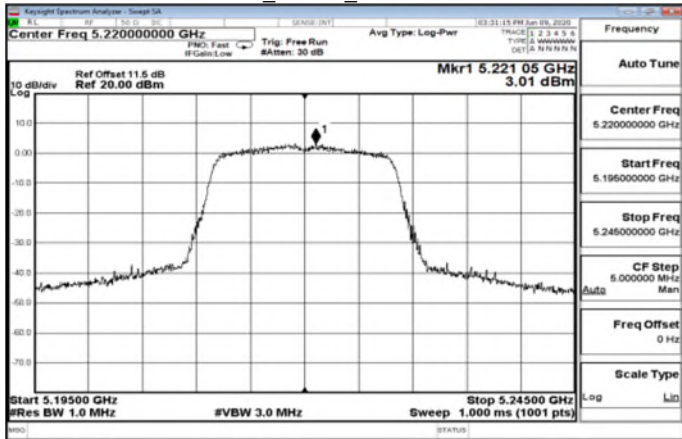
802.11a_20MHz_5180MHz-5180



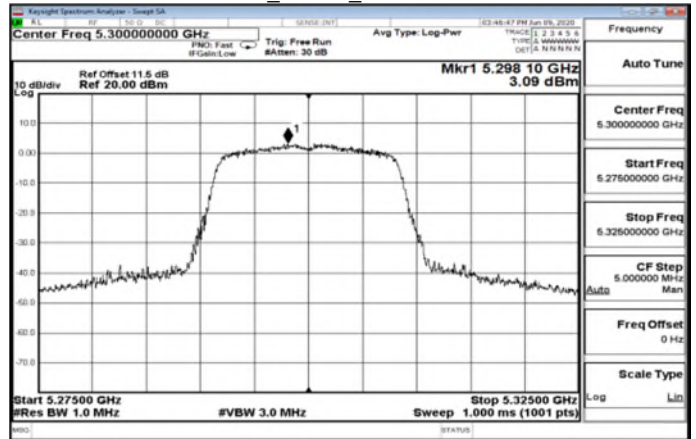
802.11a_20MHz_5260MHz-5260



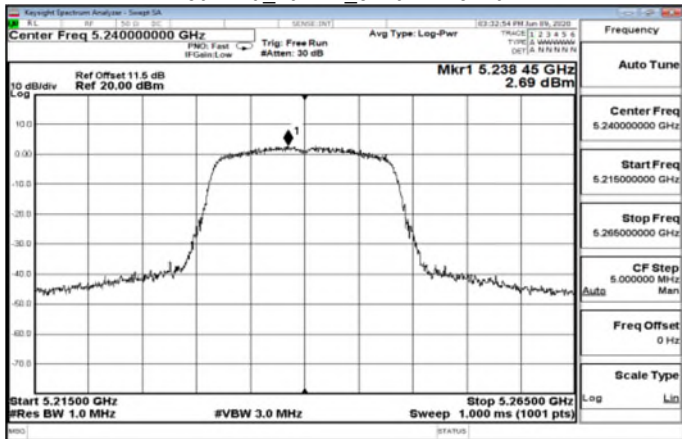
802.11a_20MHz_5220MHz-5220



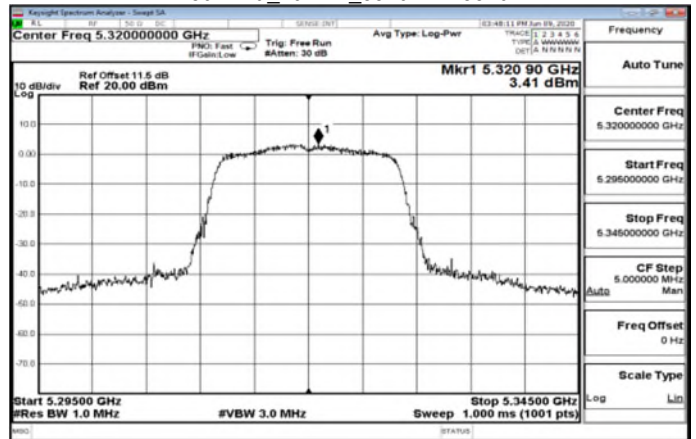
802.11a_20MHz_5300MHz-5300



802.11a_20MHz_5240MHz-5240



802.11a_20MHz_5320MHz-5320

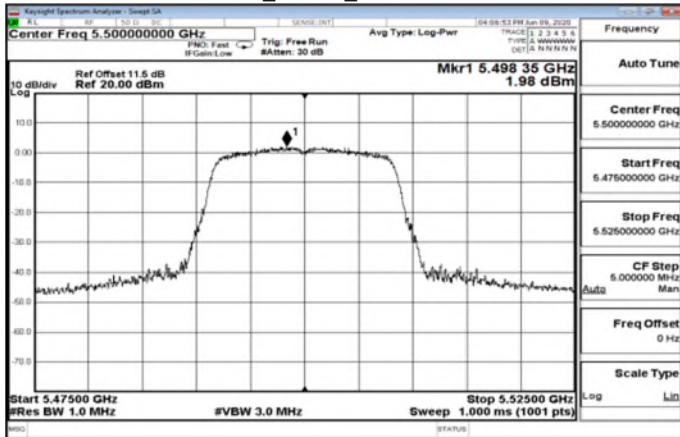


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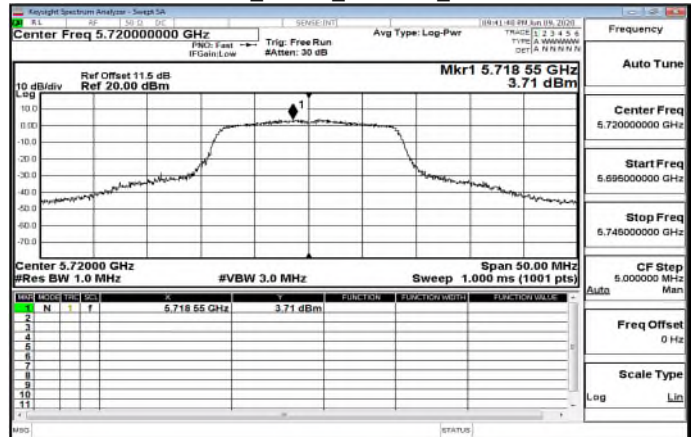
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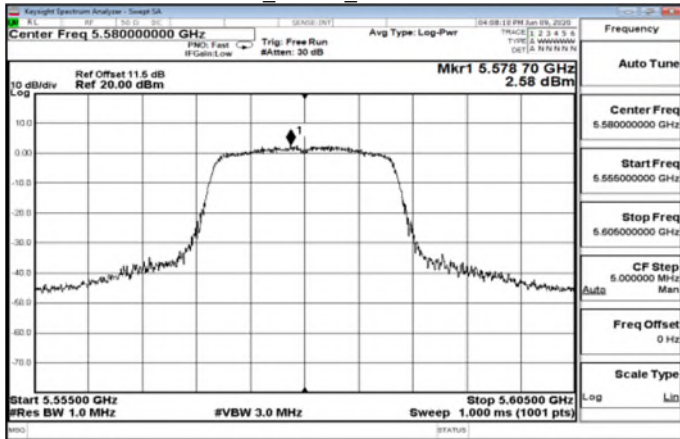
802.11a_20MHz_5500MHz-5500



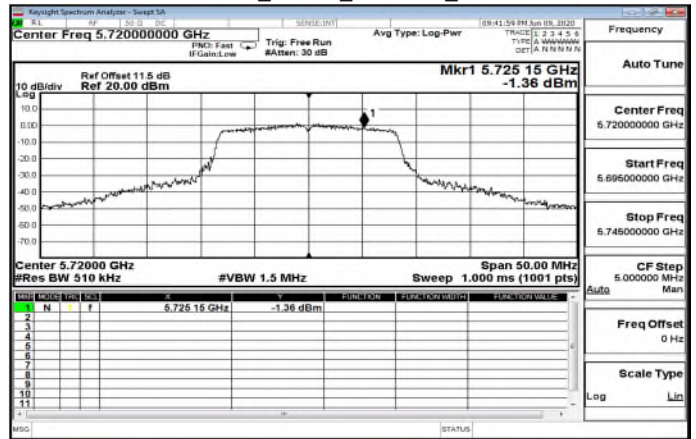
802.11a_20MHz_5720MHz_UNII 2C



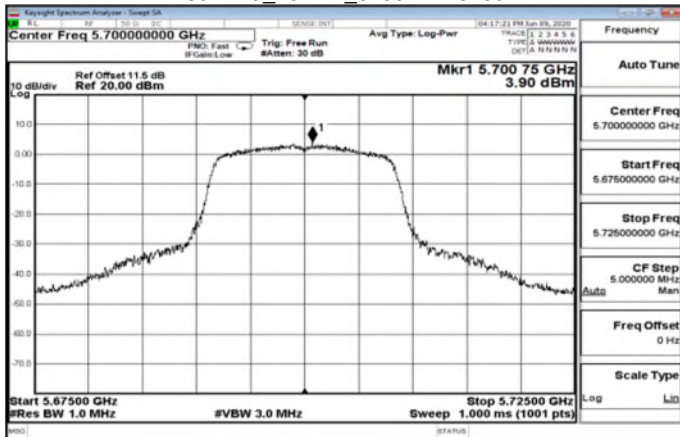
802.11a_20MHz_5580MHz-5580



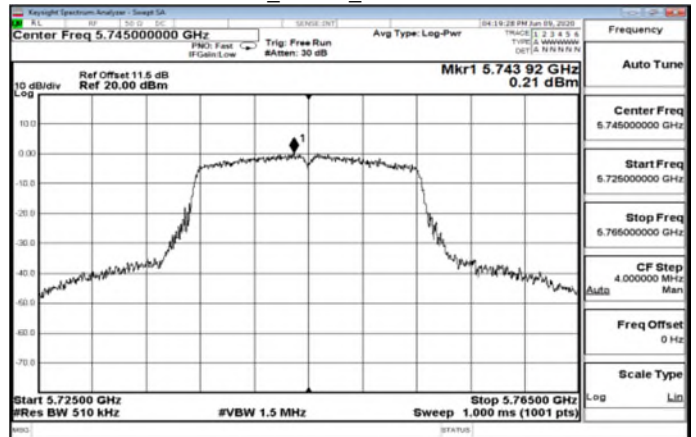
802.11a_20MHz_5720MHz_UNII 3



802.11a_20MHz_5700MHz-5700



802.11a_20MHz_5745MHz-5745

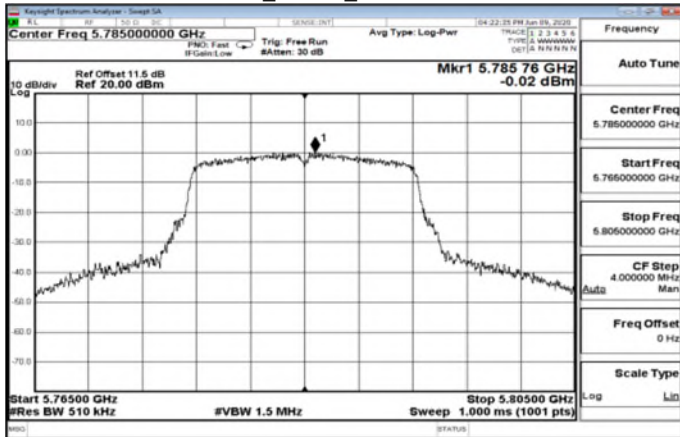


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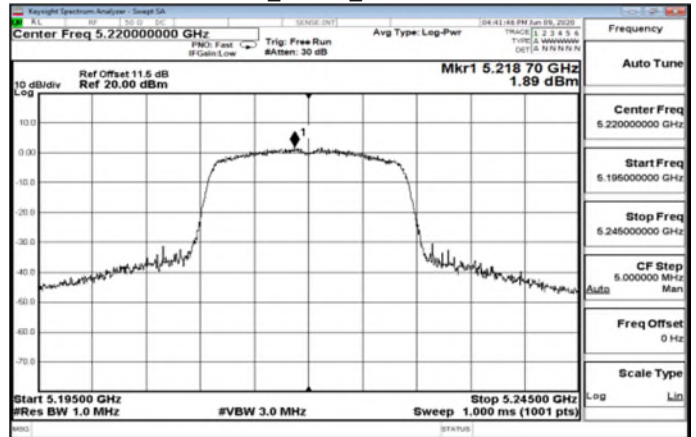
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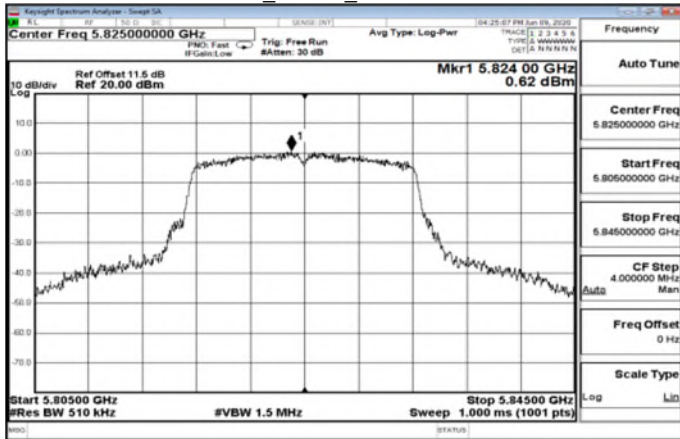
802.11a_20MHz_5785MHz-5785



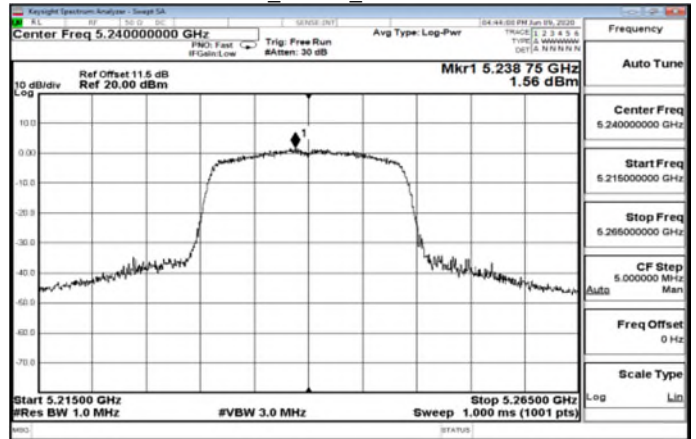
802.11n_20MHz_5220MHz-5220



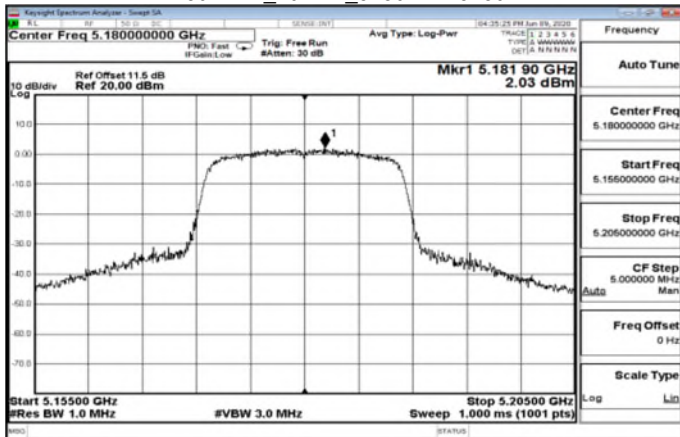
802.11a_20MHz_5825MHz-5825



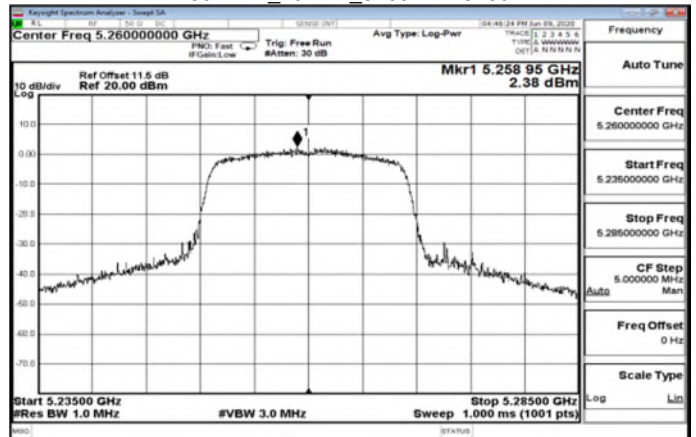
802.11n_20MHz_5240MHz-5240



802.11n_20MHz_5180MHz-5180



802.11n_20MHz_5260MHz-5260

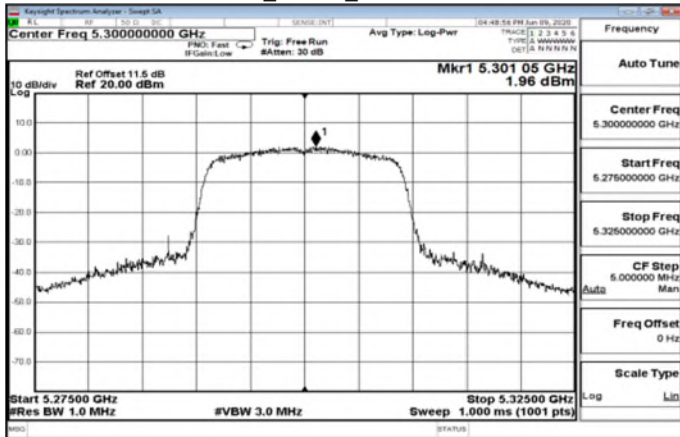


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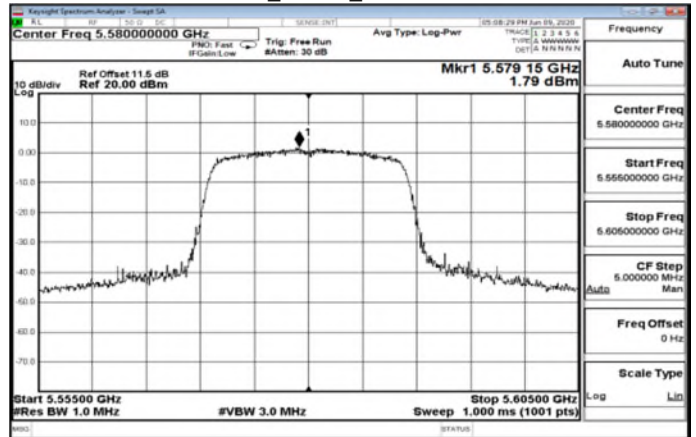
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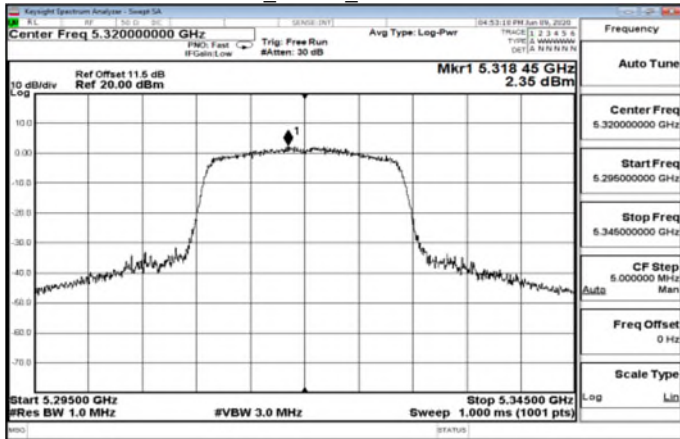
802.11n_20MHz_5300MHz-5300



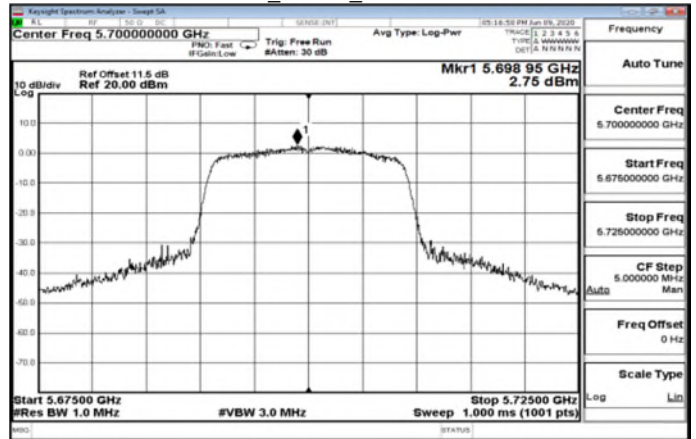
802.11n_20MHz_5580MHz-5580



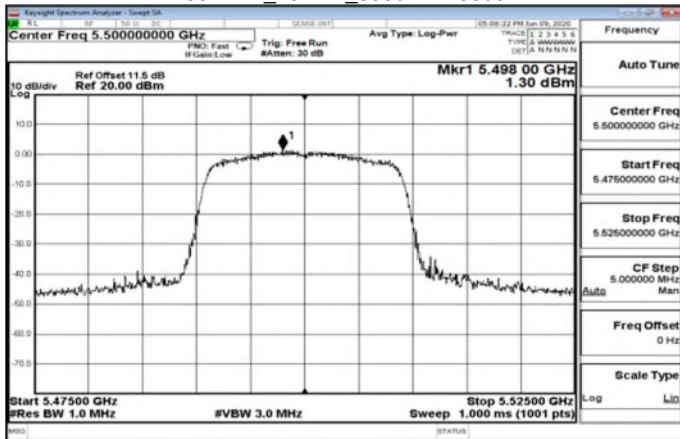
802.11n_20MHz_5320MHz-5320



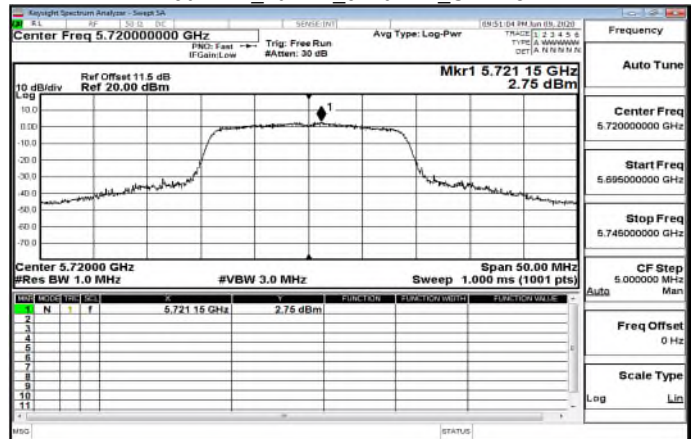
802.11n_20MHz_5700MHz-5700



802.11n_20MHz_5500MHz-5500



802.11n_20MHz_5720MHz_UNII 2C

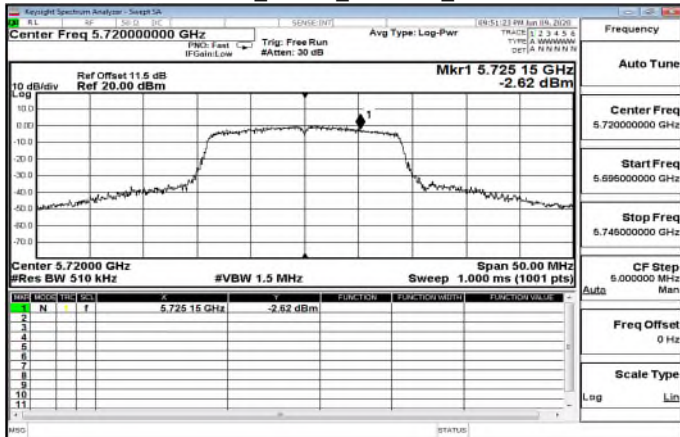


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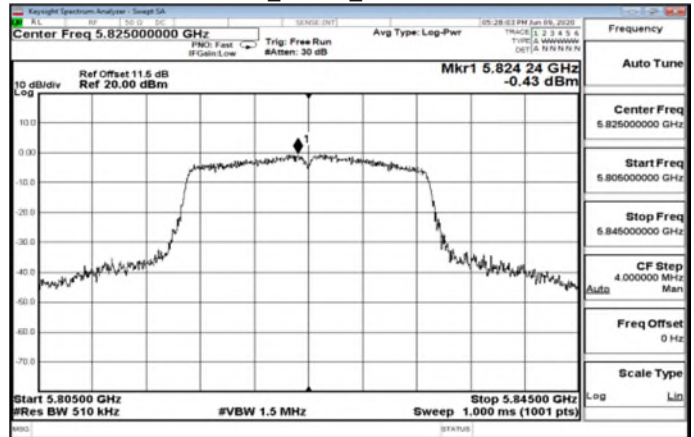
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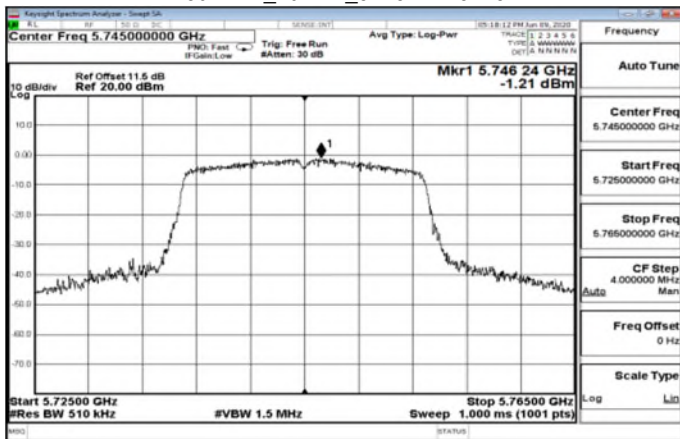
802.11n 20MHz_5720MHz_UNII 3



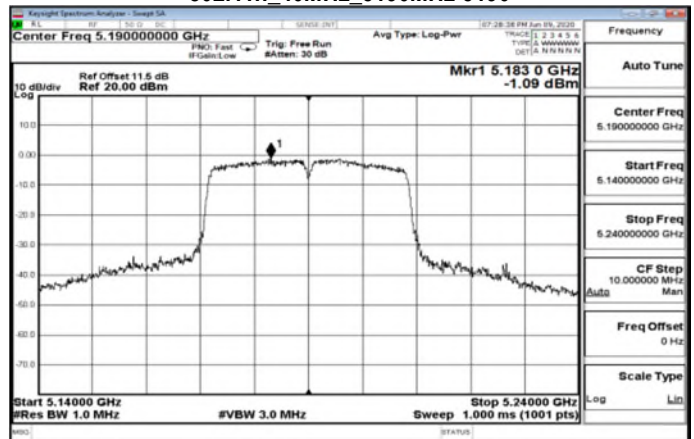
802.11n 20MHz_5825MHz-5825



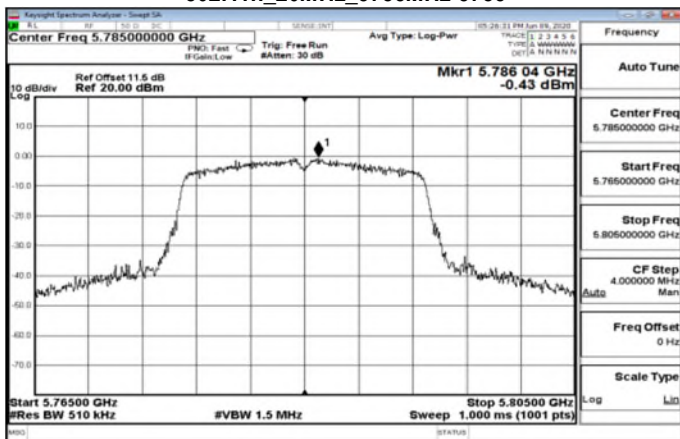
802.11n 20MHz_5745MHz-5745



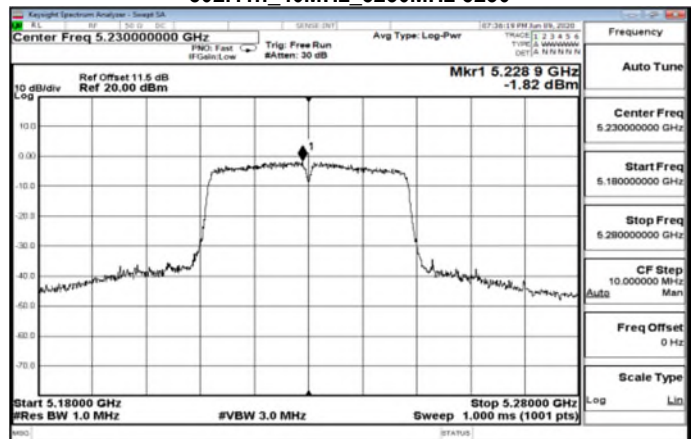
802.11n 40MHz_5190MHz-5190



802.11n 20MHz_5785MHz-5785



802.11n 40MHz_5230MHz-5230

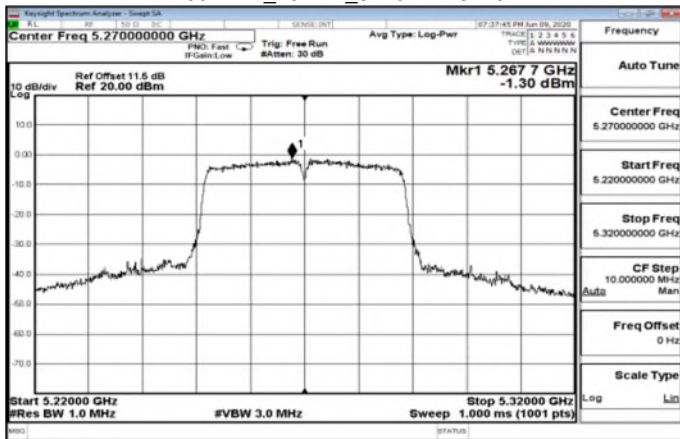


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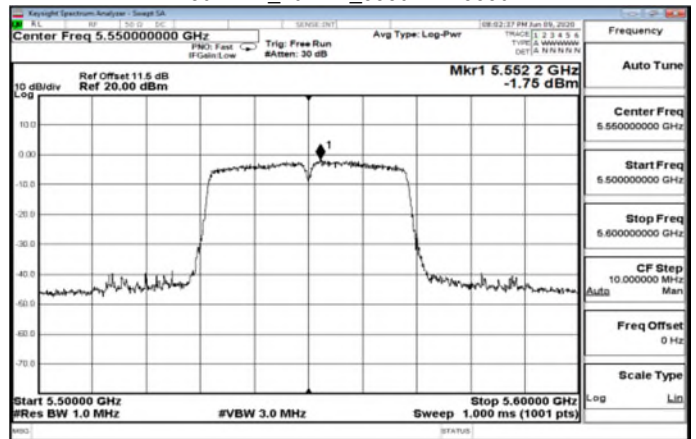
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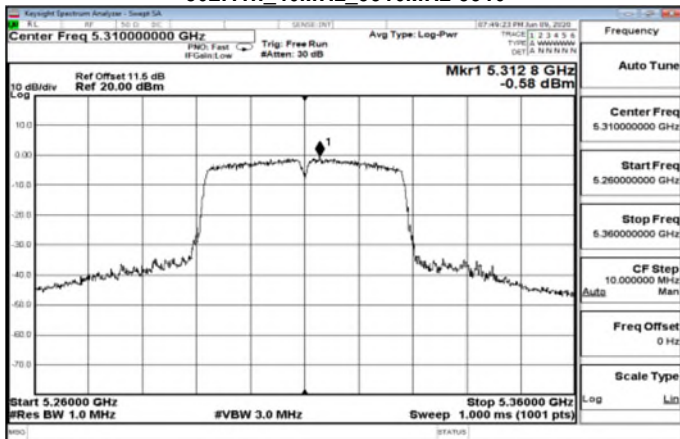
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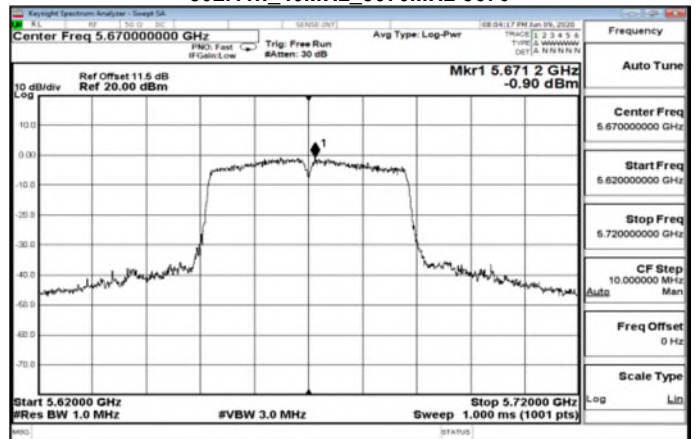
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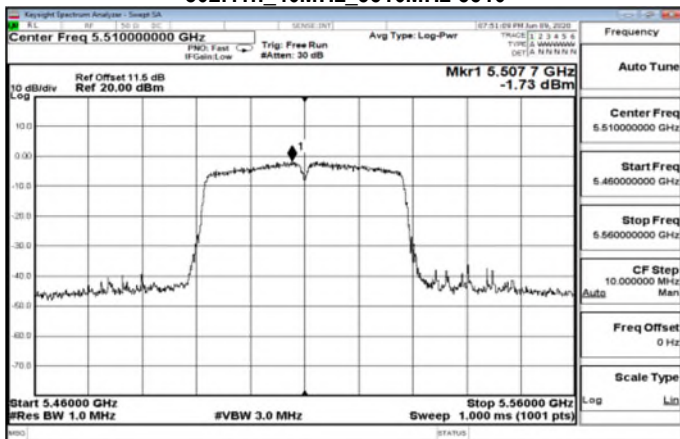
802.11n_40MHz_5310MHz-5310



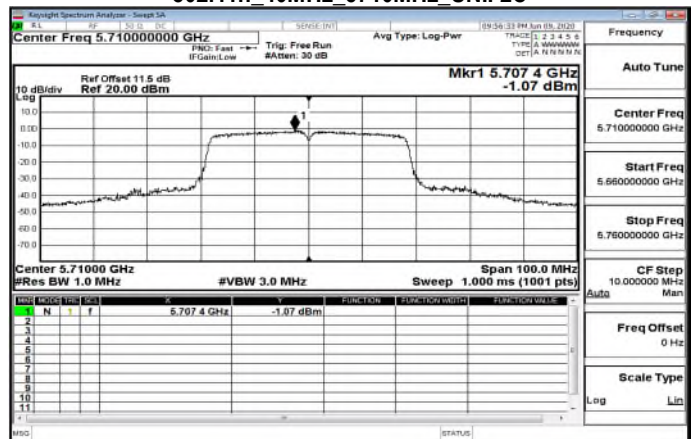
802.11n_40MHz_5670MHz-5670



802.11n_40MHz_5510MHz-5510



802.11n_40MHz_5710MHz UNII 2C

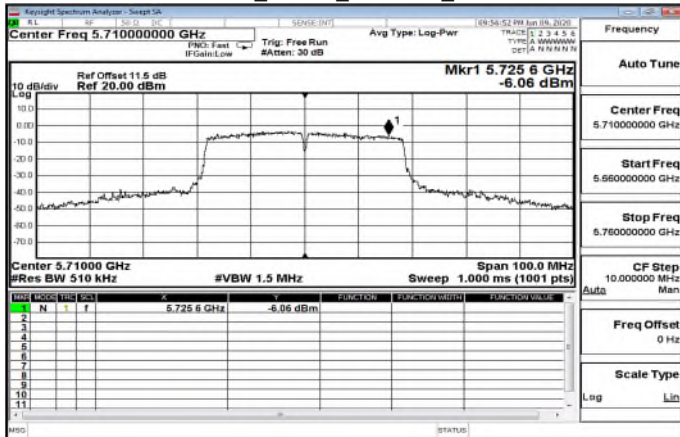


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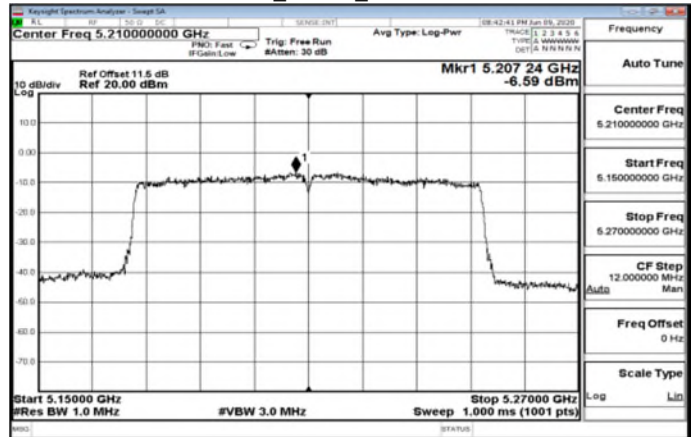
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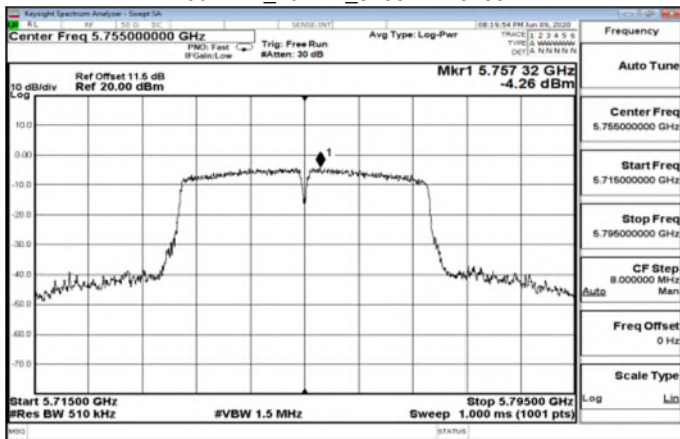
802.11n_40MHz_5710MHz_UNII 3



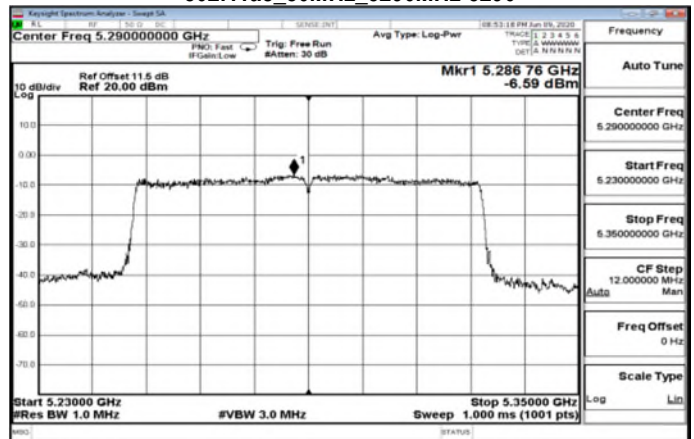
802.11ac_80MHz_5210MHz-5210



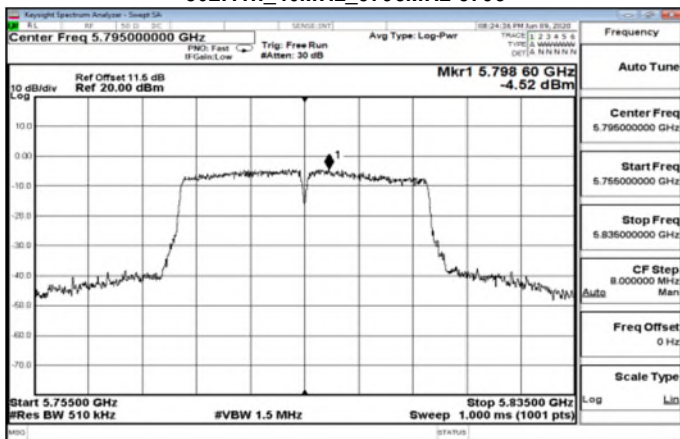
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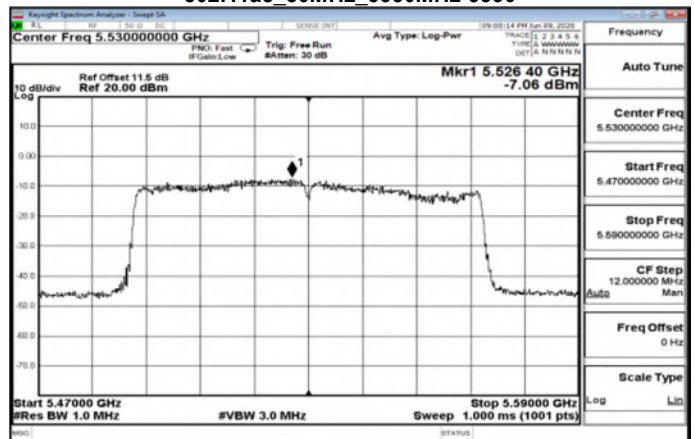
802.11ac_80MHz_5290MHz-5290



802.11n_40MHz_5795MHz-5795



802.11ac_80MHz_5530MHz-5530

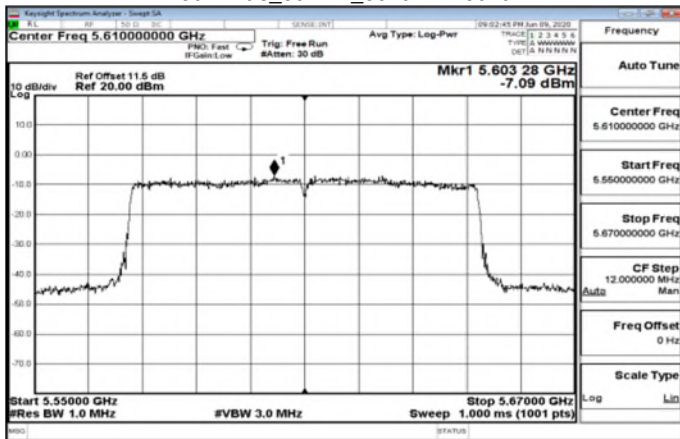


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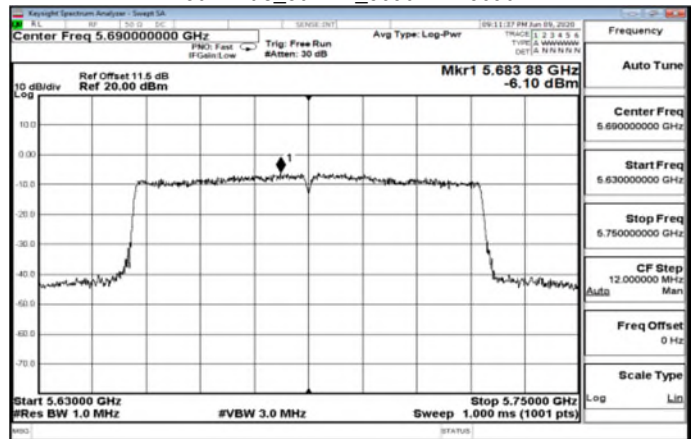
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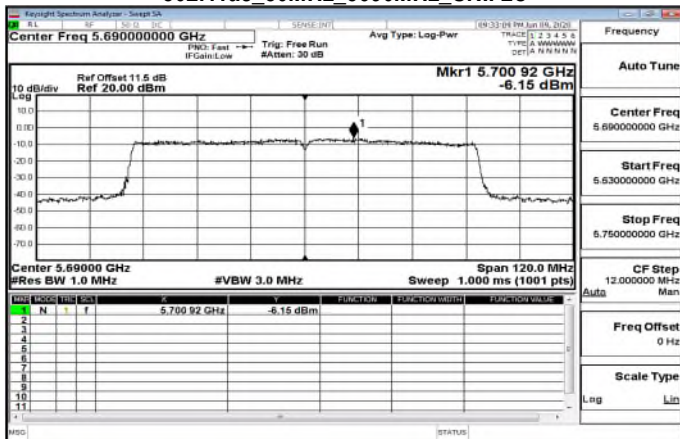
802.11ac_80MHz_5610MHz-5610



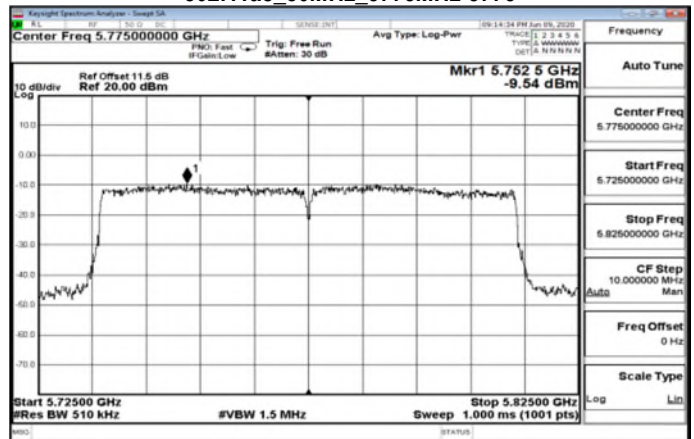
802.11ac_80MHz_5690MHz-5690



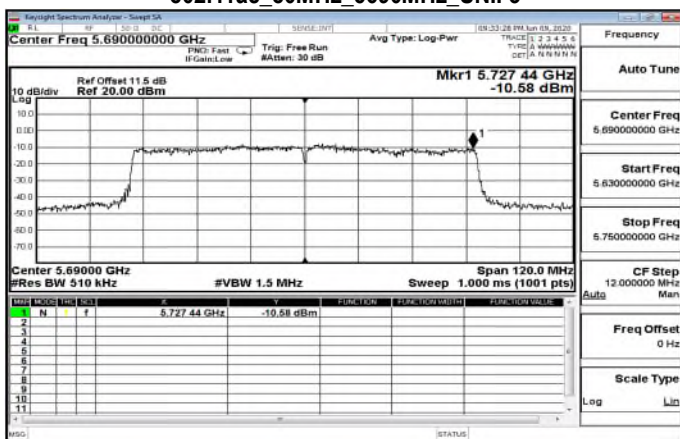
802.11ac_80MHz_5690MHz_UNII 2C



802.11ac_80MHz_5775MHz-5775



802.11ac_80MHz_5690MHz_UNII 3



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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 (μV/m)

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11.2 Measurement Equipment Used

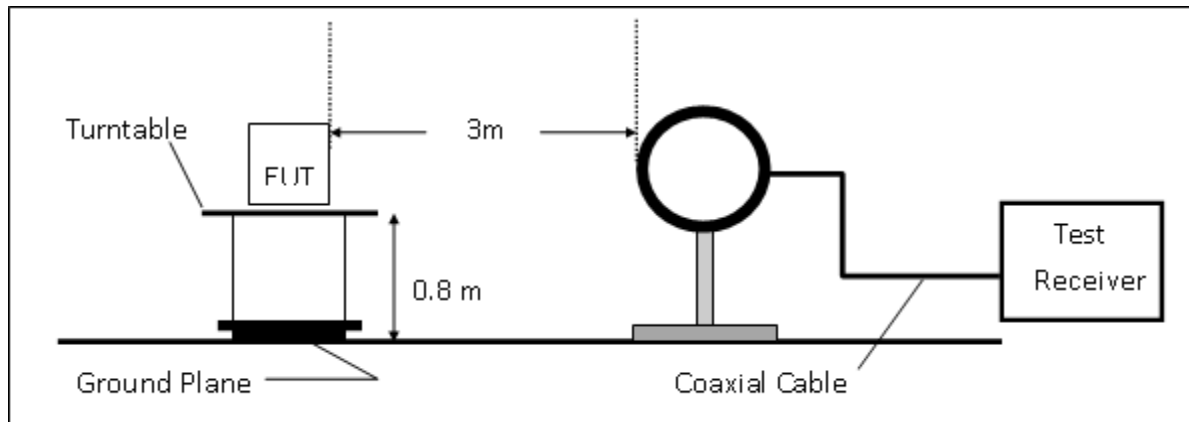
SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2019	07/11/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	11/20/2019	11/19/2020
Low Pass Filter	EWT	EWT-56-0019	RF46	11/20/2019	11/19/2020
Notch Filter	EWT	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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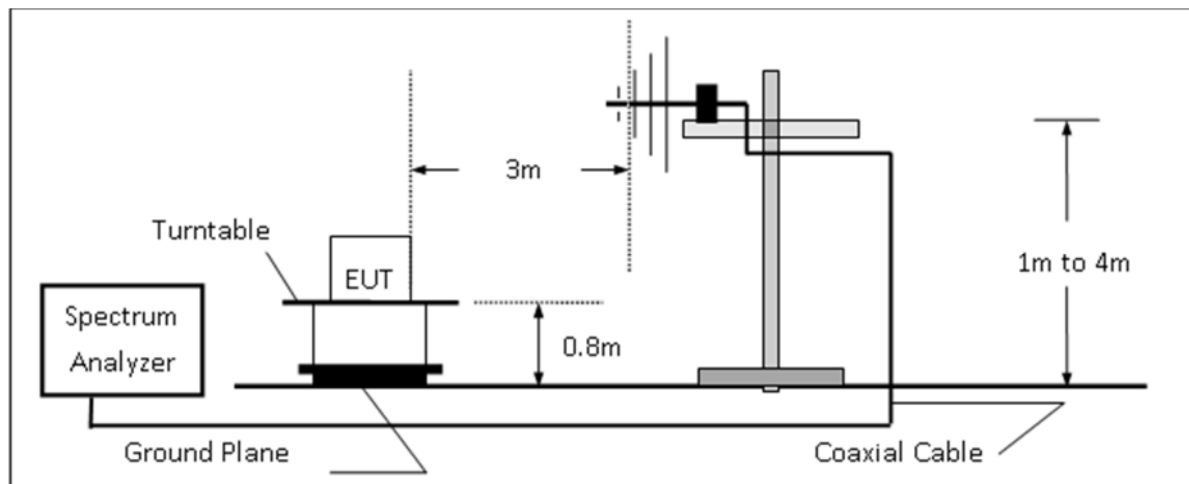
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11.3 Test SET-UP

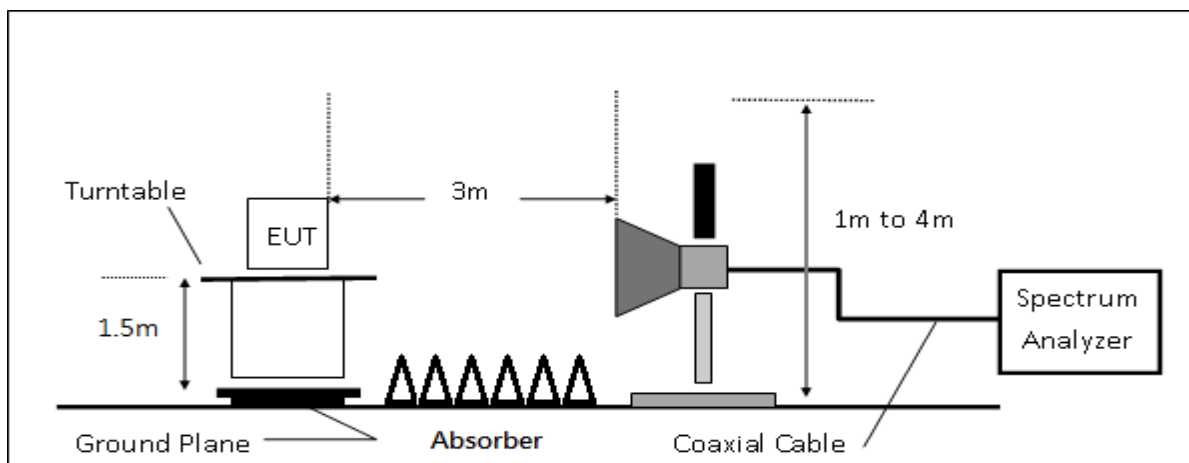
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. 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.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. 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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/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.

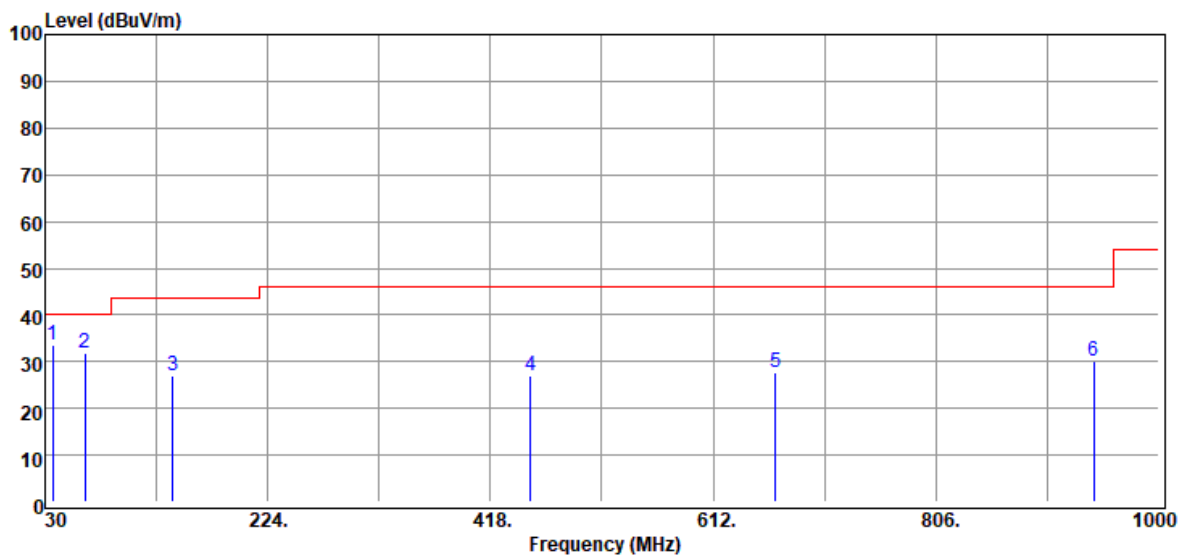
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 1	Test Date	:2020-06-20
Test Frequency	:5220 MHz	Temp./Humi.	:21.2/62
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kailin



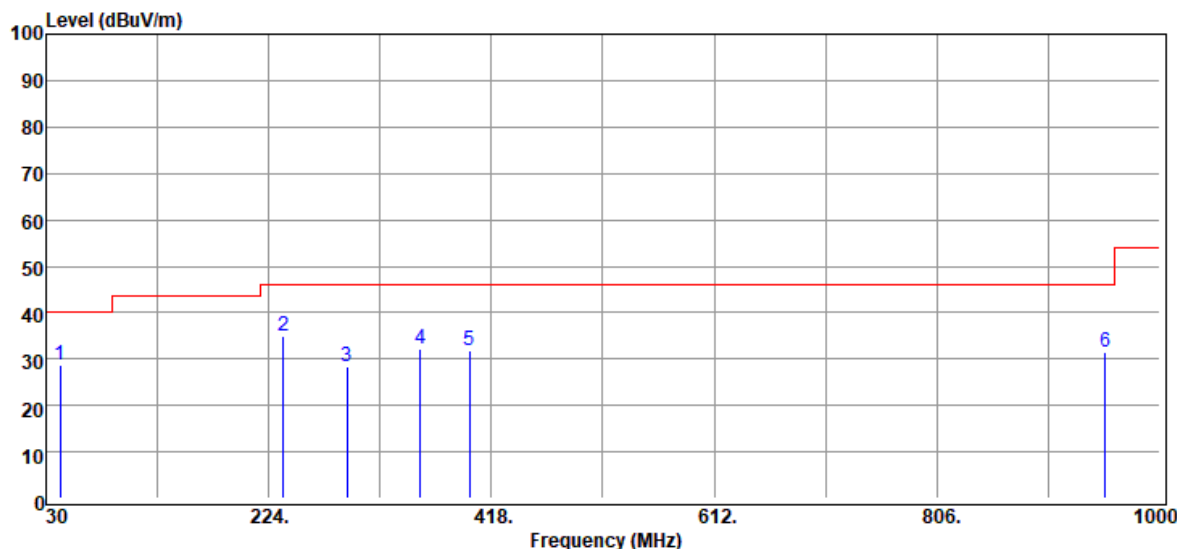
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
36.79	Peak	51.35	-17.92	33.43	40.00	-6.57
64.92	Peak	49.89	-18.23	31.66	40.00	-8.34
141.55	Peak	43.72	-16.79	26.93	43.50	-16.57
452.92	Peak	38.19	-11.32	26.87	46.00	-19.13
666.32	Peak	36.24	-8.54	27.70	46.00	-18.30
943.74	Peak	34.95	-4.70	30.25	46.00	-15.75

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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin


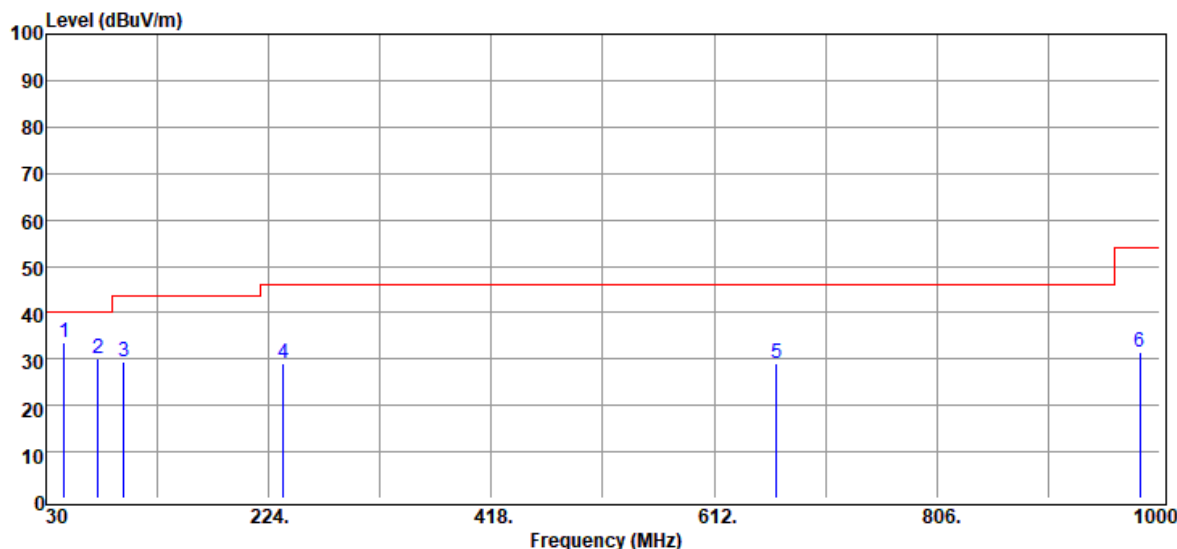
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
42.61	Peak	45.99	-17.15	28.84	40.00	-11.16
236.61	Peak	52.22	-17.17	35.05	46.00	-10.95
291.90	Peak	44.01	-15.56	28.45	46.00	-17.55
355.92	Peak	46.21	-14.01	32.20	46.00	-13.80
398.60	Peak	44.76	-12.83	31.93	46.00	-14.07
952.47	Peak	35.96	-4.48	31.48	46.00	-14.52

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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :VERTICAL
Engineer :Kailin


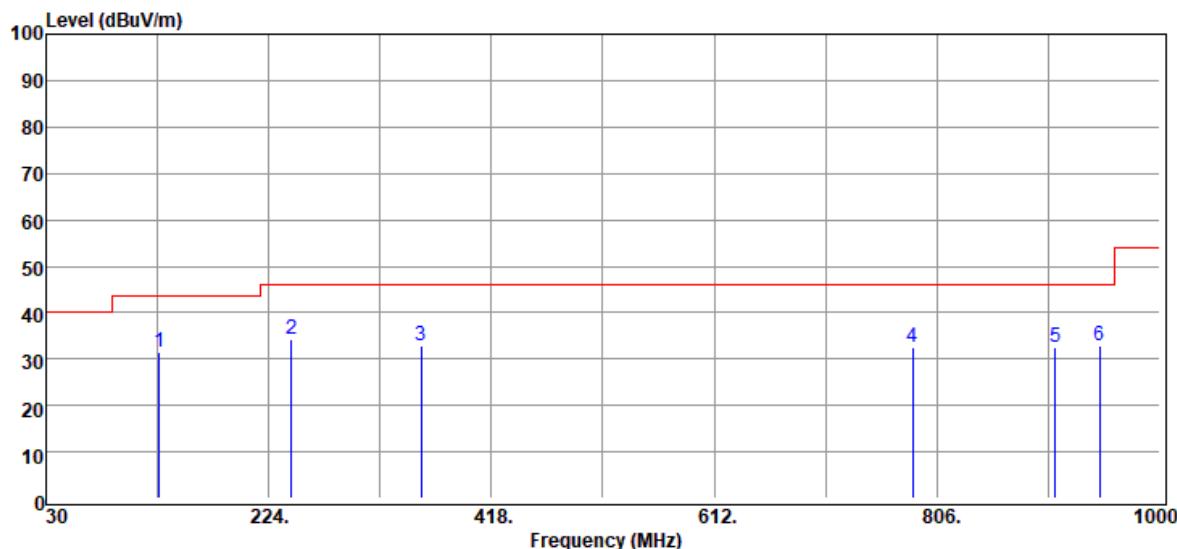
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	Peak	50.62	-16.95	33.67	40.00	-6.33
75.59	Peak	50.53	-20.52	30.01	40.00	-9.99
97.90	Peak	51.18	-21.85	29.33	43.50	-14.17
236.61	Peak	46.11	-17.17	28.94	46.00	-17.06
666.32	Peak	37.47	-8.54	28.93	46.00	-17.07
982.54	Peak	35.71	-4.09	31.62	54.00	-22.38

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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
128.94	Peak	49.40	-17.99	31.41	43.50	-12.09
243.40	Peak	51.30	-16.96	34.34	46.00	-11.66
356.89	Peak	46.79	-13.99	32.80	46.00	-13.20
784.66	Peak	38.52	-6.17	32.35	46.00	-13.65
908.82	Peak	37.59	-5.18	32.41	46.00	-13.59
947.62	Peak	37.59	-4.61	32.98	46.00	-13.02

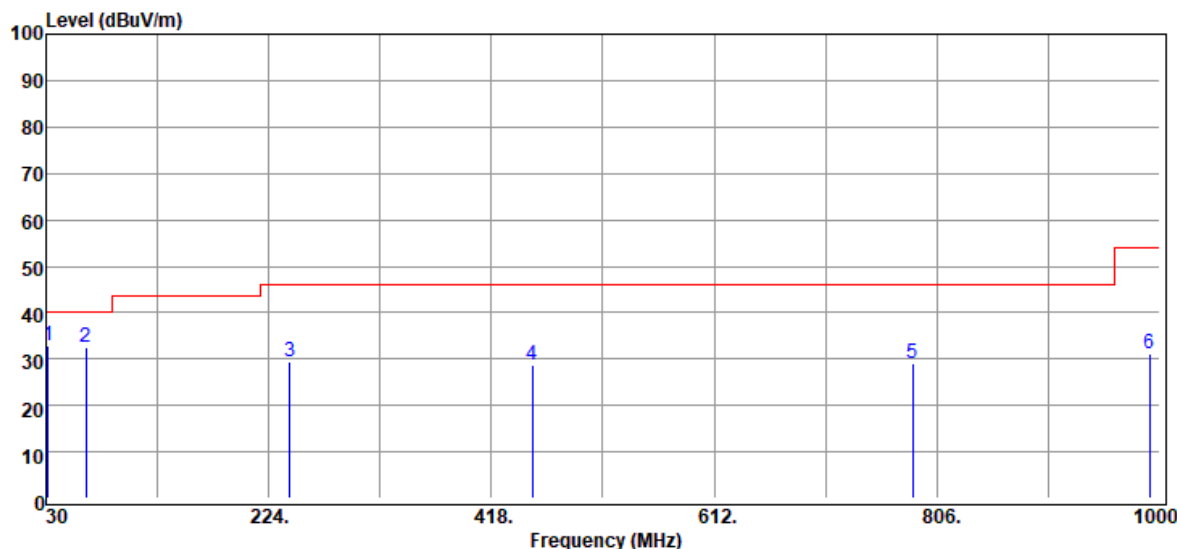
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	51.10	-18.29	32.81	40.00	-7.19
64.92	Peak	50.93	-18.23	32.70	40.00	-7.30
242.43	Peak	46.40	-16.96	29.44	46.00	-16.56
453.89	Peak	40.09	-11.33	28.76	46.00	-17.24
784.66	Peak	35.25	-6.17	29.08	46.00	-16.92
991.27	Peak	35.37	-4.07	31.30	54.00	-22.70

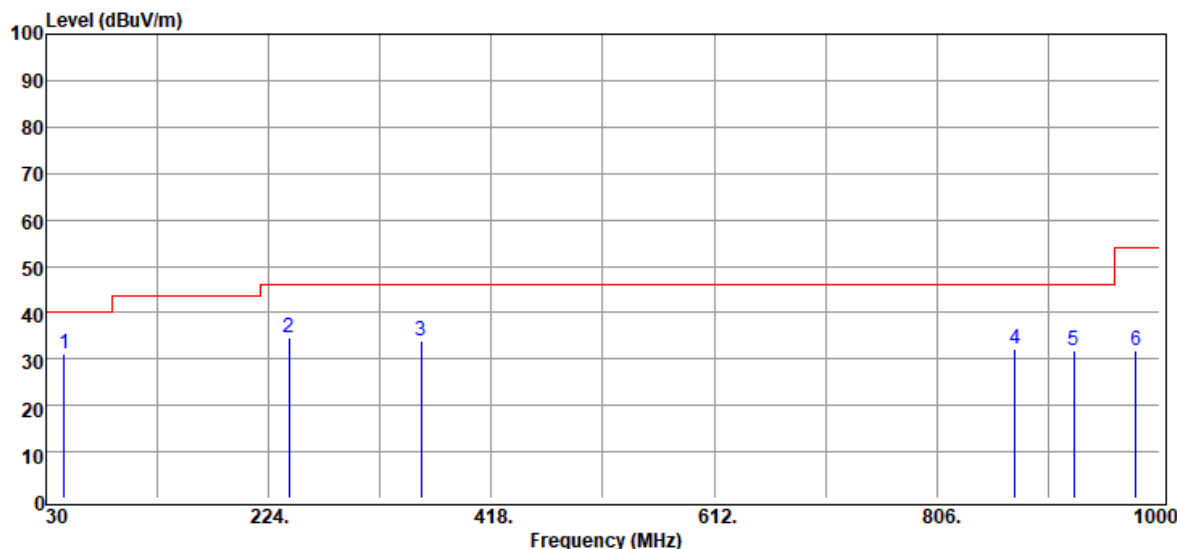
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	Peak	48.04	-16.95	31.09	40.00	-8.91
241.46	Peak	51.55	-16.97	34.58	46.00	-11.42
356.89	Peak	47.88	-13.99	33.89	46.00	-12.11
873.90	Peak	37.99	-5.76	32.23	46.00	-13.77
925.31	Peak	36.46	-4.78	31.68	46.00	-14.32
979.63	Peak	35.94	-4.07	31.87	54.00	-22.13

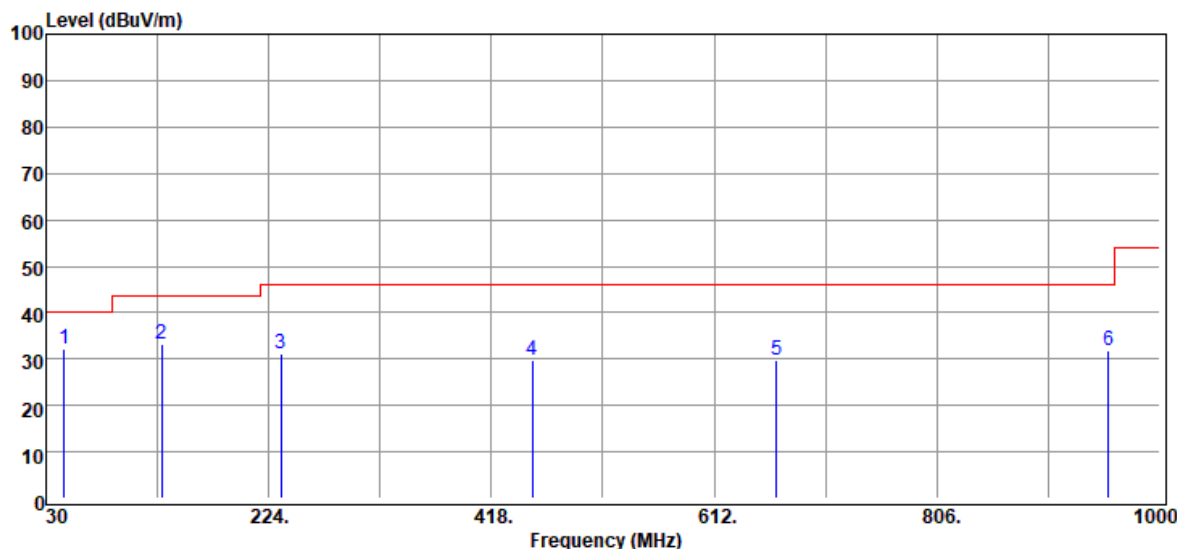
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	Peak	49.13	-16.95	32.18	40.00	-7.82
130.88	Peak	50.94	-17.79	33.15	43.50	-10.35
234.67	Peak	48.56	-17.30	31.26	46.00	-14.74
453.89	Peak	41.00	-11.33	29.67	46.00	-16.33
666.32	Peak	38.31	-8.54	29.77	46.00	-16.23
955.38	Peak	36.22	-4.43	31.79	46.00	-14.21

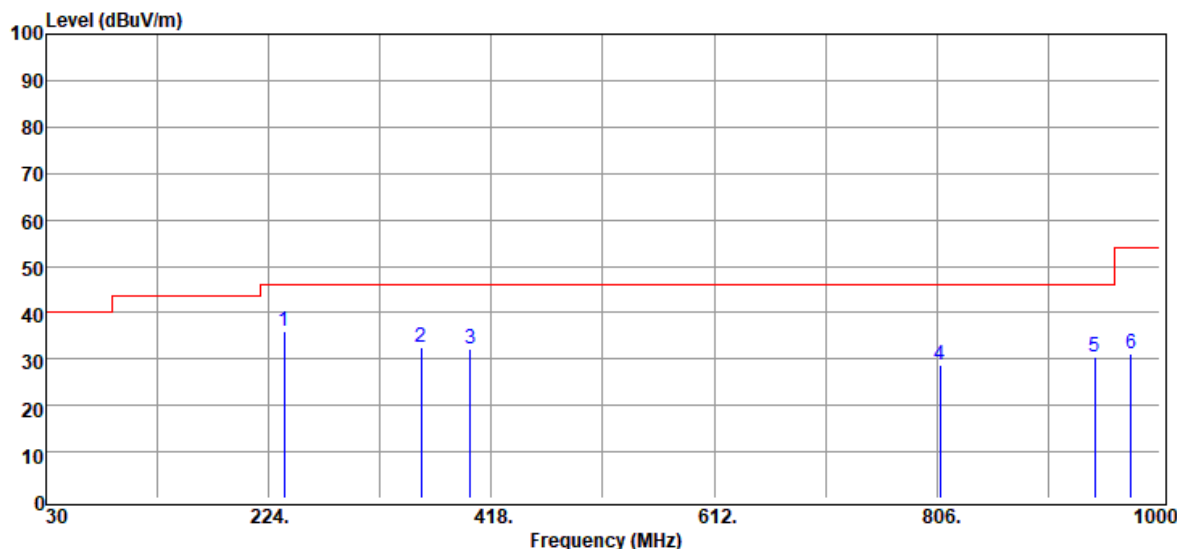
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.2/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
237.58	Peak	53.08	-17.12	35.96	46.00	-10.04
356.89	Peak	46.48	-13.99	32.49	46.00	-13.51
399.57	Peak	44.92	-12.82	32.10	46.00	-13.90
808.91	Peak	34.82	-6.13	28.69	46.00	-17.31
943.74	Peak	35.07	-4.70	30.37	46.00	-15.63
974.78	Peak	35.30	-4.12	31.18	54.00	-22.82

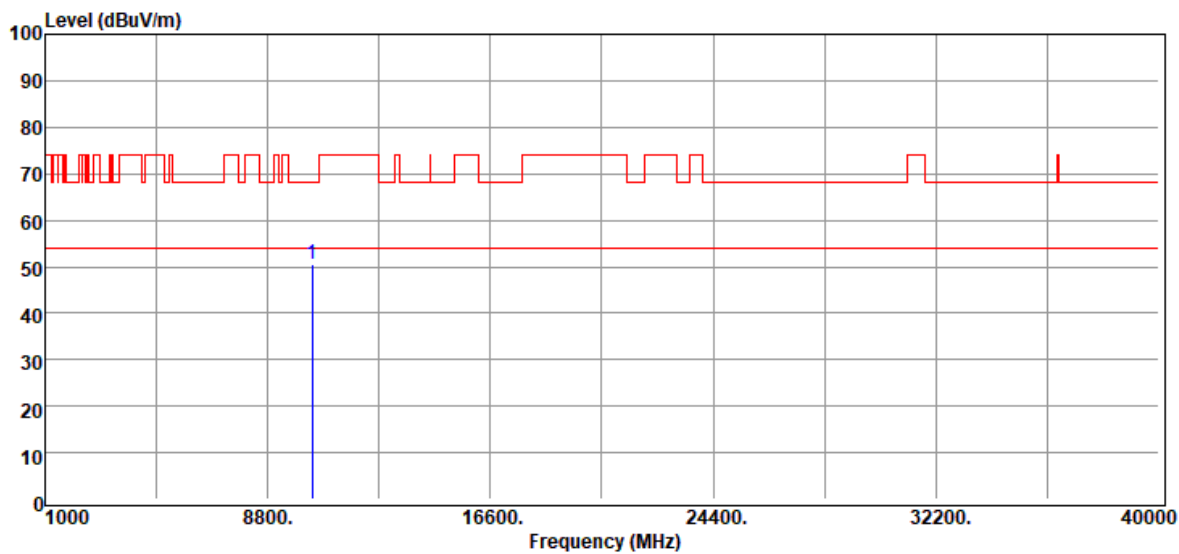
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11.7.2 Above 1GHz Worst-Case Data:

Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 1	Test Date	:2020-06-22
Test Frequency	:5180 MHz	Temp./Humi.	:24.4/64
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kailin



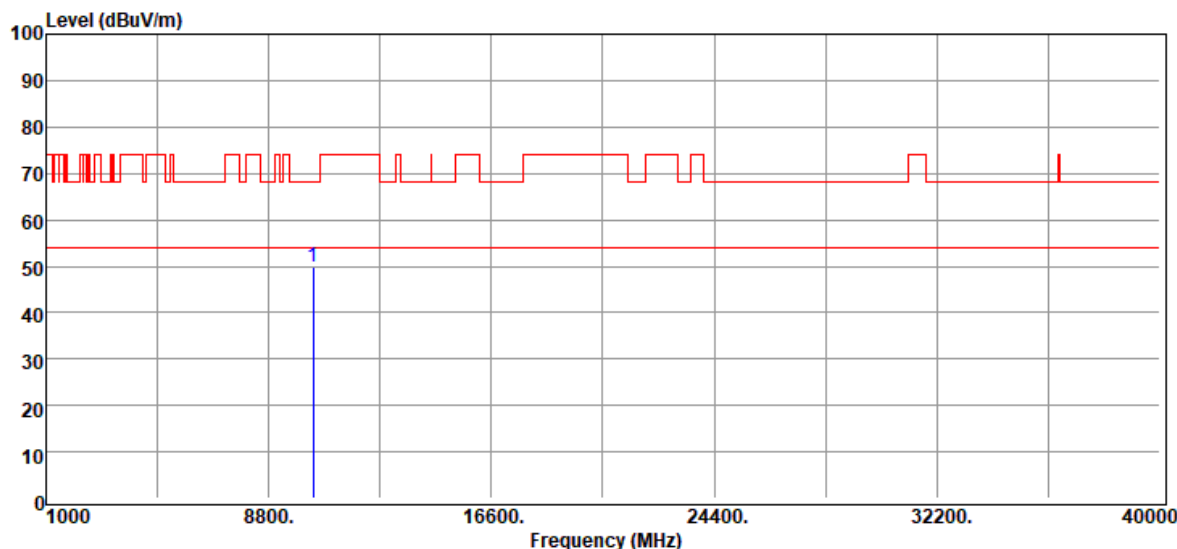
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	40.27	10.28	50.55	68.20	-17.65

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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	39.72	10.28	50.00	68.20	-18.20

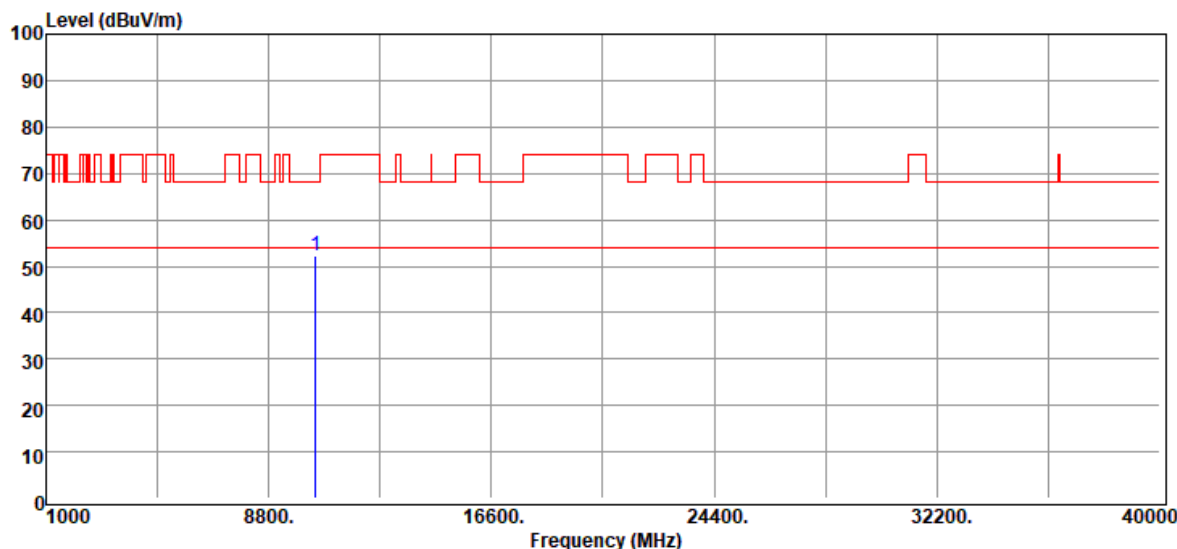
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	41.10	11.00	52.10	68.20	-16.10

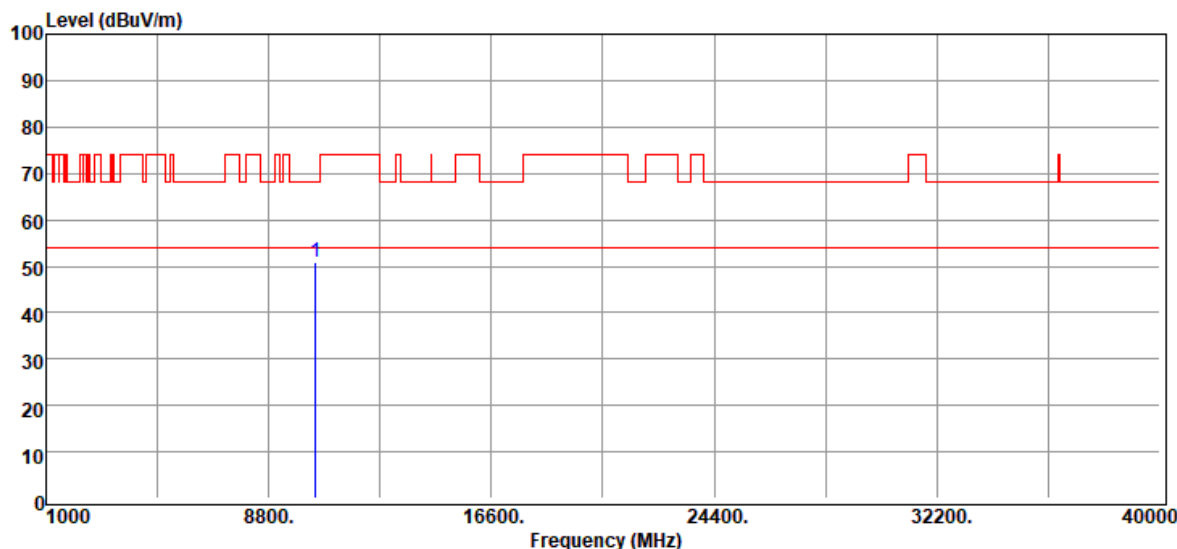
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	39.99	11.00	50.99	68.20	-17.21

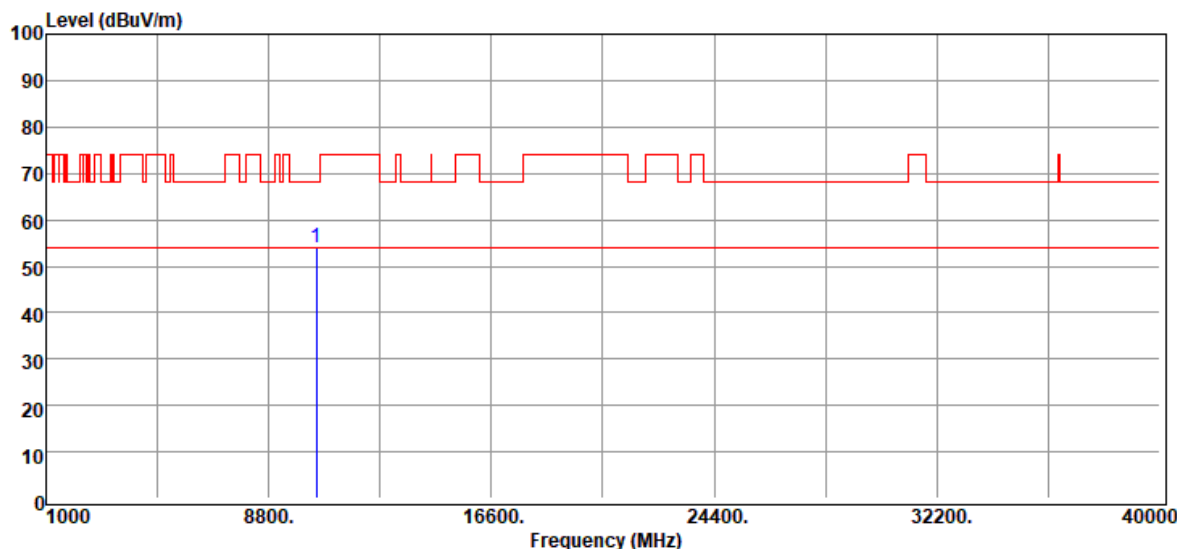
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	42.68	11.18	53.86	68.20	-14.34

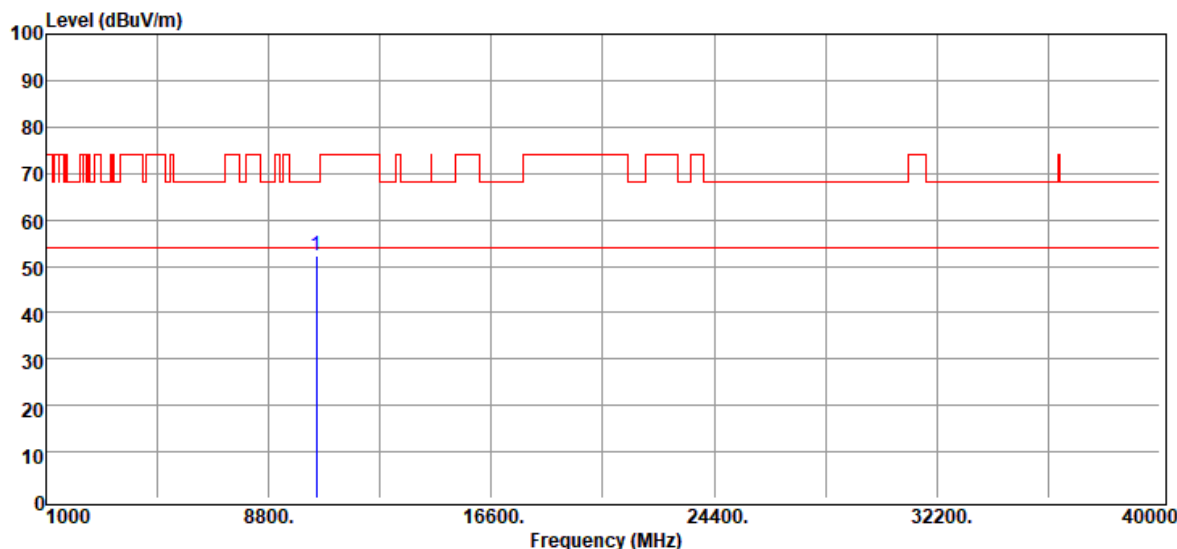
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	41.22	11.18	52.40	68.20	-15.80

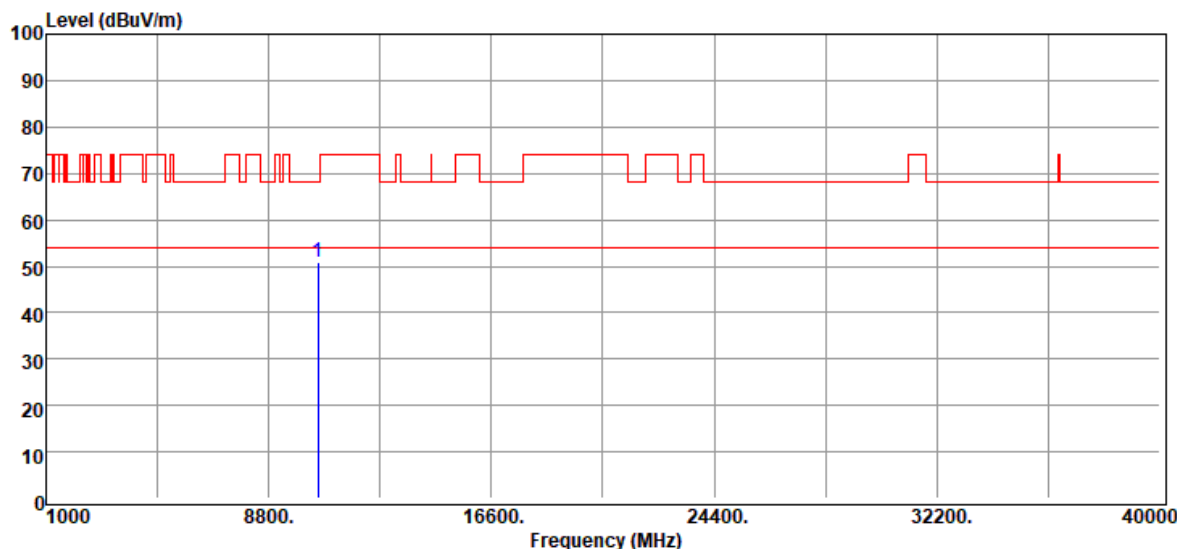
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	39.72	11.22	50.94	68.20	-17.26

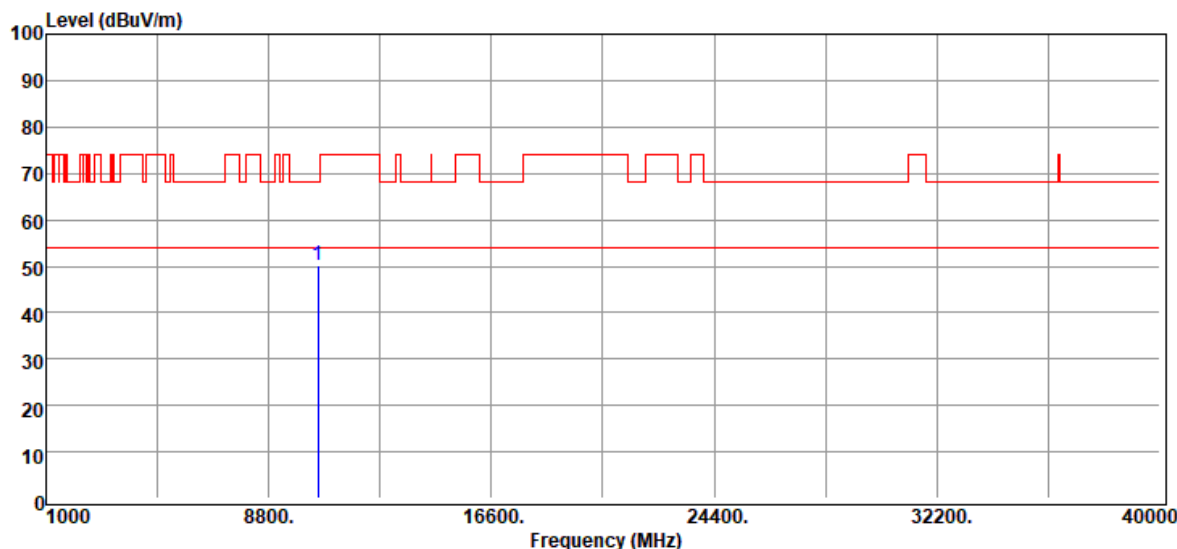
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	38.96	11.22	50.18	68.20	-18.02

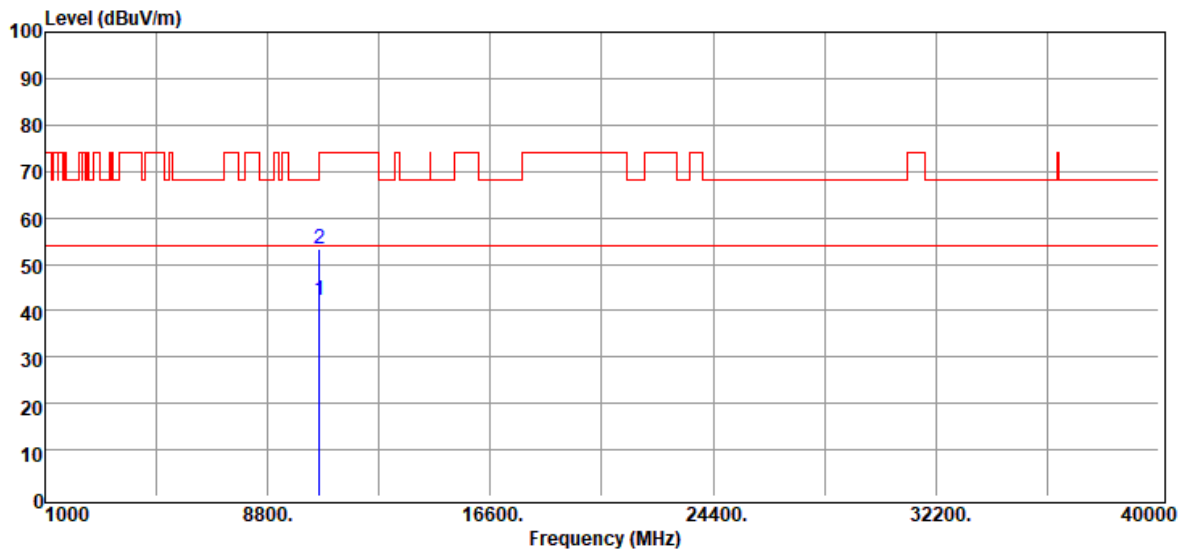
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :VERTICAL
Engineer :Kailin



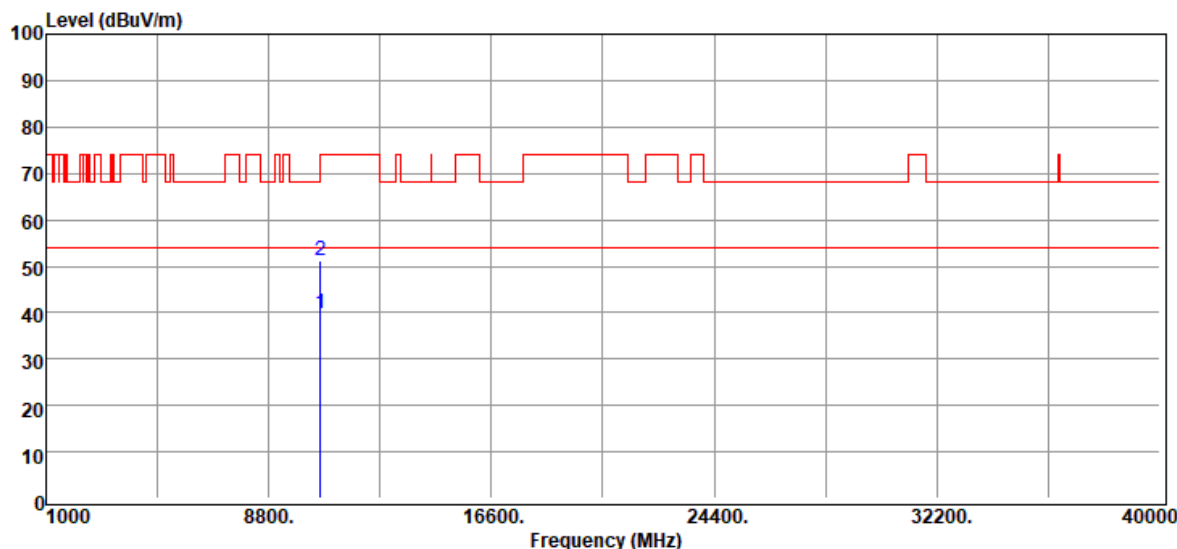
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	31.22	11.10	42.32	54.00	-11.68
10600.00	Peak	42.15	11.10	53.25	74.00	-20.75

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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.3/65
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



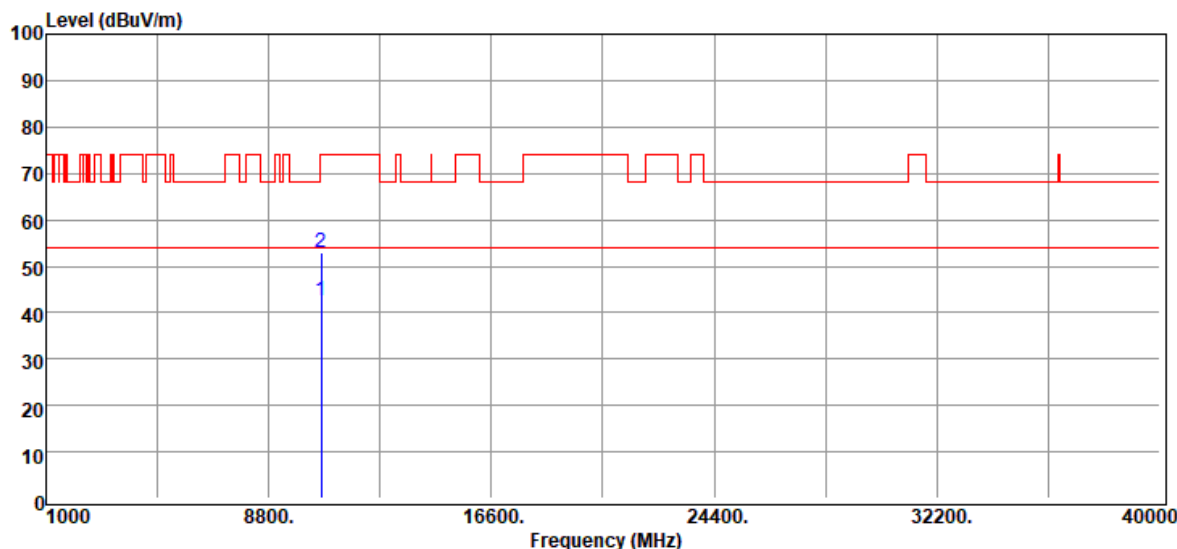
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	28.58	11.10	39.68	54.00	-14.32
10600.00	Peak	40.11	11.10	51.21	74.00	-22.79

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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	31.45	11.12	42.57	54.00	-11.43
10640.00	Peak	41.80	11.12	52.92	74.00	-21.08

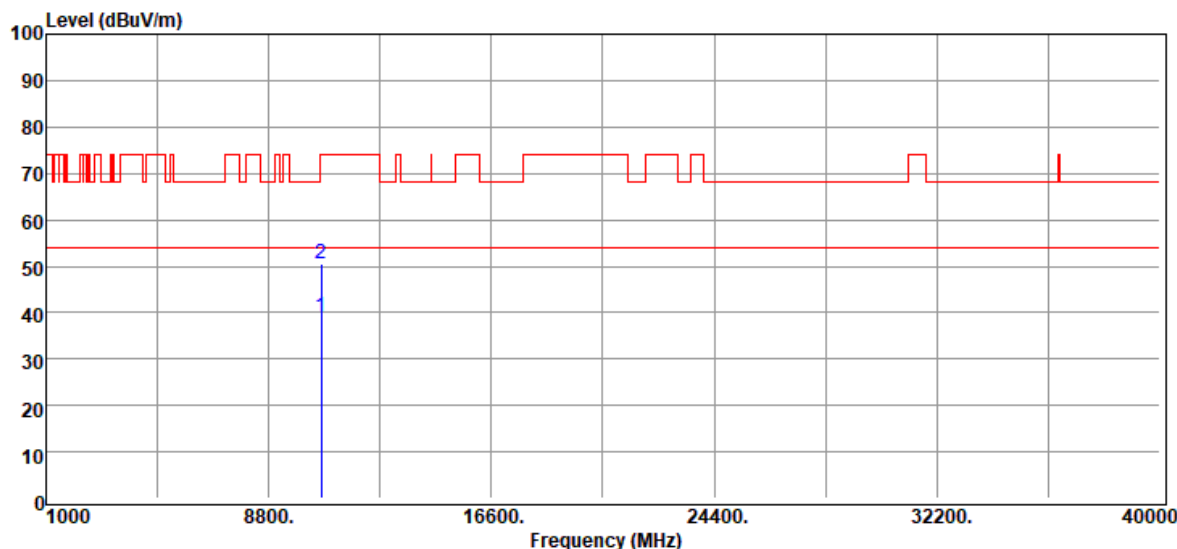
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.89	11.12	39.01	54.00	-14.99
10640.00	Peak	39.44	11.12	50.56	74.00	-23.44

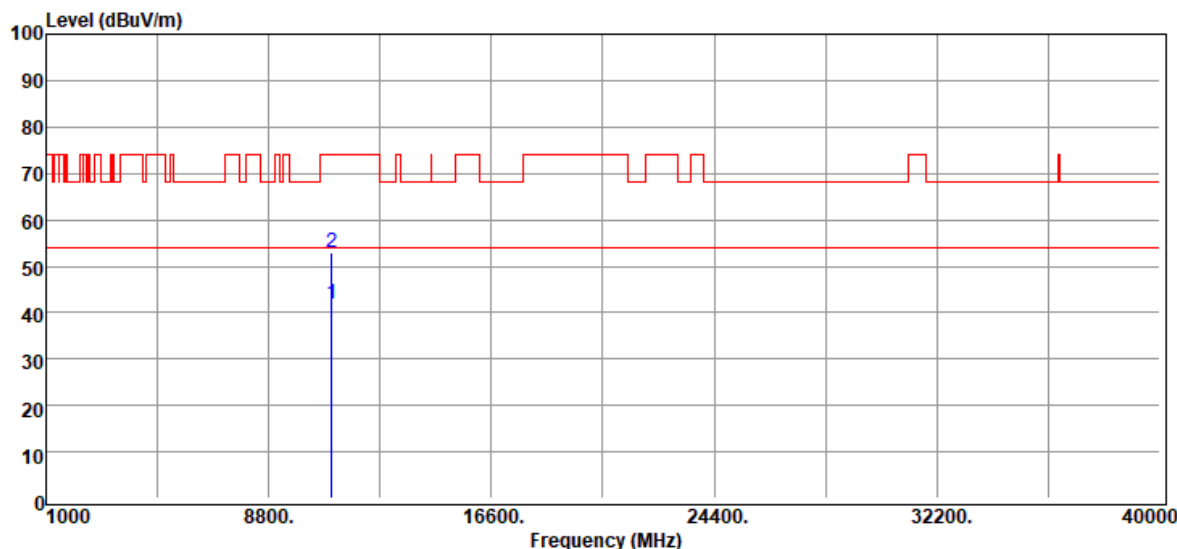
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	31.87	9.88	41.75	54.00	-12.25
11000.00	Peak	43.05	9.88	52.93	74.00	-21.07

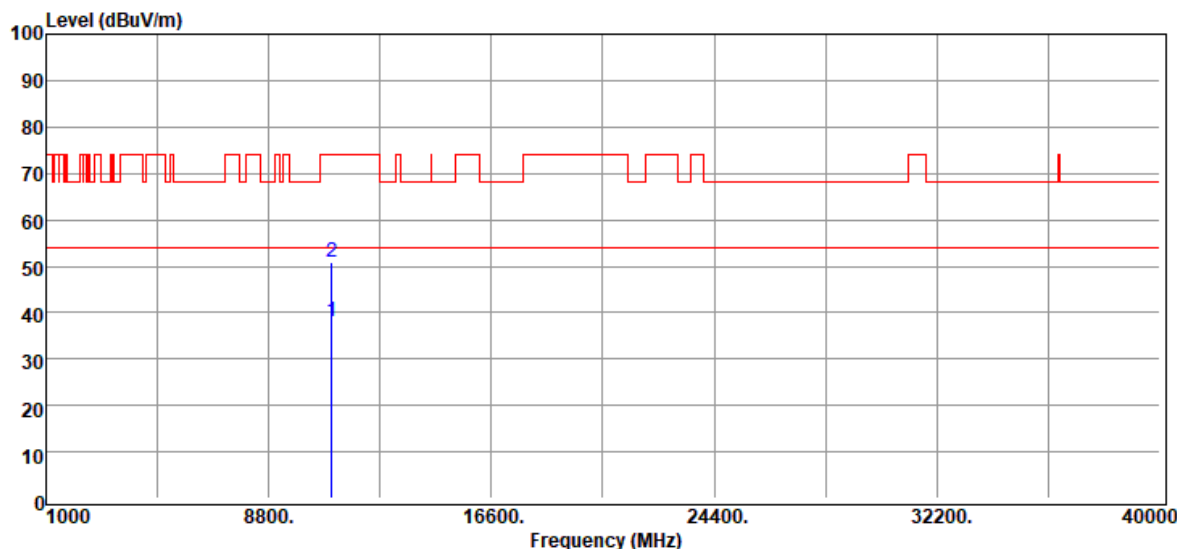
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	28.32	9.88	38.20	54.00	-15.80
11000.00	Peak	40.95	9.88	50.83	74.00	-23.17

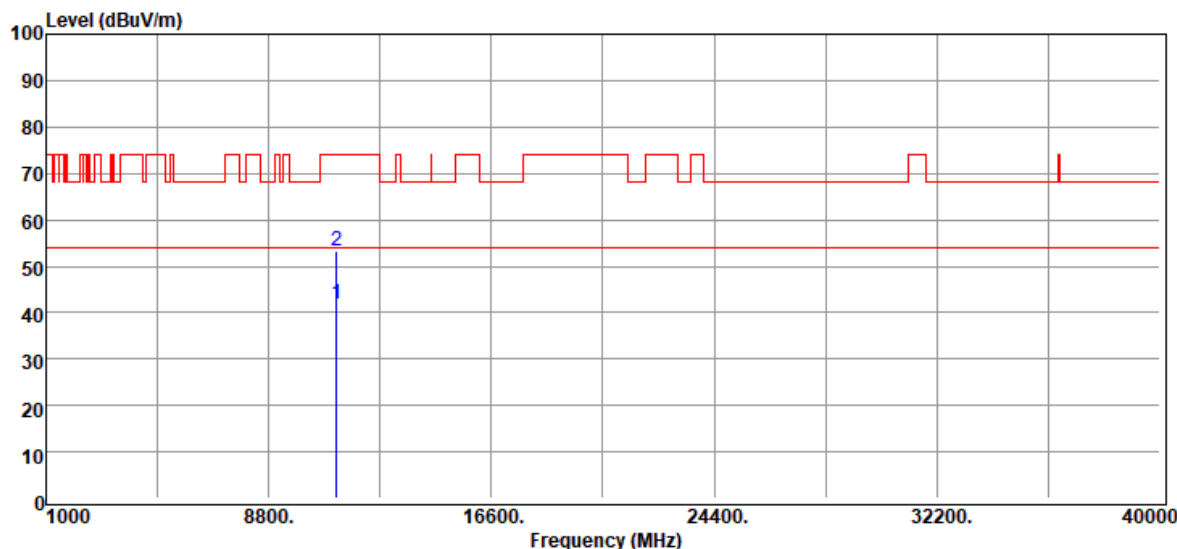
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	31.62	10.39	42.01	54.00	-11.99
11160.00	Peak	42.79	10.39	53.18	74.00	-20.82

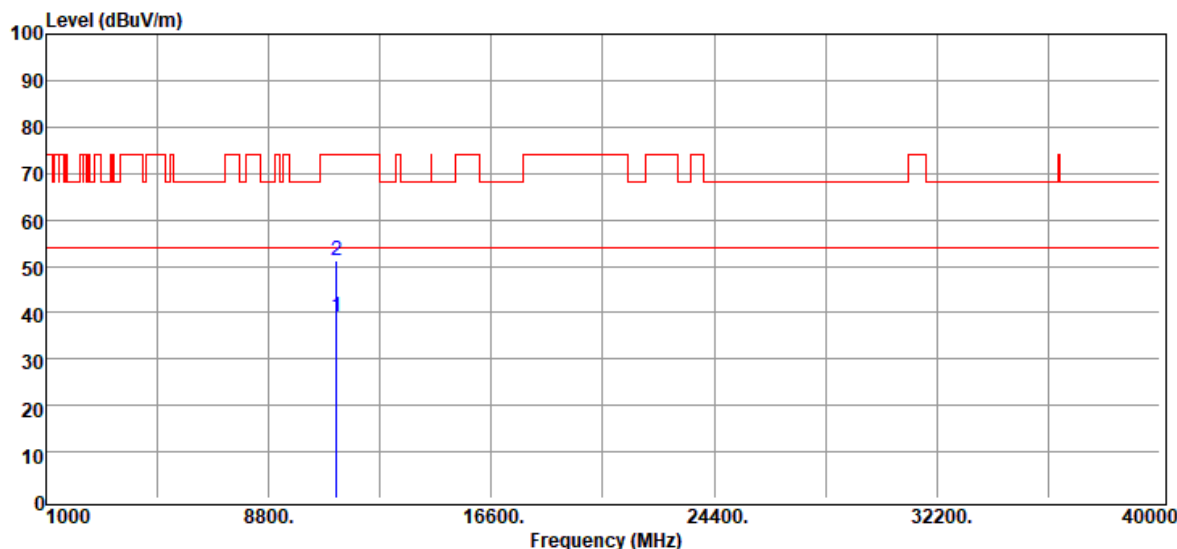
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/65
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	28.79	10.39	39.18	54.00	-14.82
11160.00	Peak	40.74	10.39	51.13	74.00	-22.87

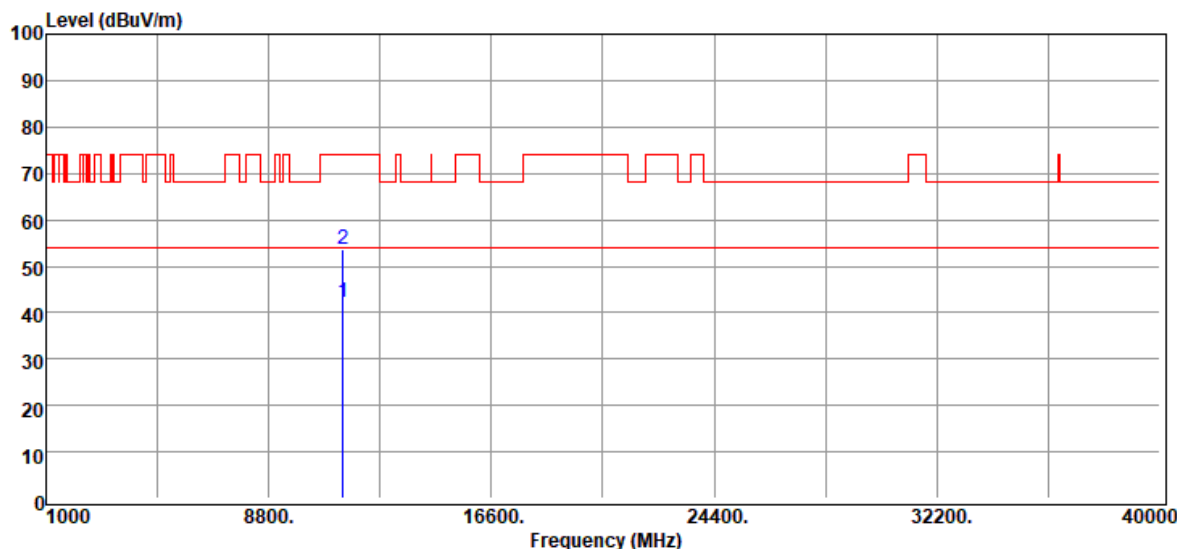
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	31.05	11.09	42.14	54.00	-11.86
11400.00	Peak	42.59	11.09	53.68	74.00	-20.32

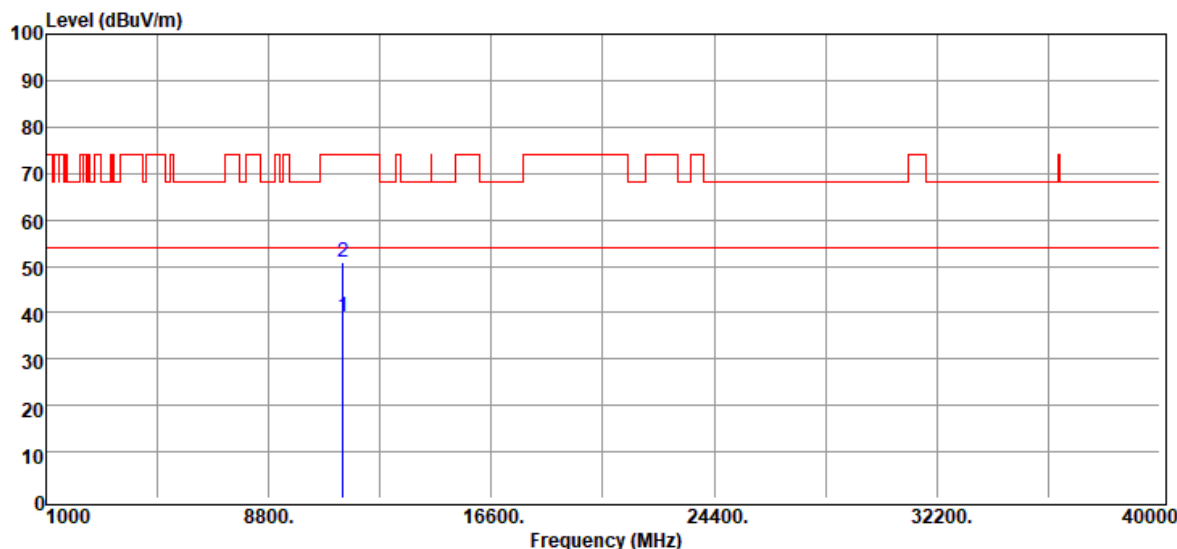
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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	28.07	11.09	39.16	54.00	-14.84
11400.00	Peak	39.89	11.09	50.98	74.00	-23.02

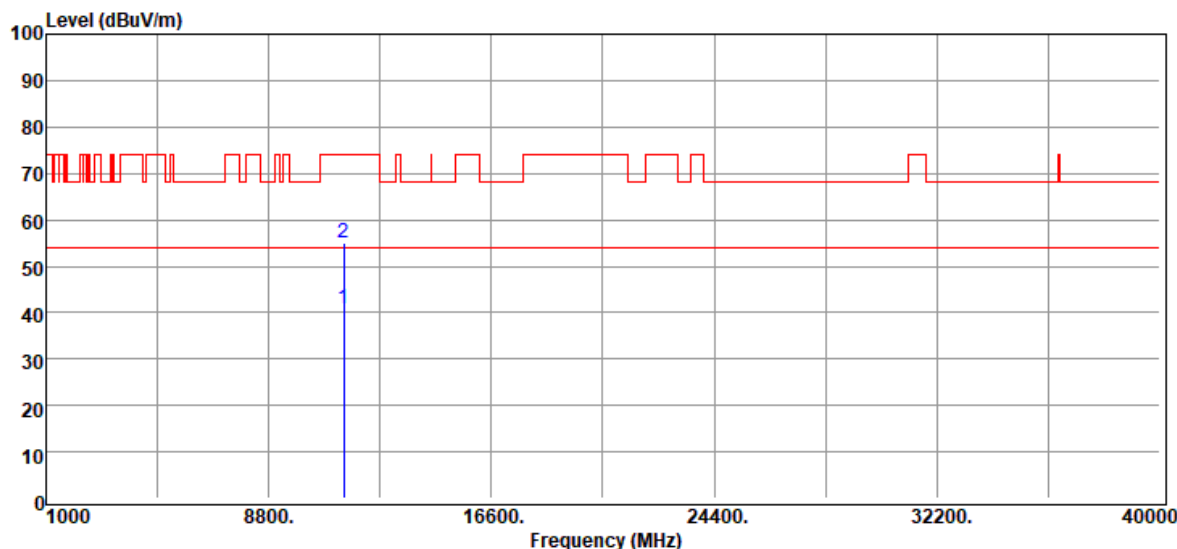
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



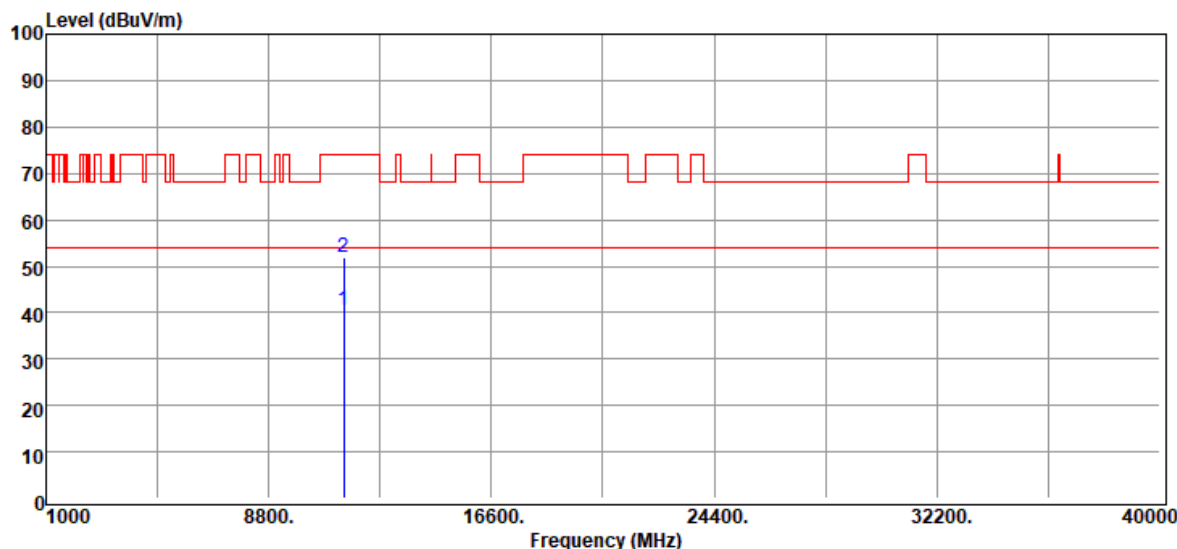
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	28.87	11.81	40.68	54.00	-13.32
11440.00	Peak	43.06	11.81	54.87	74.00	-19.13

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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	28.58	11.81	40.39	54.00	-13.61
11440.00	Peak	39.96	11.81	51.77	74.00	-22.23

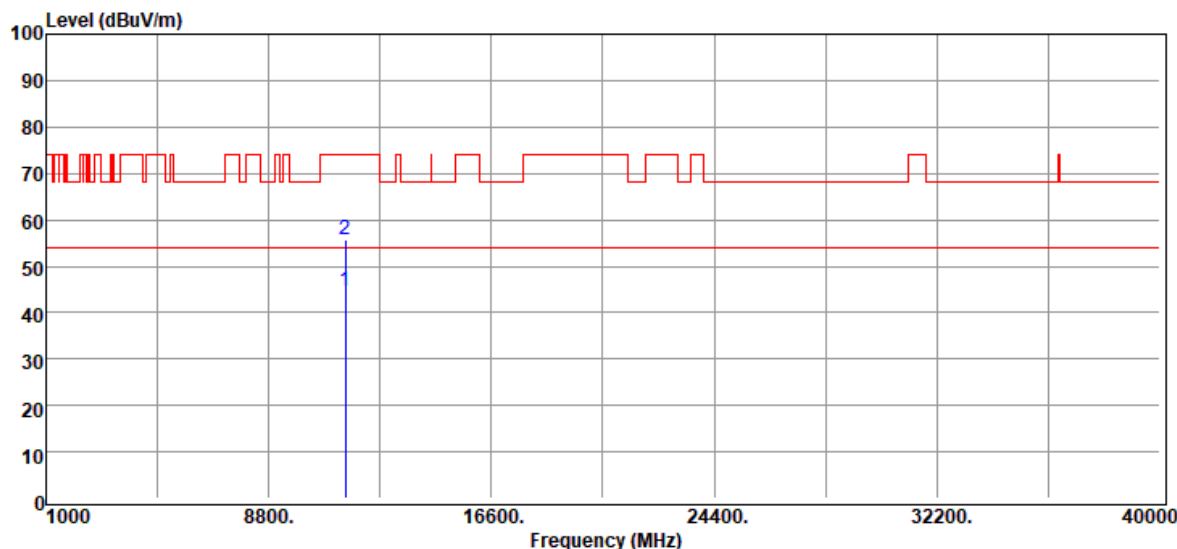
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	31.85	12.69	44.54	54.00	-9.46
11490.00	Peak	43.11	12.69	55.80	74.00	-18.20

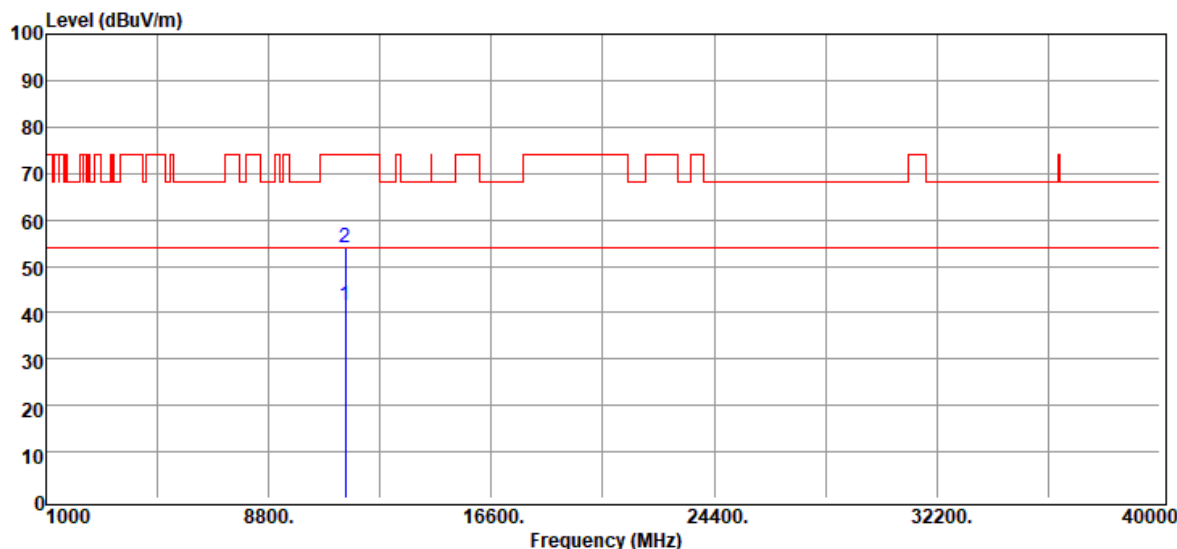
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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.84	12.69	41.53	54.00	-12.47
11490.00	Peak	41.22	12.69	53.91	74.00	-20.09

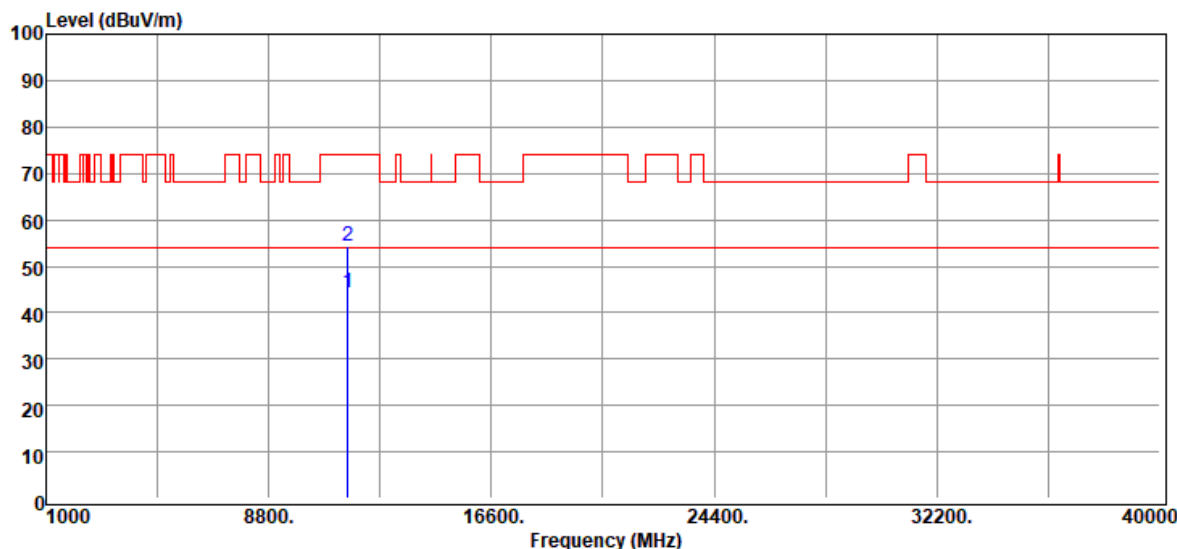
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	31.79	12.38	44.17	54.00	-9.83
11570.00	Peak	41.98	12.38	54.36	74.00	-19.64

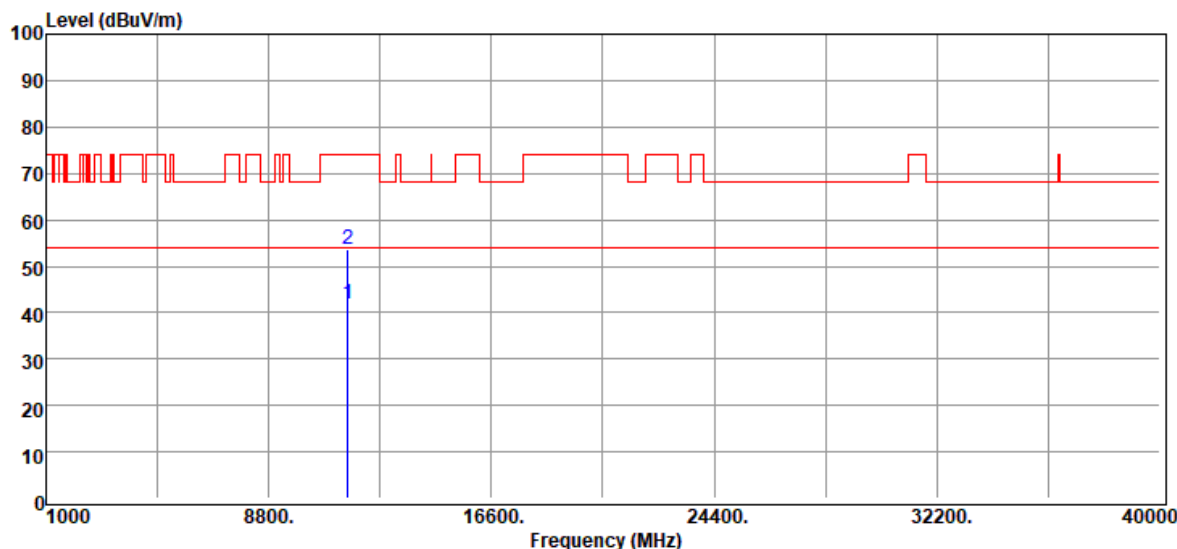
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	29.41	12.38	41.79	54.00	-12.21
11570.00	Peak	41.22	12.38	53.60	74.00	-20.40

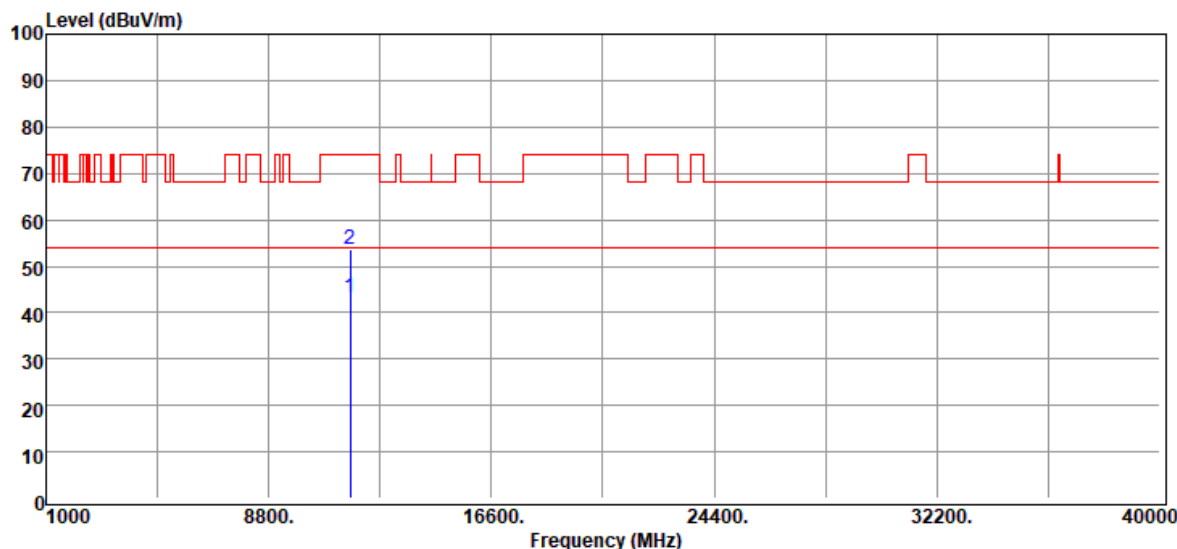
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	31.87	11.21	43.08	54.00	-10.92
11650.00	Peak	42.48	11.21	53.69	74.00	-20.31

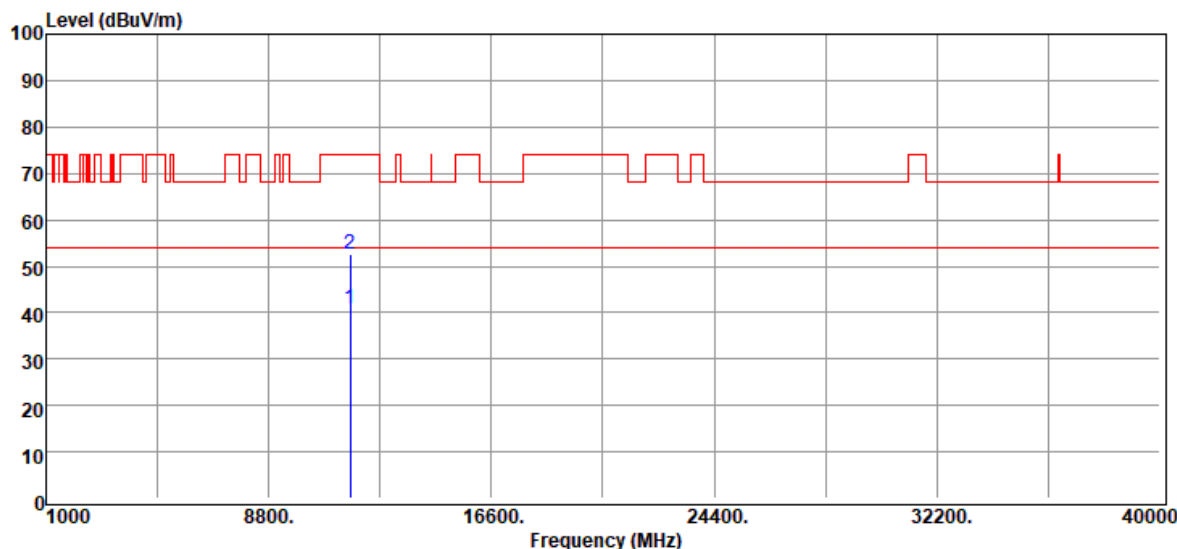
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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	29.74	11.21	40.95	54.00	-13.05
11650.00	Peak	41.53	11.21	52.74	74.00	-21.26

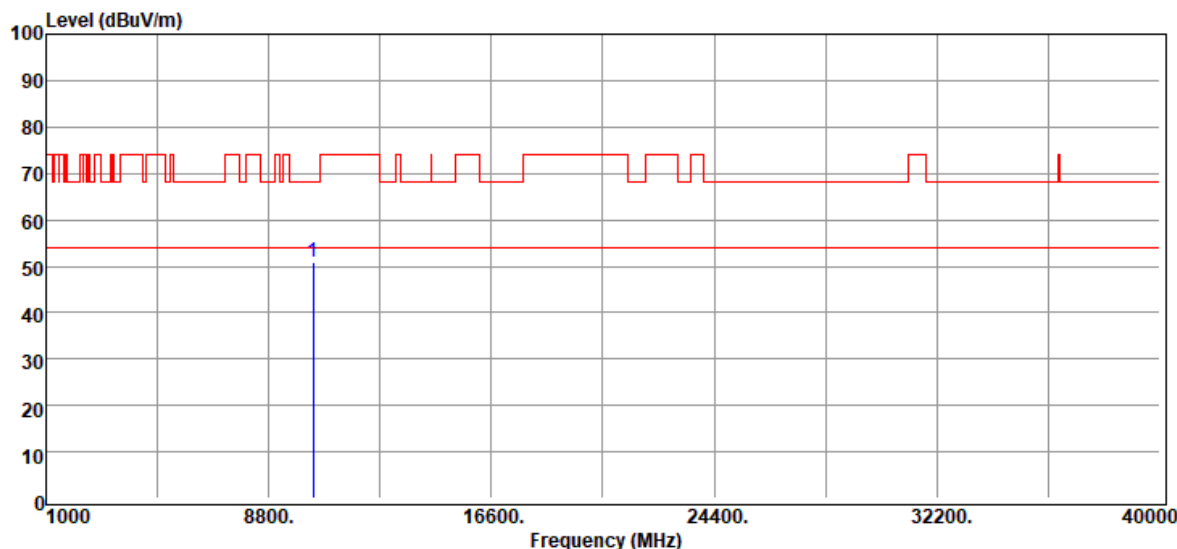
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	40.56	10.28	50.84	68.20	-17.36

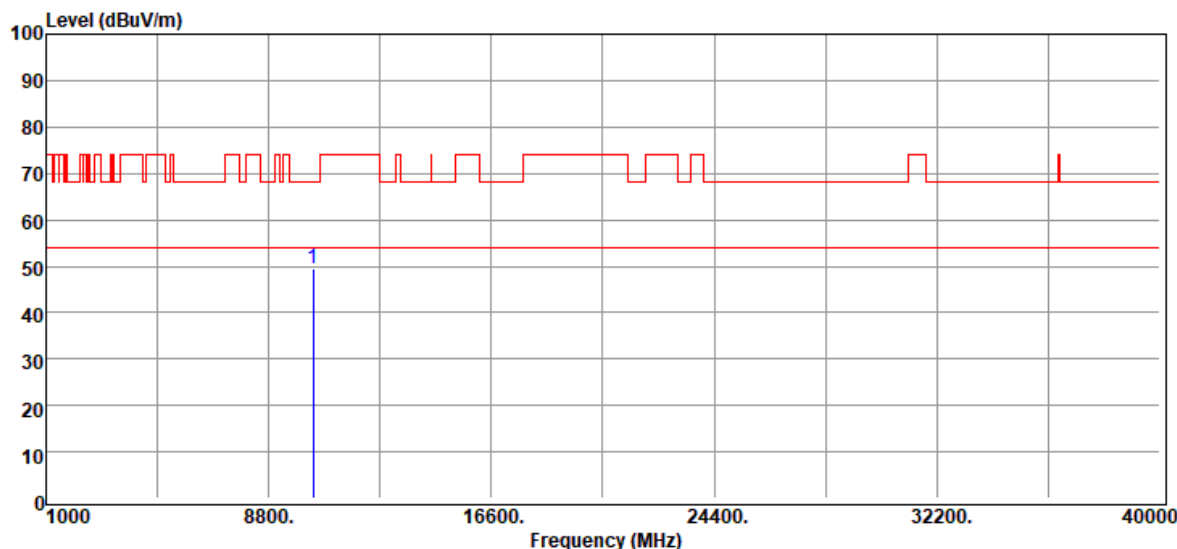
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	39.26	10.28	49.54	68.20	-18.66

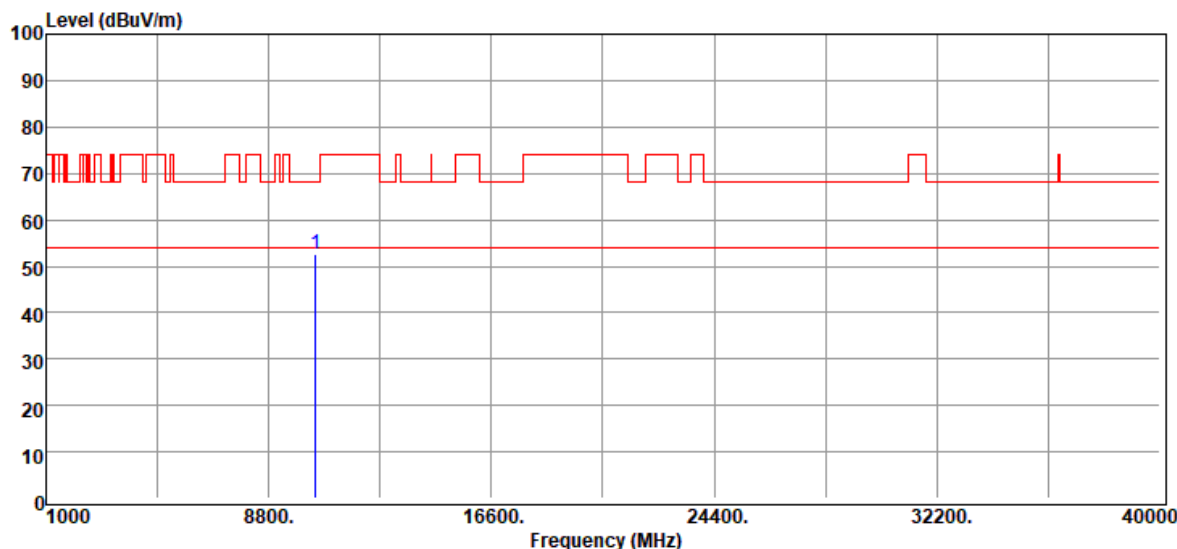
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Report Number :E2/2020/50133
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.5/62
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/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	41.49	11.00	52.49	68.20	-15.71

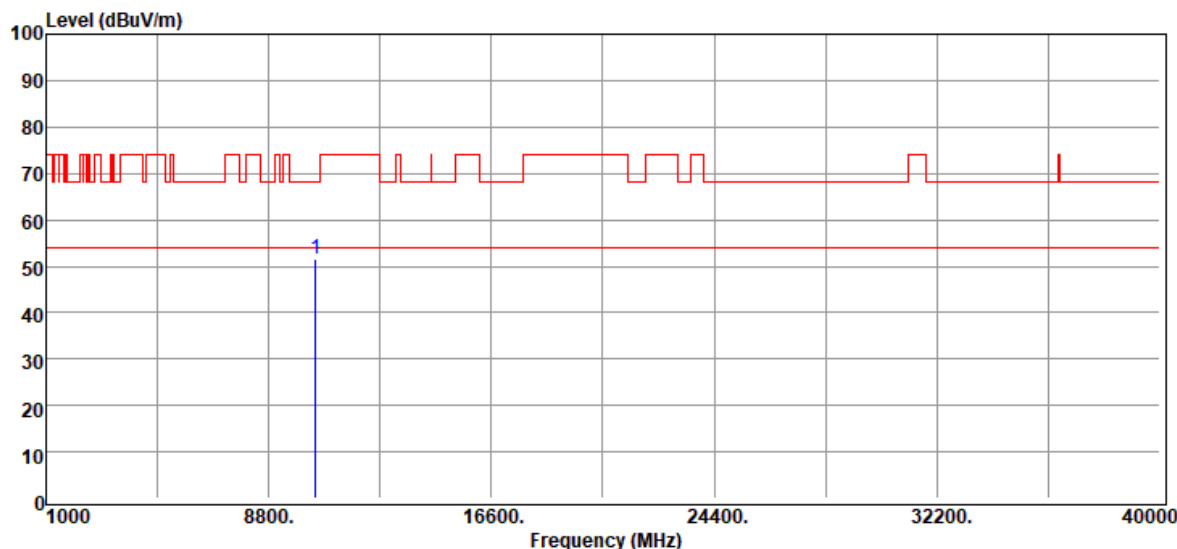
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	40.72	11.00	51.72	68.20	-16.48

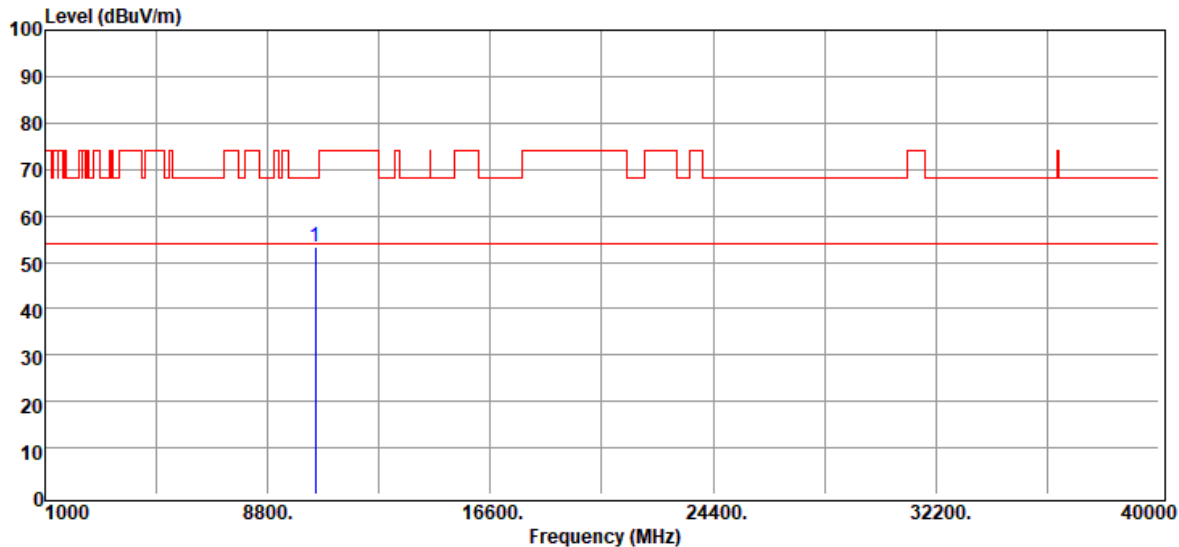
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	41.95	11.18	53.13	68.20	-15.07

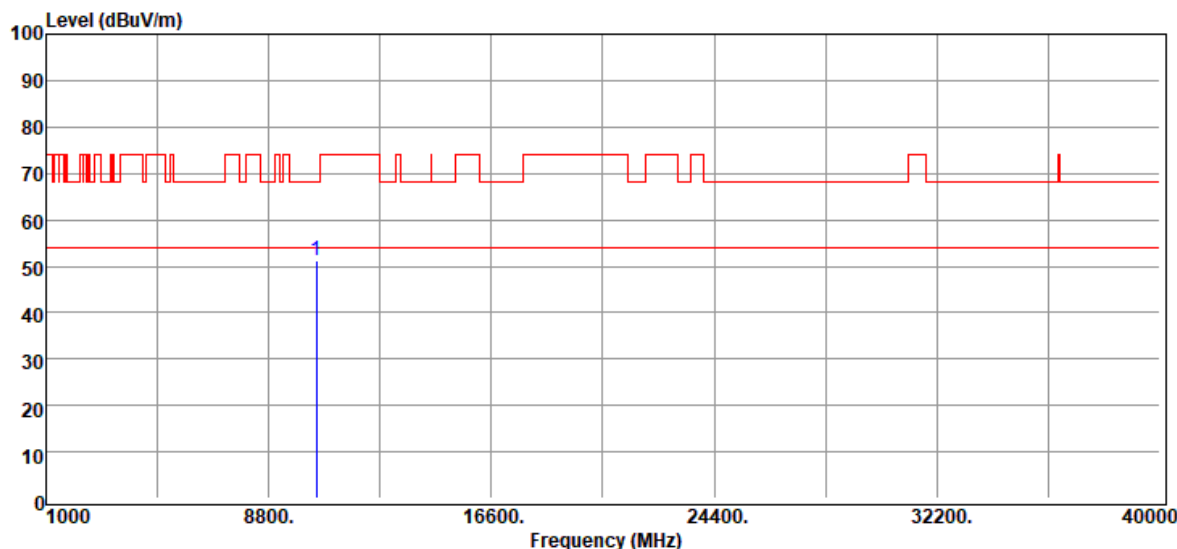
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Report Number :E2/2020/50133
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.5/62
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



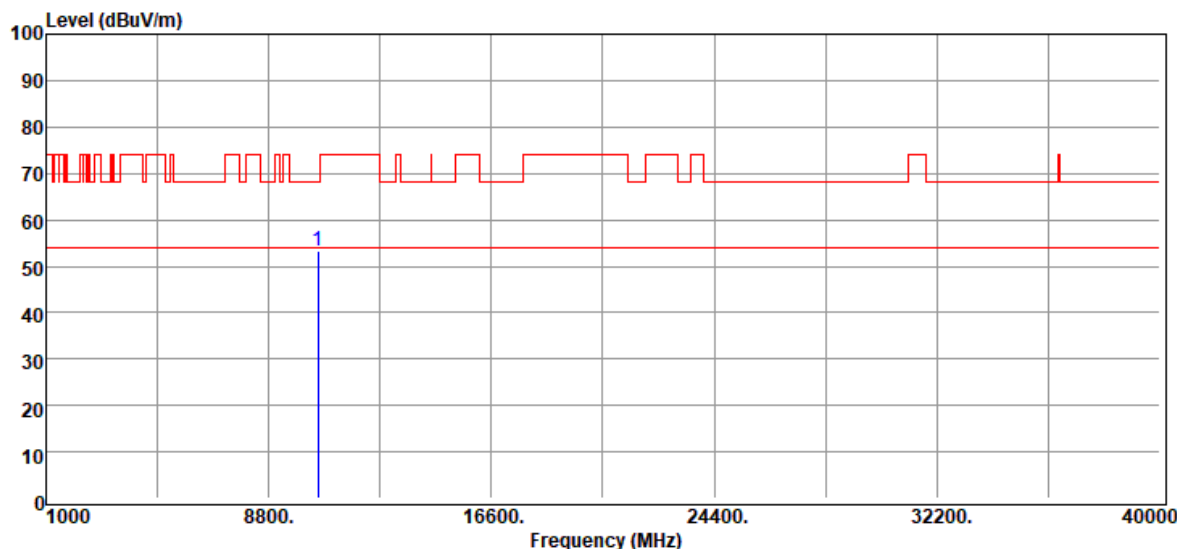
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	40.01	11.18	51.19	68.20	-17.01

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	42.16	11.22	53.38	68.20	-14.82

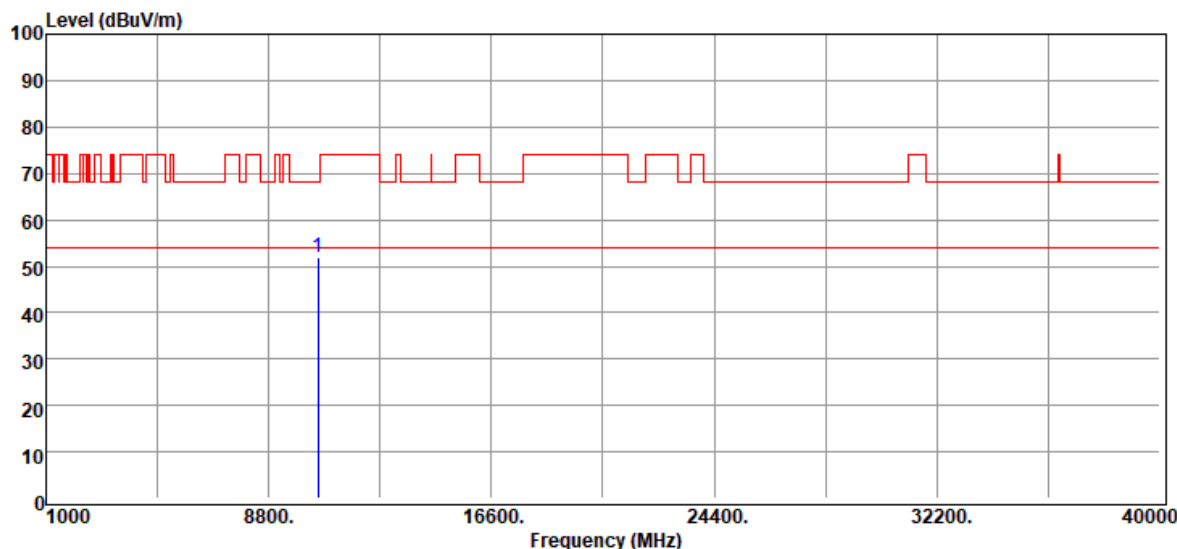
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	40.63	11.22	51.85	68.20	-16.35

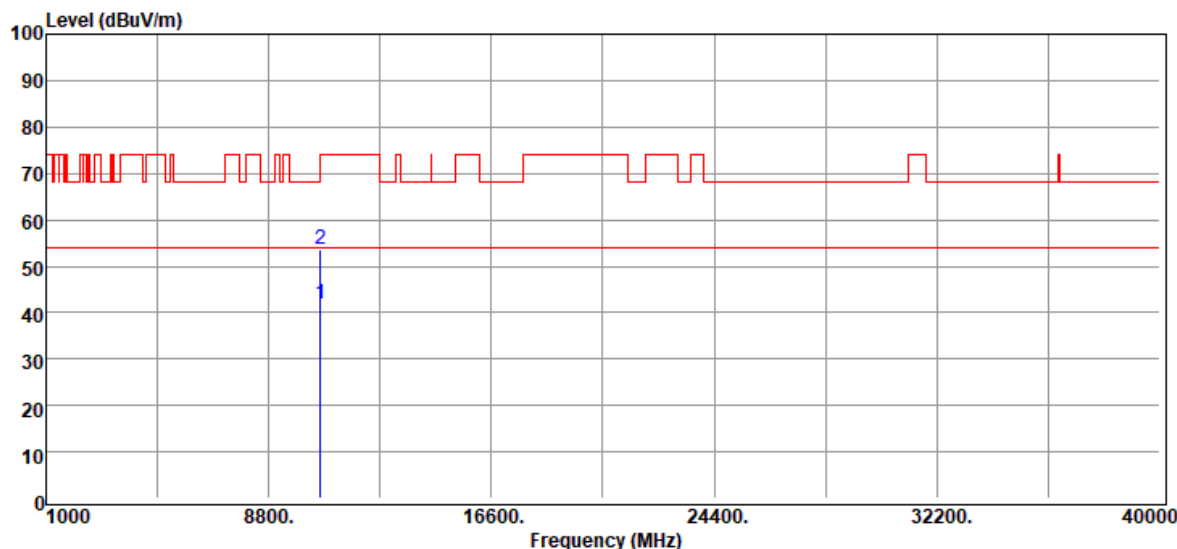
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	30.84	11.10	41.94	54.00	-12.06
10600.00	Peak	42.48	11.10	53.58	74.00	-20.42

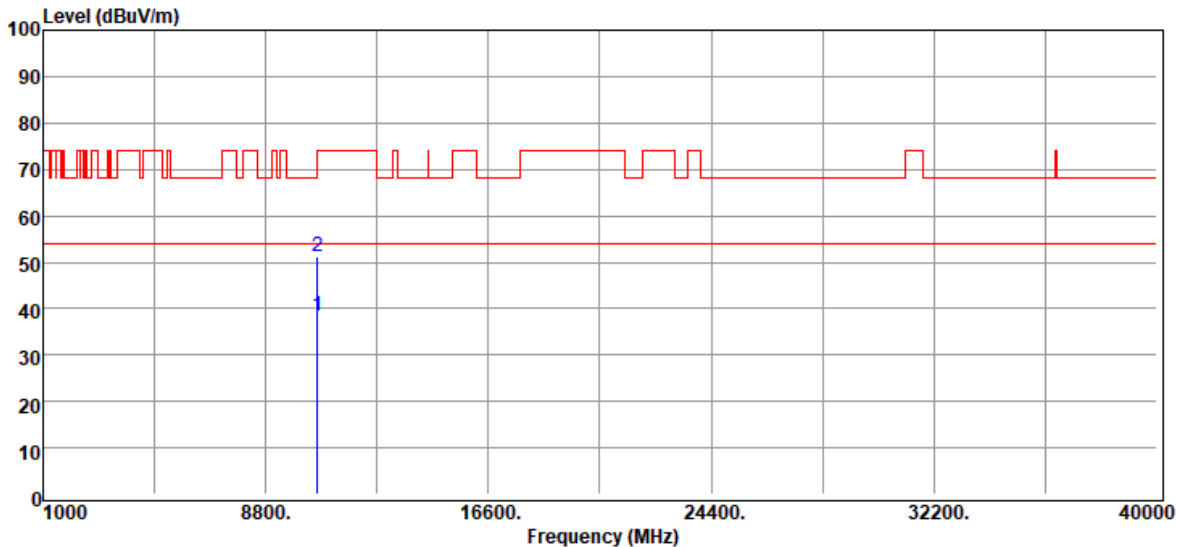
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.48	11.10	38.58	54.00	-15.42
10600.00	Peak	40.11	11.10	51.21	74.00	-22.79

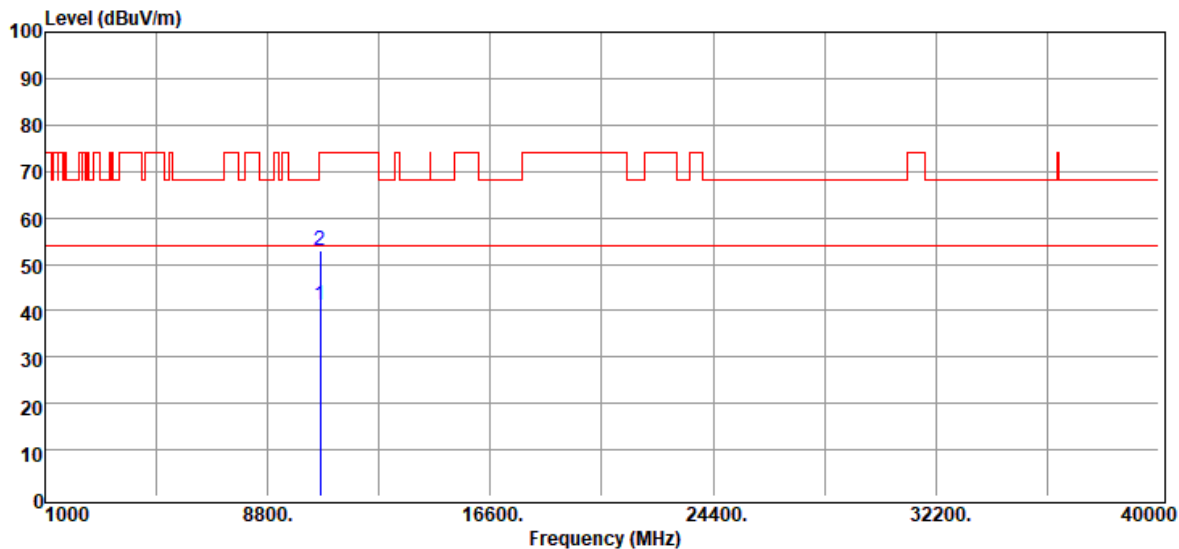
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :VERTICAL
Engineer :Kailin



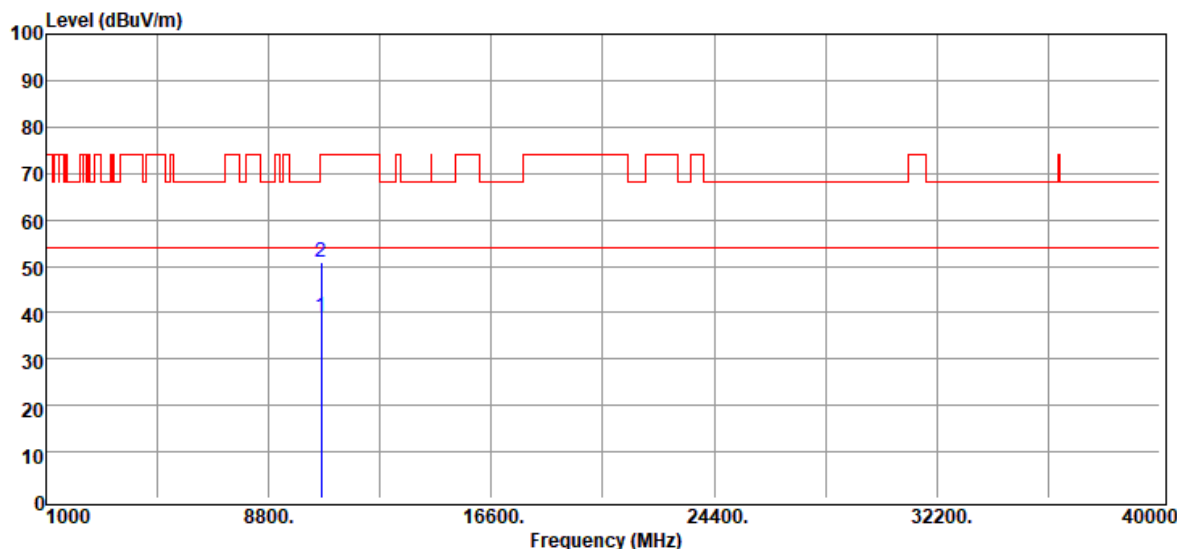
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	29.89	11.12	41.01	54.00	-12.99
10640.00	Peak	41.95	11.12	53.07	74.00	-20.93

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



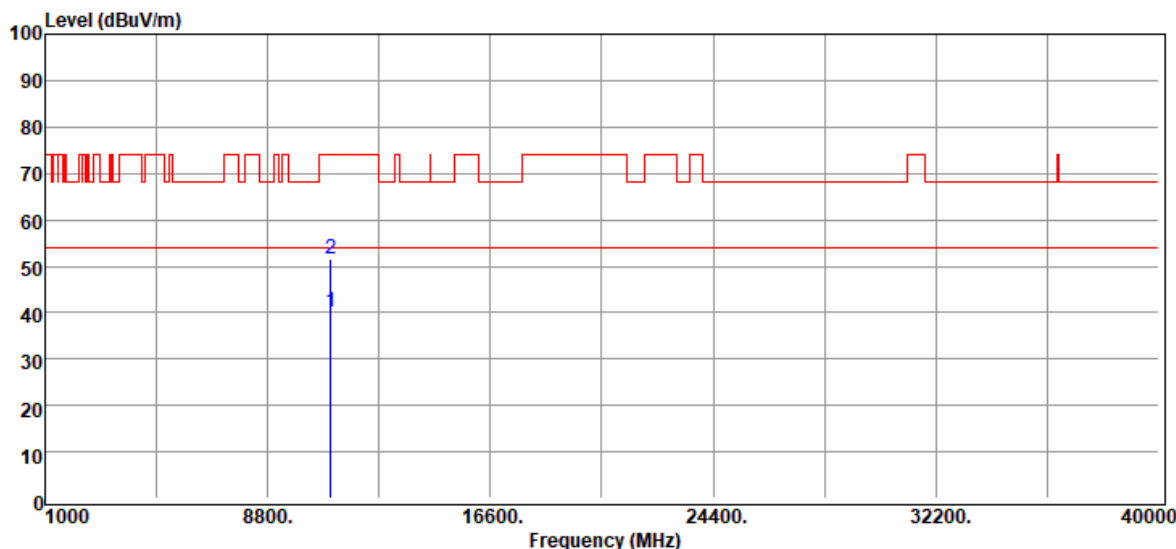
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.98	11.12	39.10	54.00	-14.90
10640.00	Peak	39.74	11.12	50.86	74.00	-23.14

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :VERTICAL
Engineer :Kailin



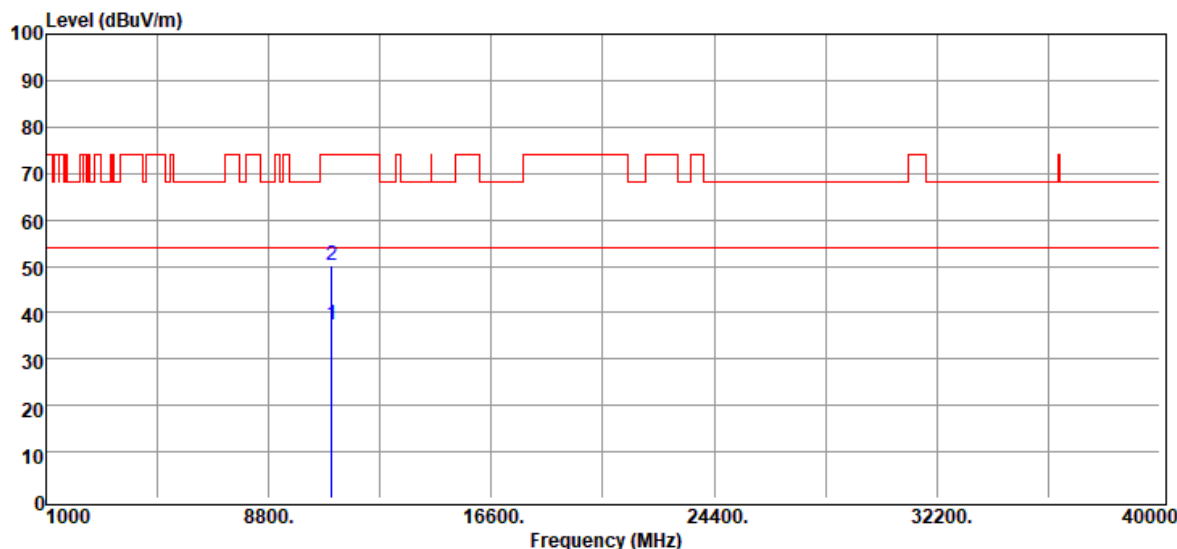
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	30.41	9.88	40.29	54.00	-13.71
11000.00	Peak	41.73	9.88	51.61	74.00	-22.39

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	27.48	9.88	37.36	54.00	-16.64
11000.00	Peak	40.26	9.88	50.14	74.00	-23.86

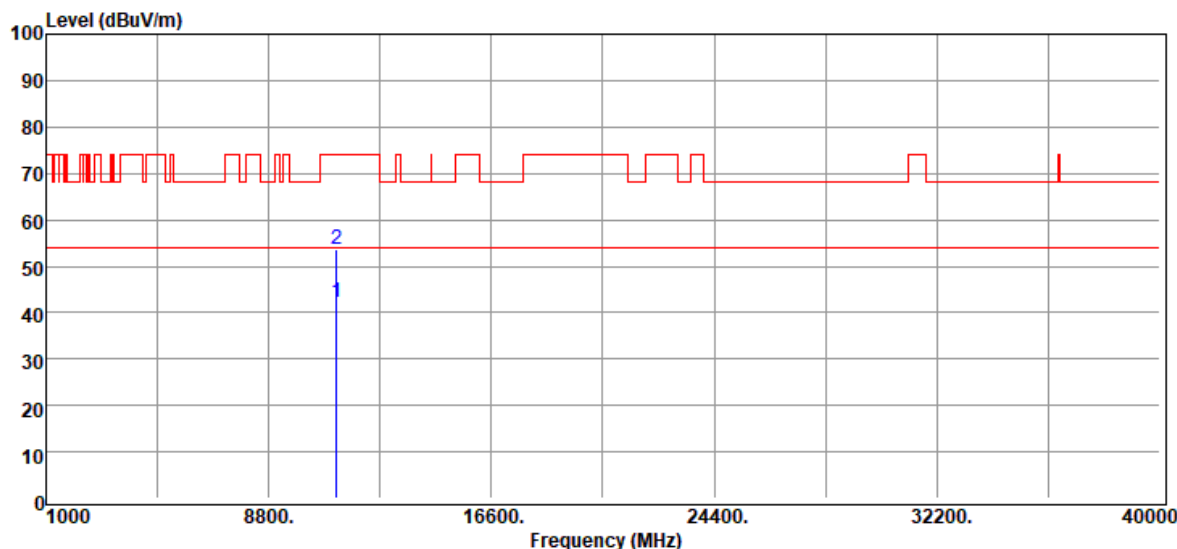
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	31.71	10.39	42.10	54.00	-11.90
11160.00	Peak	43.15	10.39	53.54	74.00	-20.46

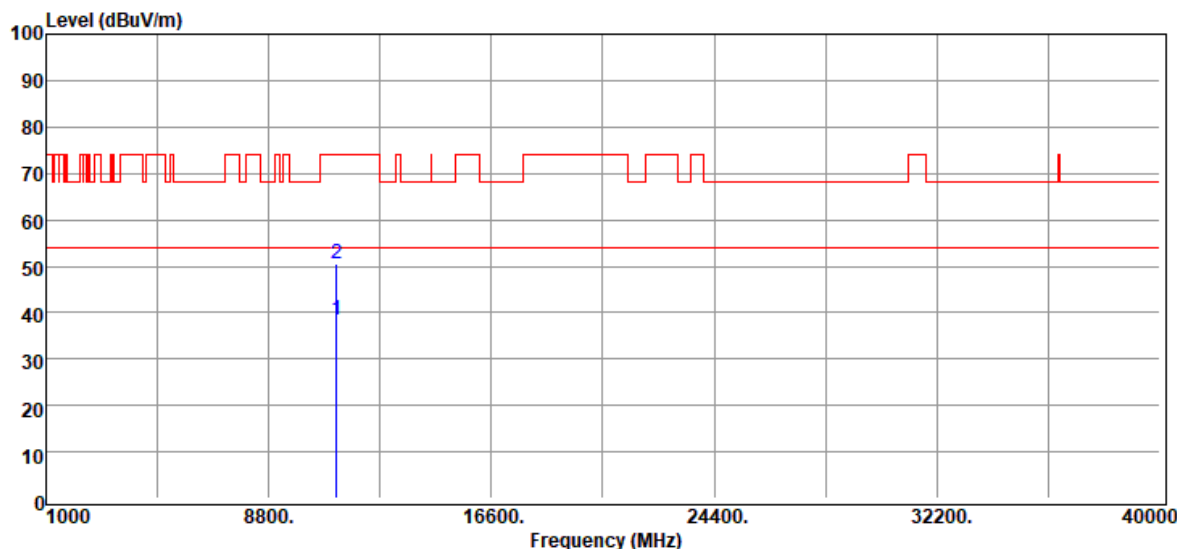
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.94	10.39	38.33	54.00	-15.67
11160.00	Peak	40.05	10.39	50.44	74.00	-23.56

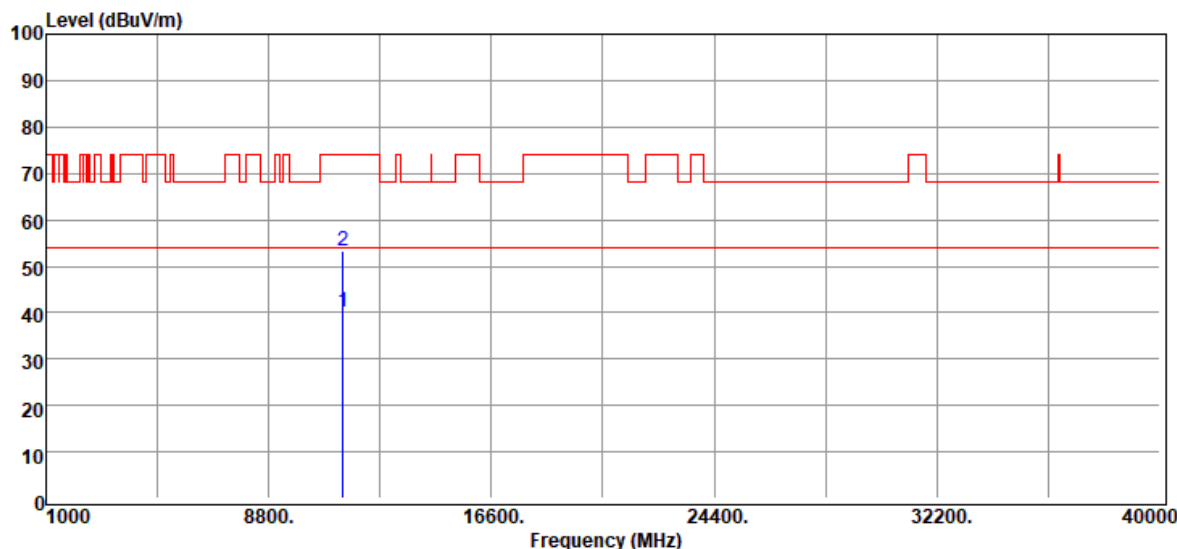
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	29.19	11.09	40.28	54.00	-13.72
11400.00	Peak	42.18	11.09	53.27	74.00	-20.73

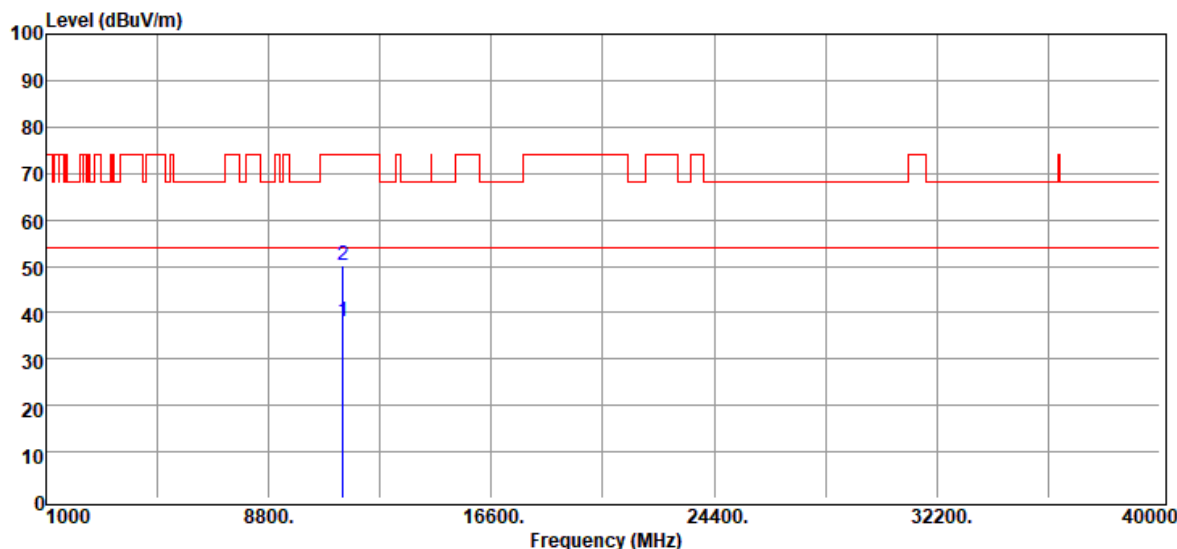
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	27.08	11.09	38.17	54.00	-15.83
11400.00	Peak	38.95	11.09	50.04	74.00	-23.96

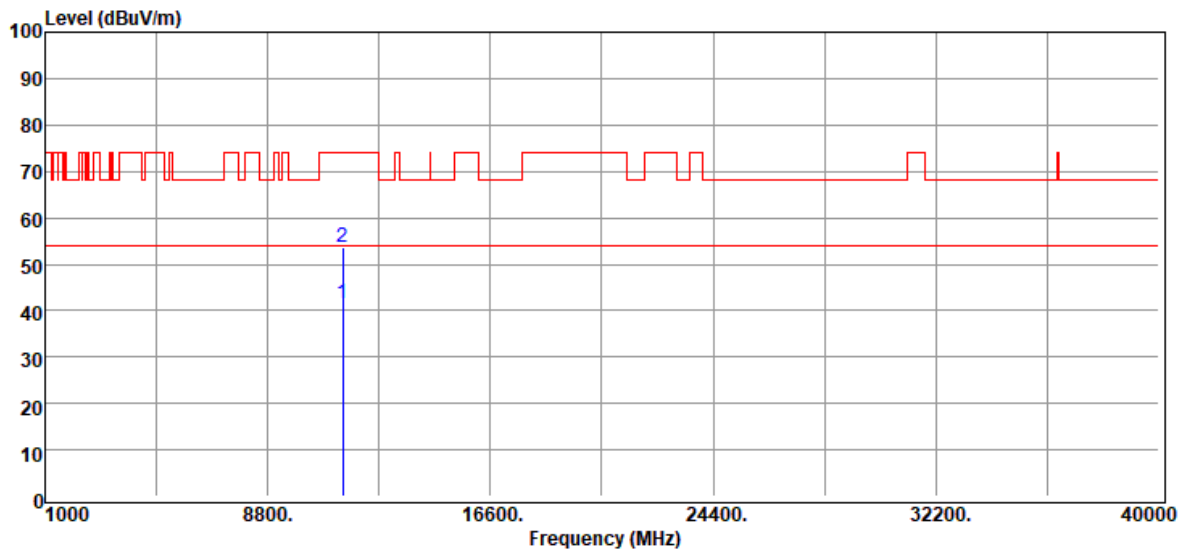
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



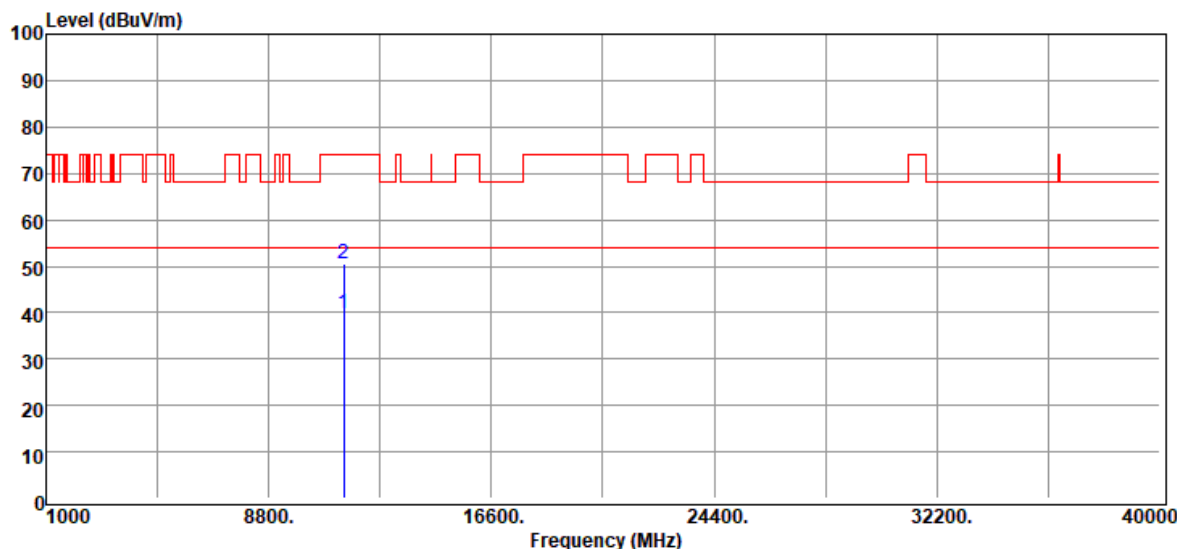
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	29.88	11.81	41.69	54.00	-12.31
11440.00	Peak	41.78	11.81	53.59	74.00	-20.41

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Report Number :E2/2020/50133
 Operation Mode :802.11n20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.4/62
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



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	28.00	11.81	39.81	54.00	-14.19
11440.00	Peak	38.67	11.81	50.48	74.00	-23.52

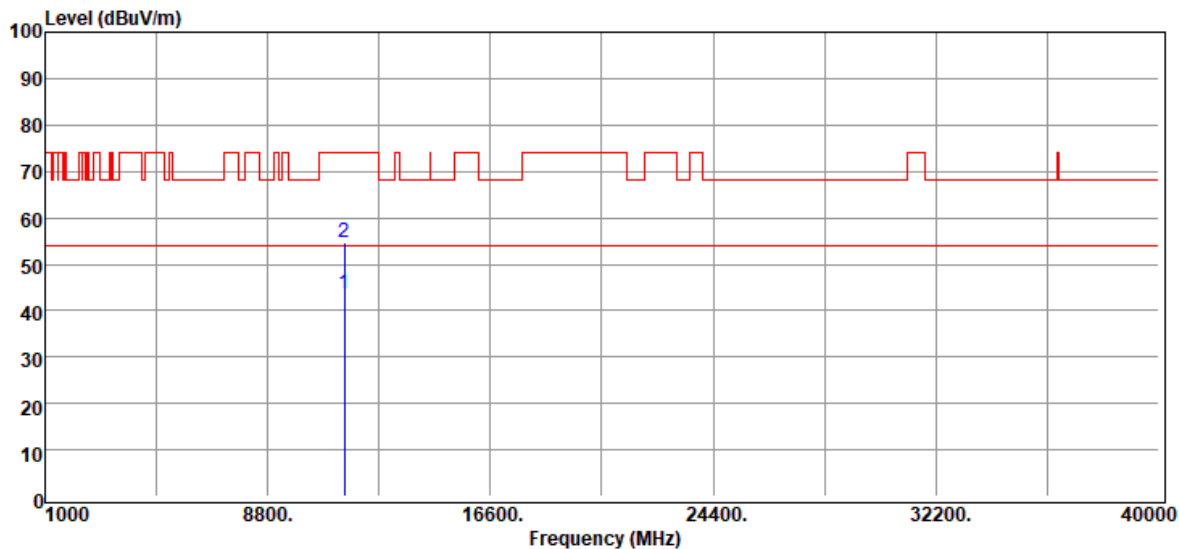
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



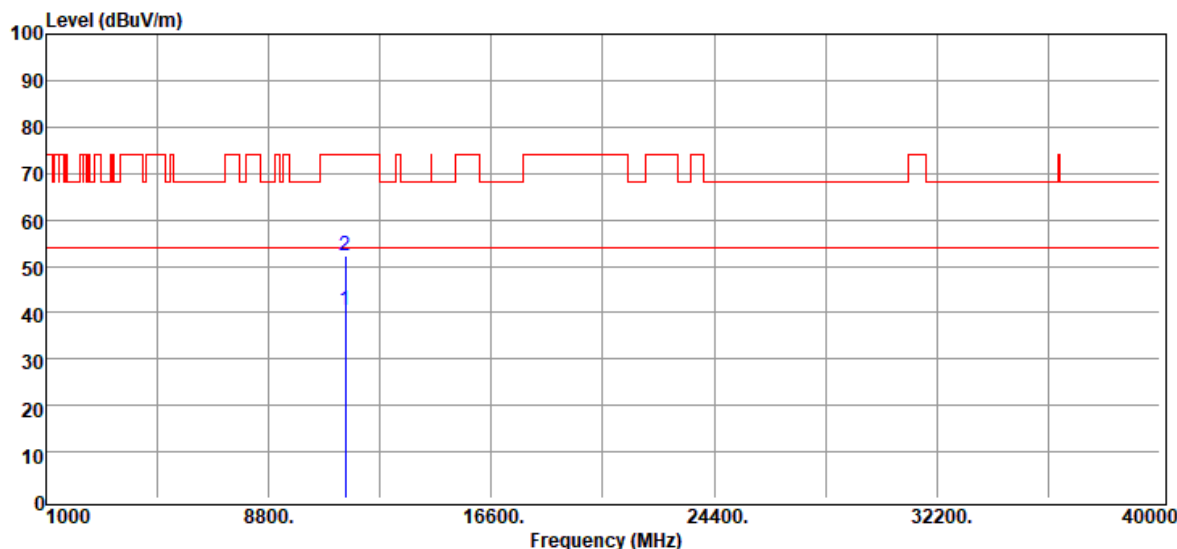
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	30.77	12.69	43.46	54.00	-10.54
11490.00	Peak	41.92	12.69	54.61	74.00	-19.39

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.80	12.69	40.49	54.00	-13.51
11490.00	Peak	39.61	12.69	52.30	74.00	-21.70

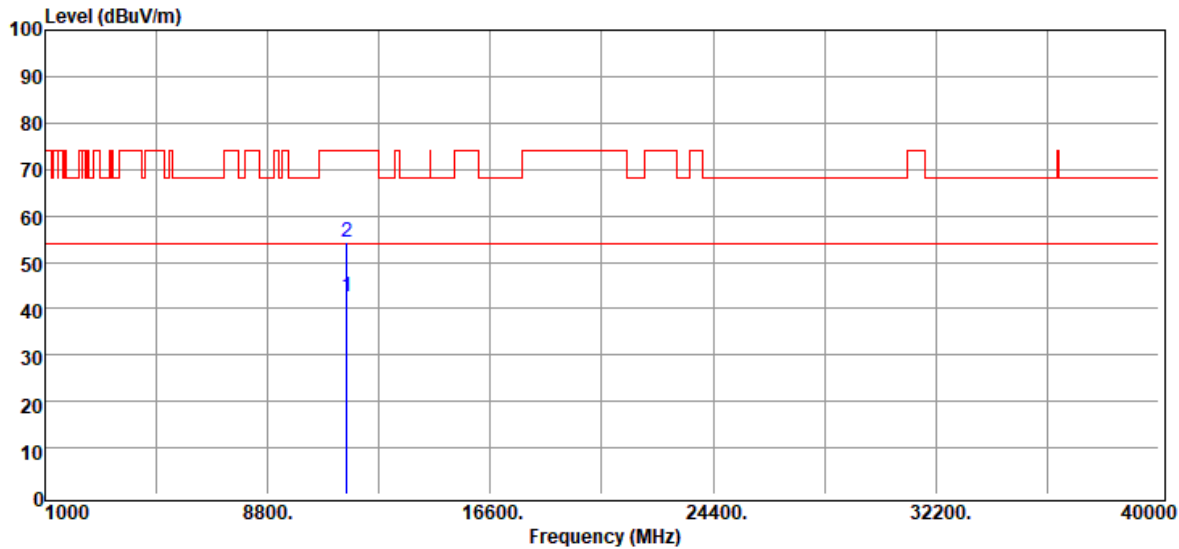
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	30.07	12.38	42.45	54.00	-11.55
11570.00	Peak	41.80	12.38	54.18	74.00	-19.82

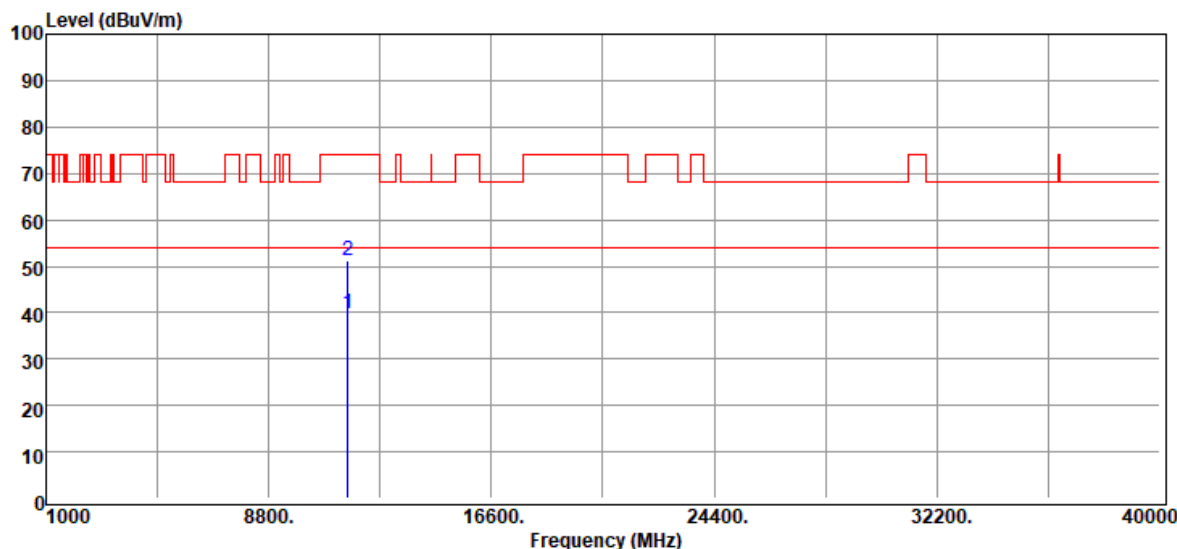
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	27.44	12.38	39.82	54.00	-14.18
11570.00	Peak	38.70	12.38	51.08	74.00	-22.92

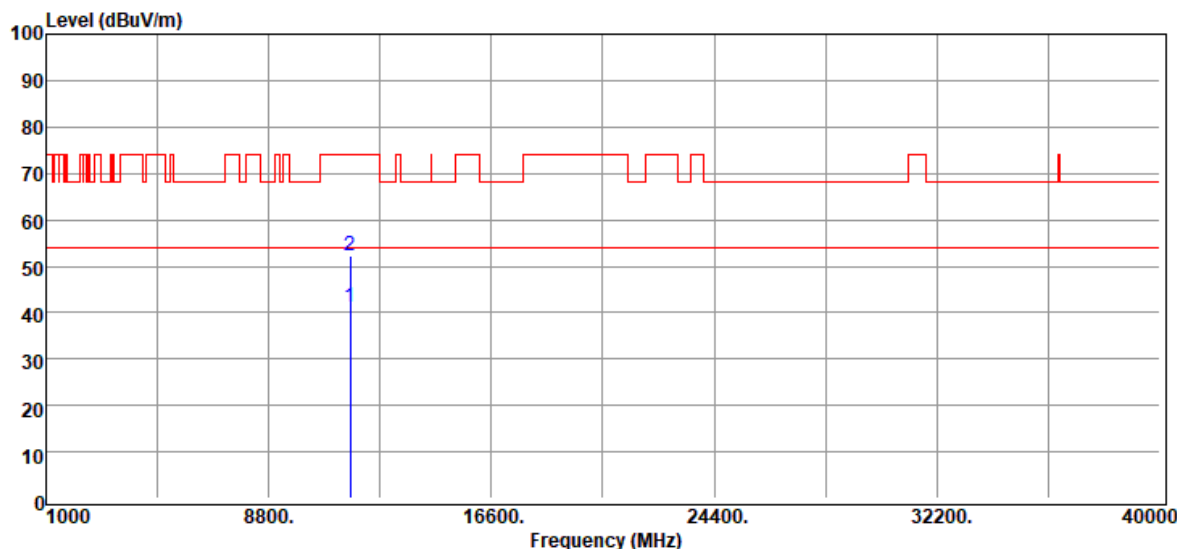
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	29.88	11.21	41.09	54.00	-12.91
11650.00	Peak	40.93	11.21	52.14	74.00	-21.86

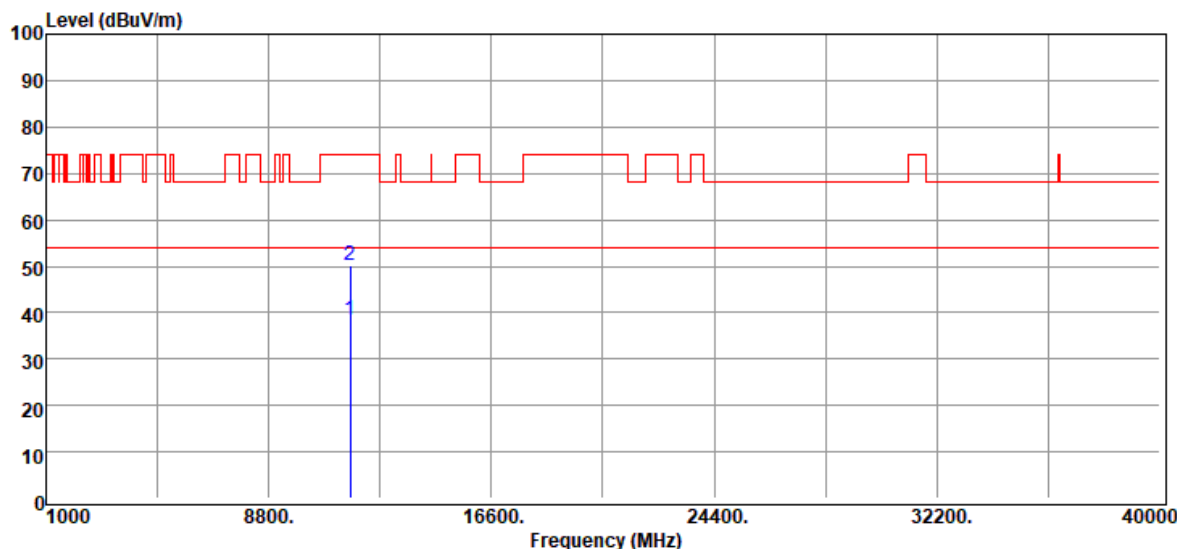
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.03	11.21	38.24	54.00	-15.76
11650.00	Peak	38.79	11.21	50.00	74.00	-24.00

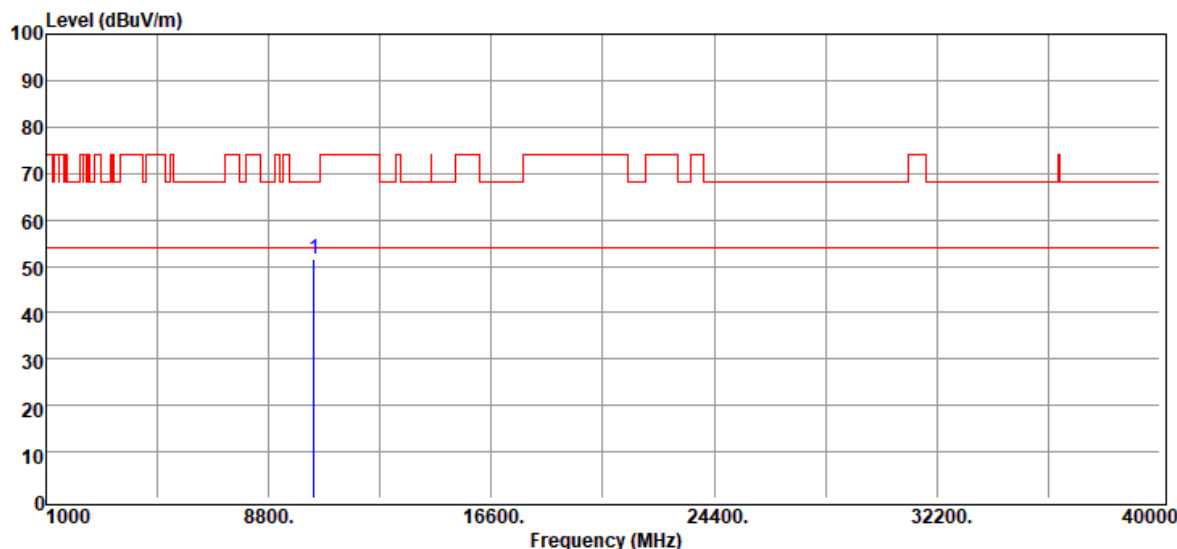
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	40.88	10.57	51.45	68.20	-16.75

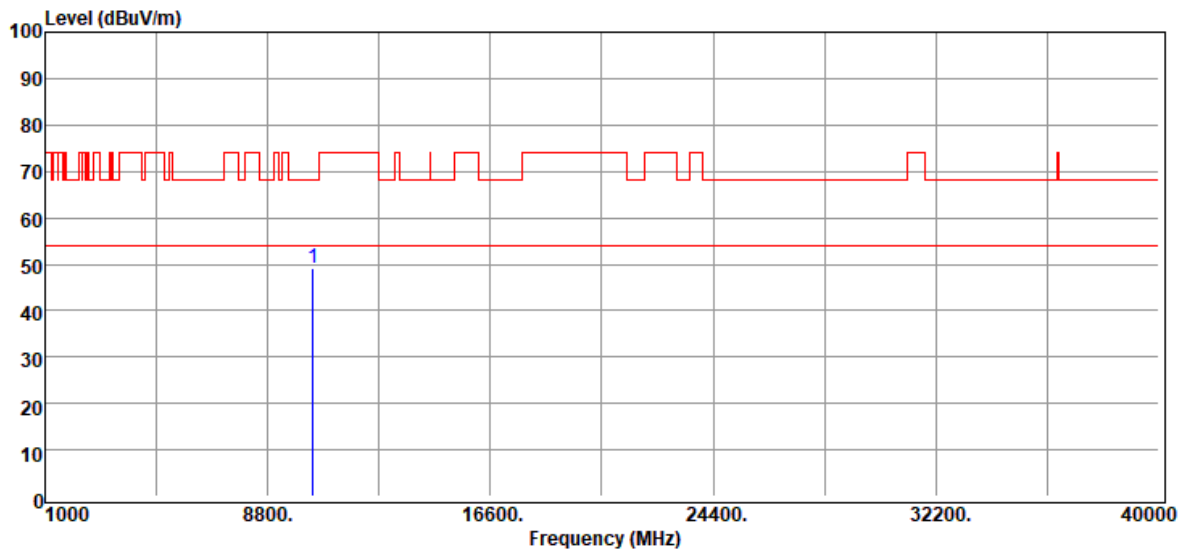
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



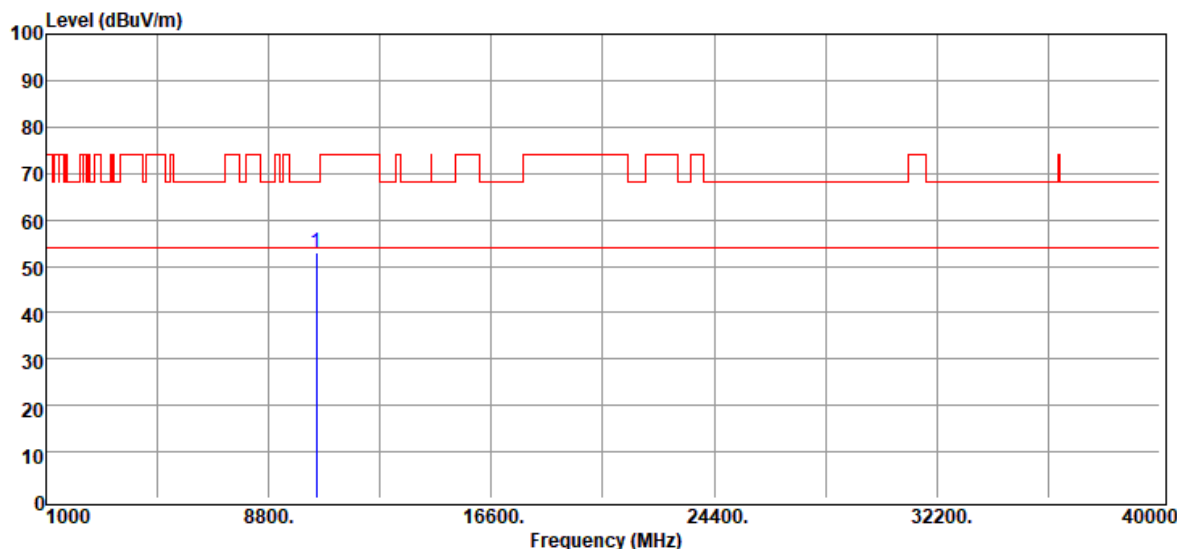
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	38.43	10.57	49.00	68.20	-19.20

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	41.70	11.10	52.80	68.20	-15.40

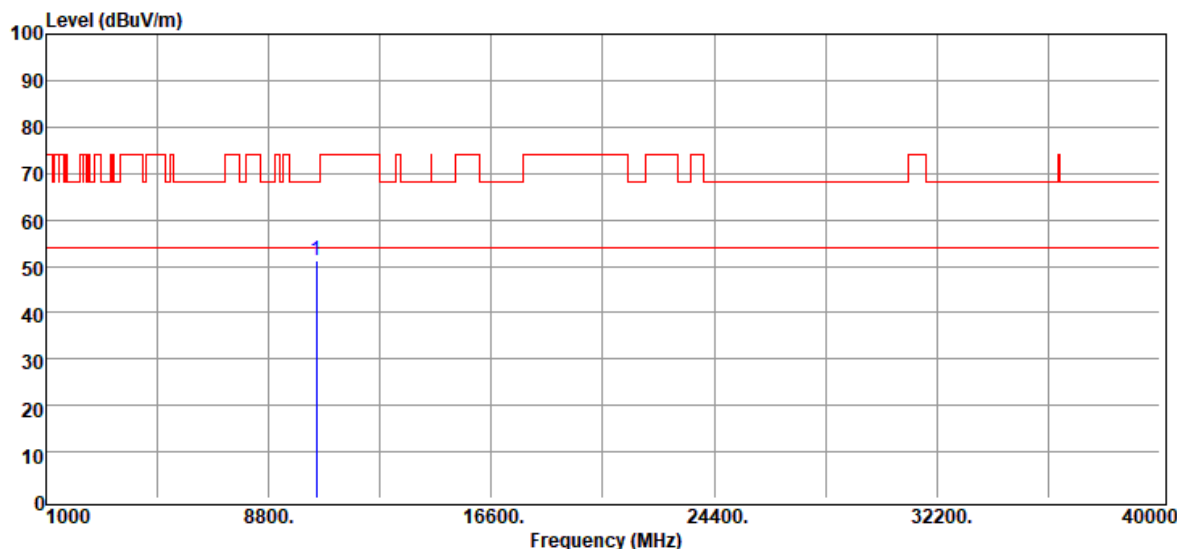
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	40.10	11.10	51.20	68.20	-17.00

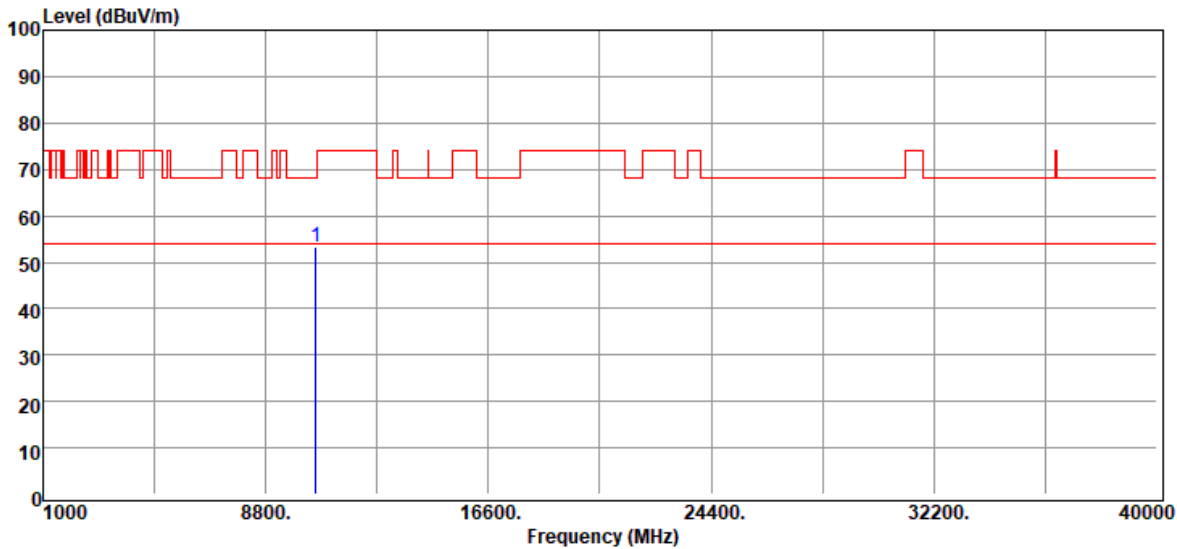
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



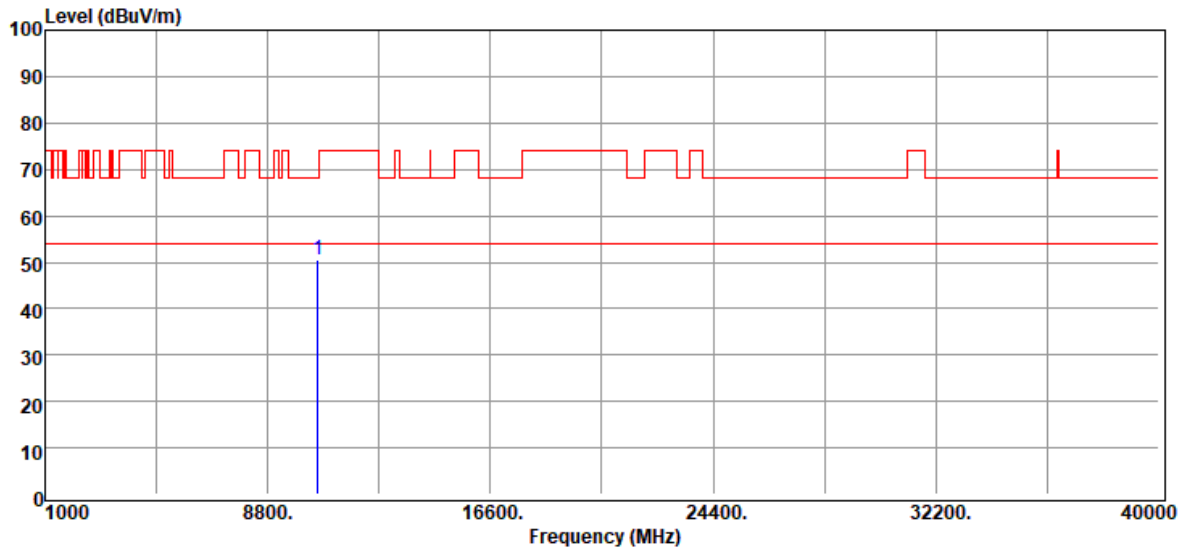
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	41.95	11.20	53.15	68.20	-15.05

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	39.41	11.20	50.61	68.20	-17.59

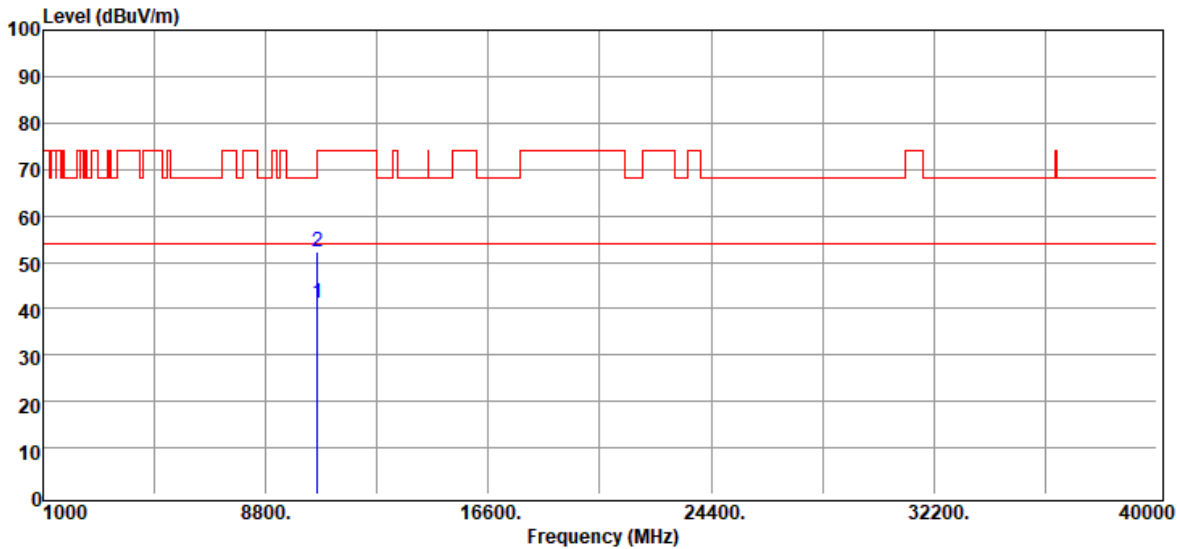
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



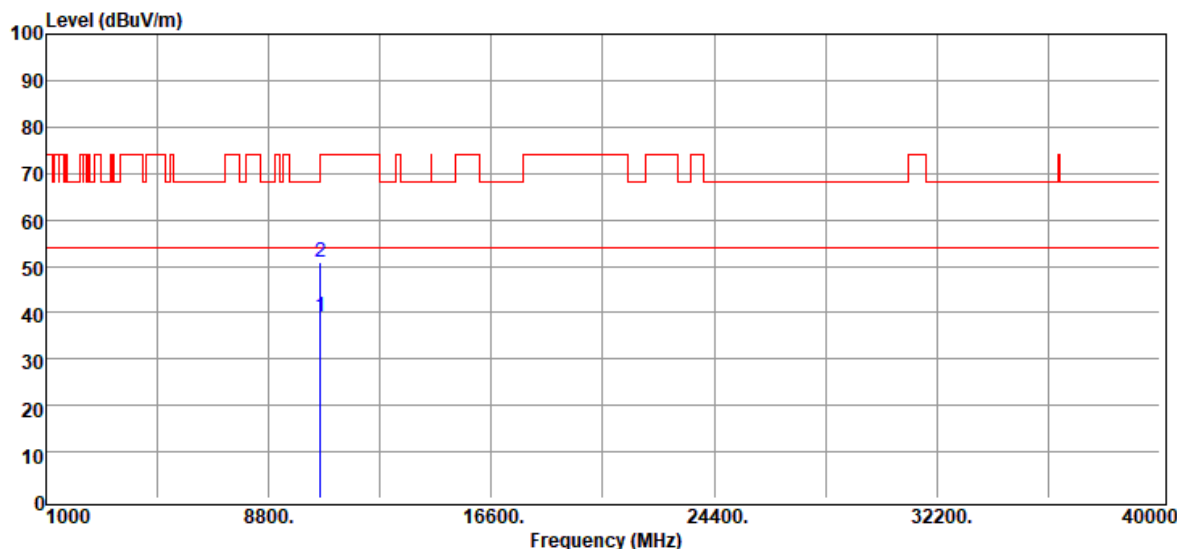
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	29.99	11.10	41.09	54.00	-12.91
10620.00	Peak	41.23	11.10	52.33	74.00	-21.67

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Report Number :E2/2020/50133
 Operation Mode :802.11n40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	27.85	11.10	38.95	54.00	-15.05
10620.00	Peak	39.72	11.10	50.82	74.00	-23.18

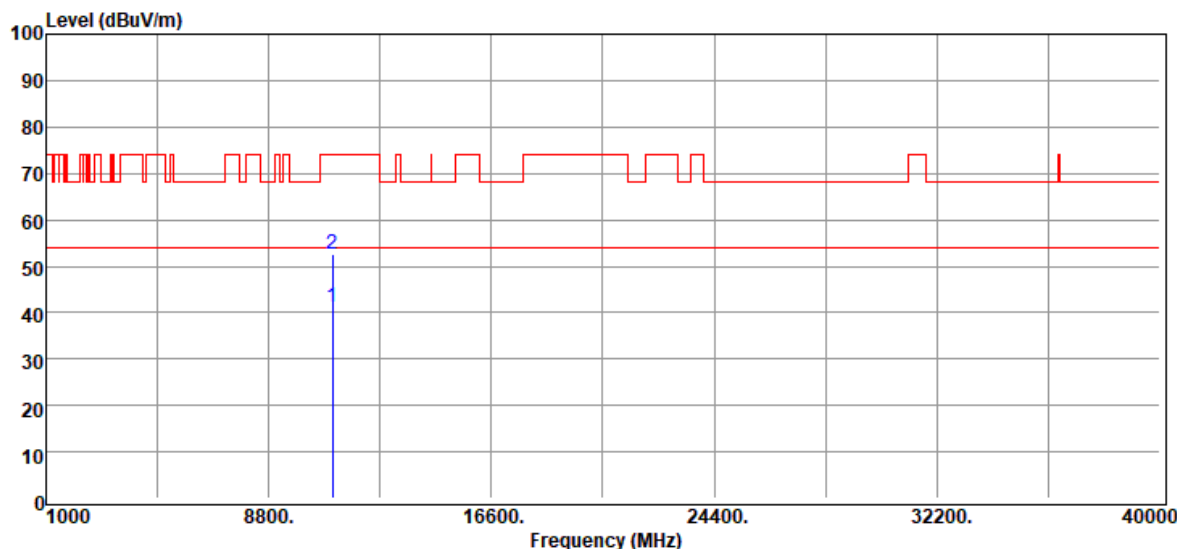
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	31.25	9.98	41.23	54.00	-12.77
11020.00	Peak	42.61	9.98	52.59	74.00	-21.41

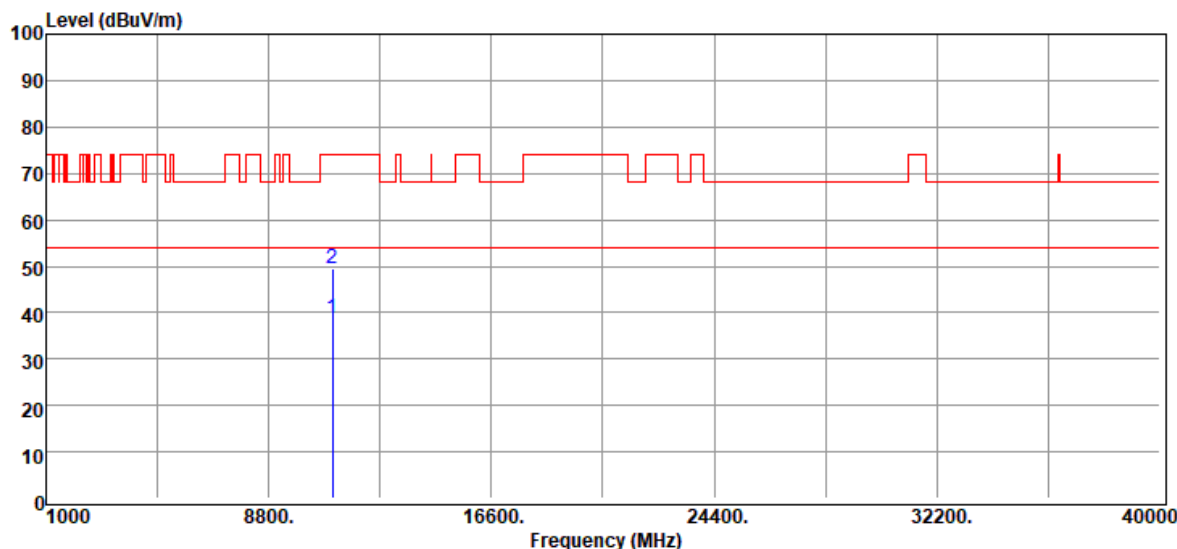
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	28.71	9.98	38.69	54.00	-15.31
11020.00	Peak	39.41	9.98	49.39	74.00	-24.61

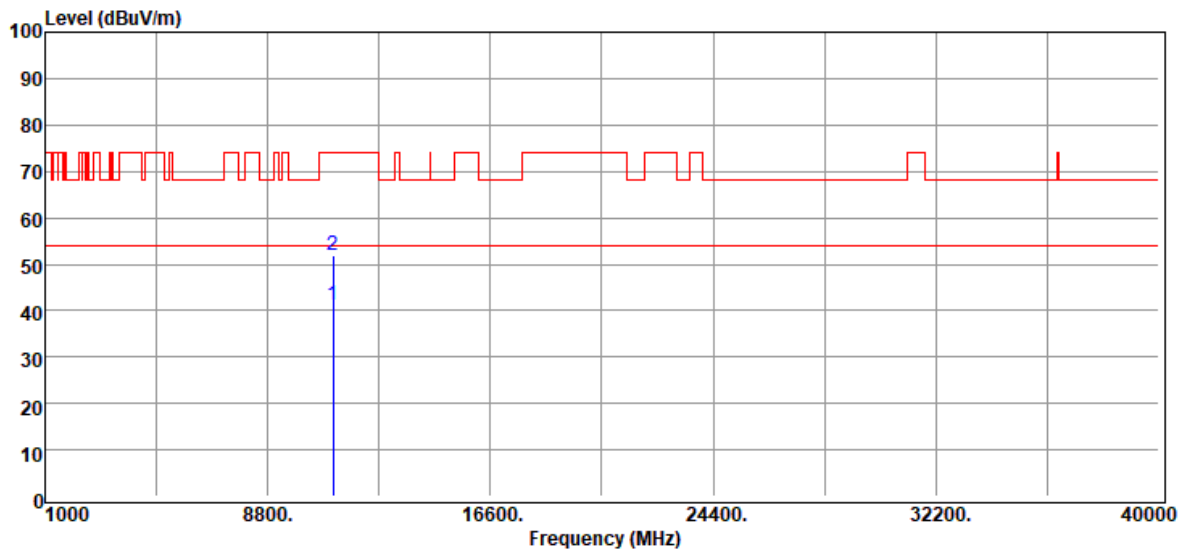
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



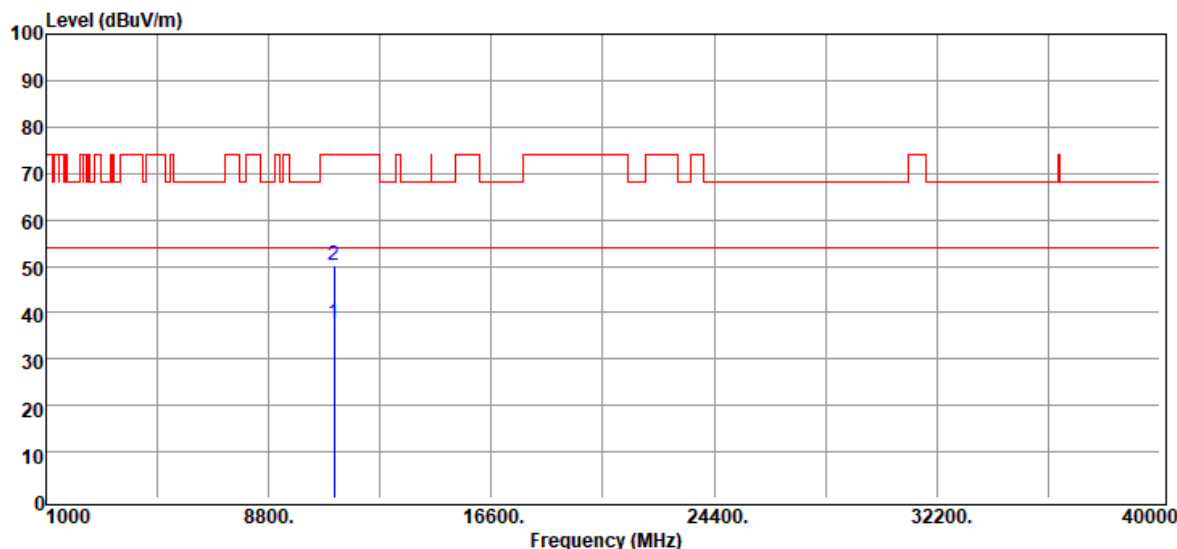
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	30.81	10.40	41.21	54.00	-12.79
11100.00	Peak	41.52	10.40	51.92	74.00	-22.08

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	27.48	10.40	37.88	54.00	-16.12
11100.00	Peak	39.85	10.40	50.25	74.00	-23.75

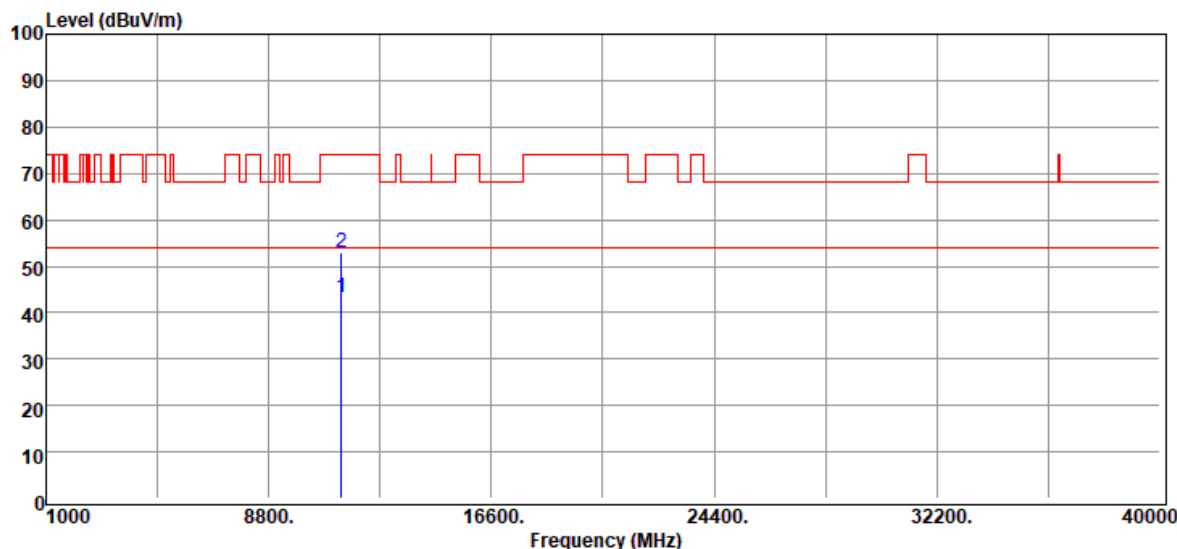
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	31.92	11.26	43.18	54.00	-10.82
11340.00	Peak	41.59	11.26	52.85	74.00	-21.15

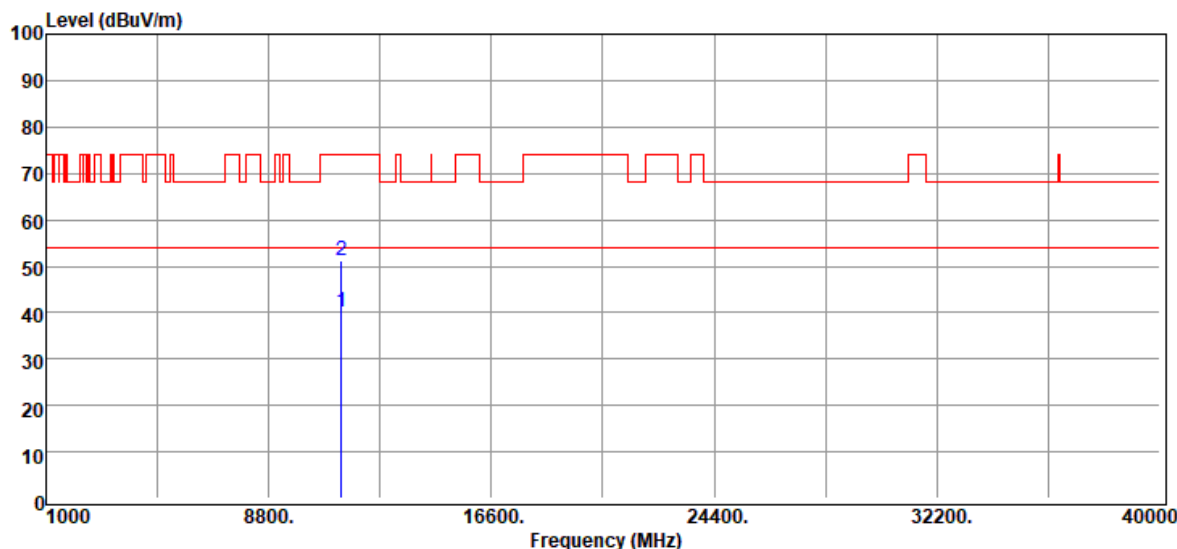
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	28.88	11.26	40.14	54.00	-13.86
11340.00	Peak	39.85	11.26	51.11	74.00	-22.89

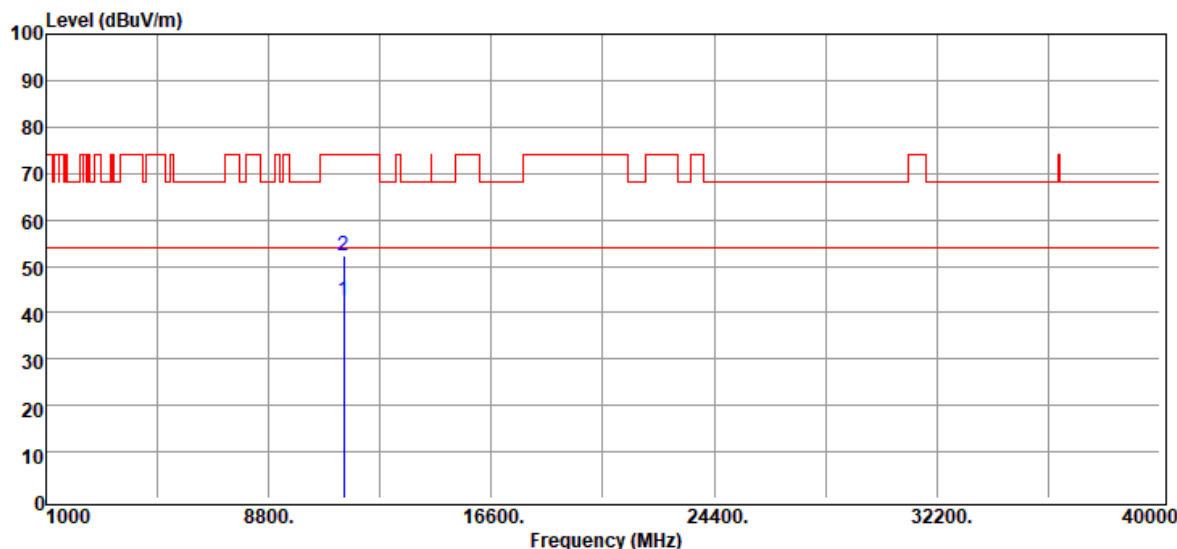
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	30.95	11.45	42.40	54.00	-11.60
11420.00	Peak	40.97	11.45	52.42	74.00	-21.58

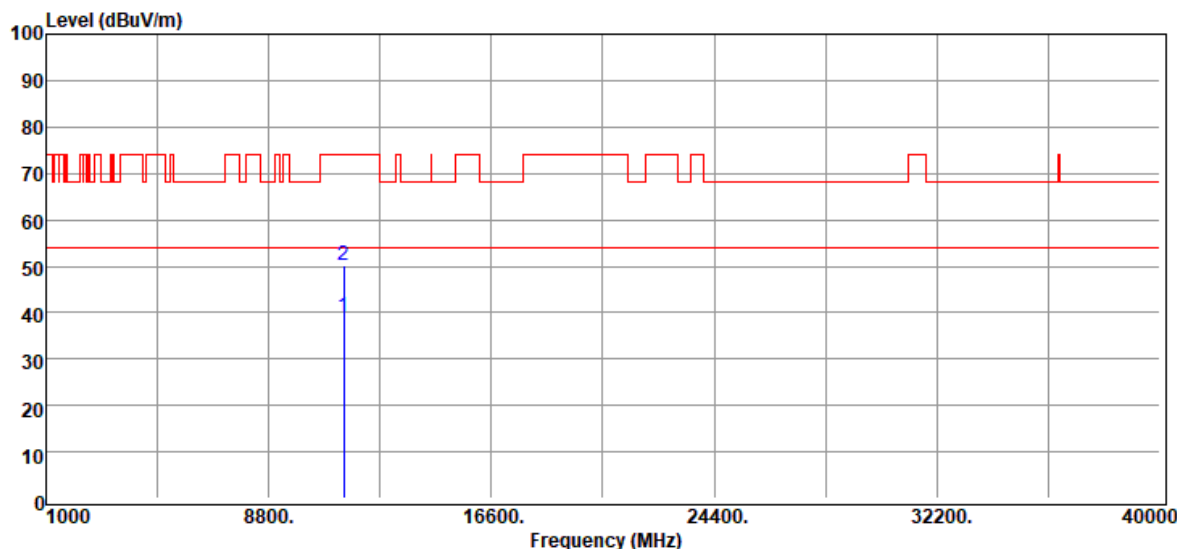
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Report Number :E2/2020/50133
 Operation Mode :802.11n40 / Band 3-4
 Test Frequency :5710 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.2/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	27.49	11.45	38.94	54.00	-15.06
11420.00	Peak	38.66	11.45	50.11	74.00	-23.89

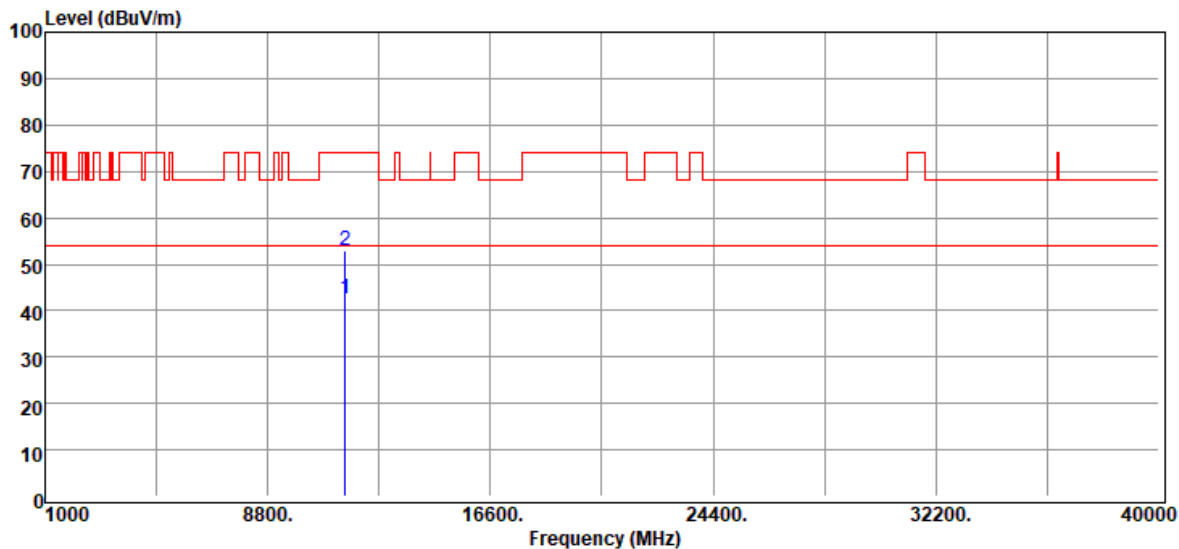
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :VERTICAL
Engineer :Kailin



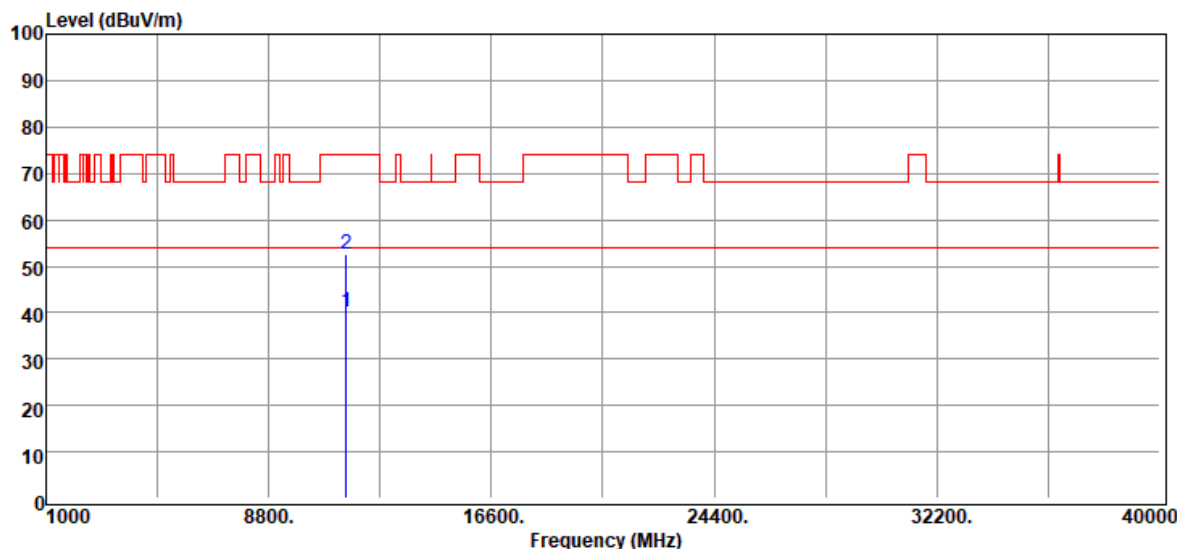
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	29.71	12.80	42.51	54.00	-11.49
11510.00	Peak	40.22	12.80	53.02	74.00	-20.98

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	27.41	12.80	40.21	54.00	-13.79
11510.00	Peak	39.71	12.80	52.51	74.00	-21.49

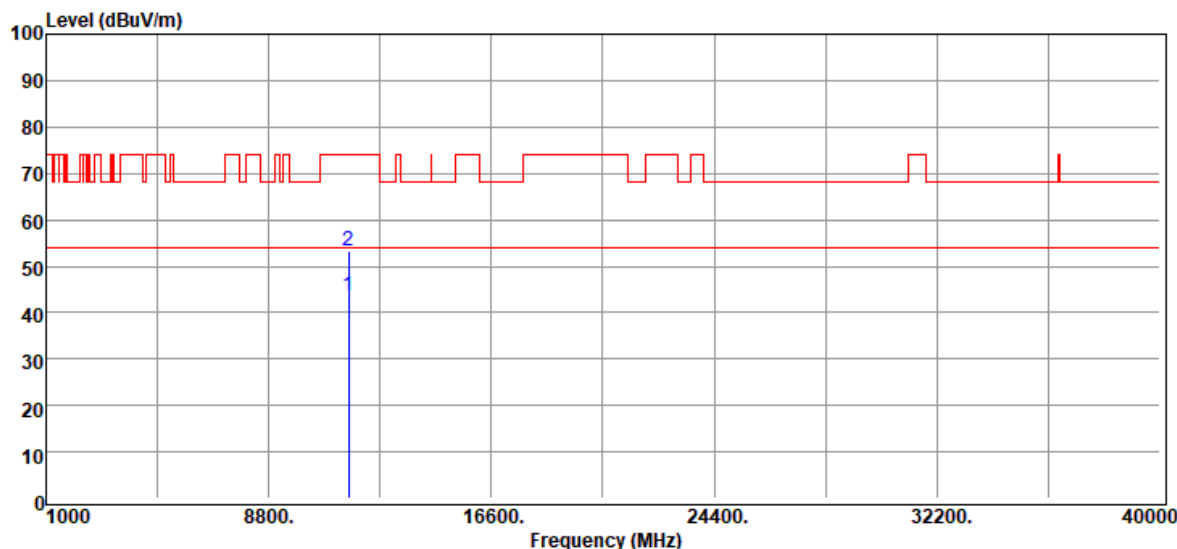
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	31.28	12.24	43.52	54.00	-10.48
11590.00	Peak	41.11	12.24	53.35	74.00	-20.65

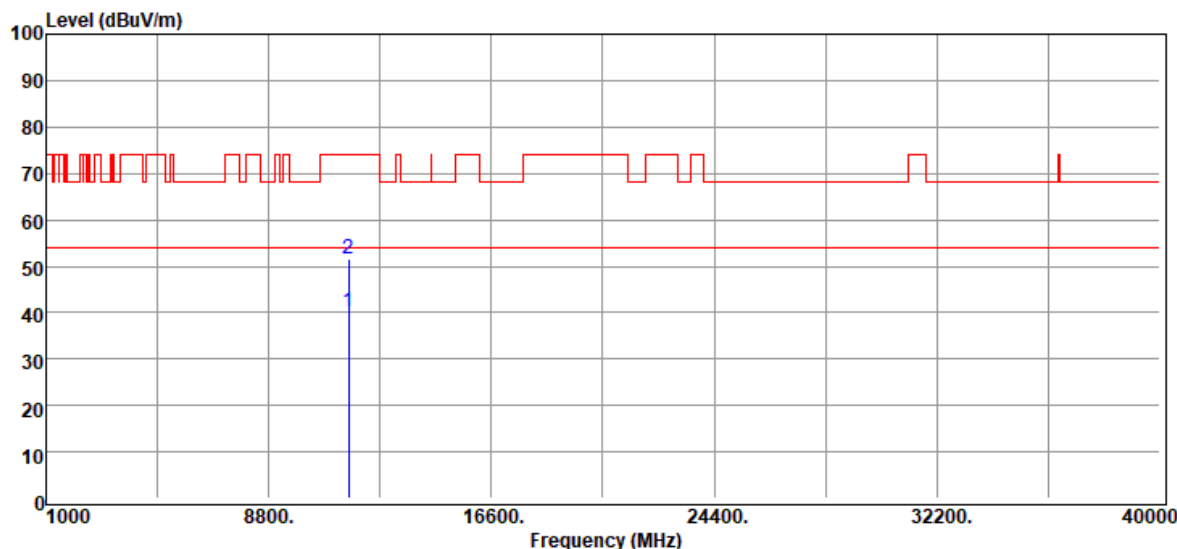
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	27.82	12.24	40.06	54.00	-13.94
11590.00	Peak	39.25	12.24	51.49	74.00	-22.51

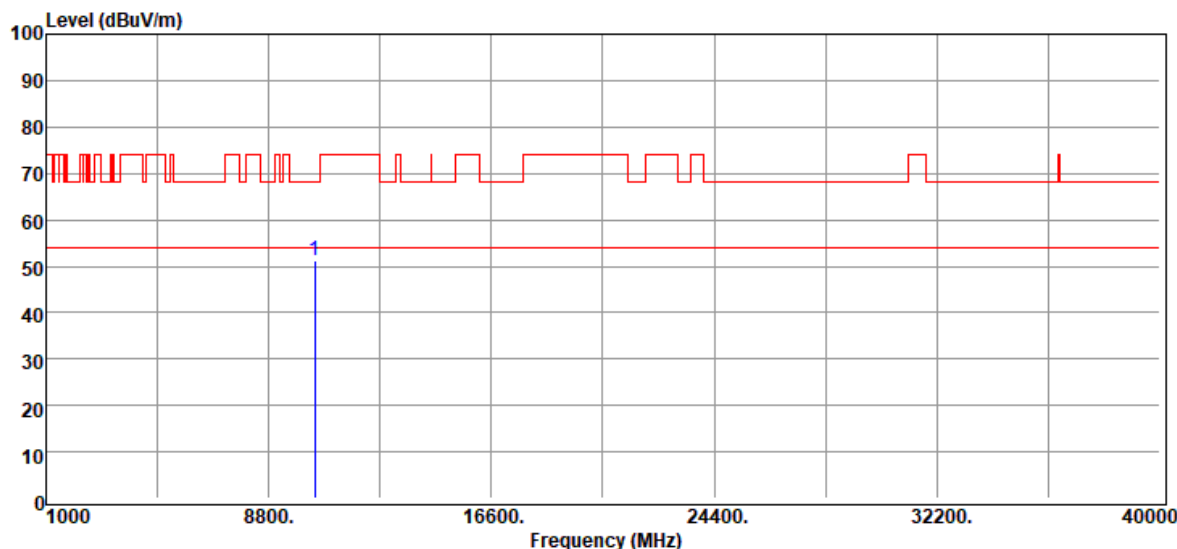
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :VERTICAL
Engineer :Kailin



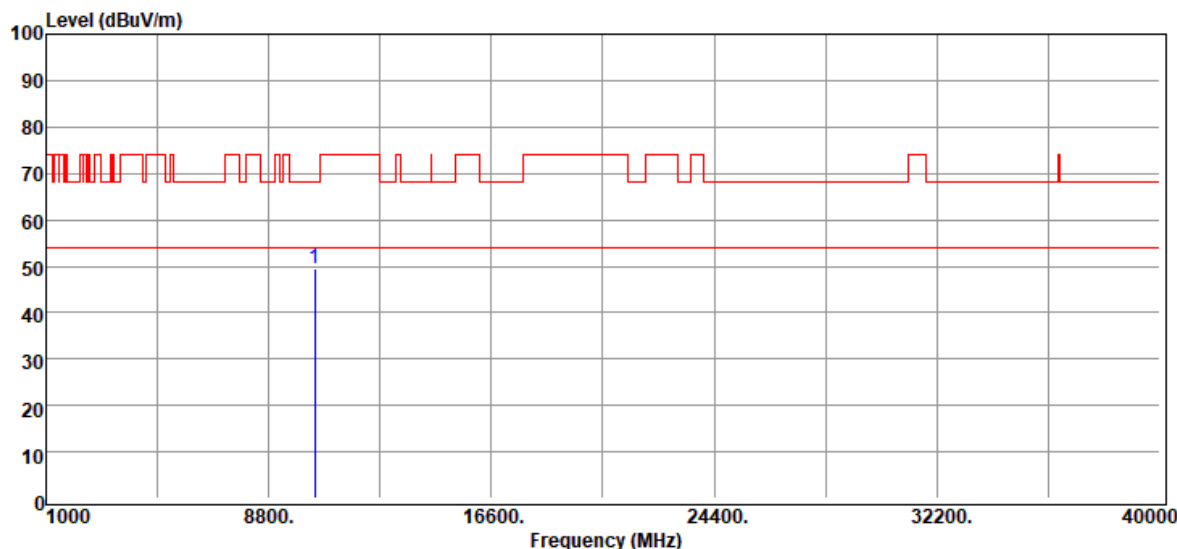
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	40.36	10.92	51.28	68.20	-16.92

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 1	Test Date	:2020-06-22
Test Frequency	:5210 MHz	Temp./Humi.	:24.2/64
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	38.71	10.92	49.63	68.20	-18.57

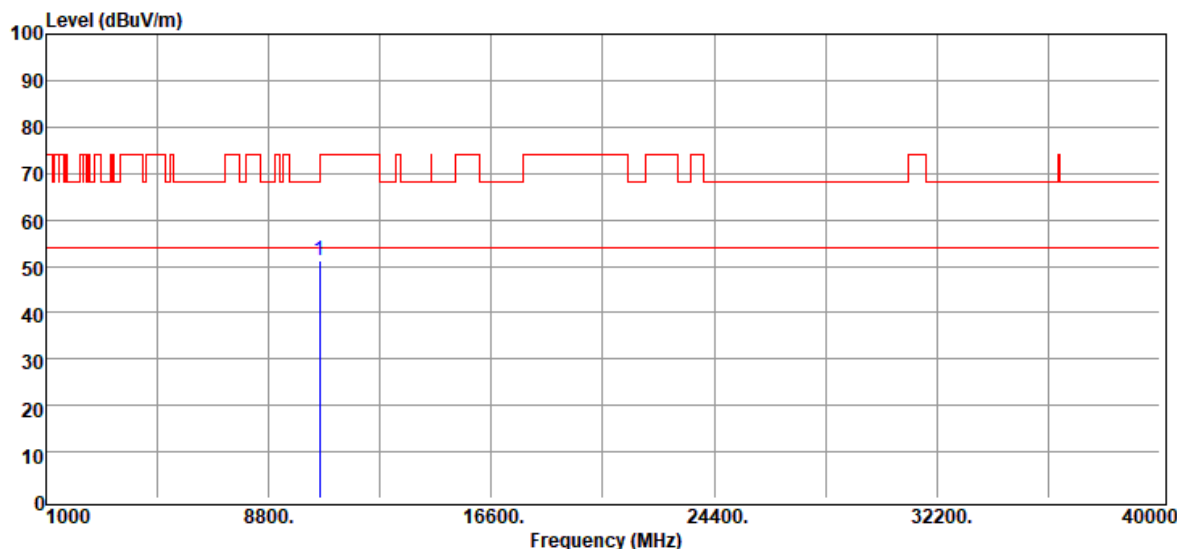
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.2/64
Antenna Pol. :VERTICAL
Engineer :Kailin



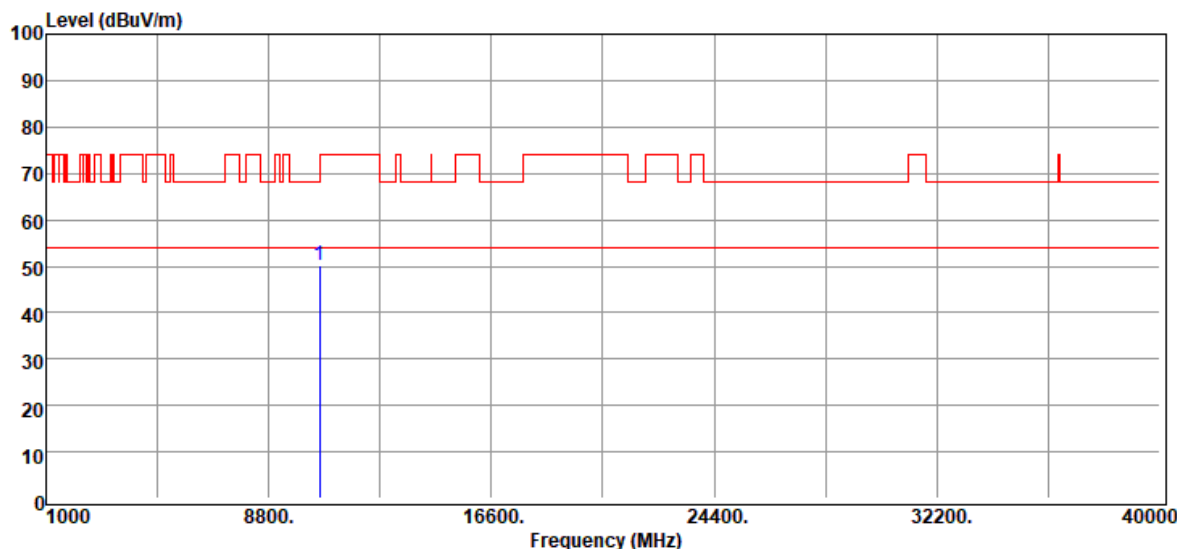
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	40.10	11.14	51.24	68.20	-16.96

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 2	Test Date	:2020-06-22
Test Frequency	:5290 MHz	Temp./Humi.	:24.2/64
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	39.04	11.14	50.18	68.20	-18.02

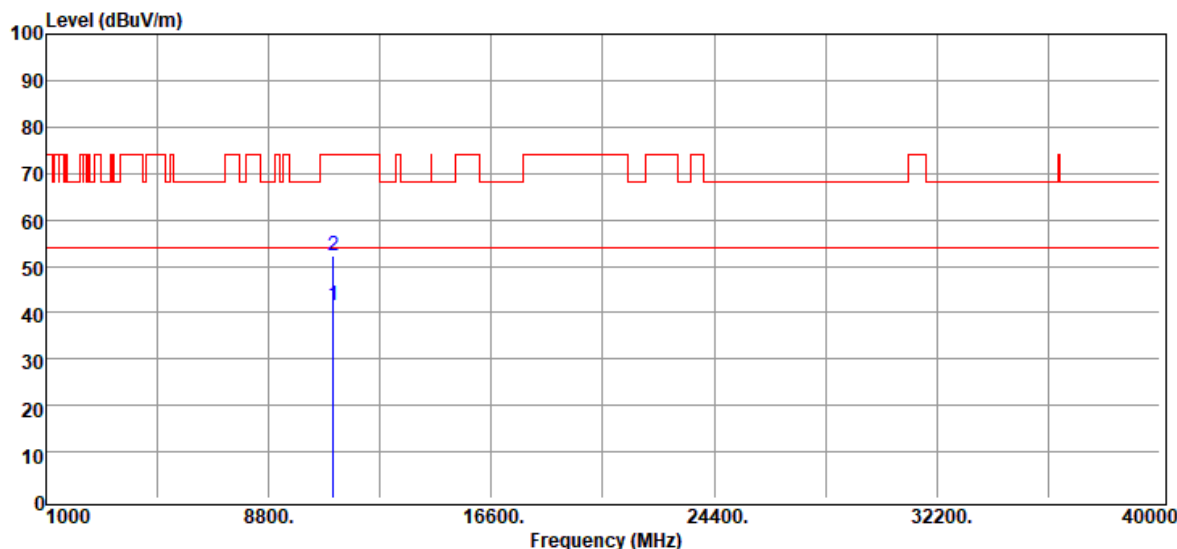
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.1/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	31.44	10.20	41.64	54.00	-12.36
11060.00	Peak	41.88	10.20	52.08	74.00	-21.92

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Report Number :E2/2020/50133

Operation Mode :802.11ac80 / Band 3

Test Frequency :5530 MHz

Test Mode :TX CH LOW

EUT Pol :E2 Plan

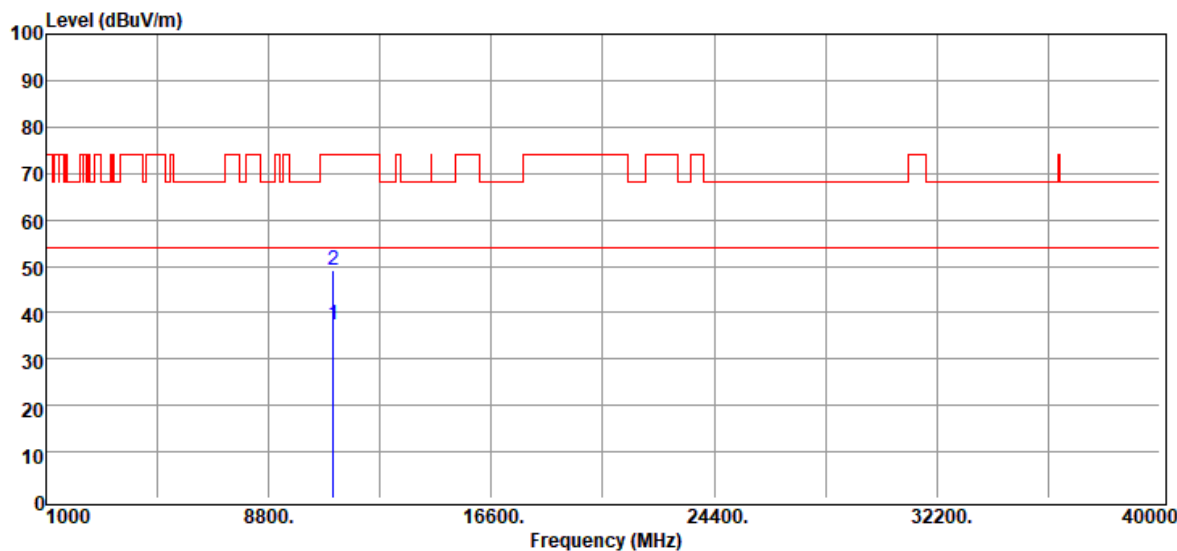
Test Site :966 Chamber D

Test Date :2020-06-22

Temp./Humi. :24.1/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	27.34	10.20	37.54	54.00	-16.46
11060.00	Peak	38.78	10.20	48.98	74.00	-25.02

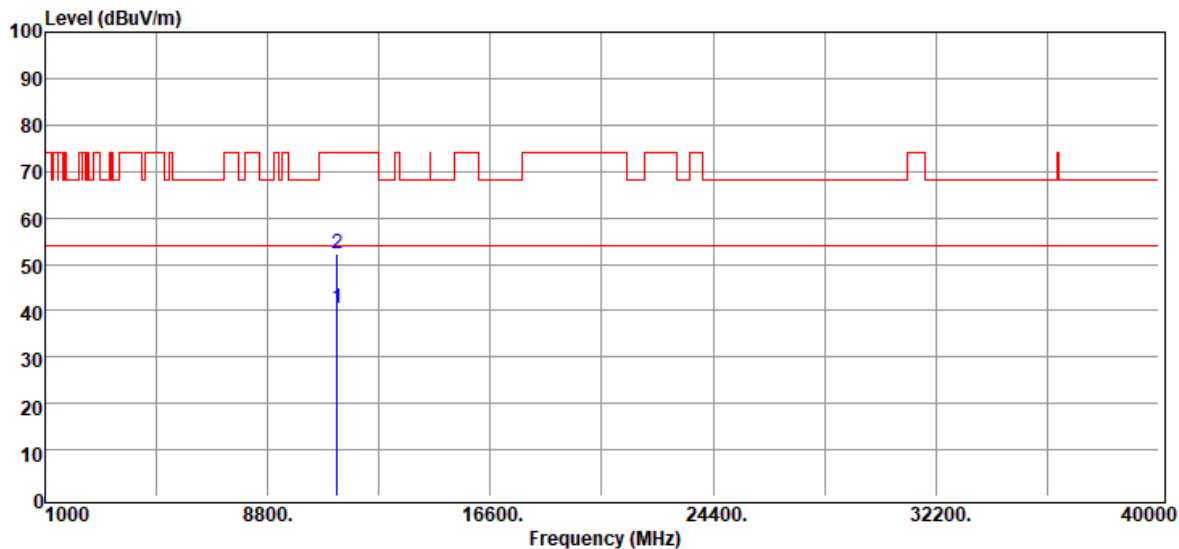
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.1/63
Antenna Pol. :VERTICAL
Engineer :Kailin

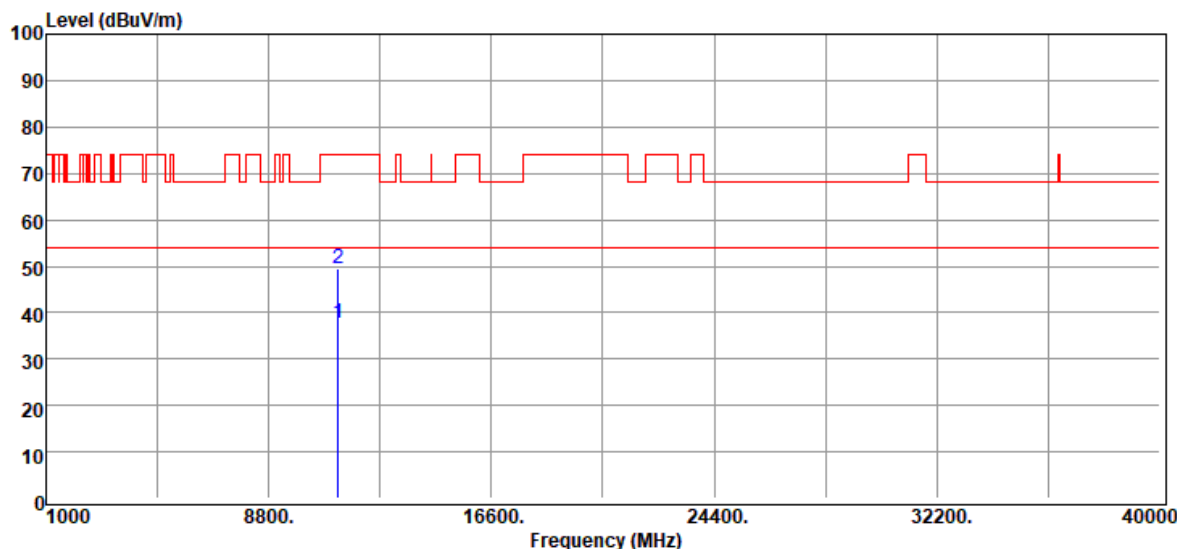


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	29.94	10.59	40.53	54.00	-13.47
11220.00	Peak	41.72	10.59	52.31	74.00	-21.69

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2020-06-22
Test Frequency	:5610 MHz	Temp./Humi.	:24.1/63
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	27.15	10.59	37.74	54.00	-16.26
11220.00	Peak	38.77	10.59	49.36	74.00	-24.64

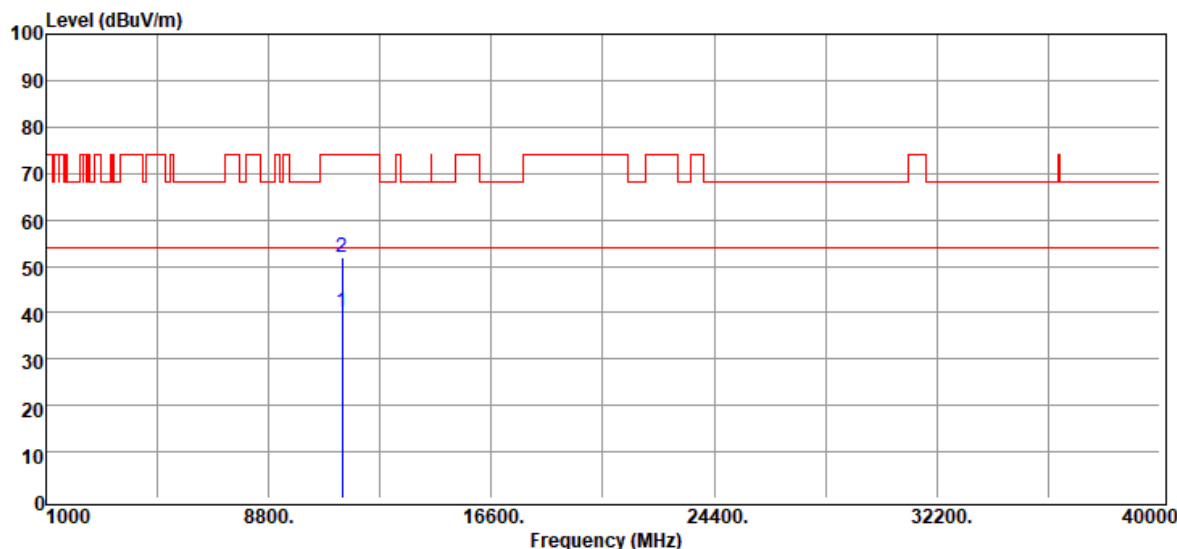
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.1/63
Antenna Pol. :VERTICAL
Engineer :Kailin



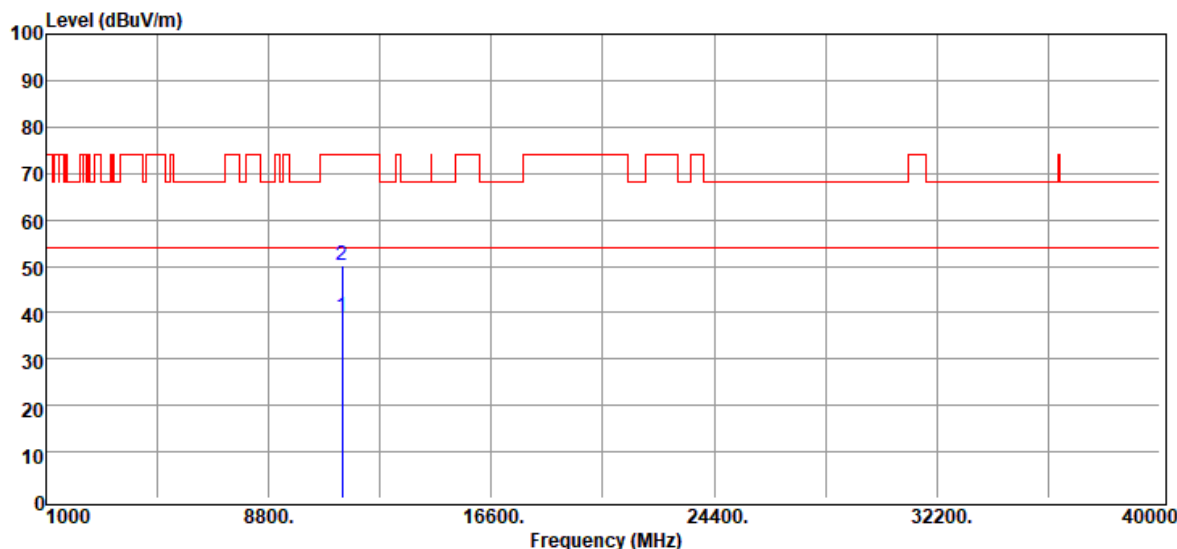
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	29.04	11.15	40.19	54.00	-13.81
11380.00	Peak	40.86	11.15	52.01	74.00	-21.99

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2020-06-22
Test Frequency	:5690 MHz	Temp./Humi.	:24.1/63
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	27.93	11.15	39.08	54.00	-14.92
11380.00	Peak	39.11	11.15	50.26	74.00	-23.74

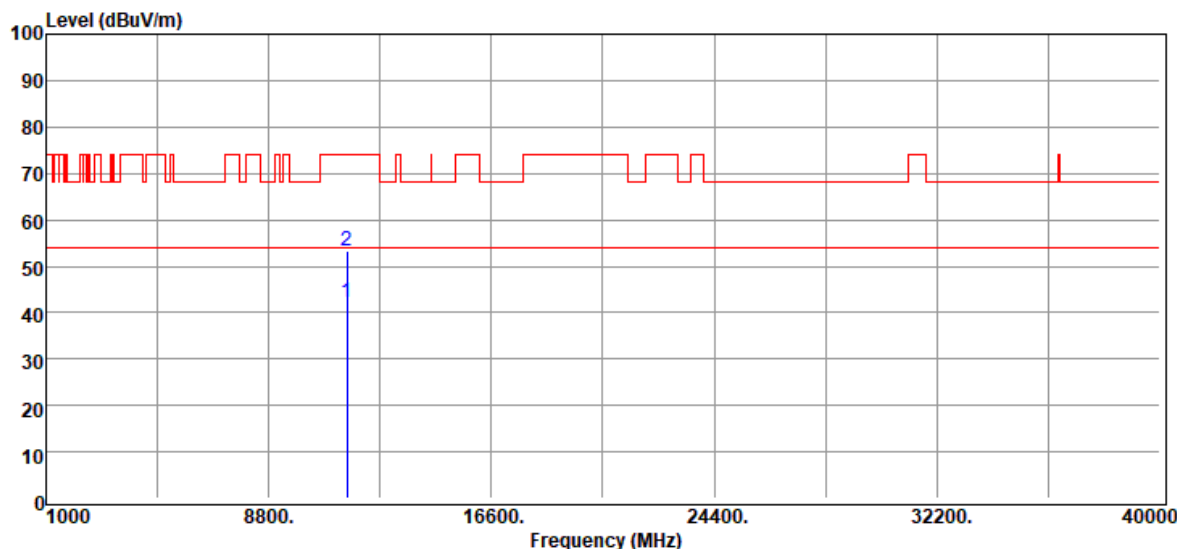
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.1/63
Antenna Pol. :VERTICAL
Engineer :Kailin



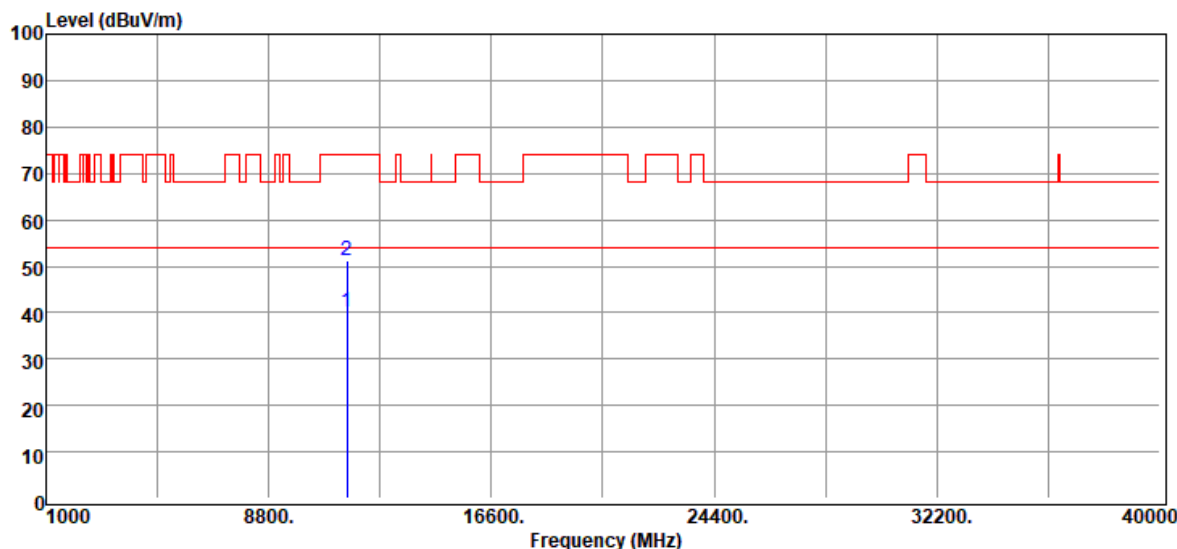
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	29.82	12.51	42.33	54.00	-11.67
11550.00	Peak	40.63	12.51	53.14	74.00	-20.86

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 4	Test Date	:2020-06-22
Test Frequency	:5775 MHz	Temp./Humi.	:24.1/63
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	27.49	12.51	40.00	54.00	-14.00
11550.00	Peak	38.79	12.51	51.30	74.00	-22.70

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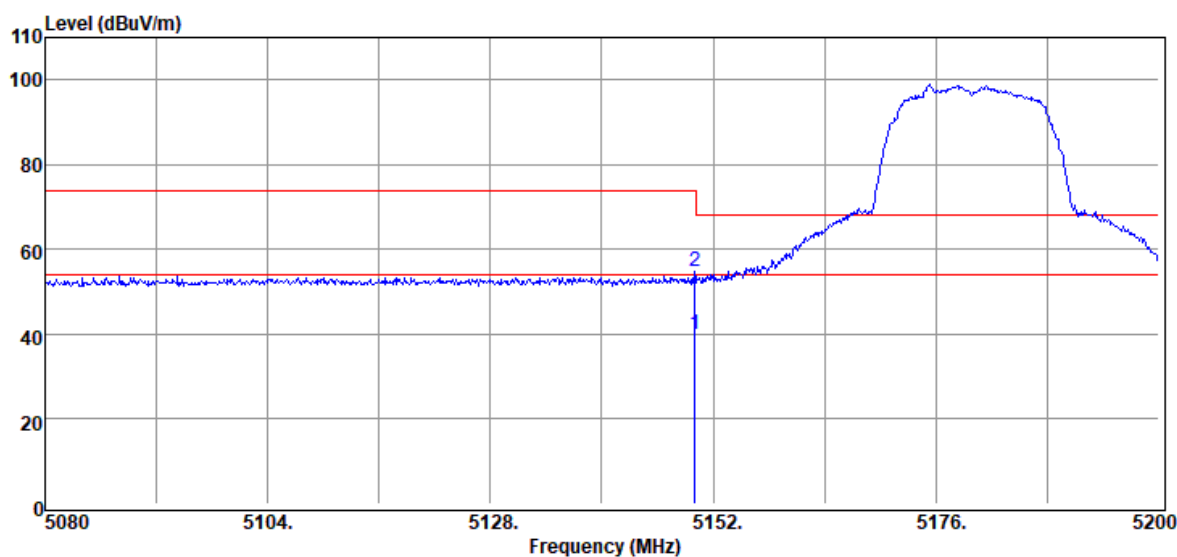
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11.7.3 Band edge falling to restricted band

Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-20
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	39.48	0.45	39.93	54.00	-14.07
5150.00	Peak	54.18	0.45	54.63	74.00	-19.37

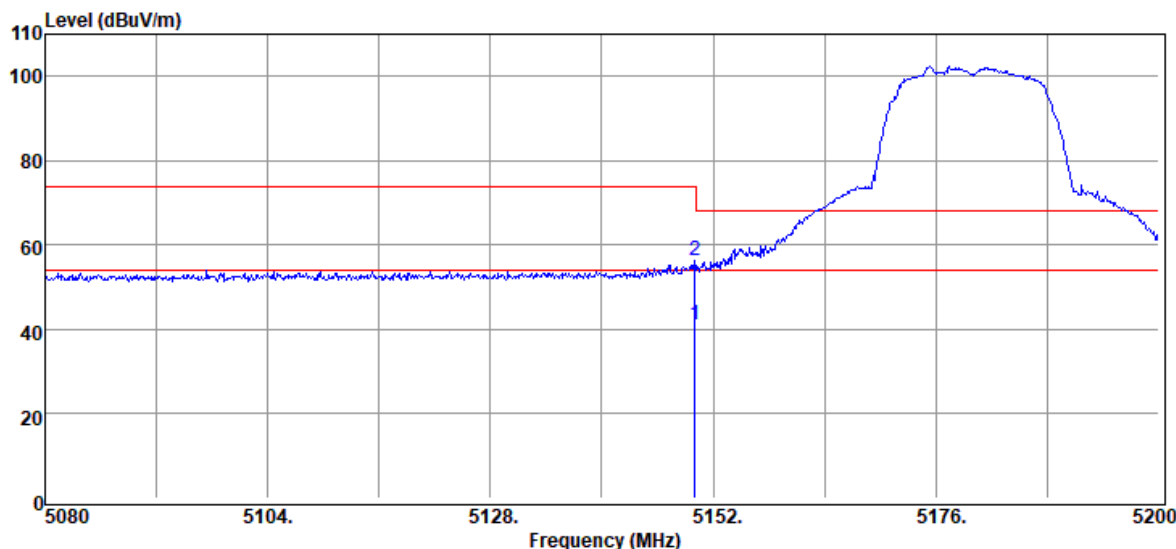
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	40.65	0.45	41.10	54.00	-12.90
5150.00	Peak	55.78	0.45	56.23	74.00	-17.77

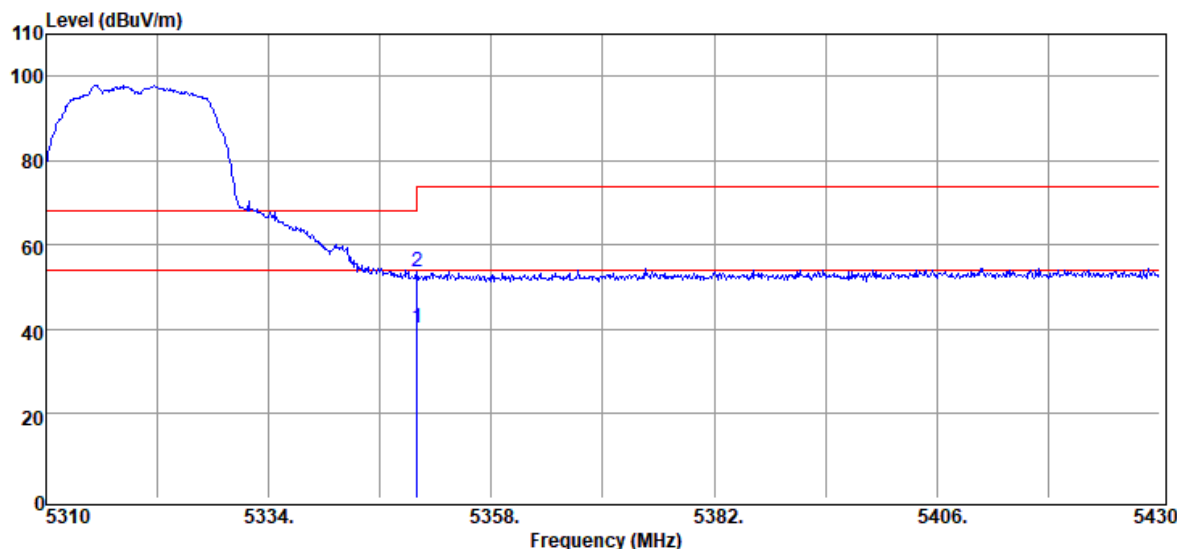
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	40.11	0.17	40.28	54.00	-13.72
5350.00	Peak	53.58	0.17	53.75	74.00	-20.25

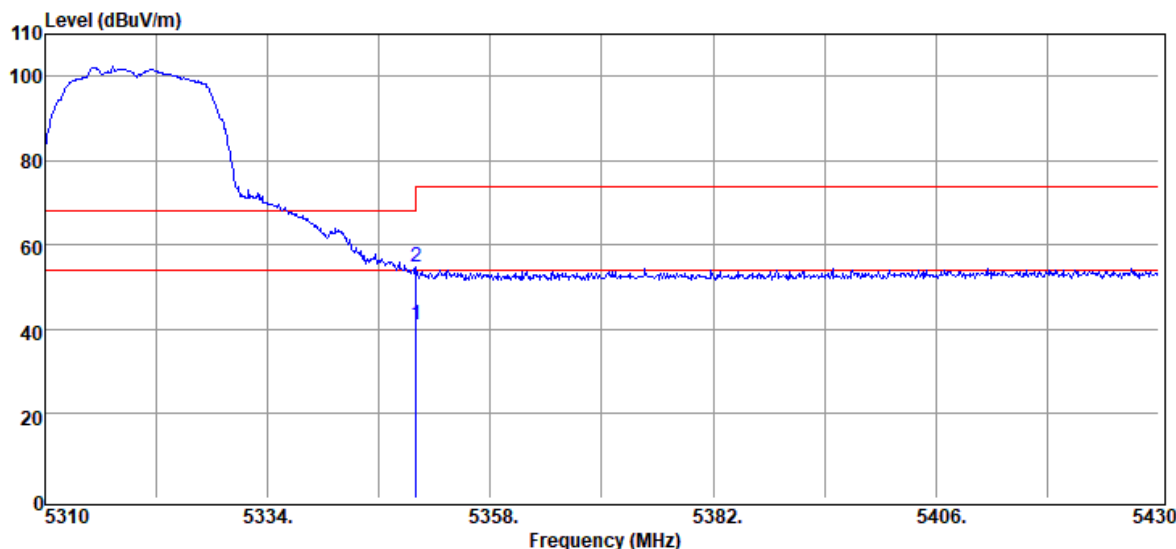
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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-20
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



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	40.84	0.17	41.01	54.00	-12.99
5350.00	Peak	54.81	0.17	54.98	74.00	-19.02

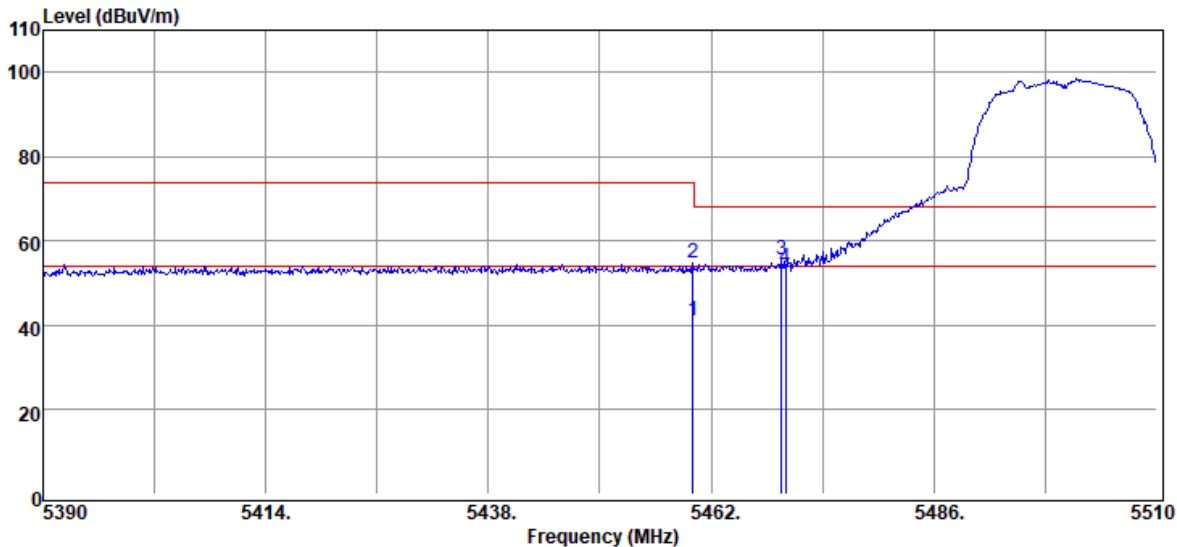
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	39.88	1.28	41.16	54.00	-12.84
5460.00	Peak	53.49	1.28	54.77	74.00	-19.23
5469.56	Peak	54.19	1.35	55.54	68.20	-12.66
5470.00	Peak	52.13	1.36	53.49	68.20	-14.71

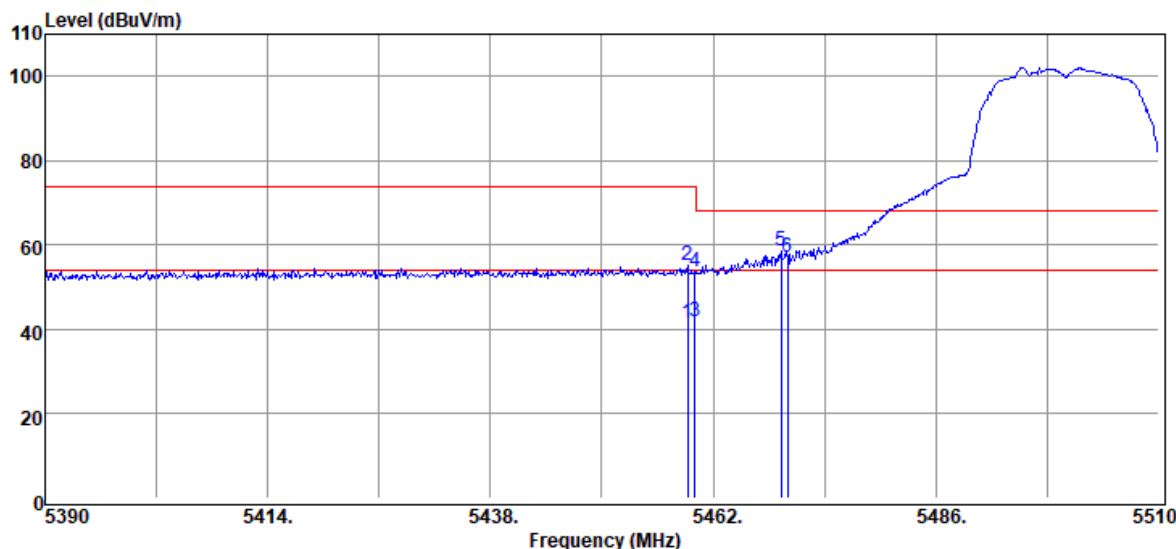
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.24	Average	40.15	1.28	41.43	54.00	-12.57
5459.24	Peak	53.74	1.28	55.02	74.00	-18.98
5460.00	Average	40.72	1.28	42.00	54.00	-12.00
5460.00	Peak	52.26	1.28	53.54	74.00	-20.46
5469.32	Peak	57.36	1.35	58.71	68.20	-9.49
5470.00	Peak	55.69	1.36	57.05	68.20	-11.15

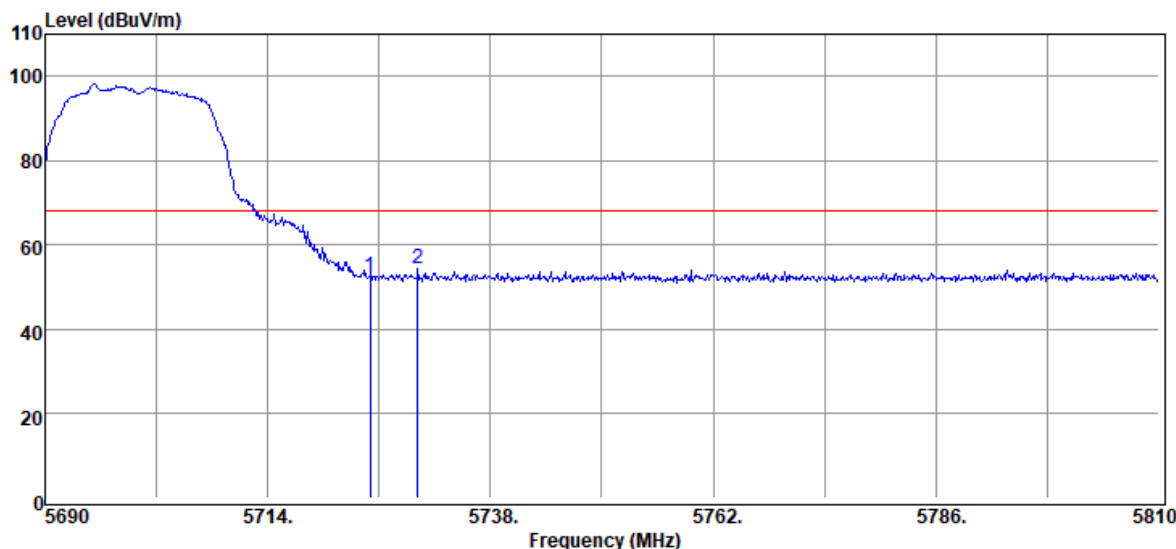
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	51.37	0.98	52.35	68.20	-15.85
5730.20	Peak	53.42	0.98	54.40	68.20	-13.80

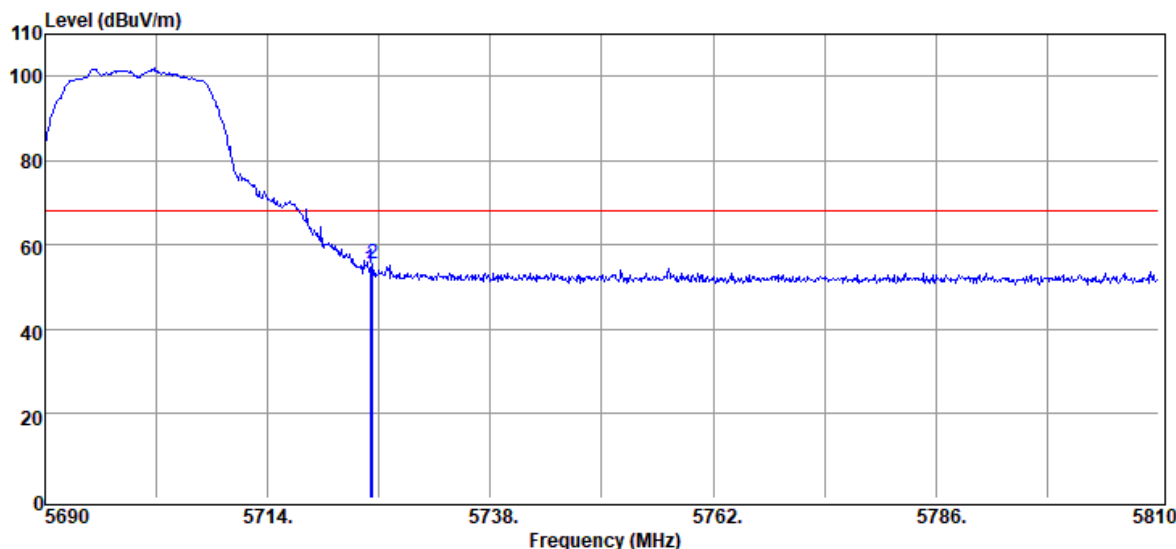
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Report Number :E2/2020/50133
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-20
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



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	53.46	0.98	54.44	68.20	-13.76
5725.28	Peak	54.68	0.98	55.66	68.20	-12.54

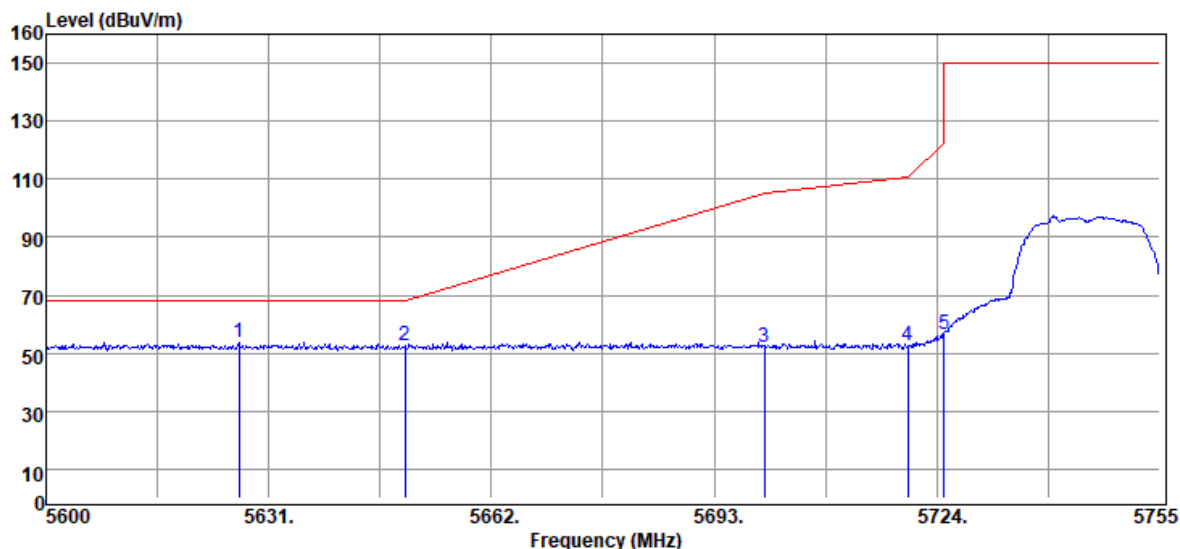
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5626.82	Peak	53.20	0.64	53.84	68.20	-14.36
5650.00	Peak	52.18	0.69	52.87	68.20	-15.33
5700.00	Peak	50.83	1.00	51.83	105.20	-53.37
5720.00	Peak	51.65	0.99	52.64	110.80	-58.16
5725.00	Peak	55.47	0.98	56.45	122.20	-65.75

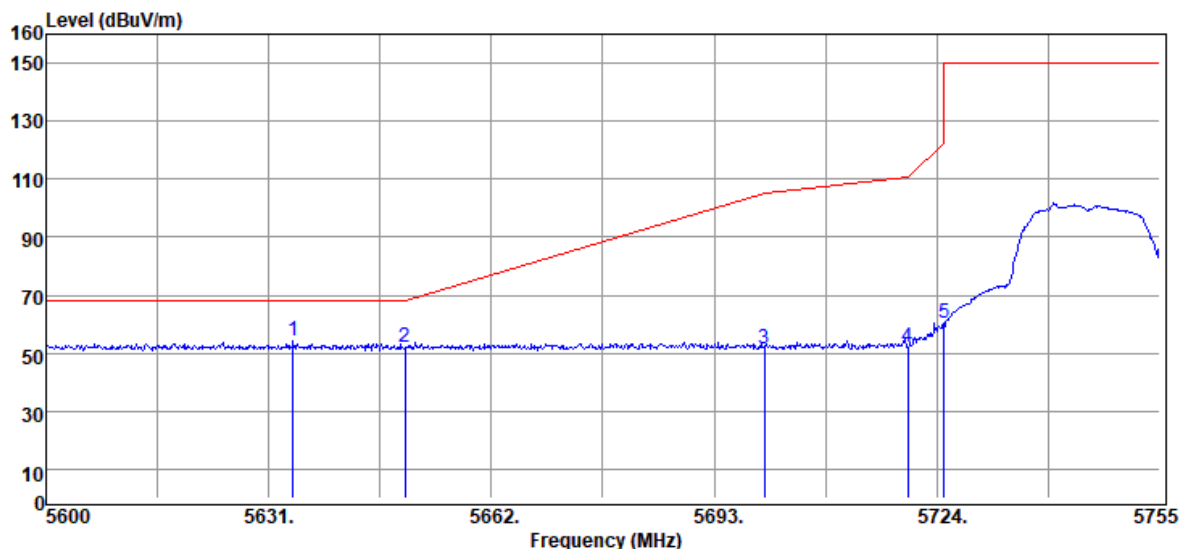
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5634.41	Peak	53.33	0.66	53.99	68.20	-14.21
5650.00	Peak	51.49	0.69	52.18	68.20	-16.02
5700.00	Peak	50.72	1.00	51.72	105.20	-53.48
5720.00	Peak	51.15	0.99	52.14	110.80	-58.66
5725.00	Peak	59.10	0.98	60.08	122.20	-62.12

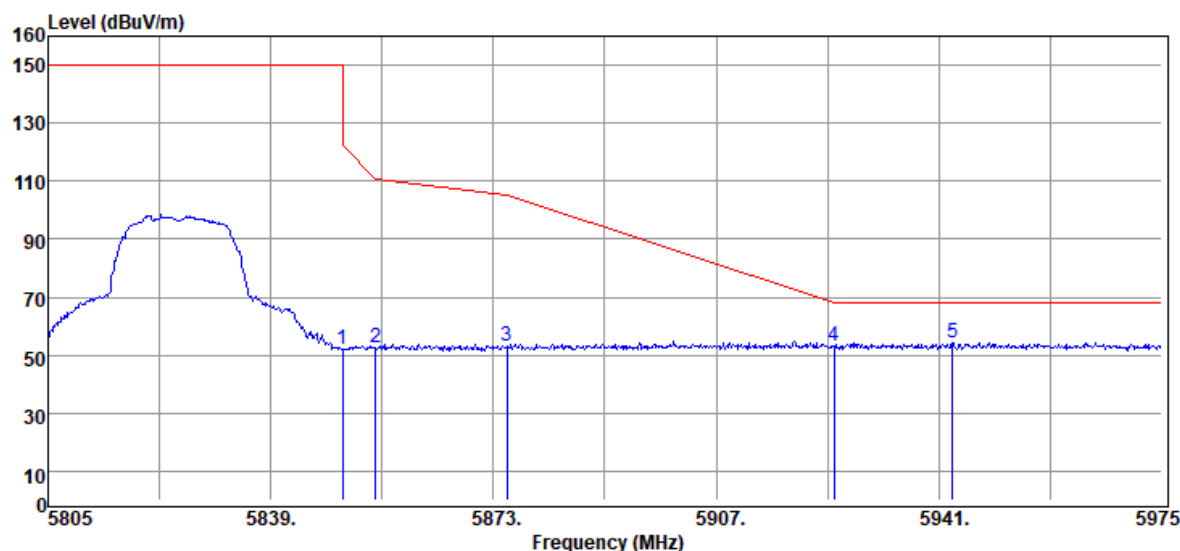
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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



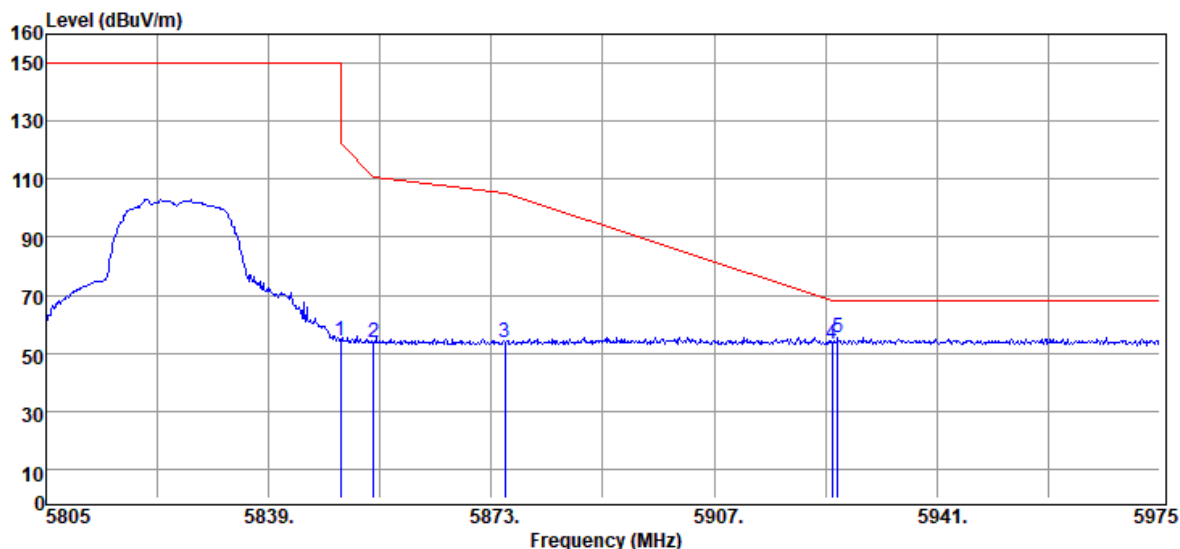
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.97	1.13	52.10	122.20	-70.10
5855.00	Peak	51.50	1.16	52.66	110.80	-58.14
5875.00	Peak	51.61	1.31	52.92	105.20	-52.28
5925.00	Peak	51.59	1.37	52.96	68.20	-15.24
5943.04	Peak	53.25	1.28	54.53	68.20	-13.67

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Report Number :E2/2020/50133
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	53.38	1.13	54.51	122.20	-67.69
5855.00	Peak	52.67	1.16	53.83	110.80	-56.97
5875.00	Peak	52.44	1.31	53.75	105.20	-51.45
5925.00	Peak	51.83	1.37	53.20	68.20	-15.00
5925.87	Peak	54.07	1.36	55.43	68.20	-12.77

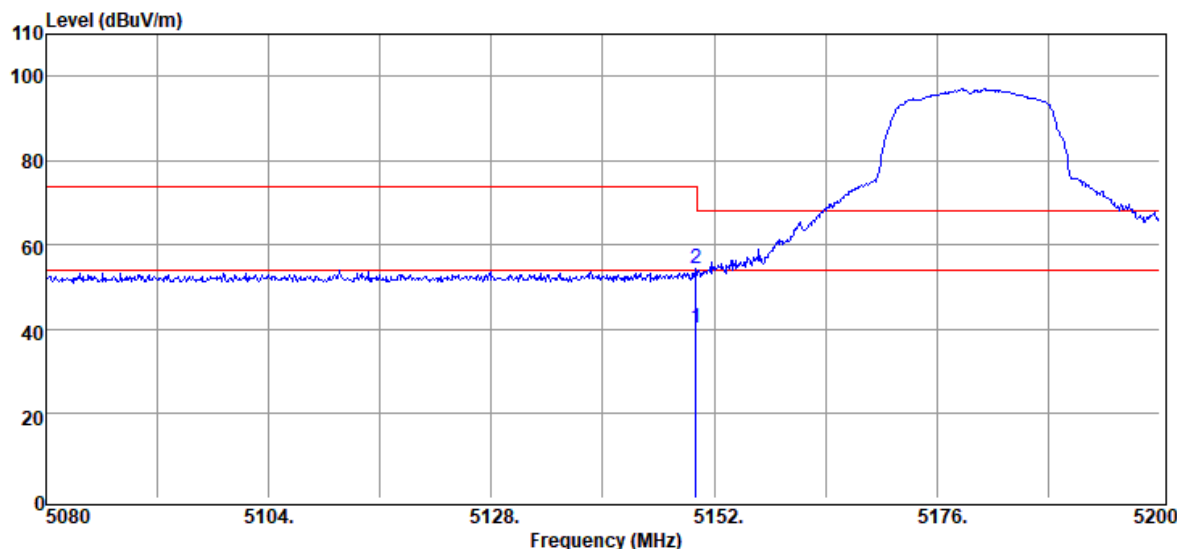
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	39.89	0.45	40.34	54.00	-13.66
5150.00	Peak	54.04	0.45	54.49	74.00	-19.51

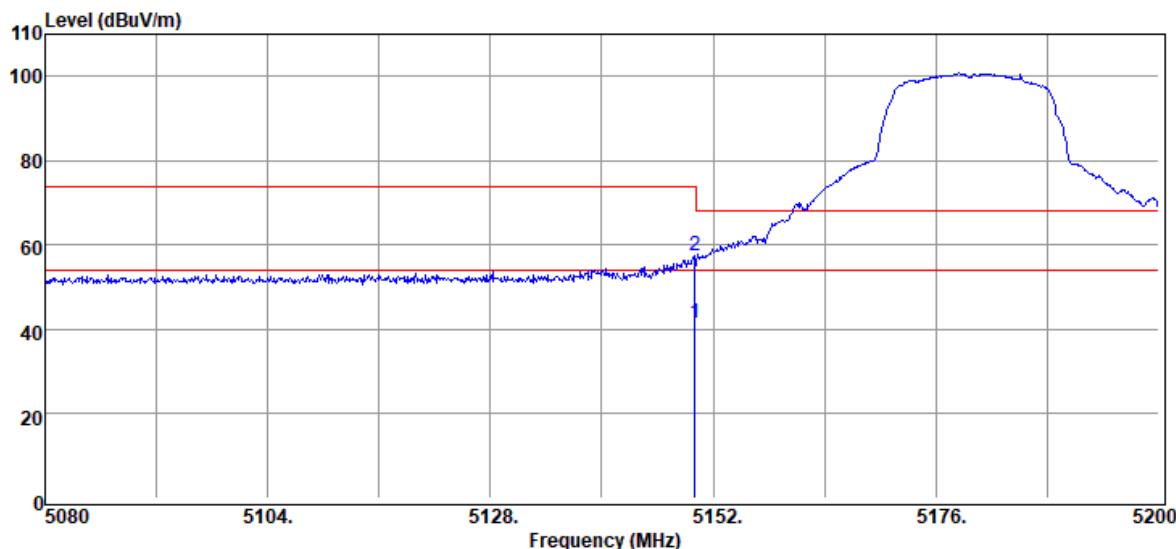
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	40.91	0.45	41.36	54.00	-12.64
5150.00	Peak	57.07	0.45	57.52	74.00	-16.48

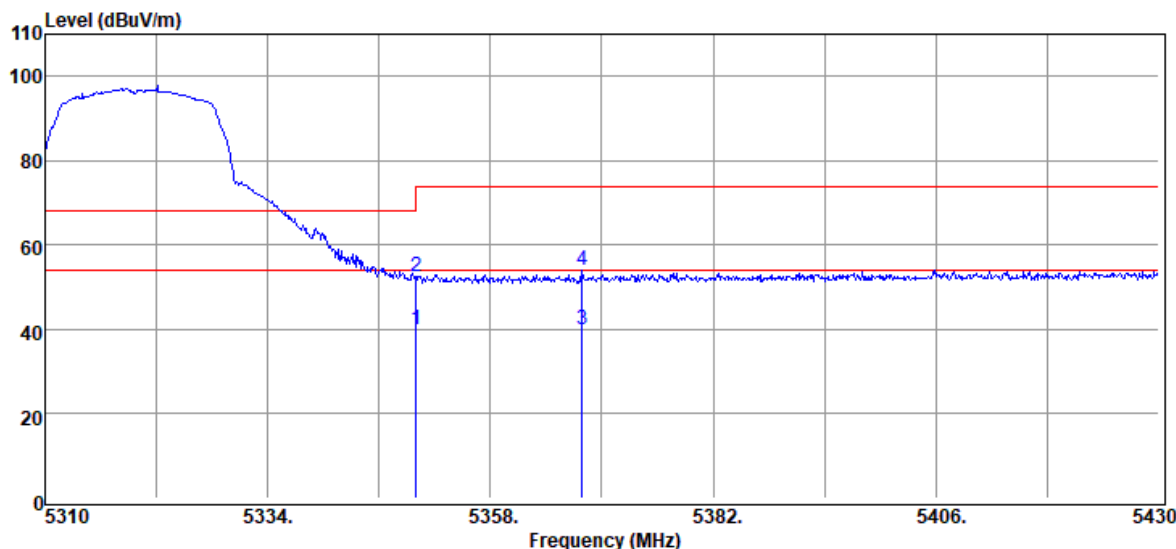
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



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	39.75	0.17	39.92	54.00	-14.08
5350.00	Peak	52.24	0.17	52.41	74.00	-21.59
5367.84	Average	39.48	0.39	39.87	54.00	-14.13
5367.84	Peak	53.52	0.39	53.91	74.00	-20.09

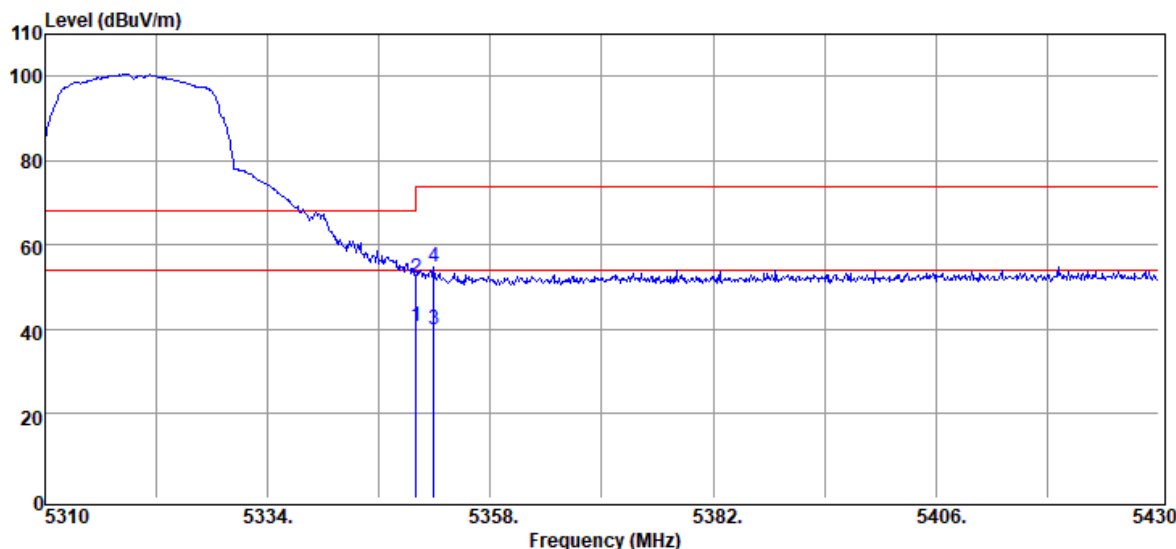
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	40.62	0.17	40.79	54.00	-13.21
5350.00	Peak	52.11	0.17	52.28	74.00	-21.72
5351.88	Average	39.75	0.19	39.94	54.00	-14.06
5351.88	Peak	54.50	0.19	54.69	74.00	-19.31

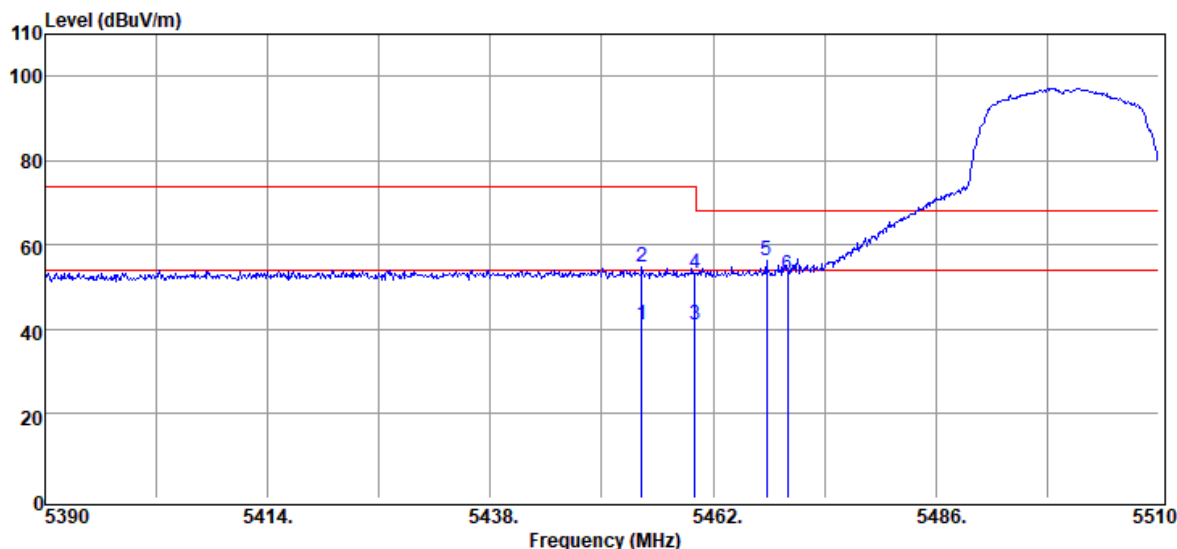
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



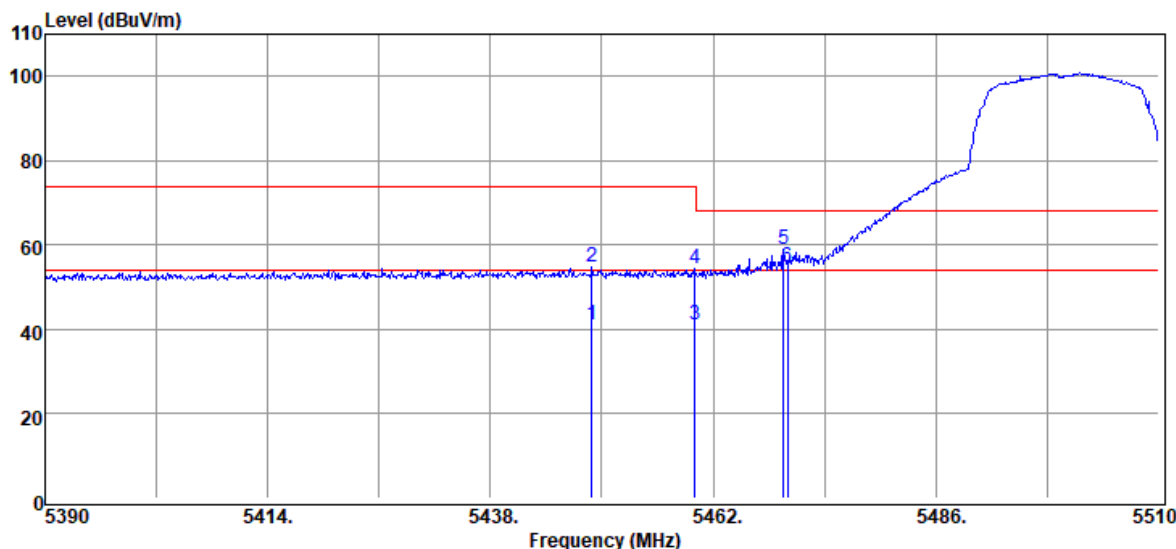
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.32	Average	39.84	1.25	41.09	54.00	-12.91
5454.32	Peak	53.42	1.25	54.67	74.00	-19.33
5460.00	Average	39.75	1.28	41.03	54.00	-12.97
5460.00	Peak	51.87	1.28	53.15	74.00	-20.85
5467.76	Peak	54.85	1.34	56.19	68.20	-12.01
5470.00	Peak	51.72	1.36	53.08	68.20	-15.12

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



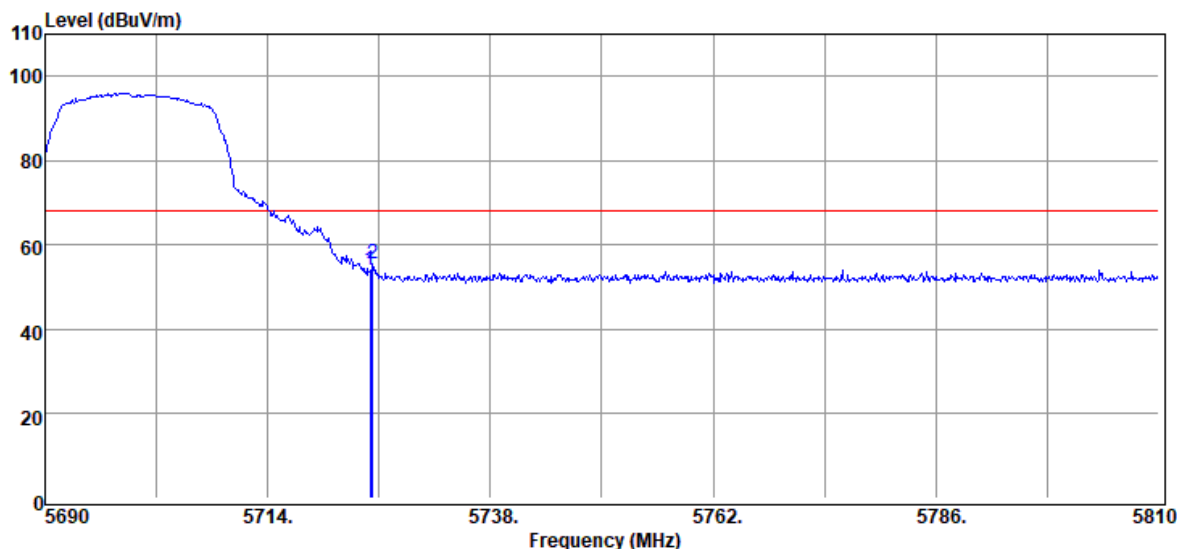
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5448.92	Average	39.98	1.21	41.19	54.00	-12.81
5448.92	Peak	53.56	1.21	54.77	74.00	-19.23
5460.00	Average	39.88	1.28	41.16	54.00	-12.84
5460.00	Peak	53.15	1.28	54.43	74.00	-19.57
5469.56	Peak	57.53	1.35	58.88	68.20	-9.32
5470.00	Peak	53.29	1.36	54.65	68.20	-13.55

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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	52.92	0.98	53.90	68.20	-14.30
5725.28	Peak	54.44	0.98	55.42	68.20	-12.78

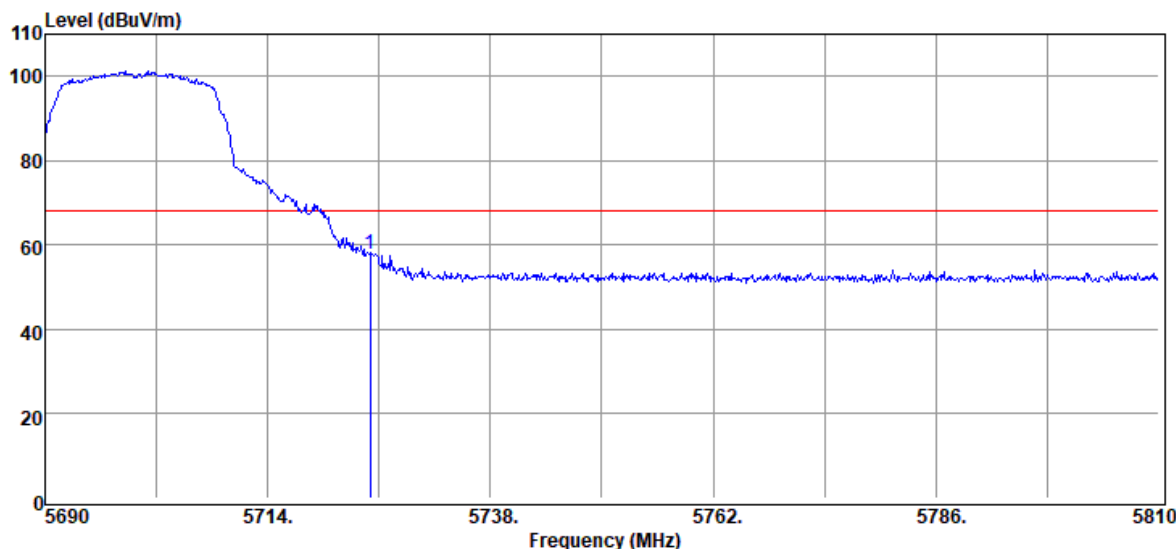
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	56.73	0.98	57.71	68.20	-10.49

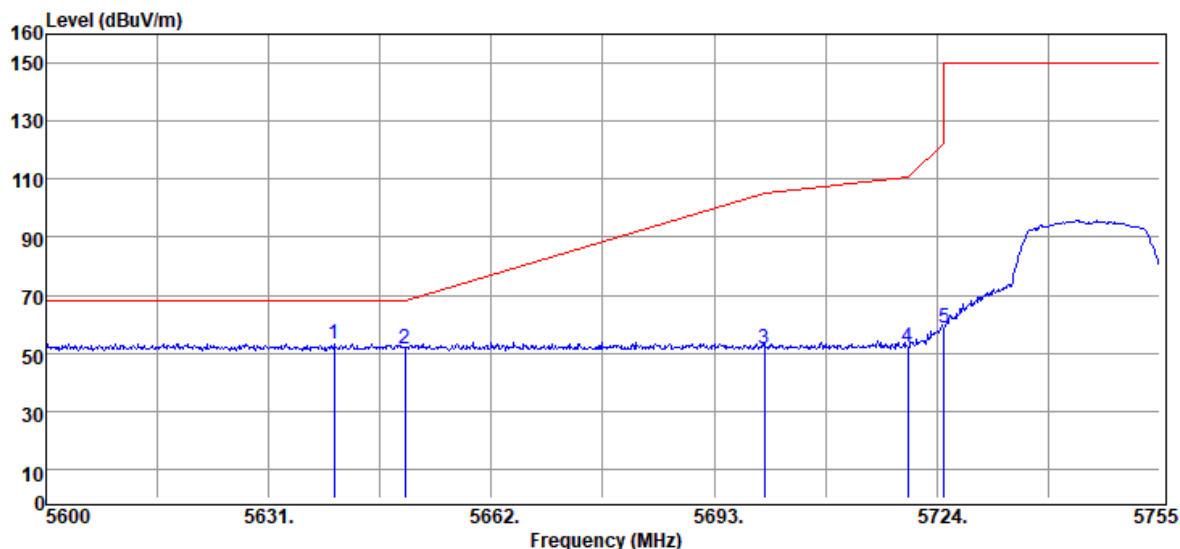
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5640.15	Peak	52.61	0.66	53.27	68.20	-14.93
5650.00	Peak	50.86	0.69	51.55	68.20	-16.65
5700.00	Peak	50.73	1.00	51.73	105.20	-53.47
5720.00	Peak	51.24	0.99	52.23	110.80	-58.57
5725.00	Peak	57.64	0.98	58.62	122.20	-63.58

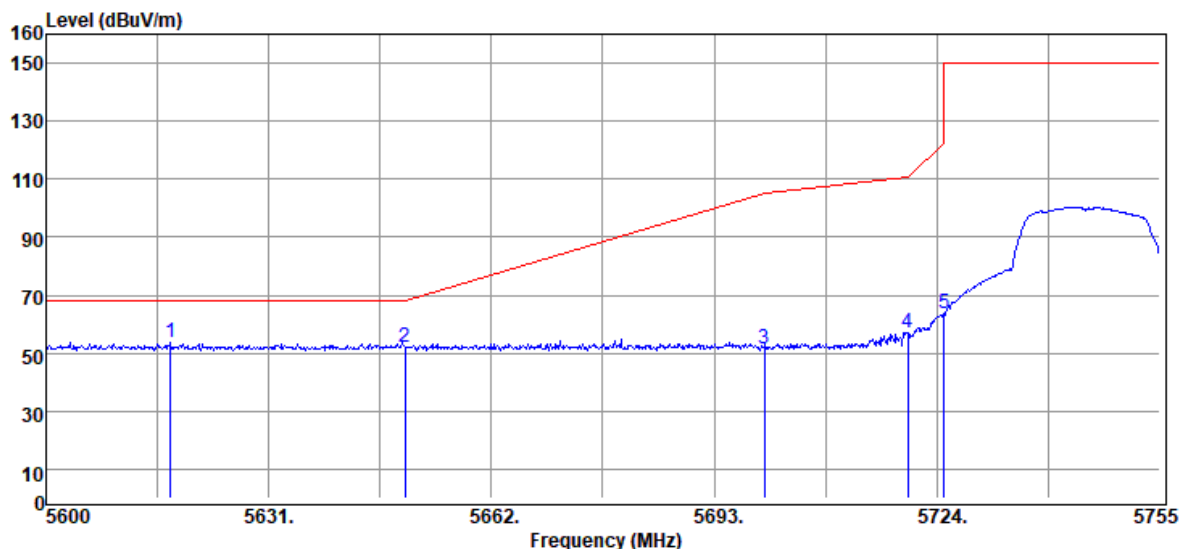
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5617.36	Peak	52.85	0.62	53.47	68.20	-14.73
5650.00	Peak	51.23	0.69	51.92	68.20	-16.28
5700.00	Peak	50.27	1.00	51.27	105.20	-53.93
5720.00	Peak	56.01	0.99	57.00	110.80	-53.80
5725.00	Peak	62.47	0.98	63.45	122.20	-58.75

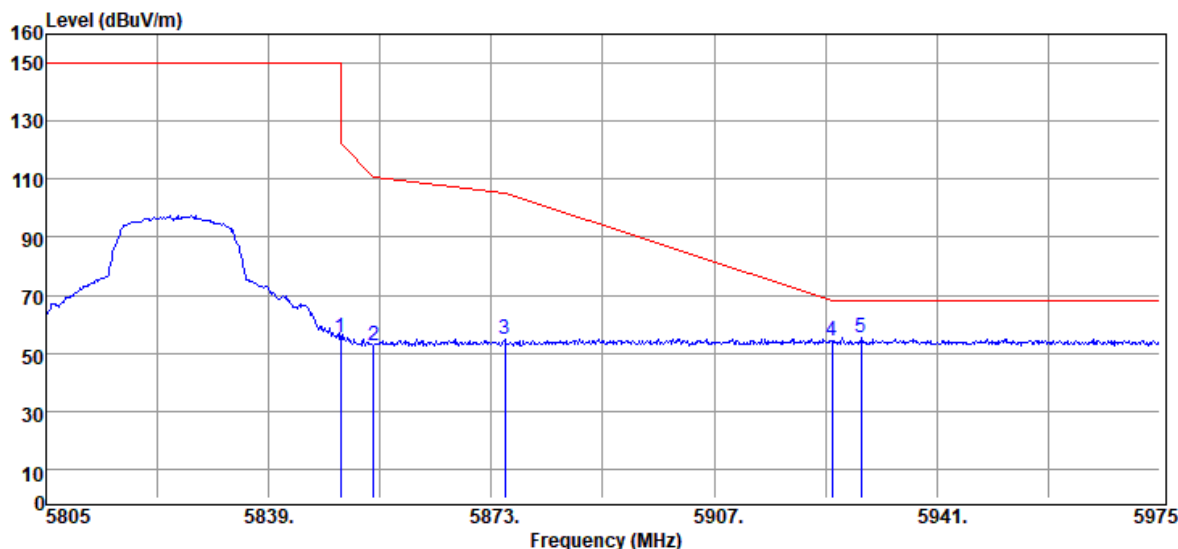
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



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	54.49	1.13	55.62	122.20	-66.58
5855.00	Peak	51.63	1.16	52.79	110.80	-58.01
5875.00	Peak	53.49	1.31	54.80	105.20	-50.40
5925.00	Peak	52.77	1.37	54.14	68.20	-14.06
5929.44	Peak	53.91	1.35	55.26	68.20	-12.94

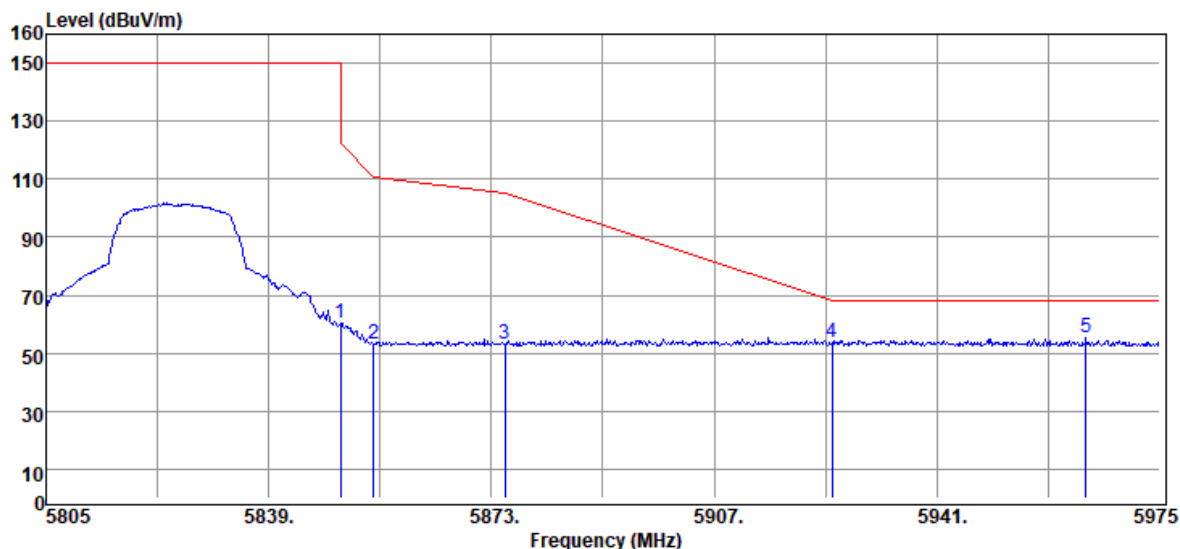
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Report Number :E2/2020/50133
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-20
Temp./Humi. :21.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	58.99	1.13	60.12	122.20	-62.08
5855.00	Peak	52.08	1.16	53.24	110.80	-57.56
5875.00	Peak	51.72	1.31	53.03	105.20	-52.17
5925.00	Peak	52.14	1.37	53.51	68.20	-14.69
5963.78	Peak	54.43	1.15	55.58	68.20	-12.62

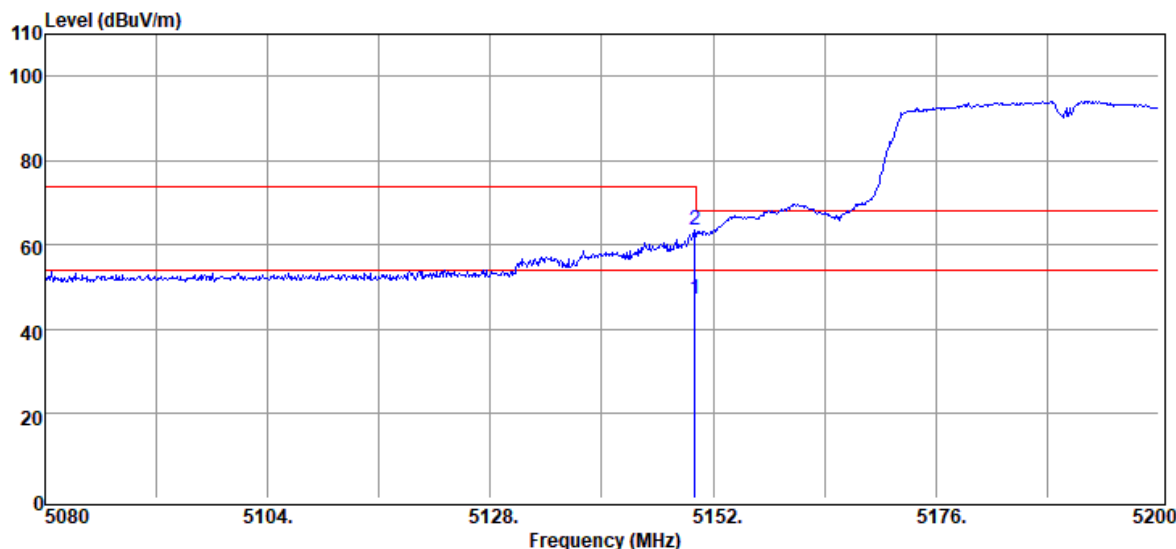
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/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	46.83	0.45	47.28	54.00	-6.72
5150.00	Peak	62.98	0.45	63.43	74.00	-10.57

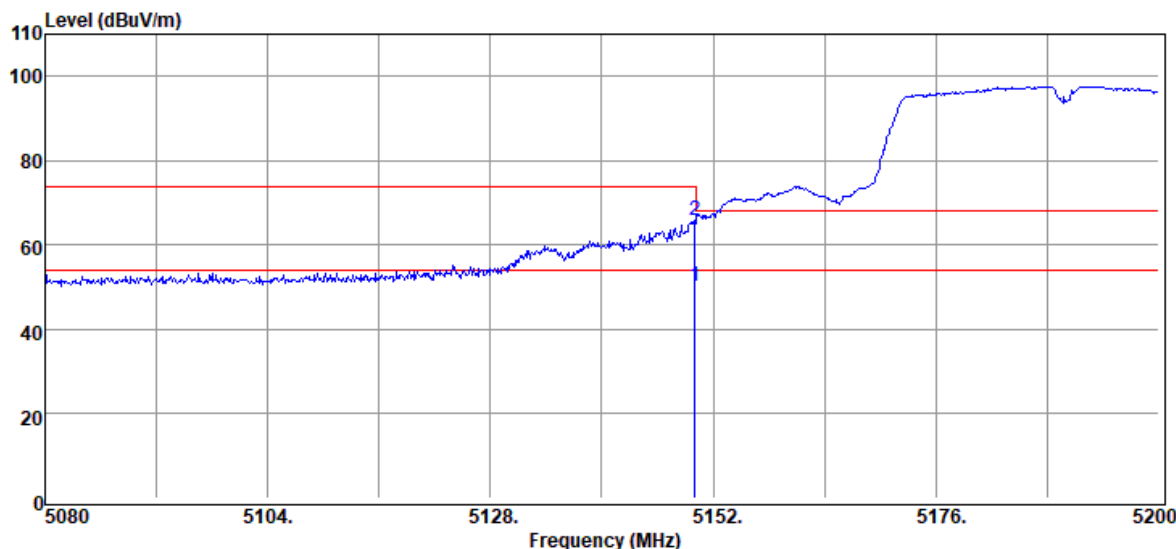
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	49.77	0.45	50.22	54.00	-3.78
5150.00	Peak	65.22	0.45	65.67	74.00	-8.33

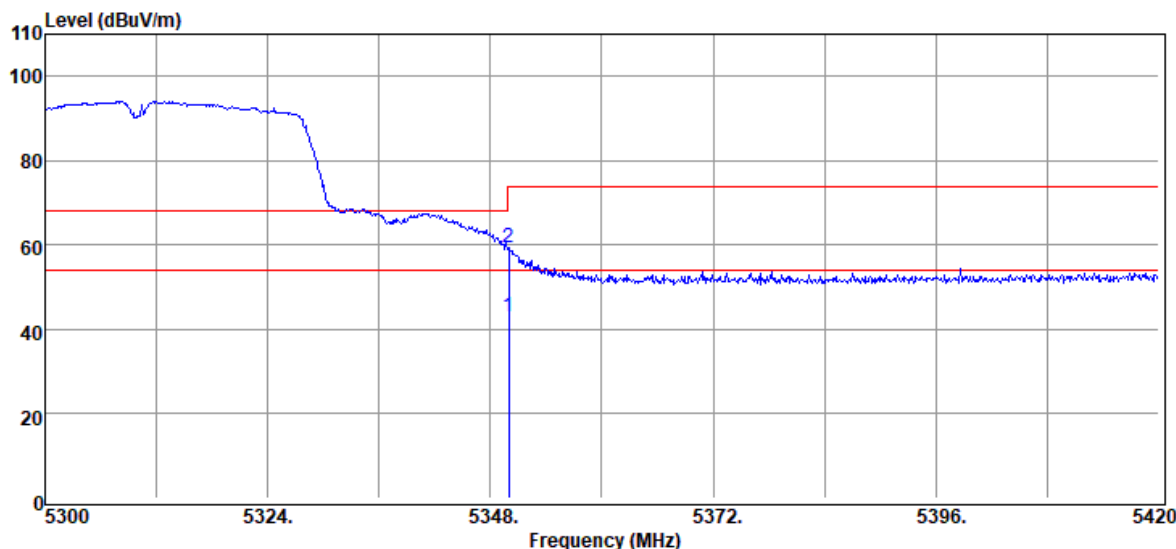
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :VERTICAL
Engineer :Kailin



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	42.78	0.17	42.95	54.00	-11.05
5350.00	Peak	59.31	0.17	59.48	74.00	-14.52

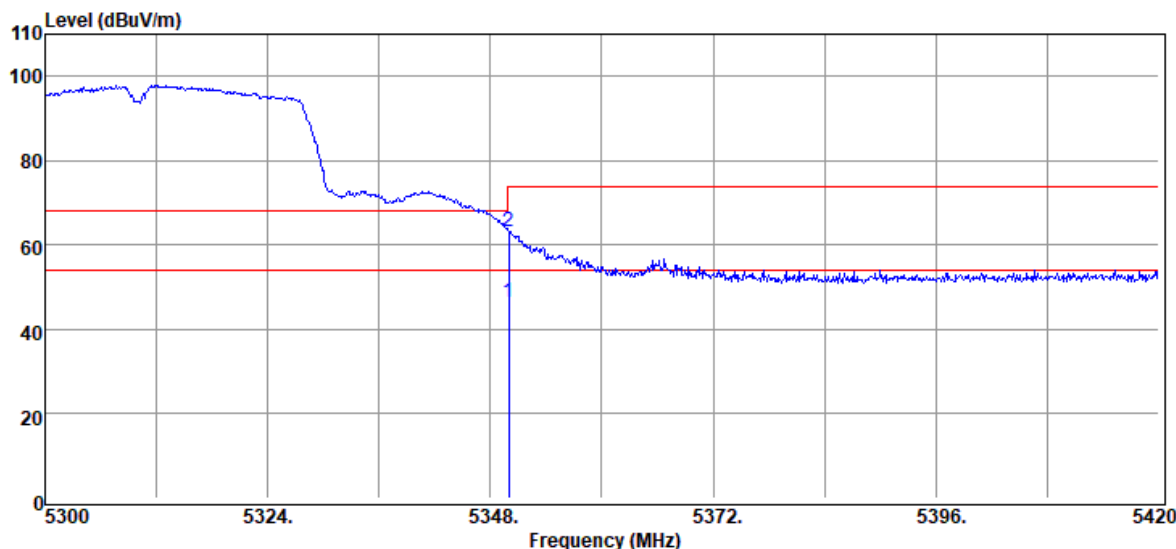
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



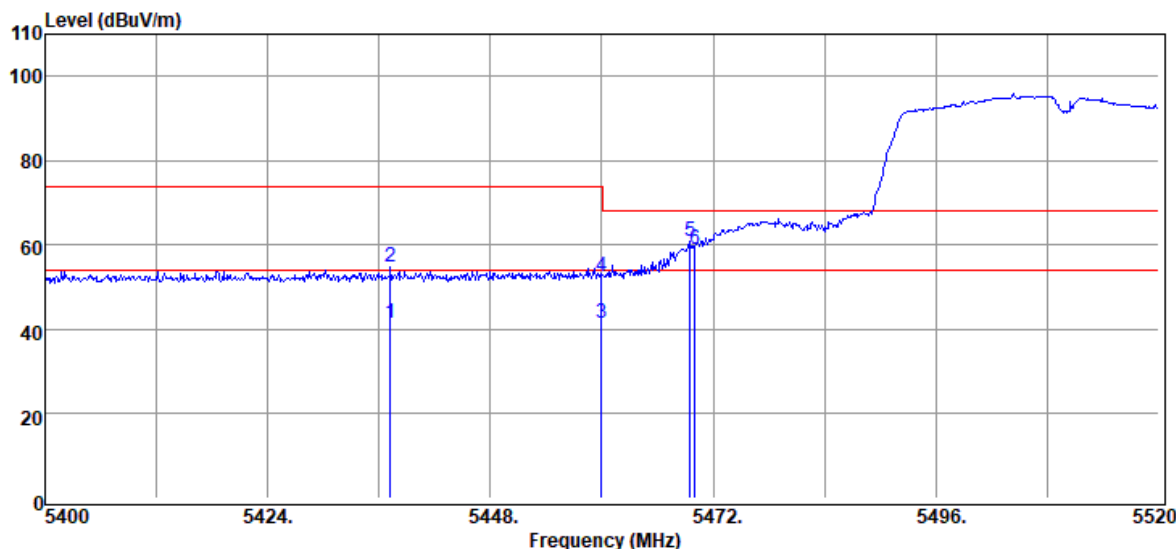
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	46.33	0.17	46.50	54.00	-7.50
5350.00	Peak	63.06	0.17	63.23	74.00	-10.77

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :VERTICAL
Engineer :Kailin


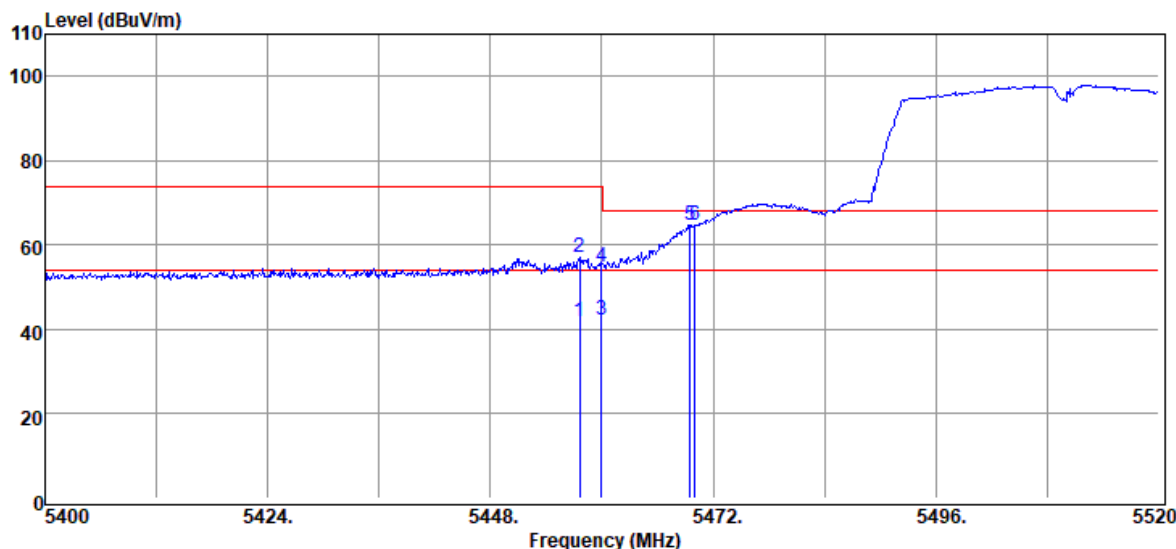
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5437.20	Average	40.54	1.11	41.65	54.00	-12.35
5437.20	Peak	53.52	1.11	54.63	74.00	-19.37
5460.00	Average	40.26	1.28	41.54	54.00	-12.46
5460.00	Peak	51.31	1.28	52.59	74.00	-21.41
5469.48	Peak	59.47	1.35	60.82	68.20	-7.38
5470.00	Peak	57.79	1.36	59.15	68.20	-9.05

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



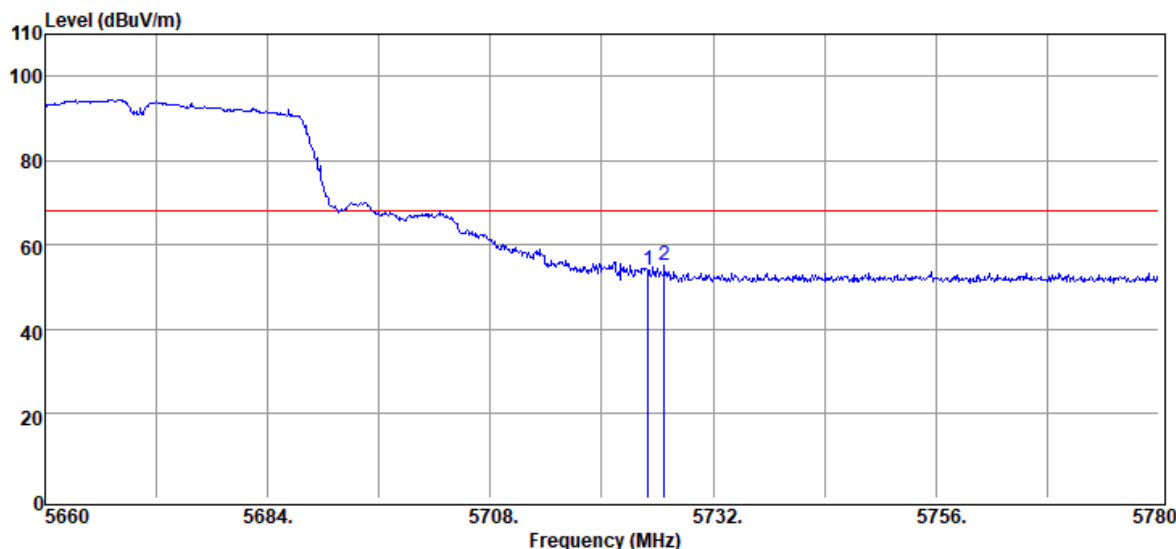
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.60	Average	40.68	1.28	41.96	54.00	-12.04
5457.60	Peak	55.89	1.28	57.17	74.00	-16.83
5460.00	Average	40.93	1.28	42.21	54.00	-11.79
5460.00	Peak	53.46	1.28	54.74	74.00	-19.26
5469.48	Peak	63.38	1.35	64.73	68.20	-3.47
5470.00	Peak	63.32	1.36	64.68	68.20	-3.52

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.5/64
Antenna Pol. :VERTICAL
Engineer :Kailin



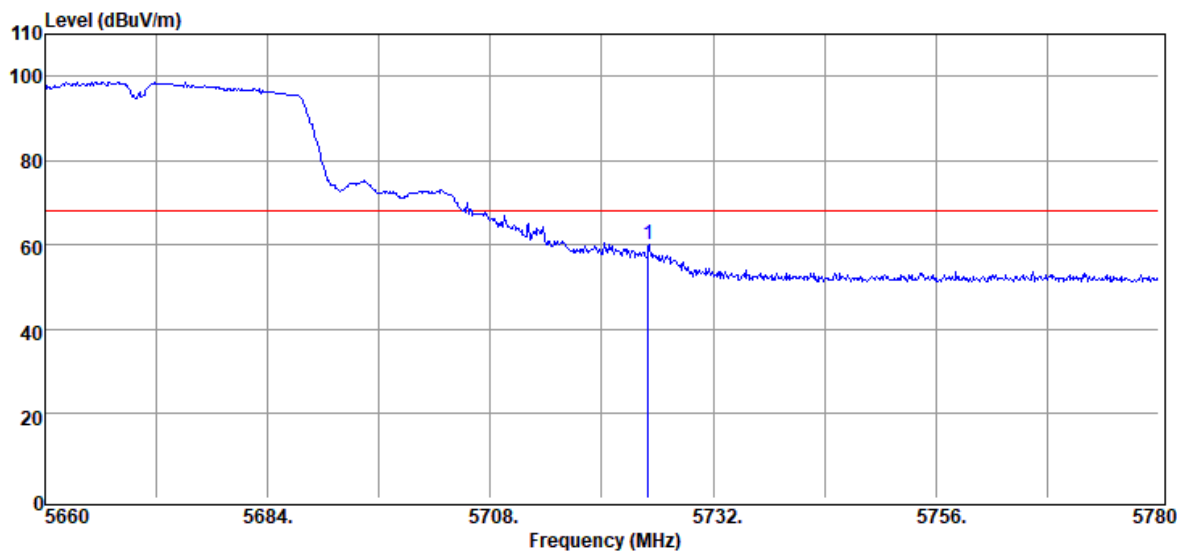
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	53.06	0.98	54.04	68.20	-14.16
5726.72	Peak	54.37	0.99	55.36	68.20	-12.84

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Report Number :E2/2020/50133
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-06-22
 Temp./Humi. :24.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



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	59.09	0.98	60.07	68.20	-8.13

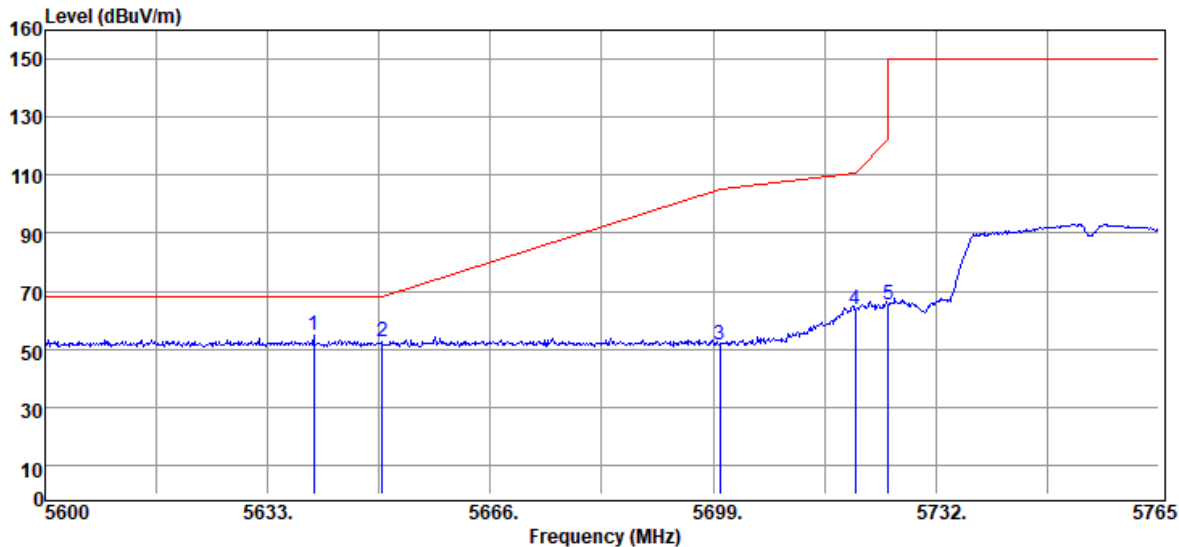
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/65
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5639.77	Peak	53.89	0.66	54.55	68.20	-13.65
5650.00	Peak	51.92	0.69	52.61	68.20	-15.59
5700.00	Peak	50.39	1.00	51.39	105.20	-53.81
5720.00	Peak	62.94	0.99	63.93	110.80	-46.87
5725.00	Peak	64.40	0.98	65.38	122.20	-56.82

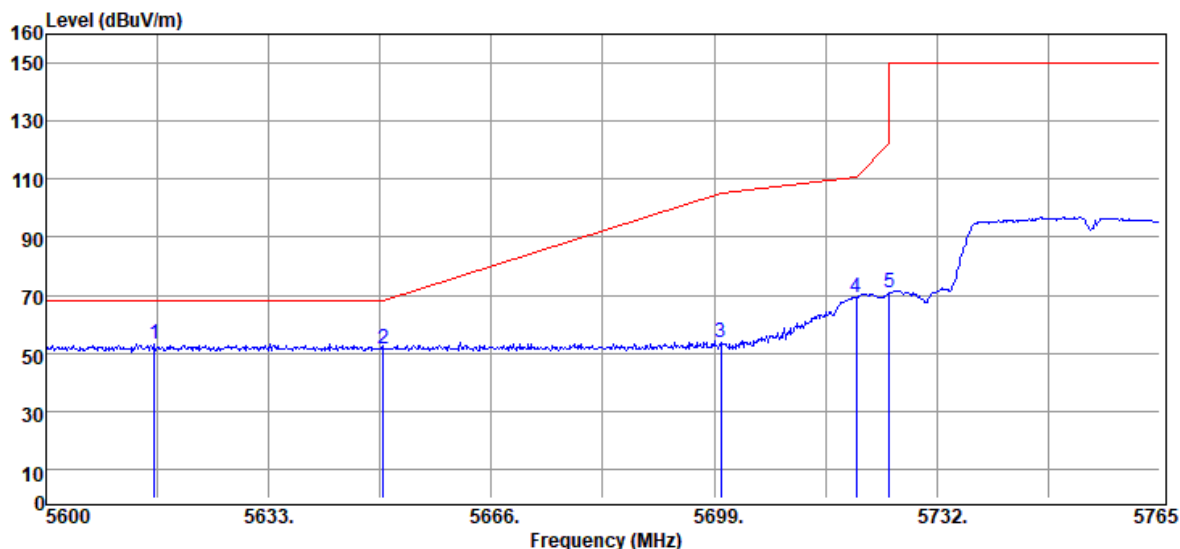
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/65
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5616.01	Peak	52.60	0.62	53.22	68.20	-14.98
5650.00	Peak	50.58	0.69	51.27	68.20	-16.93
5700.00	Peak	52.66	1.00	53.66	105.20	-51.54
5720.00	Peak	68.48	0.99	69.47	110.80	-41.33
5725.00	Peak	69.97	0.98	70.95	122.20	-51.25

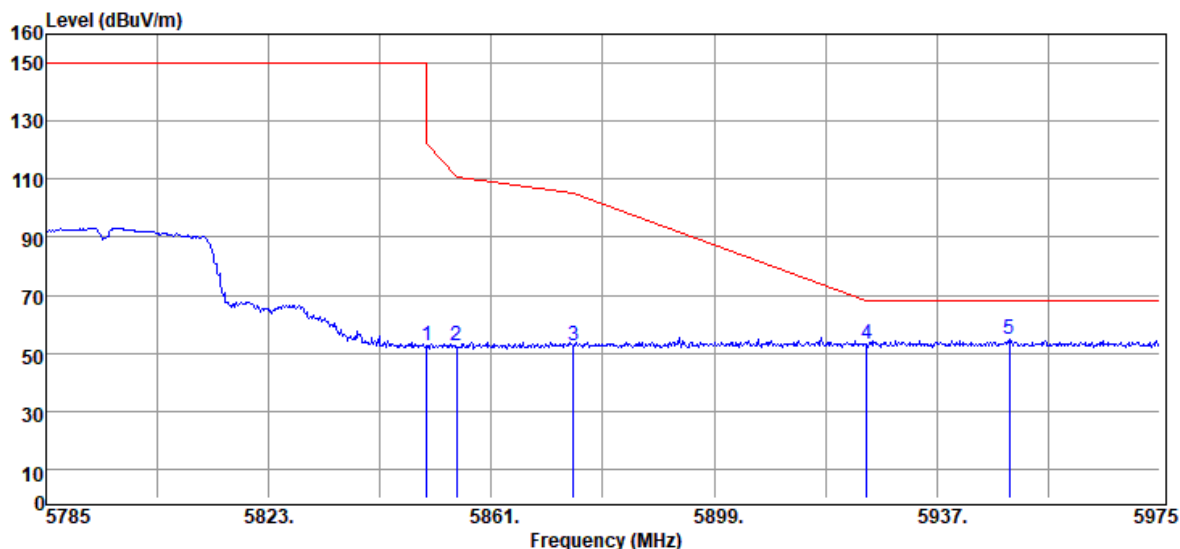
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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/65
Antenna Pol. :VERTICAL
Engineer :Kailin



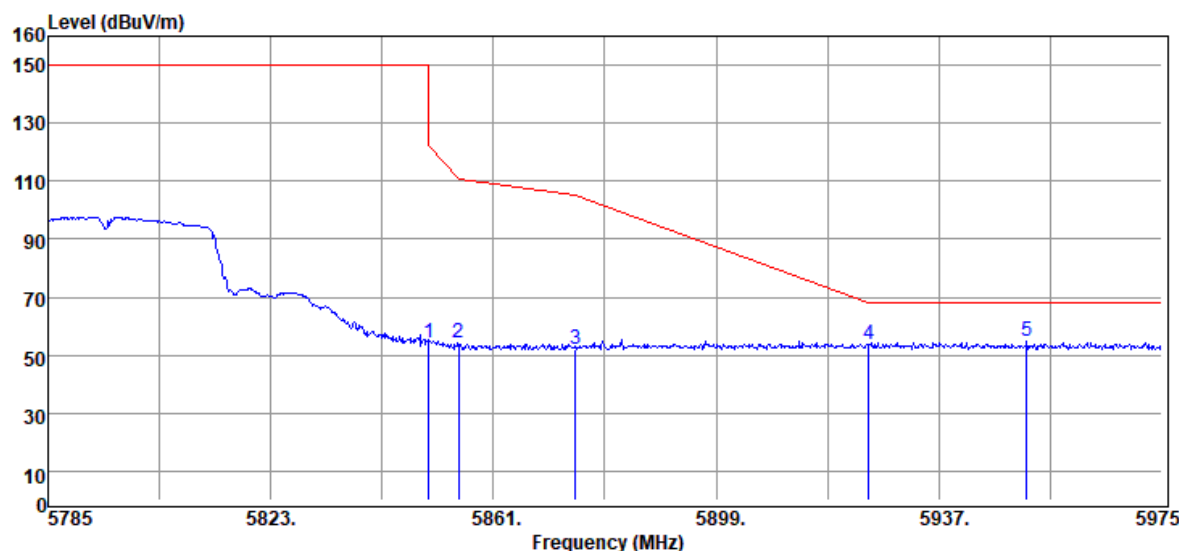
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	51.63	1.13	52.76	122.20	-69.44
5855.00	Peak	51.56	1.16	52.72	110.80	-58.08
5875.00	Peak	51.29	1.31	52.60	105.20	-52.60
5925.00	Peak	52.04	1.37	53.41	68.20	-14.79
5949.35	Peak	53.30	1.25	54.55	68.20	-13.65

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Report Number :E2/2020/50133
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/65
Antenna Pol. :HORIZONTAL
Engineer :Kailin



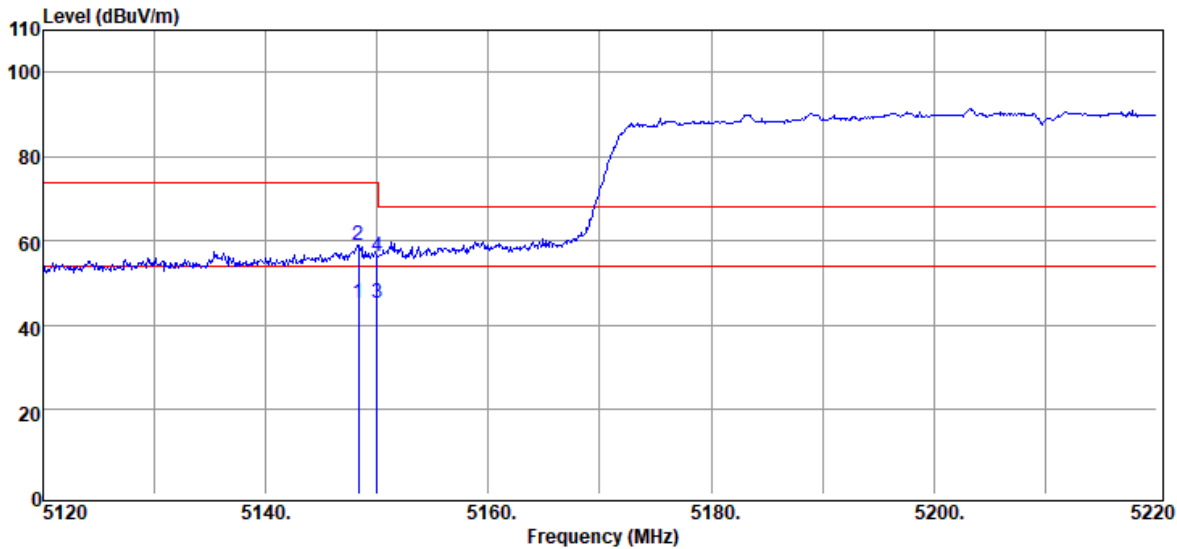
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	53.23	1.13	54.36	122.20	-67.84
5855.00	Peak	52.90	1.16	54.06	110.80	-56.74
5875.00	Peak	50.63	1.31	51.94	105.20	-53.26
5925.00	Peak	52.59	1.37	53.96	68.20	-14.24
5952.01	Peak	53.48	1.23	54.71	68.20	-13.49

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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/65
Antenna Pol. :VERTICAL
Engineer :Kailin



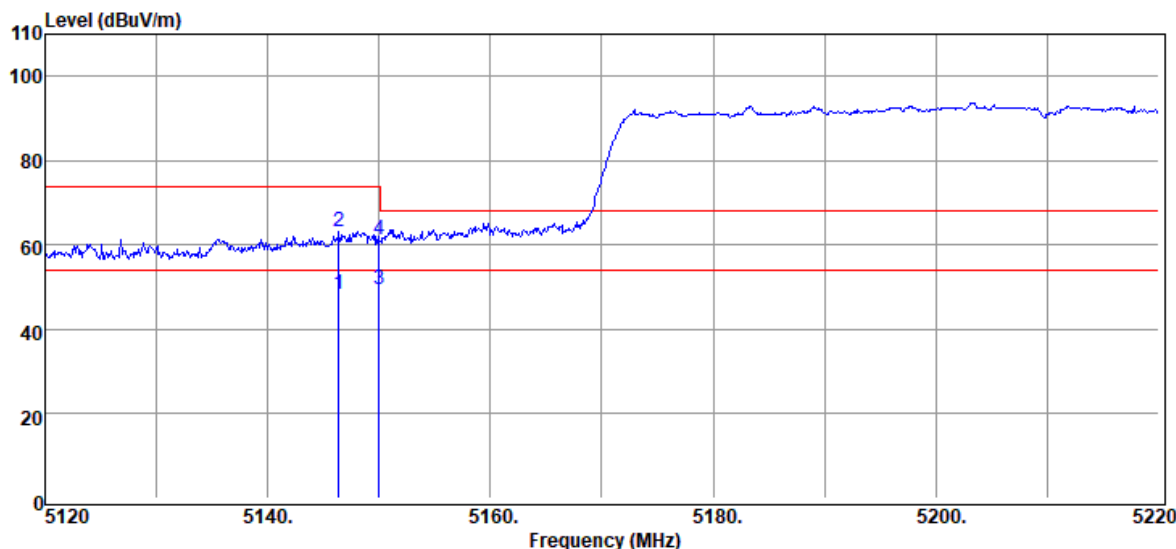
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.30	Average	44.89	0.44	45.33	54.00	-8.67
5148.30	Peak	58.59	0.44	59.03	74.00	-14.97
5150.00	Average	44.68	0.45	45.13	54.00	-8.87
5150.00	Peak	56.02	0.45	56.47	74.00	-17.53

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 1	Test Date	:2020-06-22
Test Frequency	:5210 MHz	Temp./Humi.	:24.4/65
Test Mode	:BE CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.40	Average	47.95	0.43	48.38	54.00	-5.62
5146.40	Peak	62.82	0.43	63.25	74.00	-10.75
5150.00	Average	48.98	0.45	49.43	54.00	-4.57
5150.00	Peak	61.01	0.45	61.46	74.00	-12.54

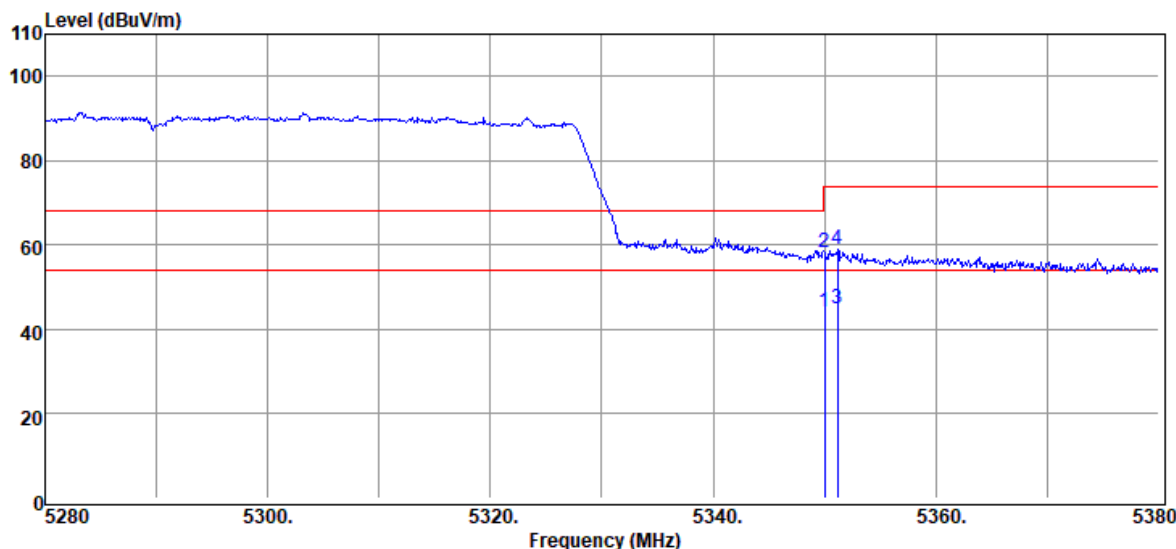
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/65
Antenna Pol. :VERTICAL
Engineer :Kailin



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	44.15	0.17	44.32	54.00	-9.68
5350.00	Peak	57.97	0.17	58.14	74.00	-15.86
5351.20	Average	44.66	0.18	44.84	54.00	-9.16
5351.20	Peak	58.92	0.18	59.10	74.00	-14.90

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Report Number :E2/2020/50133

Operation Mode :802.11ac80 / Band 2

Test Frequency :5290 MHz

Test Mode :BE CH HIGH

EUT Pol :E2 Plan

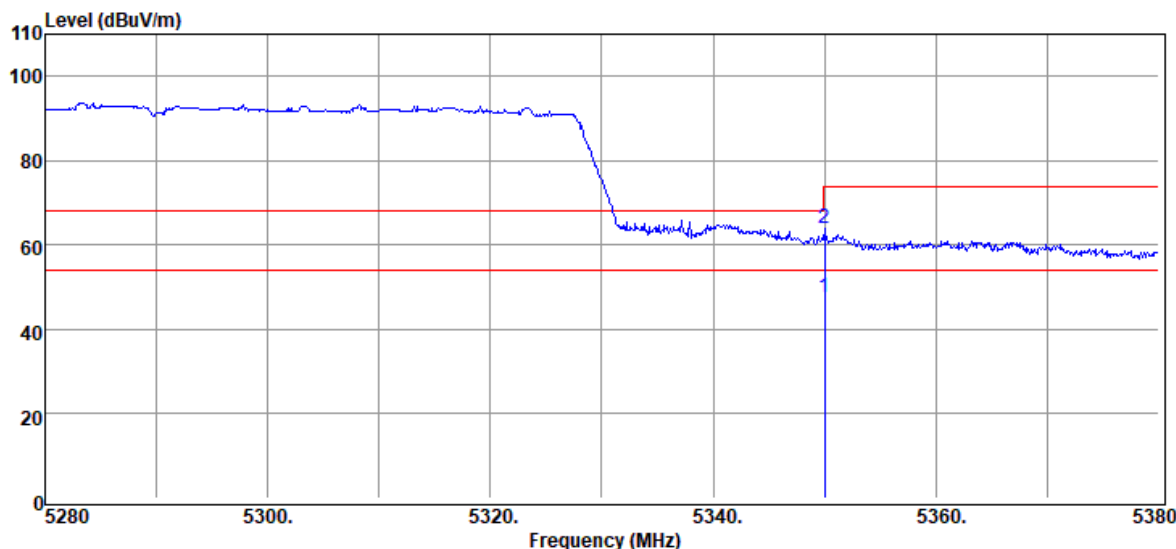
Test Site :966 Chamber D

Test Date :2020-06-22

Temp./Humi. :24.4/65

Antenna Pol. :HORIZONTAL

Engineer :Kailin



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	47.55	0.17	47.72	54.00	-6.28
5350.00	Peak	63.77	0.17	63.94	74.00	-10.06

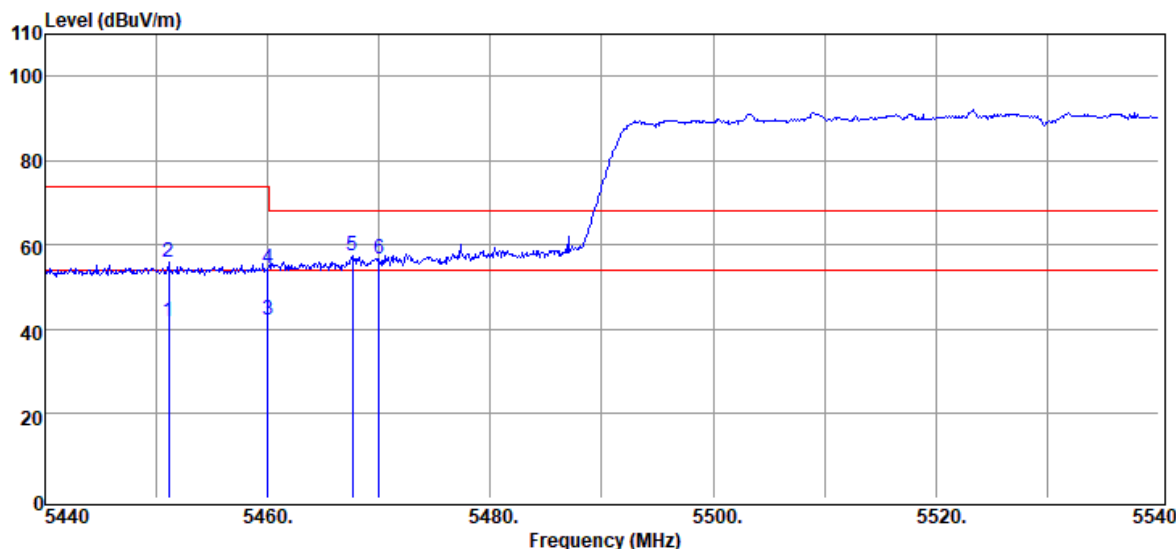
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5451.10	Average	40.67	1.22	41.89	54.00	-12.11
5451.10	Peak	54.55	1.22	55.77	74.00	-18.23
5460.00	Average	40.91	1.28	42.19	54.00	-11.81
5460.00	Peak	53.06	1.28	54.34	74.00	-19.66
5467.60	Peak	56.31	1.34	57.65	68.20	-10.55
5470.00	Peak	55.50	1.36	56.86	68.20	-11.34

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Report Number :E2/2020/50133

Operation Mode :802.11ac80 / Band 3

Test Frequency :5530 MHz

Test Mode :BE CH LOW

EUT Pol :E2 Plan

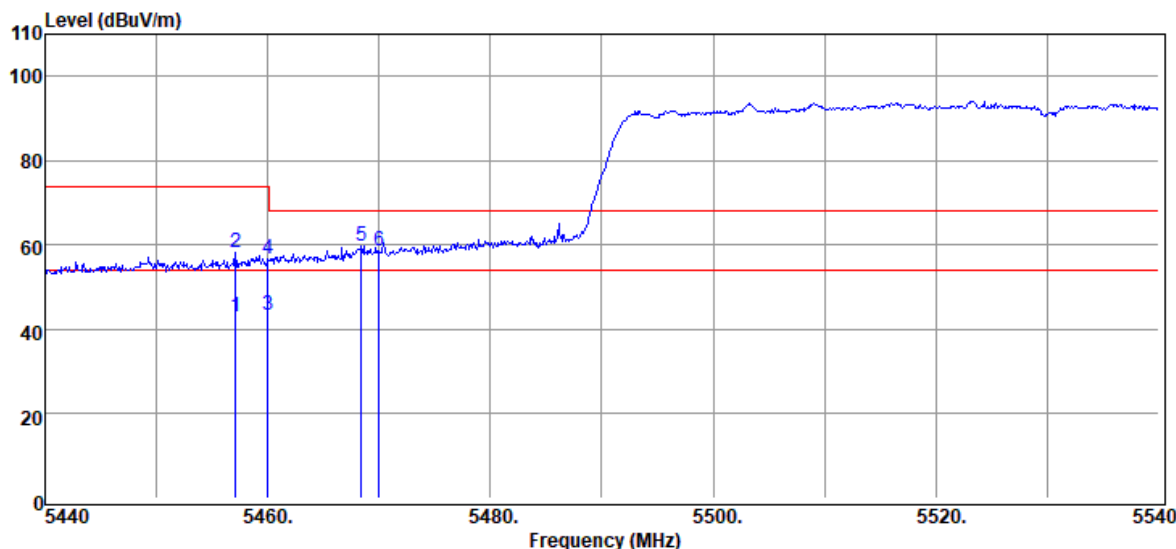
Test Site :966 Chamber D

Test Date :2020-06-22

Temp./Humi. :24.4/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.10	Average	41.94	1.26	43.20	54.00	-10.80
5457.10	Peak	56.98	1.26	58.24	74.00	-15.76
5460.00	Average	41.99	1.28	43.27	54.00	-10.73
5460.00	Peak	55.29	1.28	56.57	74.00	-17.43
5468.40	Peak	58.34	1.34	59.68	68.20	-8.52
5470.00	Peak	57.12	1.36	58.48	68.20	-9.72

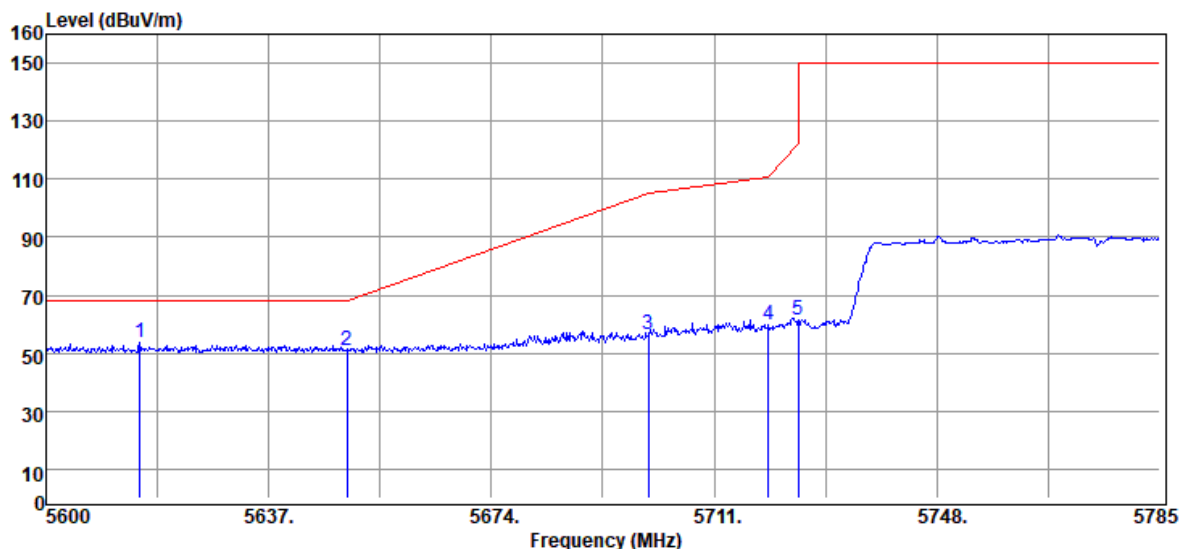
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5615.54	Peak	52.82	0.62	53.44	68.20	-14.76
5650.00	Peak	50.38	0.69	51.07	68.20	-17.13
5700.00	Peak	55.28	1.00	56.28	105.20	-48.92
5720.00	Peak	58.60	0.99	59.59	110.80	-51.21
5725.00	Peak	60.74	0.98	61.72	122.20	-60.48

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Report Number :E2/2020/50133

Operation Mode :802.11ac80 / Band 4

Test Frequency :5775 MHz

Test Mode :BE CH LOW

EUT Pol :E2 Plan

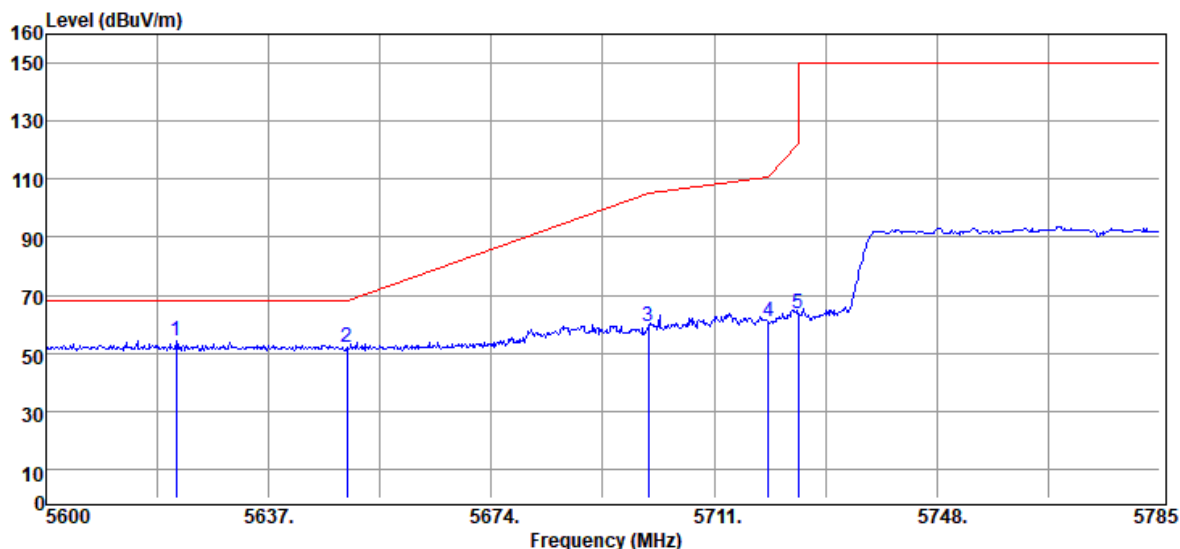
Test Site :966 Chamber D

Test Date :2020-06-22

Temp./Humi. :24.4/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5621.65	Peak	53.65	0.62	54.27	68.20	-13.93
5650.00	Peak	51.21	0.69	51.90	68.20	-16.30
5700.00	Peak	57.99	1.00	58.99	105.20	-46.21
5720.00	Peak	60.11	0.99	61.10	110.80	-49.70
5725.00	Peak	62.72	0.98	63.70	122.20	-58.50

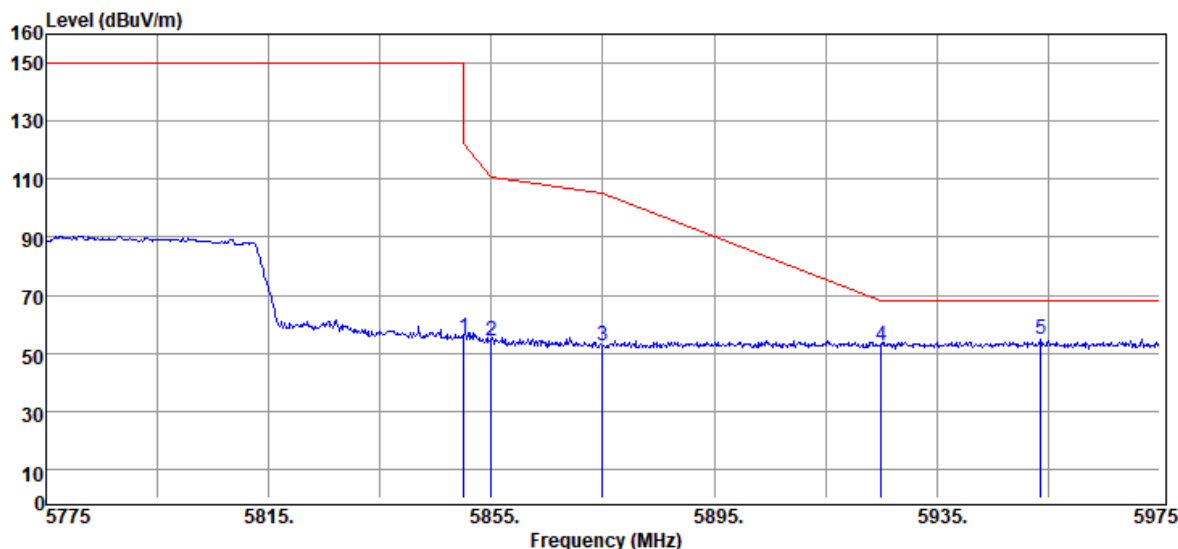
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Report Number :E2/2020/50133
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-06-22
Temp./Humi. :24.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



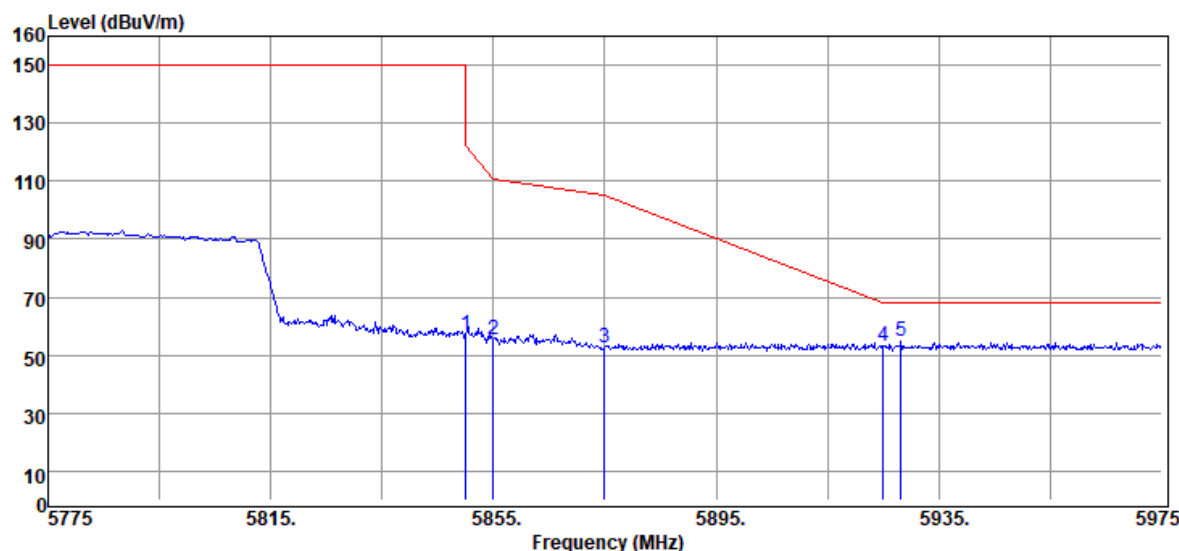
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	54.46	1.13	55.59	122.20	-66.61
5855.00	Peak	53.10	1.16	54.26	110.80	-56.54
5875.00	Peak	51.42	1.31	52.73	105.20	-52.47
5925.00	Peak	51.46	1.37	52.83	68.20	-15.37
5953.60	Peak	53.45	1.22	54.67	68.20	-13.53

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Report Number	:E2/2020/50133	Test Site	:966 Chamber D
Operation Mode	:802.11ac80 / Band 4	Test Date	:2020-06-22
Test Frequency	:5775 MHz	Temp./Humi.	:24.4/64
Test Mode	:BE CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kailin



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	55.89	1.13	57.02	122.20	-65.18
5855.00	Peak	54.29	1.16	55.45	110.80	-55.35
5875.00	Peak	51.49	1.31	52.80	105.20	-52.40
5925.00	Peak	51.86	1.37	53.23	68.20	-14.97
5928.20	Peak	53.47	1.35	54.82	68.20	-13.38

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

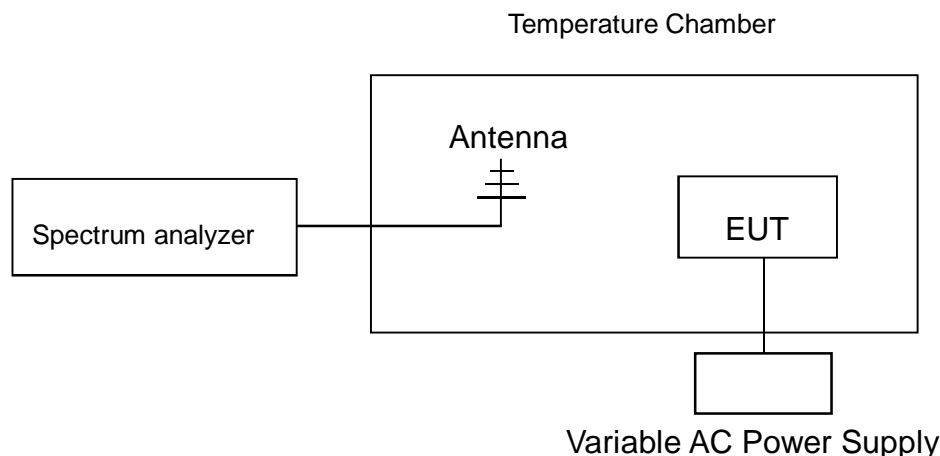
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	20200604
Temperature	: 25.9°C	Test By	Henry
Humidity	: 67%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	5.25	36	5180	5,179.99188	0.00000157
	4.75	36	5180	5,179.99208	0.00000153
25	5	36	5180	5,179.99190	0.00000156
35	5.25	36	5180	5,179.99156	0.00000163
	4.75	36	5180	5,179.99160	0.00000162

2 minutes

Operation Mode	802.11 a	Test Date	20200604
Temperature	: 25.9°C	Test By	Henry
Humidity	: 67%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	5.25	36	5180	5,179.99181	0.00000158
	4.75	36	5180	5,179.99146	0.00000165
25	5	36	5180	5,179.99164	0.00000161
35	5.25	36	5180	5,179.99187	0.00000157
	4.75	36	5180	5,179.99147	0.00000165

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5 minutes

Operation Mode	802.11 a	Test Date	20200604
Temperature	: 25.9°C	Test By	Henry
Humidity	: 67%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	5.25	36	5180	5,179.99156	0.00000163
	4.75	36	5180	5,179.99204	0.00000154
25	5	36	5180	5,179.99174	0.00000159
35	5.25	36	5180	5,179.99156	0.00000163
	4.75	36	5180	5,179.99164	0.00000161

10 minutes

Operation Mode	802.11 a	Test Date	20200604
Temperature	: 25.9°C	Test By	Henry
Humidity	: 67%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	5.25	36	5180	5,179.99196	0.00000155
	4.75	36	5180	5,179.99186	0.00000157
25	5	36	5180	5,179.99222	0.00000150
35	5.25	36	5180	5,179.99159	0.00000162
	4.75	36	5180	5,179.99155	0.00000163

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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 with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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