

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Product Name: Clover Flex

Brand Name: clover

Model No.: C403

Model Difference: N/A

Report Number: E2/2020/50041

FCC ID: HFS-C403V

FCC Rule Part: §15.407, Cat: NII

Issue Date: Jun. 16, 2020

Date of Test: May 14, 2020 ~ Jun. 10, 2020

**Date of EUT Re-
ceived:** May 14, 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: _____

Jay Lin

Jay Lin / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/50041	Rev.00	Original.	Jun. 16, 2020	Revised By: Karen Huang

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:	Clover Flex	
Brand Name:	clover	
Model No.:	C403	
Model Difference:	N/A	
Hardware Version:	4.01	
Software Version:	N/A	
Micro Hub:	Model No.: H400, Supplier: clover	
Docking:	Model No.: K400, Supplier: clover	
Power Supply:	7.6V from Li-ion Polymer rechargeable battery or 12V from Adapter	
	Battery:	Model No.: CA355772HV_POS5, Supplier: Zhuhai CosMX Battery Co., Ltd.
	Adapter:	Model No.: FSP040-RHBN3, Supplier: FSP
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)	Worst Antenna Gain
PIFA	SAA	DQ60AYF0002	5150~5250	2.24	-
			5250~5350	2.3	-
			5470~5725	3.64	-
			5725~5850	3.97	-

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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	16.38	OFDM
	5250~5350	4	16.45	
	5470~5725	12	16.46	
	5725~5850	5	16.48	
n_HT ac_VHT 20M	5150~5250	4	HT: 17.47	OFDM
	5250~5350	4	HT: 17.48	
	5470~5725	12	HT: 17.48	
	5725~5850	5	HT: 17.46	
n_HT ac_VHT 40M	5150~5250	2	HT: 16.48	OFDM
	5250~5350	2	HT: 16.39	
	5470~5725	6	HT: 16.48	
	5725~5850	2	HT: 16.35	
ac_VHT 80M	5150~5250	1	15.49	OFDM
	5250~5350	1	15.12	
	5470~5725	3	15.25	
	5725~5850	1	15.47	

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

The EUT is a 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

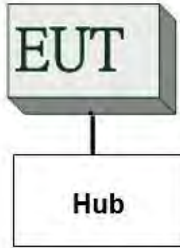


Fig 2-2 Conduction (AC Power Line) Emission

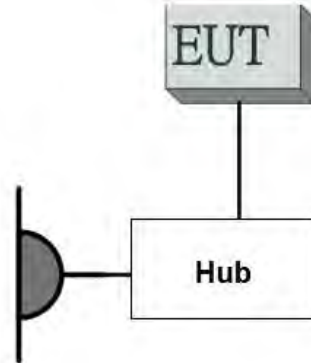


Table 2-1 Equipment Used in Tested System

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.	Hub	clover	H400	N/A	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 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		MCS 0	SISO
	5270~5310	54 to 62	54,62			
	5510~5710 5755~5795	102 to 142 151 to 159	102,110,134,142 151,159			
802.11ac_VHT80	5210	42	42		MCS0	SISO
	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 H position was reported.

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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(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021

6.3 EUT Setup

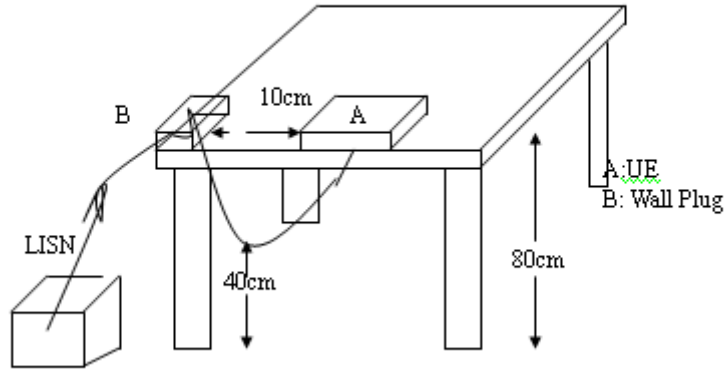
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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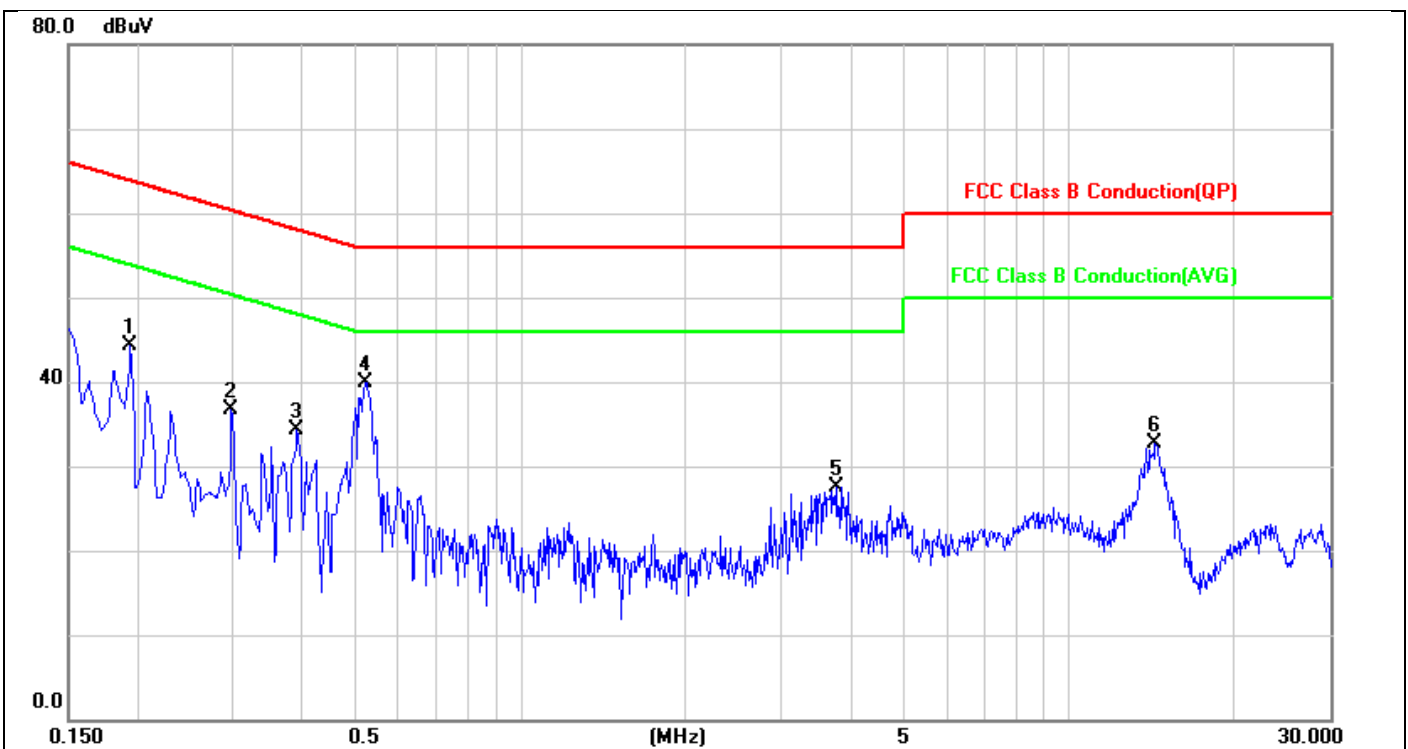
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Site: : Conduction Room C Limit: FCC Class B Conduction(QP) Mode: WLAN 5G Re-port: E2-2020-50041 Tester: Kailin	Date: 2020/5/29 Probe: L1 Power: AC120/60Hz	Time: PM 03:09:38 Temperature: 23.7 °C Humidity: 69 %RH Air Pressure: 1010 hpa
Note: EUT_Adaptador:FSP040-RHBN3		



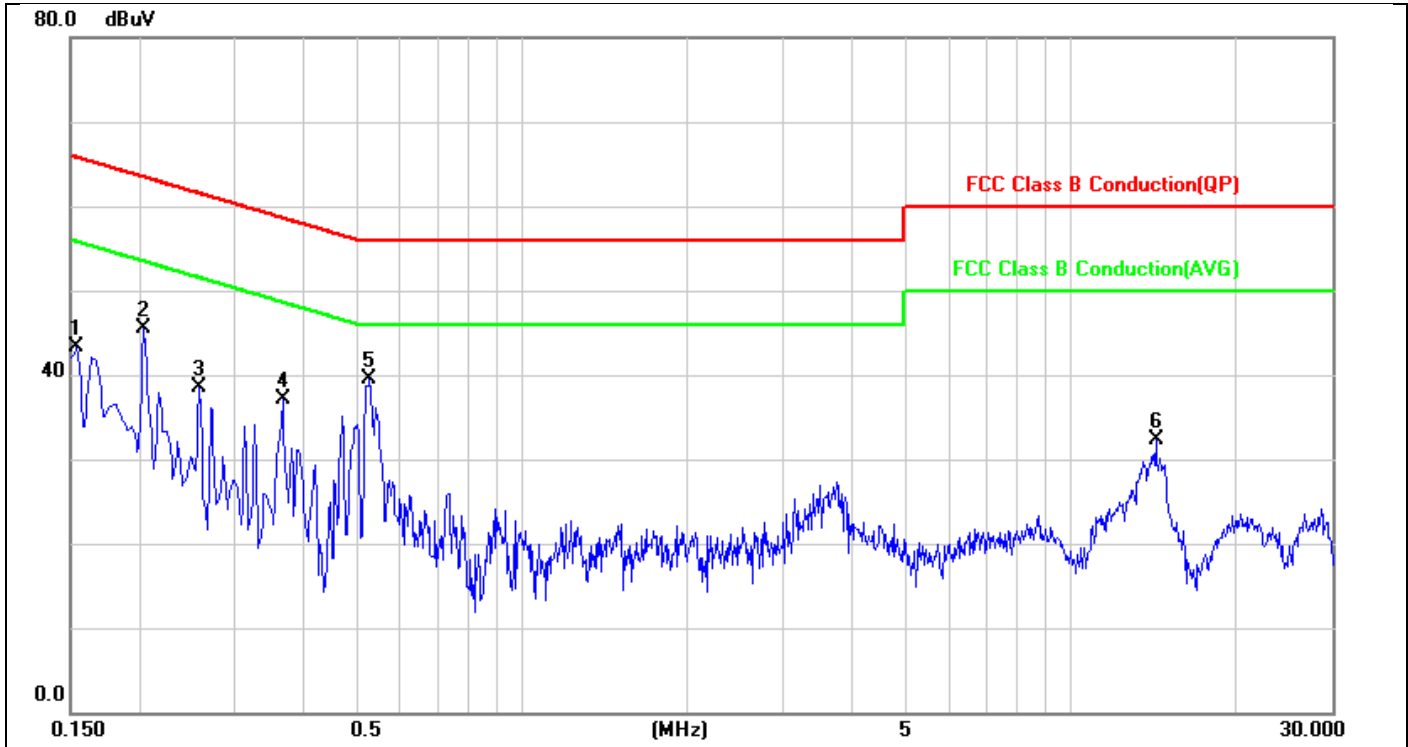
No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1950	34.16	10.22	44.38	63.82	-19.44	peak	
2		0.2985	26.55	10.22	36.77	60.28	-23.51	peak	
3		0.3930	24.05	10.22	34.27	58.00	-23.73	peak	
4	*	0.5235	29.65	10.22	39.87	56.00	-16.13	peak	
5		3.7725	17.07	10.48	27.55	56.00	-28.45	peak	
6		14.3700	21.98	10.77	32.75	60.00	-27.25	peak	

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Site: : Conduction Room C	Date: 2020/5/29	Time: PM 03:10:30
Limit: FCC Class B Conduction(QP)	Probe: N	Temperature: 23.7 °C
Mode: WLAN 5G	Power: AC120/60Hz	Humidity: 69 %RH
Re-port: E2-2020-50041		Air Pressure: 1010 hpa
Tester: Kailin		
Note: EUT_Adaptador:FSP040-RHBN3		



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1545	33.05	10.21	43.26	65.75	-22.49	peak	
2		0.2040	35.22	10.21	45.43	63.45	-18.02	peak	
3		0.2580	28.26	10.21	38.47	61.50	-23.03	peak	
4		0.3660	26.83	10.22	37.05	58.59	-21.54	peak	
5	*	0.5280	29.27	10.24	39.51	56.00	-16.49	peak	
6		14.3340	21.48	10.78	32.26	60.00	-27.74	peak	

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7 DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	95.83	0.18	0.48	1.00
802.11n_20	95.07	0.22	0.52	1.00
802.11ac_20	94.84	0.23	0.52	1.00
802.11n_40	91.30	0.40	1.06	2.00
802.11ac_40	91.39	0.39	1.05	2.00
802.11ac_80	84.70	0.72	2.15	3.00

Duty Cycle Factor: $10 * \log(1/0.9583) = 0.18$

Duty Cycle Factor: $10 * \log(1/0.9507) = 0.22$

Duty Cycle Factor: $10 * \log(1/0.9484) = 0.23$

Duty Cycle Factor: $10 * \log(1/0.913) = 0.4$

Duty Cycle Factor: $10 * \log(1/0.9139) = 0.39$

Duty Cycle Factor: $10 * \log(1/0.847) = 0.72$

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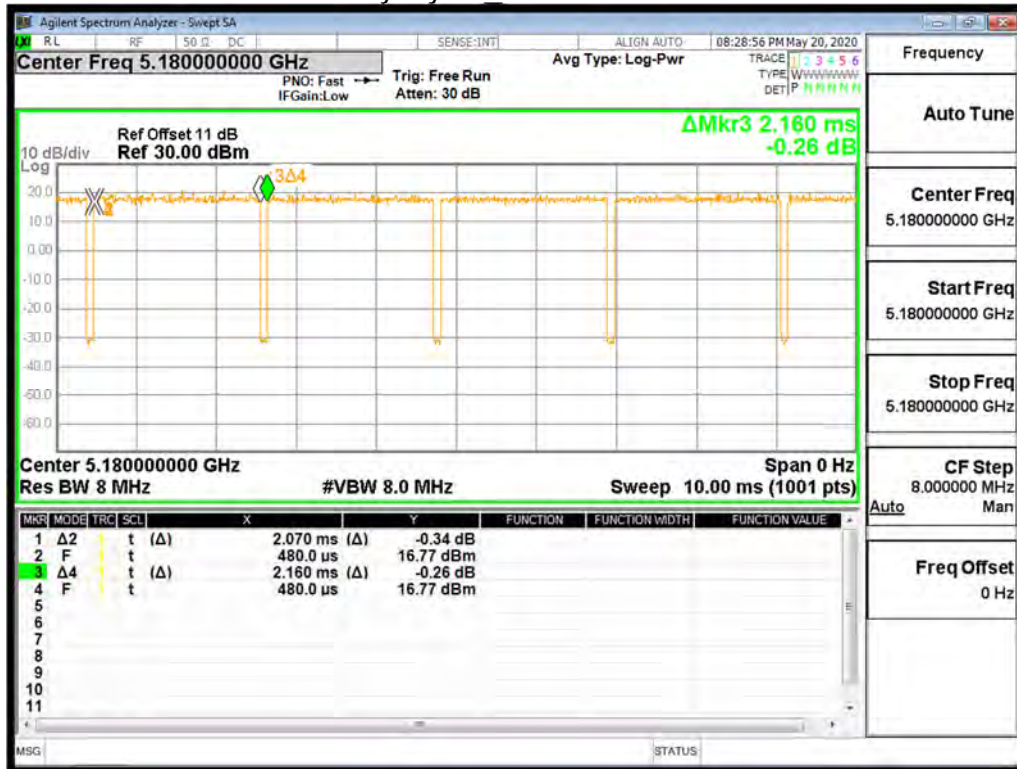
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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

Duty Cycle 802.11a mode



Duty Cycle 802.11n20 mode

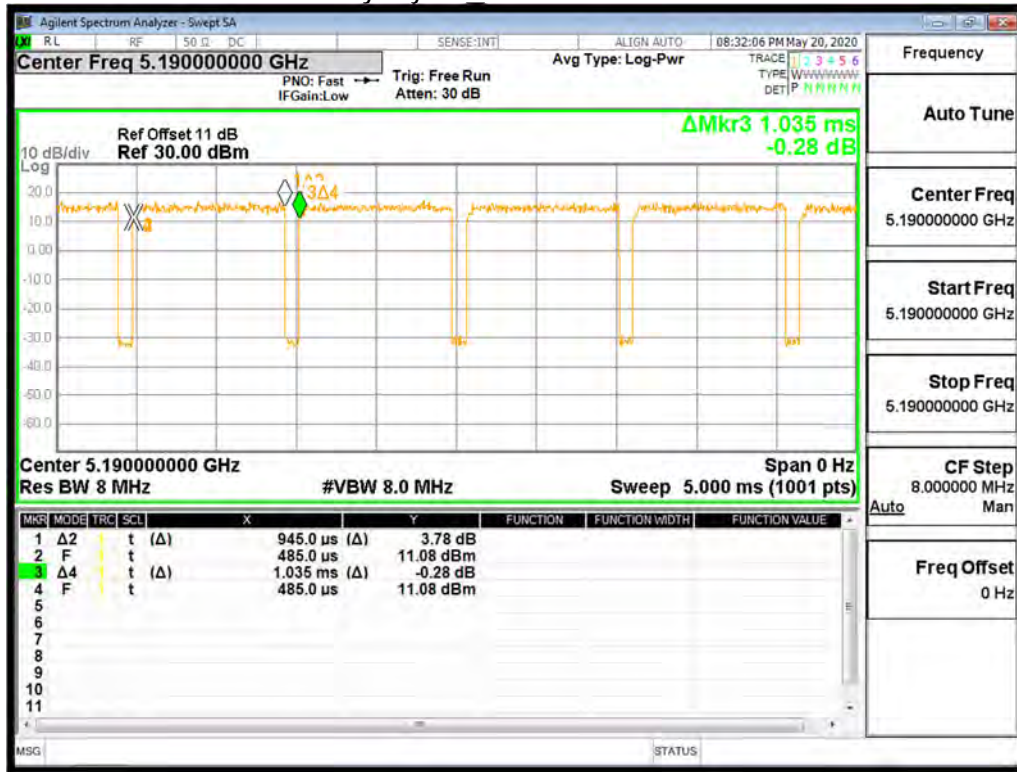


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Duty Cycle 802.11n40 mode



Duty Cycle 802.11ac20 mode

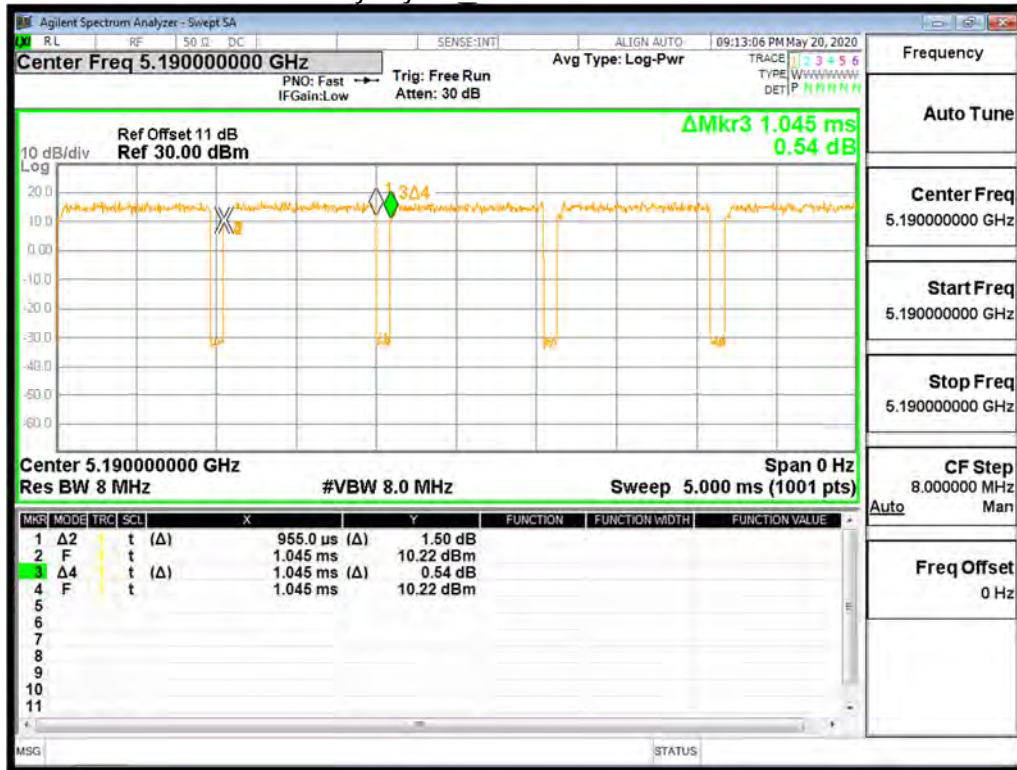


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Duty Cycle 802.11ac40 mode



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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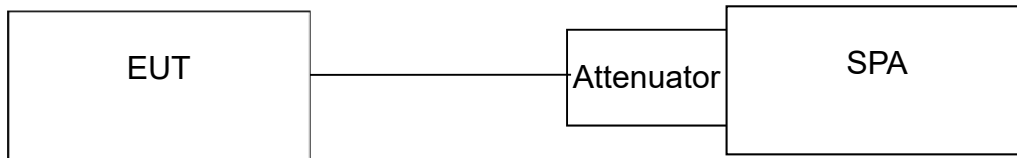
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8.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070240	04/14/2019	04/14/2021
DC Block	PASTERNAK	PE8210	RF29	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	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	22.87	13.593
5220	23.44	13.700
5240	24.1	13.820
5260	23.7	13.747
5300	24.13	13.826
5320	24.62	13.913
5500	23.6	13.729
5580	23.15	13.646
5700	24.43	13.879
5720	24.01	13.804

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	25.04	13.986
5220	24.74	13.934
5240	25.05	13.988
5260	25.61	14.084
5300	25.6	14.082
5320	27.44	14.384
5500	26.53	14.237
5580	25.87	14.128
5700	25.58	14.079
5720	24.83	13.950

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.85	16.112
5230	41	16.128
5270	41.03	16.131
5310	40.96	16.124
5510	40.5	16.075
5550	40.96	16.124
5670	40.62	16.087
5710	40.25	16.048

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.71	19.176
5290	82.28	19.153
5530	83.16	19.199
5610	83.06	19.194
5690	82.89	19.185

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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	15.91	12.017
5785	14.66	11.661
5825	14.48	11.608

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.13	11.798
5785	17.26	12.370
5825	16.72	12.232

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.22	15.468
5795	35.56	15.510

802.11ac_VHT80_Ch0

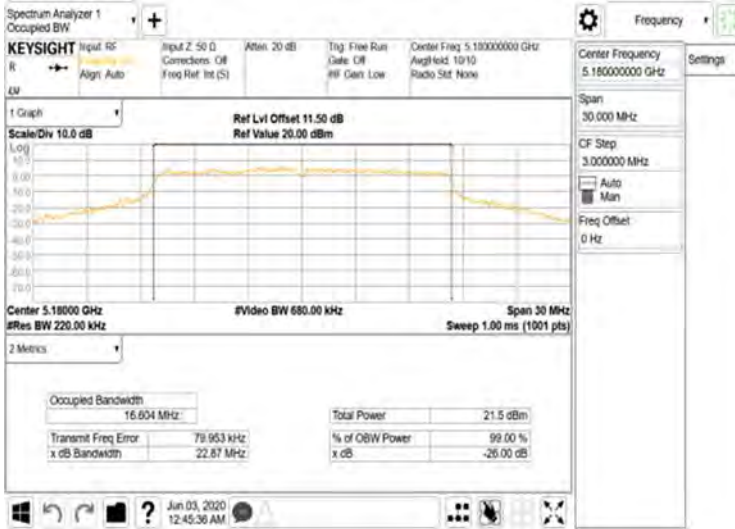
Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.25	18.765

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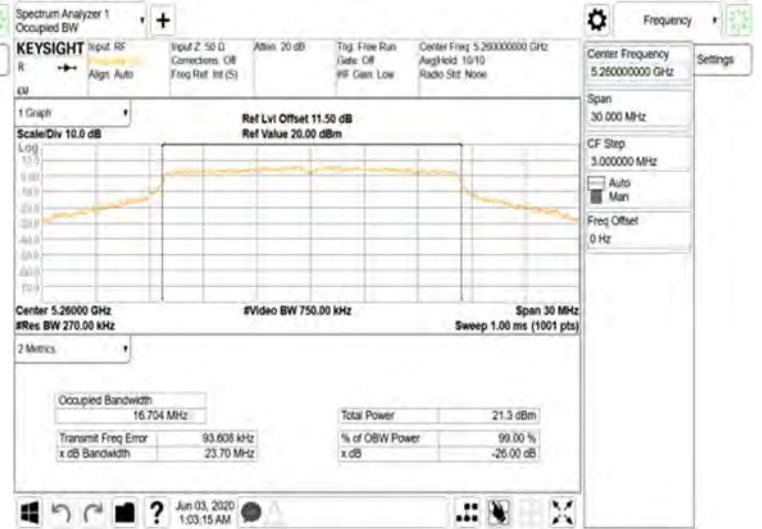
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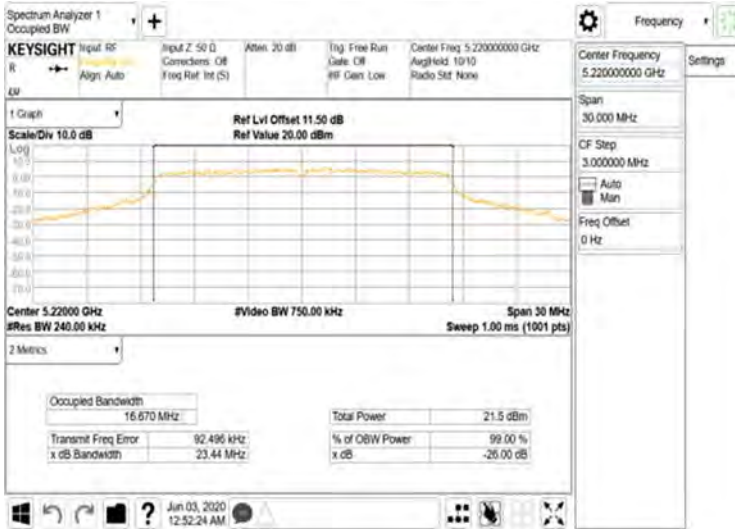
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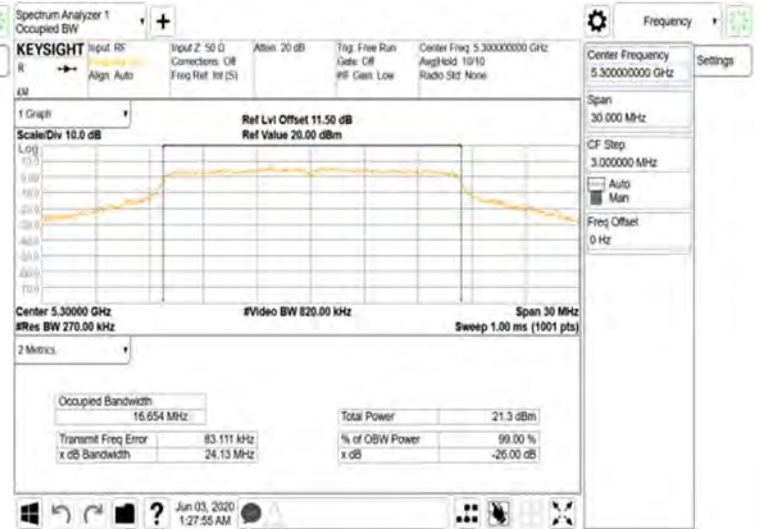
FCC_802.11a_20MHz_Chain0_5260MHz



FCC_802.11a_20MHz_Chain0_5220MHz



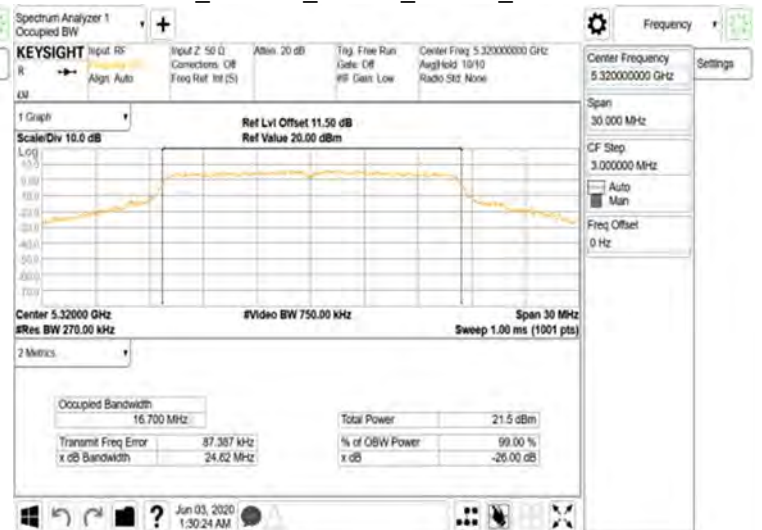
FCC_802.11a_20MHz_Chain0_5300MHz



FCC_802.11a_20MHz_Chain0_5240MHz



FCC_802.11a_20MHz_Chain0_5320MHz

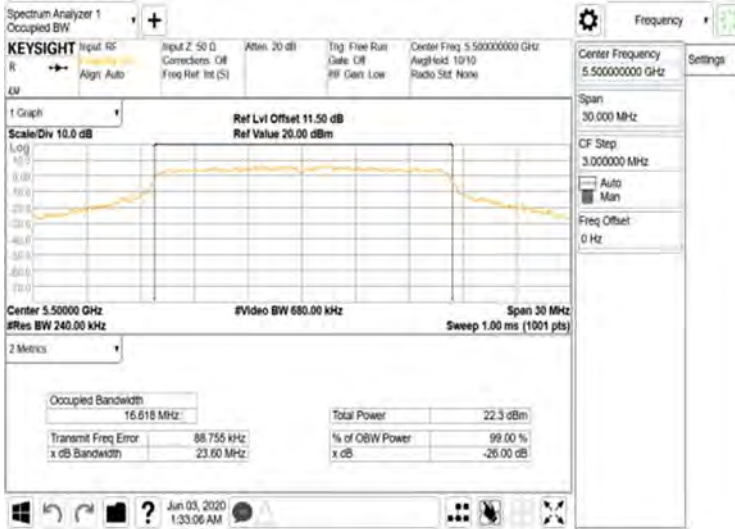


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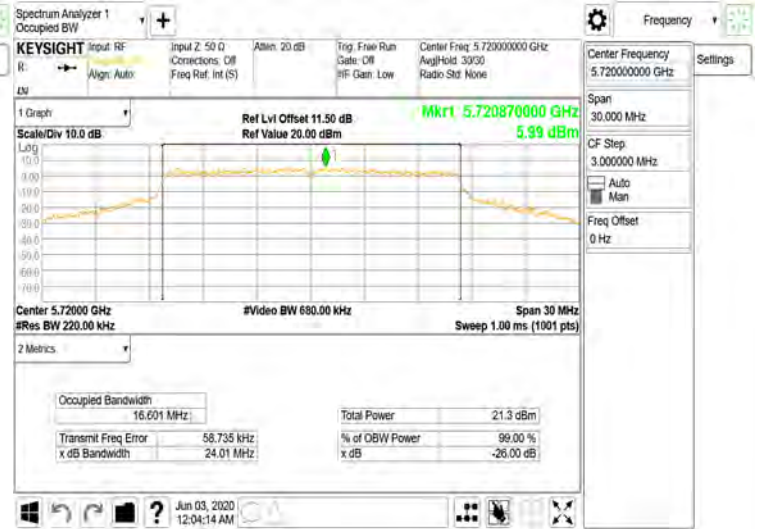
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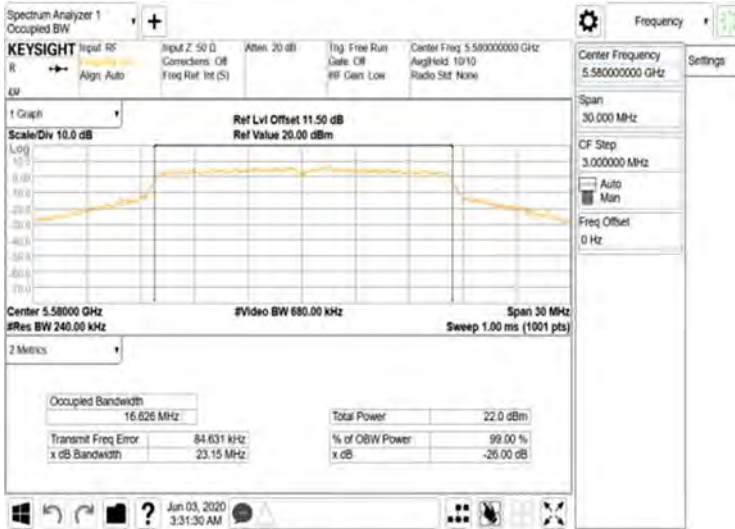
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FCC_802.11a_20MHz_Chain0_5720MHz



FCC_802.11a_20MHz_Chain0_5580MHz



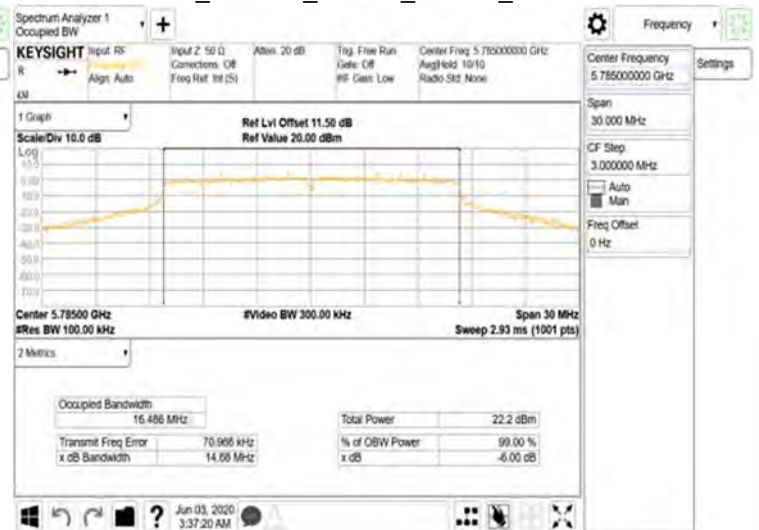
FCC_802.11a_20MHz_Chain0_5745MHz



FCC_802.11a_20MHz_Chain0_5700MHz



FCC_802.11a_20MHz_Chain0_5785MHz

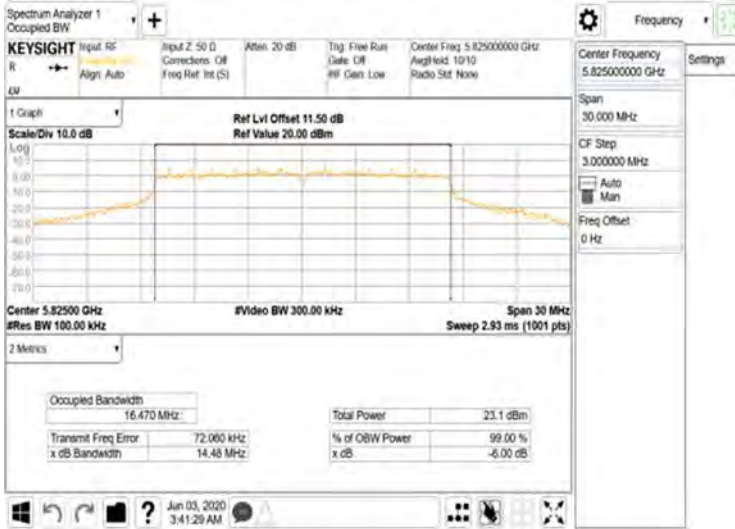


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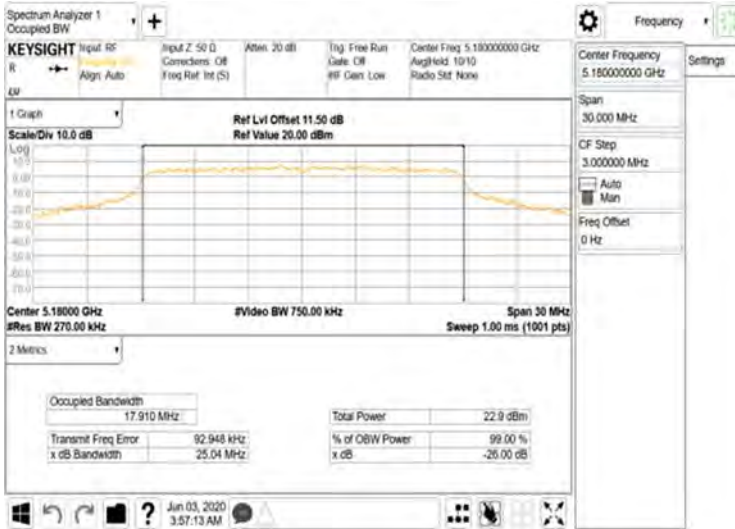
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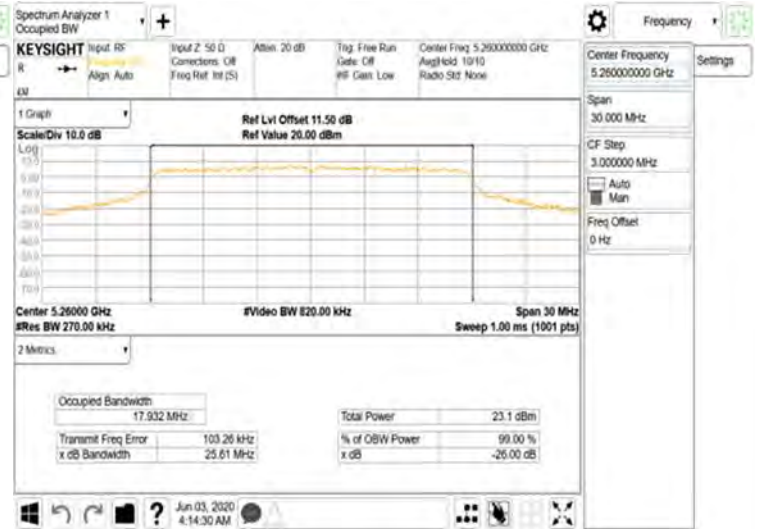
FCC_802.11n_20MHz_Chain0_5240MHz



FCC_802.11n_20MHz_Chain0_5180MHz



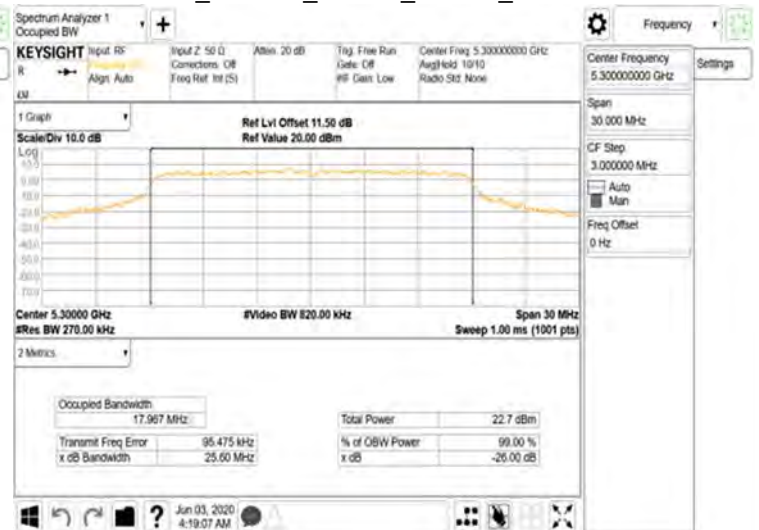
FCC_802.11n_20MHz_Chain0_5260MHz



FCC_802.11n_20MHz_Chain0_5220MHz



FCC_802.11n_20MHz_Chain0_5300MHz

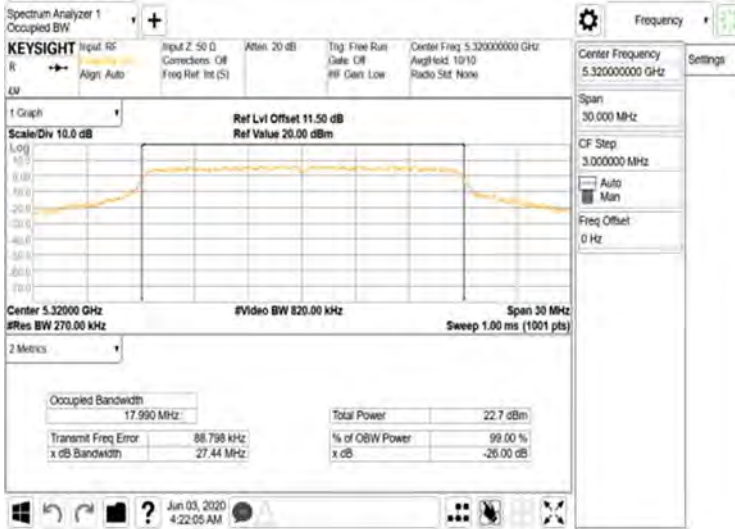


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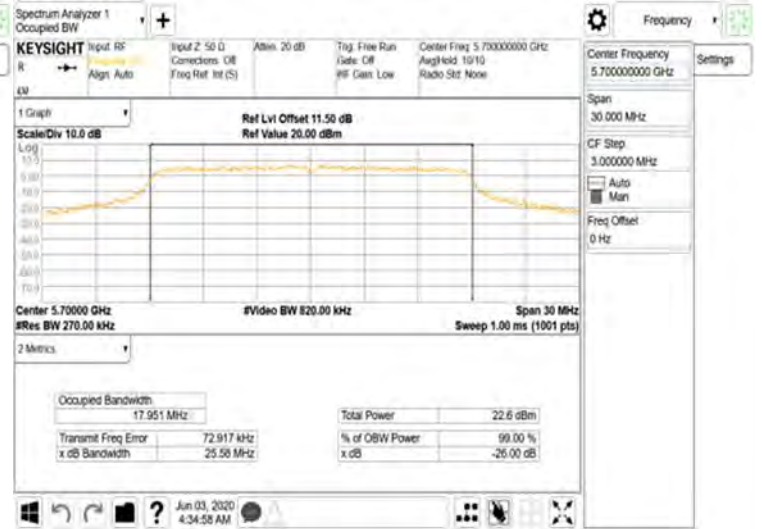
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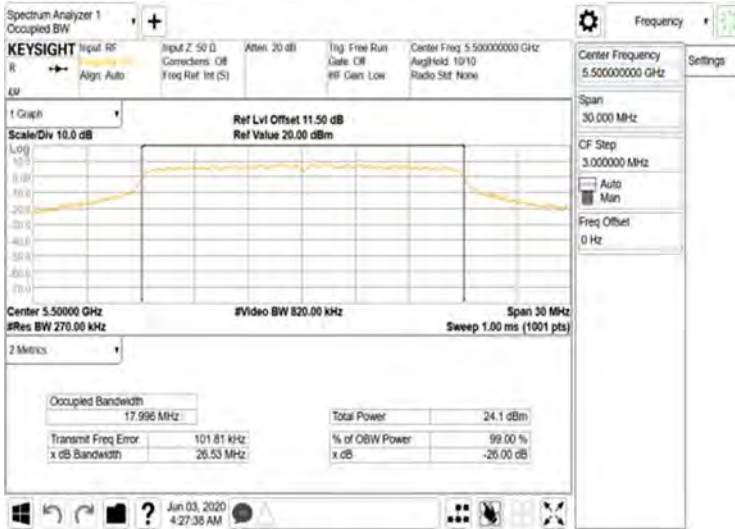
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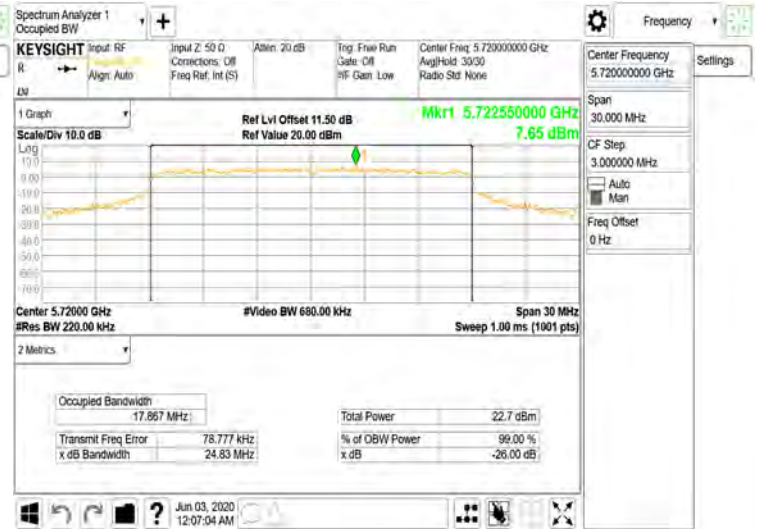
FCC_802.11n_20MHz_Chain0_5700MHz



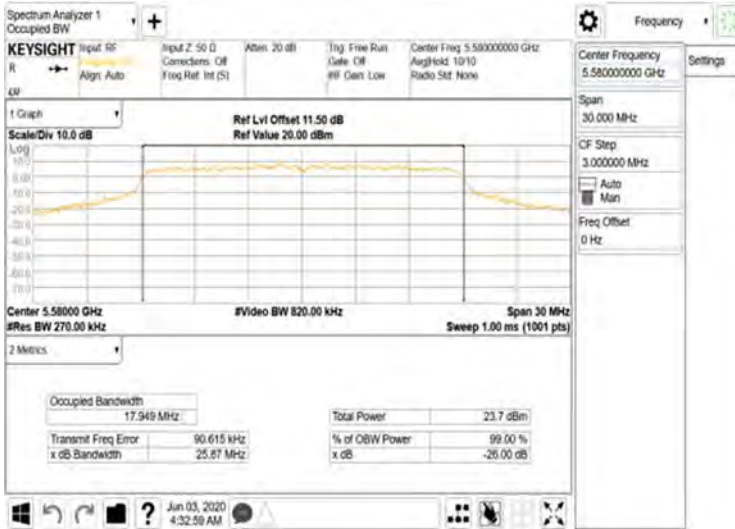
FCC_802.11n_20MHz_Chain0_5500MHz



FCC_802.11n_20MHz_Chain0_5720MHz



FCC_802.11n_20MHz_Chain0_5580MHz



FCC_802.11n_20MHz_Chain0_5745MHz

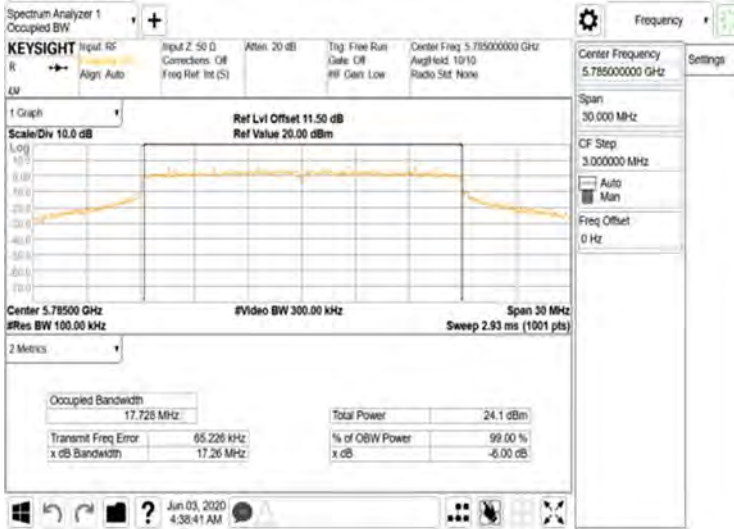


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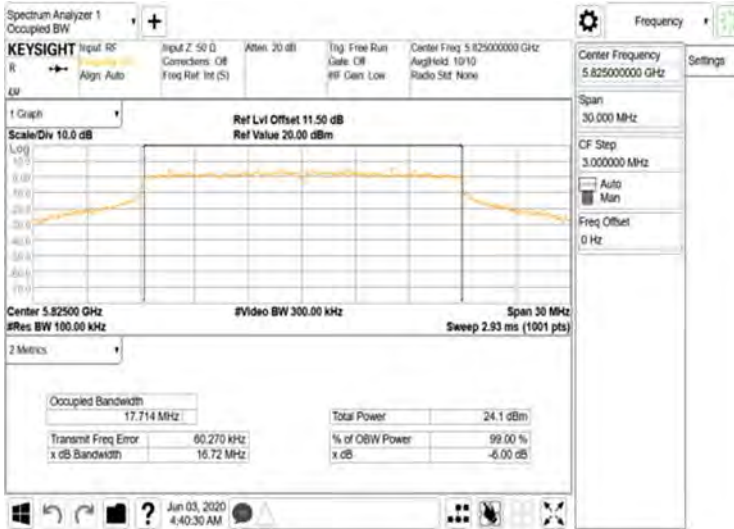
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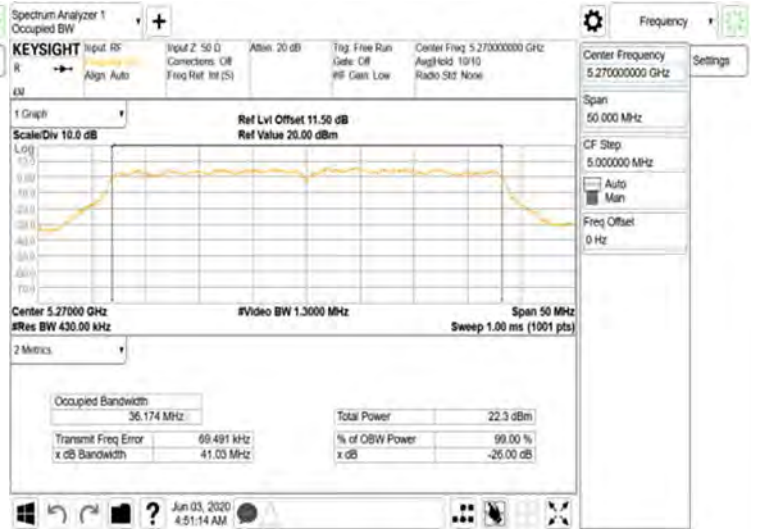
FCC_802.11n_40MHz_Chain0_5230MHz



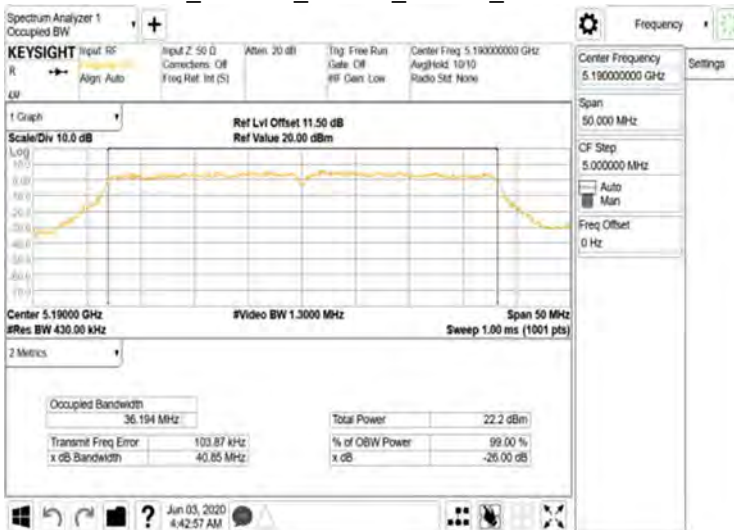
FCC_802.11n_20MHz_Chain0_5825MHz



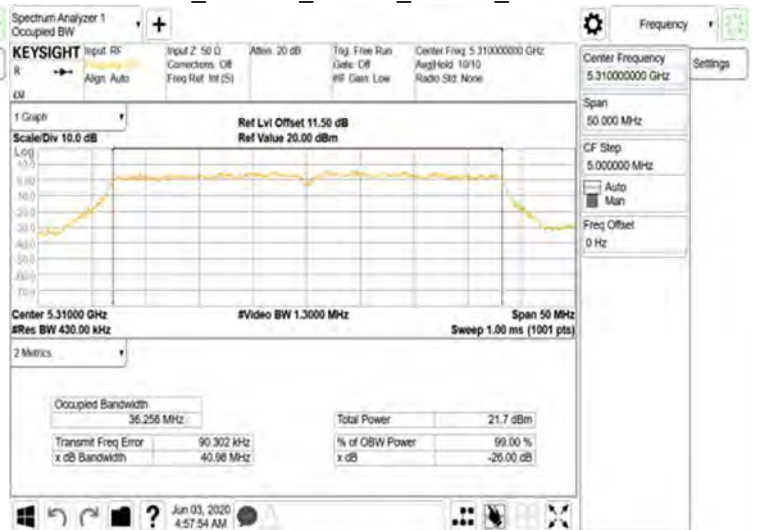
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FCC_802.11n_40MHz_Chain0_5190MHz



FCC_802.11n_40MHz_Chain0_5310MHz

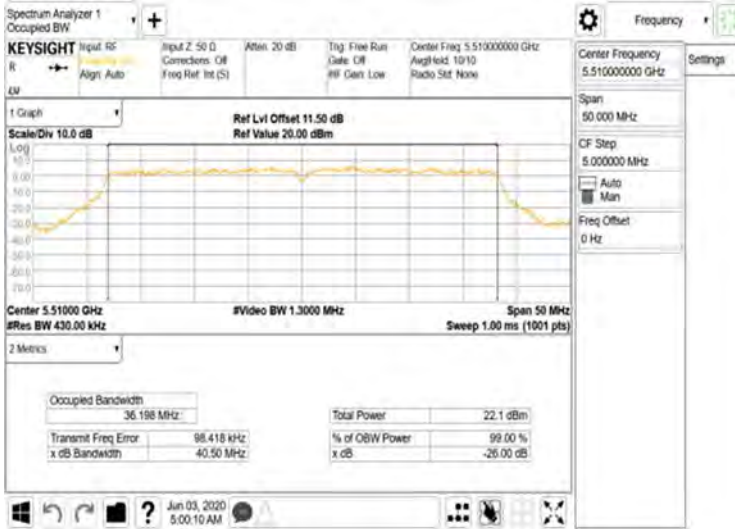


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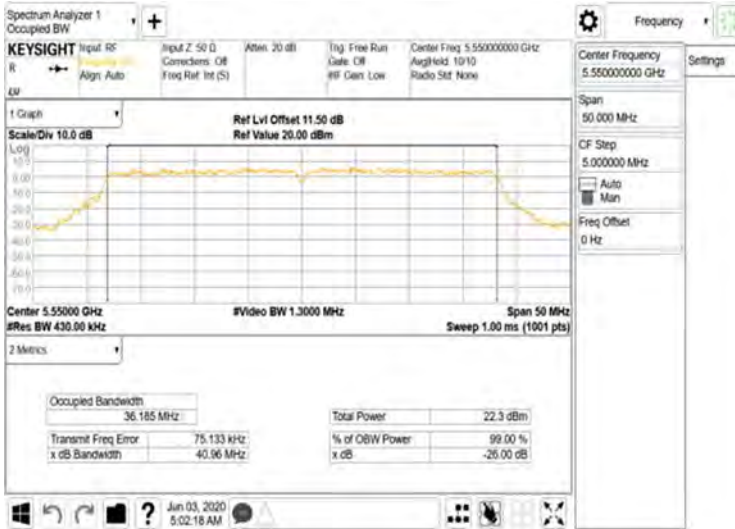
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FCC_802.11n_40MHz_Chain0_5710MHz



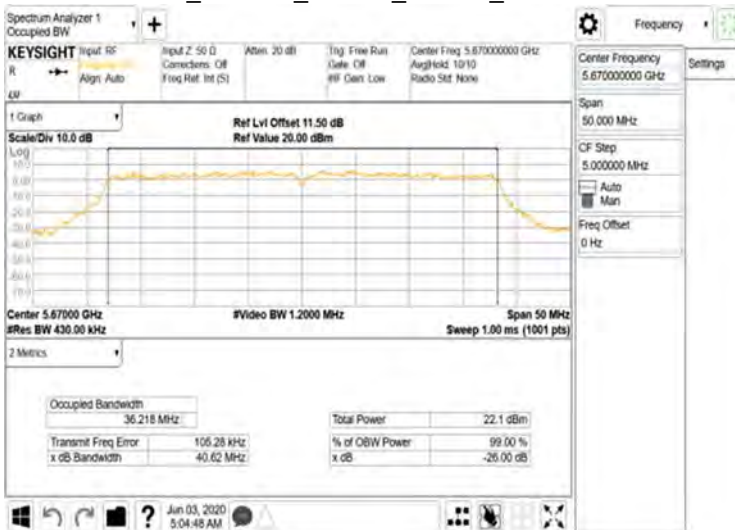
FCC_802.11n_40MHz_Chain0_5550MHz



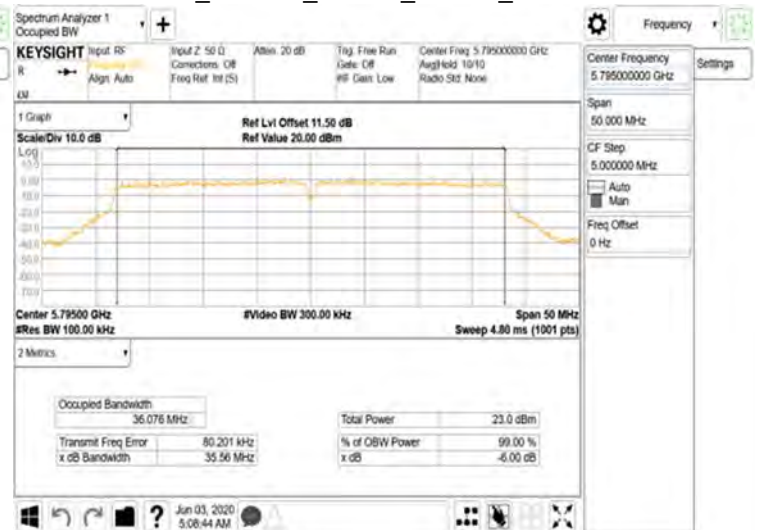
FCC_802.11n_40MHz_Chain0_5755MHz



FCC_802.11n_40MHz_Chain0_5670MHz



FCC_802.11n_40MHz_Chain0_5795MHz



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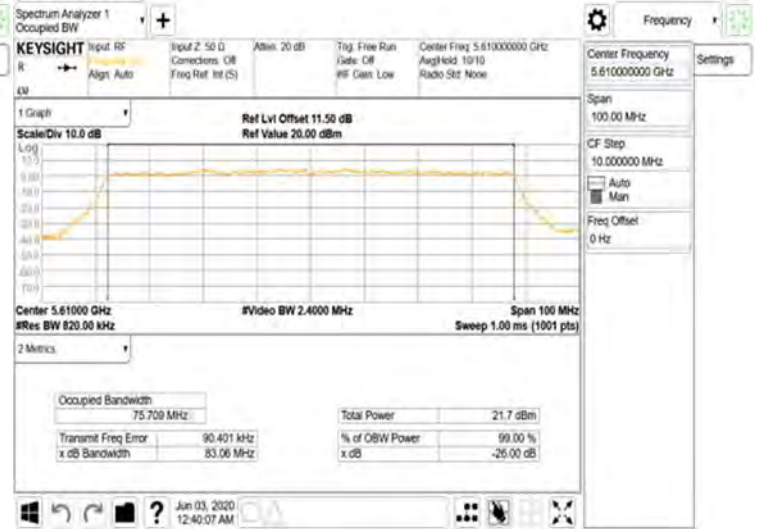
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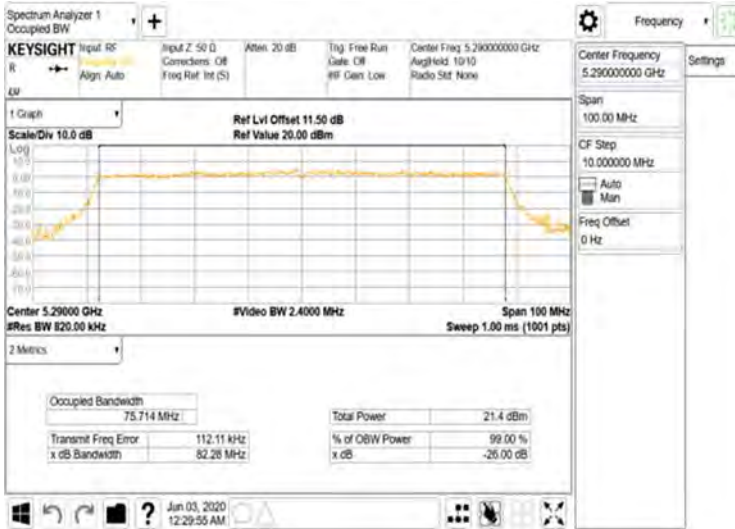
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FCC_802.11ac_80MHz_Chain0_5610MHz



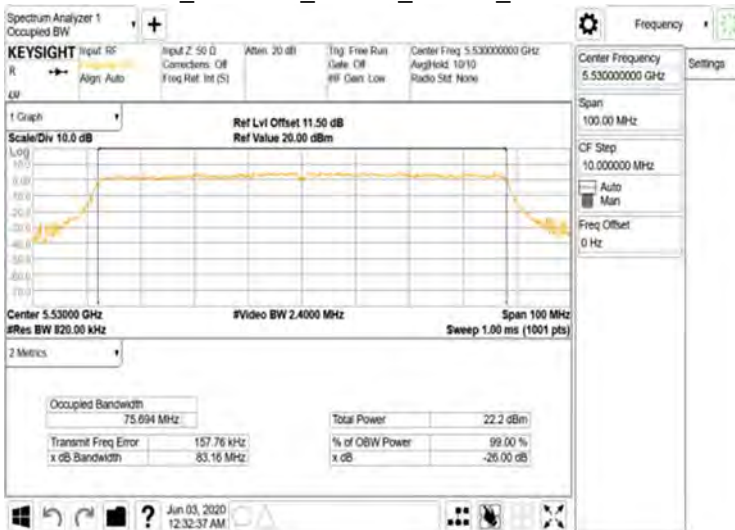
FCC_802.11ac_80MHz_Chain0_5290MHz



FCC_802.11ac_80MHz_Chain0_5690MHz



FCC_802.11ac_80MHz_Chain0_5530MHz



FCC_802.11ac_80MHz_Chain0_5775MHz



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8.5.3 99% BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.39	< 5250
5745	5736.65	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.00	< 5250
5745	5736.03	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.92	> 5725

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.83	< 5250
5775	5737.19	> 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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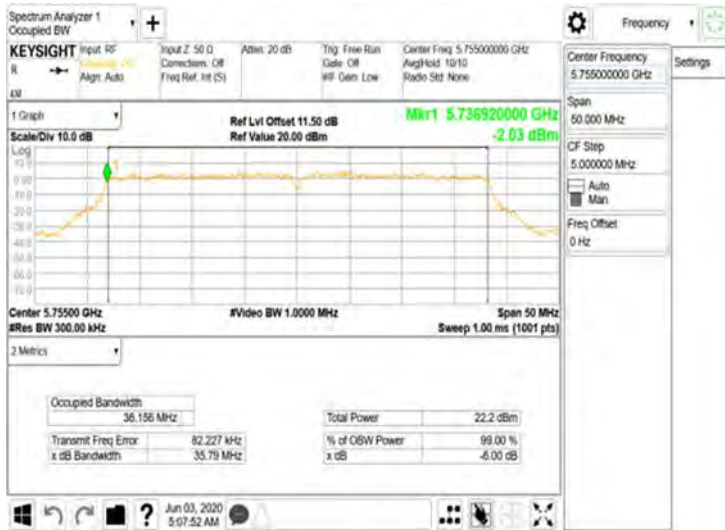
802.11n_40MHz_5230MHz (Ch0)



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

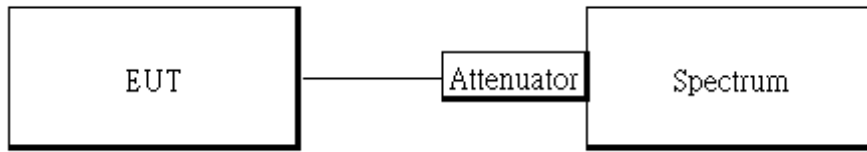
SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUM-BER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070240	04/14/2019	04/14/2021
DC Block	PASTER-NACK	PE8210	RF29	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

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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	16.15	41.257	23.98	PASS
44	5220	6	16.34	43.102	23.98	PASS
48	5240	6	16.38	43.501	23.98	PASS
52	5260	6	16.45	44.208	23.98 or $11+10\log(B) = 24.75$	PASS
60	5300	6	16.35	43.201	23.98 or $11+10\log(B) = 24.83$	PASS
64	5320	6	16.40	43.702	23.98 or $11+10\log(B) = 24.91$	PASS
100	5500	6	16.46	44.310	23.98 or $11+10\log(B) = 24.73$	PASS
116	5580	6	16.21	41.831	23.98 or $11+10\log(B) = 24.65$	PASS
140	5700	6	16.41	43.802	23.98 or $11+10\log(B) = 24.88$	PASS
144	5720(U-NII 2C)	6	14.95	31.24	23.98 or $11+10\log(B) = 24.80$	PASS
144	5720 (U-NII 3)	6	11.10	12.87	30	PASS
149	5745	6	16.31	42.805	30	PASS
157	5785	6	16.39	43.601	30	PASS
165	5825	6	16.48	44.514	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	17.47	55.841	23.98	PASS
44	5220	MCS0	17.41	55.075	23.98	PASS
48	5240	MCS0	17.45	55.585	23.98	PASS
52	5260	MCS0	17.48	55.970	23.98 or $11+10\log(B) = 25.08$	PASS
60	5300	MCS0	17.46	55.713	23.98 or $11+10\log(B) = 25.08$	PASS
64	5320	MCS0	17.43	55.329	23.98 or $11+10\log(B) = 25.38$	PASS
100	5500	MCS0	17.44	55.457	23.98 or $11+10\log(B) = 25.24$	PASS
116	5580	MCS0	17.48	55.970	23.98 or $11+10\log(B) = 25.13$	PASS
140	5700	MCS0	17.40	54.949	23.98 or $11+10\log(B) = 25.08$	PASS
144	5720(U-NII 2C)	MCS0	15.94	39.26	23.98 or $11+10\log(B) = 24.95$	PASS
144	5720 (U-NII 3)	MCS0	12.23	16.71	30	PASS
149	5745	MCS0	17.45	55.585	30	PASS
157	5785	MCS0	17.46	55.713	30	PASS
165	5825	MCS0	17.42	55.202	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.48	44.415	23.98	PASS
46	5230	MCS0	16.46	44.211	23.98	PASS
54	5270	MCS0	16.35	43.105	23.98 or $11+10\log(B) = 27.13$	PASS
62	5310	MCS0	16.39	43.504	23.98 or $11+10\log(B) = 27.12$	PASS
102	5510	MCS0	16.44	44.008	23.98 or $11+10\log(B) = 27.07$	PASS
110	5550	MCS0	16.48	44.415	23.98 or $11+10\log(B) = 27.12$	PASS
134	5670	MCS0	16.36	43.205	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710(U-NII 2C)	MCS0	15.77	37.79	23.98 or $11+10\log(B) = 27.05$	PASS
142	5710 (U-NII 3)	MCS0	7.41	5.51	30	PASS
151	5755	MCS0	16.35	43.105	30	PASS
159	5795	MCS0	16.30	42.612	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	15.49	35.409	23.98	PASS
58	5290	MCS0	15.12	32.517	23.98 or $11+10\log(B) = 30.15$	PASS
106	5530	MCS0	15.25	33.506	23.98 or $11+10\log(B) = 30.20$	PASS
122	5610	MCS0	15.03	31.851	23.98 or $11+10\log(B) = 30.19$	PASS
138	5690(U-NII 2C)	MCS0	14.75	29.85	23.98 or $11+10\log(B) = 30.19$	PASS
138	5690 (U-NII 3)	MCS0	4.01	2.52	30	PASS
155	5775	MCS0	15.47	35.247	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

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

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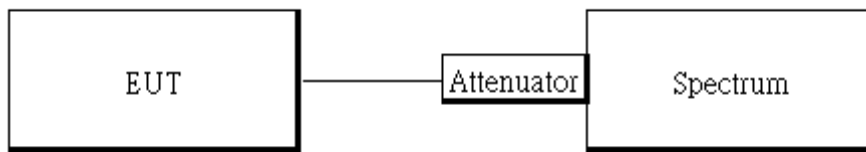
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10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070240	04/14/2019	04/14/2021
DC Block	PASTER-NACK	PE8210	RF29	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	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	4.796	0.18	4.98	11.00	-6.02
5220.00	4.698	0.18	4.88	11.00	-6.12
5240.00	4.776	0.18	4.96	11.00	-6.04
5260.00	4.774	0.18	4.96	11.00	-6.04
5300.00	4.402	0.18	4.59	11.00	-6.41
5320.00	4.469	0.18	4.65	11.00	-6.35
5500.00	5.074	0.18	5.26	11.00	-5.74
5580.00	4.848	0.18	5.03	11.00	-5.97
5700.00	5.606	0.18	5.79	11.00	-5.21
5720 (U-NII 2C)	5.599	0.18	5.78	11.00	-5.22
5720 (U-NII 3)	1.395	0.18	1.58	30.00	-28.42
5745.00	2.564	0.18	2.75	30.00	-27.25
5785.00	2.885	0.18	3.07	30.00	-26.93
5825.00	3.387	0.18	3.57	30.00	-26.43

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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	5.890	0.22	6.11	11	-4.89
5220	6.130	0.22	6.35	11	-4.65
5240	5.964	0.22	6.18	11	-4.82
5260	5.835	0.22	6.05	11	-4.95
5300	5.715	0.22	5.93	11	-5.07
5320	5.590	0.22	5.81	11	-5.19
5500	6.303	0.22	6.52	11	-4.48
5580	5.729	0.22	5.95	11	-5.05
5700	6.041	0.22	6.26	11	-4.74
5720 (U-NII 2C)	7.097	0.22	7.32	11	-3.68
5720 (U-NII 3)	2.717	0.22	2.94	30	-27.06
5745	3.705	0.22	3.92	30	-26.08
5785	4.326	0.22	4.55	30	-25.45
5825	4.020	0.22	4.24	30	-25.76

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	1.553	0.40	1.95	11	-9.05
5230	1.517	0.40	1.91	11	-9.09
5270	1.125	0.40	1.52	11	-9.48
5310	0.981	0.40	1.38	11	-9.62
5510	1.547	0.40	1.94	11	-9.06
5550	2.345	0.40	2.74	11	-8.26
5670	1.654	0.40	2.05	11	-8.95
5710 (U-NII 2C)	2.382	0.40	2.78	11	-8.22
5710 (U-NII 3)	-2.345	0.40	-1.95	30	-31.95
5755	-0.994	0.40	-0.60	30	-30.60
5795	-0.739	0.40	-0.34	30	-30.34

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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	-3.043	0.72	-2.32	11	-13.32
5290	-3.881	0.72	-3.16	11	-14.16
5530	-2.934	0.72	-2.21	11	-13.21
5610	-3.422	0.72	-2.70	11	-13.70
5690 (U-NII 2C)	-3.052	0.72	-2.33	11	-13.33
5690 (U-NII 3)	-7.464	0.72	-6.74	30	-36.74
5775	-5.219	0.72	-4.50	30	-34.50

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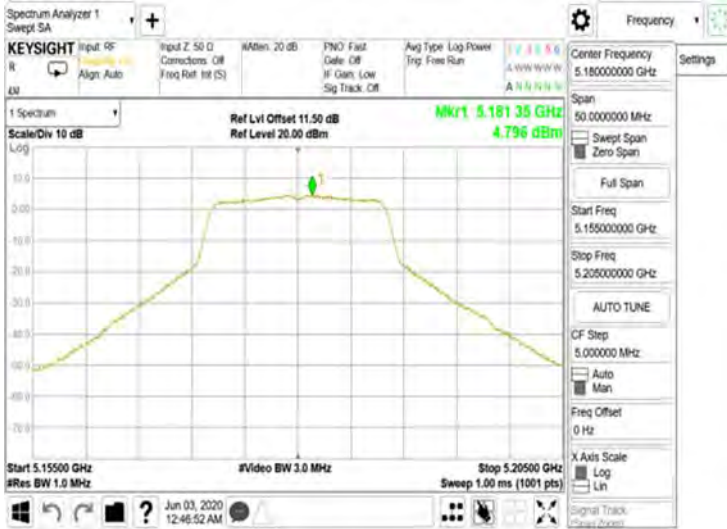
t (886-2) 2299-3279

f (886-2) 2298-0488

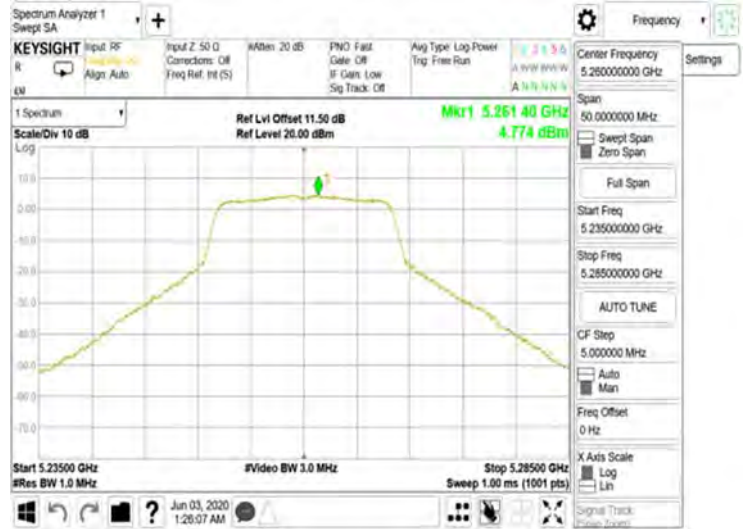
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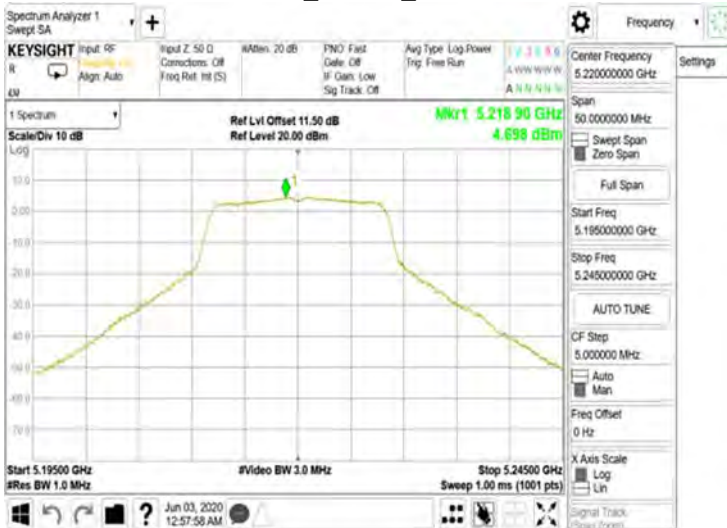
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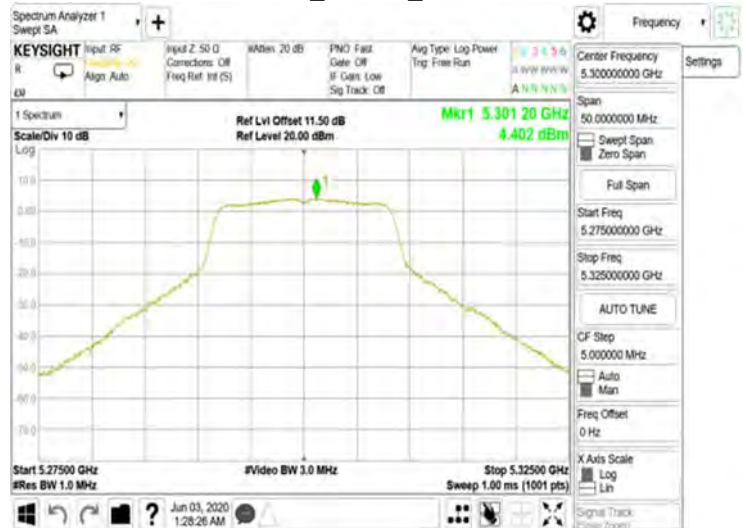
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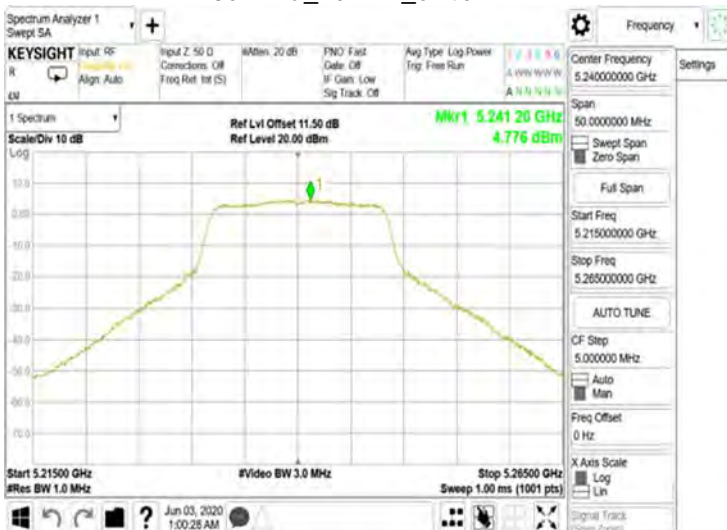
802.11a_20MHz_5220MHz



802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

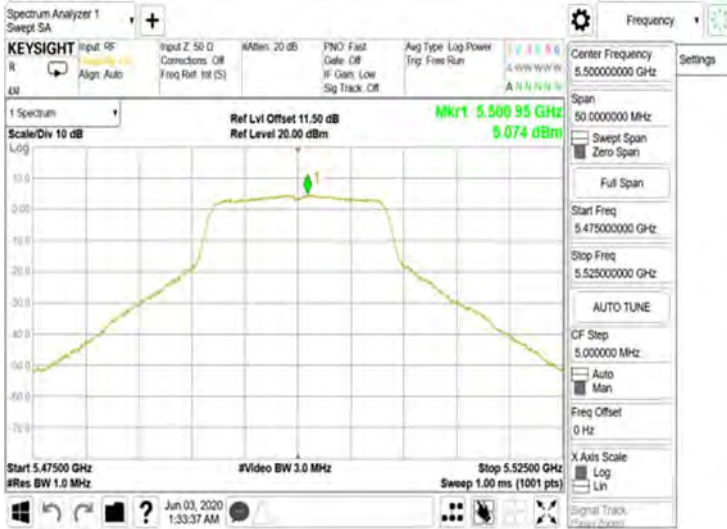


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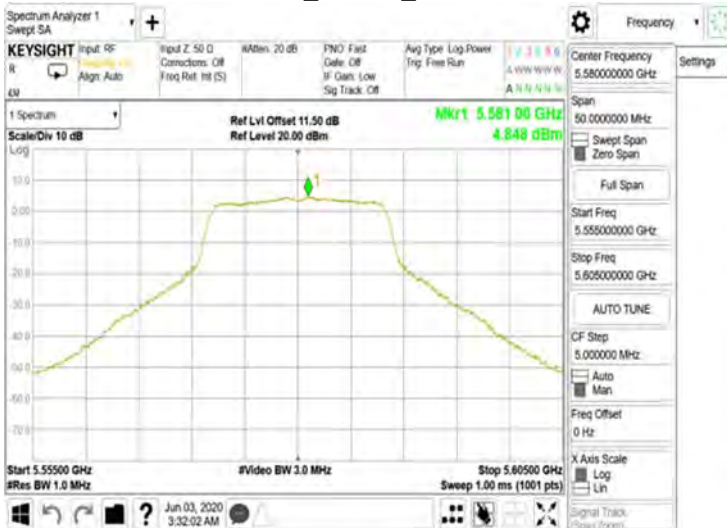
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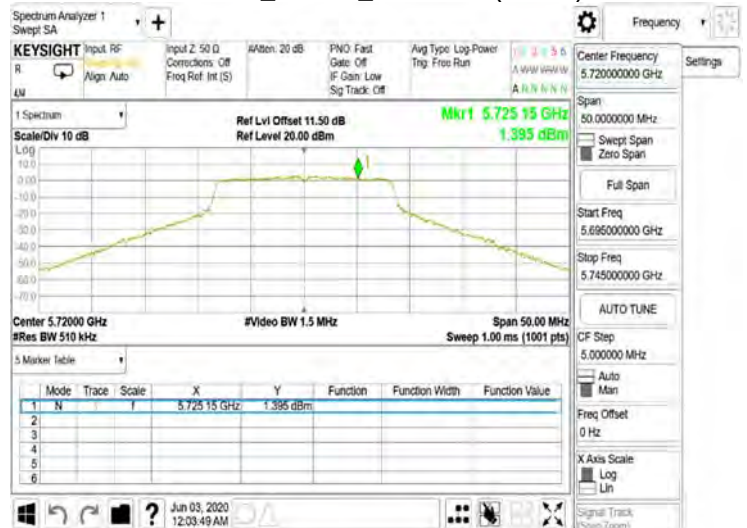
802.11a_20MHz_5720MHz (UNII 2C)



802.11a_20MHz_5580MHz



802.11a_20MHz_5720MHz (UNII 3)



802.11a_20MHz_5700MHz



802.11a_20MHz_5745MHz

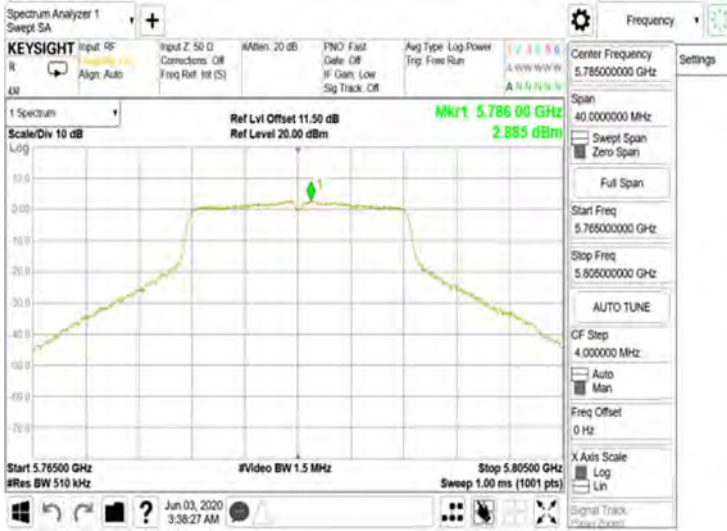


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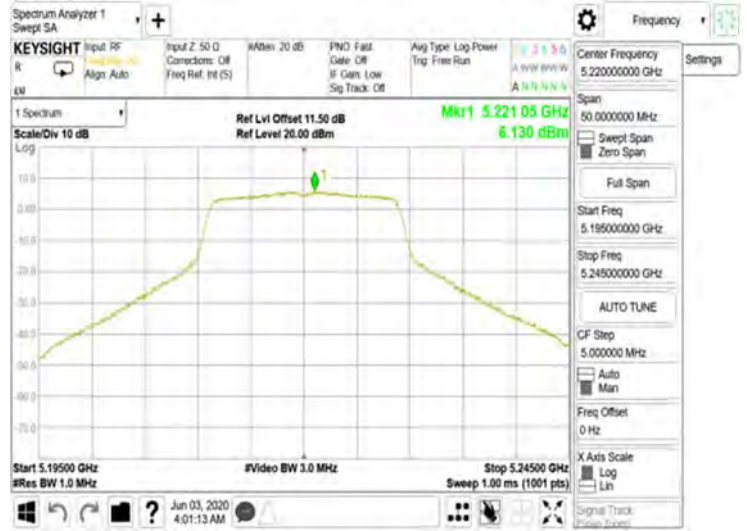
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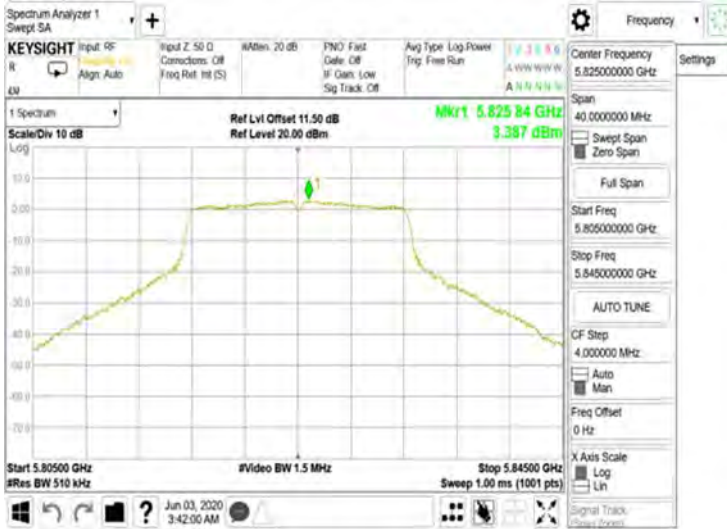
802.11a_20MHz_5785MHz



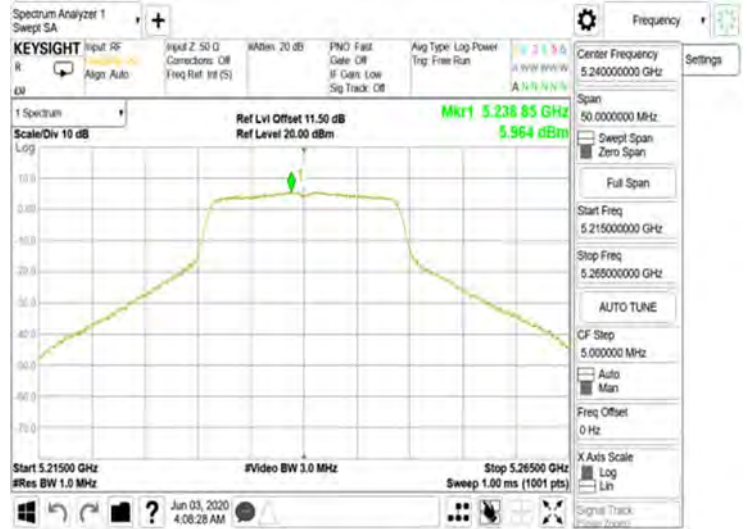
802.11n_20MHz_5220MHz



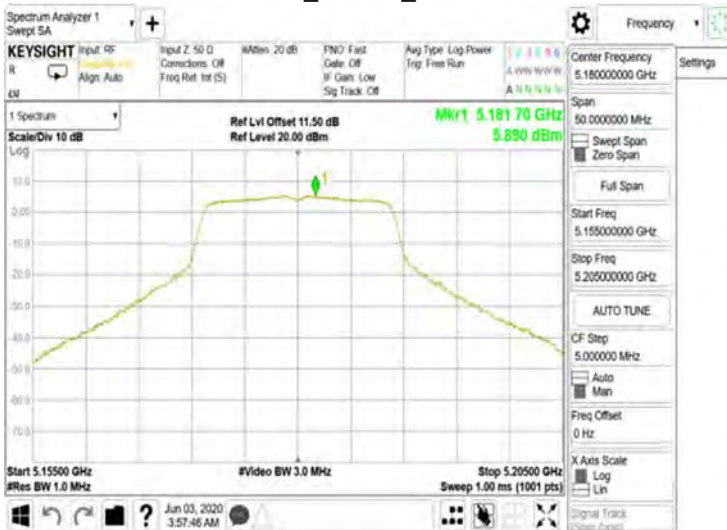
802.11a_20MHz_5825MHz



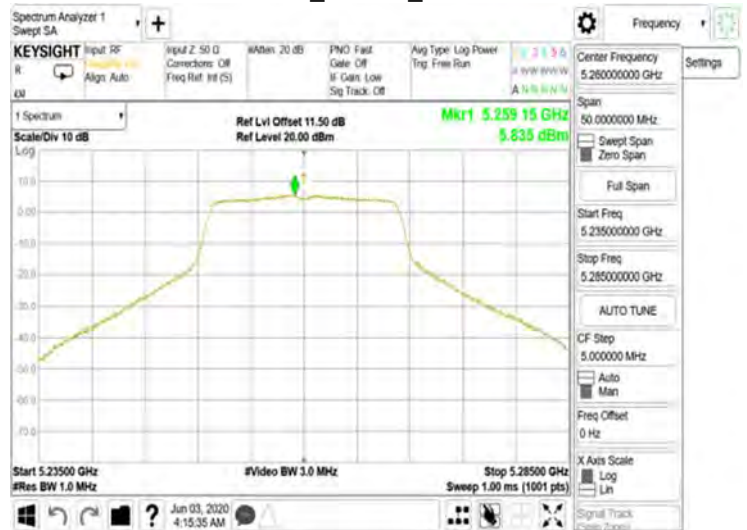
802.11n_20MHz_5240MHz



802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz

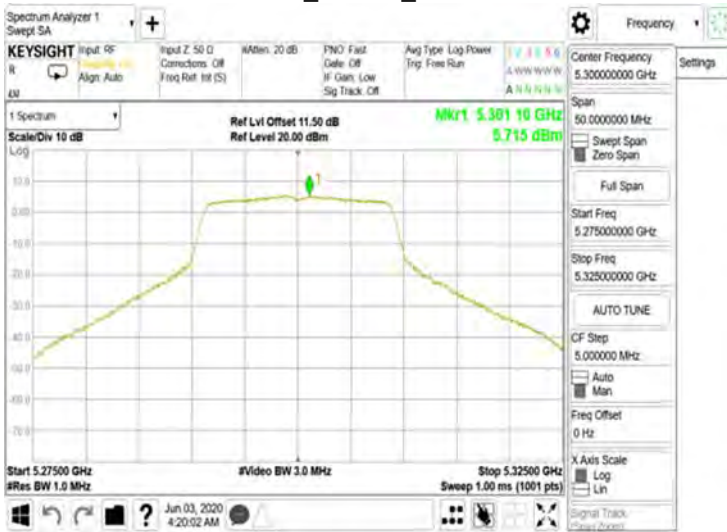


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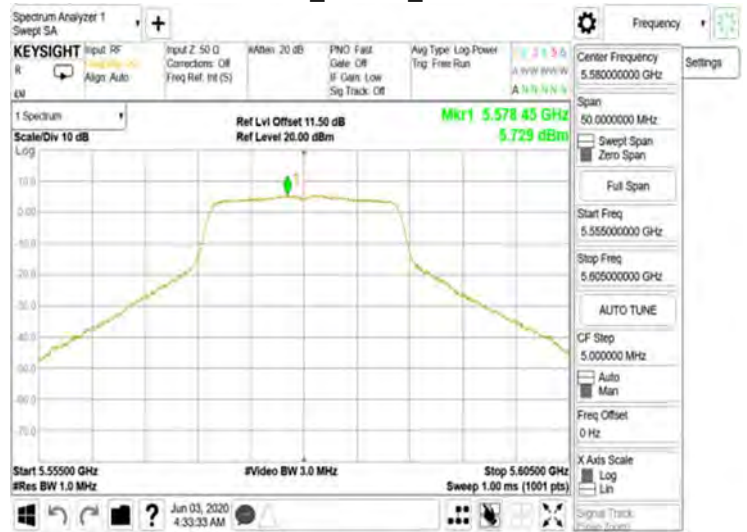
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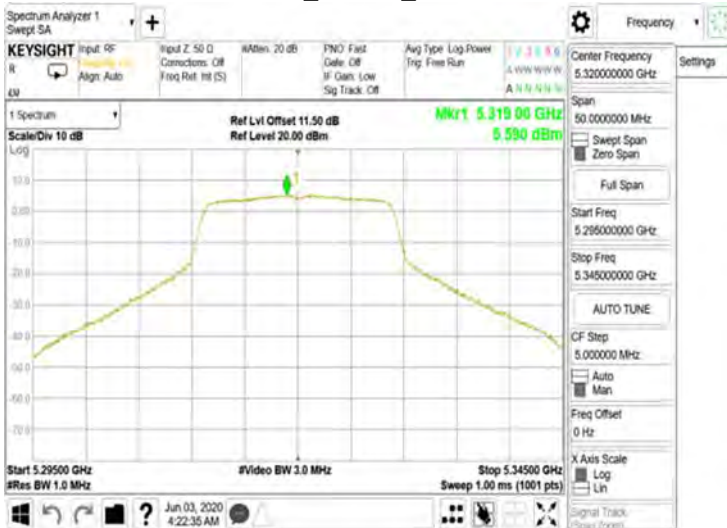
802.11n_20MHz_5300MHz



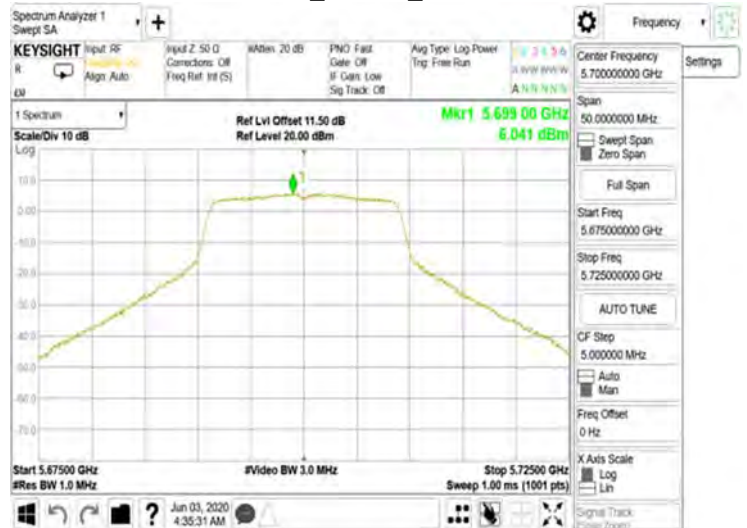
802.11n_20MHz_5580MHz



802.11n_20MHz_5320MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5500MHz



802.11n_20MHz_5720MHz (UNII 2C)



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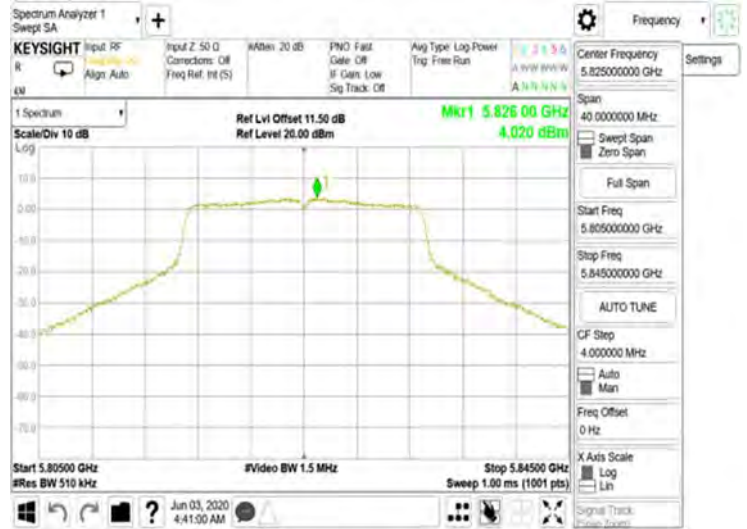
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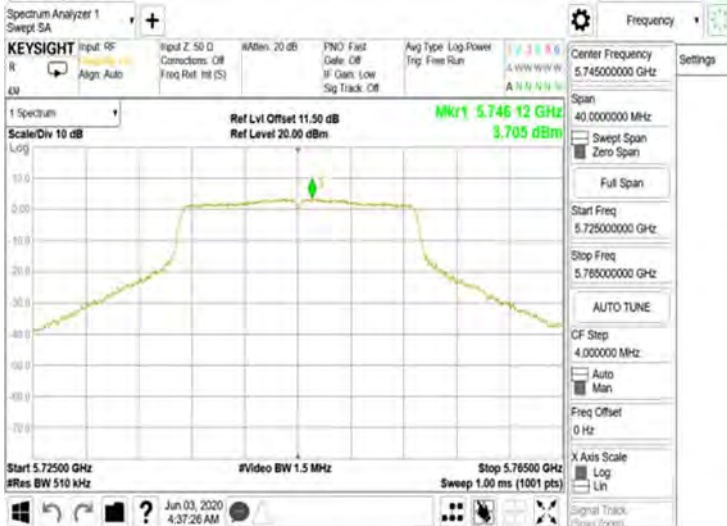
802.11n_20MHz_5720MHz (UNII 3)



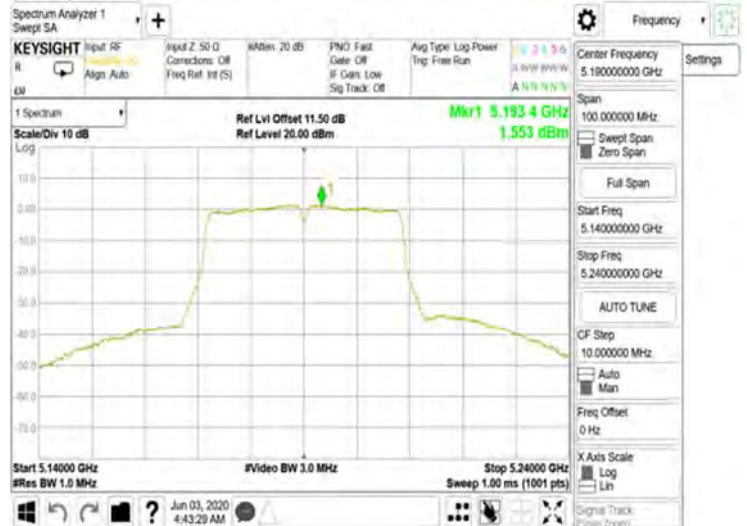
802.11n_20MHz_5825MHz



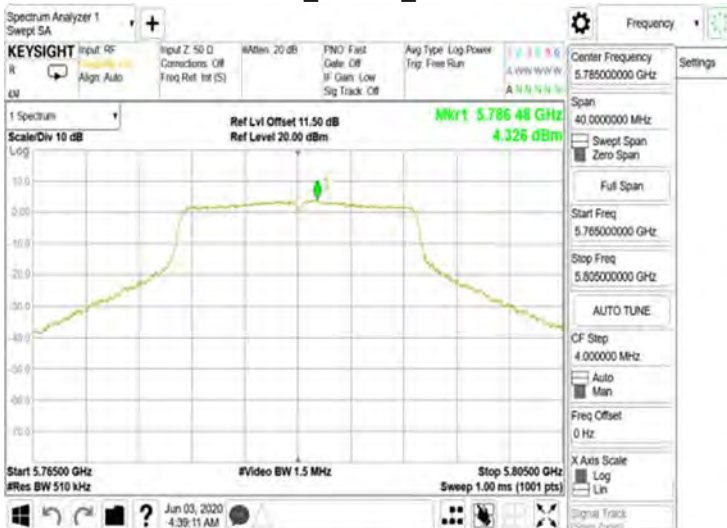
802.11n_20MHz_5745MHz



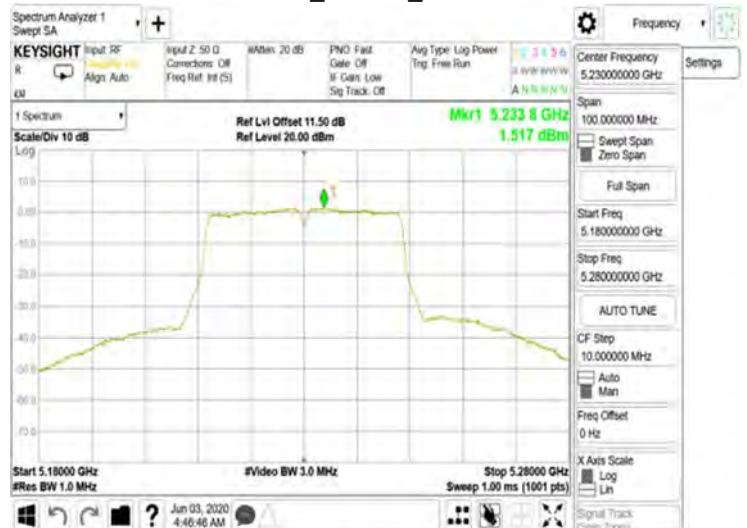
802.11n_40MHz_5190MHz



802.11n_20MHz_5785MHz



802.11n_40MHz_5230MHz

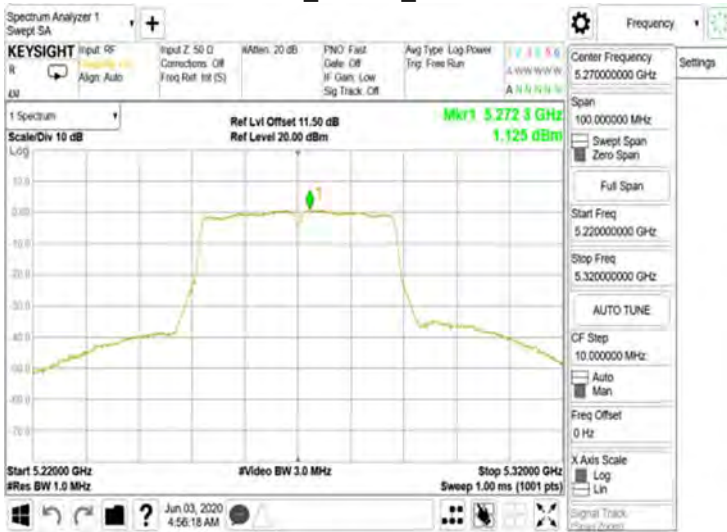


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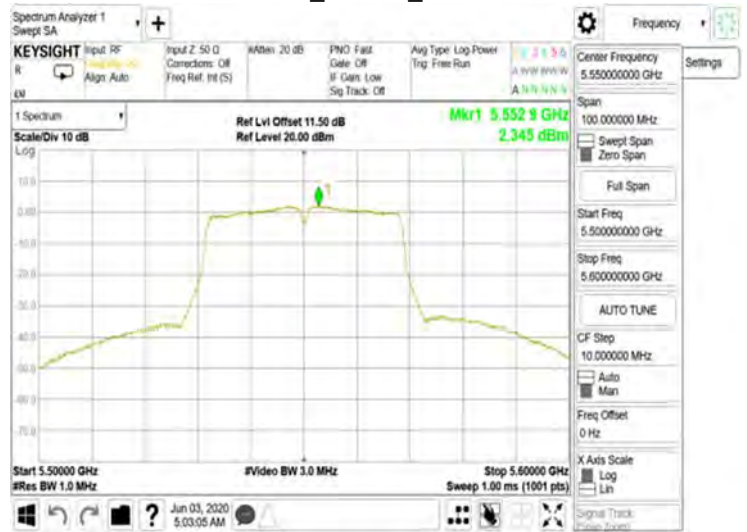
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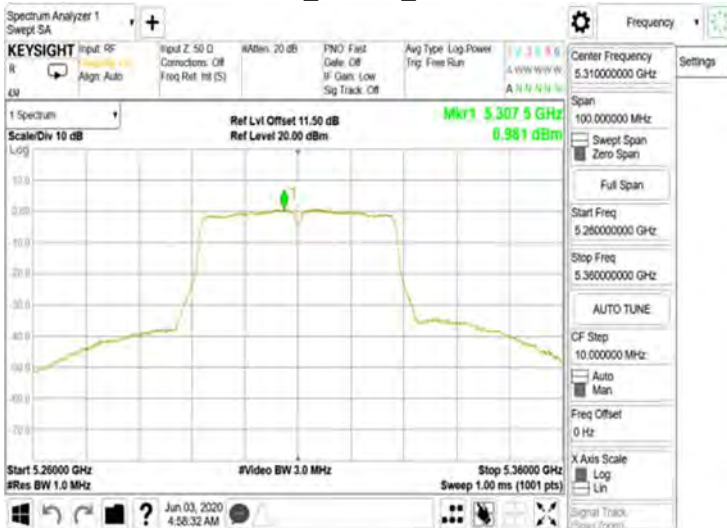
802.11n_40MHz_5270MHz



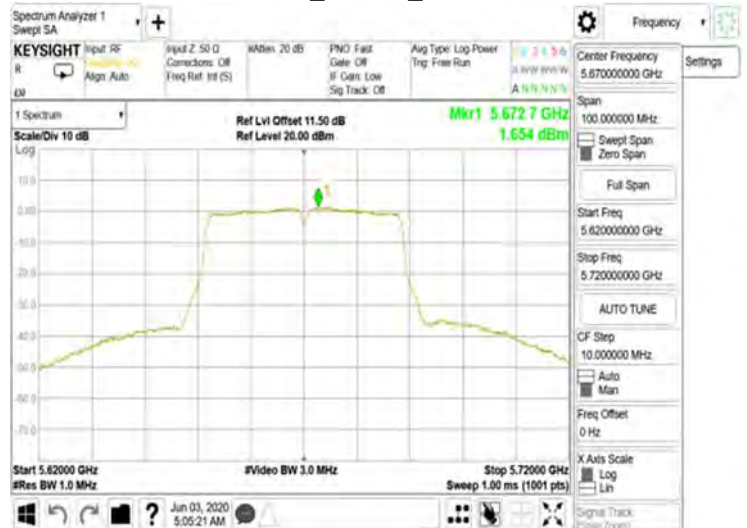
802.11n_40MHz_5550MHz



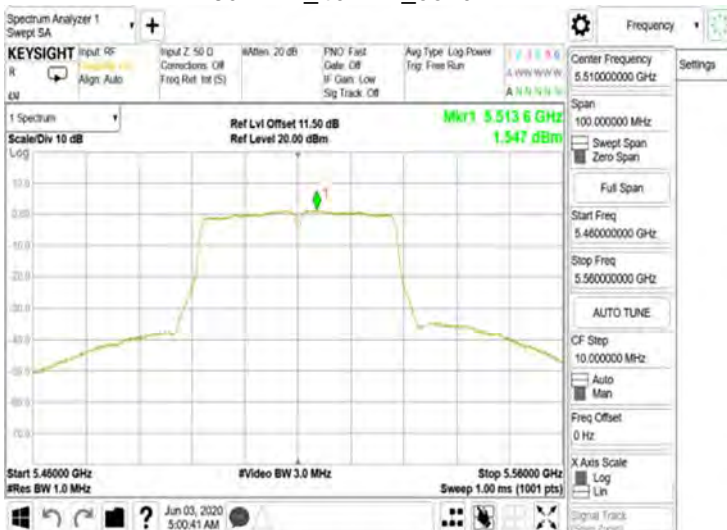
802.11n_40MHz_5310MHz



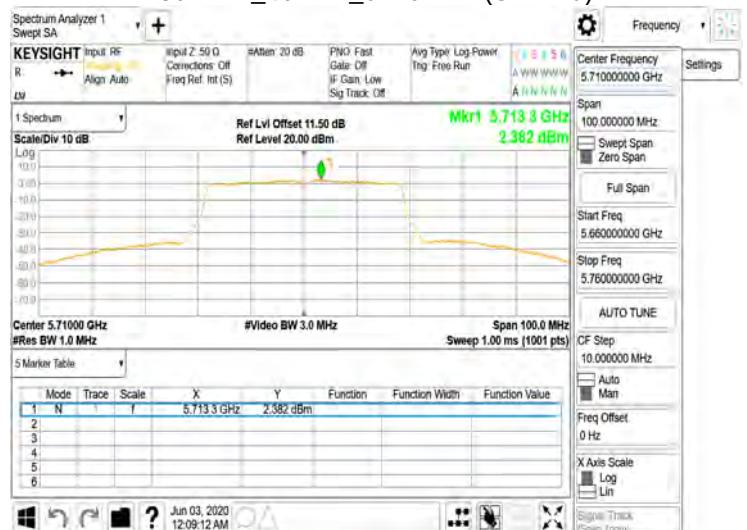
802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz (UNII 2C)

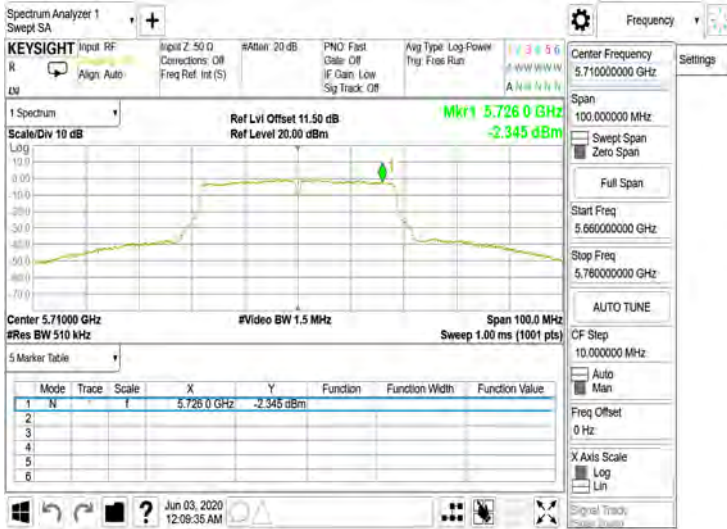


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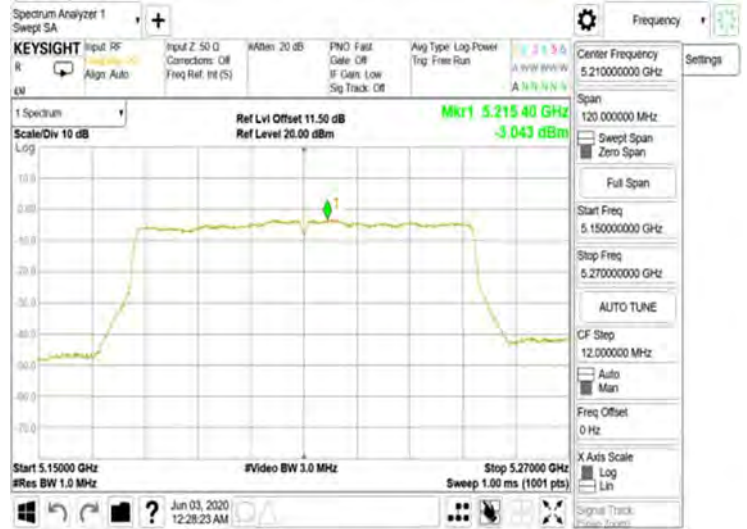
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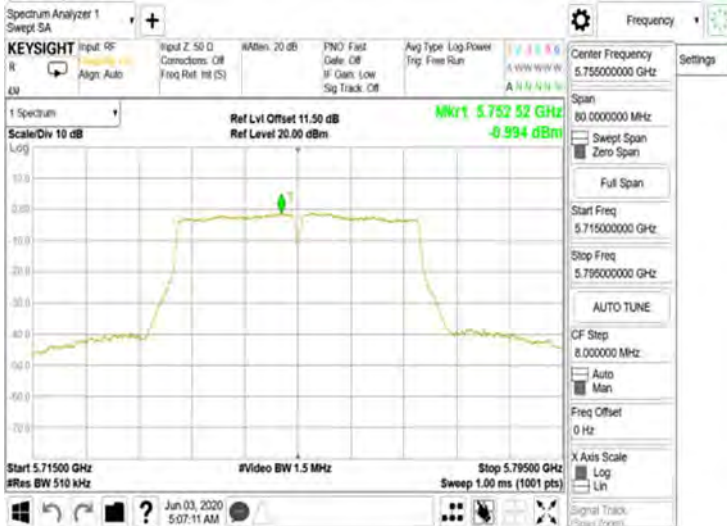
802.11n_40MHz_5710MHz (UNII 3)



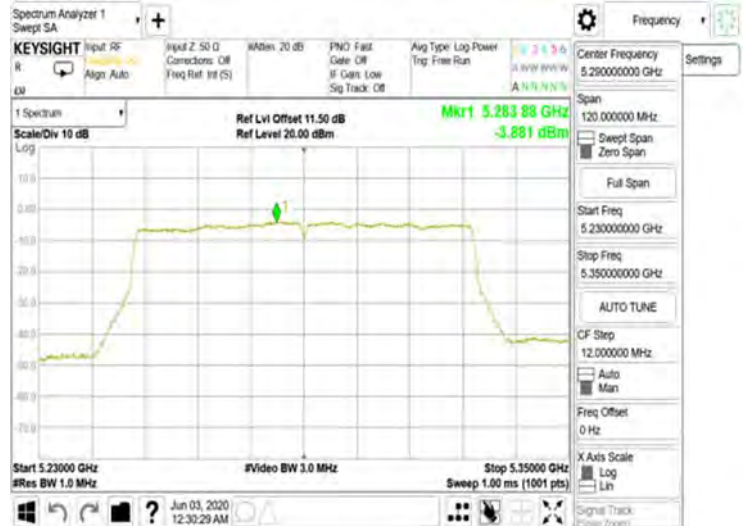
802.11ac_80MHz_5210MHz



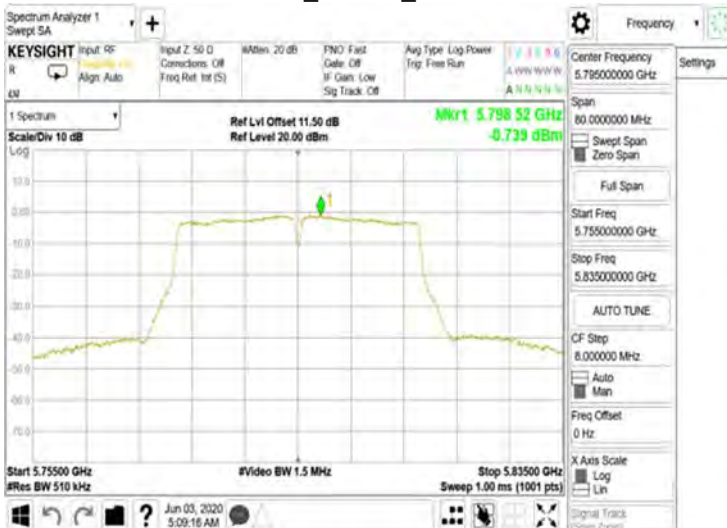
802.11n_40MHz_5755MHz



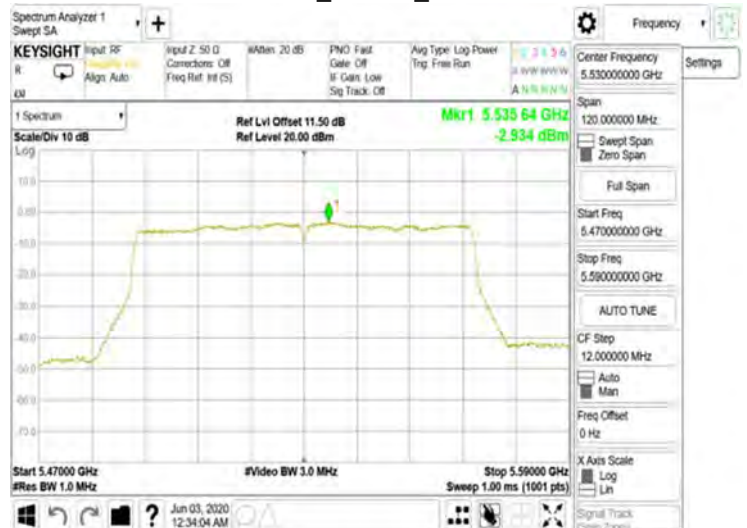
802.11ac_80MHz_5290MHz



802.11n_40MHz_5795MHz



802.11ac_80MHz_5530MHz

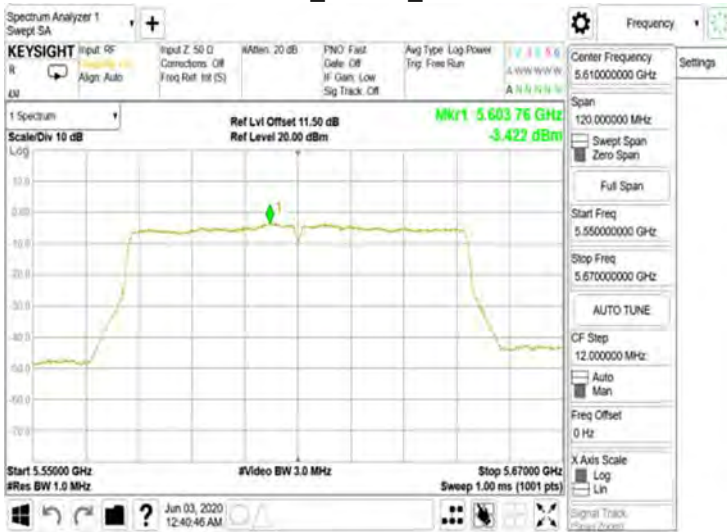


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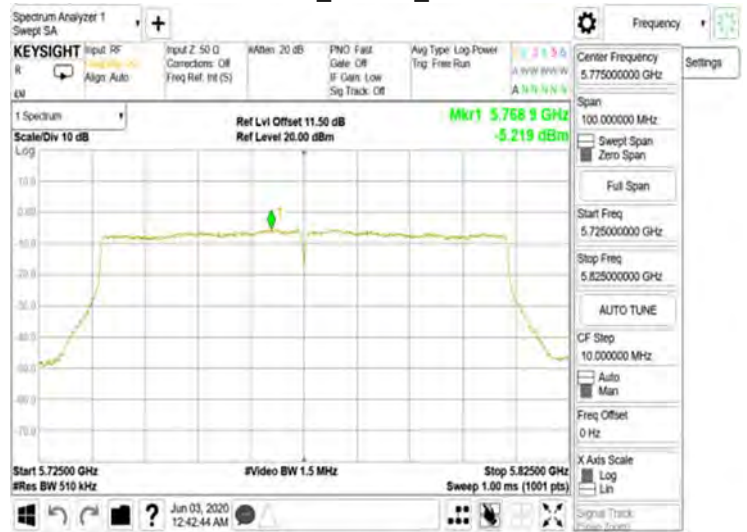
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802.11ac_80MHz_5610MHz



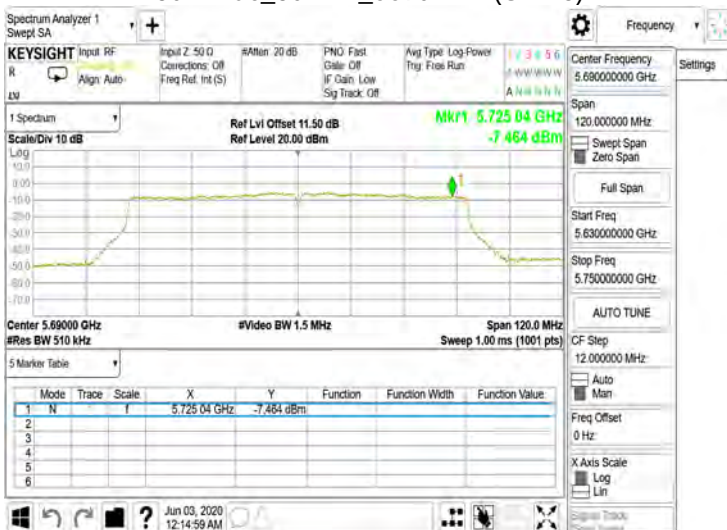
802.11ac_80MHz_5775MHz



802.11ac_80MHz_5690MHz (UNII 2C)



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	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/12/2019	06/11/2020
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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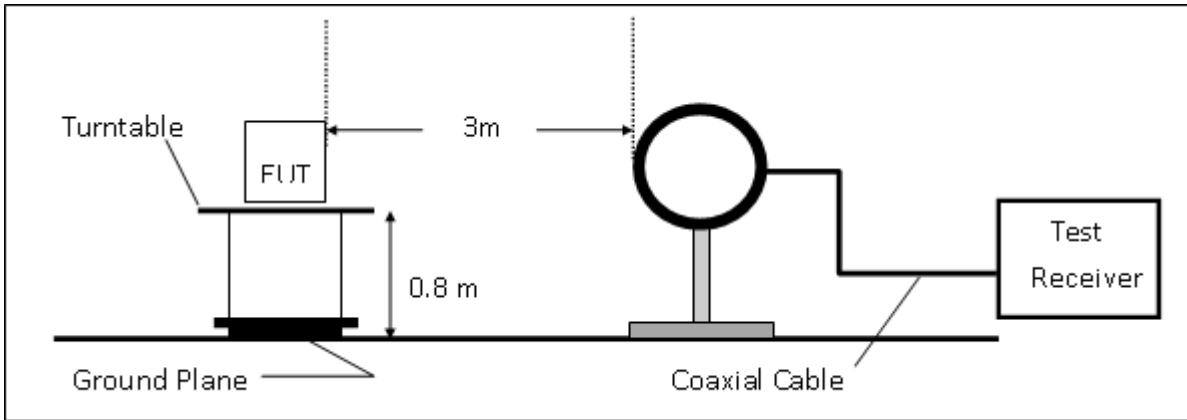
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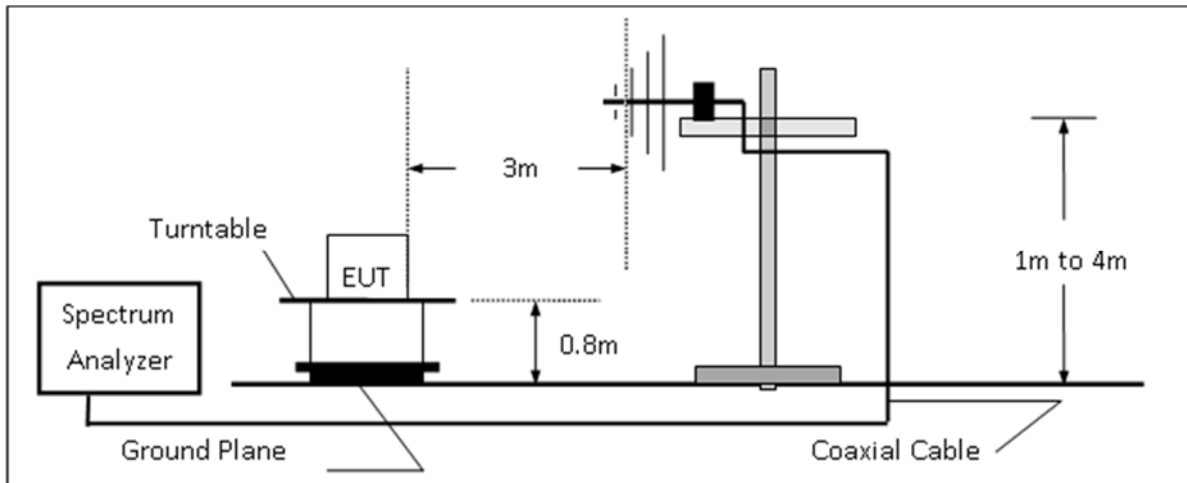
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11.3 Test SET-UP

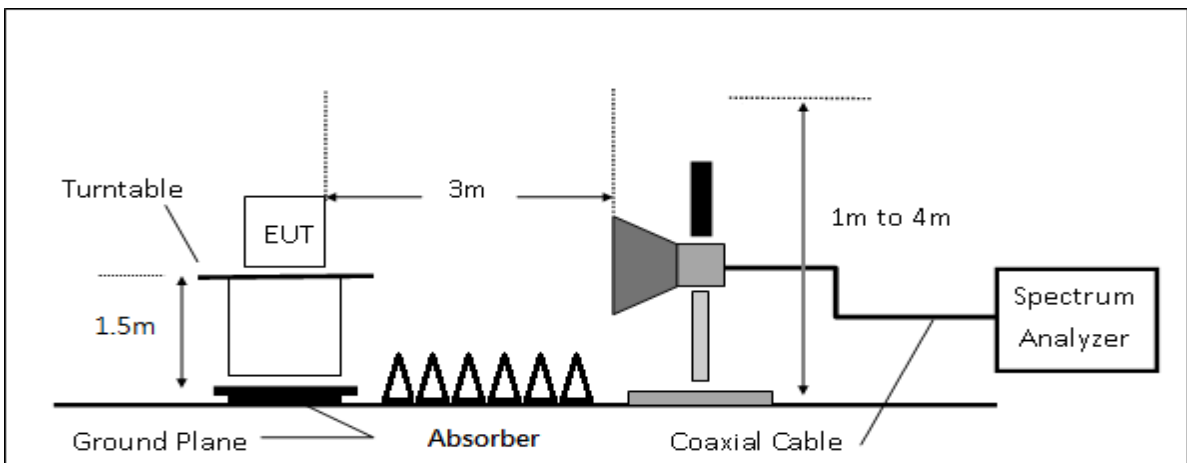
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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

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

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

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

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

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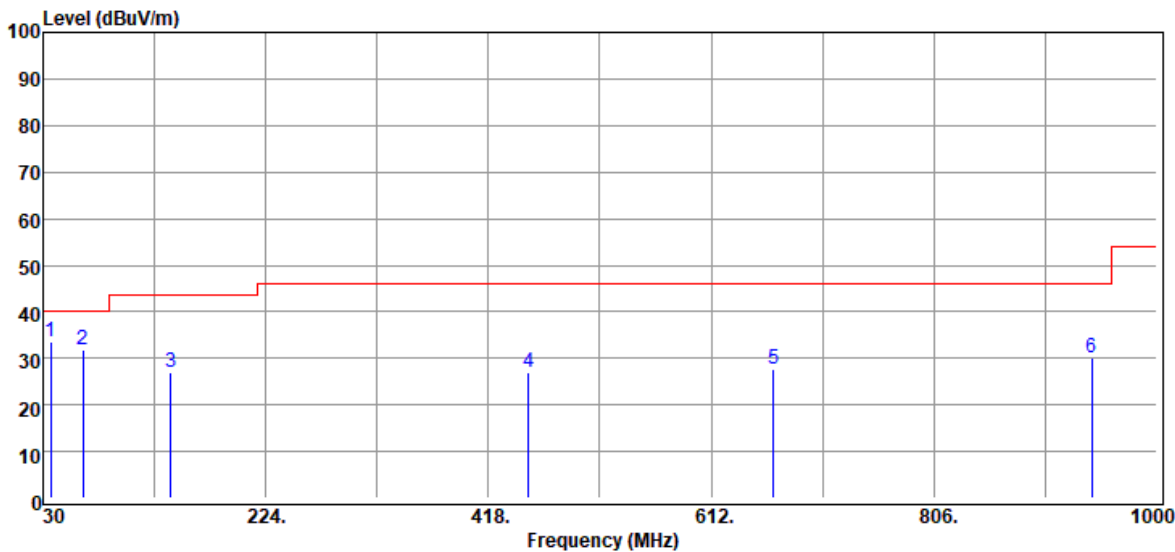
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:E2/2020/50041	Test Date	:2020-06-03
Operation Mode	:802.11a / Band 1	Temp./Humi.	:22.1/72
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH MID	Engineer	:Kailin
EUT Pol	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/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

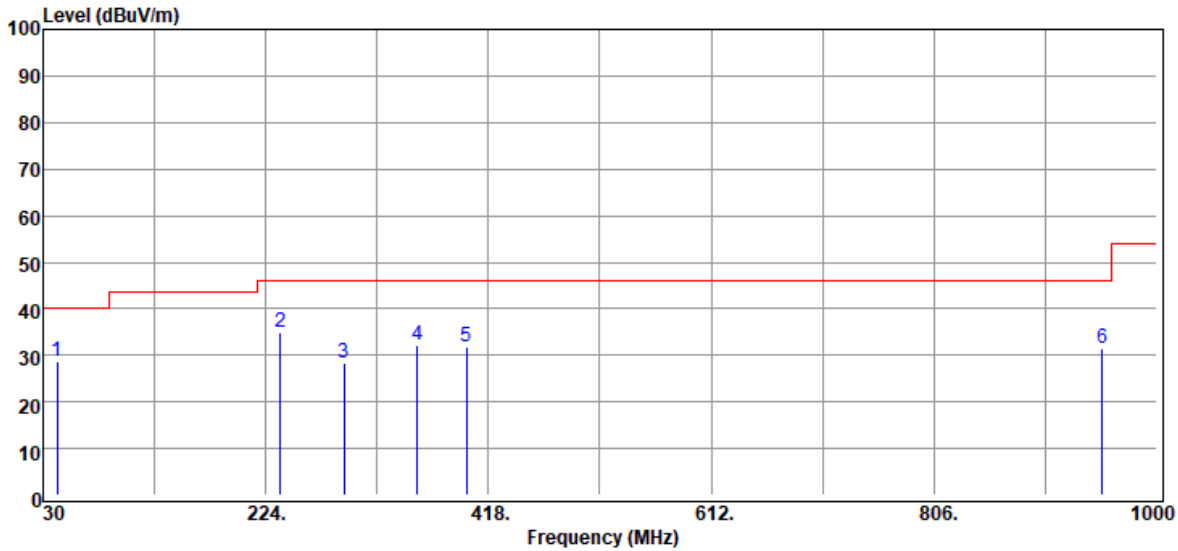
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

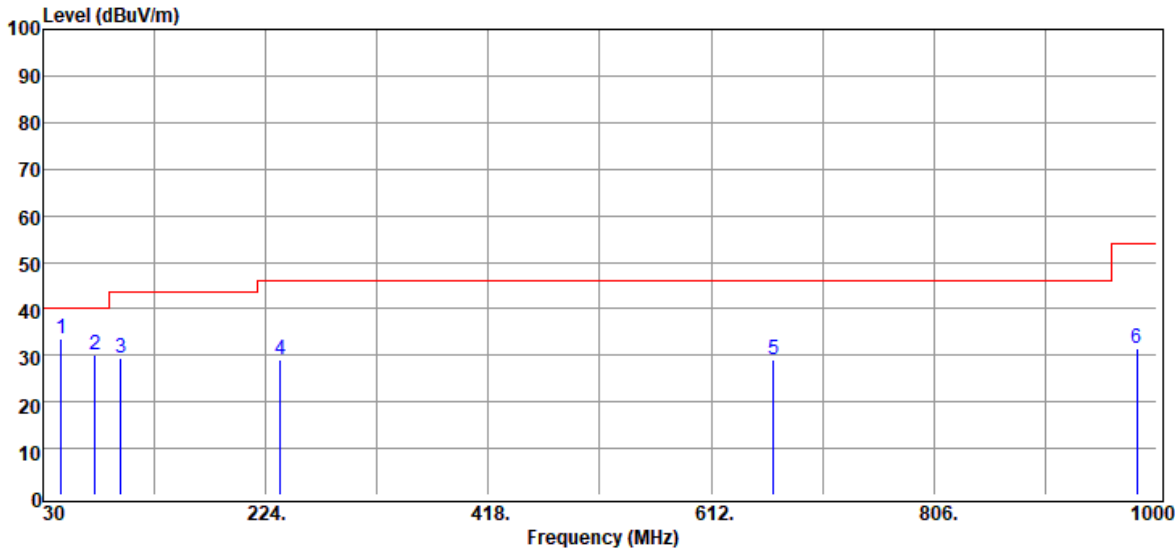
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

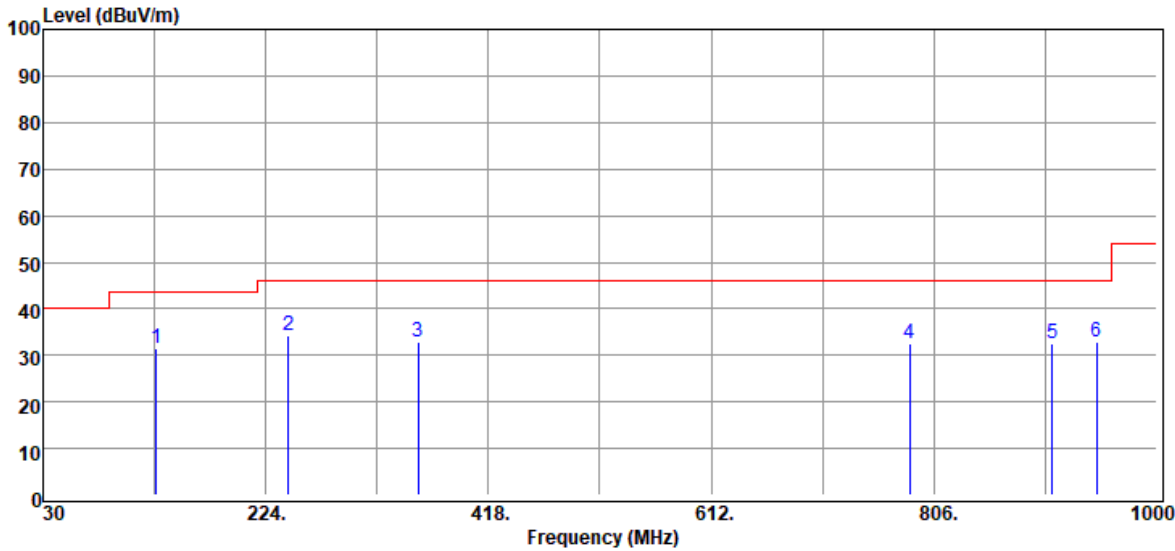
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

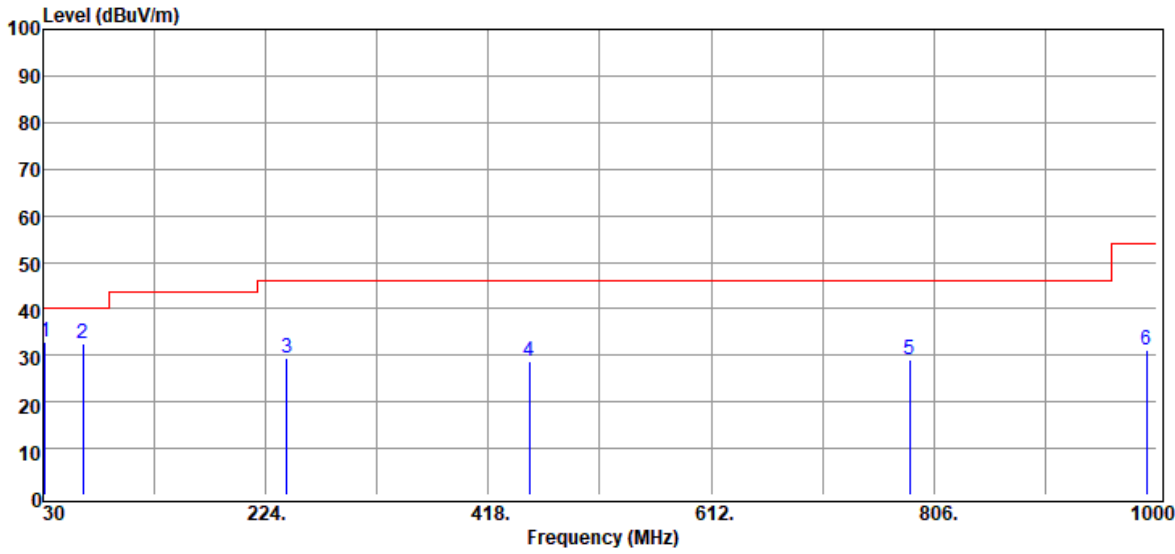
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

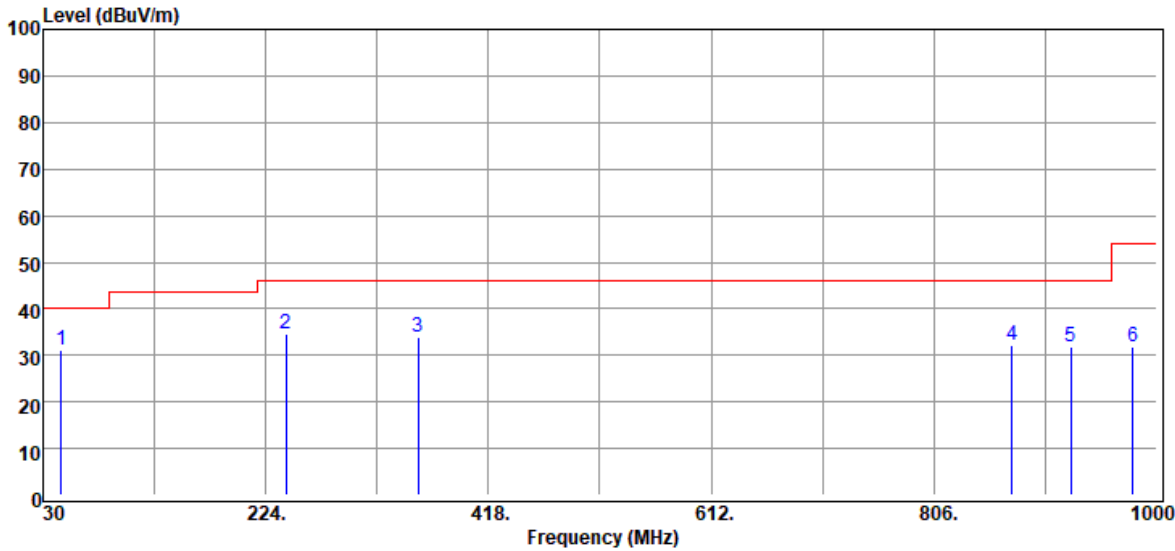
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Operation Mode :802.11a / Band 1
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

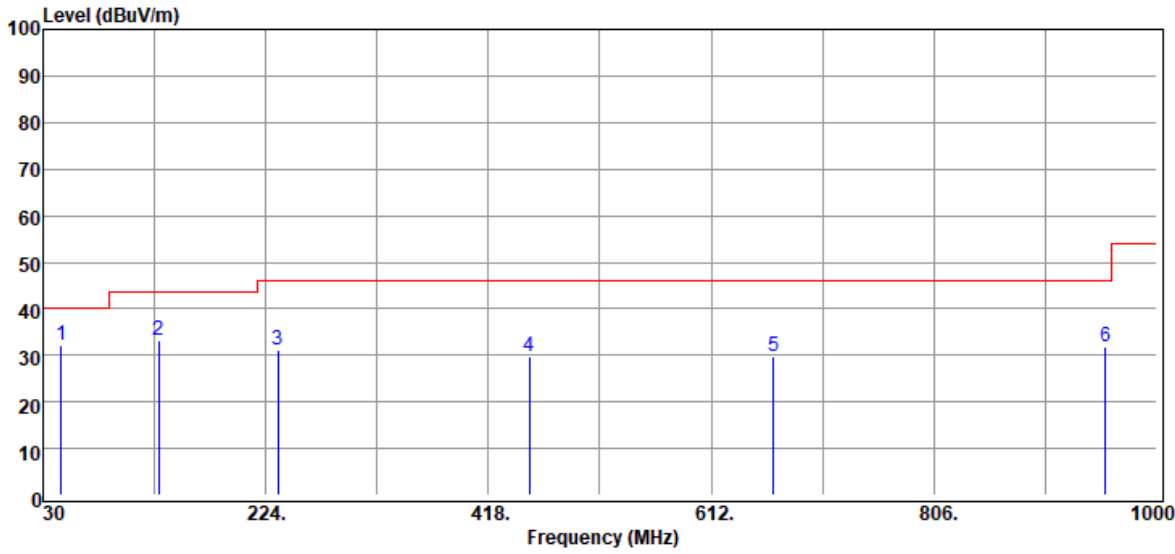
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

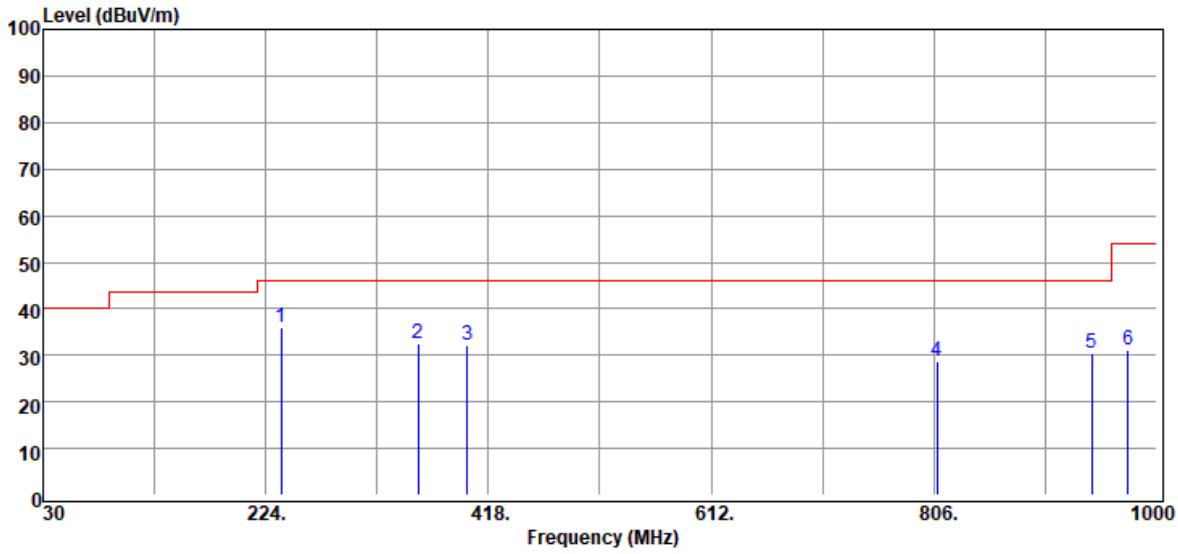
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
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

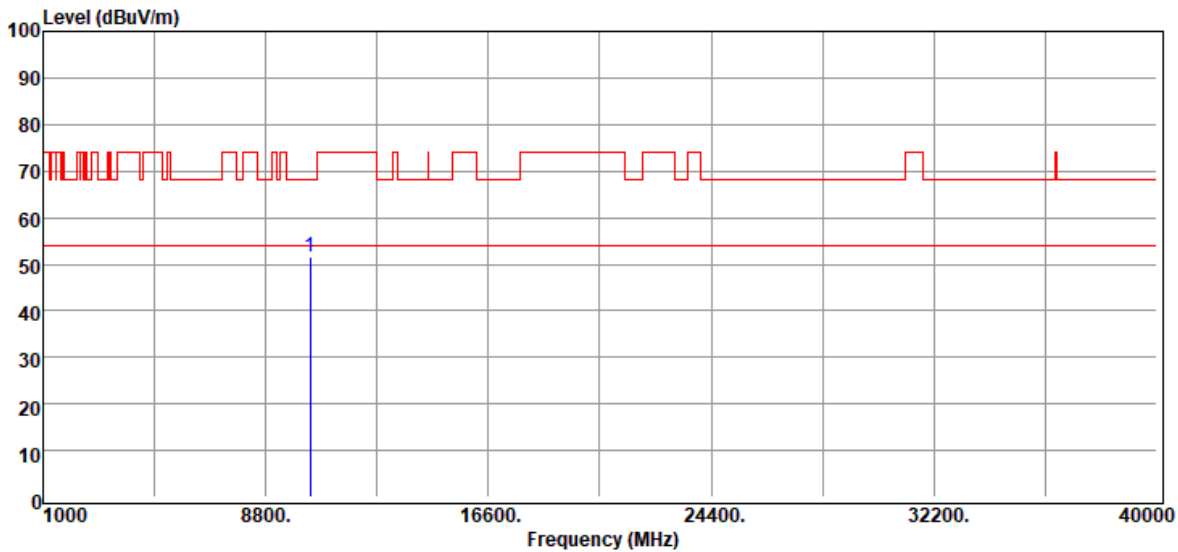
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11.7.2 Above 1GHz Worst-Case Data:

Report Number	:E2/2020/50041	Test Date	:2020-06-04
Operation Mode	:802.11a / Band 1	Temp./Humi.	:21.7/69
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH LOW	Engineer	:Kailin
EUT Pol	:H Plan		



Freq. MHz	Detector Mode PK/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	41.42	10.28	51.70	68.20	-16.50

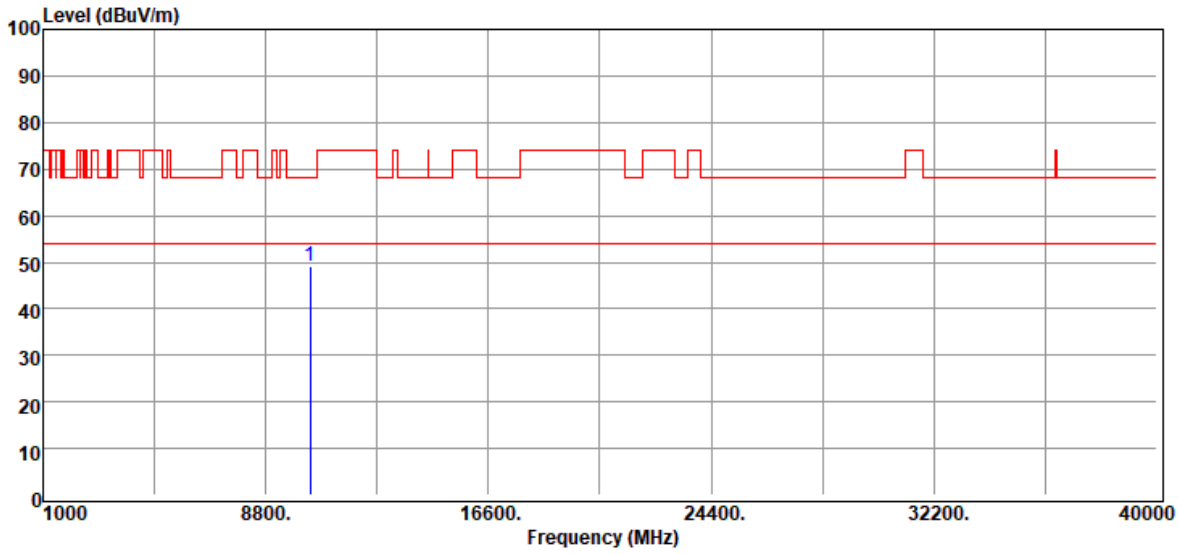
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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
10360.00	Peak	38.96	10.28	49.24	68.20	-18.96

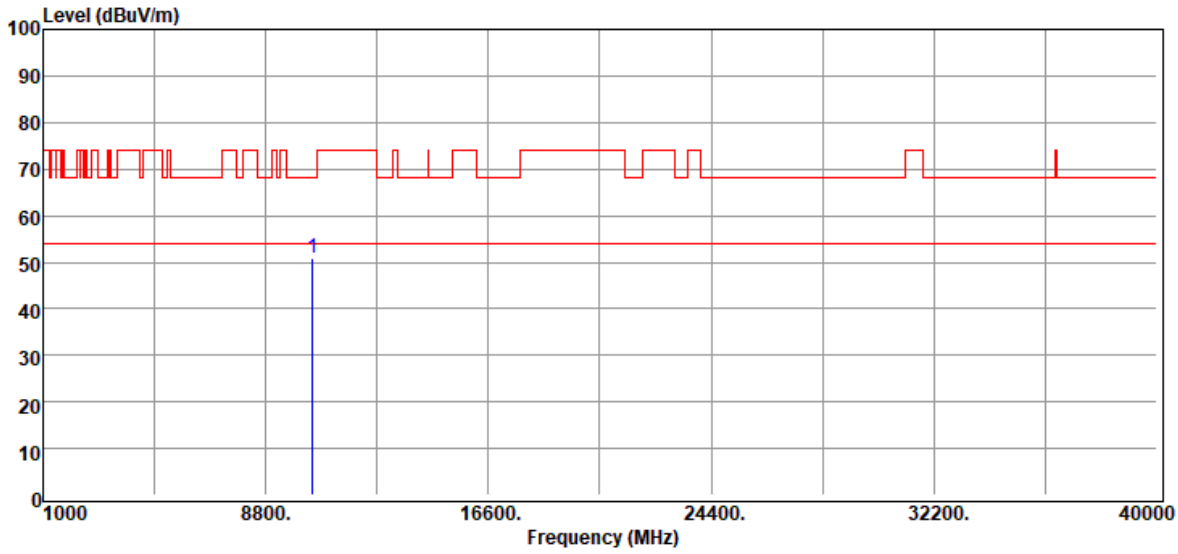
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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	39.90	11.00	50.90	68.20	-17.30

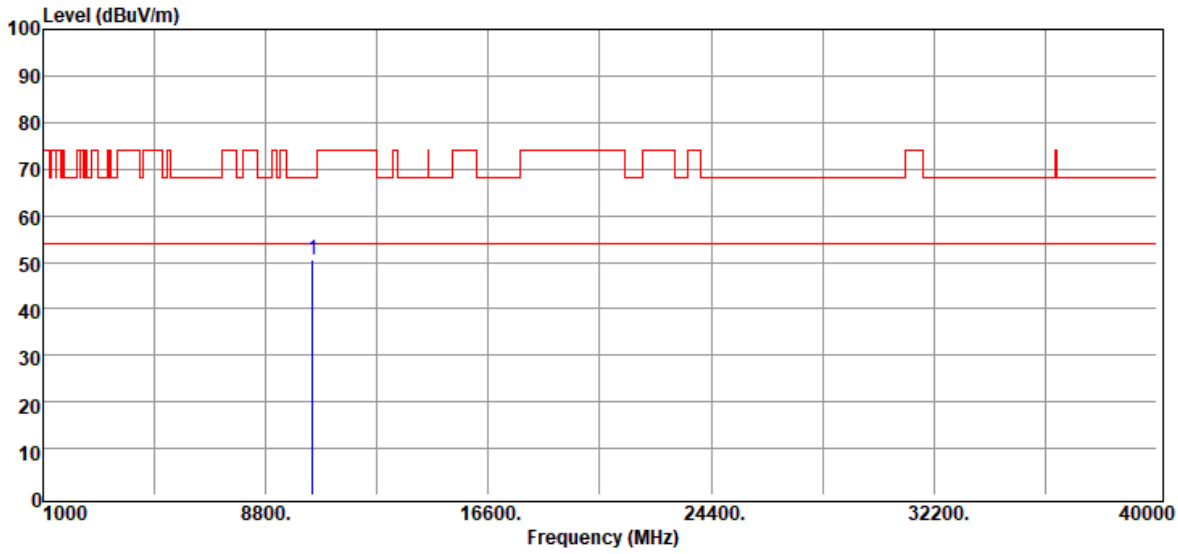
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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
10440.00	Peak	39.42	11.00	50.42	68.20	-17.78

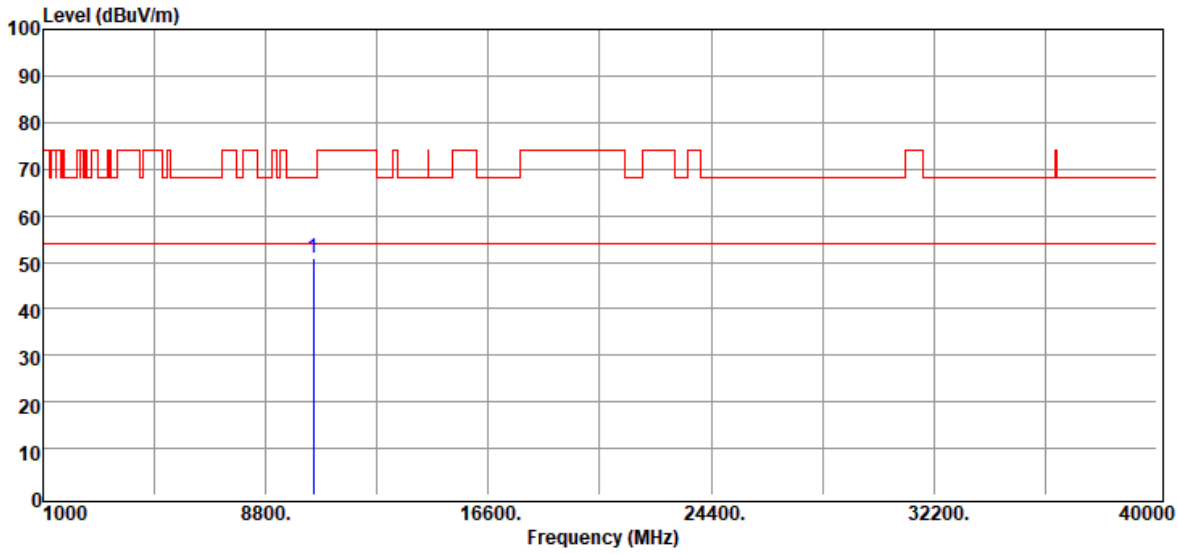
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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	39.65	11.18	50.83	68.20	-17.37

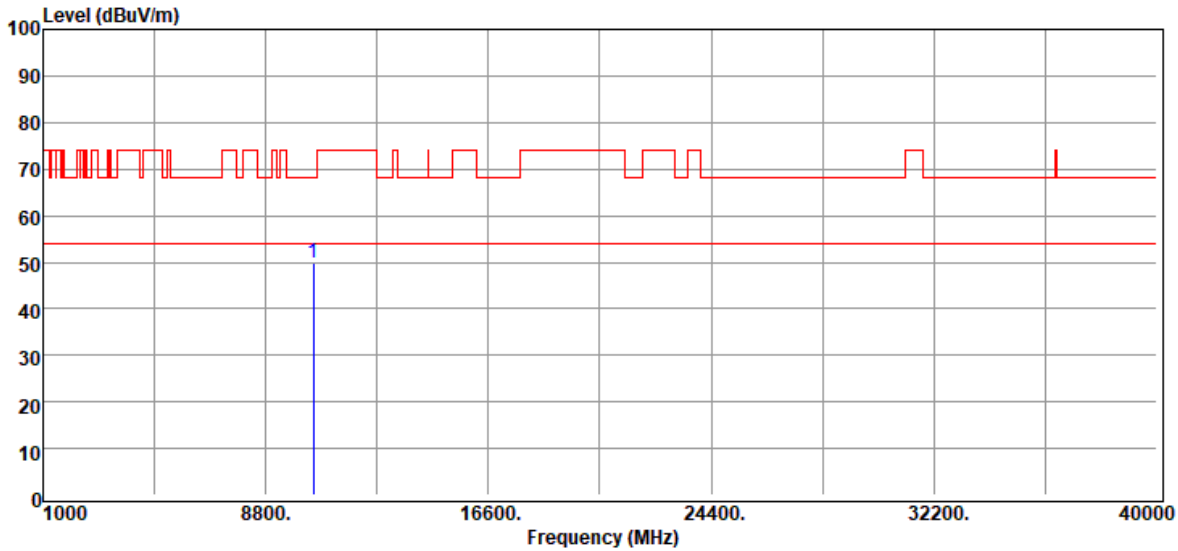
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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
10480.00	Peak	38.79	11.18	49.97	68.20	-18.23

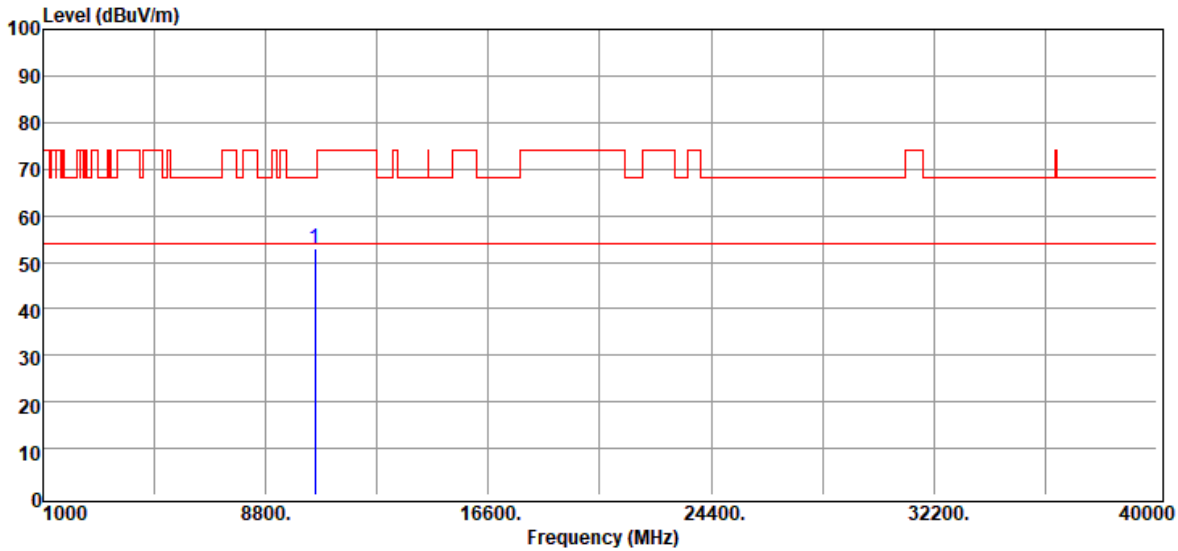
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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	41.72	11.22	52.94	68.20	-15.26

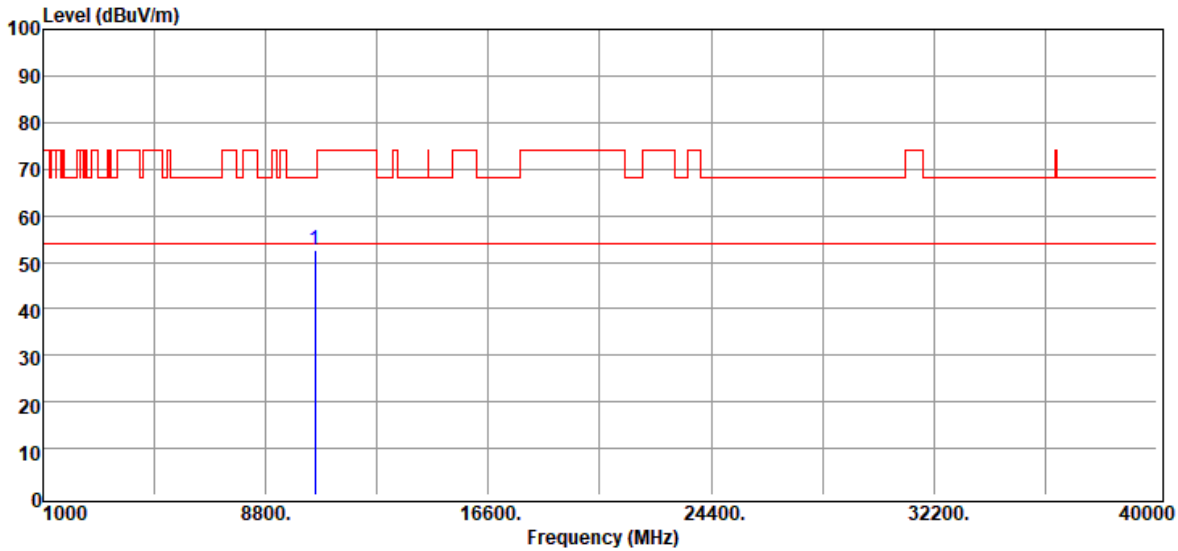
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/69
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
10520.00	Peak	41.27	11.22	52.49	68.20	-15.71

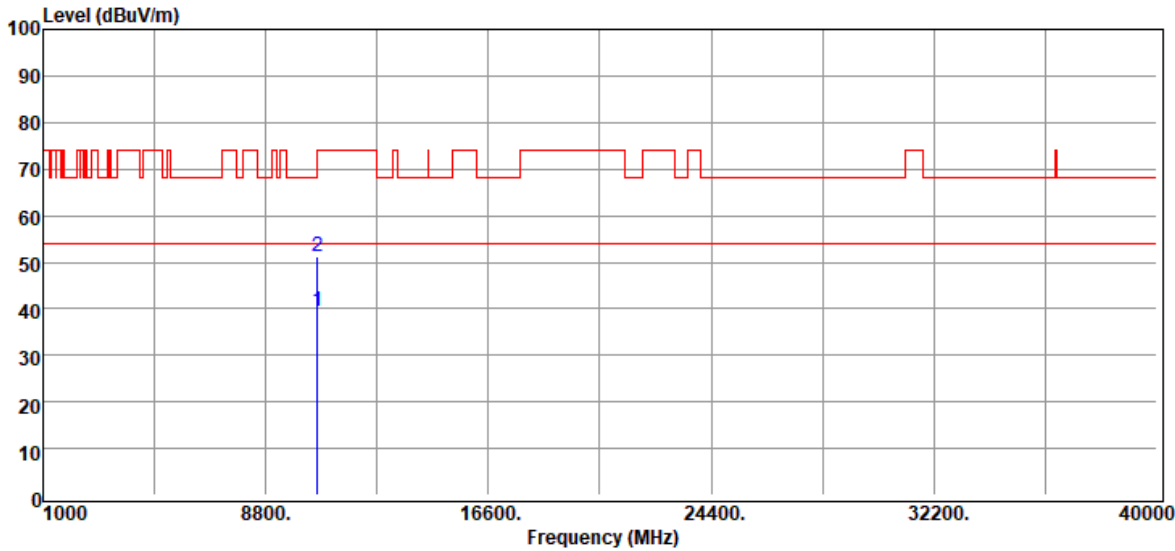
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/68
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	28.45	11.10	39.55	54.00	-14.45
10600.00	Peak	40.22	11.10	51.32	74.00	-22.68

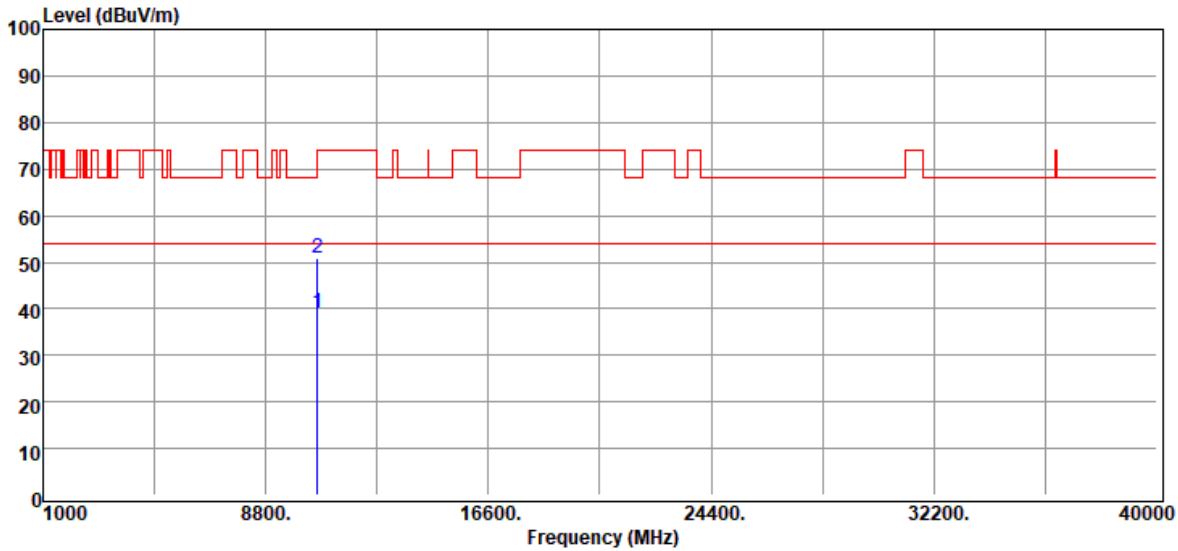
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/68
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
10600.00	Average	27.94	11.10	39.04	54.00	-14.96
10600.00	Peak	39.89	11.10	50.99	74.00	-23.01

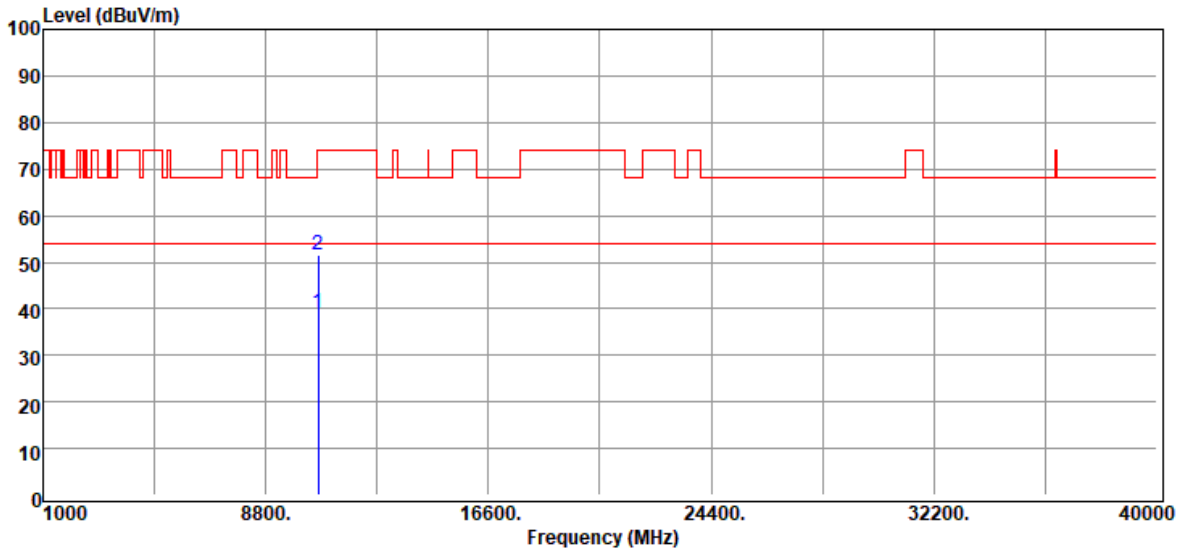
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Report Number :E2/2020/50041
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.6/68
 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	27.84	11.12	38.96	54.00	-15.04
10640.00	Peak	40.33	11.12	51.45	74.00	-22.55

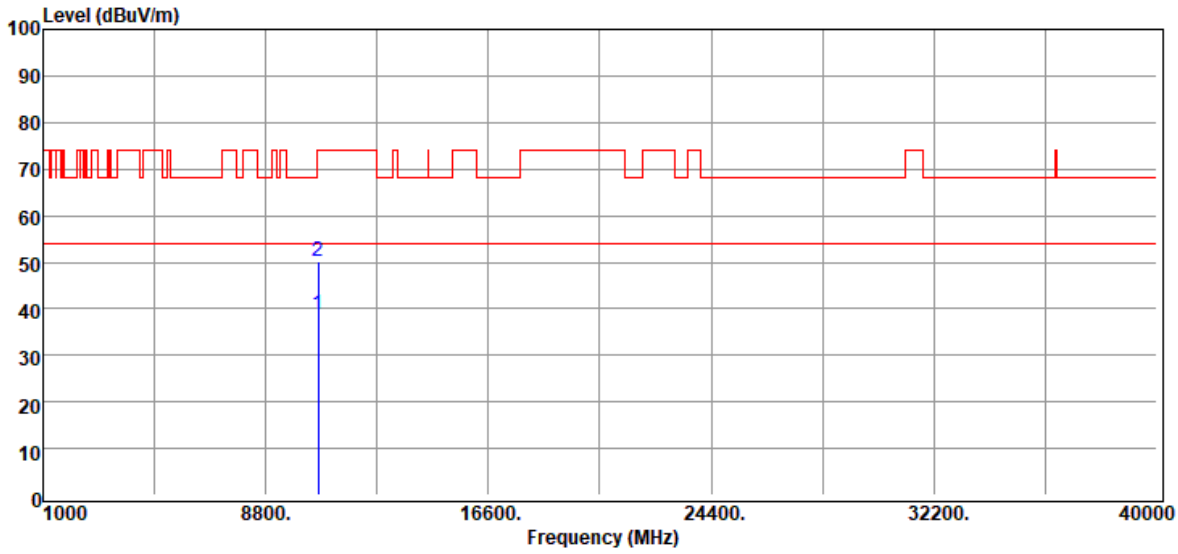
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/68
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
10640.00	Average	27.77	11.12	38.89	54.00	-15.11
10640.00	Peak	39.01	11.12	50.13	74.00	-23.87

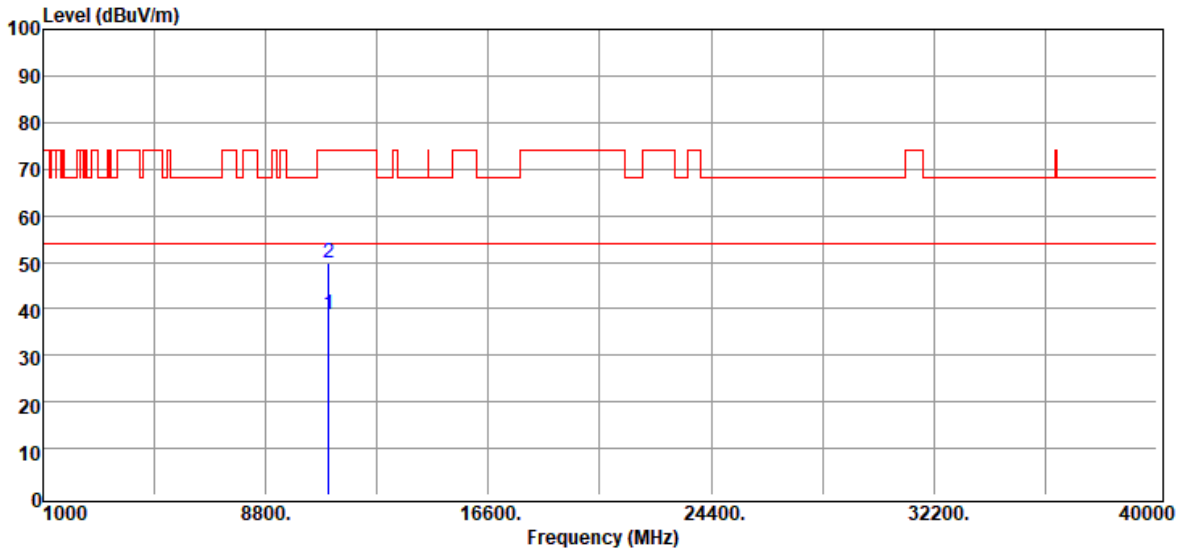
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/69
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
11000.00	Average	28.71	9.88	38.59	54.00	-15.41
11000.00	Peak	40.11	9.88	49.99	74.00	-24.01

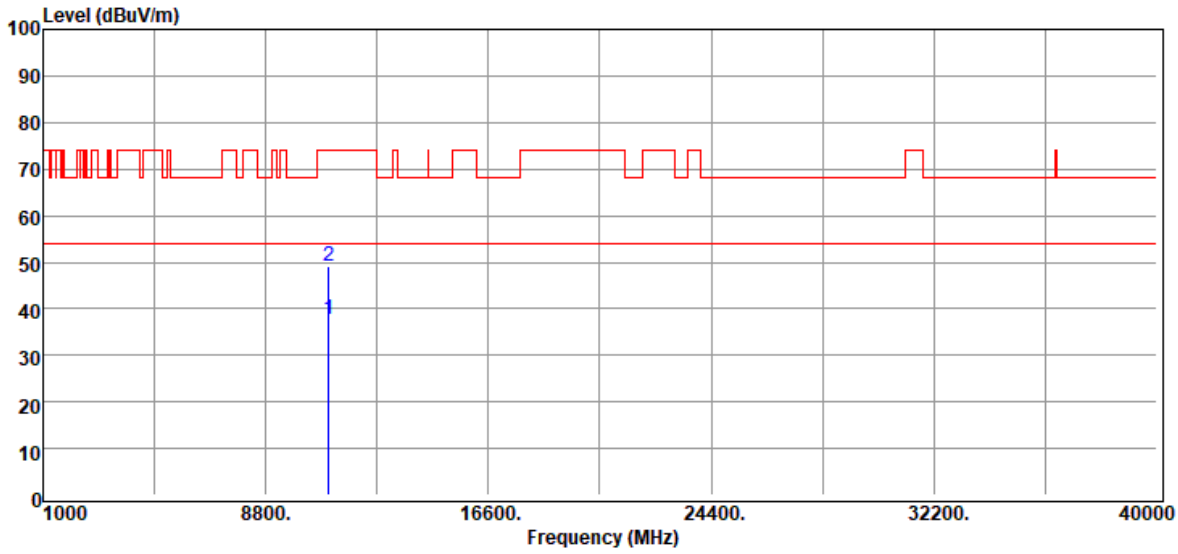
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/69
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
11000.00	Average	27.89	9.88	37.77	54.00	-16.23
11000.00	Peak	39.12	9.88	49.00	74.00	-25.00

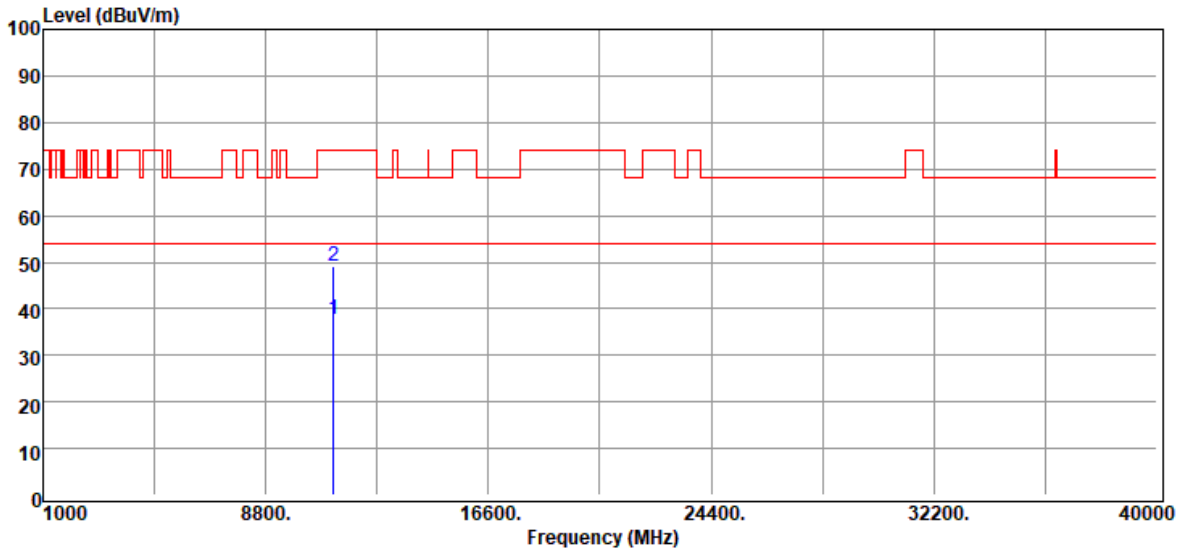
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/69
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
11160.00	Average	27.48	10.39	37.87	54.00	-16.13
11160.00	Peak	38.67	10.39	49.06	74.00	-24.94

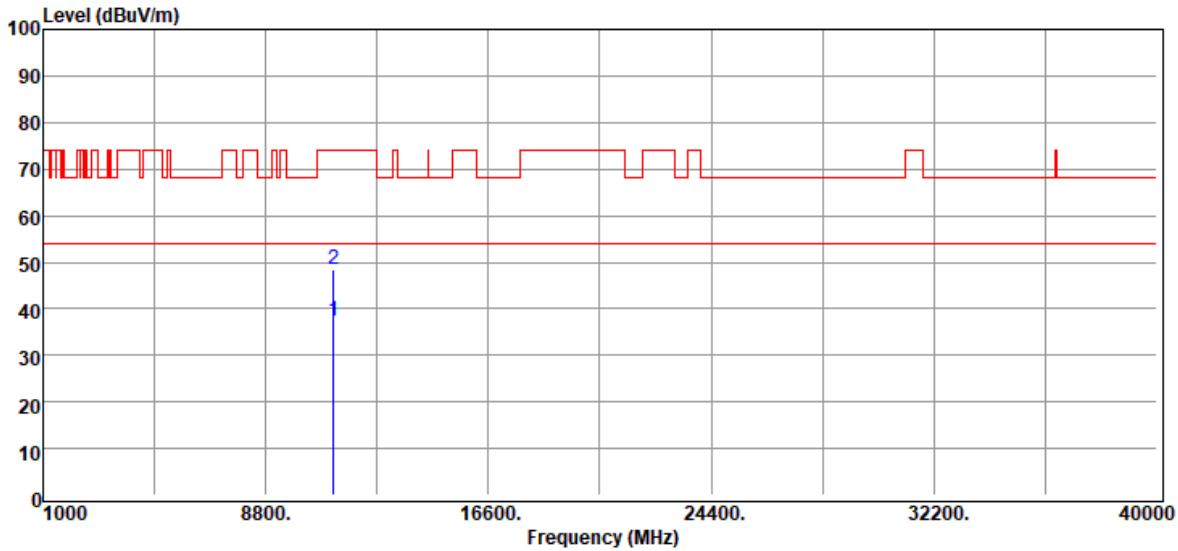
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/69
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
11160.00	Average	26.97	10.39	37.36	54.00	-16.64
11160.00	Peak	38.01	10.39	48.40	74.00	-25.60

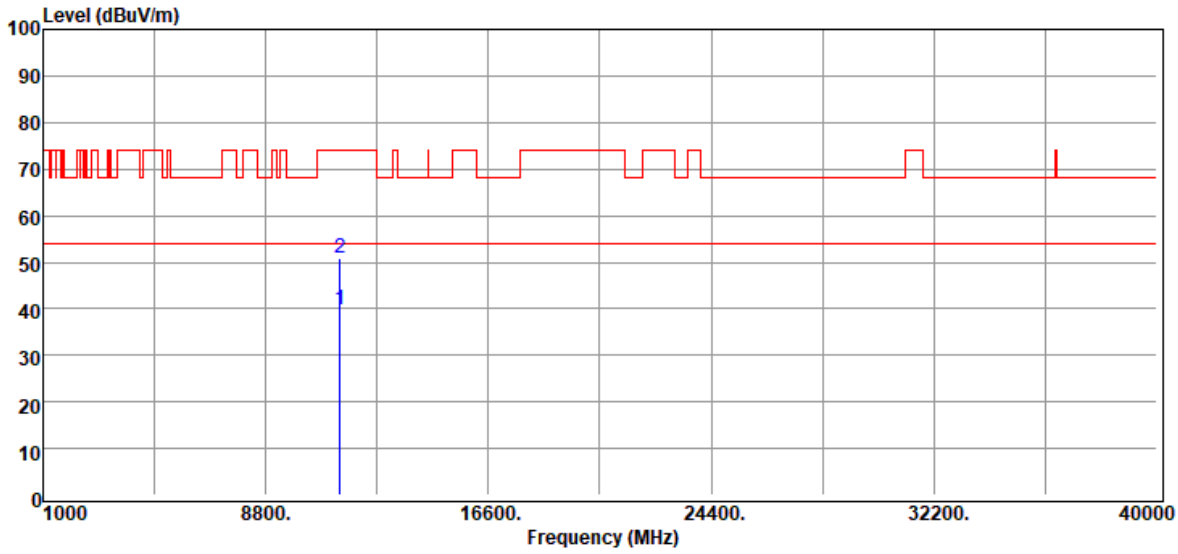
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/69
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	28.74	11.09	39.83	54.00	-14.17
11400.00	Peak	39.70	11.09	50.79	74.00	-23.21

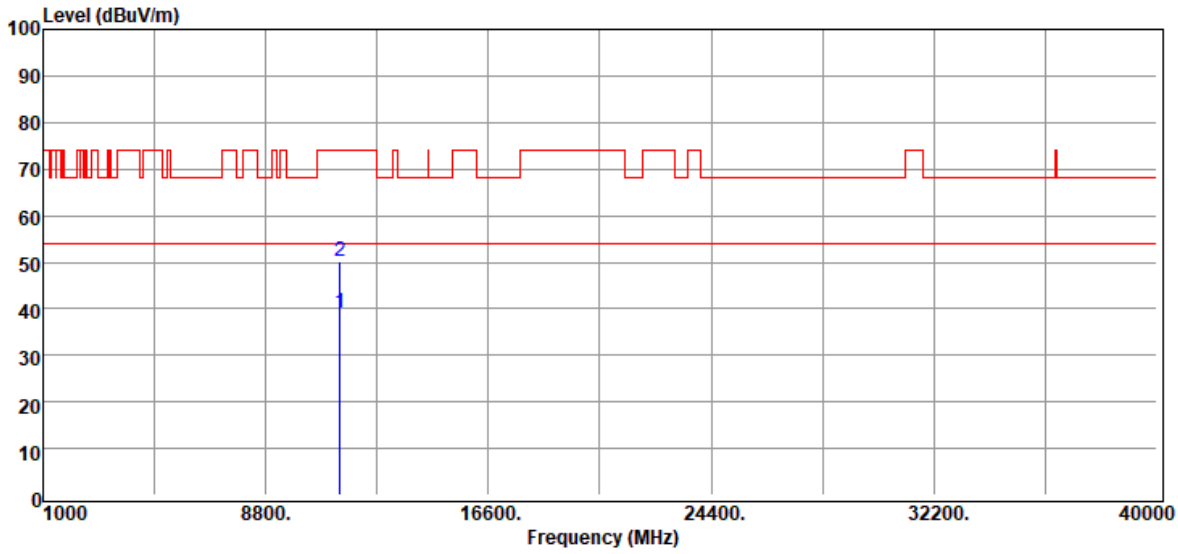
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/69
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
11400.00	Average	27.95	11.09	39.04	54.00	-14.96
11400.00	Peak	39.07	11.09	50.16	74.00	-23.84

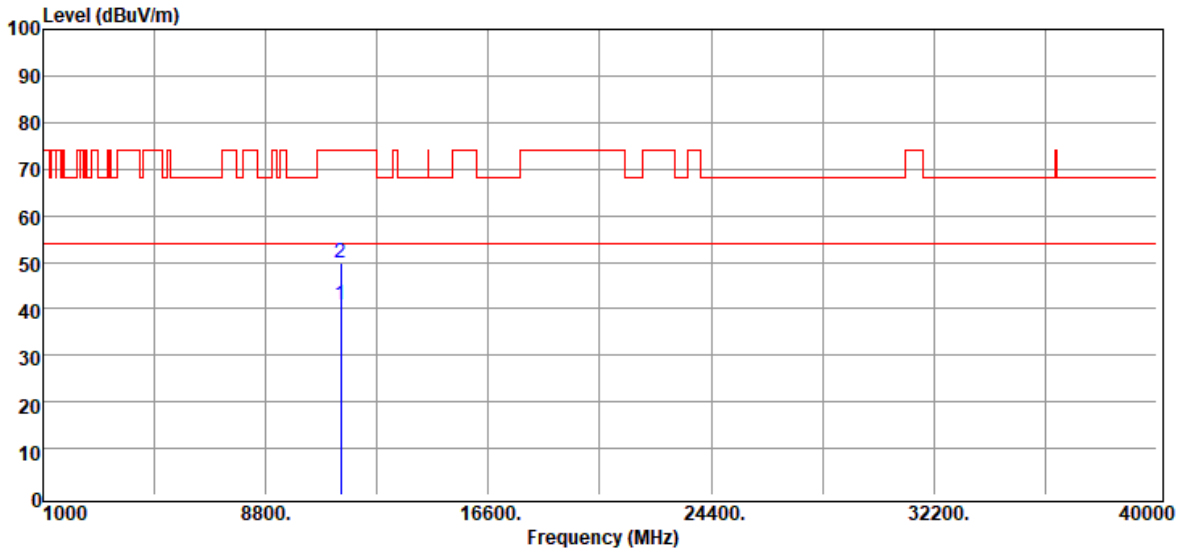
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/68
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	28.94	11.81	40.75	54.00	-13.25
11440.00	Peak	38.10	11.81	49.91	74.00	-24.09

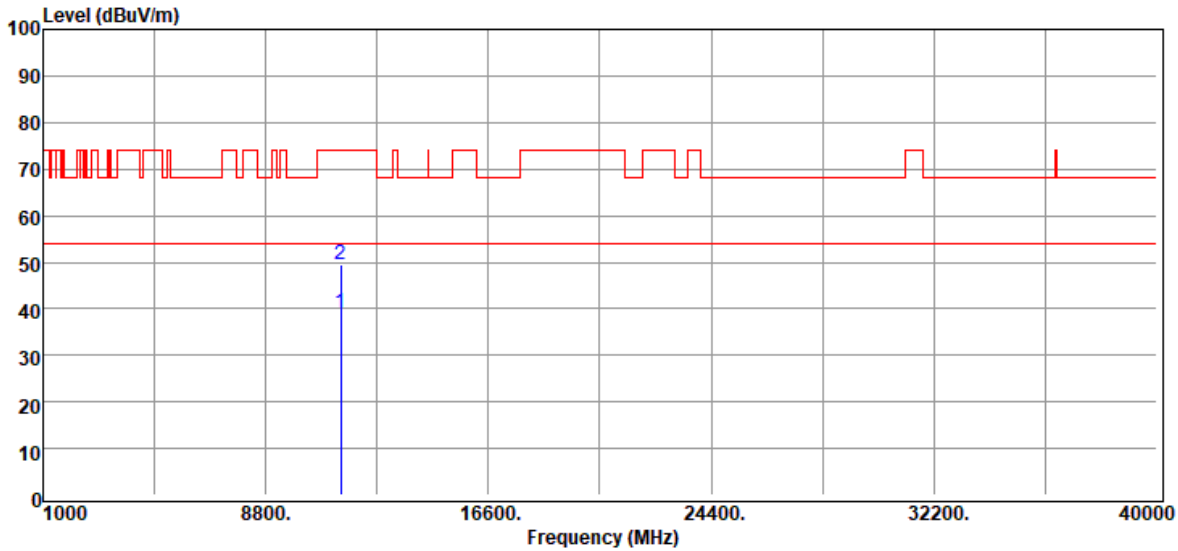
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Report Number :E2/2020/50041
 Operation Mode :802.11a / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.6/68
 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
11440.00	Average	27.37	11.81	39.18	54.00	-14.82
11440.00	Peak	37.58	11.81	49.39	74.00	-24.61

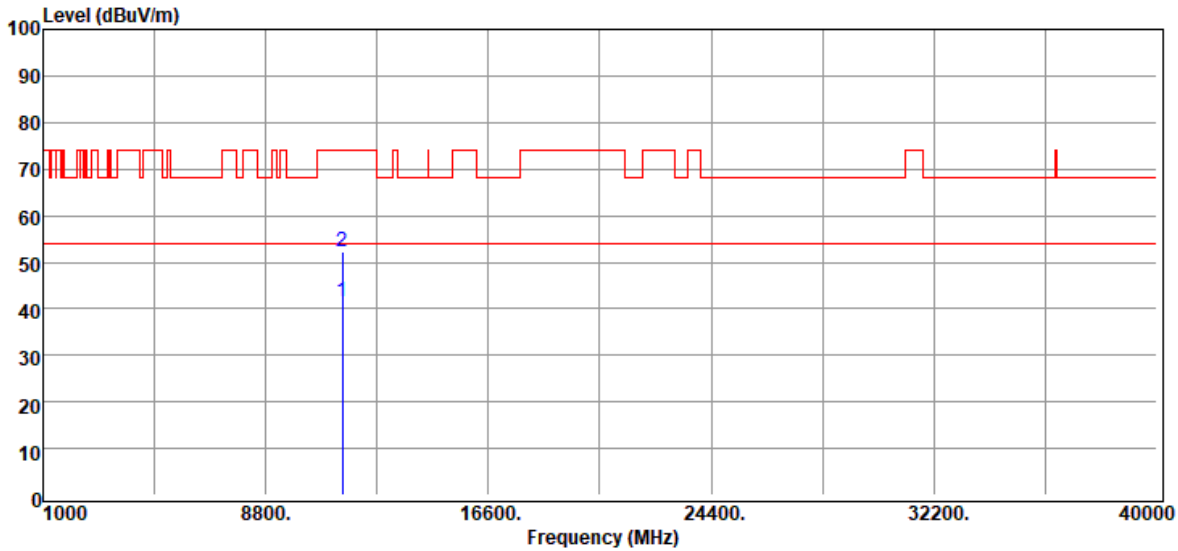
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/68
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	28.95	12.69	41.64	54.00	-12.36
11490.00	Peak	39.71	12.69	52.40	74.00	-21.60

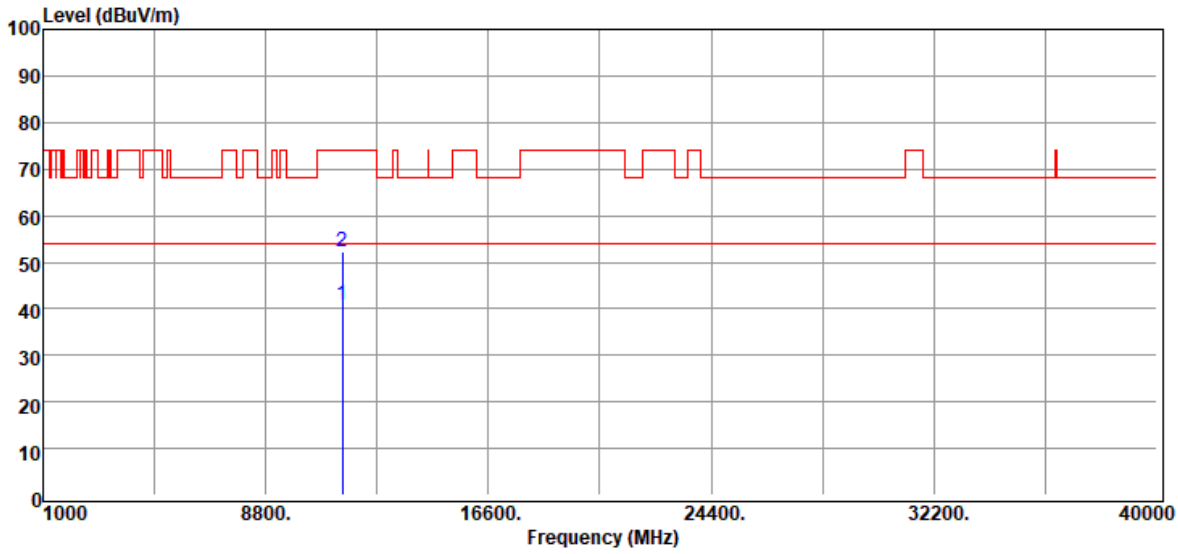
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/68
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
11490.00	Average	28.22	12.69	40.91	54.00	-13.09
11490.00	Peak	39.45	12.69	52.14	74.00	-21.86

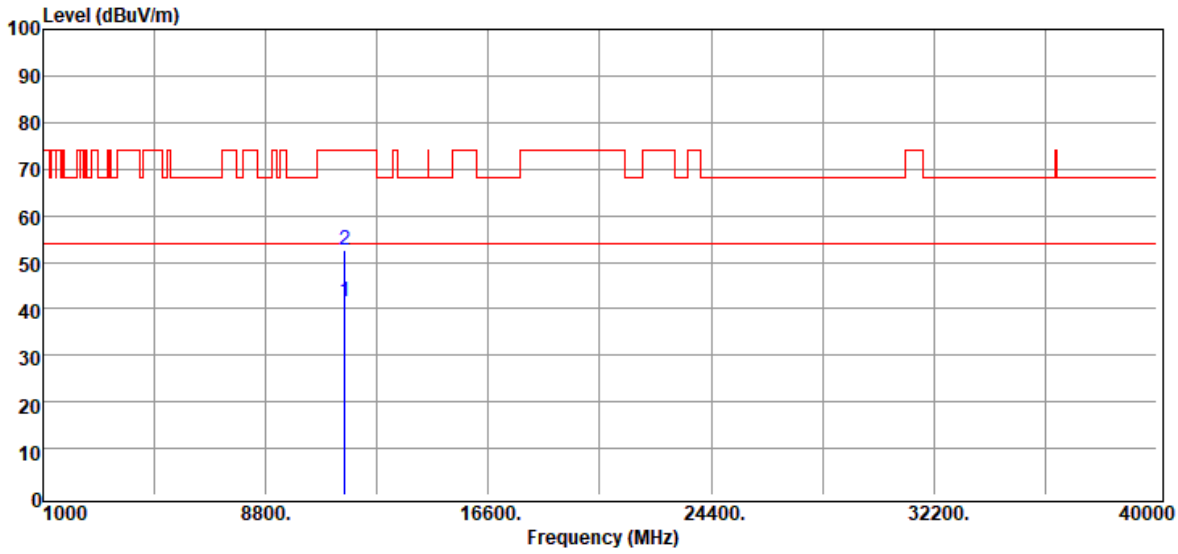
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/68
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	29.22	12.38	41.60	54.00	-12.40
11570.00	Peak	40.38	12.38	52.76	74.00	-21.24

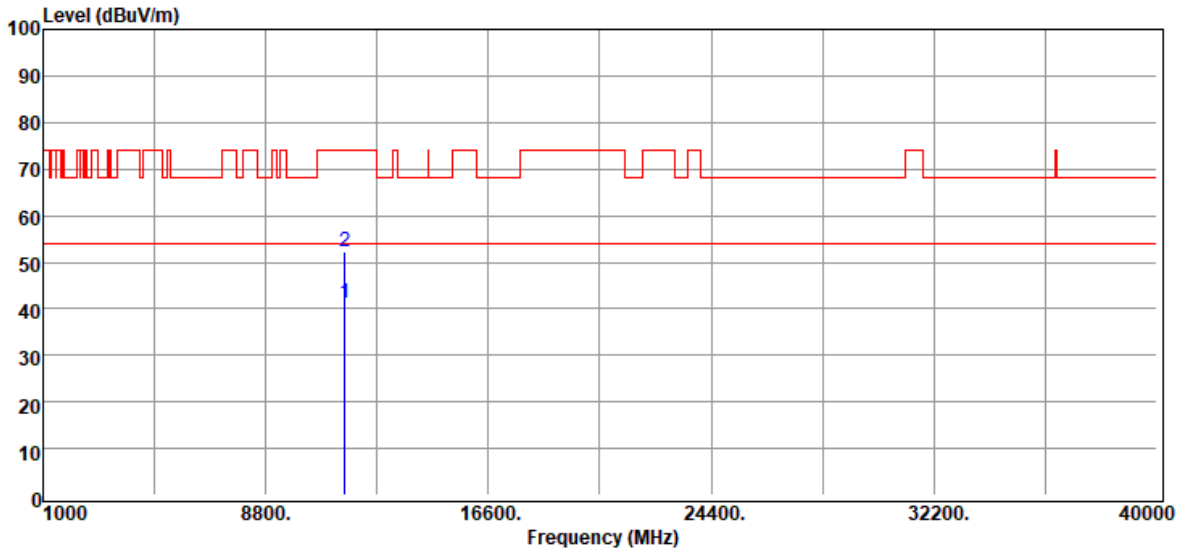
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/68
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
11570.00	Average	28.77	12.38	41.15	54.00	-12.85
11570.00	Peak	39.80	12.38	52.18	74.00	-21.82

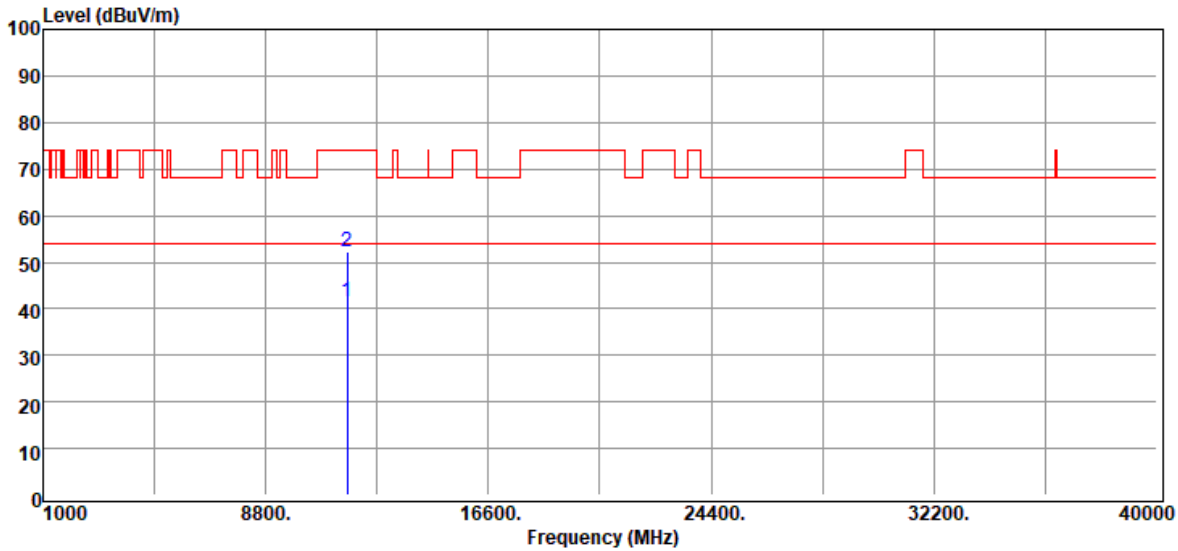
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/68
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	30.15	11.21	41.36	54.00	-12.64
11650.00	Peak	40.95	11.21	52.16	74.00	-21.84

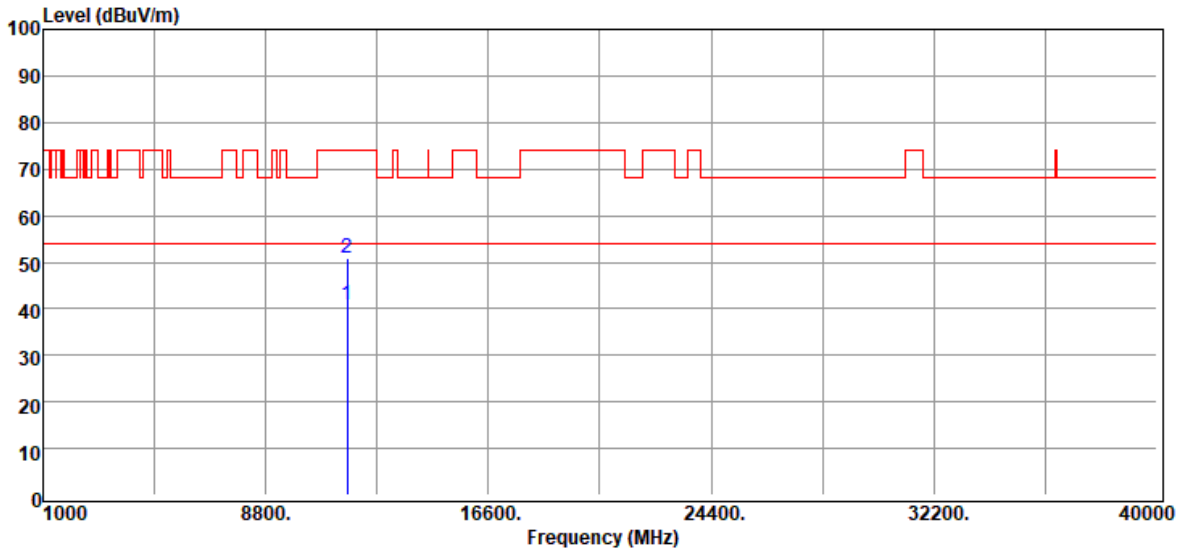
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/68
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
11650.00	Average	29.73	11.21	40.94	54.00	-13.06
11650.00	Peak	39.71	11.21	50.92	74.00	-23.08

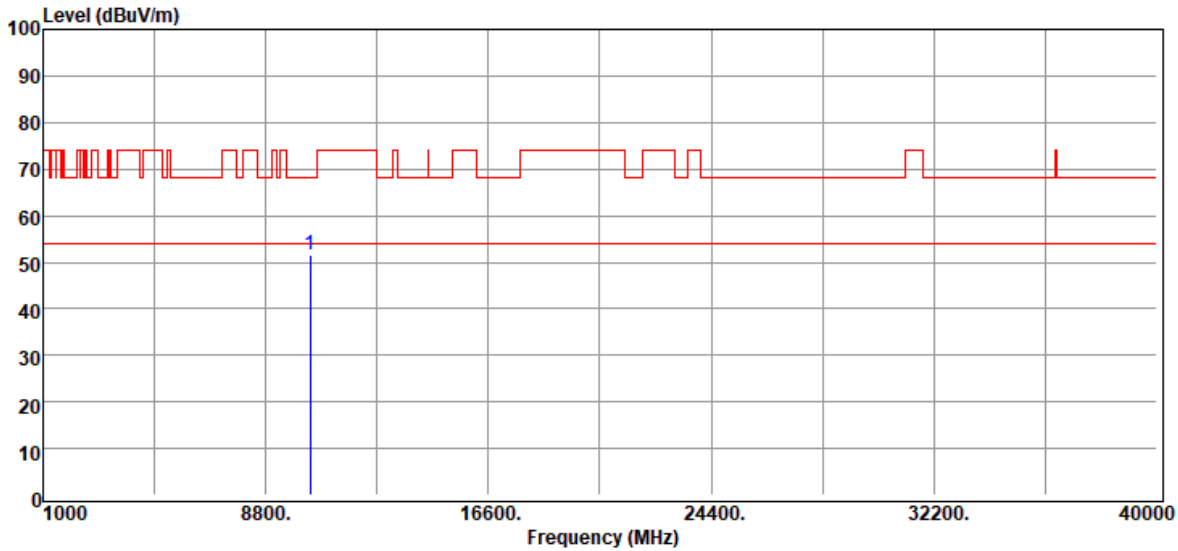
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/67
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	41.12	10.28	51.40	68.20	-16.80

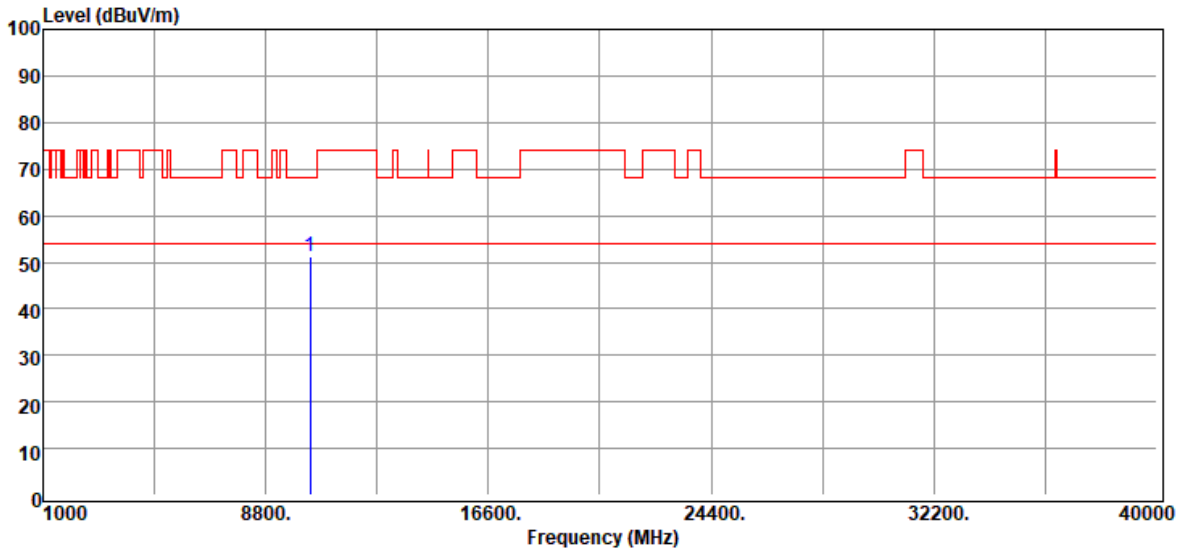
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/67
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
10360.00	Peak	40.79	10.28	51.07	68.20	-17.13

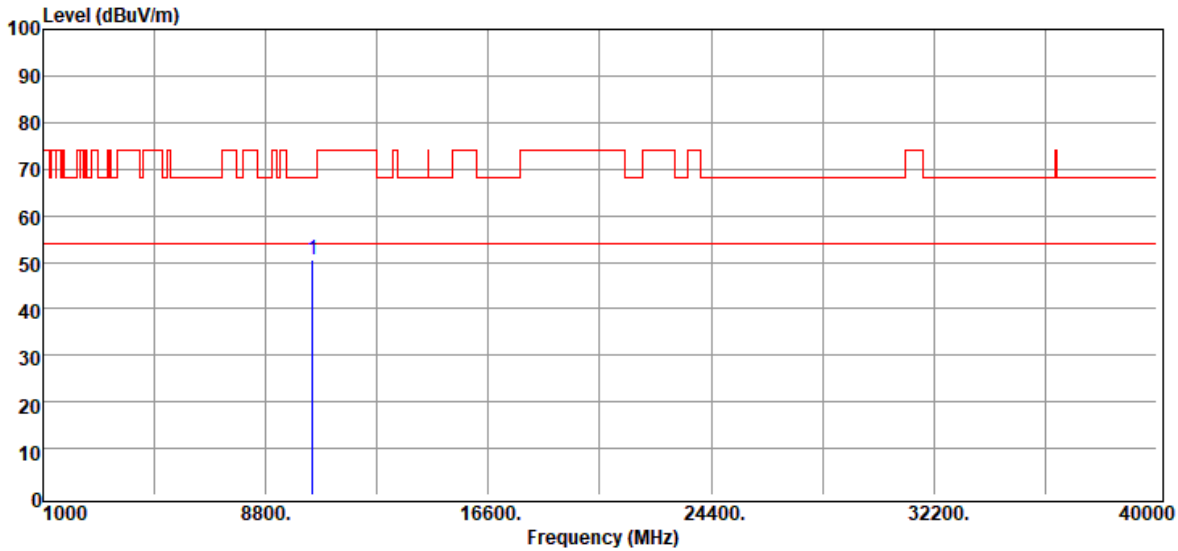
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/67
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	39.45	11.00	50.45	68.20	-17.75

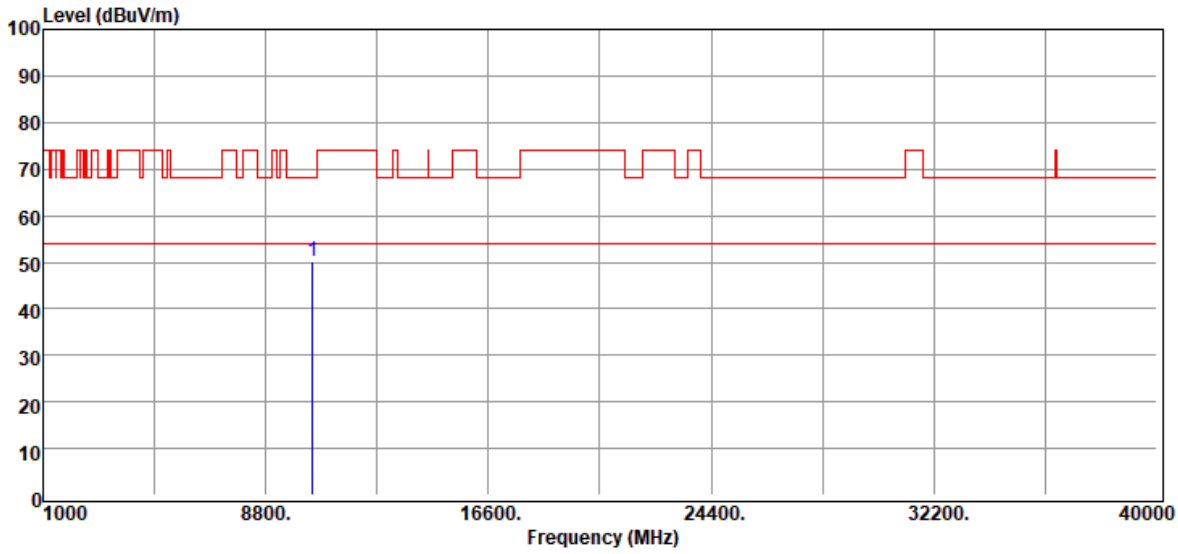
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/67
 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
10440.00	Peak	39.08	11.00	50.08	68.20	-18.12

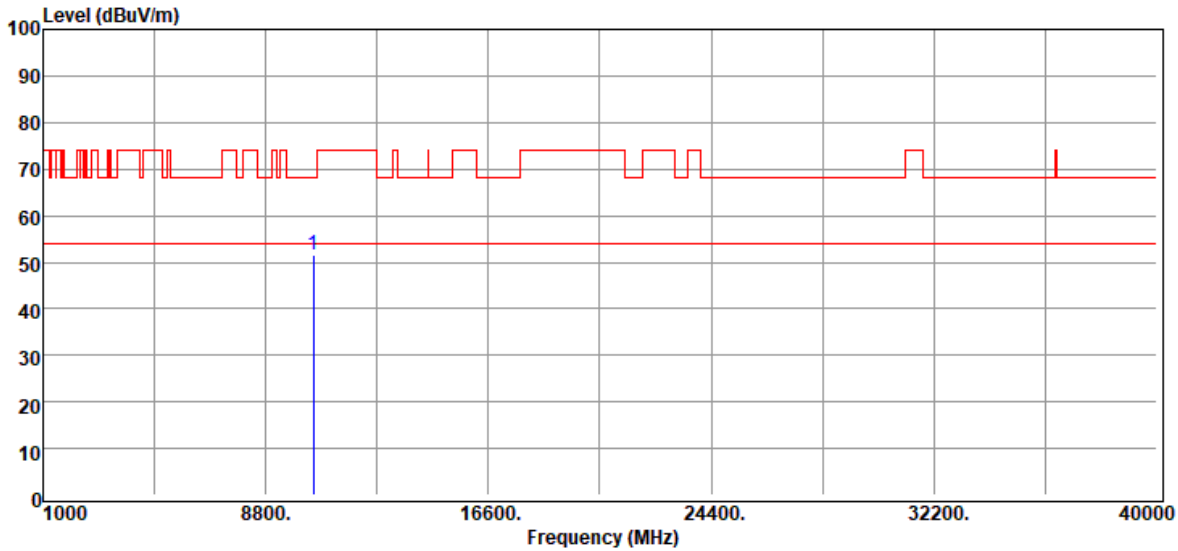
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/67
 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	40.44	11.18	51.62	68.20	-16.58

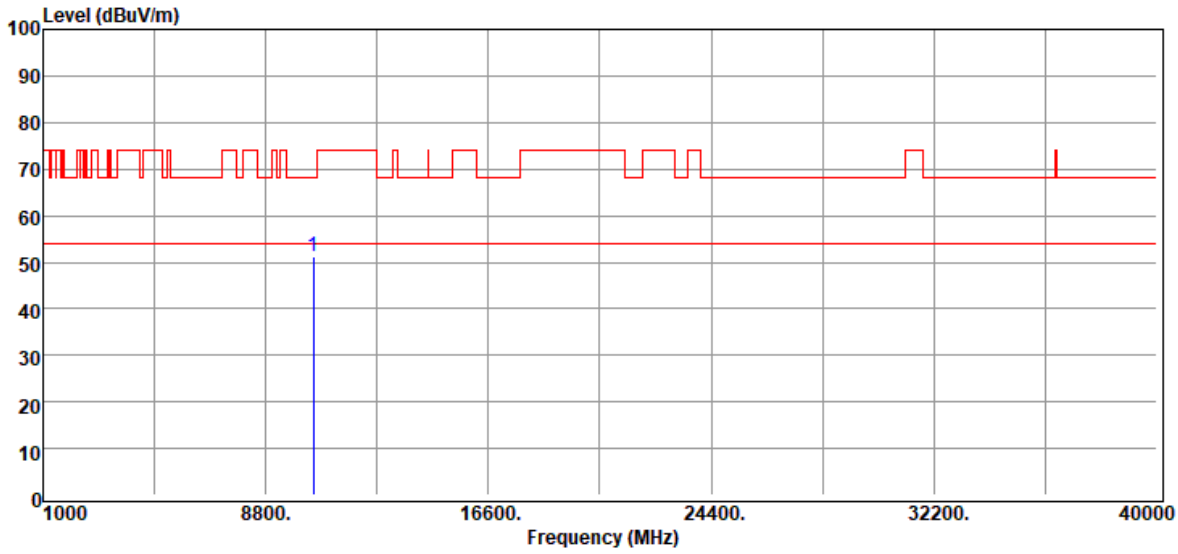
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/67
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
10480.00	Peak	39.98	11.18	51.16	68.20	-17.04

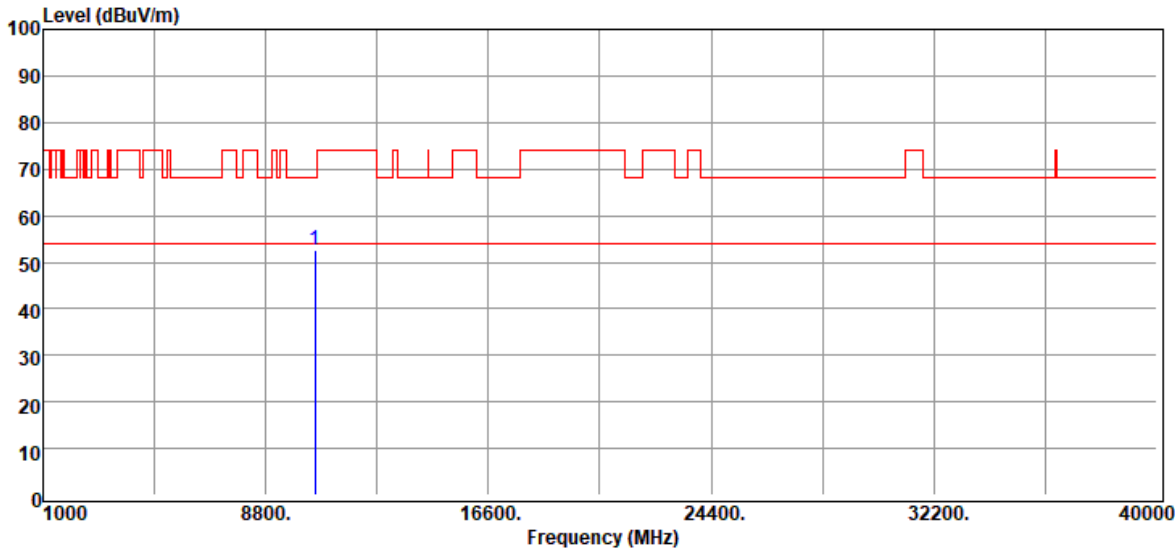
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 2
 Test Frequency :5260 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.7/66
 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	41.23	11.22	52.45	68.20	-15.75

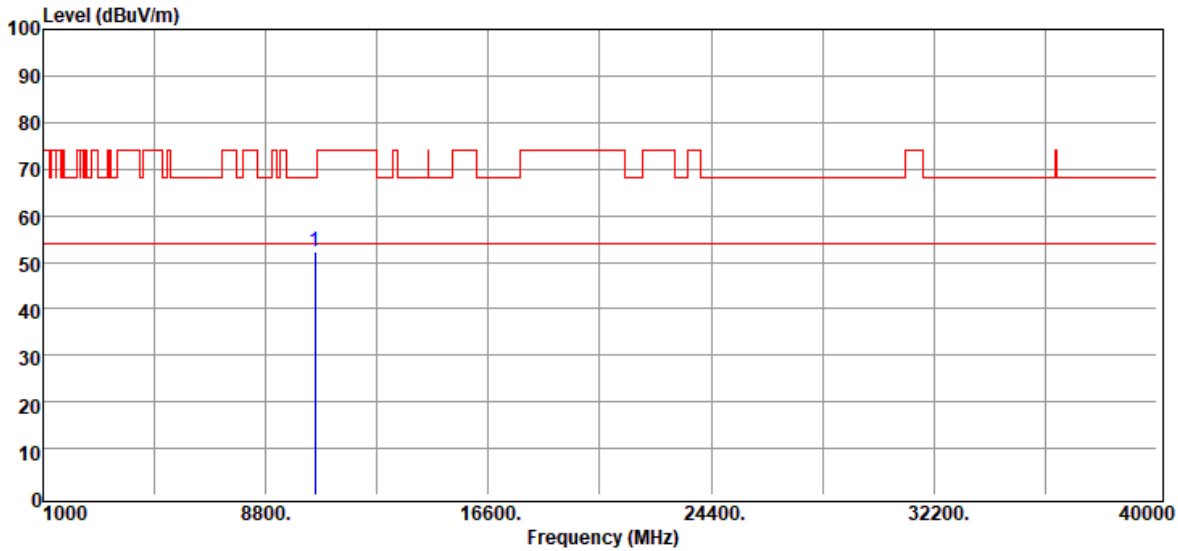
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/66
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
10520.00	Peak	40.90	11.22	52.12	68.20	-16.08

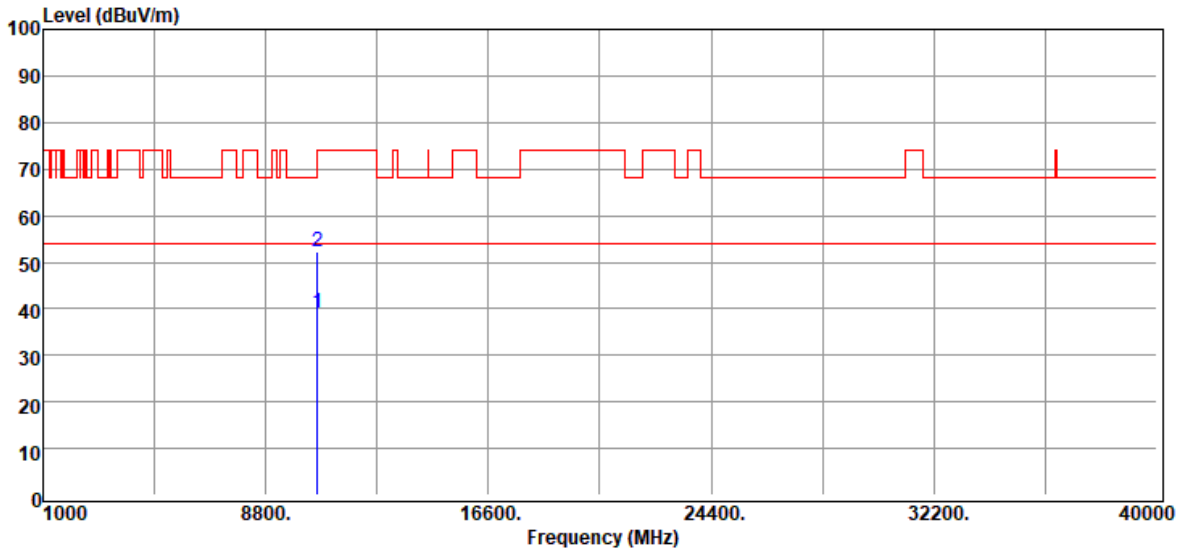
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/66
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	28.11	11.10	39.21	54.00	-14.79
10600.00	Peak	41.01	11.10	52.11	74.00	-21.89

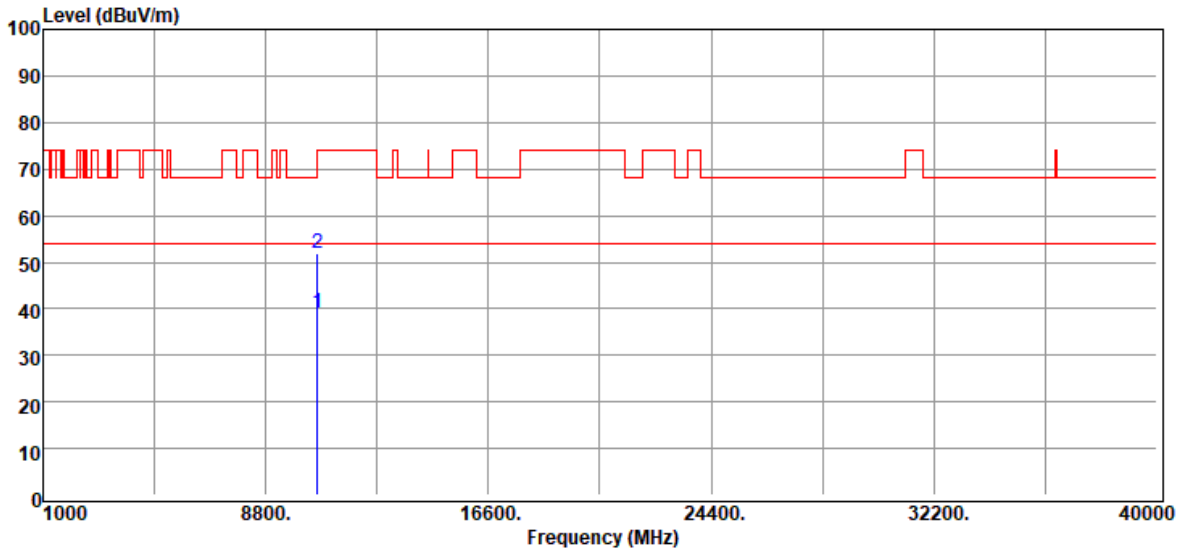
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/66
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
10600.00	Average	27.98	11.10	39.08	54.00	-14.92
10600.00	Peak	40.71	11.10	51.81	74.00	-22.19

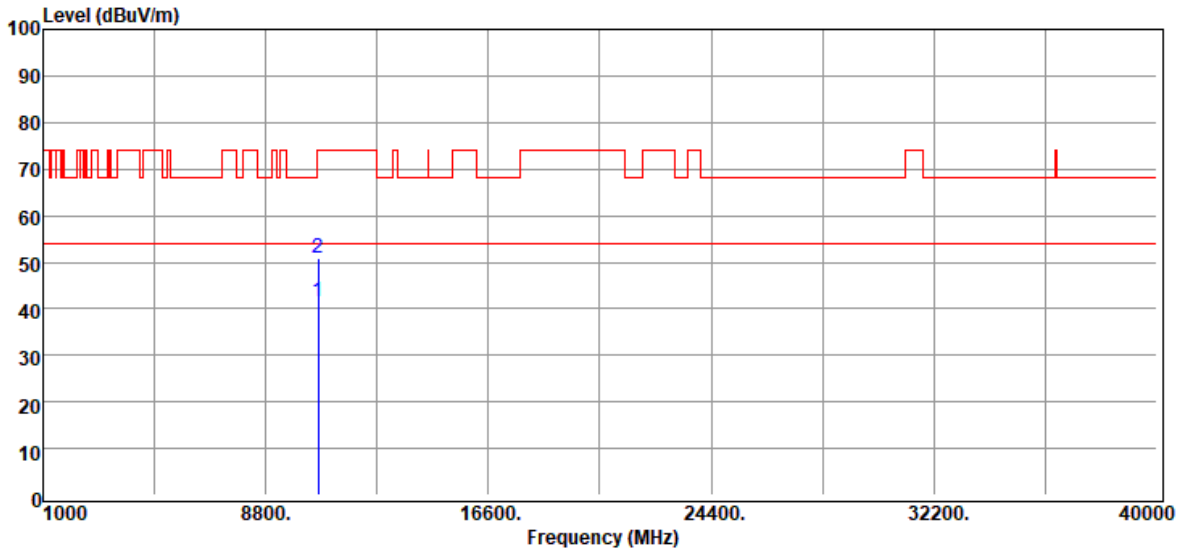
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.7/66
 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	30.52	11.12	41.64	54.00	-12.36
10640.00	Peak	39.79	11.12	50.91	74.00	-23.09

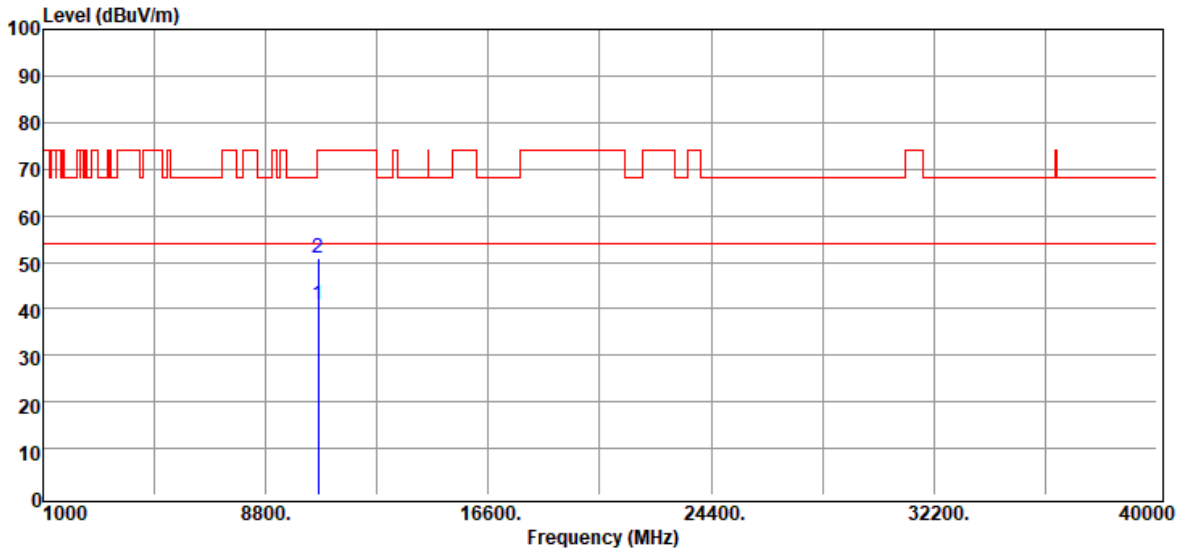
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.7/66
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
10640.00	Average	29.68	11.12	40.80	54.00	-13.20
10640.00	Peak	39.68	11.12	50.80	74.00	-23.20

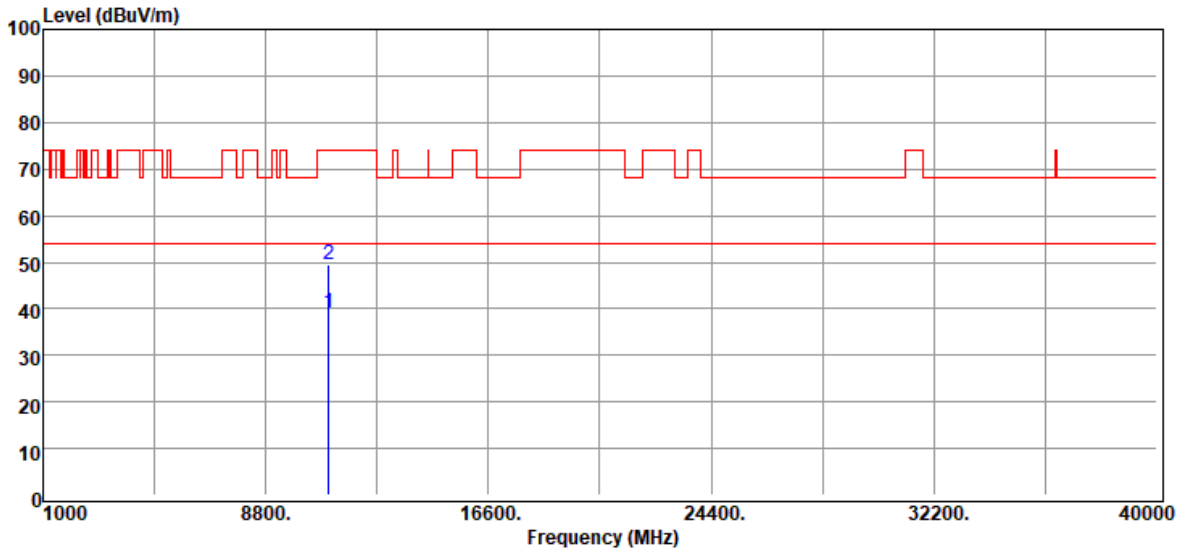
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/66
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
11000.00	Average	29.36	9.88	39.24	54.00	-14.76
11000.00	Peak	39.70	9.88	49.58	74.00	-24.42

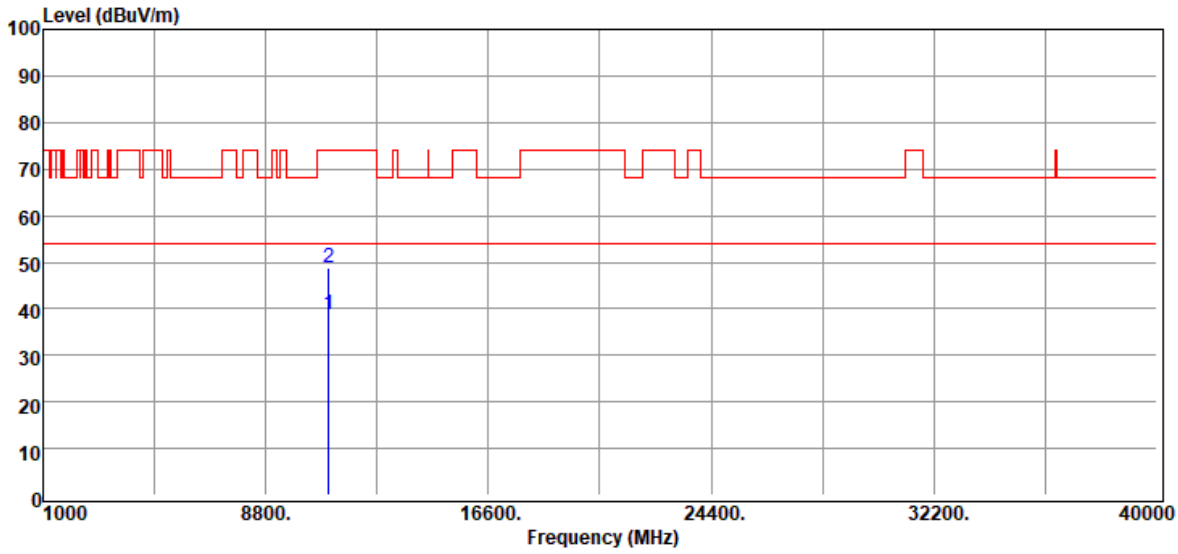
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/66
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
11000.00	Average	29.01	9.88	38.89	54.00	-15.11
11000.00	Peak	39.03	9.88	48.91	74.00	-25.09

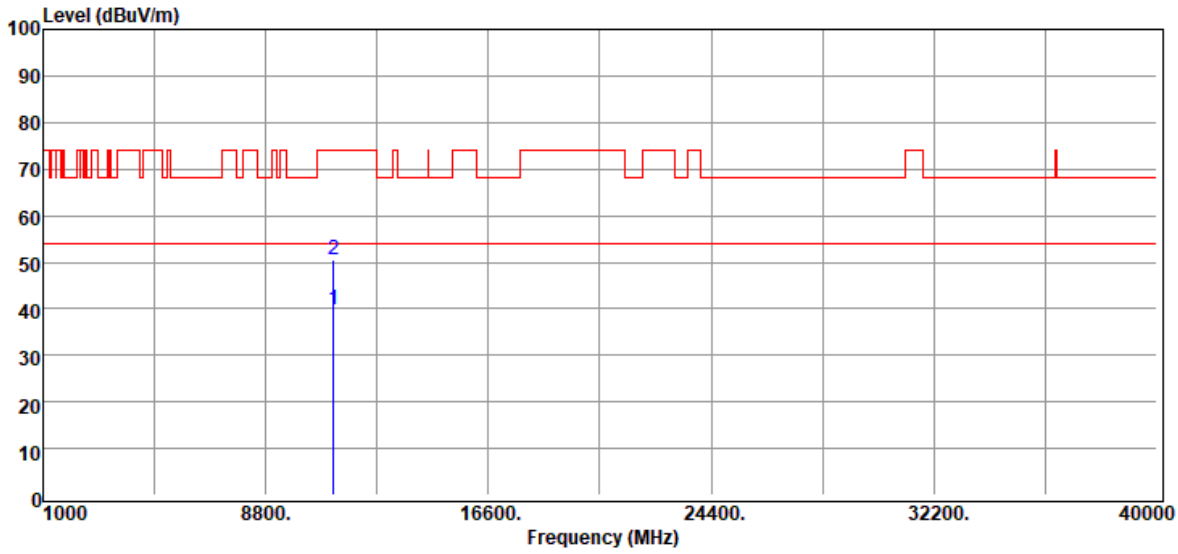
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/66
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
11160.00	Average	29.43	10.39	39.82	54.00	-14.18
11160.00	Peak	40.08	10.39	50.47	74.00	-23.53

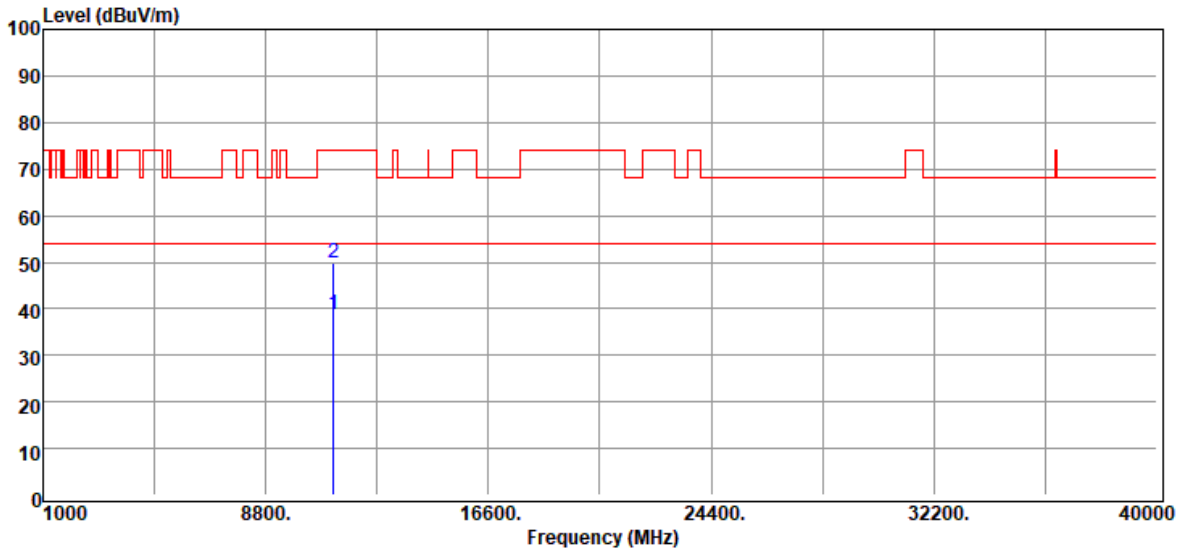
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/66
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
11160.00	Average	28.20	10.39	38.59	54.00	-15.41
11160.00	Peak	39.32	10.39	49.71	74.00	-24.29

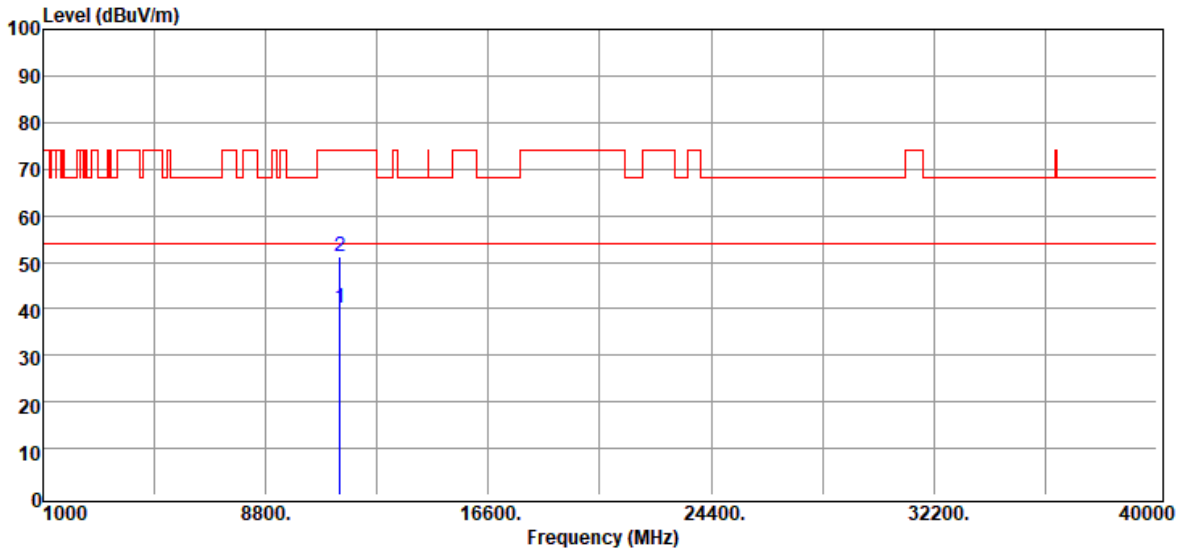
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/66
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	28.95	11.09	40.04	54.00	-13.96
11400.00	Peak	40.11	11.09	51.20	74.00	-22.80

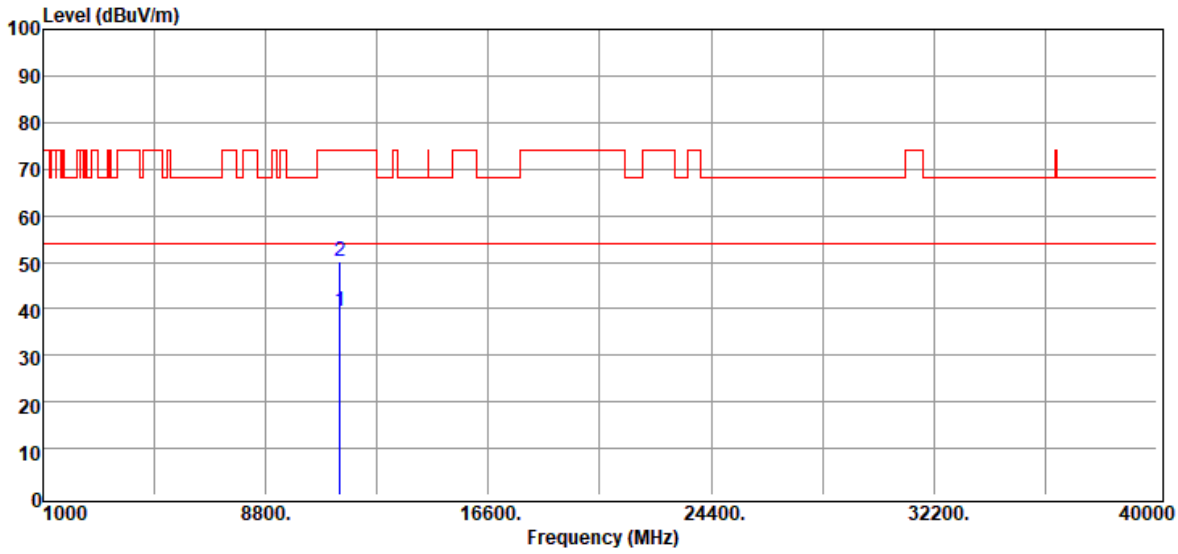
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/66
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
11400.00	Average	28.34	11.09	39.43	54.00	-14.57
11400.00	Peak	39.04	11.09	50.13	74.00	-23.87

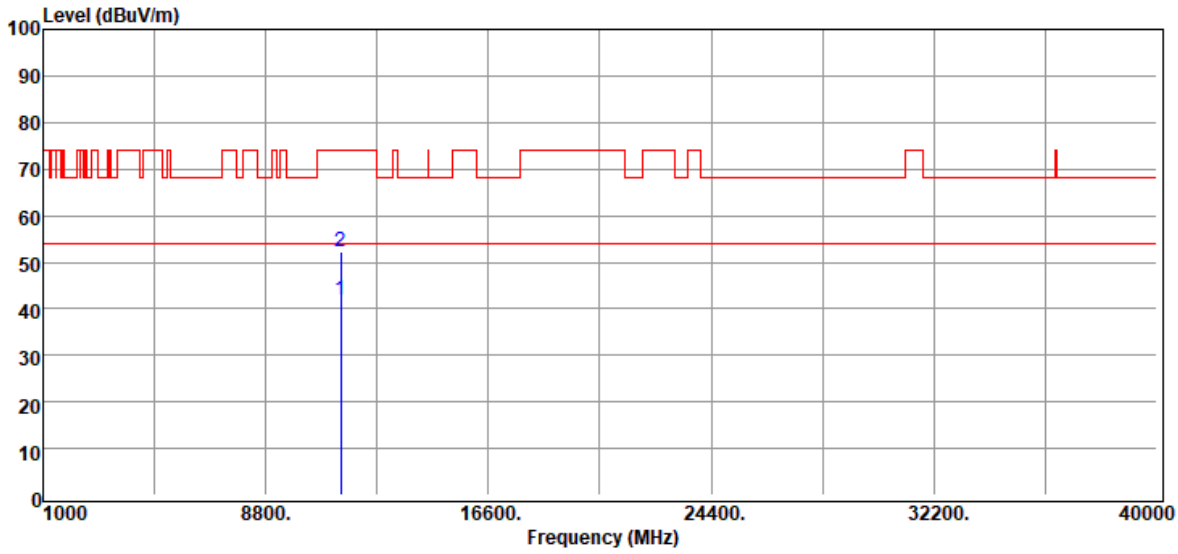
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/67
 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	30.18	11.81	41.99	54.00	-12.01
11440.00	Peak	40.37	11.81	52.18	74.00	-21.82

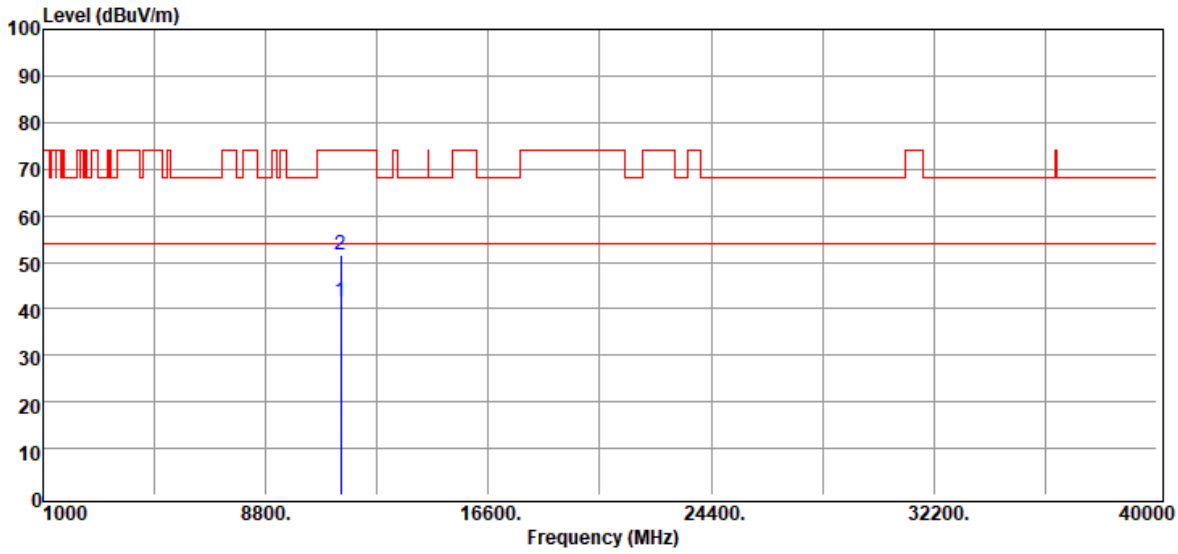
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/67
 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
11440.00	Average	29.70	11.81	41.51	54.00	-12.49
11440.00	Peak	39.78	11.81	51.59	74.00	-22.41

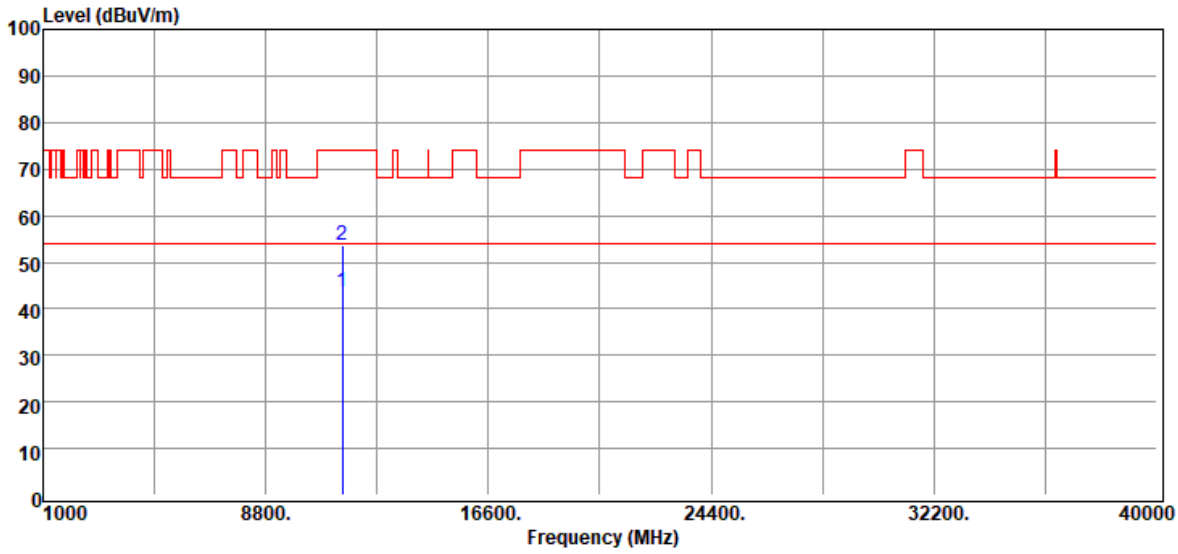
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/66
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	30.74	12.69	43.43	54.00	-10.57
11490.00	Peak	41.02	12.69	53.71	74.00	-20.29

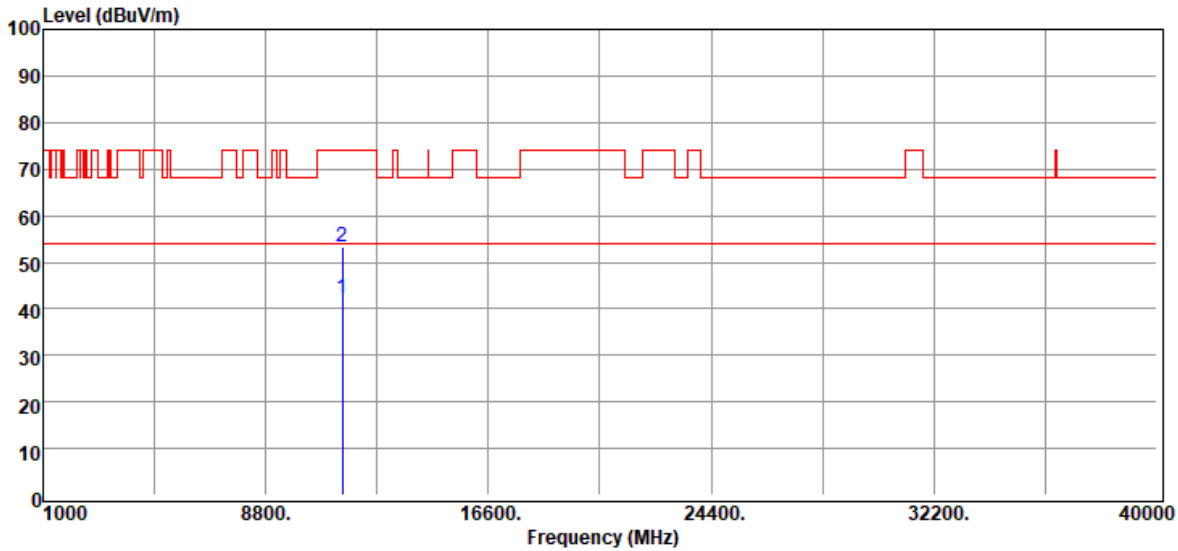
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/66
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
11490.00	Average	29.68	12.69	42.37	54.00	-11.63
11490.00	Peak	40.61	12.69	53.30	74.00	-20.70

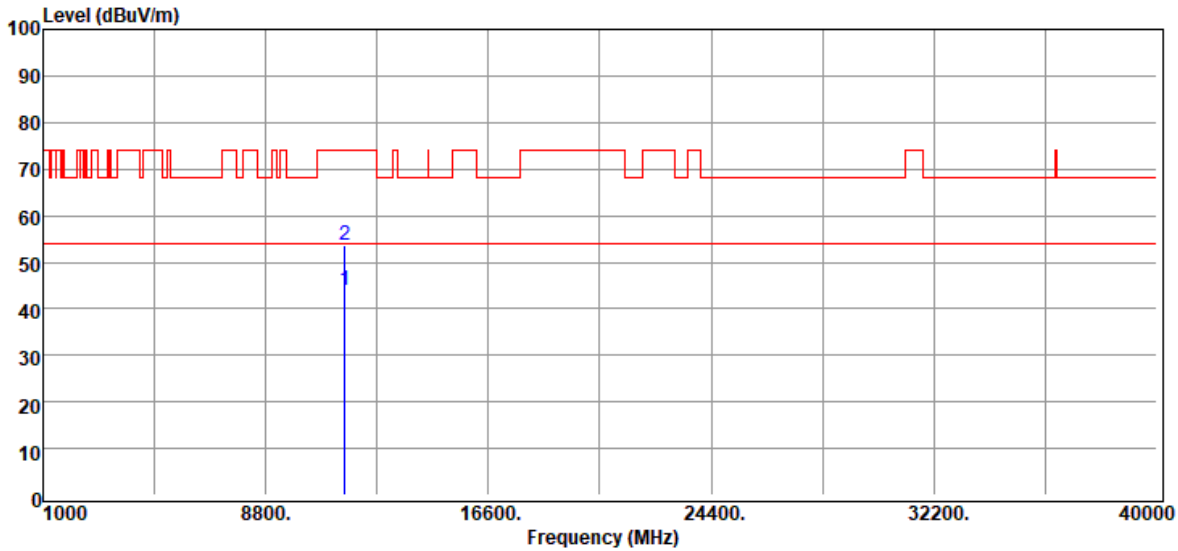
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/67
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	31.62	12.38	44.00	54.00	-10.00
11570.00	Peak	41.22	12.38	53.60	74.00	-20.40

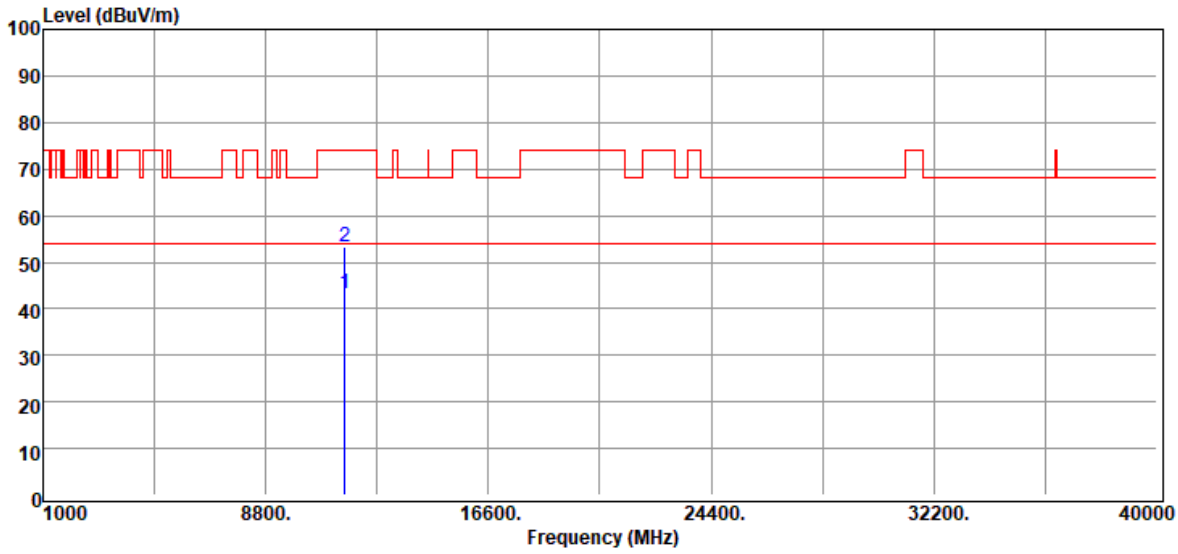
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.6/67
 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
11570.00	Average	30.98	12.38	43.36	54.00	-10.64
11570.00	Peak	40.97	12.38	53.35	74.00	-20.65

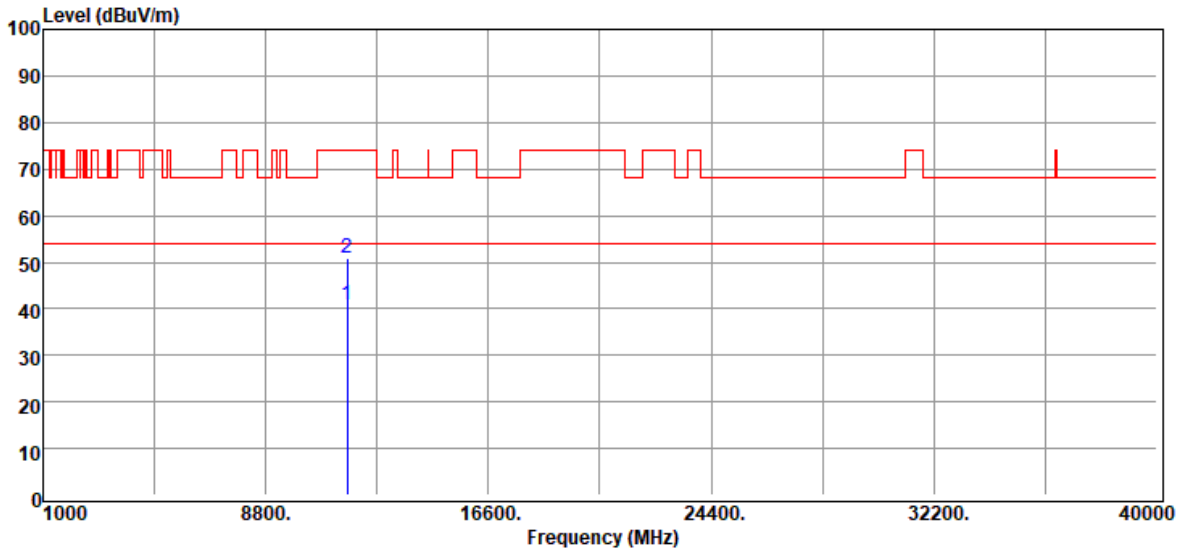
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/67
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	29.66	11.21	40.87	54.00	-13.13
11650.00	Peak	39.74	11.21	50.95	74.00	-23.05

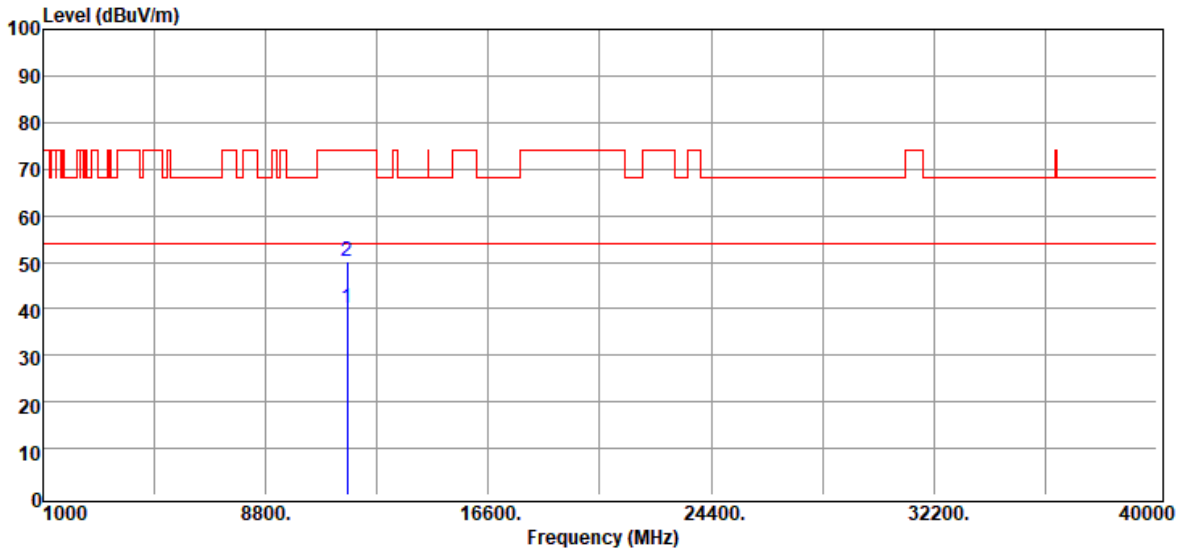
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/67
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
11650.00	Average	28.79	11.21	40.00	54.00	-14.00
11650.00	Peak	39.01	11.21	50.22	74.00	-23.78

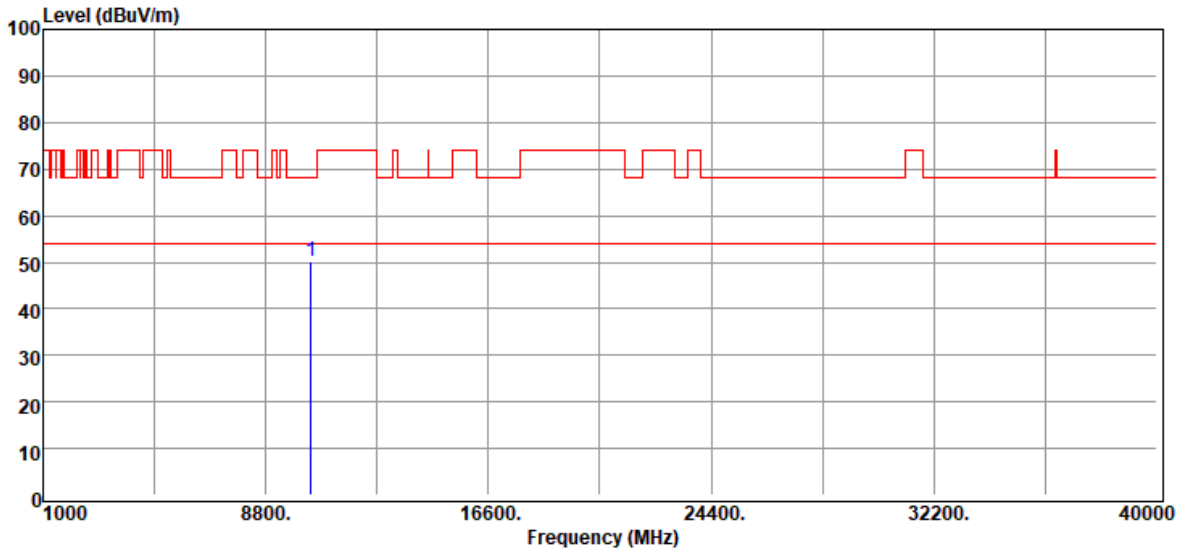
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10380.00	Peak	39.73	10.57	50.30	68.20	-17.90

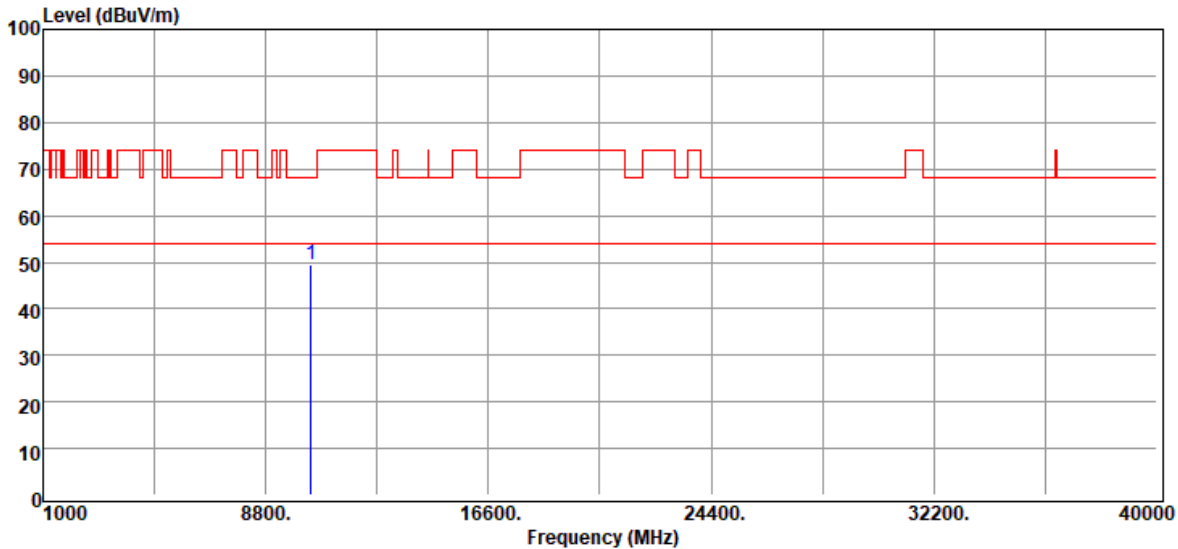
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10380.00	Peak	39.06	10.57	49.63	68.20	-18.57

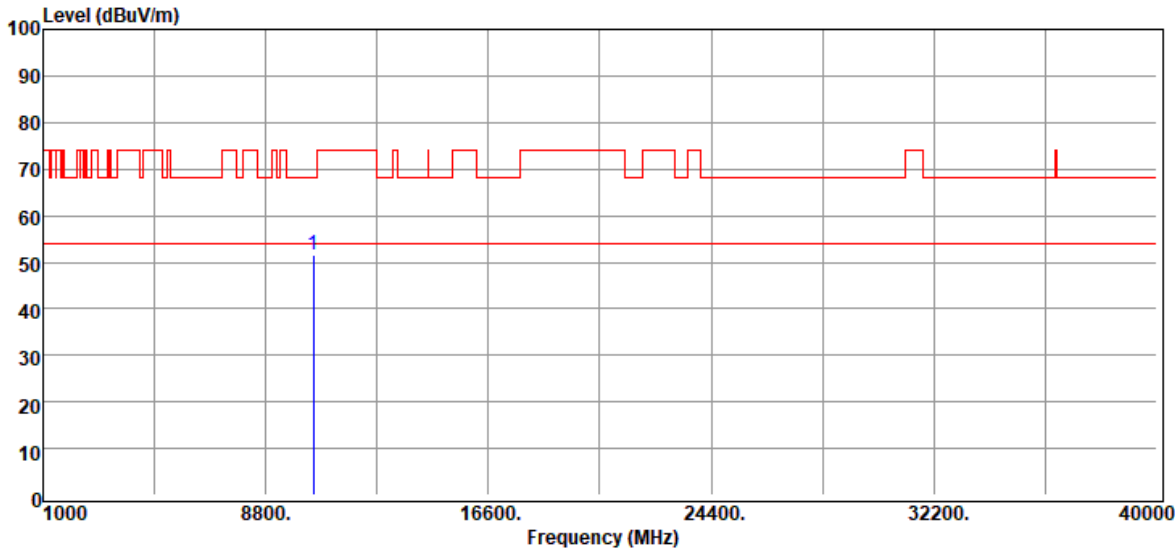
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10460.00	Peak	40.61	11.10	51.71	68.20	-16.49

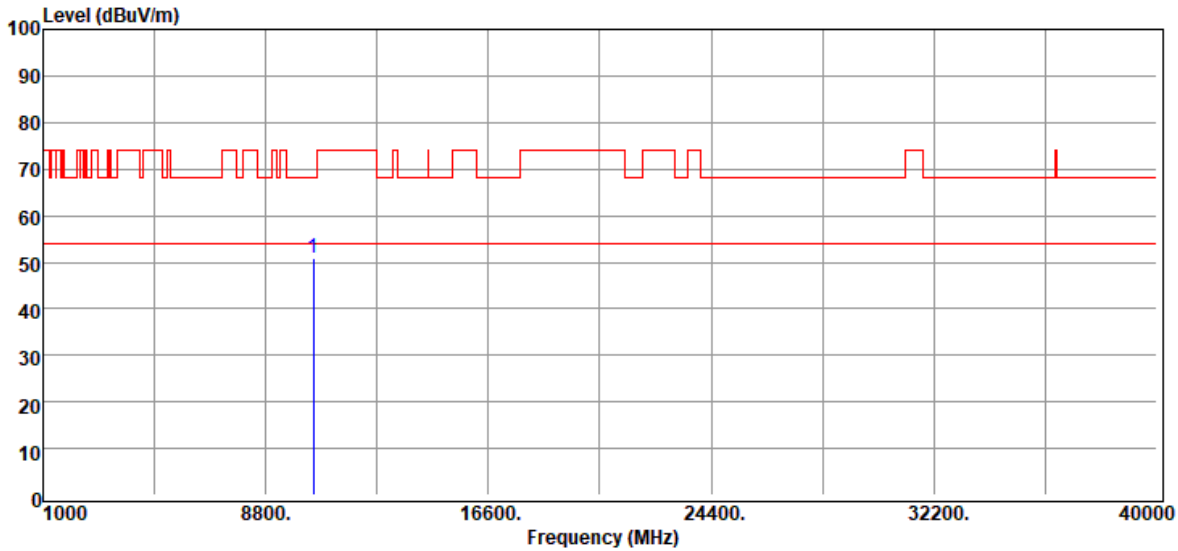
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10460.00	Peak	39.88	11.10	50.98	68.20	-17.22

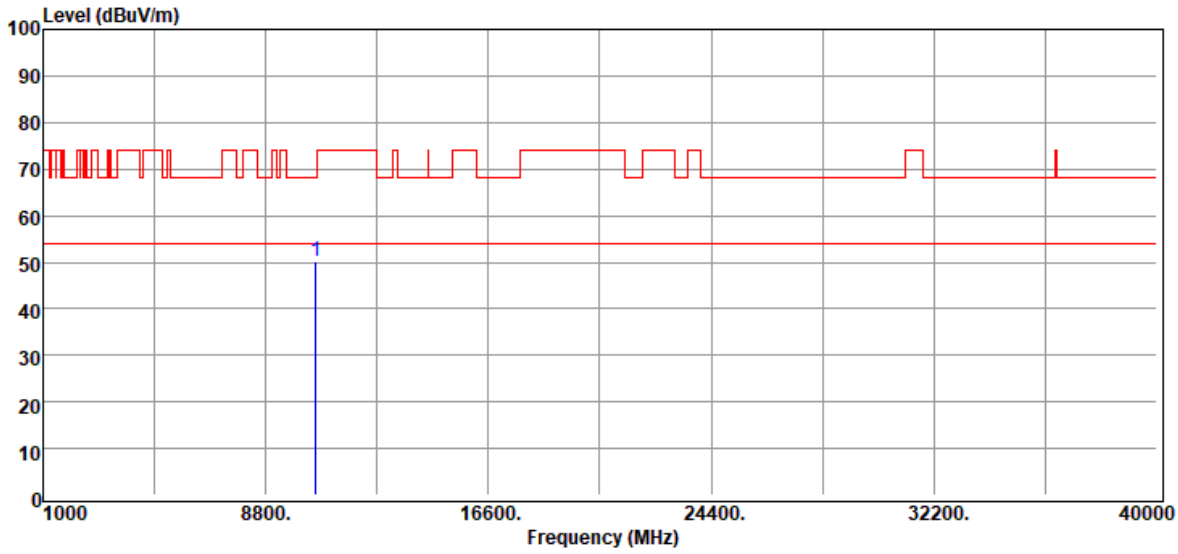
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 2
 Test Frequency :5270 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.6/65
 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
10540.00	Peak	39.01	11.20	50.21	68.20	-17.99

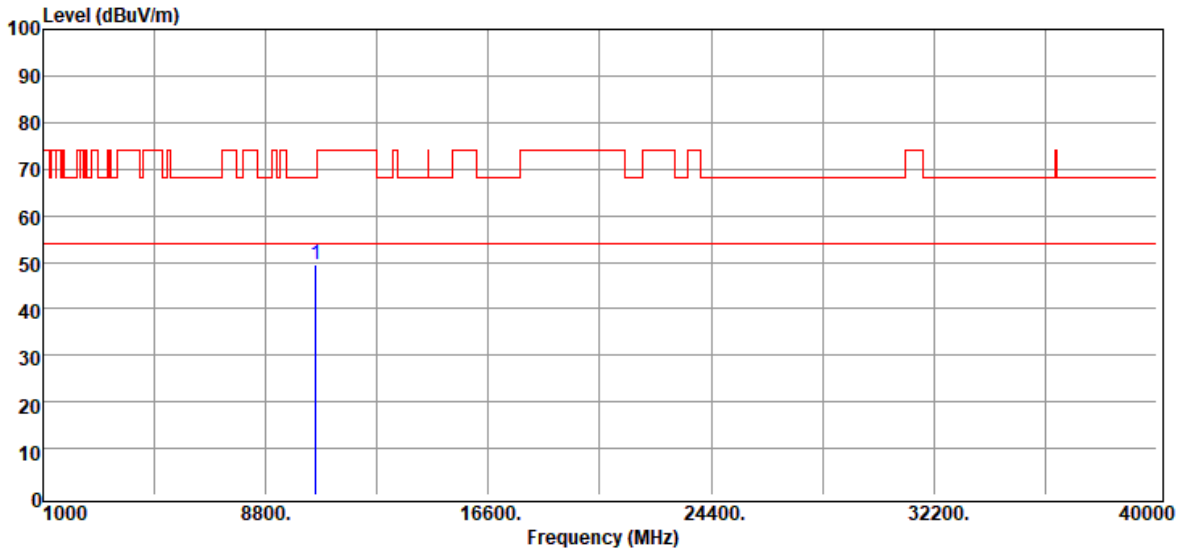
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10540.00	Peak	38.40	11.20	49.60	68.20	-18.60

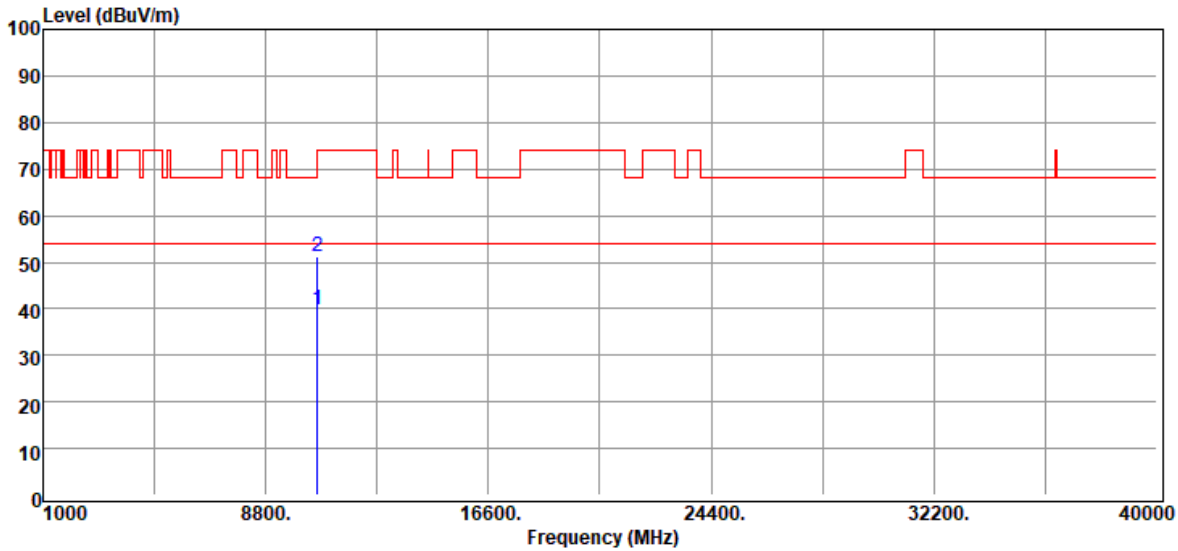
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10620.00	Average	28.78	11.10	39.88	54.00	-14.12
10620.00	Peak	39.99	11.10	51.09	74.00	-22.91

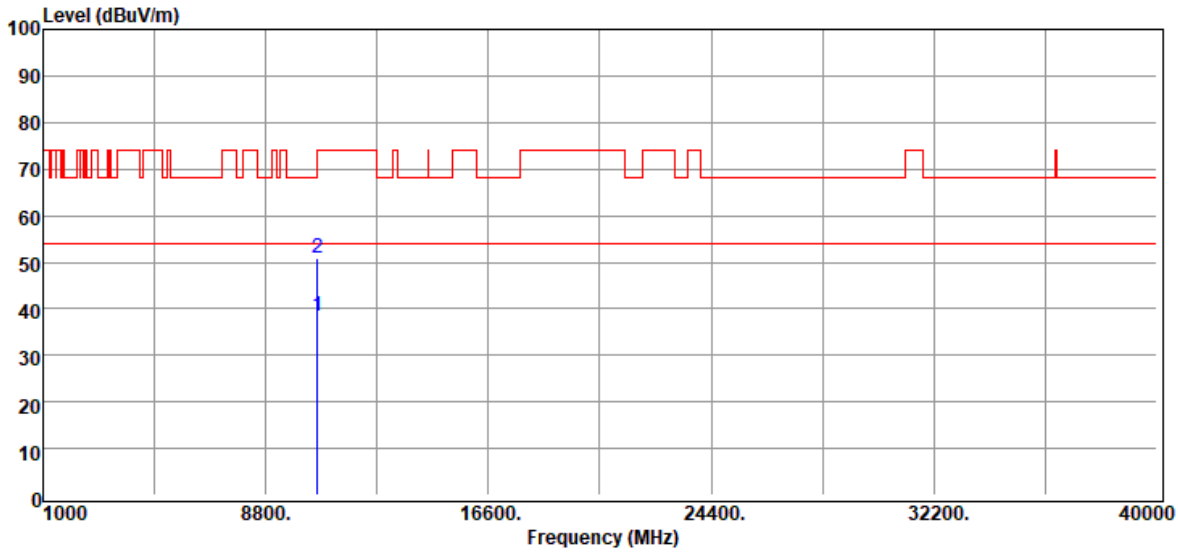
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.6/65
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
10620.00	Average	27.47	11.10	38.57	54.00	-15.43
10620.00	Peak	39.65	11.10	50.75	74.00	-23.25

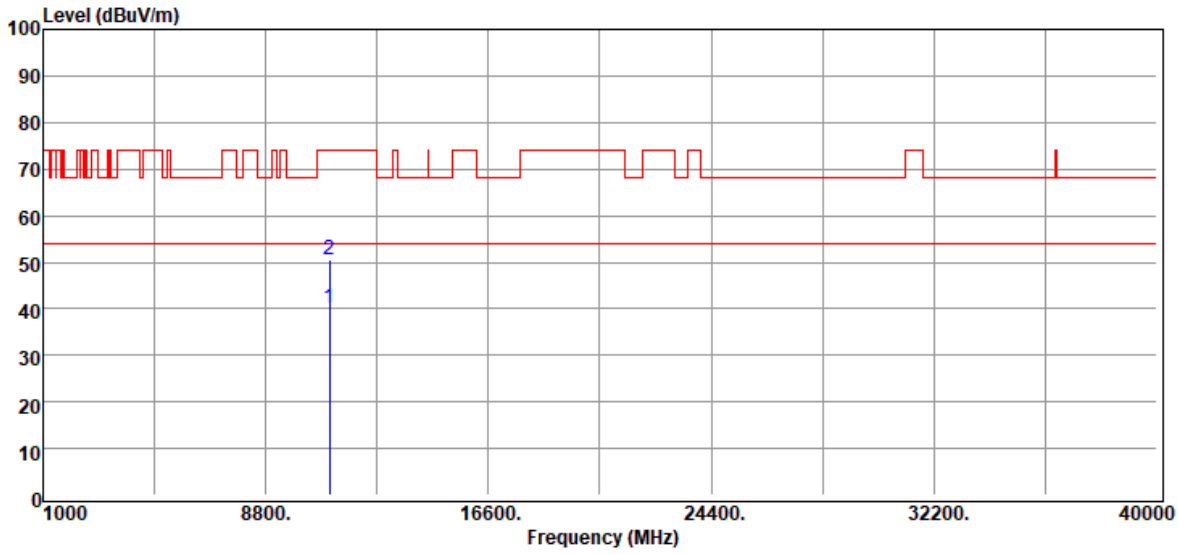
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/64
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
11020.00	Average	30.11	9.98	40.09	54.00	-13.91
11020.00	Peak	40.51	9.98	50.49	74.00	-23.51

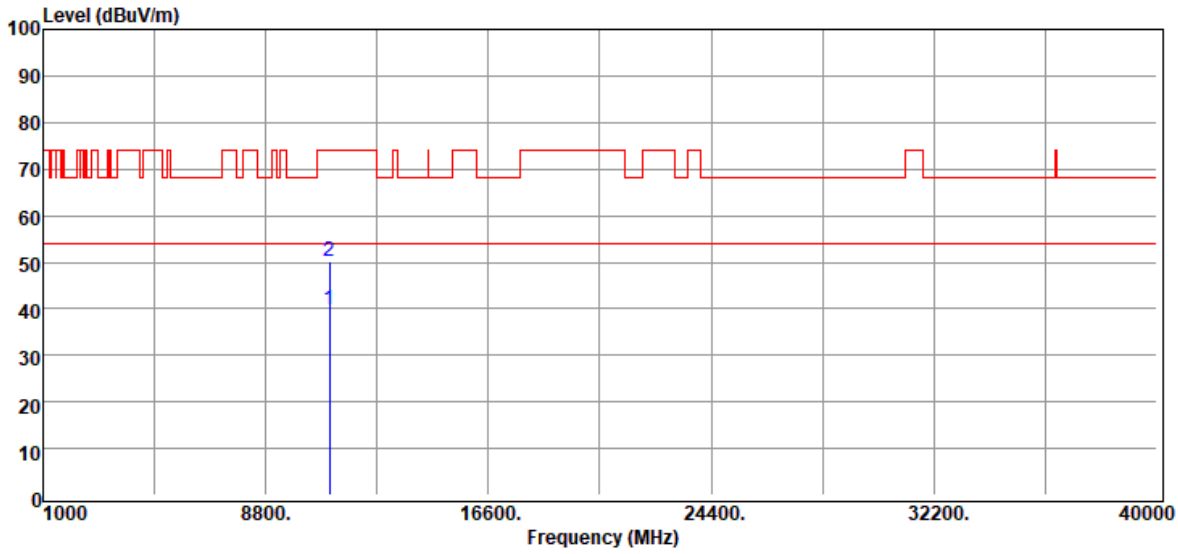
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/64
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
11020.00	Average	29.74	9.98	39.72	54.00	-14.28
11020.00	Peak	40.15	9.98	50.13	74.00	-23.87

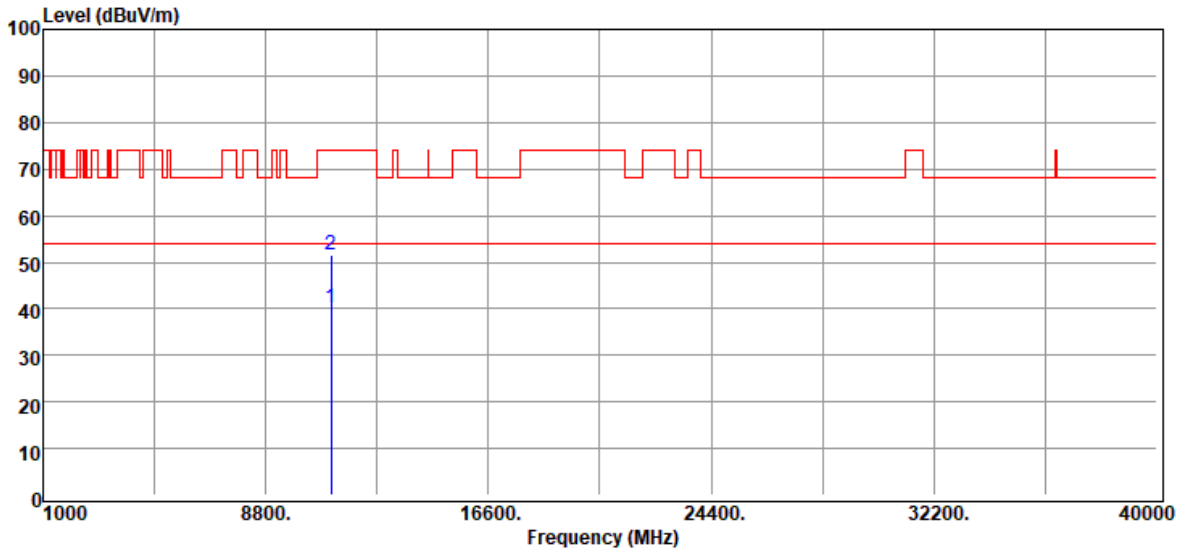
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/64
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
11100.00	Average	29.74	10.40	40.14	54.00	-13.86
11100.00	Peak	41.11	10.40	51.51	74.00	-22.49

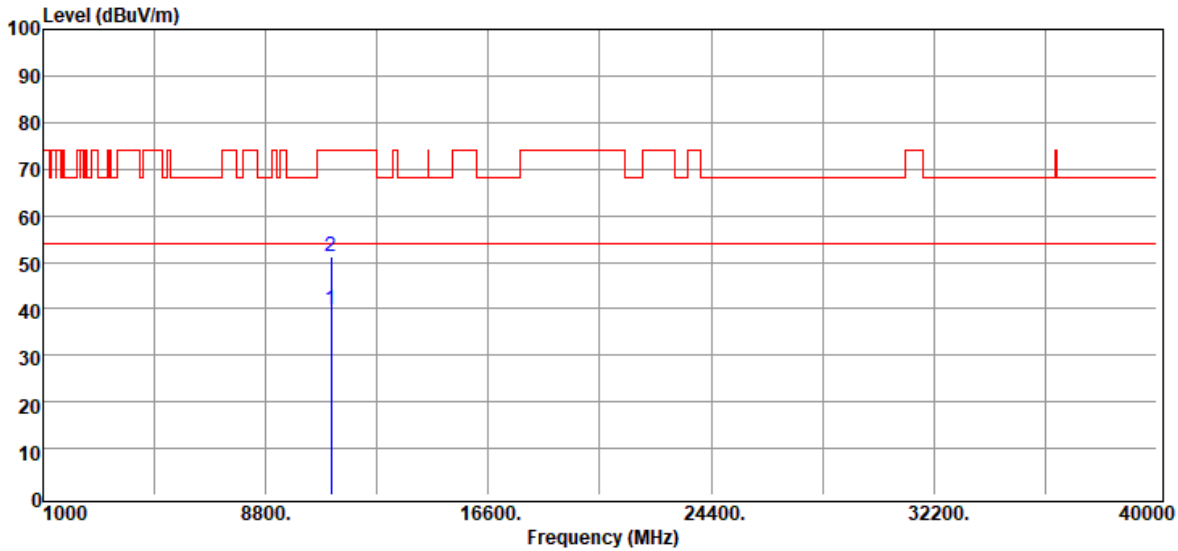
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5550 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/64
 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
11100.00	Average	29.31	10.40	39.71	54.00	-14.29
11100.00	Peak	40.78	10.40	51.18	74.00	-22.82

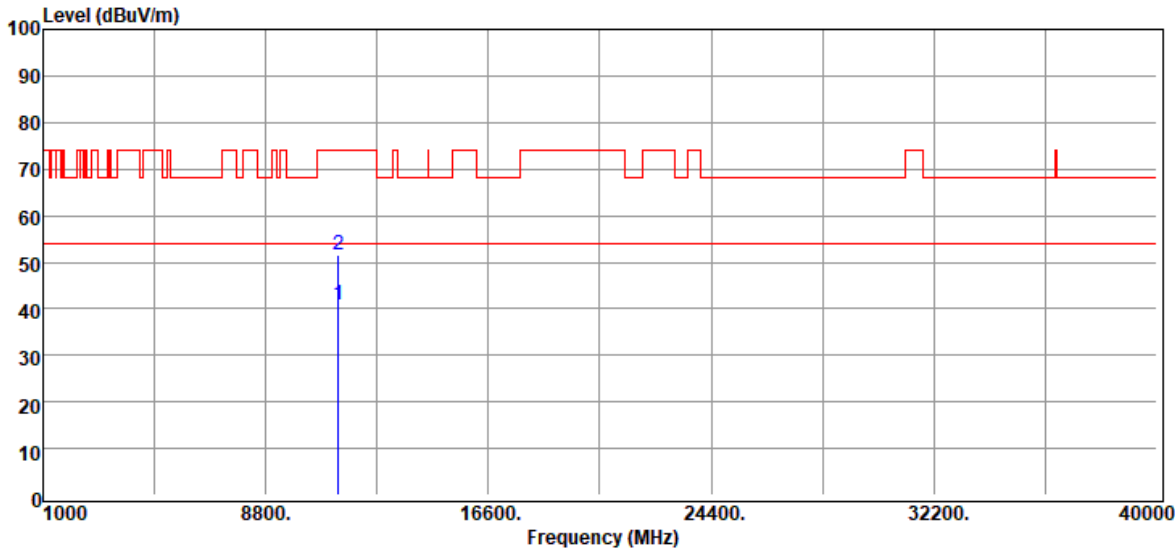
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/64
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
11340.00	Average	29.60	11.26	40.86	54.00	-13.14
11340.00	Peak	40.19	11.26	51.45	74.00	-22.55

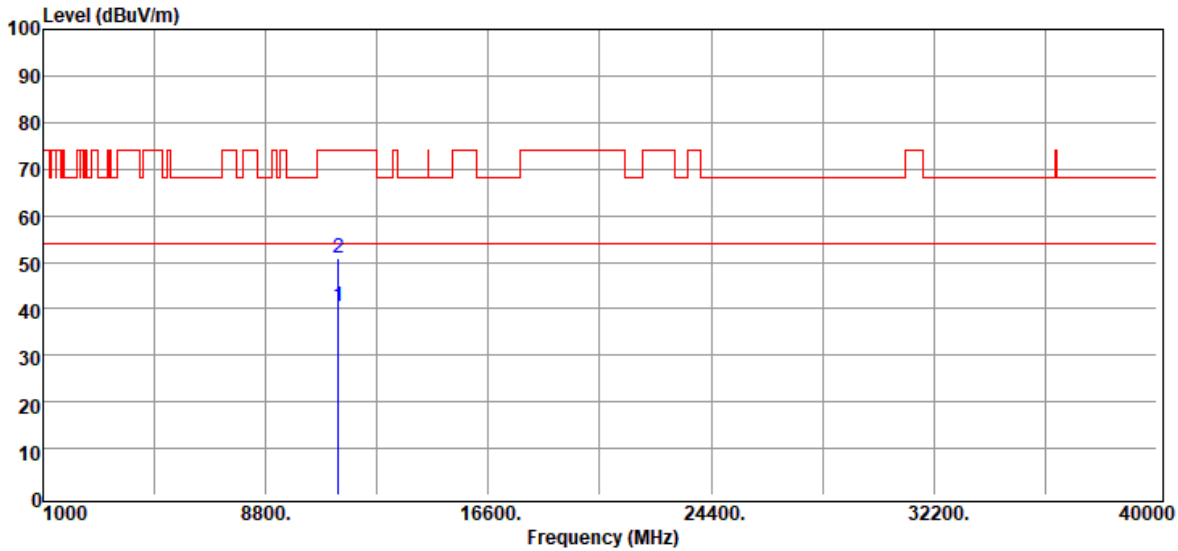
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/64
 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
11340.00	Average	29.07	11.26	40.33	54.00	-13.67
11340.00	Peak	39.73	11.26	50.99	74.00	-23.01

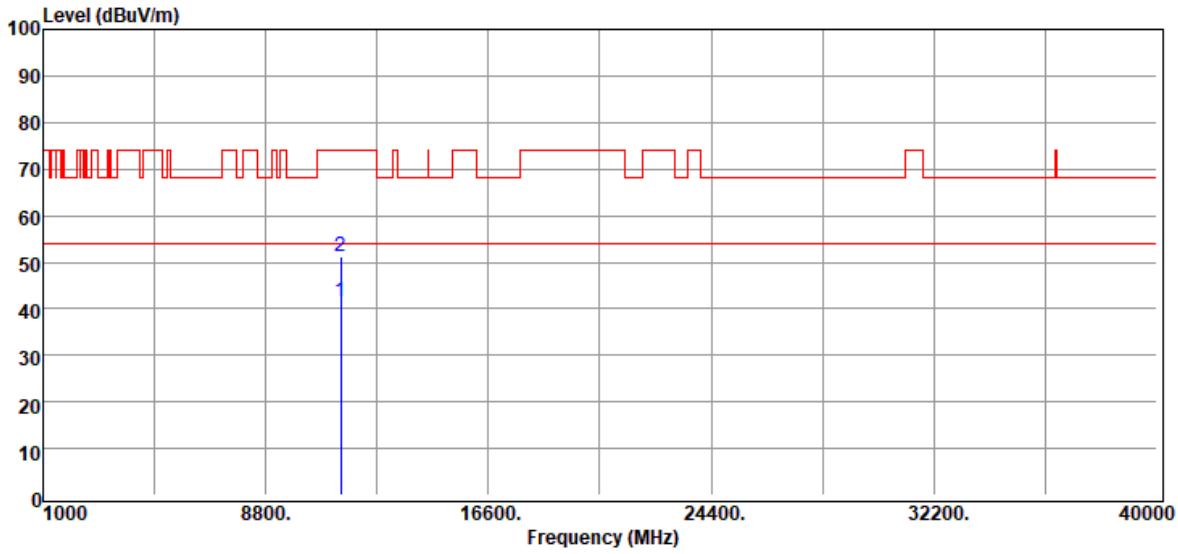
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 3-4
 Test Frequency :5710 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/64
 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
11420.00	Average	30.19	11.45	41.64	54.00	-12.36
11420.00	Peak	39.74	11.45	51.19	74.00	-22.81

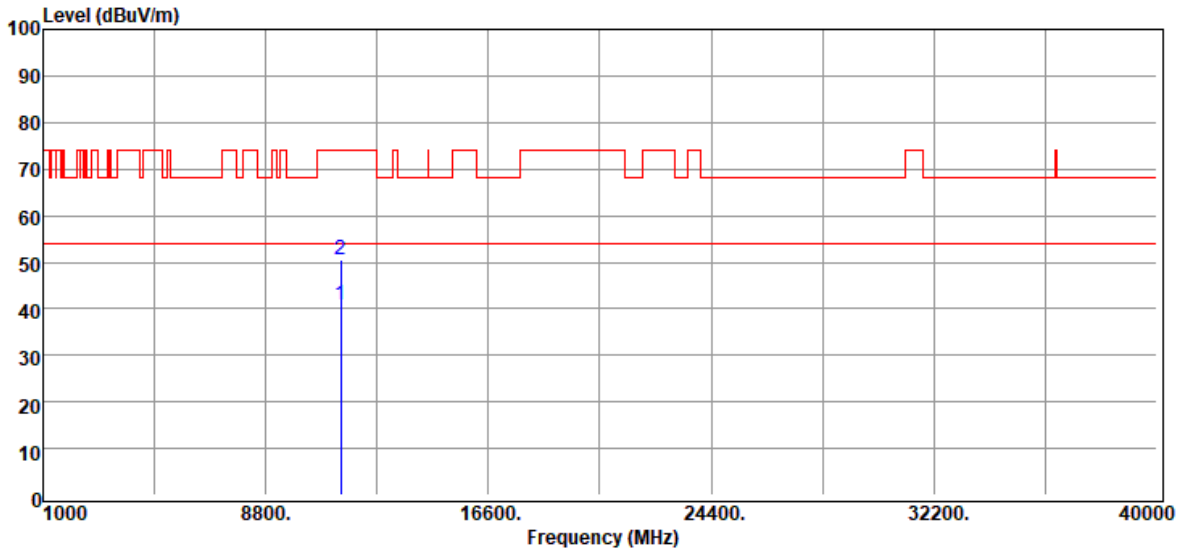
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/64
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
11420.00	Average	29.49	11.45	40.94	54.00	-13.06
11420.00	Peak	39.07	11.45	50.52	74.00	-23.48

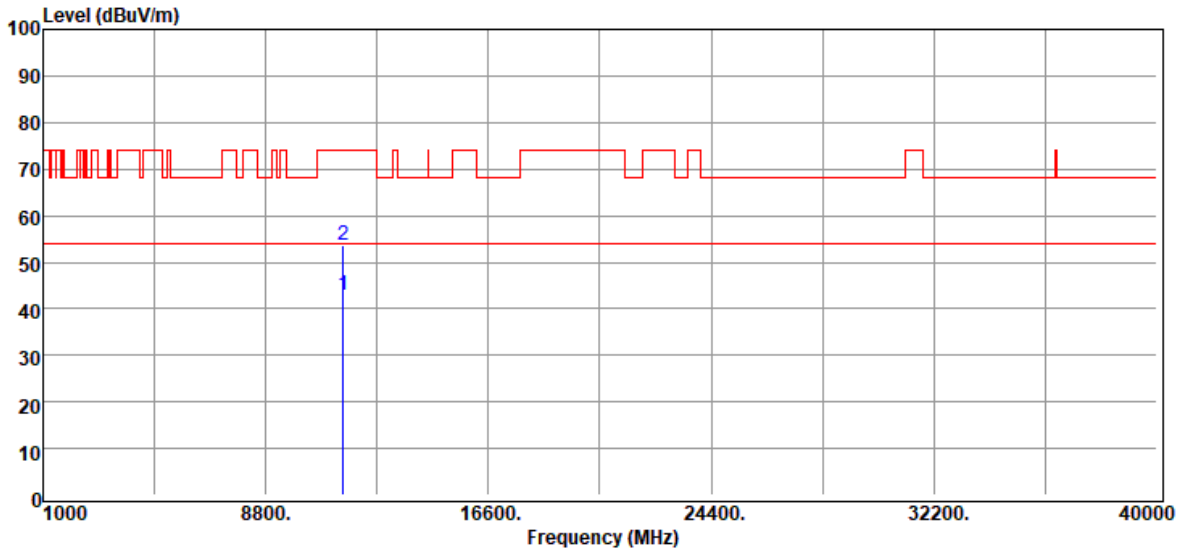
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/64
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
11510.00	Average	30.15	12.80	42.95	54.00	-11.05
11510.00	Peak	40.67	12.80	53.47	74.00	-20.53

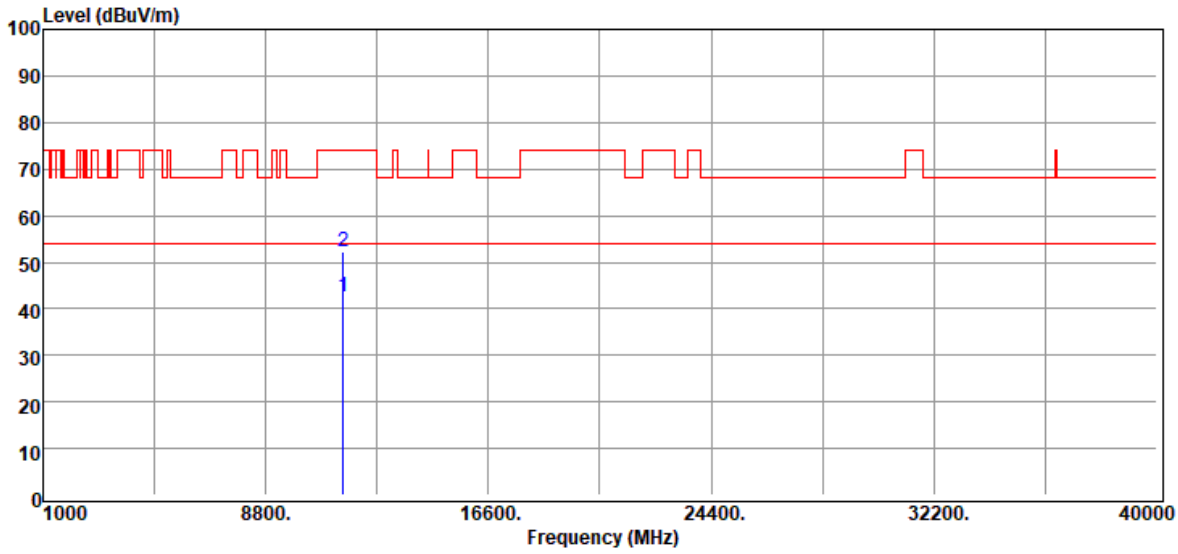
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/64
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
11510.00	Average	29.84	12.80	42.64	54.00	-11.36
11510.00	Peak	39.61	12.80	52.41	74.00	-21.59

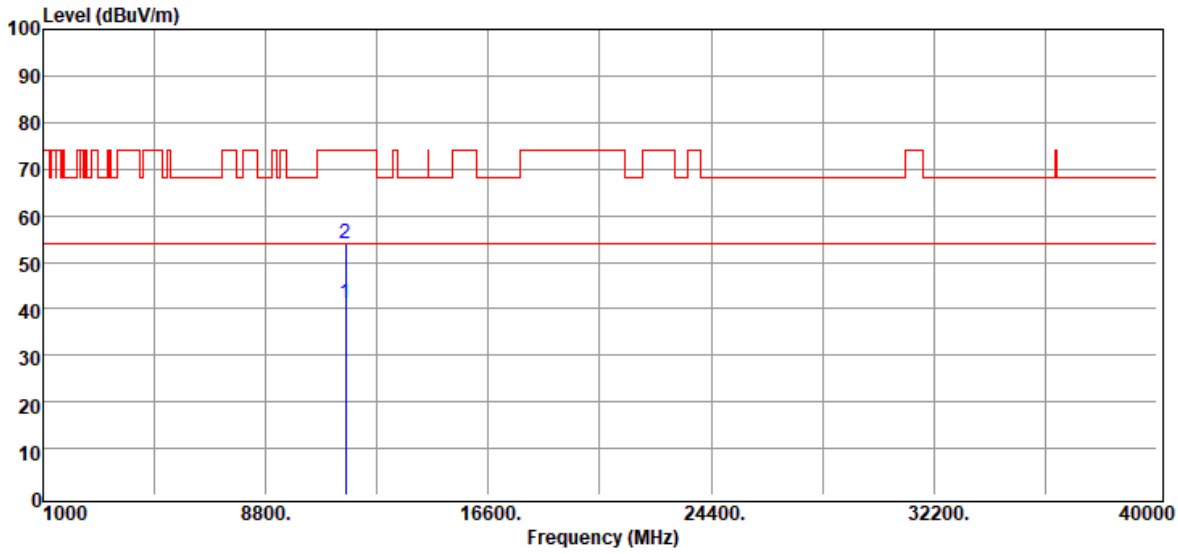
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/64
 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
11590.00	Average	28.98	12.24	41.22	54.00	-12.78
11590.00	Peak	41.64	12.24	53.88	74.00	-20.12

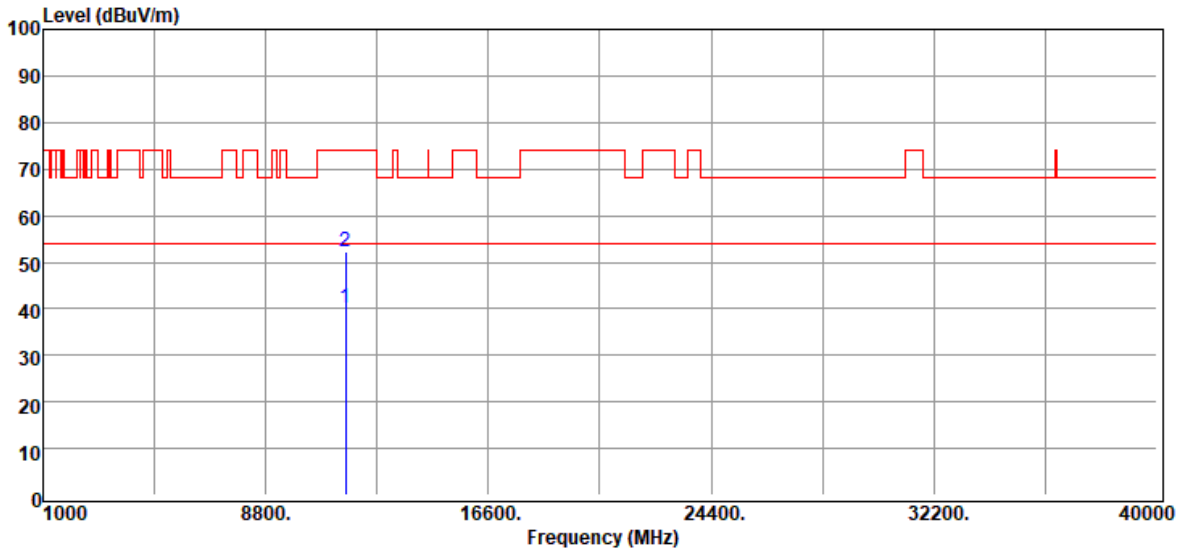
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/64
 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
11590.00	Average	28.05	12.24	40.29	54.00	-13.71
11590.00	Peak	40.09	12.24	52.33	74.00	-21.67

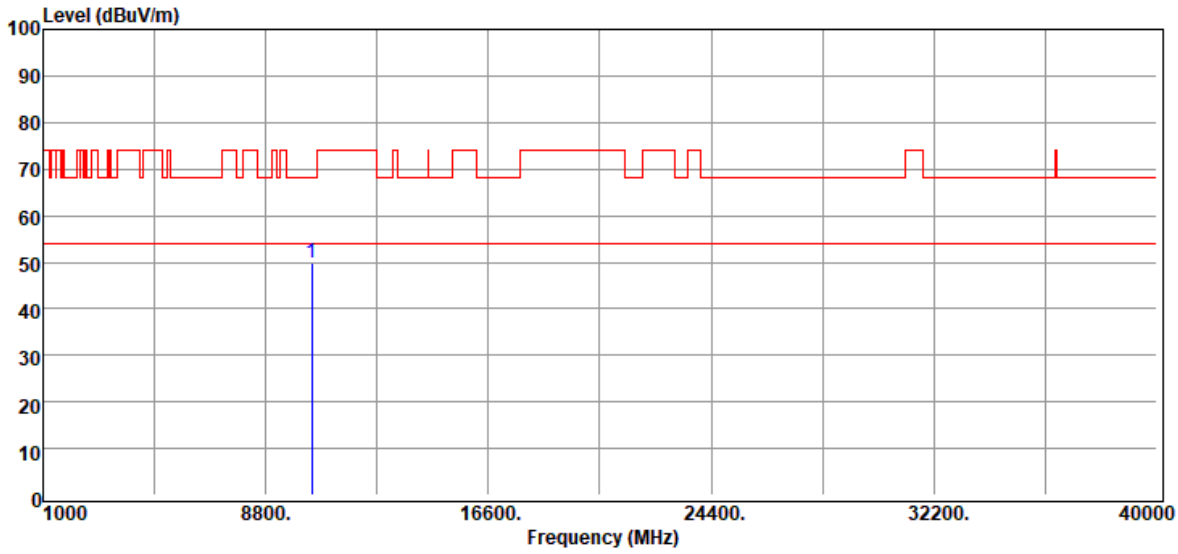
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/63
 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
10420.00	Peak	39.07	10.92	49.99	68.20	-18.21

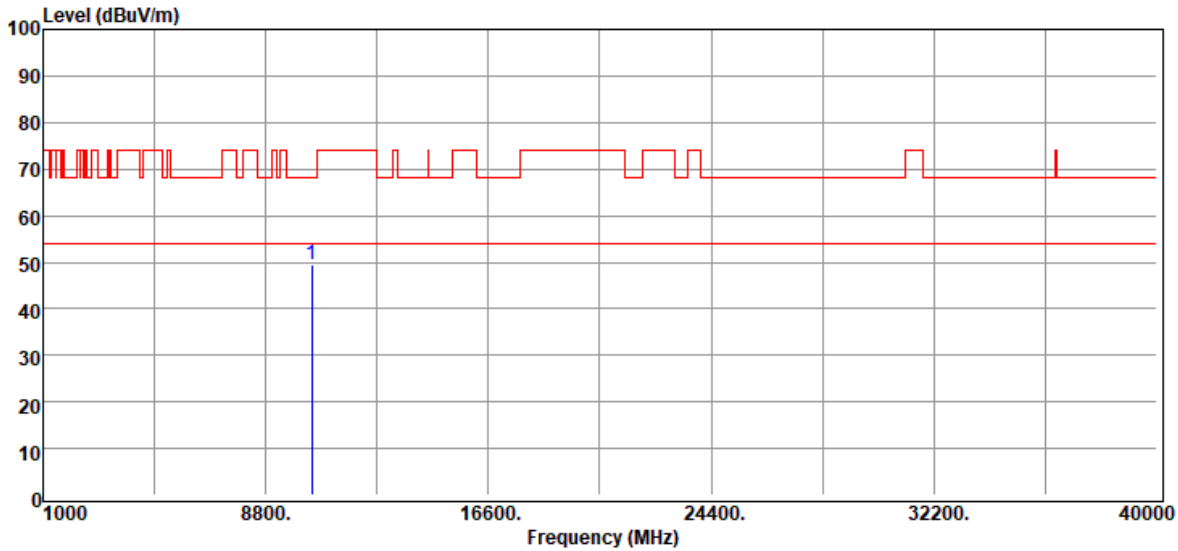
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/63
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
10420.00	Peak	38.46	10.92	49.38	68.20	-18.82

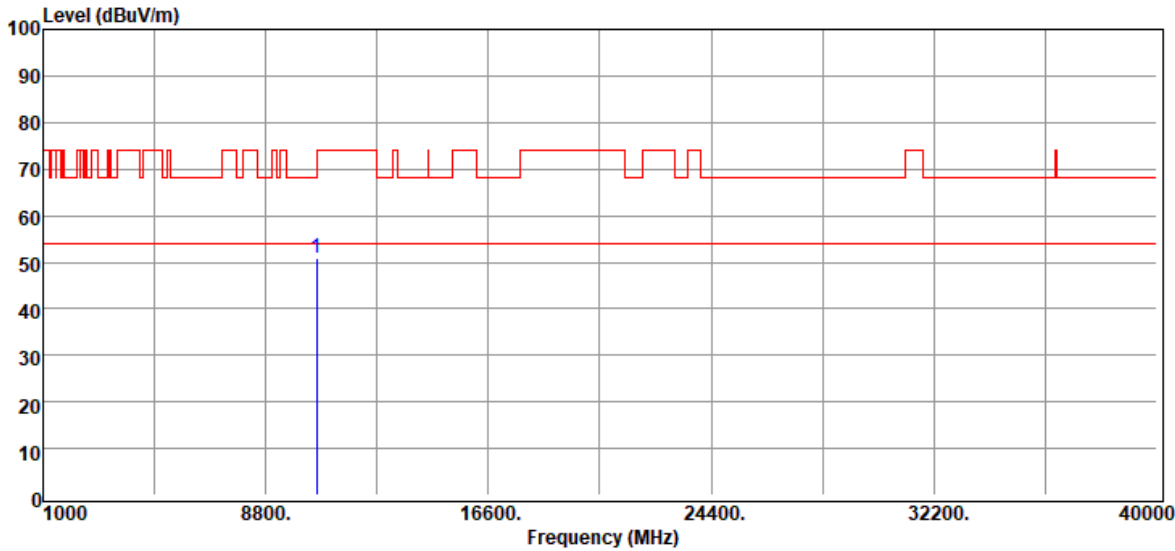
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 2
 Test Frequency :5290 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/63
 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
10580.00	Peak	39.78	11.14	50.92	68.20	-17.28

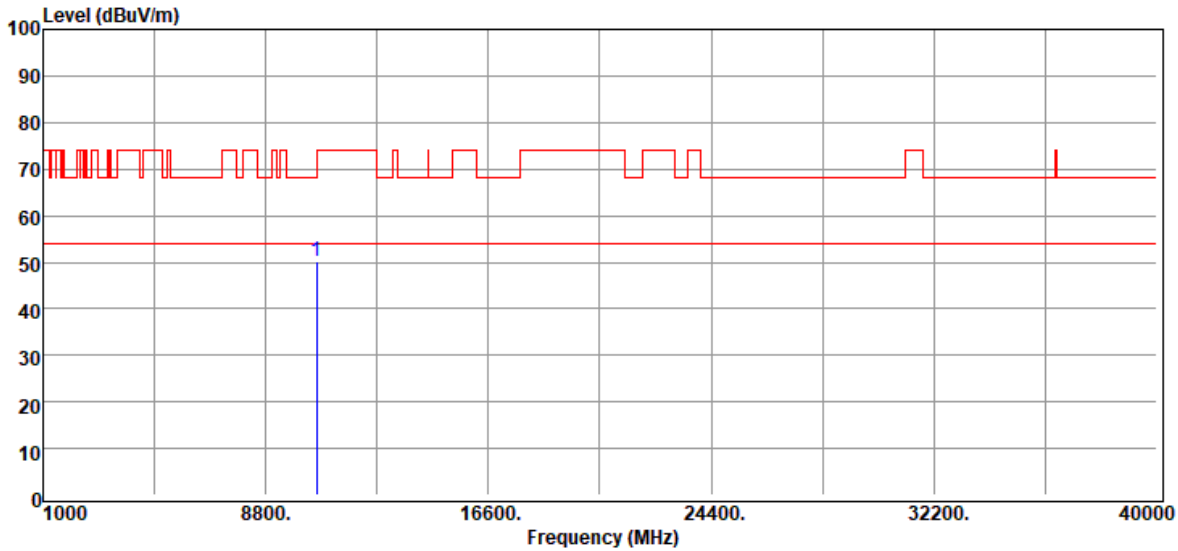
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 2
 Test Frequency :5290 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/63
 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
10580.00	Peak	39.11	11.14	50.25	68.20	-17.95

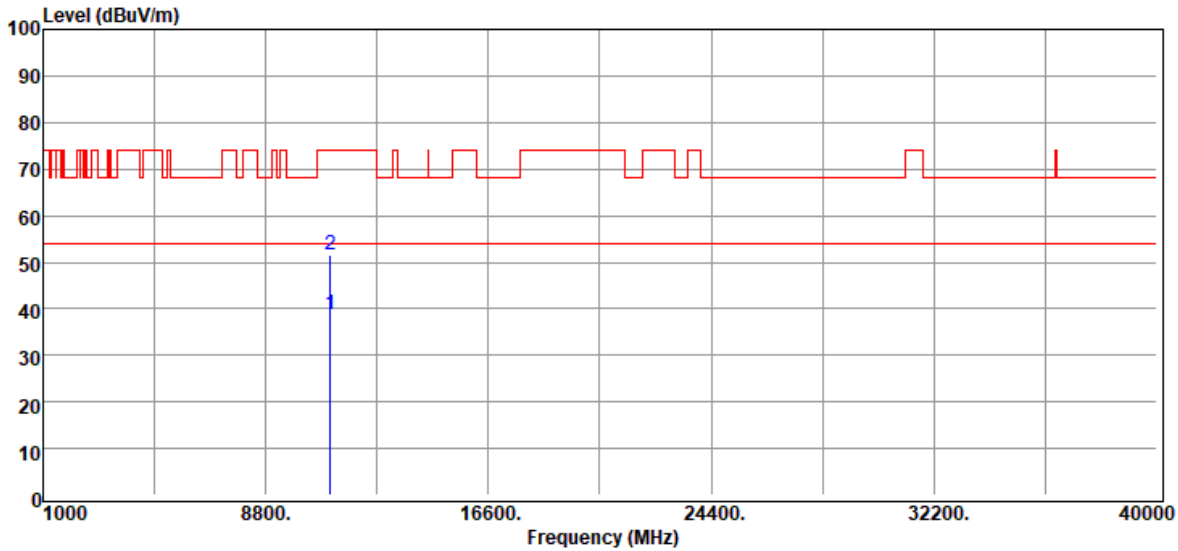
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/63
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	28.65	10.20	38.85	54.00	-15.15
11060.00	Peak	41.25	10.20	51.45	74.00	-22.55

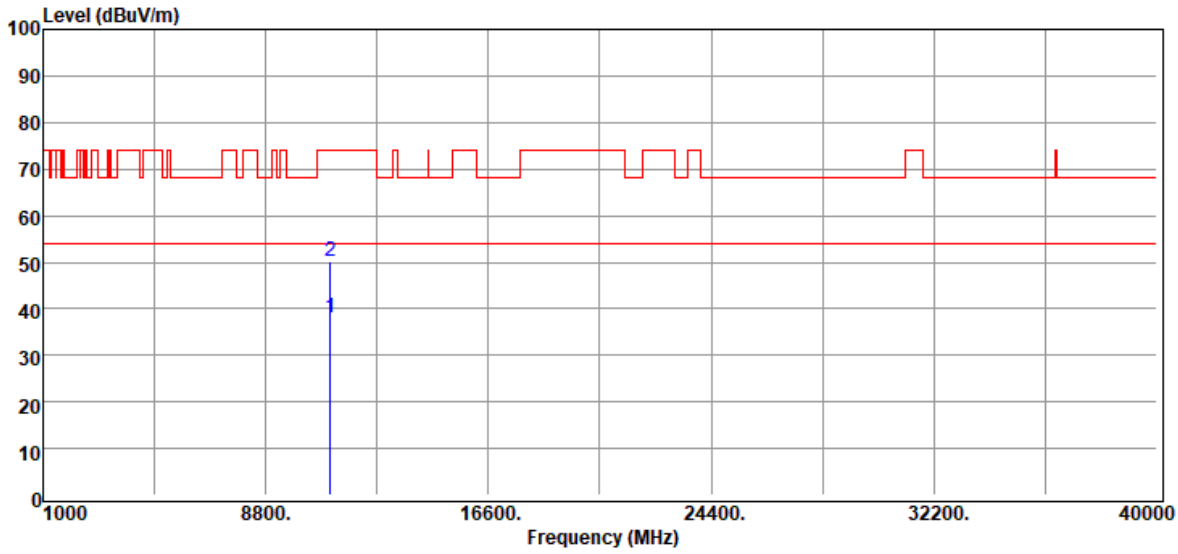
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.5/64
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
11060.00	Average	27.97	10.20	38.17	54.00	-15.83
11060.00	Peak	40.06	10.20	50.26	74.00	-23.74

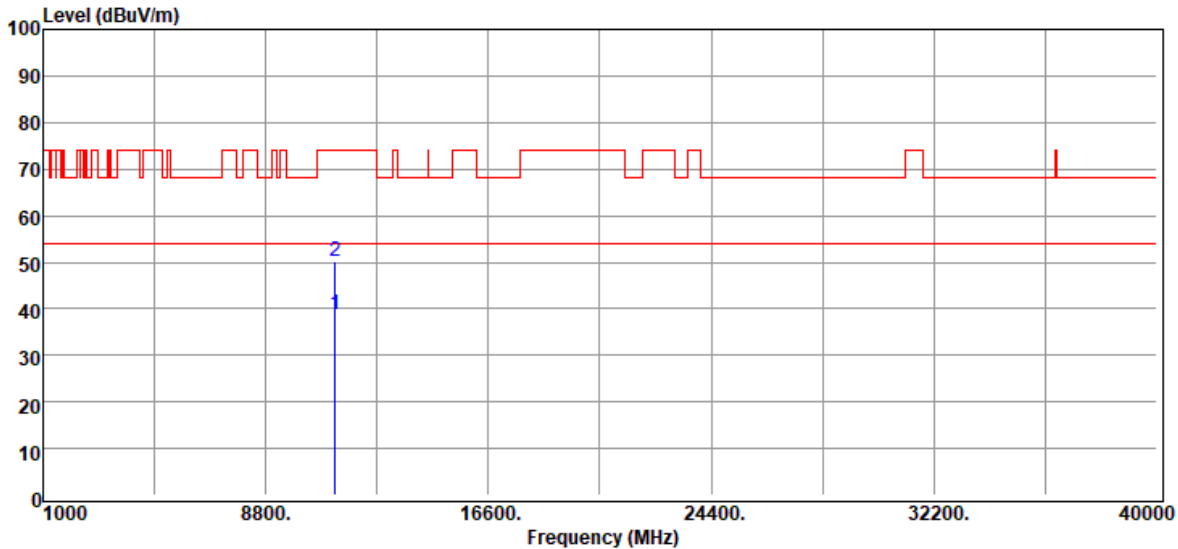
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5610 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/64
 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
11220.00	Average	28.11	10.59	38.70	54.00	-15.30
11220.00	Peak	39.74	10.59	50.33	74.00	-23.67

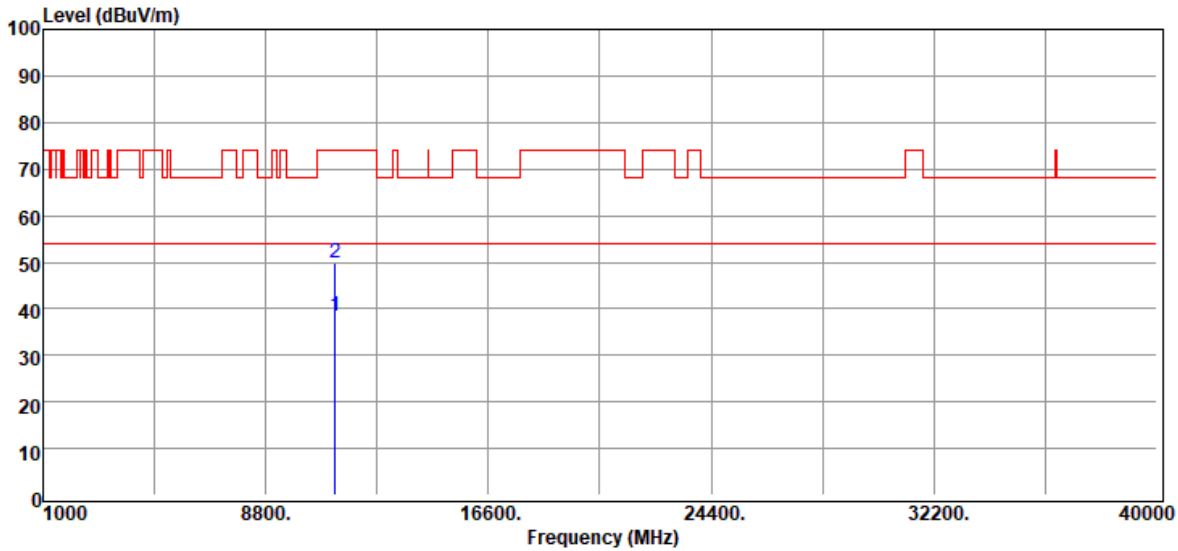
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5610 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.5/64
 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
11220.00	Average	27.89	10.59	38.48	54.00	-15.52
11220.00	Peak	39.41	10.59	50.00	74.00	-24.00

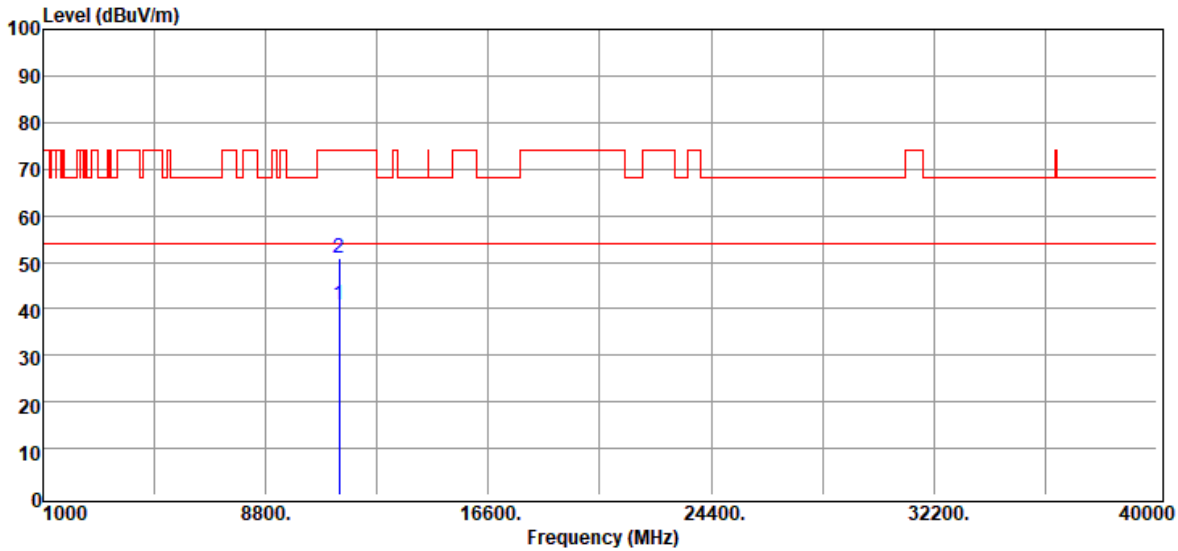
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/63
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	29.85	11.15	41.00	54.00	-13.00
11380.00	Peak	39.74	11.15	50.89	74.00	-23.11

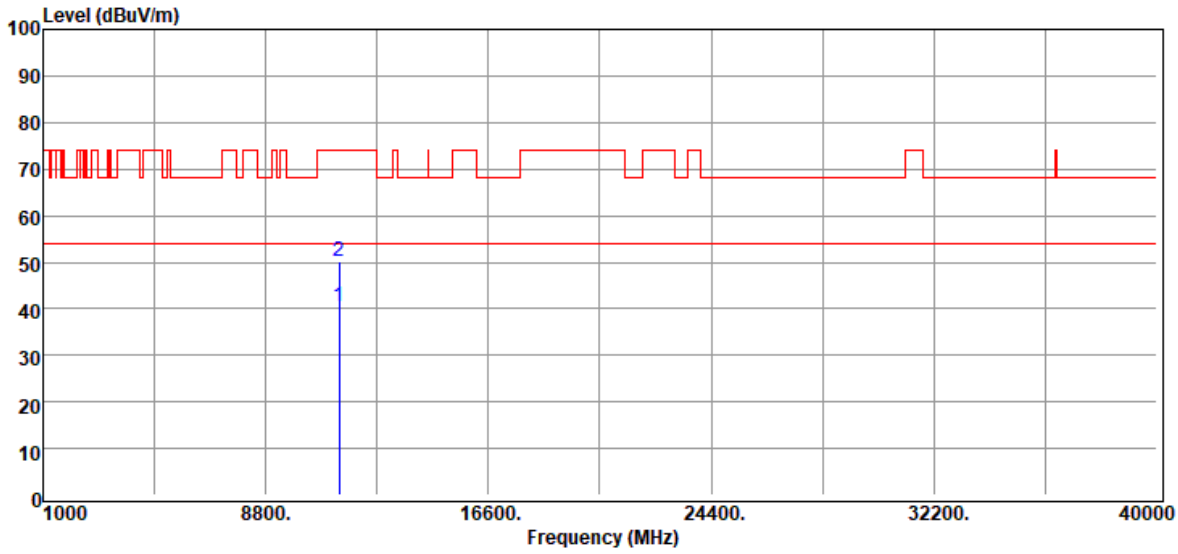
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5690 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/63
 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
11380.00	Average	29.44	11.15	40.59	54.00	-13.41
11380.00	Peak	39.01	11.15	50.16	74.00	-23.84

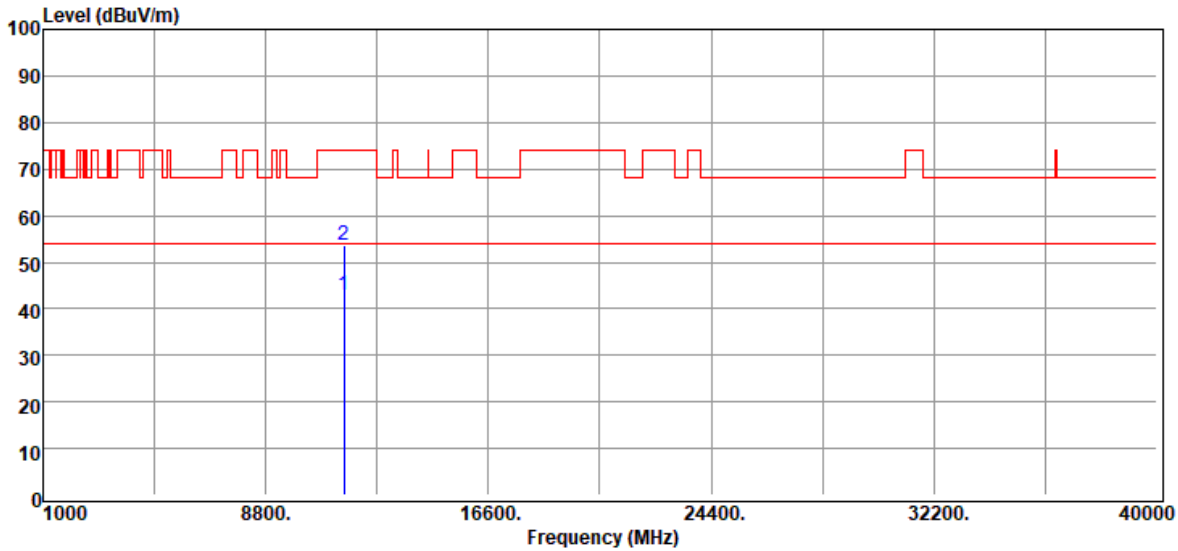
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2020-06-04
Temp./Humi. :21.4/63
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
11550.00	Average	30.46	12.51	42.97	54.00	-11.03
11550.00	Peak	40.96	12.51	53.47	74.00	-20.53

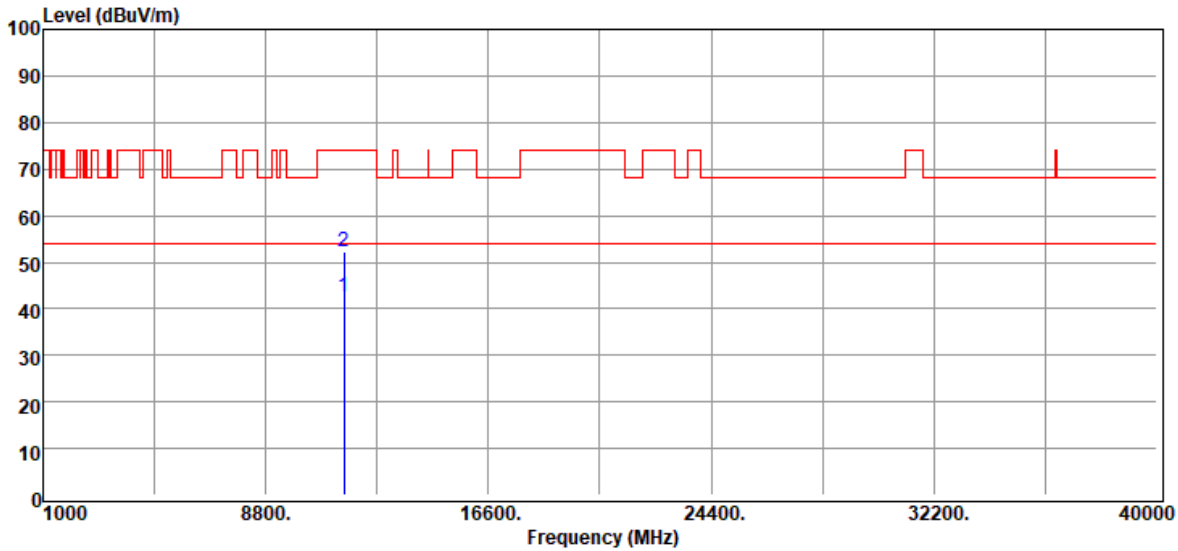
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Date :2020-06-04
 Temp./Humi. :21.4/63
 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
11550.00	Average	29.89	12.51	42.40	54.00	-11.60
11550.00	Peak	39.79	12.51	52.30	74.00	-21.70

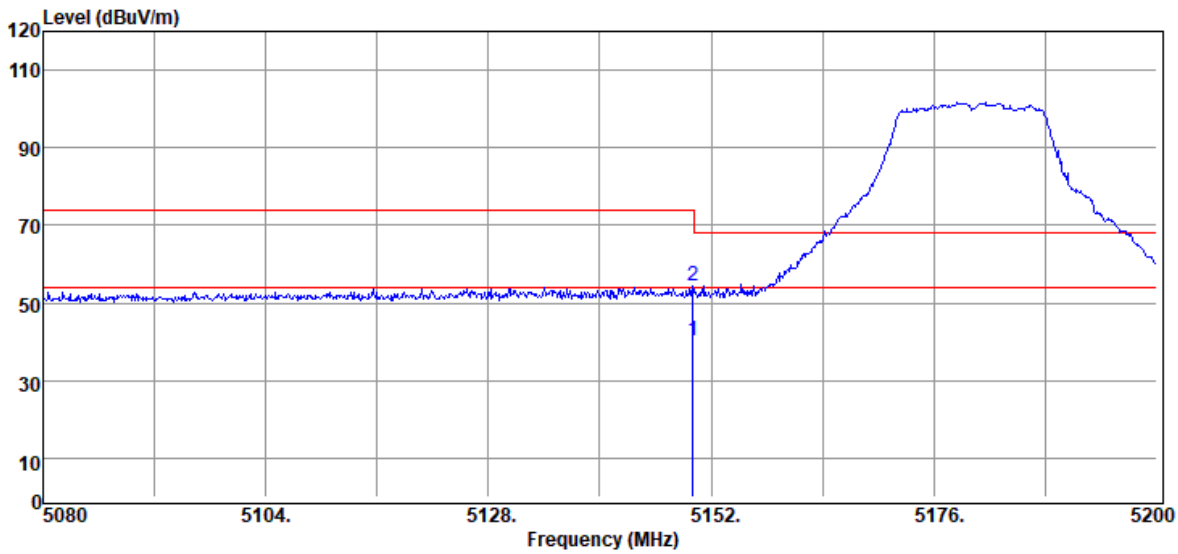
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11.7.3 Band edge falling to restricted band

Report Number	:E2/2020/50041	Test Date	:2020-06-03
Operation Mode	:802.11a / Band 1	Temp./Humi.	:22.1/72
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:BE CH LOW	Engineer	:Kailin
EUT Pol	:H Plan		



Freq. MHz	Detector Mode PK/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	39.72	0.45	40.17	54.00	-13.83
5150.00	Peak	54.03	0.45	54.48	74.00	-19.52

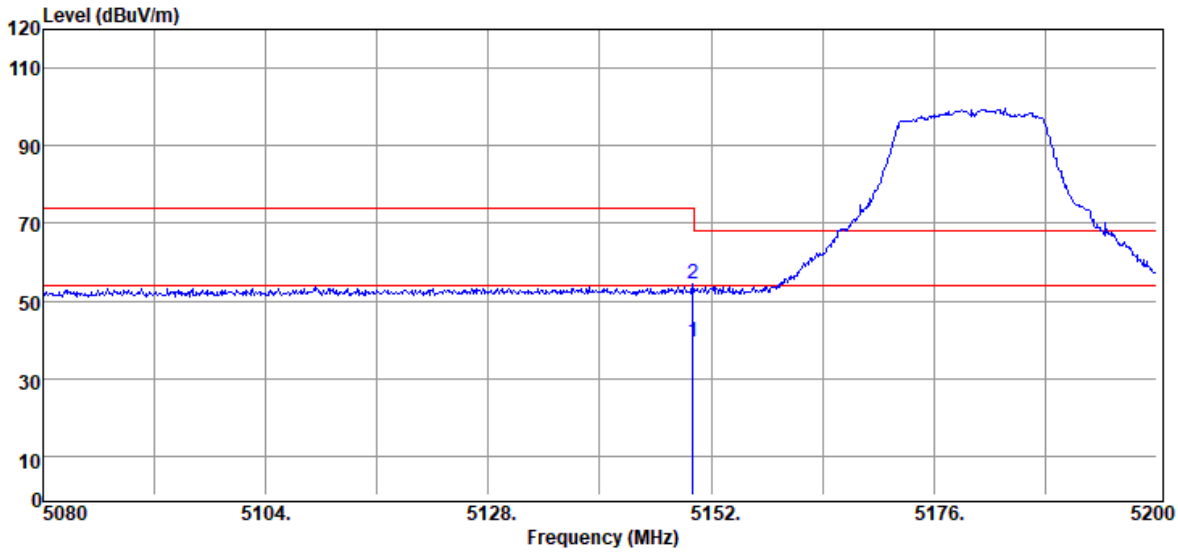
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.1/72
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
5150.00	Average	39.14	0.45	39.59	54.00	-14.41
5150.00	Peak	53.89	0.45	54.34	74.00	-19.66

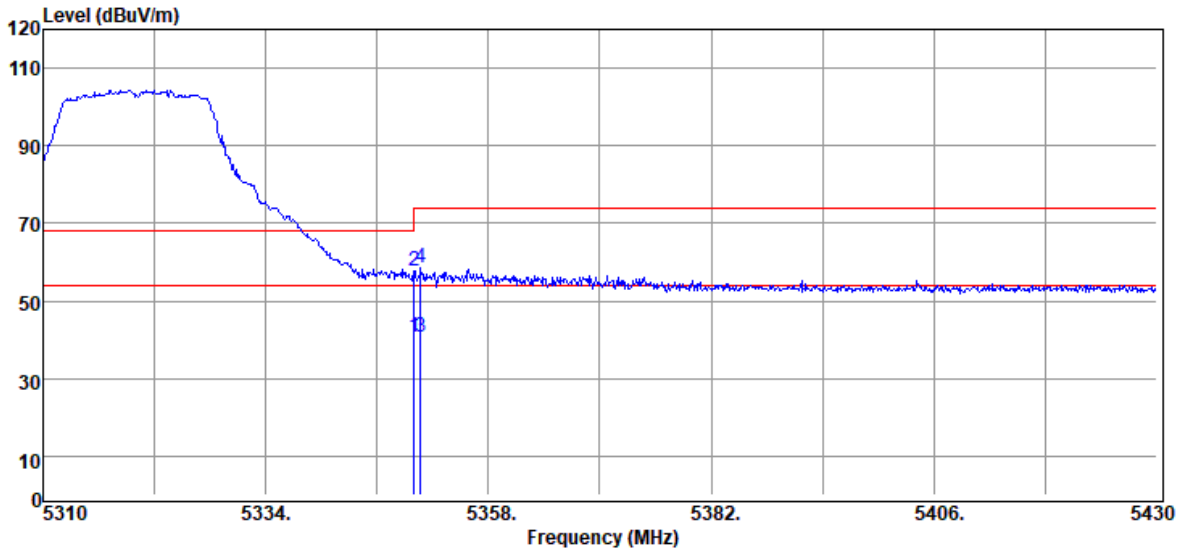
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.0/71
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	40.68	0.17	40.85	54.00	-13.15
5350.00	Peak	57.40	0.17	57.57	74.00	-16.43
5350.68	Average	40.59	0.17	40.76	54.00	-13.24
5350.68	Peak	58.19	0.17	58.36	74.00	-15.64

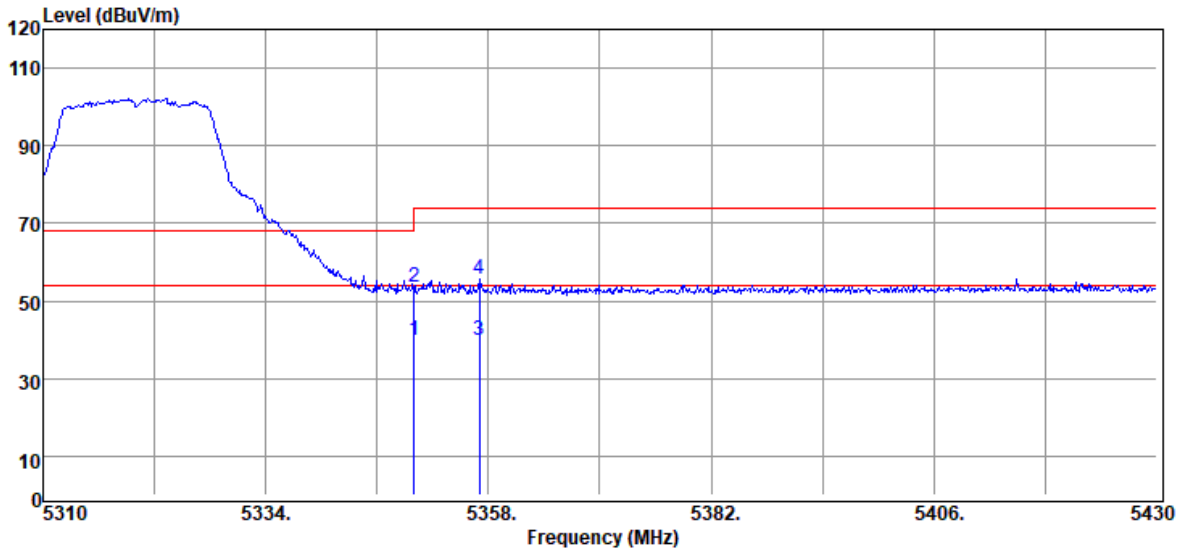
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.0/71
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	39.51	0.17	39.68	54.00	-14.32
5350.00	Peak	53.53	0.17	53.70	74.00	-20.30
5357.04	Average	39.57	0.25	39.82	54.00	-14.18
5357.04	Peak	55.44	0.25	55.69	74.00	-18.31

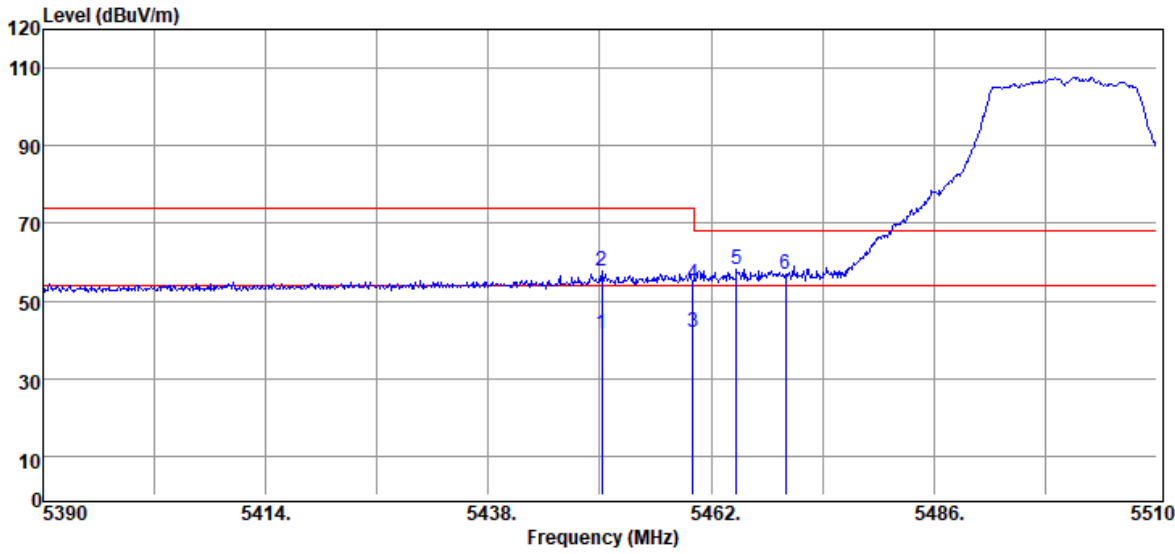
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.0/71
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
5450.24	Average	40.18	1.22	41.40	54.00	-12.60
5450.24	Peak	56.56	1.22	57.78	74.00	-16.22
5460.00	Average	40.69	1.28	41.97	54.00	-12.03
5460.00	Peak	53.27	1.28	54.55	74.00	-19.45
5464.76	Peak	56.76	1.32	58.08	68.20	-10.12
5470.00	Peak	55.47	1.36	56.83	68.20	-11.37

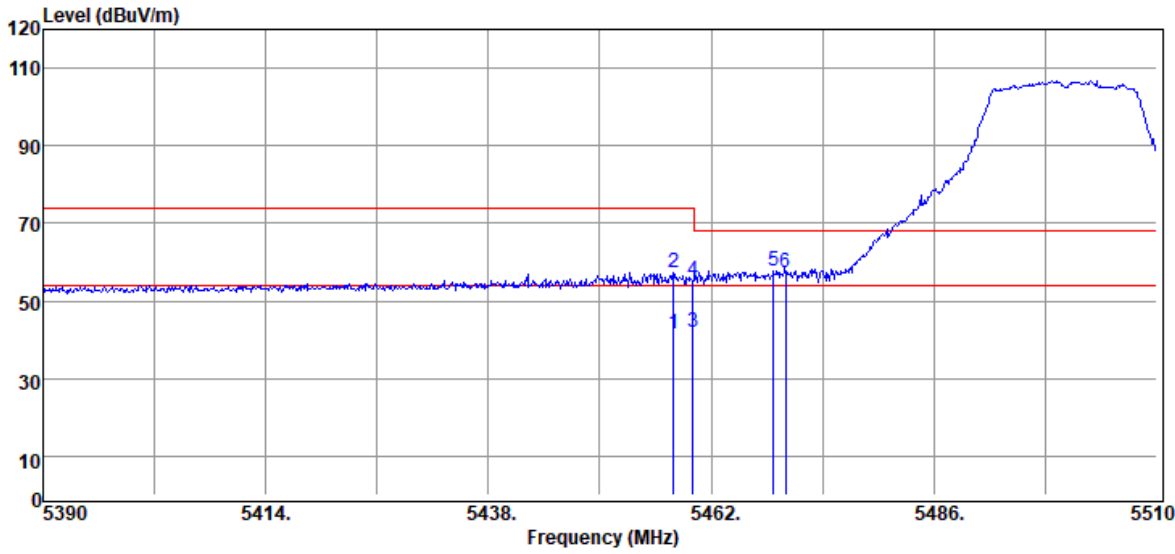
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :22.0/71
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
5457.92	Average	40.44	1.28	41.72	54.00	-12.28
5457.92	Peak	56.08	1.28	57.36	74.00	-16.64
5460.00	Average	40.49	1.28	41.77	54.00	-12.23
5460.00	Peak	53.97	1.28	55.25	74.00	-18.75
5468.72	Peak	56.55	1.34	57.89	68.20	-10.31
5470.00	Peak	55.94	1.36	57.30	68.20	-10.90

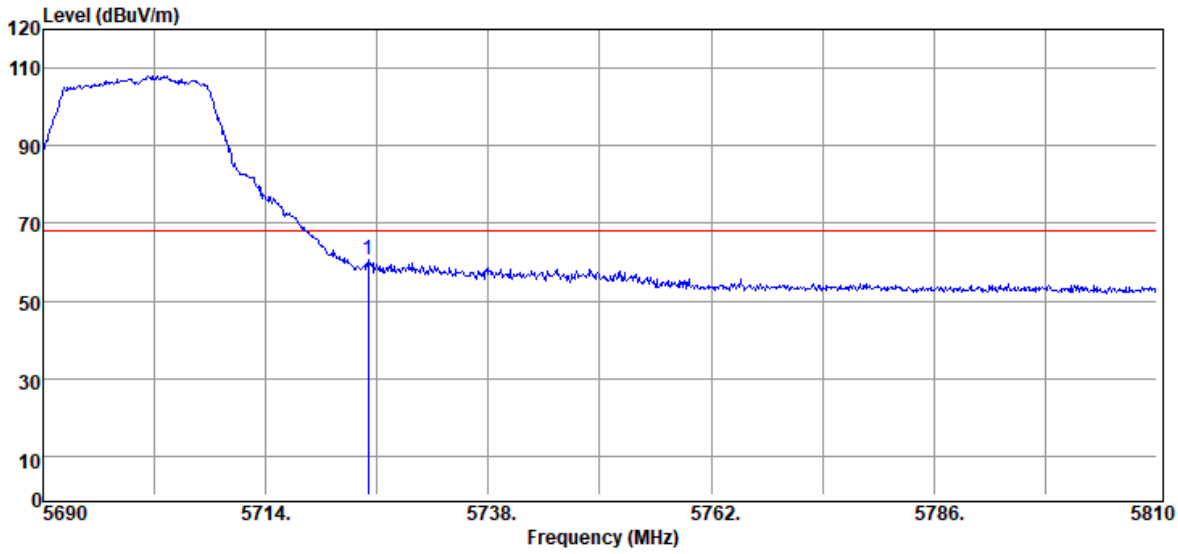
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/70
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	59.73	0.98	60.71	68.20	-7.49

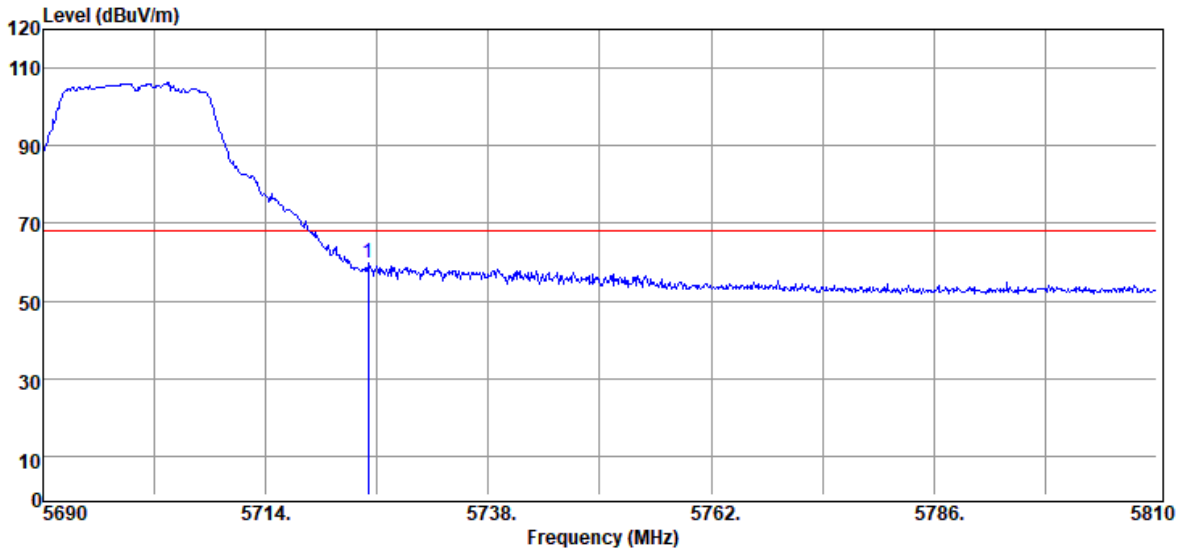
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/70
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
5725.00	Peak	58.66	0.98	59.64	68.20	-8.56

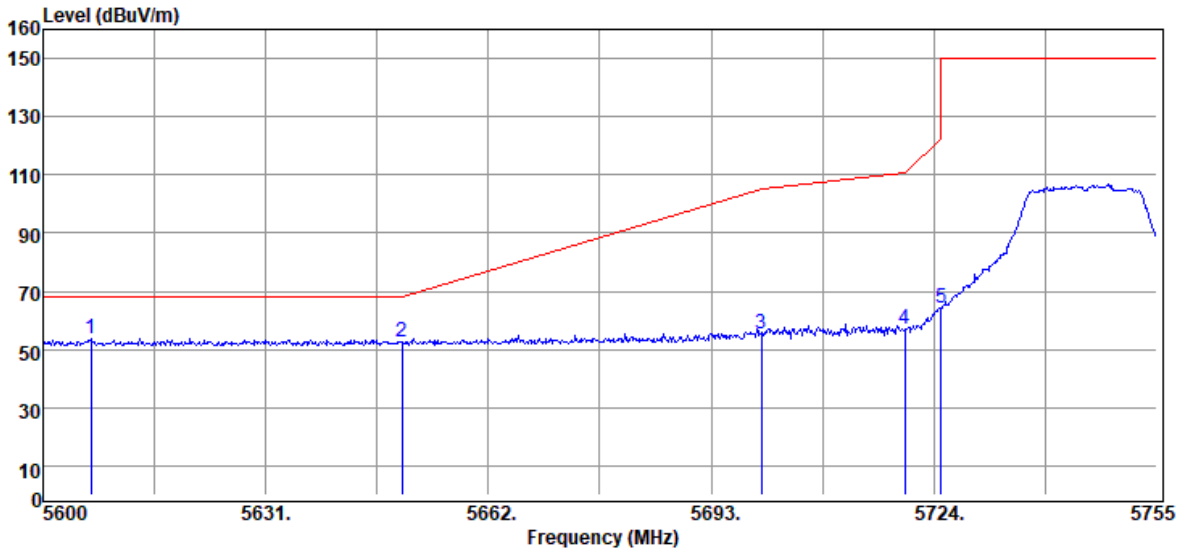
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/70
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
5606.67	Peak	53.31	0.59	53.90	68.20	-14.30
5650.00	Peak	51.91	0.69	52.60	68.20	-15.60
5700.00	Peak	54.24	1.00	55.24	105.20	-49.96
5720.00	Peak	56.30	0.99	57.29	110.80	-53.51
5725.00	Peak	63.36	0.98	64.34	122.20	-57.86

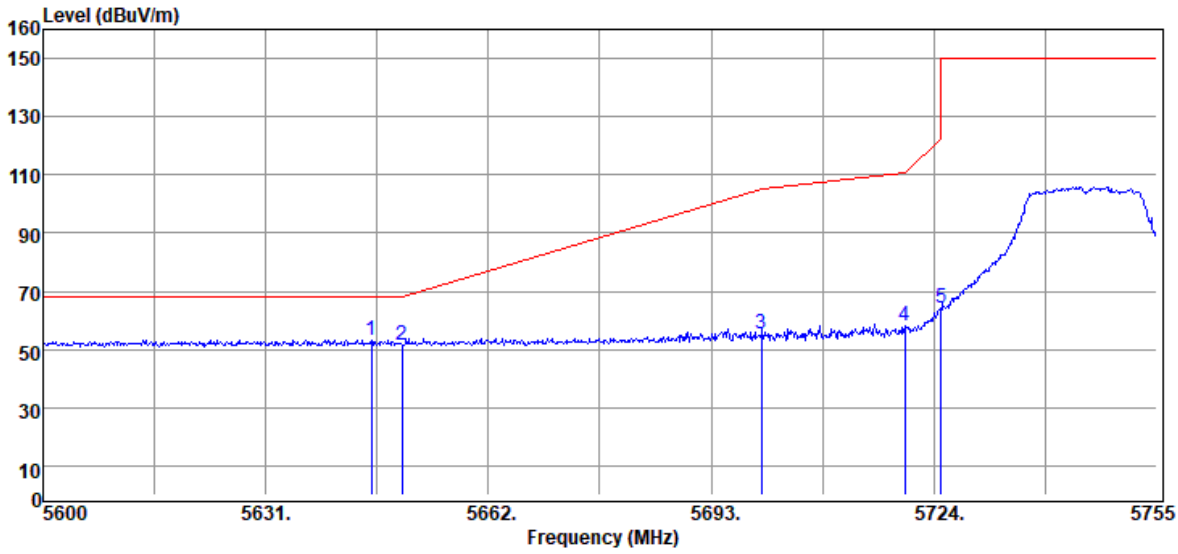
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/70
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
5645.73	Peak	52.72	0.68	53.40	68.20	-14.80
5650.00	Peak	51.04	0.69	51.73	68.20	-16.47
5700.00	Peak	54.17	1.00	55.17	105.20	-50.03
5720.00	Peak	57.10	0.99	58.09	110.80	-52.71
5725.00	Peak	63.14	0.98	64.12	122.20	-58.08

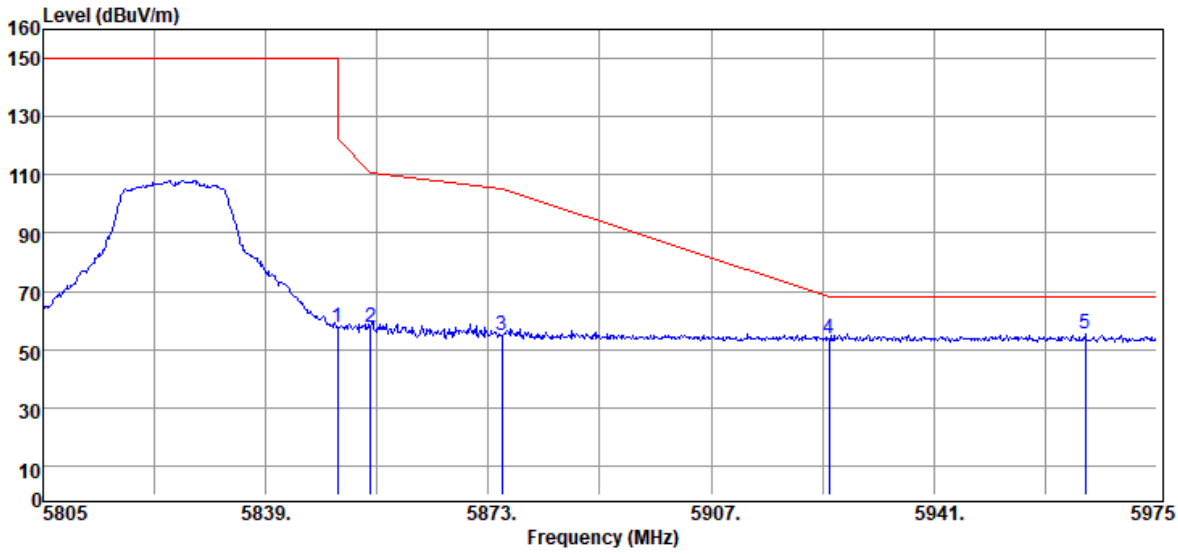
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/70
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
5850.00	Peak	56.29	1.13	57.42	122.20	-64.78
5855.00	Peak	56.28	1.16	57.44	110.80	-53.36
5875.00	Peak	53.35	1.31	54.66	105.20	-50.54
5925.00	Peak	52.10	1.37	53.47	68.20	-14.73
5964.12	Peak	54.01	1.15	55.16	68.20	-13.04

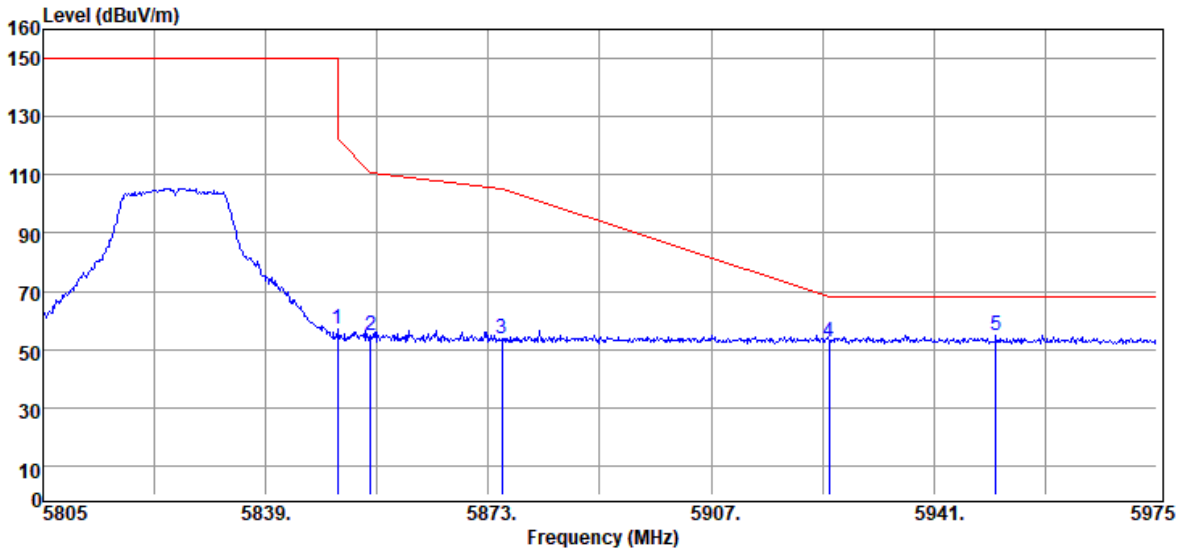
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Report Number :E2/2020/50041
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/70
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
5850.00	Peak	56.13	1.13	57.26	122.20	-64.94
5855.00	Peak	53.41	1.16	54.57	110.80	-56.23
5875.00	Peak	52.62	1.31	53.93	105.20	-51.27
5925.00	Peak	51.25	1.37	52.62	68.20	-15.58
5950.52	Peak	53.55	1.24	54.79	68.20	-13.41

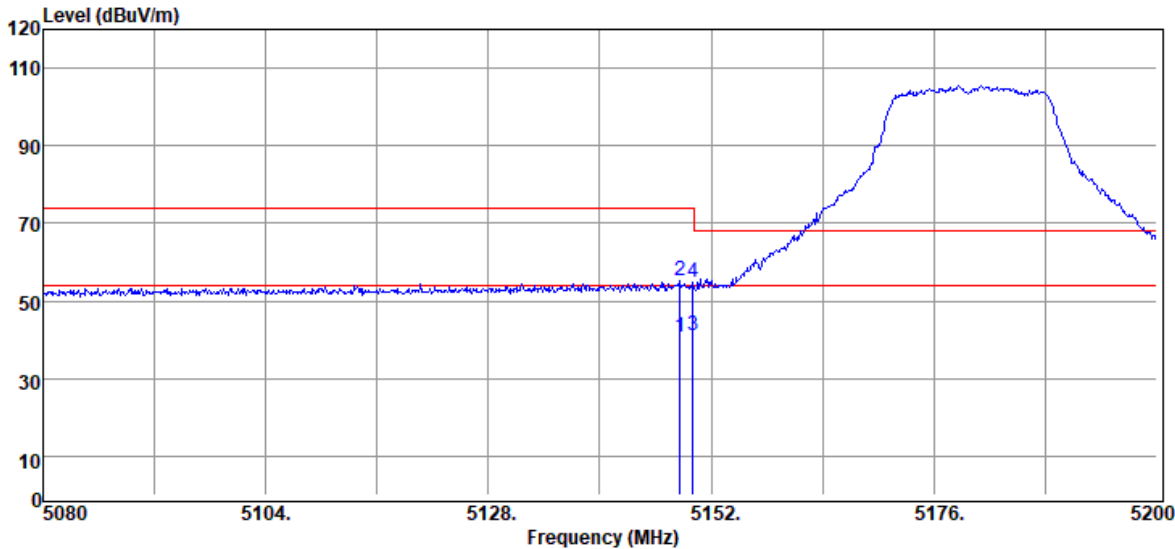
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/69
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
5148.64	Average	40.42	0.44	40.86	54.00	-13.14
5148.64	Peak	54.89	0.44	55.33	74.00	-18.67
5150.00	Average	40.50	0.45	40.95	54.00	-13.05
5150.00	Peak	54.46	0.45	54.91	74.00	-19.09

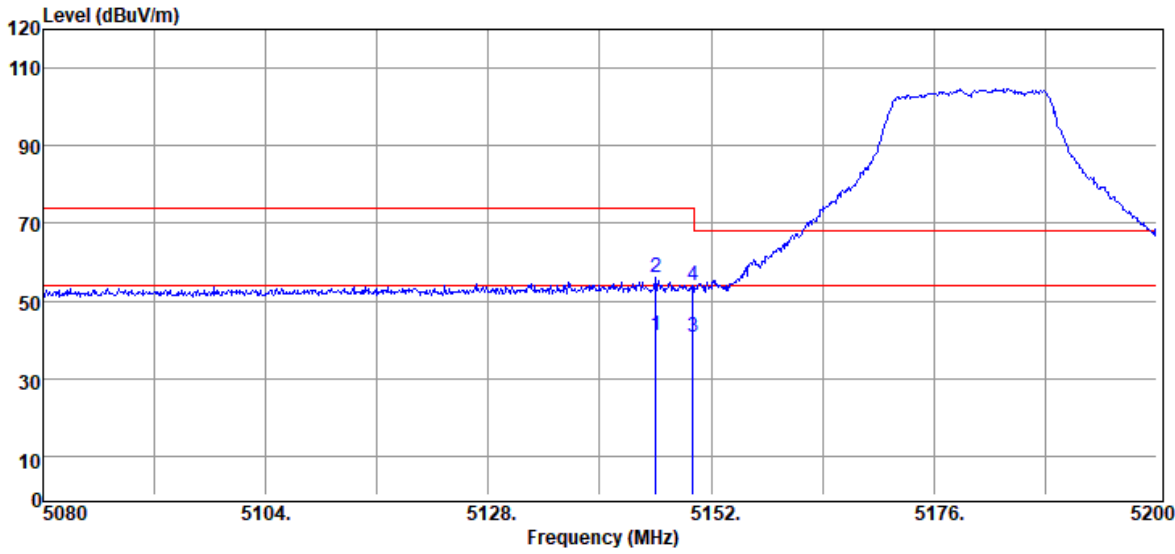
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/69
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
5146.00	Average	40.49	0.42	40.91	54.00	-13.09
5146.00	Peak	55.47	0.42	55.89	74.00	-18.11
5150.00	Average	40.37	0.45	40.82	54.00	-13.18
5150.00	Peak	53.74	0.45	54.19	74.00	-19.81

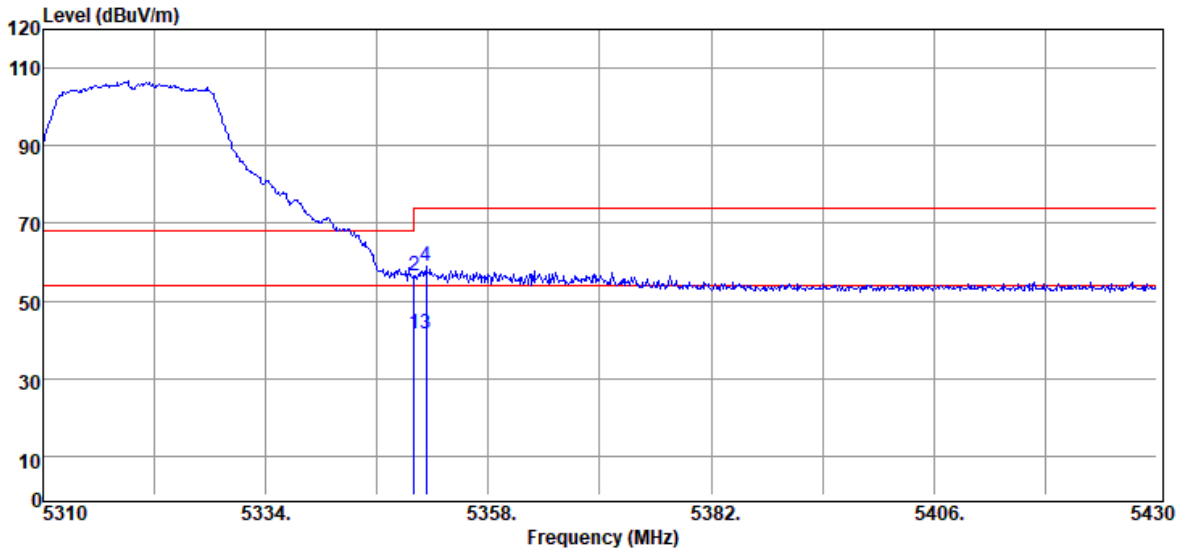
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/69
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	41.47	0.17	41.64	54.00	-12.36
5350.00	Peak	56.47	0.17	56.64	74.00	-17.36
5351.28	Average	41.32	0.18	41.50	54.00	-12.50
5351.28	Peak	58.82	0.18	59.00	74.00	-15.00

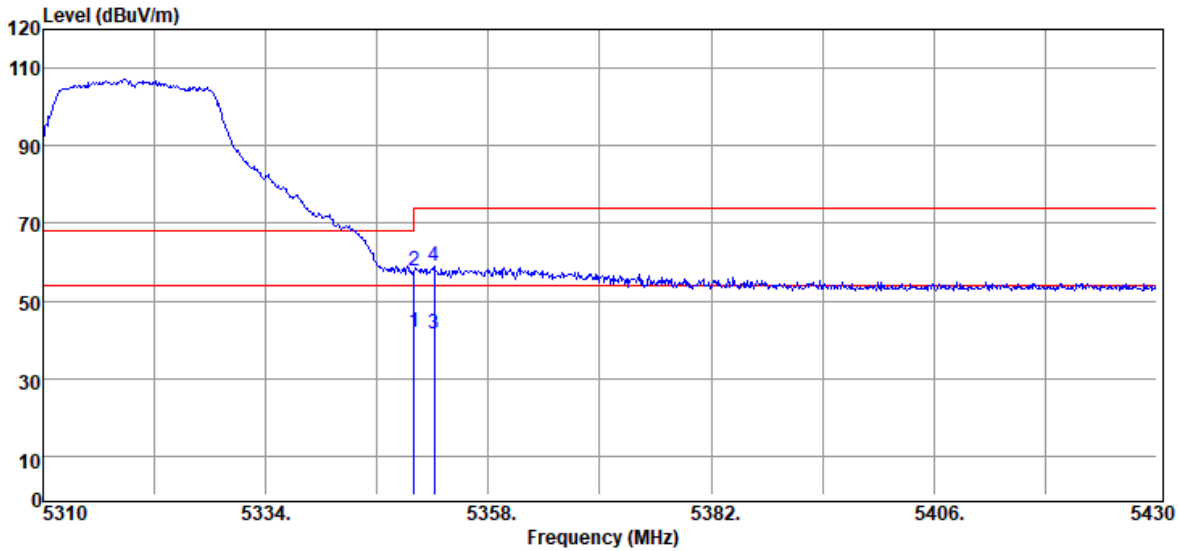
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/69
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	41.63	0.17	41.80	54.00	-12.20
5350.00	Peak	57.62	0.17	57.79	74.00	-16.21
5352.12	Average	41.53	0.19	41.72	54.00	-12.28
5352.12	Peak	58.69	0.19	58.88	74.00	-15.12

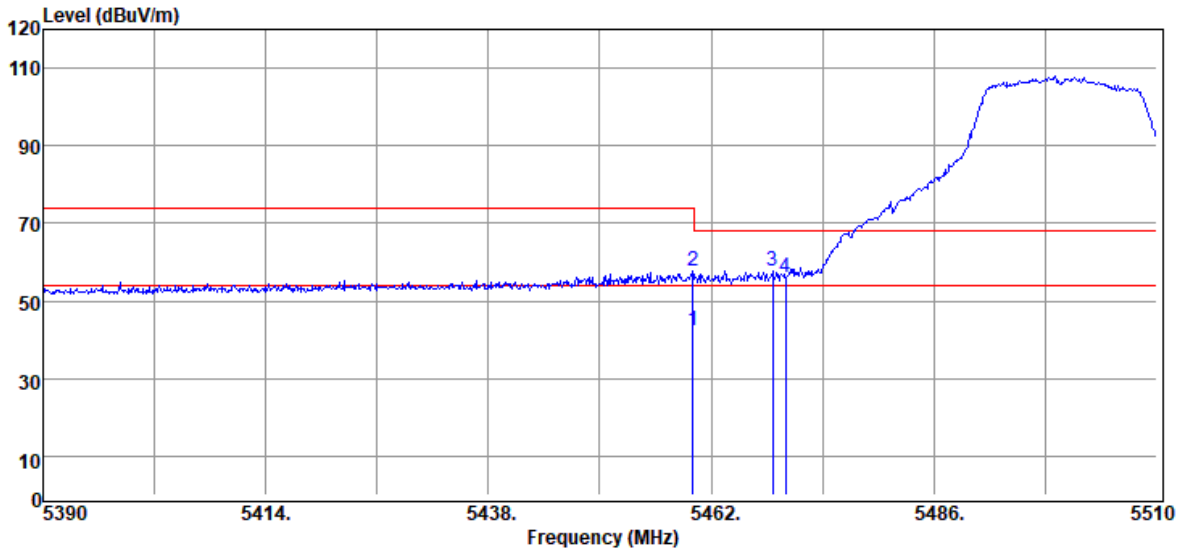
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/69
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	40.94	1.28	42.22	54.00	-11.78
5460.00	Peak	56.47	1.28	57.75	74.00	-16.25
5468.60	Peak	56.27	1.34	57.61	68.20	-10.59
5470.00	Peak	54.87	1.36	56.23	68.20	-11.97

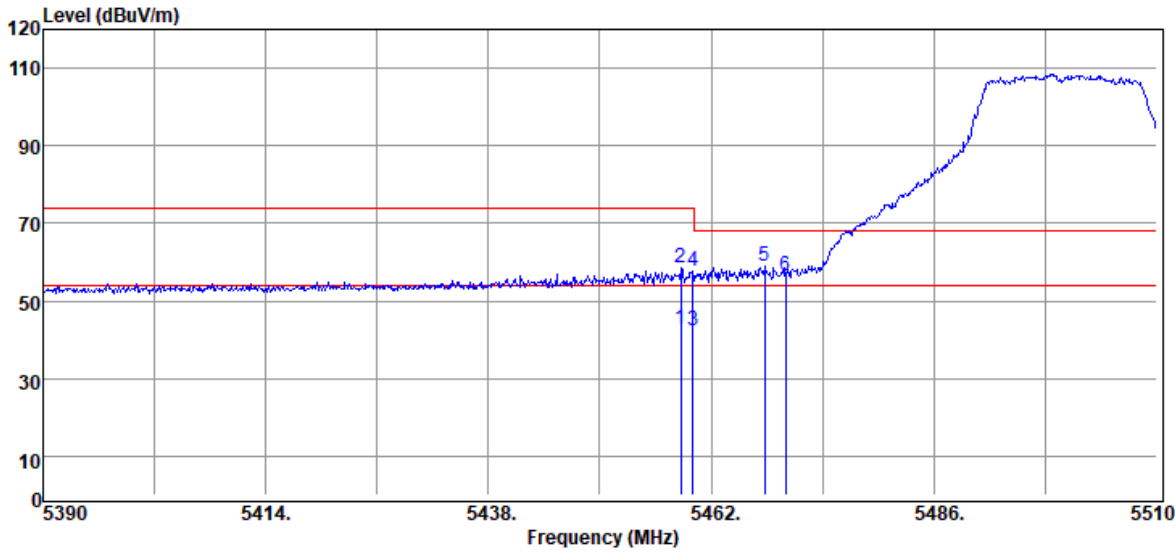
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/69
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
5458.76	Average	41.32	1.28	42.60	54.00	-11.40
5458.76	Peak	57.10	1.28	58.38	74.00	-15.62
5460.00	Average	41.26	1.28	42.54	54.00	-11.46
5460.00	Peak	56.25	1.28	57.53	74.00	-16.47
5467.76	Peak	57.75	1.34	59.09	68.20	-9.11
5470.00	Peak	55.27	1.36	56.63	68.20	-11.57

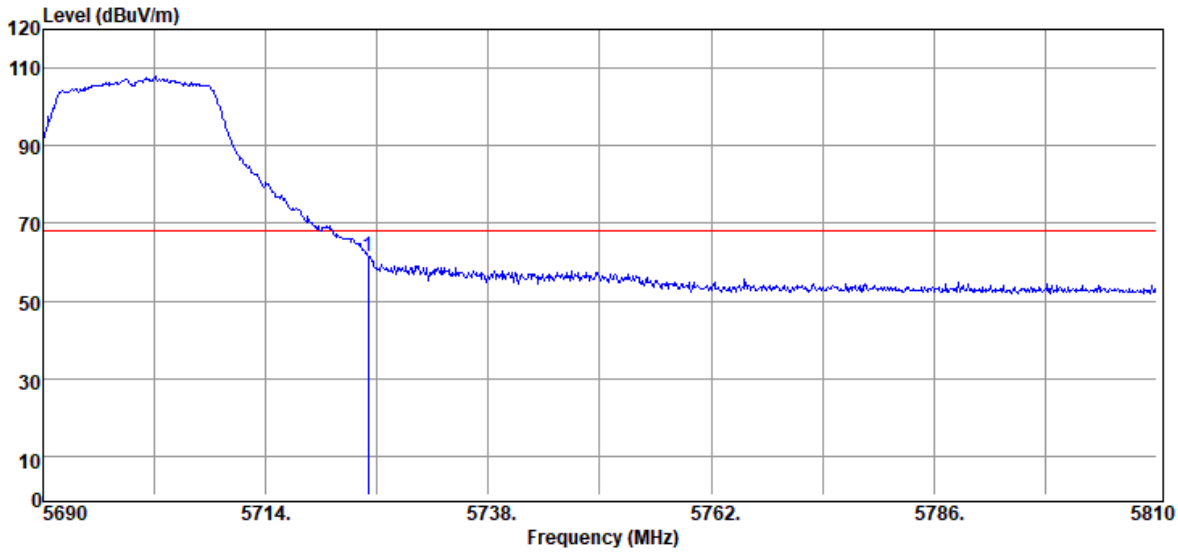
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Report Number :E2/2020/50041
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-03
 Temp./Humi. :21.9/68
 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	60.60	0.98	61.58	68.20	-6.62

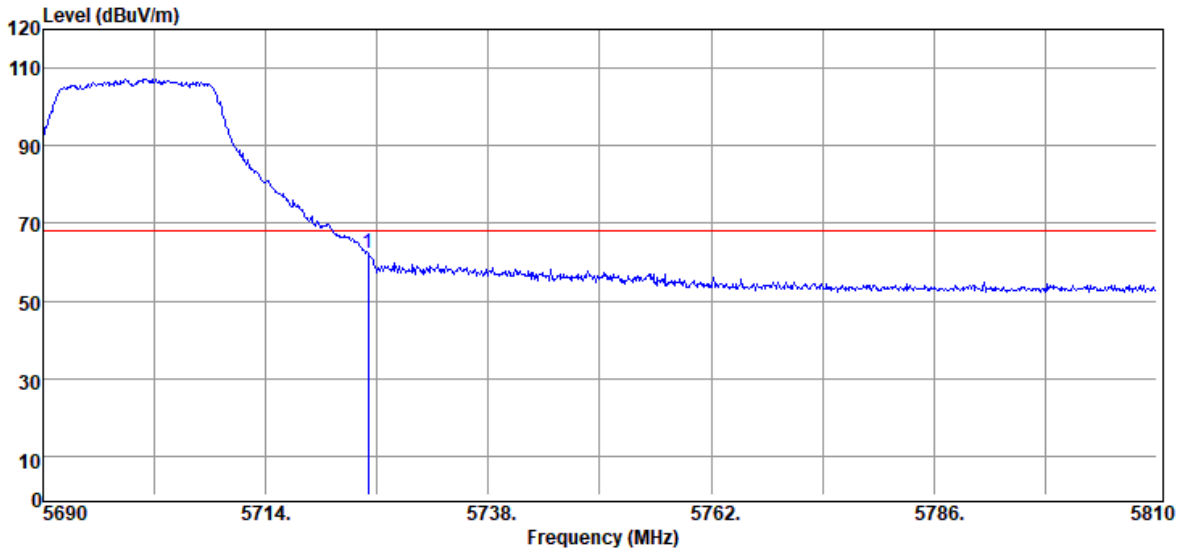
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/68
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
5725.00	Peak	61.19	0.98	62.17	68.20	-6.03

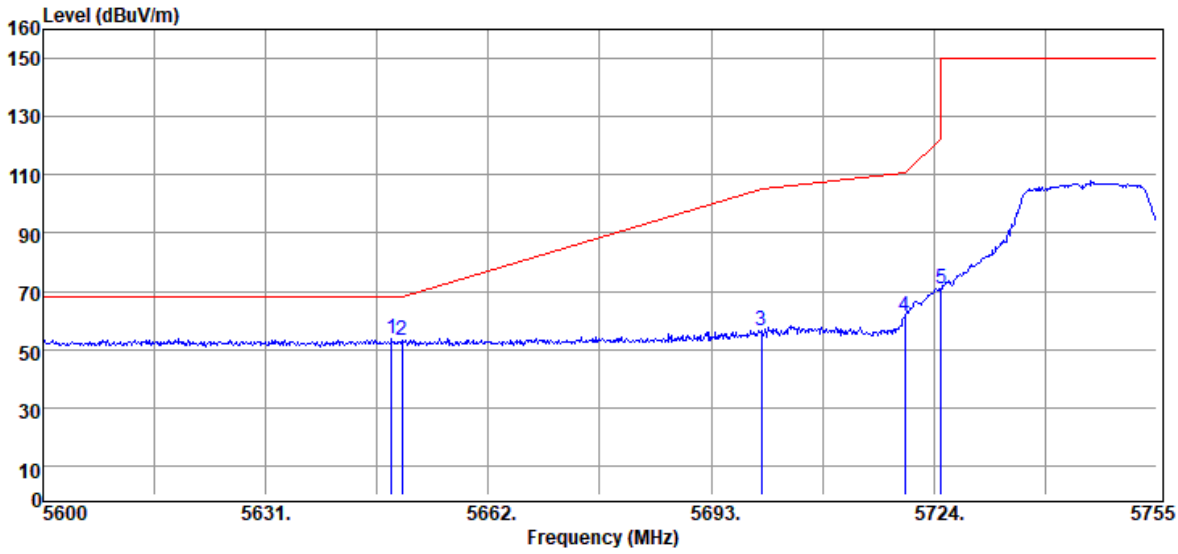
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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
5648.52	Peak	52.95	0.69	53.64	68.20	-14.56
5650.00	Peak	52.53	0.69	53.22	68.20	-14.98
5700.00	Peak	55.44	1.00	56.44	105.20	-48.76
5720.00	Peak	60.34	0.99	61.33	110.80	-49.47
5725.00	Peak	69.80	0.98	70.78	122.20	-51.42

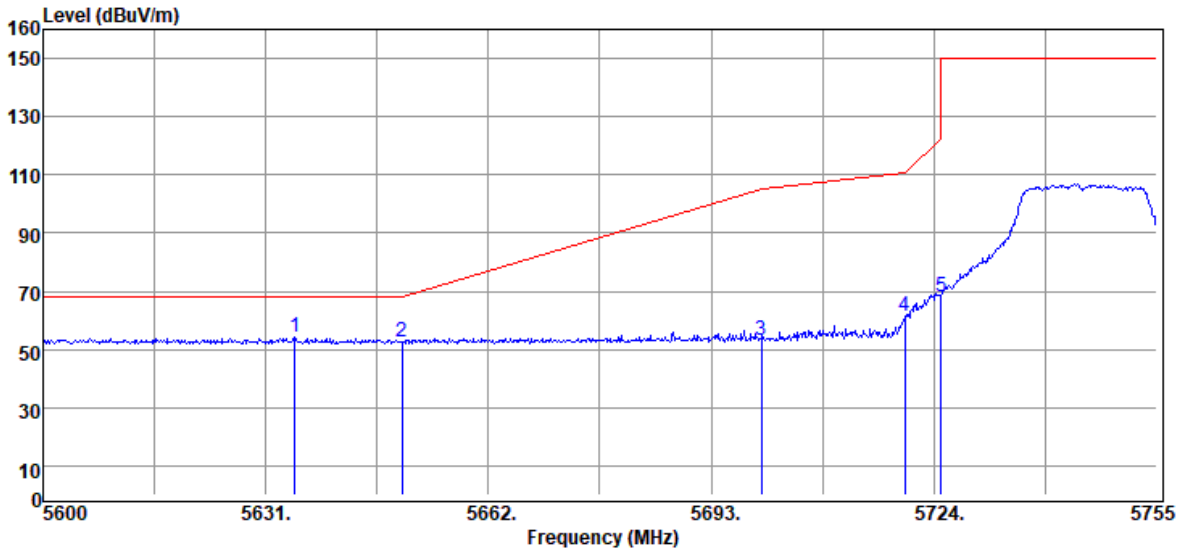
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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
5635.03	Peak	53.34	0.66	54.00	68.20	-14.20
5650.00	Peak	51.93	0.69	52.62	68.20	-15.58
5700.00	Peak	52.03	1.00	53.03	105.20	-52.17
5720.00	Peak	60.20	0.99	61.19	110.80	-49.61
5725.00	Peak	67.25	0.98	68.23	122.20	-53.97

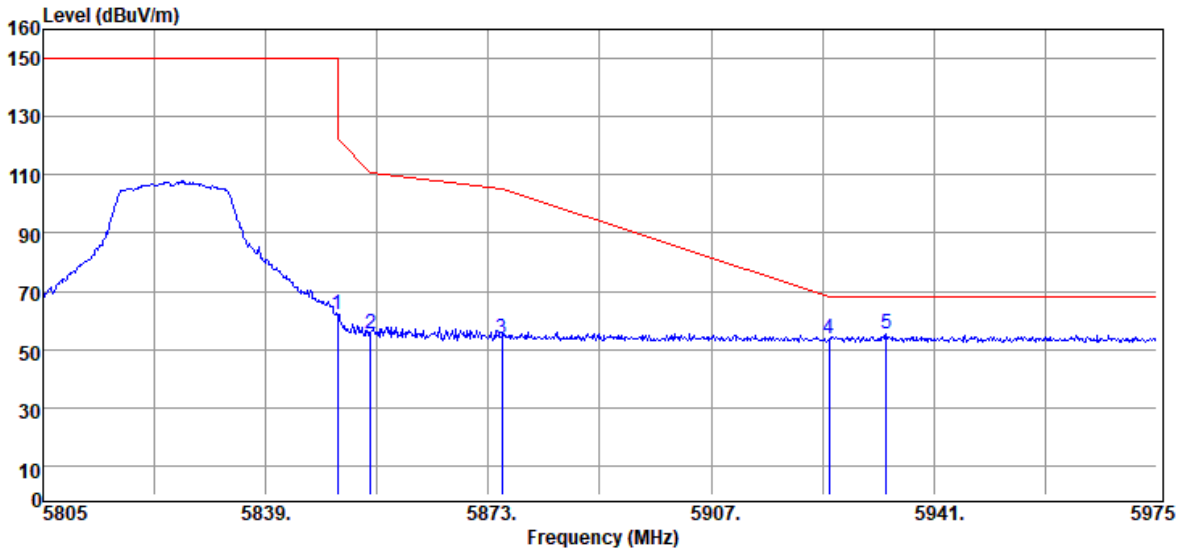
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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
5850.00	Peak	60.68	1.13	61.81	122.20	-60.39
5855.00	Peak	54.15	1.16	55.31	110.80	-55.49
5875.00	Peak	52.62	1.31	53.93	105.20	-51.27
5925.00	Peak	52.20	1.37	53.57	68.20	-14.63
5933.69	Peak	53.77	1.33	55.10	68.20	-13.10

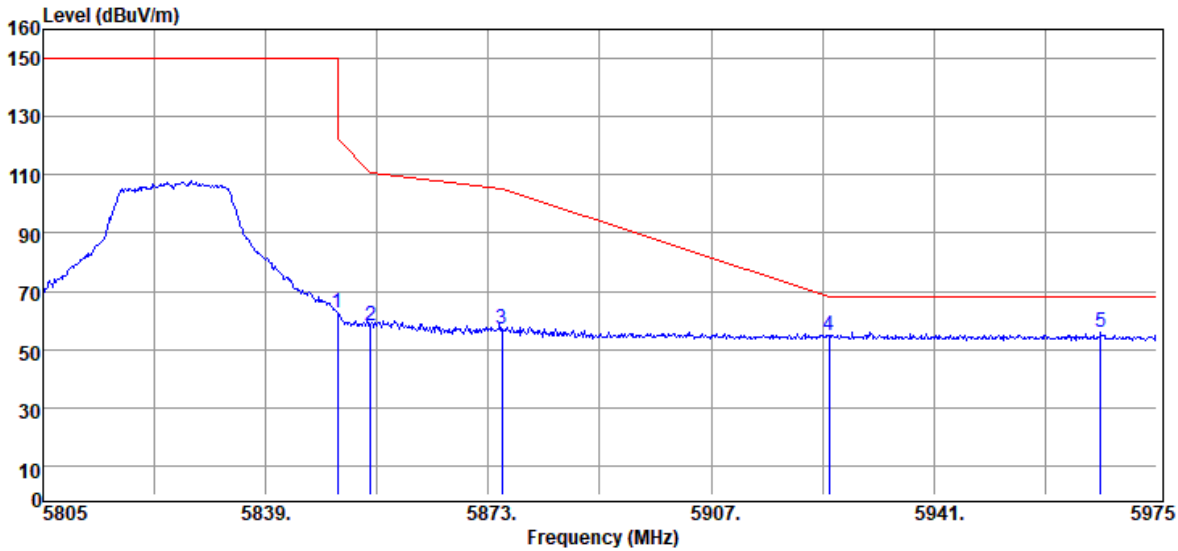
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Report Number :E2/2020/50041
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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
5850.00	Peak	61.62	1.13	62.75	122.20	-59.45
5855.00	Peak	57.16	1.16	58.32	110.80	-52.48
5875.00	Peak	55.92	1.31	57.23	105.20	-47.97
5925.00	Peak	53.18	1.37	54.55	68.20	-13.65
5966.50	Peak	54.86	1.13	55.99	68.20	-12.21

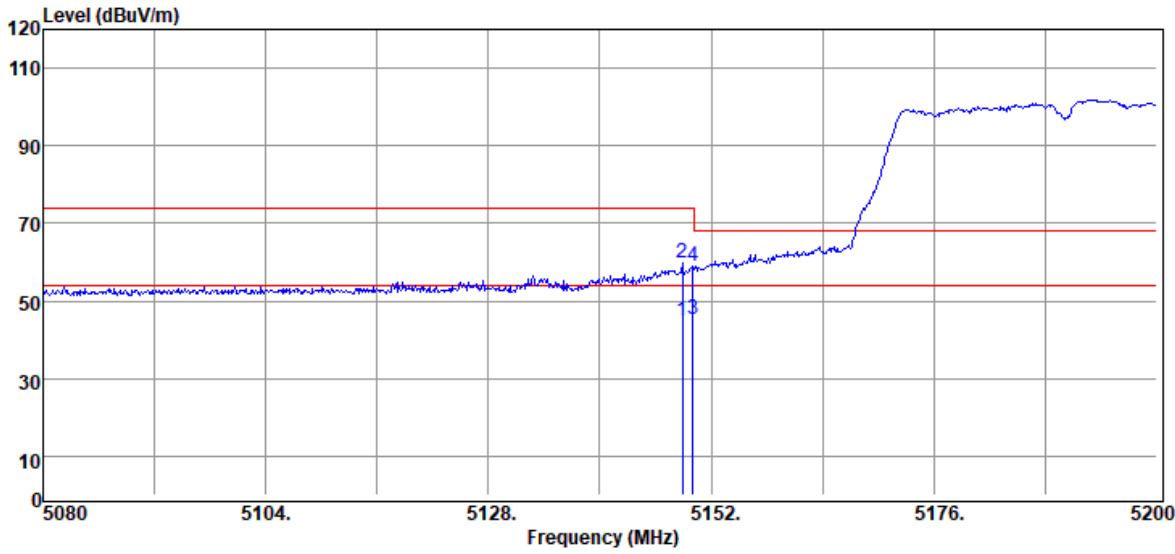
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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
5148.88	Average	44.37	0.44	44.81	54.00	-9.19
5148.88	Peak	59.22	0.44	59.66	74.00	-14.34
5150.00	Average	44.88	0.45	45.33	54.00	-8.67
5150.00	Peak	58.31	0.45	58.76	74.00	-15.24

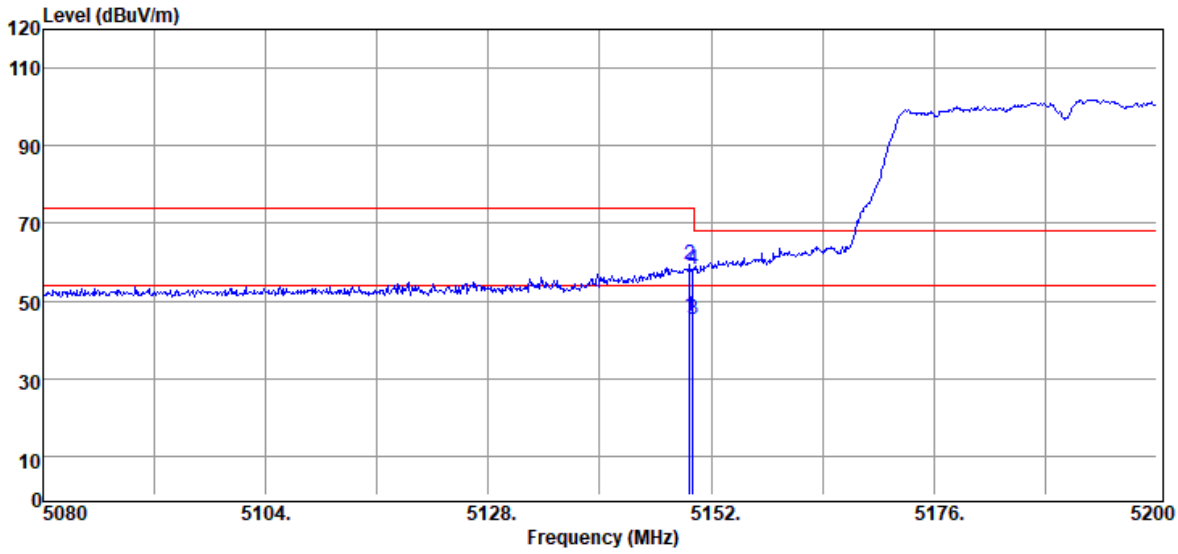
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Date :2020-06-03
 Temp./Humi. :21.8/68
 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
5149.72	Average	45.50	0.44	45.94	54.00	-8.06
5149.72	Peak	58.73	0.44	59.17	74.00	-14.83
5150.00	Average	44.95	0.45	45.40	54.00	-8.60
5150.00	Peak	57.74	0.45	58.19	74.00	-15.81

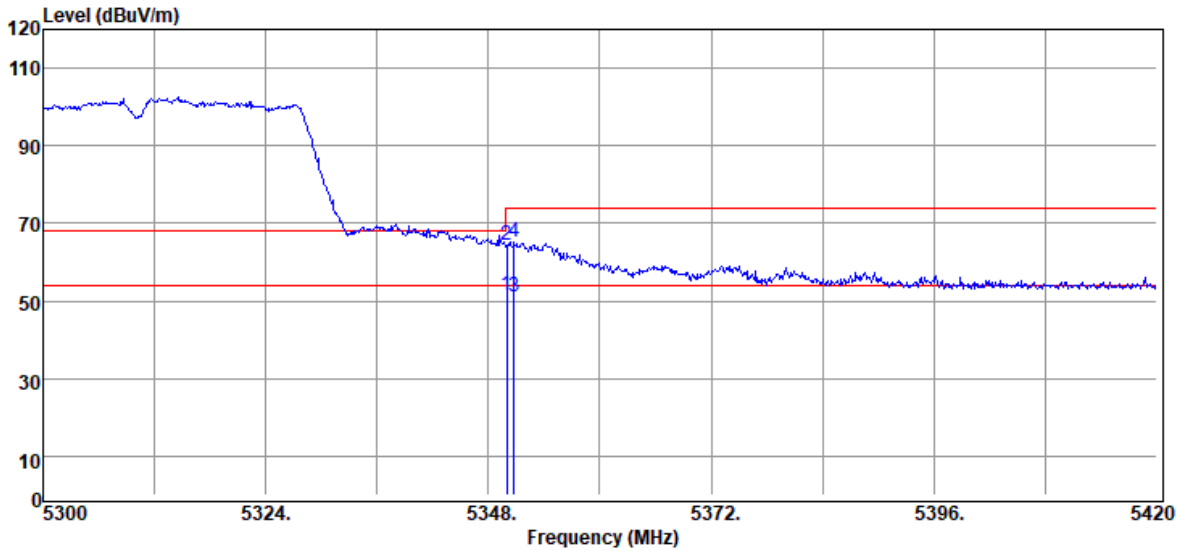
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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	51.48	0.17	51.65	54.00	-2.35
5350.00	Peak	64.02	0.17	64.19	74.00	-9.81
5350.76	Average	51.05	0.17	51.22	54.00	-2.78
5350.76	Peak	65.00	0.17	65.17	74.00	-8.83

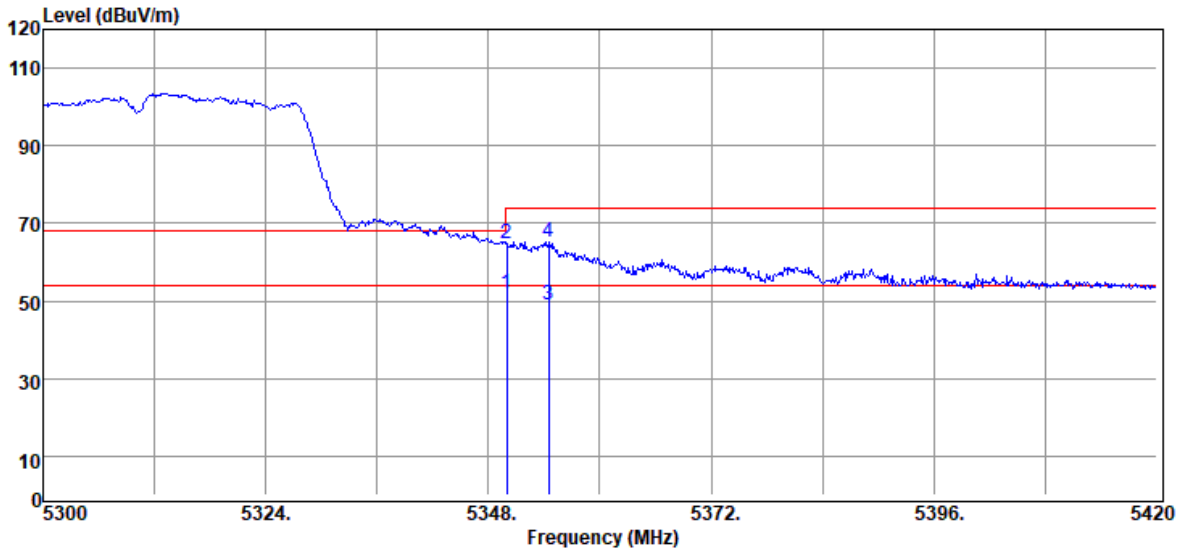
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/68
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	51.83	0.17	52.00	54.00	-2.00
5350.00	Peak	64.41	0.17	64.58	74.00	-9.42
5354.48	Average	48.69	0.22	48.91	54.00	-5.09
5354.48	Peak	65.10	0.22	65.32	74.00	-8.68

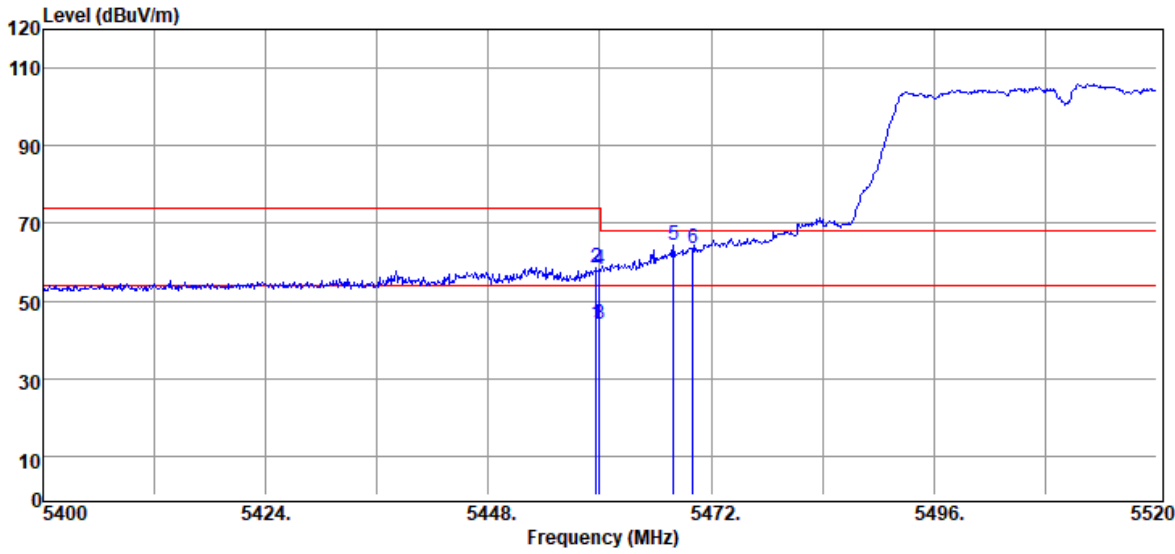
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/67
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
5459.64	Average	42.80	1.28	44.08	54.00	-9.92
5459.64	Peak	57.37	1.28	58.65	74.00	-15.35
5460.00	Average	42.86	1.28	44.14	54.00	-9.86
5460.00	Peak	56.86	1.28	58.14	74.00	-15.86
5467.92	Peak	62.81	1.34	64.15	68.20	-4.05
5470.00	Peak	62.22	1.36	63.58	68.20	-4.62

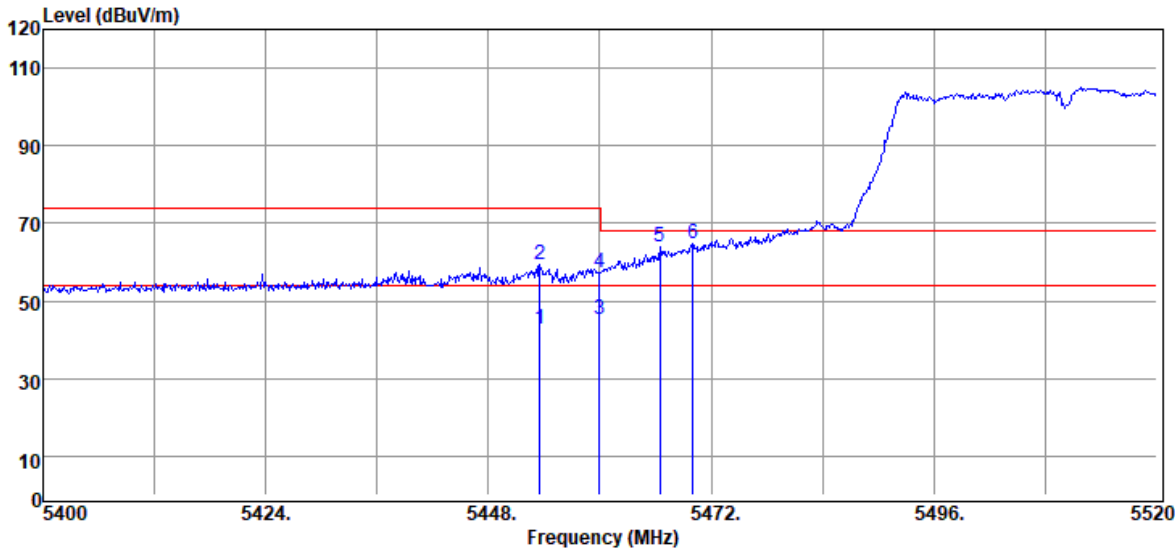
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.9/67
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
5453.52	Average	41.36	1.24	42.60	54.00	-11.40
5453.52	Peak	58.06	1.24	59.30	74.00	-14.70
5460.00	Average	43.86	1.28	45.14	54.00	-8.86
5460.00	Peak	56.14	1.28	57.42	74.00	-16.58
5466.48	Peak	62.53	1.33	63.86	68.20	-4.34
5470.00	Peak	63.28	1.36	64.64	68.20	-3.56

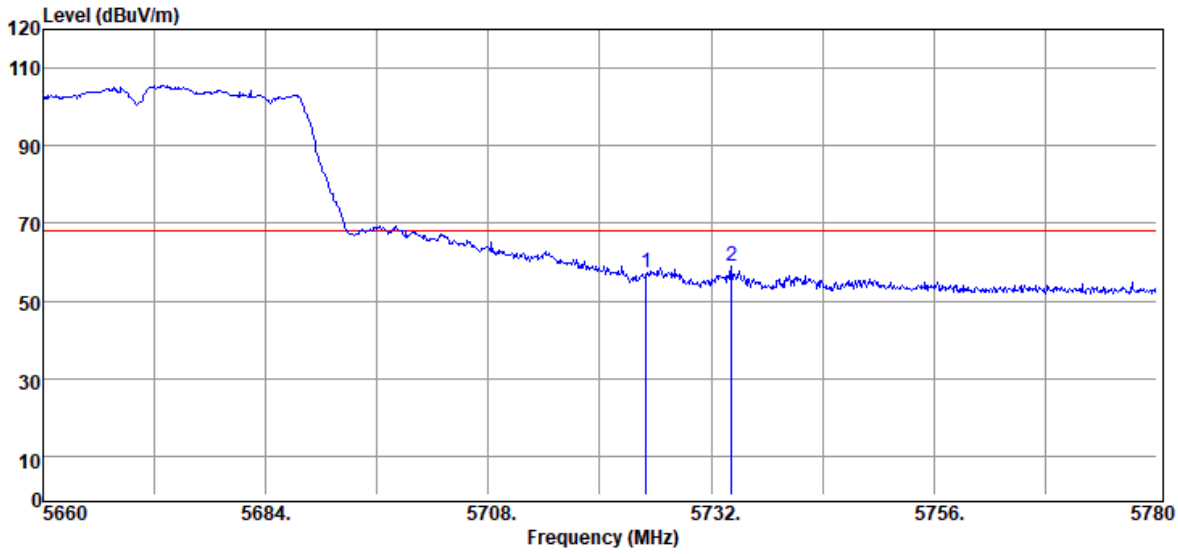
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-03
 Temp./Humi. :21.8/67
 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	56.44	0.98	57.42	68.20	-10.78
5734.16	Peak	57.99	0.99	58.98	68.20	-9.22

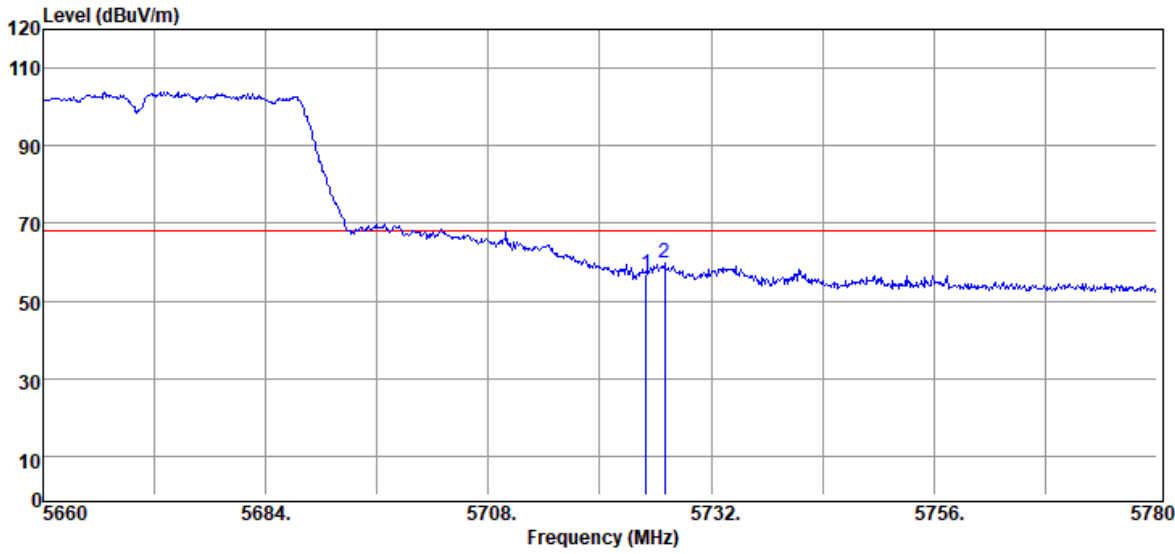
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Report Number :E2/2020/50041
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-03
 Temp./Humi. :21.8/67
 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
5725.00	Peak	55.86	0.98	56.84	68.20	-11.36
5726.96	Peak	58.67	0.99	59.66	68.20	-8.54

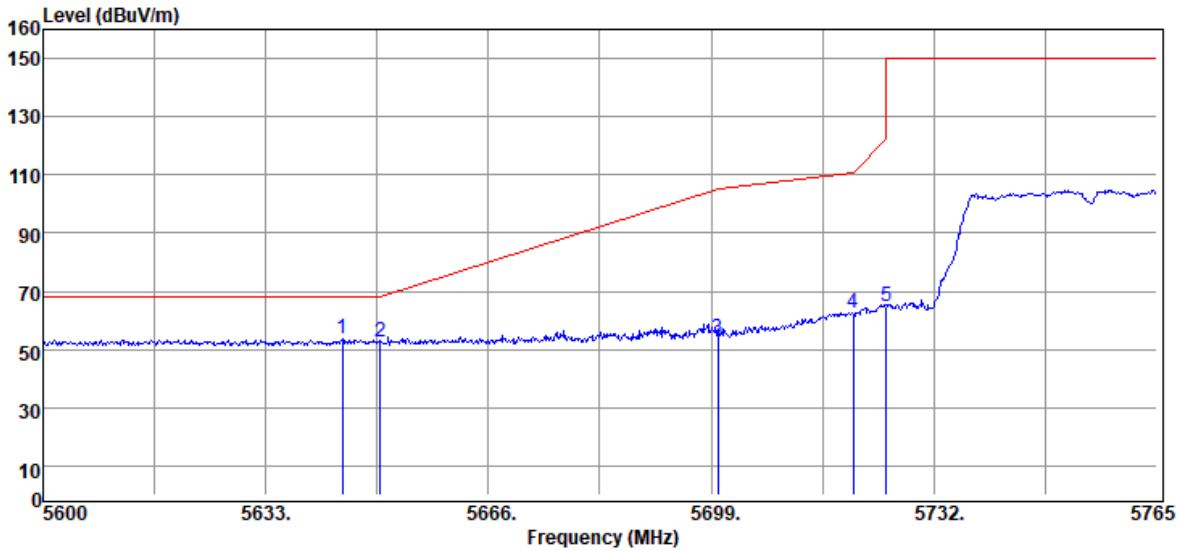
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/66
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
5644.39	Peak	53.16	0.68	53.84	68.20	-14.36
5650.00	Peak	52.00	0.69	52.69	68.20	-15.51
5700.00	Peak	52.87	1.00	53.87	105.20	-51.33
5720.00	Peak	61.78	0.99	62.77	110.80	-48.03
5725.00	Peak	63.53	0.98	64.51	122.20	-57.69

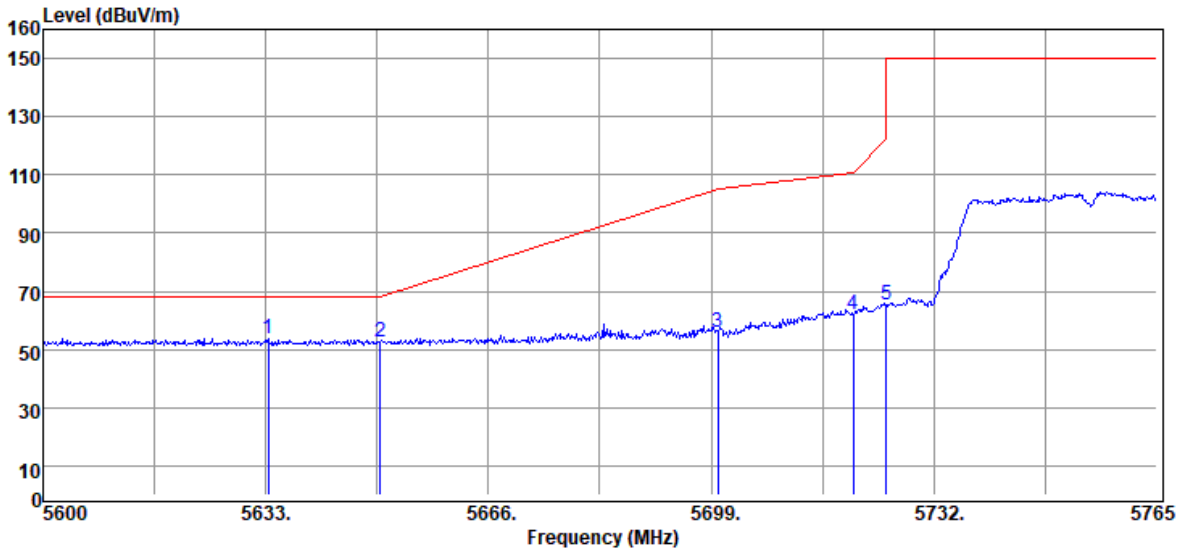
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/66
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
5633.33	Peak	53.13	0.65	53.78	68.20	-14.42
5650.00	Peak	52.04	0.69	52.73	68.20	-15.47
5700.00	Peak	55.12	1.00	56.12	105.20	-49.08
5720.00	Peak	60.84	0.99	61.83	110.80	-48.97
5725.00	Peak	64.34	0.98	65.32	122.20	-56.88

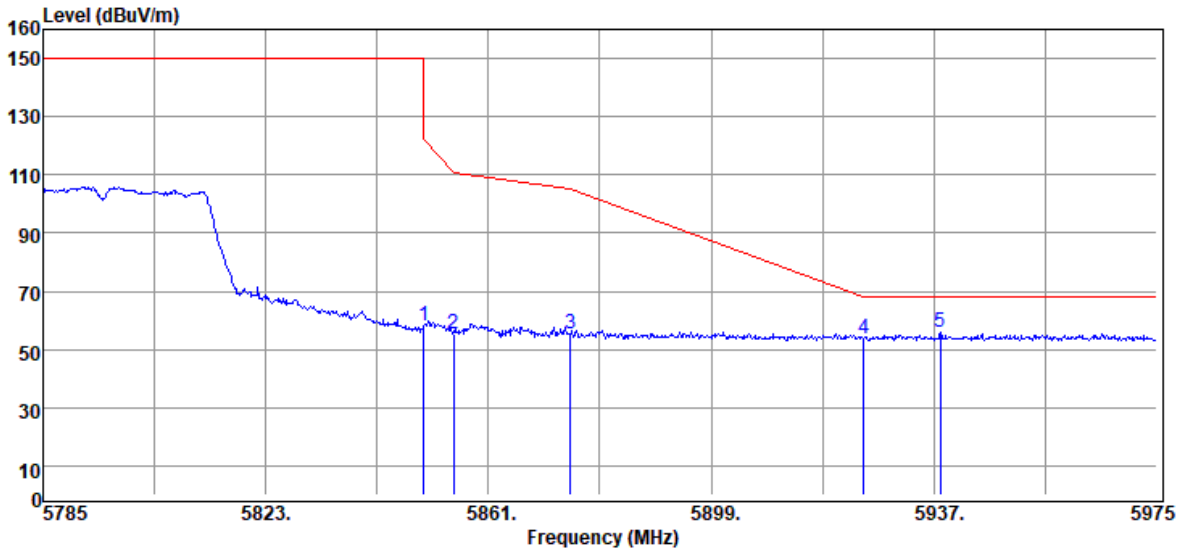
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/66
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
5850.00	Peak	57.10	1.13	58.23	122.20	-63.97
5855.00	Peak	54.43	1.16	55.59	110.80	-55.21
5875.00	Peak	54.04	1.31	55.35	105.20	-49.85
5925.00	Peak	52.28	1.37	53.65	68.20	-14.55
5938.14	Peak	54.47	1.31	55.78	68.20	-12.42

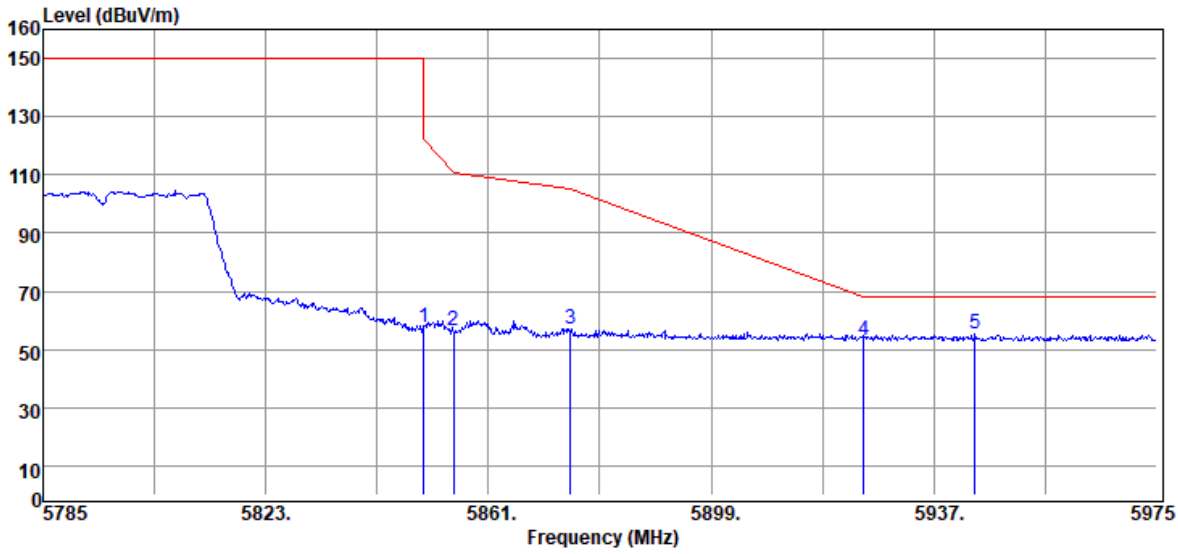
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Report Number :E2/2020/50041
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.8/66
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
5850.00	Peak	56.20	1.13	57.33	122.20	-64.87
5855.00	Peak	55.29	1.16	56.45	110.80	-54.35
5875.00	Peak	55.80	1.31	57.11	105.20	-48.09
5925.00	Peak	51.98	1.37	53.35	68.20	-14.85
5944.03	Peak	53.96	1.27	55.23	68.20	-12.97

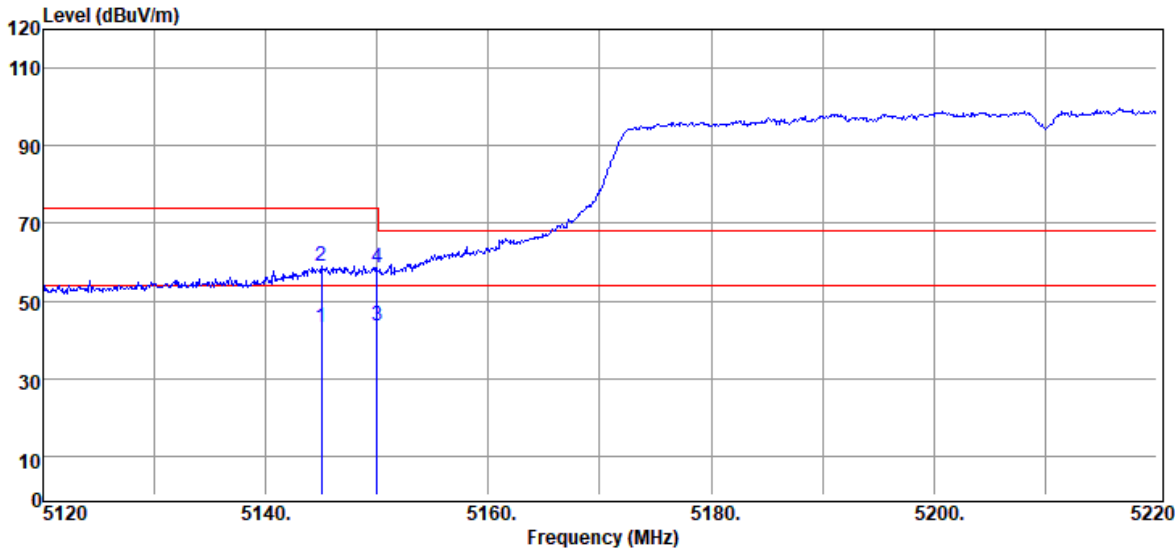
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/67
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
5145.00	Average	42.65	0.42	43.07	54.00	-10.93
5145.00	Peak	58.45	0.42	58.87	74.00	-15.13
5150.00	Average	43.05	0.45	43.50	54.00	-10.50
5150.00	Peak	58.21	0.45	58.66	74.00	-15.34

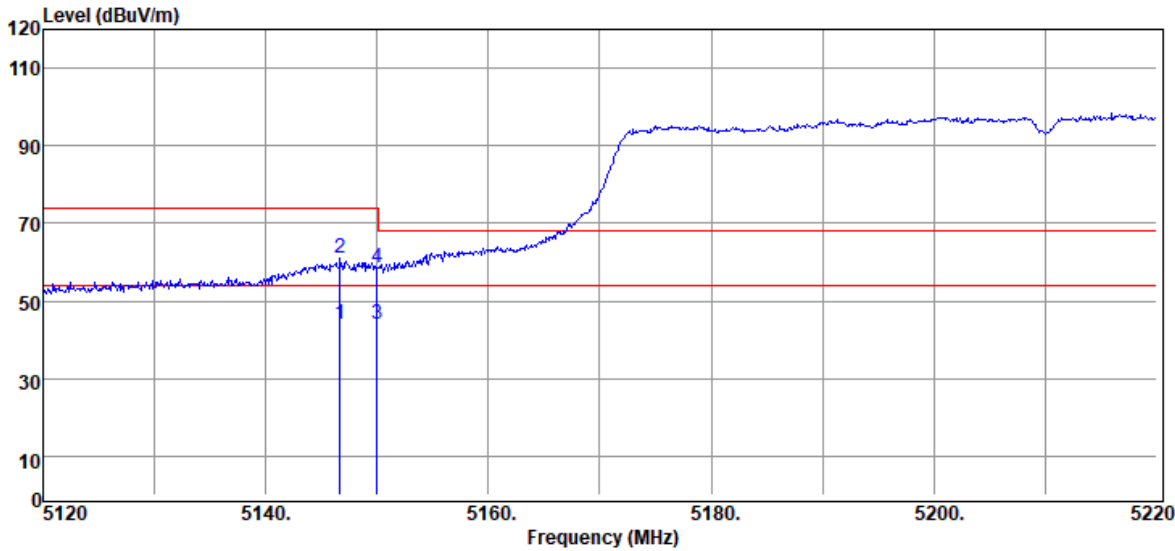
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Date :2020-06-03
 Temp./Humi. :21.7/67
 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
5146.70	Average	43.58	0.43	44.01	54.00	-9.99
5146.70	Peak	60.44	0.43	60.87	74.00	-13.13
5150.00	Average	43.75	0.45	44.20	54.00	-9.80
5150.00	Peak	58.21	0.45	58.66	74.00	-15.34

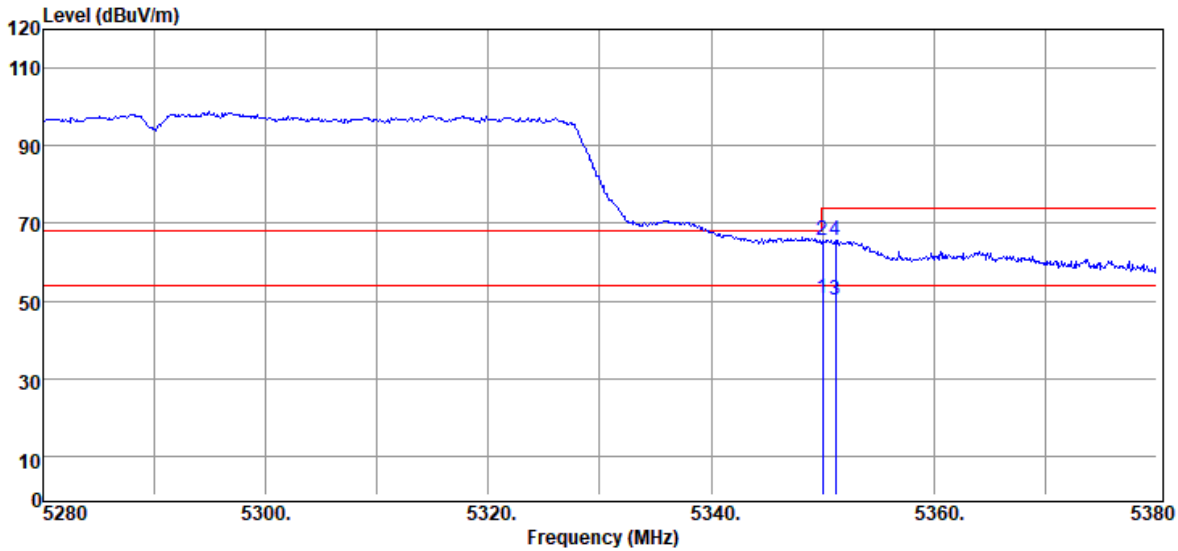
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/66
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	50.64	0.17	50.81	54.00	-3.19
5350.00	Peak	65.39	0.17	65.56	74.00	-8.44
5351.20	Average	50.25	0.18	50.43	54.00	-3.57
5351.20	Peak	65.53	0.18	65.71	74.00	-8.29

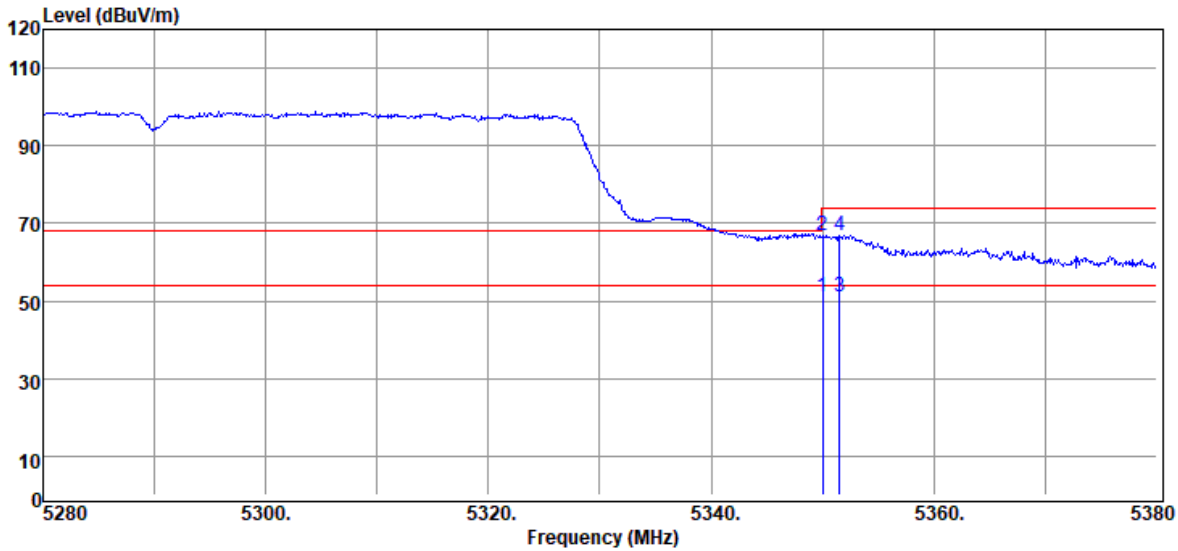
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/66
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	50.81	0.17	50.98	54.00	-3.02
5350.00	Peak	66.55	0.17	66.72	74.00	-7.28
5351.50	Average	50.74	0.18	50.92	54.00	-3.08
5351.50	Peak	66.71	0.18	66.89	74.00	-7.11

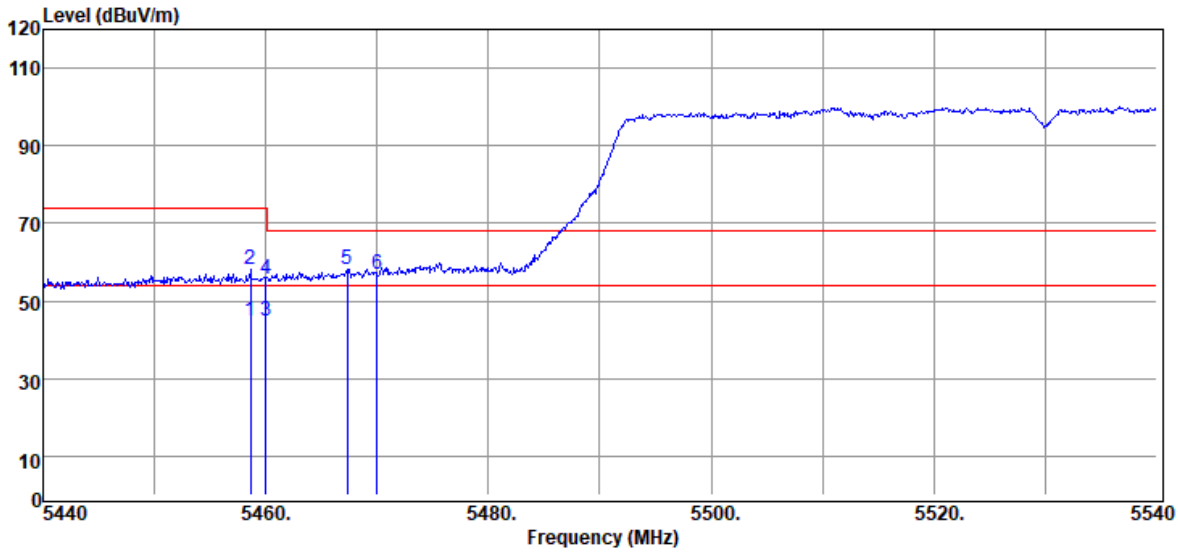
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/66
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
5458.60	Average	43.46	1.28	44.74	54.00	-9.26
5458.60	Peak	56.96	1.28	58.24	74.00	-15.76
5460.00	Average	43.46	1.28	44.74	54.00	-9.26
5460.00	Peak	54.50	1.28	55.78	74.00	-18.22
5467.30	Peak	56.92	1.33	58.25	68.20	-9.95
5470.00	Peak	55.61	1.36	56.97	68.20	-11.23

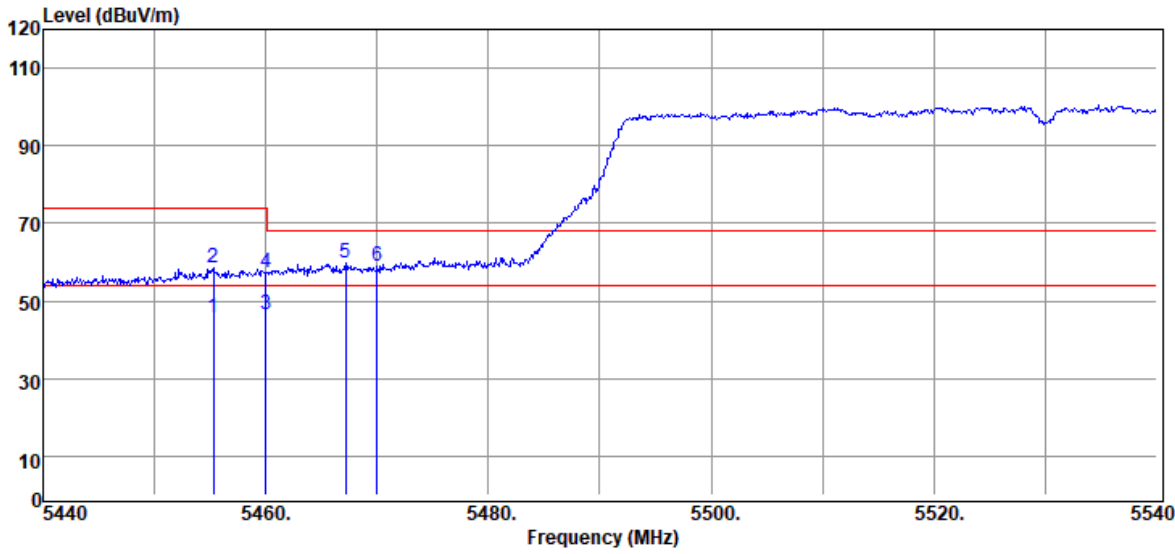
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/66
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
5455.30	Average	44.56	1.25	45.81	54.00	-8.19
5455.30	Peak	57.13	1.25	58.38	74.00	-15.62
5460.00	Average	45.06	1.28	46.34	54.00	-7.66
5460.00	Peak	55.92	1.28	57.20	74.00	-16.80
5467.20	Peak	58.52	1.33	59.85	68.20	-8.35
5470.00	Peak	57.73	1.36	59.09	68.20	-9.11

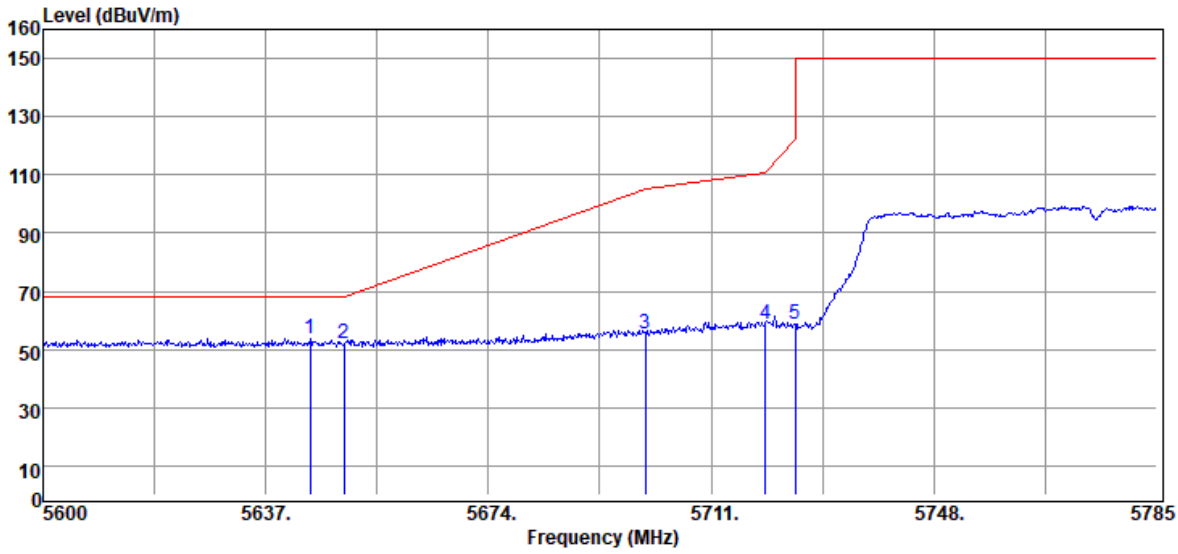
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Report Number :E2/2020/50041
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/66
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
5644.40	Peak	53.03	0.68	53.71	68.20	-14.49
5650.00	Peak	51.56	0.69	52.25	68.20	-15.95
5700.00	Peak	54.40	1.00	55.40	105.20	-49.80
5720.00	Peak	57.95	0.99	58.94	110.80	-51.86
5725.00	Peak	57.68	0.98	58.66	122.20	-63.54

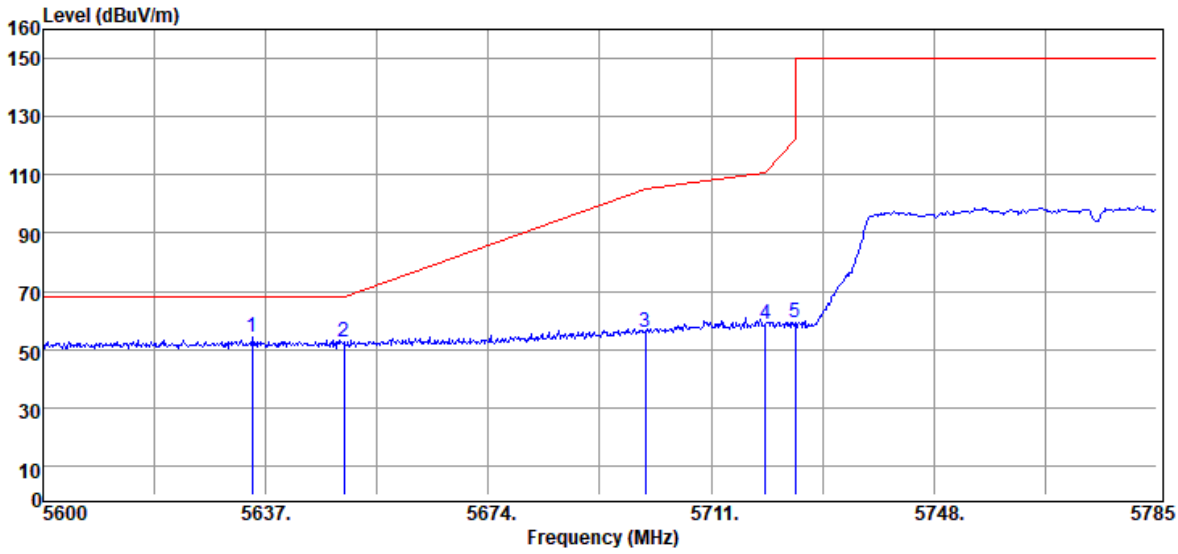
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Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Date :2020-06-03
Temp./Humi. :21.7/66
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
5634.78	Peak	53.44	0.66	54.10	68.20	-14.10
5650.00	Peak	51.68	0.69	52.37	68.20	-15.83
5700.00	Peak	54.89	1.00	55.89	105.20	-49.31
5720.00	Peak	57.56	0.99	58.55	110.80	-52.25
5725.00	Peak	58.00	0.98	58.98	122.20	-63.22

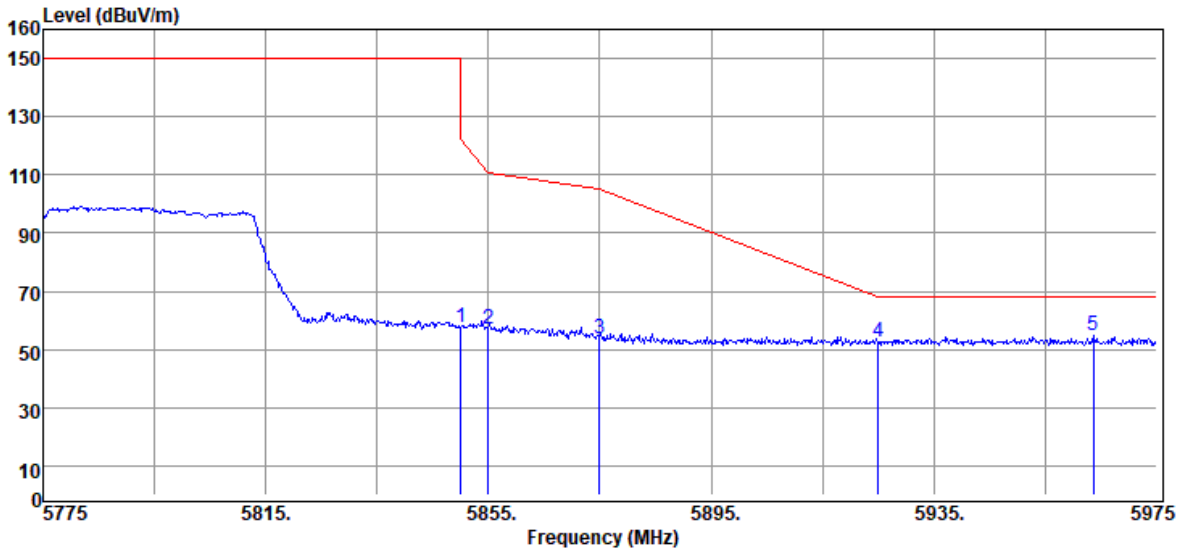
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Report Number :E2/2020/50041
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2020-06-03
 Temp./Humi. :21.7/66
 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
5850.00	Peak	56.53	1.13	57.66	122.20	-64.54
5855.00	Peak	55.83	1.16	56.99	110.80	-53.81
5875.00	Peak	52.53	1.31	53.84	105.20	-51.36
5925.00	Peak	51.25	1.37	52.62	68.20	-15.58
5963.60	Peak	53.52	1.15	54.67	68.20	-13.53

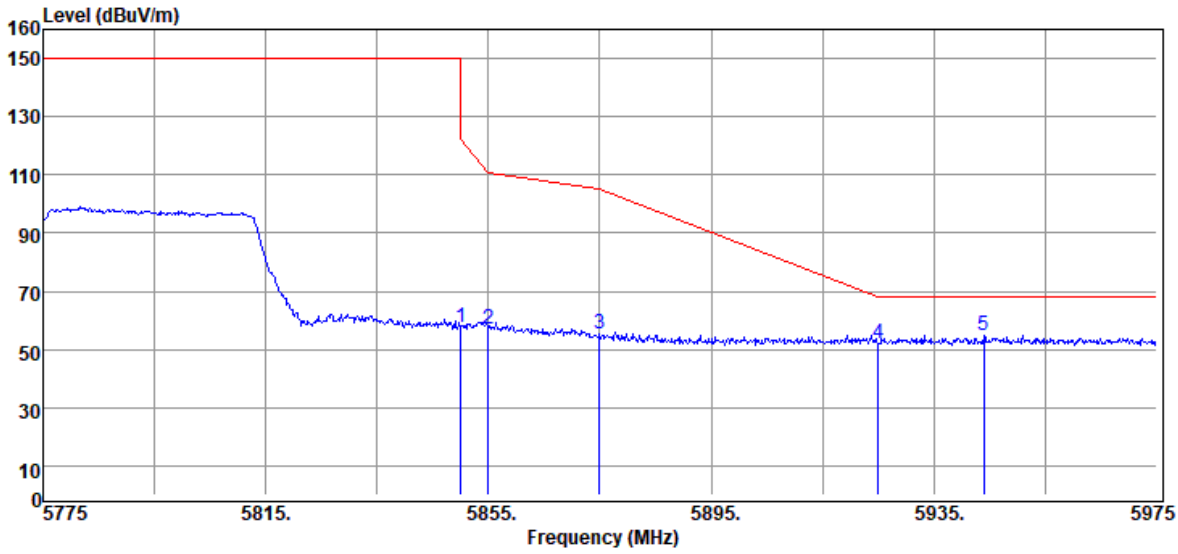
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Test Date :2020-06-03
Temp./Humi. :21.7/66
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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
5850.00	Peak	56.34	1.13	57.47	122.20	-64.73
5855.00	Peak	55.93	1.16	57.09	110.80	-53.71
5875.00	Peak	54.09	1.31	55.40	105.20	-49.80
5925.00	Peak	50.43	1.37	51.80	68.20	-16.40
5944.00	Peak	53.74	1.27	55.01	68.20	-13.19

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

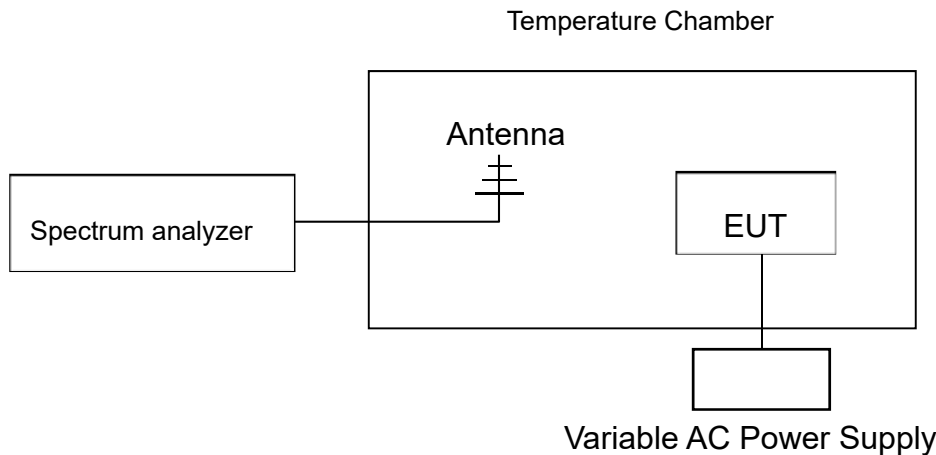
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070240	04/14/2019	04/14/2021
DC Block	PASTERNAK	PE8210	RF29	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.06.03
Temperature	: 24.2°C	Test By	Hone
Humidity	: 69%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,180.07532	-0.00001454
	6.4	36	5180	5,180.00536	-0.00000103
25	7.6	36	5180	5,180.03833	-0.00000740
40	8.7	36	5180	5,180.06387	-0.00001233
	6.4	36	5180	5,180.00228	-0.00000044

2 minutes

Operation Mode	802.11 a	Test Date	2020.06.03
Temperature	: 24.2°C	Test By	Hone
Humidity	: 69%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,180.02699	-0.00000521
	6.4	36	5180	5,180.06008	-0.00001160
25	7.6	36	5180	5,180.02261	-0.00000436
40	8.7	36	5180	5,180.01180	-0.00000228
	6.4	36	5180	5,180.06910	-0.00001334

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5 minutes

Operation Mode	802.11 a	Test Date	2020.06.03
Temperature	: 24.2°C	Test By	Hone
Humidity	: 69%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,180.07908	-0.00001527
	6.4	36	5180	5,180.06568	-0.00001268
25	7.6	36	5180	5,180.03717	-0.00000718
40	8.7	36	5180	5,180.05308	-0.00001025
	6.4	36	5180	5,180.05068	-0.00000978

10 minutes

Operation Mode	802.11 a	Test Date	2020.06.03
Temperature	: 24.2°C	Test By	Hone
Humidity	: 69%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,180.07916	-0.00001528
	6.4	36	5180	5,180.05597	-0.00001081
25	7.6	36	5180	5,180.05922	-0.00001143
40	8.7	36	5180	5,180.01262	-0.00000244
	6.4	36	5180	5,180.03096	-0.00000598

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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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