ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant:	FUJITSU CONNECTED TECHNOLOGIES Ltd. Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan
Product Name:	Smart Phone
Brand Name:	FUJITSU
Model No.:	F-42A
Model Difference:	N/A
Report Number:	ER/2020/40011
FCC ID:	2AQYEFMP178
FCC Rule Part:	§15.407, Cat: NII
Issue Date:	May 19th, 2020
Date of Test:	Apr. 14th, 2020 ~ May 8th, 2020
Date of EUT Received:	Mar. 31st, 2020

We hereby certify that:

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

Approved By: CHUN-CHIEH, CHEN

Chun Chieh Chen / Supervisor

Testing Laboratory
0513

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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/40011	Rev.00	Original.	May 19th, 2020	Revised By: Yuri Tsai

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:	Smart Phone	
Brand Name:	FUJITSU	
Model No.:	F-42A	
Model Difference:	N/A	
Hardware Version:	V1.2.0	
Software Version:	V00R016Ve	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery	
	Battery:	Model No.:CA54310-0075 Supplier: FUJITSU CONNECTED TECHNOLOGIES LIMITED
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only	
Antenna Designation:	λ/4 Monopole Antenna, Peak Gain: -2.3dBi	
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

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1.2 FCC worst power

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)	Modulation Technology
a	5150~5250	4	11.21	OFDM
	5250~5350	4	11.18	
	5470~5725	12	11.04	
n_HT ac_VHT 20M	5150~5250	4	HT: 11.25	OFDM
	5250~5350	4	HT: 11.19	
	5470~5725	12	HT: 11.03	
n_HT ac_VHT 40M	5150~5250	2	HT: 10.92	OFDM
	5250~5350	2	HT: 10.80	
	5470~5725	6	HT: 11.07	
ac_VHT 80M	5150~5250	1	VHT: 10.71	OFDM
	5250~5350	1	VHT: 11.02	
	5470~5725	3	VHT: 11.04	

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1.3 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

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0001

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 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 Configuration

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

Fig. 2-3 Conducted (AC powerline) Emission Configuration

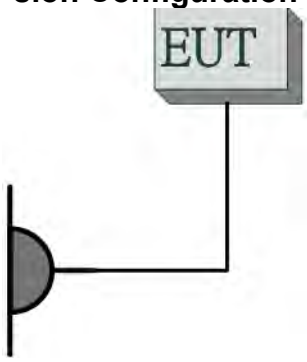

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	DC Power Supply	Agilent	E3640A	MY40000811	N/A	N/A
3	Notebook	Lenovo	L430	R9-XFG0X	Shielded	Unshielded

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3 SUMMARY OF TEST RESULT

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

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4 DESCRIPTION OF TEST MODES

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

Operated band in 5150 MHz ~5250 MHz:

20 M	
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

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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 gevin UE is pre-scanned among below modes.

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

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

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	Ch0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140, 144			
802.11n_HT20	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			
802.11n_HT40	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			
802.11ac_VHT80	5210	42	42		MCS0	Ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			

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

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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)	ANTENNA 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			
802.11n_HT20	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			
802.11n_HT40	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			
802.11ac_VHT80	5210	42	42		MCS0	Ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			

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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.**
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	Jul. 4th, 2019	Jul. 3rd, 2020
LISN	SCHWARZBECK	NSLK 8127	8127-649	Jun. 3rd, 2020	Jun. 2nd, 2020
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R
Coaxial Cables	N/A	WK CE Cable	N/A	Jan. 2nd, 2020	Jan. 1st, 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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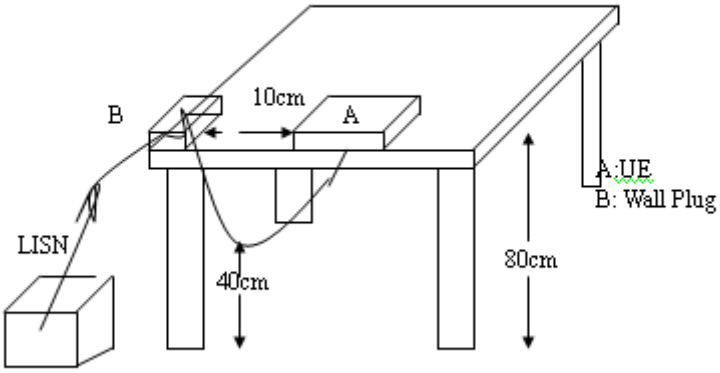
6.4 Test SET-UP



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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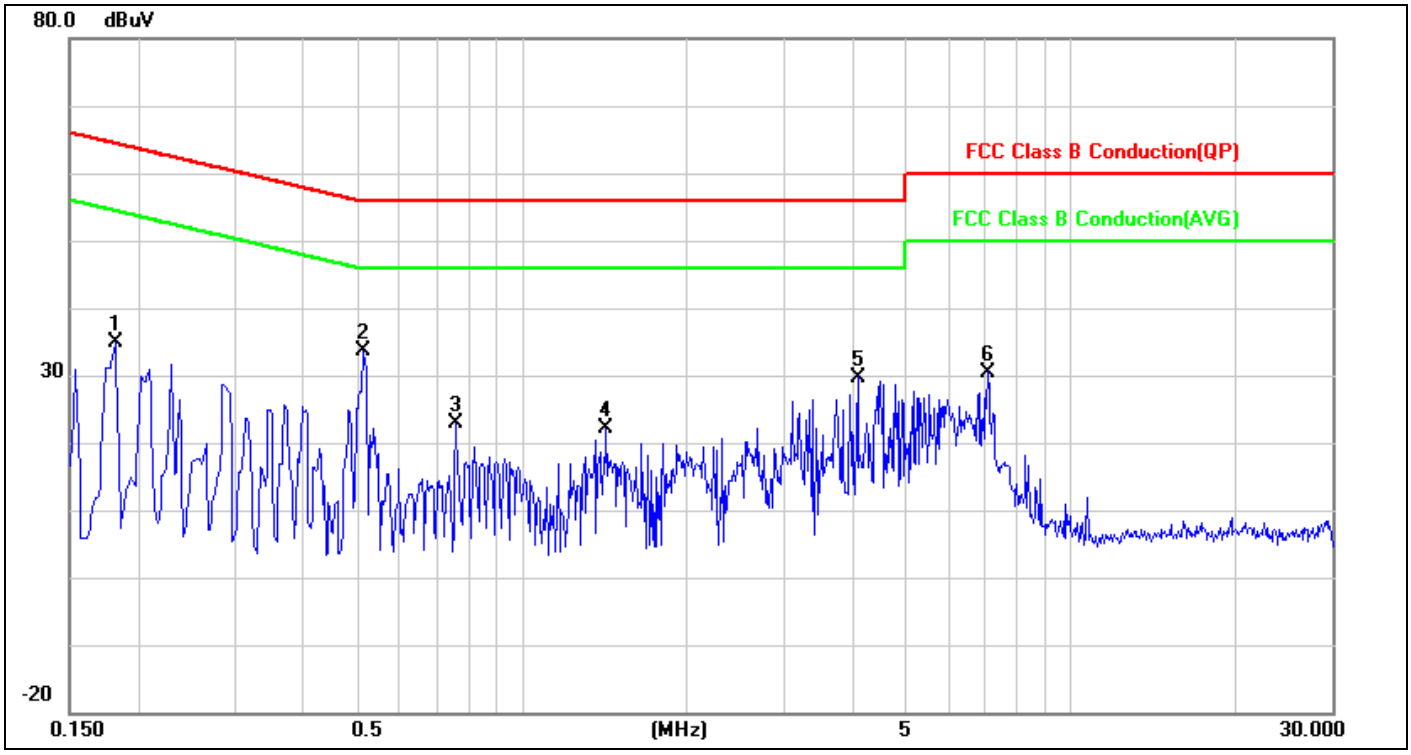
AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2020/04/29
Line:	L1	Temp.(℃)/Hum.(%):	23 (℃)/55%
Test Voltage:	AC 120V/60Hz	Test By:	Neo
Report Number	ER/2020/40011		



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
1		0.1820	34.96	0.01	34.97	64.39	-29.42	peak
2	*	0.5140	33.54	0.01	33.55	56.00	-22.45	peak
3		0.7620	22.90	0.02	22.92	56.00	-33.08	peak
4		1.4260	22.15	0.03	22.18	56.00	-33.82	peak
5		4.1100	29.61	0.14	29.75	56.00	-26.25	peak
6		7.0940	30.27	0.23	30.50	60.00	-29.50	peak

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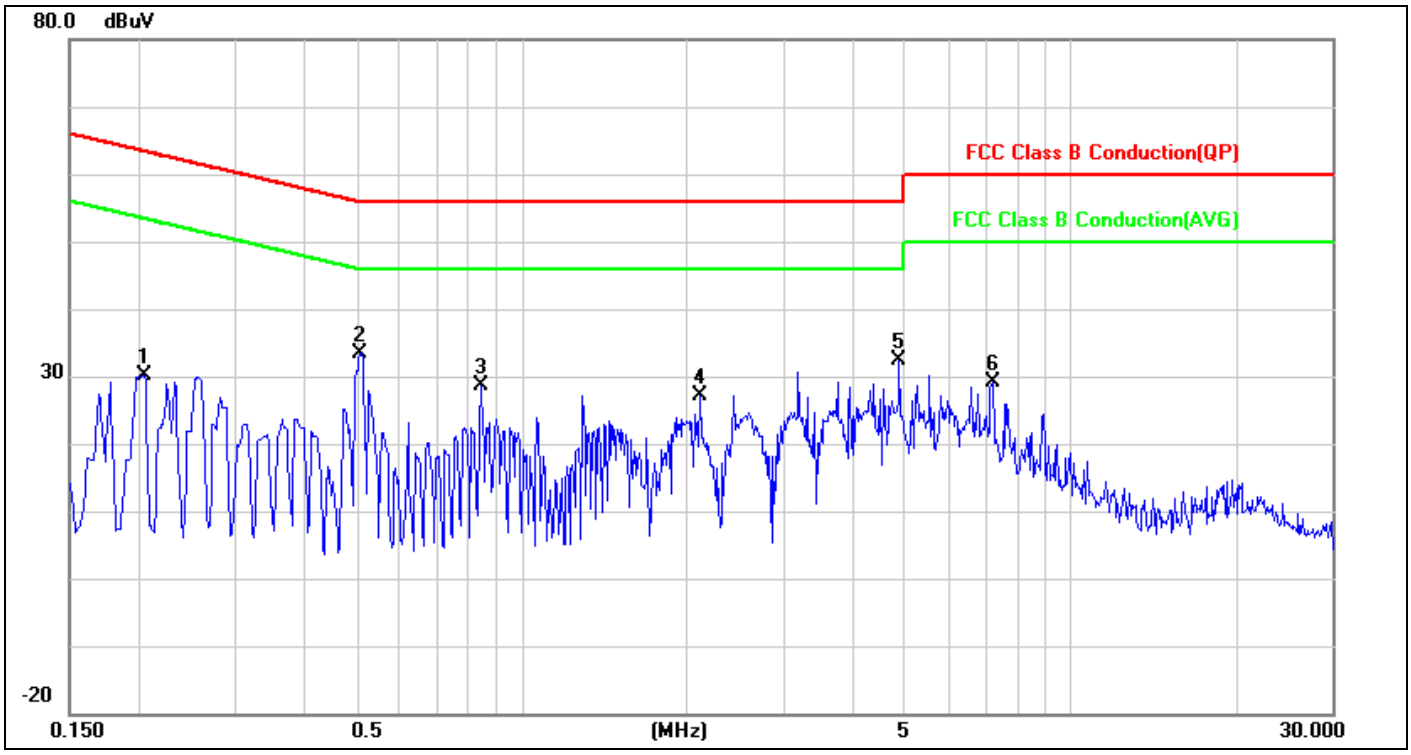
Description:	Operation	Date:	2020/04/29
Line:	N	Temp.(℃)/Hum.(%):	23(℃)/55%
Test Voltage:	AC 120V/60Hz	Test By:	Neo
Report Number	ER/2020/40011		



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
1		0.2060	30.05	0.01	30.06	63.37	-33.31	peak
2	*	0.5100	33.42	0.01	33.43	56.00	-22.57	peak
3		0.8460	28.50	0.02	28.52	56.00	-27.48	peak
4		2.1180	26.99	0.04	27.03	56.00	-28.97	peak
5		4.8820	32.19	0.19	32.38	56.00	-23.62	peak
6		7.2420	28.81	0.23	29.04	60.00	-30.96	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	100.00	0.00	0.00	0.01
802.11n_20	100.00	0.00	0.00	0.01
802.11ac_20	99.21	0.03	1.03	2.00
802.11n_40	100.00	0.00	0.00	0.01
802.11ac_40	98.10	0.08	2.02	3.00
802.11ac_80	95.94	0.18	4.03	5.00

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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a_20MHz

802.11n_40MHz

802.11n_20MHz

802.11ac_40MHz

802.11ac_20MHz

802.11ac_80MHz

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8 26DB &6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.

   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.

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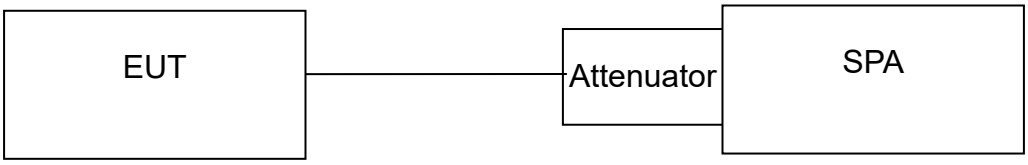
8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
Temperature Chamber	TERCHY	MHG-120LF	911009	May 17th, 2019	May 16th, 2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

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	21.54	13.332
5220	21.68	13.360
5240	21.83	13.390
5260	21.78	13.380
5300	21.79	13.383
5320	21.89	13.403
5500	21.79	13.382
5580	21.86	13.396
5700	22.10	13.444
5720	21.73	13.371

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.93	13.411
5220	21.94	13.412
5240	22.27	13.477
5260	22.23	13.470
5300	21.91	13.407
5320	21.95	13.415
5500	21.93	13.410
5580	22.45	13.512
5700	22.26	13.475
5720	22.01	13.426

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802.11n _HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	42.97	16.332
5230	42.67	16.302
5270	43.17	16.352
5310	43.08	16.343
5510	42.56	16.290
5550	**42.00**	16.233
5670	42.07	16.239
5710	42.52	16.286

802.11ac _VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.46	19.163
5290	84.22	19.254
5530	82.95	19.188
5610	83.55	19.220
5690	81.72	19.123

8.5.2 99% BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.43	< 5250

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.97	< 5250

802.11n _HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250

802.11ac _VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.30	< 5250

Please see next page for test plots.

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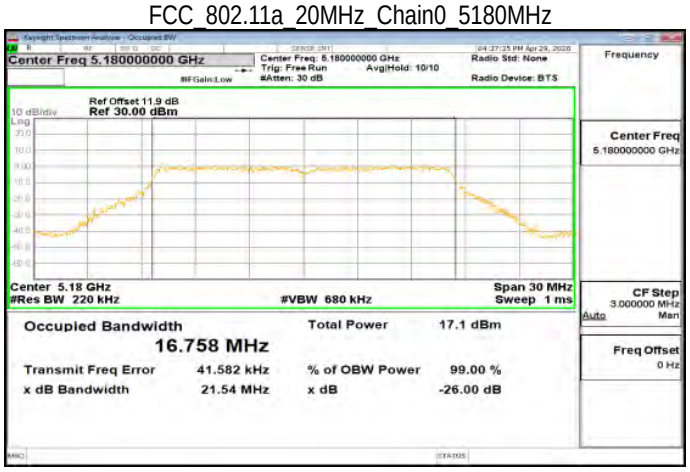
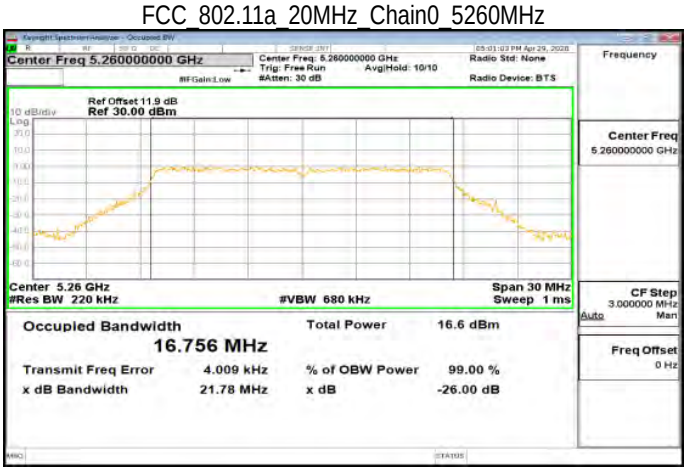
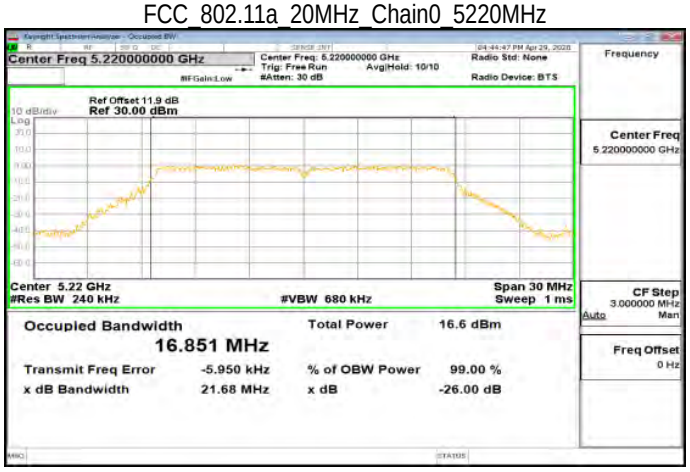
FCC_802.11a_20MHz_Chain0_5180MHz



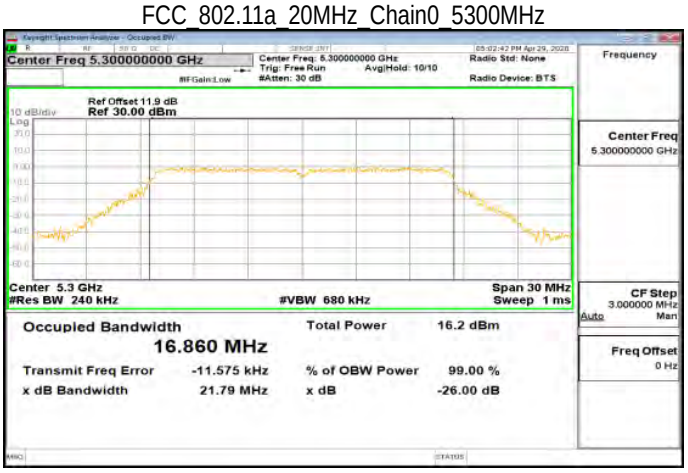
FCC_802.11a_20MHz_Chain0_5260MHz



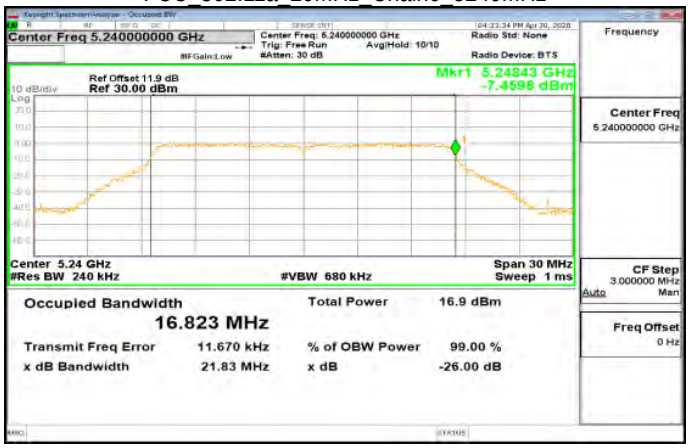
FCC_802.11a_20MHz_Chain0_5220MHz



FCC_802.11a_20MHz_Chain0_5300MHz



FCC_802.11a_20MHz_Chain0_5240MHz



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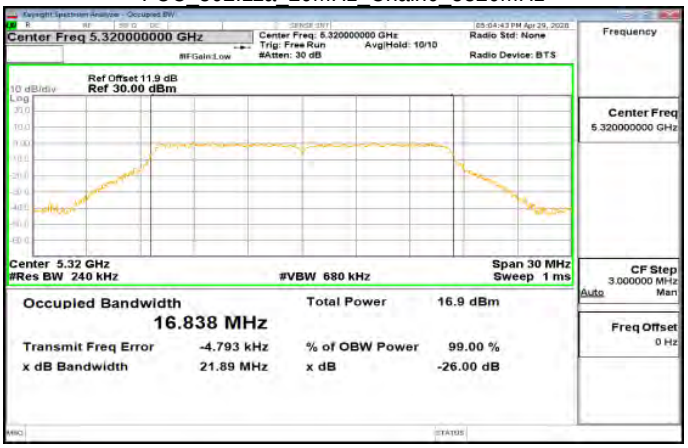

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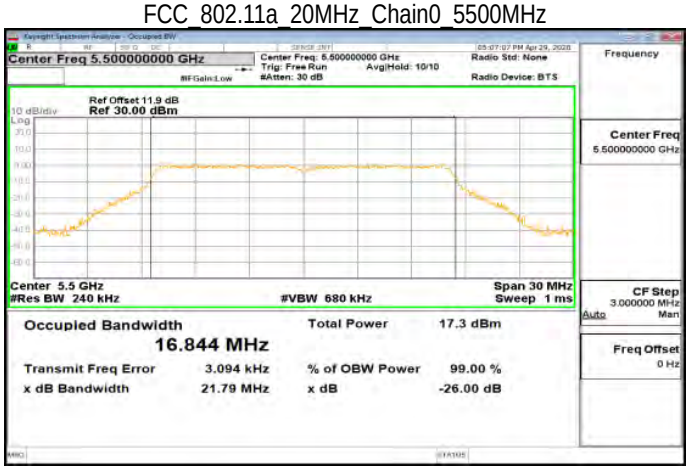
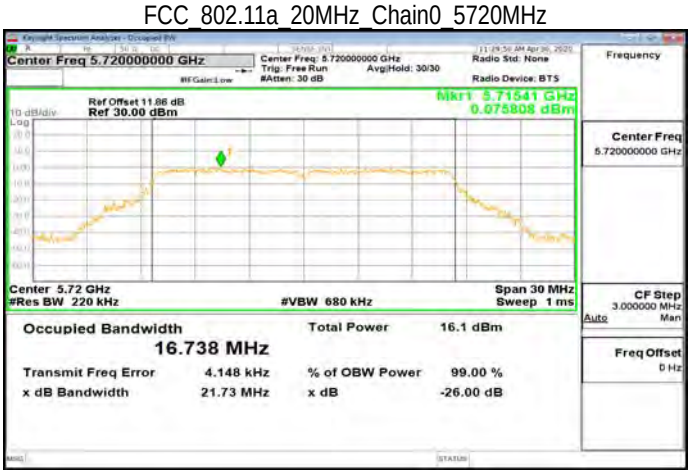
FCC_802.11a_20MHz_Chain0_5500MHz



FCC_802.11a_20MHz_Chain0_5720MHz



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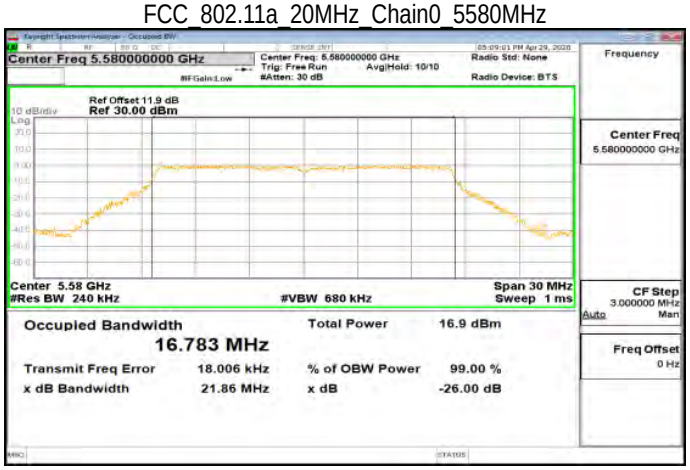
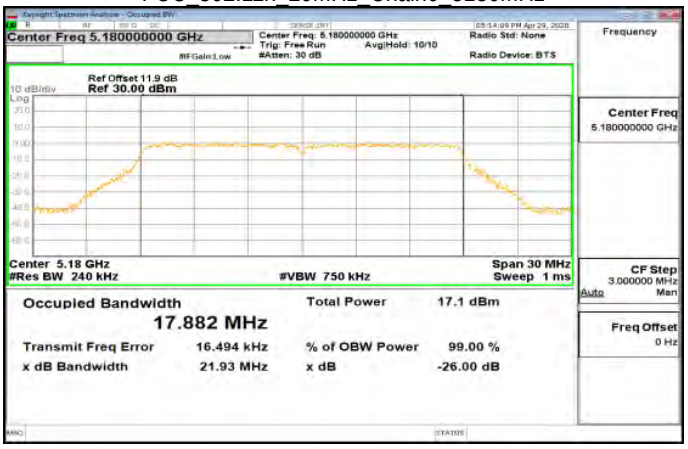
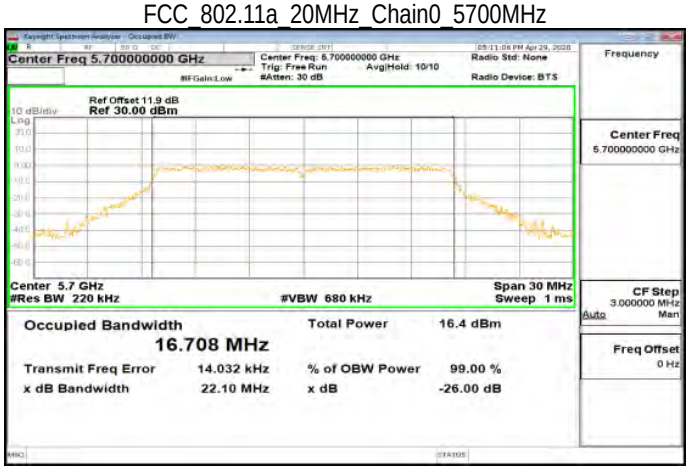


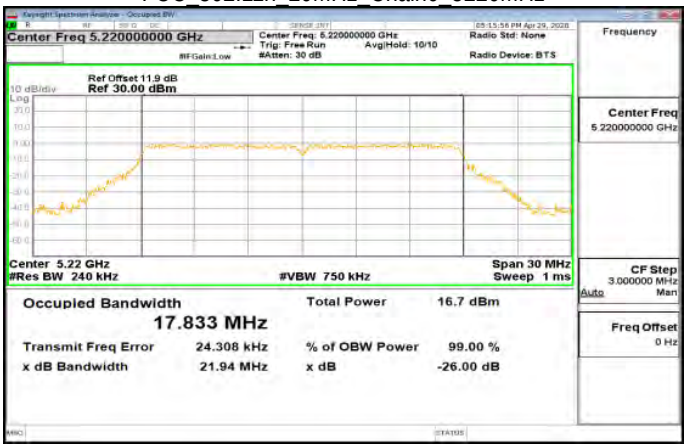
FCC_802.11n_20MHz_Chain0_5180MHz



FCC_802.11a_20MHz_Chain0_5700MHz



FCC_802.11n_20MHz_Chain0_5220MHz



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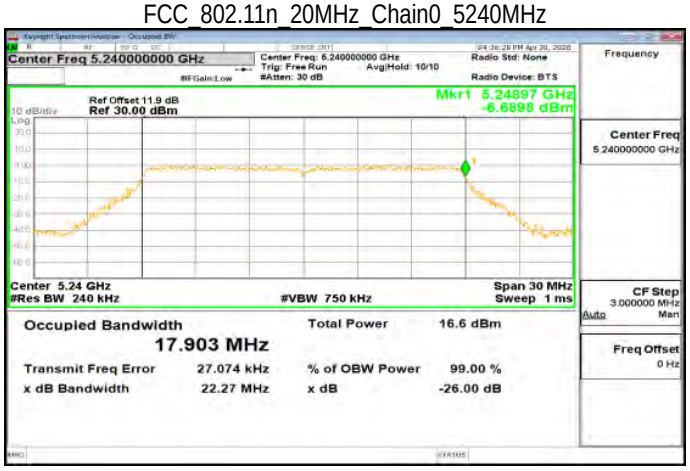
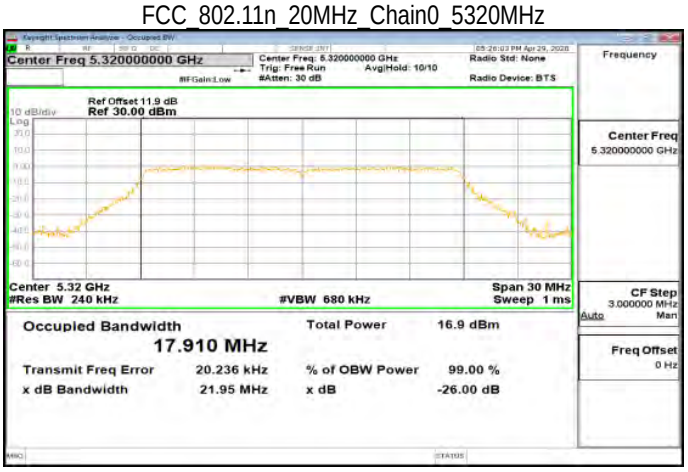
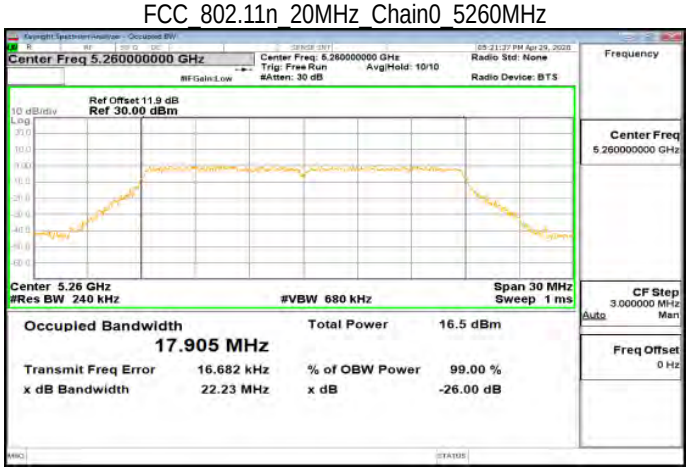
FCC_802.11n_20MHz_Chain0_5240MHz



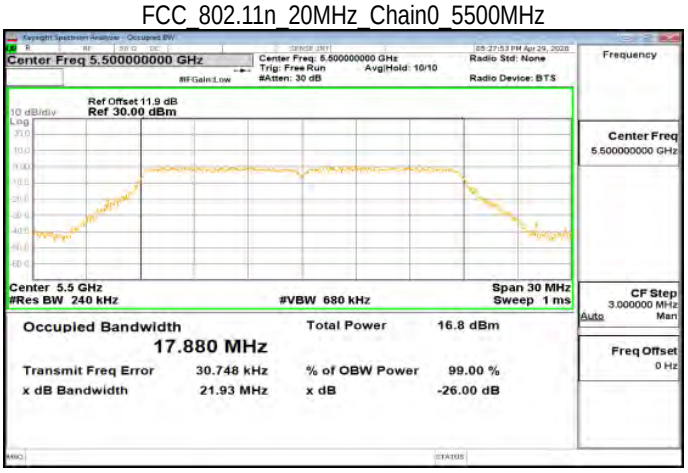
FCC_802.11n_20MHz_Chain0_5320MHz



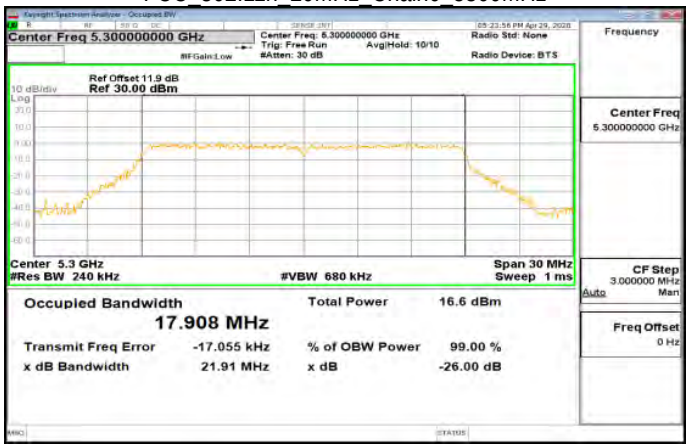
FCC_802.11n_20MHz_Chain0_5260MHz



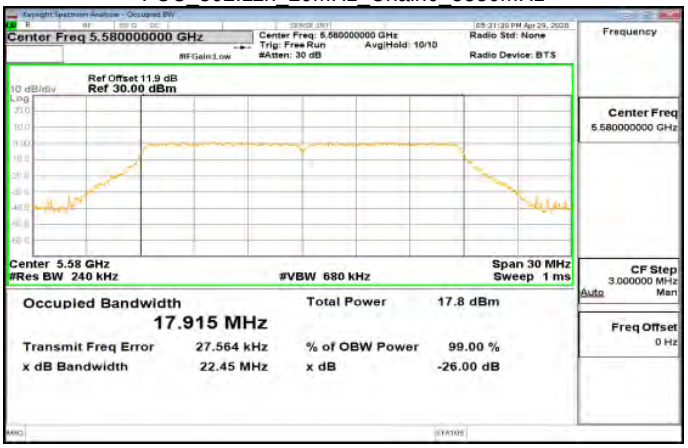
FCC_802.11n_20MHz_Chain0_5500MHz



FCC_802.11n_20MHz_Chain0_5300MHz



FCC_802.11n_20MHz_Chain0_5580MHz



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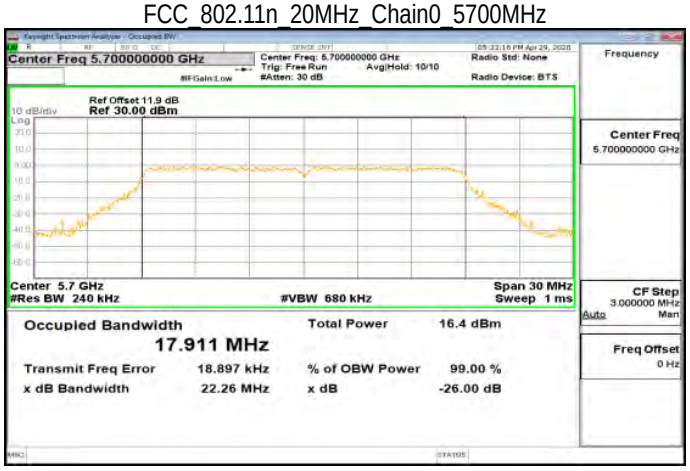
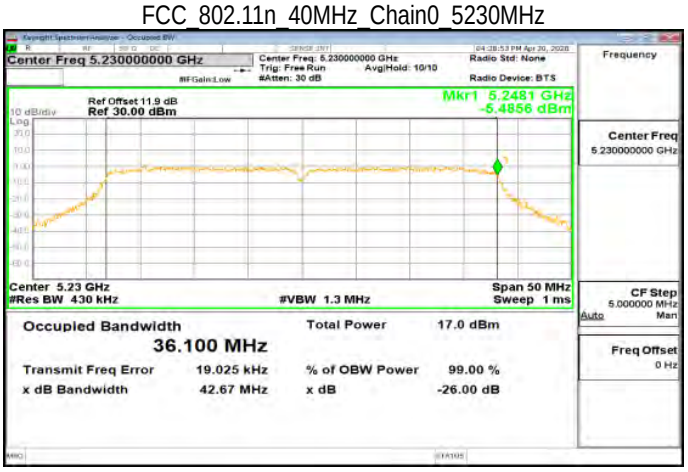
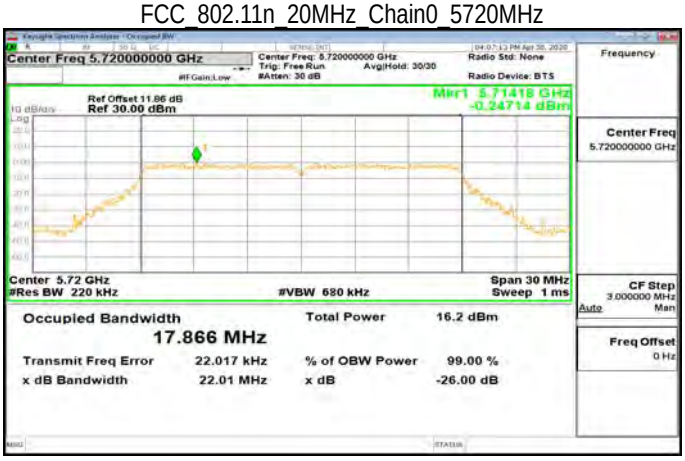
FCC_802.11n_20MHz_Chain0_5700MHz



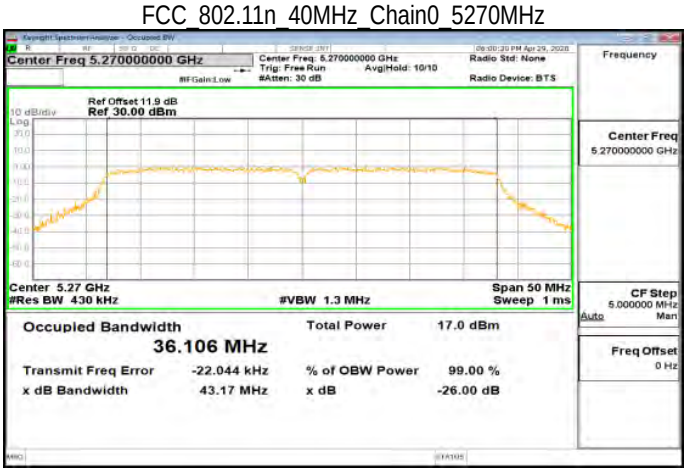
FCC_802.11n_40MHz_Chain0_5230MHz



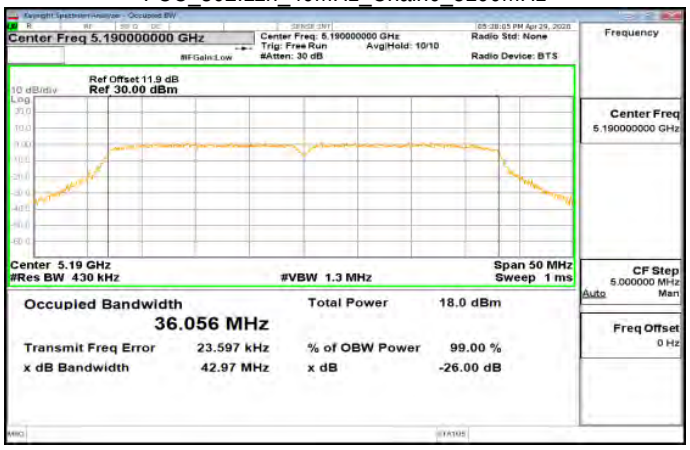
FCC_802.11n_20MHz_Chain0_5720MHz



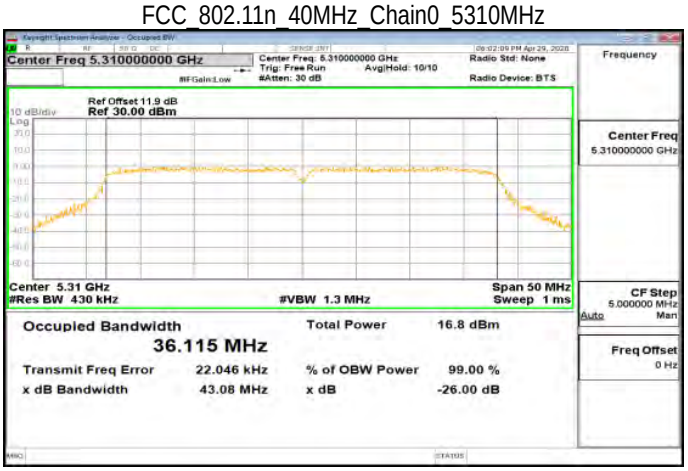
FCC_802.11n_40MHz_Chain0_5270MHz



FCC_802.11n_40MHz_Chain0_5190MHz



FCC_802.11n_40MHz_Chain0_5310MHz



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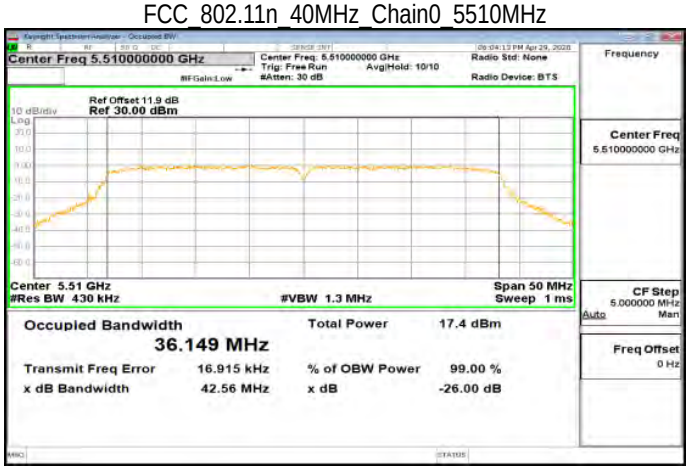
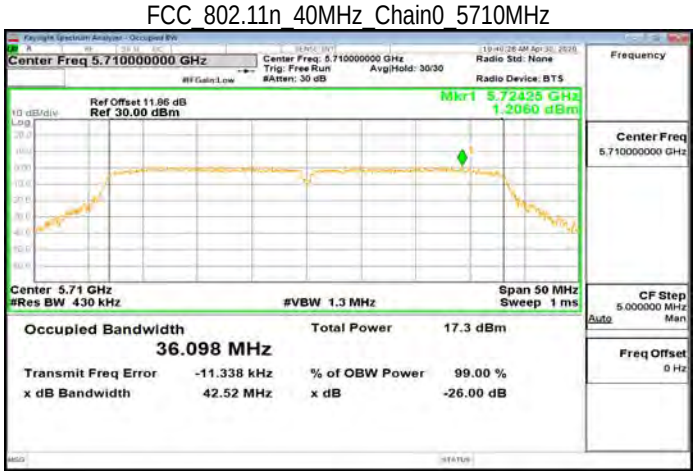
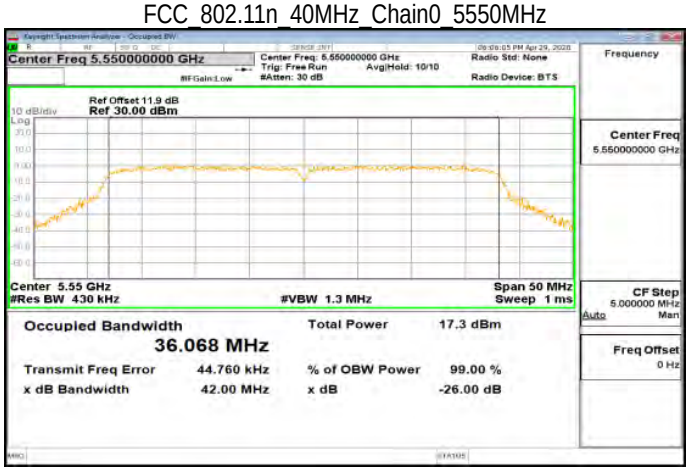
FCC_802.11n_40MHz_Chain0_5510MHz



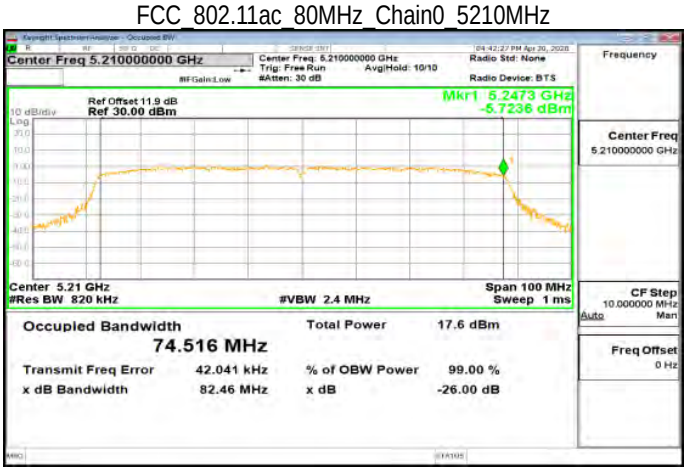
FCC_802.11n_40MHz_Chain0_5710MHz



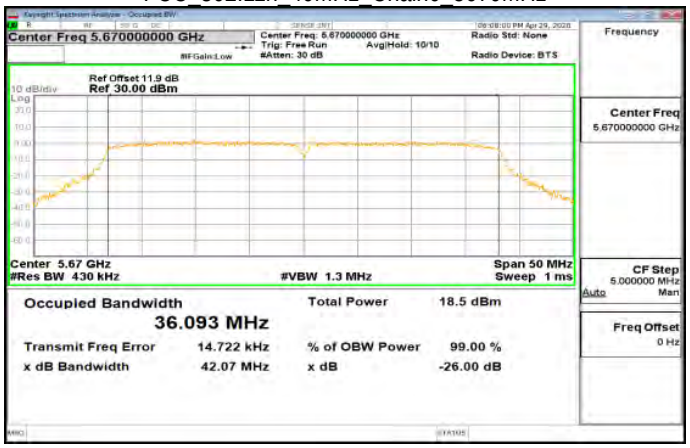
FCC_802.11n_40MHz_Chain0_5550MHz



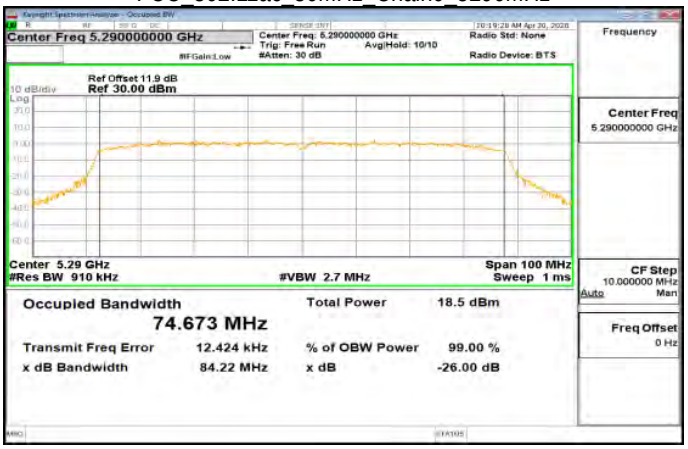
FCC_802.11ac_80MHz_Chain0_5210MHz



FCC_802.11n_40MHz_Chain0_5670MHz



FCC_802.11ac_80MHz_Chain0_5290MHz



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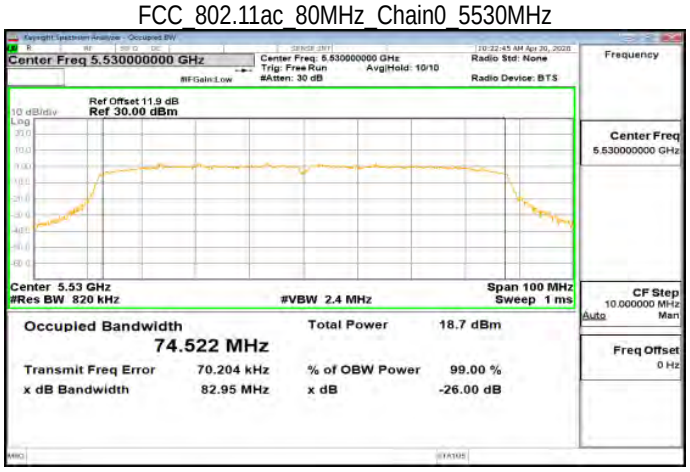
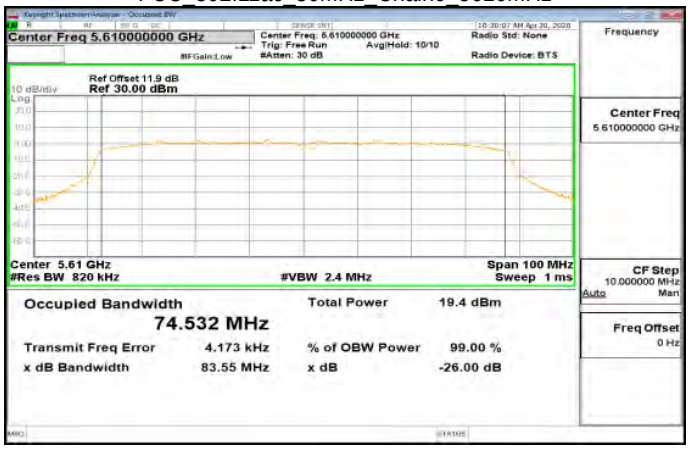
FCC_802.11ac_80MHz_Chain0_5530MHz



FCC_802.11ac_80MHz_Chain0_5610MHz



FCC_802.11ac_80MHz_Chain0_5690MHz

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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.			

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

9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Power Meter	Anritsu	ML2496A	1804001	Feb. 20th, 2020	Feb. 19th, 2021
Power Sensor	Anritsu	MA2411B	1726104	Feb. 20th, 2020	Feb. 19th, 2021
Power Sensor	Anritsu	MA2411B	1726107	Feb. 20th, 2020	Feb. 19th, 2021
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

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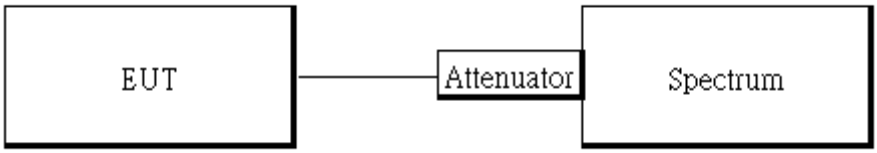
9.4 Test Set-up



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	**11.21**	13.213	23.98	PASS
44	5220	6	11.14	13.002	23.98	PASS
48	5240	6	11.16	13.062	23.98	PASS
52	5260	6	**11.18**	13.122	23.98 or 11+10log(B) = 24.38	PASS
60	5300	6	11.05	12.735	23.98 or 11+10log(B) = 24.38	PASS
64	5320	6	10.96	12.474	23.98 or 11+10log(B) = 24.40	PASS
100	5500	6	**11.04**	12.706	23.98 or 11+10log(B) = 24.38	PASS
116	5580	6	10.94	12.417	23.98 or 11+10log(B) = 24.40	PASS
140	5700	6	10.84	12.134	23.98 or 11+10log(B) = 24.44	PASS
144	5720(U-NII 2C)	6	9.54	9.00	23.98 or 11+10log(B) = 24.37	PASS
144	5720 (U-NII 3)	6	**5.22**	3.33	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	**11.25**	13.335	23.98	PASS
44	5220	MCS0	11.15	13.032	23.98	PASS
48	5240	MCS0	11.23	13.274	23.98	PASS
52	5260	MCS0	**11.19**	13.152	23.98 or 11+10log(B) = 24.47	PASS
60	5300	MCS0	11.18	13.122	23.98 or 11+10log(B) = 24.41	PASS
64	5320	MCS0	11.05	12.735	23.98 or 11+10log(B) = 24.41	PASS
100	5500	MCS0	11.00	12.589	23.98 or 11+10log(B) = 24.41	PASS
116	5580	MCS0	**11.03**	12.677	23.98 or 11+10log(B) = 24.51	PASS
140	5700	MCS0	10.87	12.218	23.98 or 11+10log(B) = 24.47	PASS
144	5720(U-NII 2C)	MCS0	**9.59**	9.09	23.98 or 11+10log(B) = 24.43	PASS
144	5720 (U-NII 3)	MCS0	**5.33**	3.41	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	**10.92**	12.359	23.98	PASS
46	5230	MCS0	10.89	12.274	23.98	PASS
54	5270	MCS0	**10.80**	12.023	23.98 or 11+10log(B) = 27.35	PASS
62	5310	MCS0	10.75	11.885	23.98 or 11+10log(B) = 27.34	PASS
102	5510	MCS0	10.65	11.614	23.98 or 11+10log(B) = 27.29	PASS
110	5550	MCS0	10.63	11.561	23.98 or 11+10log(B) = 27.23	PASS
134	5670	MCS0	**11.07**	12.794	23.98 or 11+10log(B) = 27.24	PASS
142	5710(U-NII 2C)	MCS0	**10.34**	10.81	23.98 or 11+10log(B) = 27.29	PASS
142	5710 (U-NII 3)	MCS0	**2.71**	1.87	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	**10.71**	11.776	23.98	PASS
58	5290	MCS0	**11.02**	12.647	23.98 or 11+10log(B) = 30.25	PASS
106	5530	MCS0	**11.04**	12.706	23.98 or 11+10log(B) = 30.19	PASS
122	5610	MCS0	11.00	12.589	23.98 or 11+10log(B) = 30.22	PASS
138	5690(U-NII 2C)	MCS0	**10.65**	11.61	23.98 or 11+10log(B) = 30.12	PASS
138	5690 (U-NII 3)	MCS0	**-0.47**	0.90	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.			

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

10.2 Measurement Procedure

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

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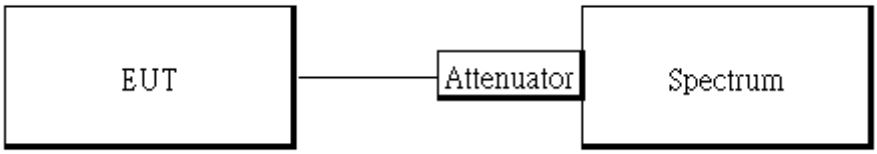
10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
Temperature Chamber	TERCHY	MHG-120LF	911009	May 17th, 2019	May 16th, 2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

10.4 Test Set-up



10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE_Ch0					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	1.32	-	1.32	11.00	-9.68
5220.00	0.80	-	0.80	11.00	-10.20
5240.00	0.50	-	0.50	11.00	-10.50
5260.00	0.69	-	0.69	11.00	-10.31
5300.00	0.14	-	0.14	11.00	-10.86
5320.00	0.21	-	0.21	11.00	-10.79
5500.00	0.38	-	0.38	11.00	-10.62
5580.00	0.85	-	0.85	11.00	-10.15
5700.00	0.82	-	0.82	11.00	-10.18
5720 (U-NII 2C)	0.65	-	0.65	11.00	-10.35
5720 (U-NII 3)	-2.16	-	-2.16	30.00	-32.16

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POWER DENSITY 802.11n HT20 MODE_Ch0					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	0.92	-	0.92	11	-10.08
5220	0.76	-	0.76	11	-10.24
5240	0.38	-	0.38	11	-10.62
5260	0.27	-	0.27	11	-10.73
5300	-0.17	-	-0.17	11	-11.17
5320	-0.17	-	-0.17	11	-11.17
5500	0.07	-	0.07	11	-10.93
5580	0.81	-	0.81	11	-10.19
5700	0.62	-	0.62	11	-10.38
5720 (U-NII 2C)	0.39	-	0.39	11	-10.61
5720 (U-NII 3)	-2.63	-	-2.63	30	-32.63

POWER DENSITY 802.11n HT40 MODE_Ch0					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-2.44	-	-2.44	11	-13.44
5230	-2.94	-	-2.94	11	-13.94
5270	-3.05	-	-3.05	11	-14.05
5310	-3.38	-	-3.38	11	-14.38
5510	-3.21	-	-3.21	11	-14.21
5550	-2.65	-	-2.65	11	-13.65
5670	-1.72	-	-1.72	11	-12.72
5710 (U-NII 2C)	-2.39	-	-2.39	11	-13.39
5710 (U-NII 3)	-7.06	-	-7.06	30	-37.06

POWER DENSITY 802.11ac VHT80 MODE_Ch0					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-5.95	0.18	-5.77	11	-16.77
5290	-5.80	0.18	-5.62	11	-16.62
5530	-5.57	0.18	-5.39	11	-16.39
5610	-5.35	0.18	-5.17	11	-16.17
5690 (U-NII 2C)	-5.34	0.18	-5.16	11	-16.16
5690 (U-NII 3)	-12.29	0.18	-12.11	30	-42.11

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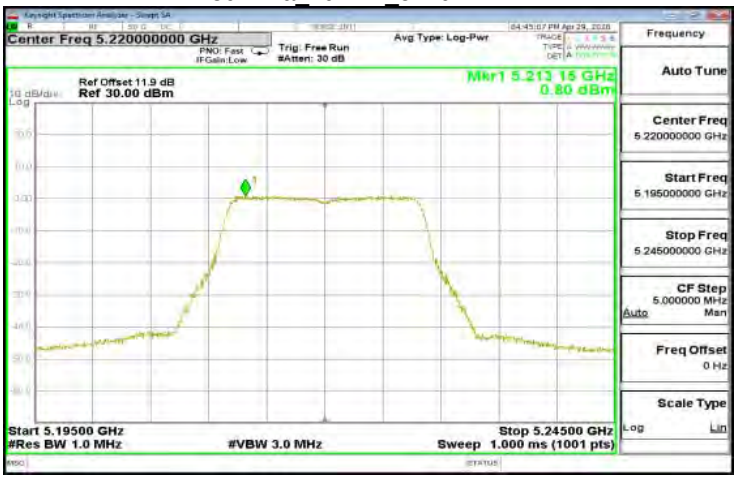
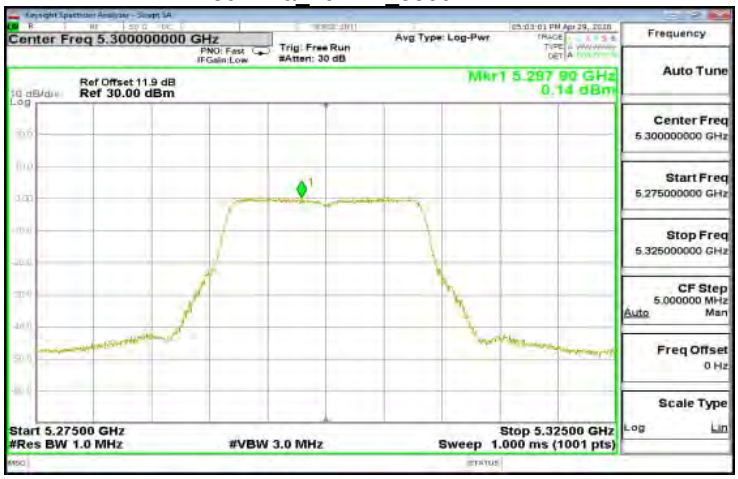
802.11a_20MHz_5180MHz

802.11a_20MHz_5260MHz

802.11a_20MHz_5220MHz

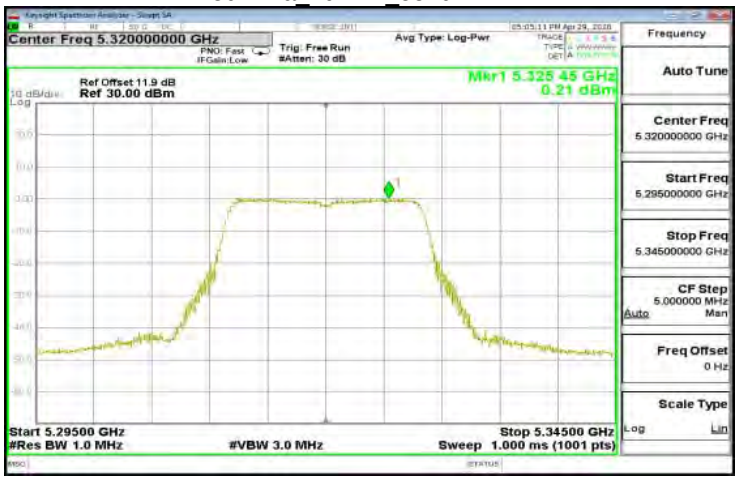


802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz

802.11a_20MHz_5320MHz



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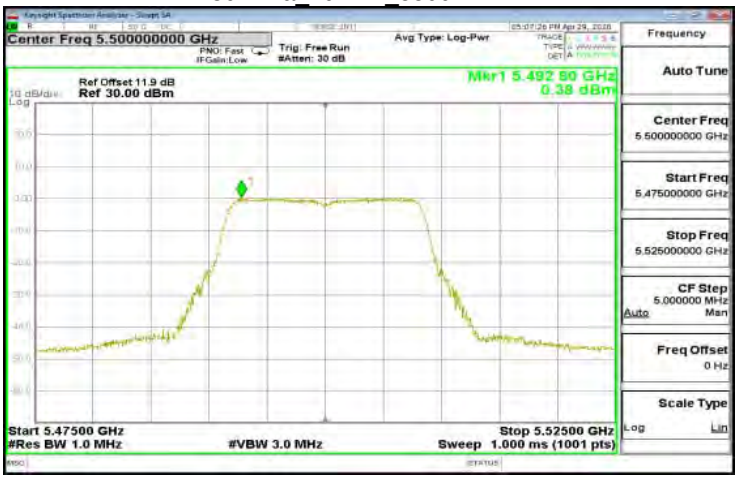
802.11a_20MHz_5500MHz



802.11a_20MHz_5720MHz_2C

802.11a_20MHz_5580MHz

802.11a_20MHz_5720MHz_3

802.11a_20MHz_5700MHz

802.11n_20MHz_5180MHz

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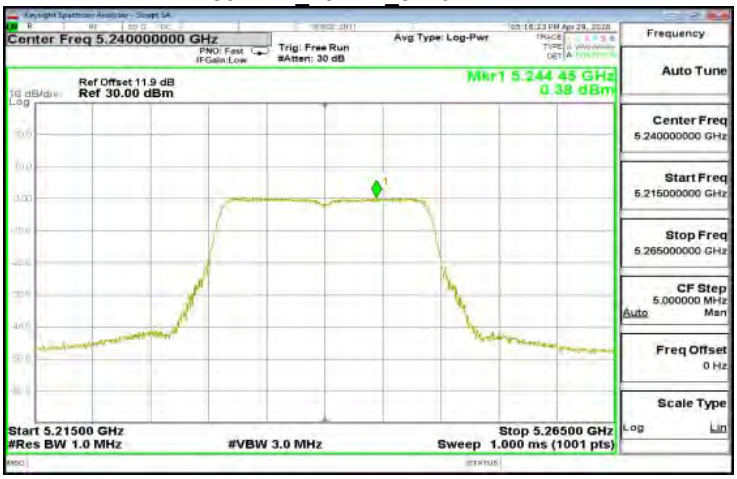
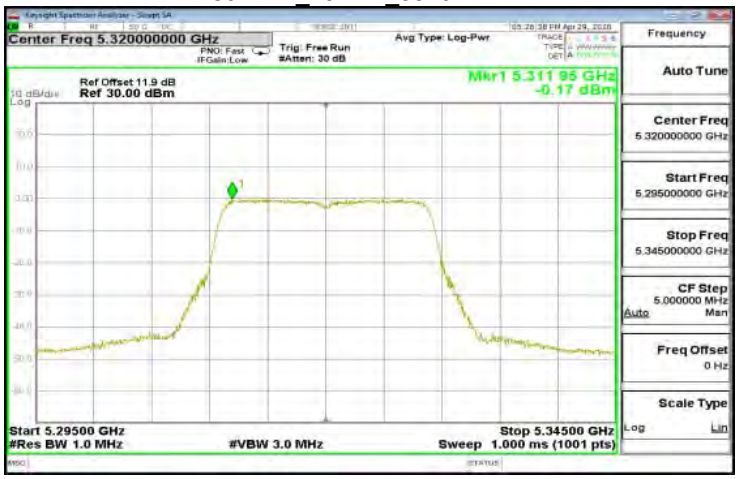
802.11n_20MHz_5220MHz

802.11n_20MHz_5300MHz

802.11n_20MHz_5240MHz

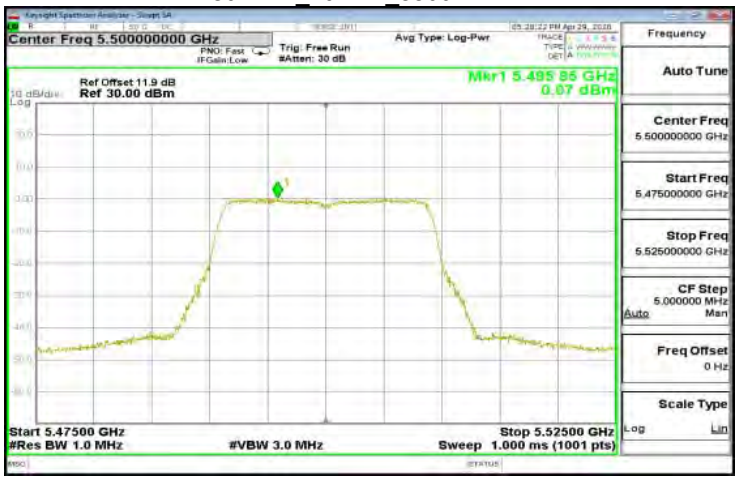


802.11n_20MHz_5320MHz



802.11n_20MHz_5260MHz

802.11n_20MHz_5500MHz



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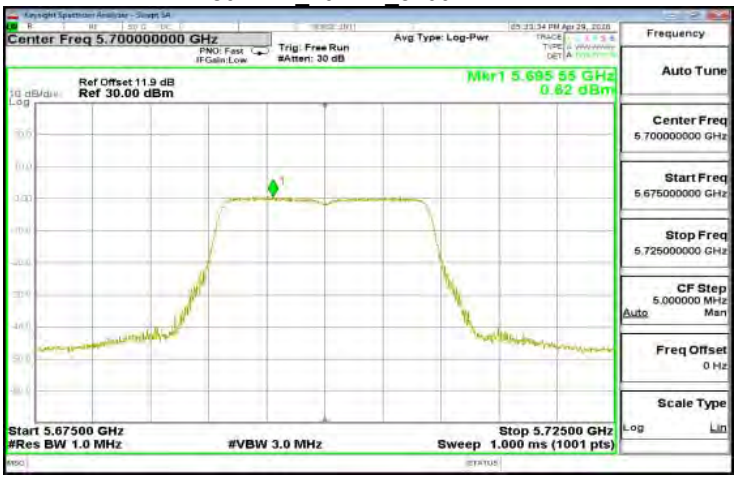
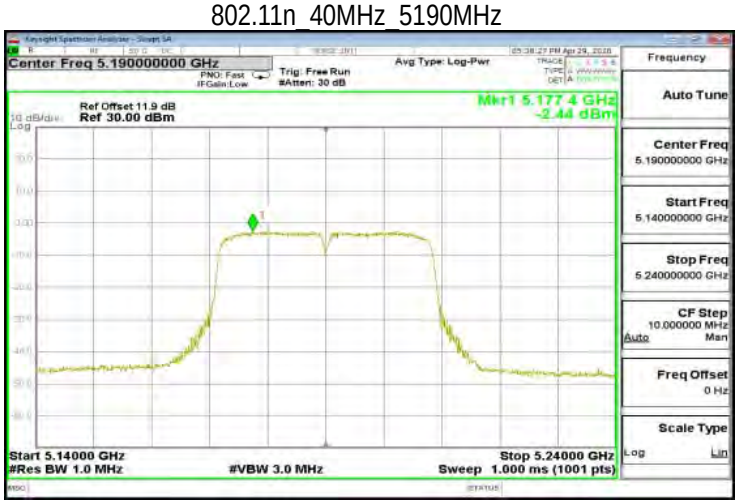
802.11n_20MHz_5580MHz

802.11n_20MHz_5720MHz_3

802.11n_20MHz_5700MHz

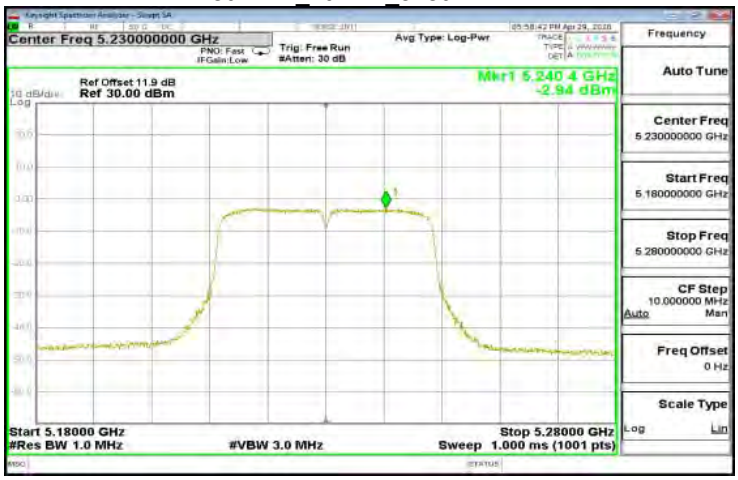


802.11n_40MHz_5190MHz



802.11n_20MHz_5720MHz_2C

802.11n_40MHz_5230MHz



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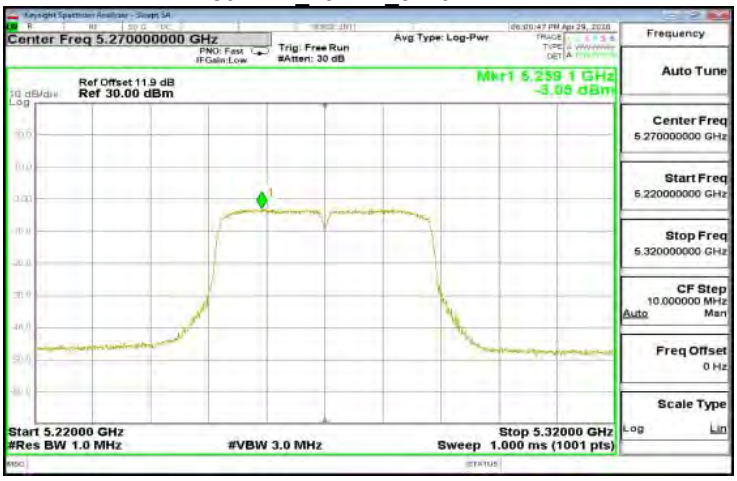
802.11n_40MHz_5270MHz



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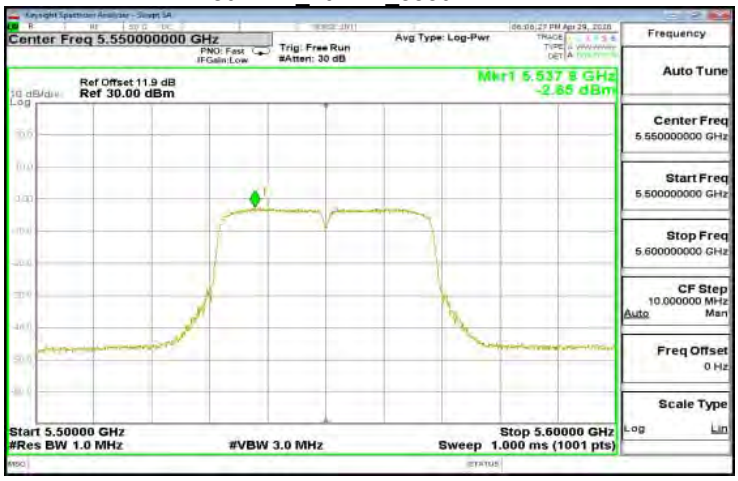

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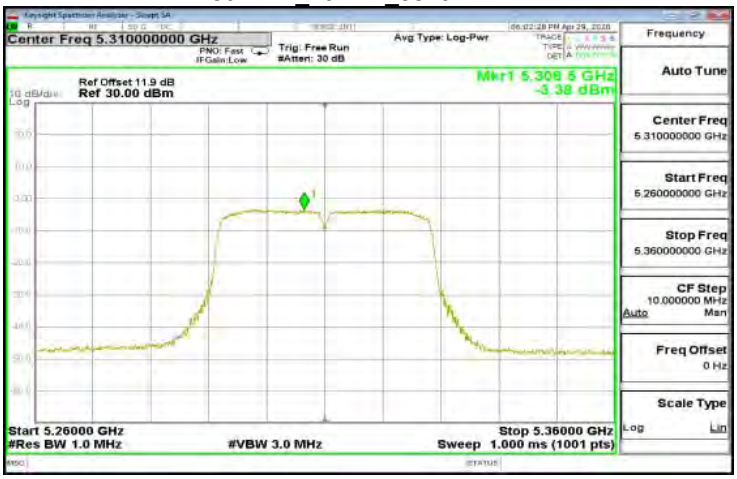

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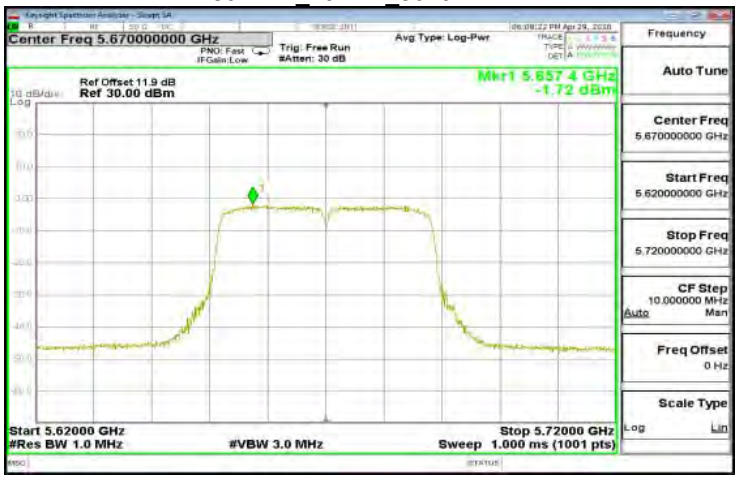

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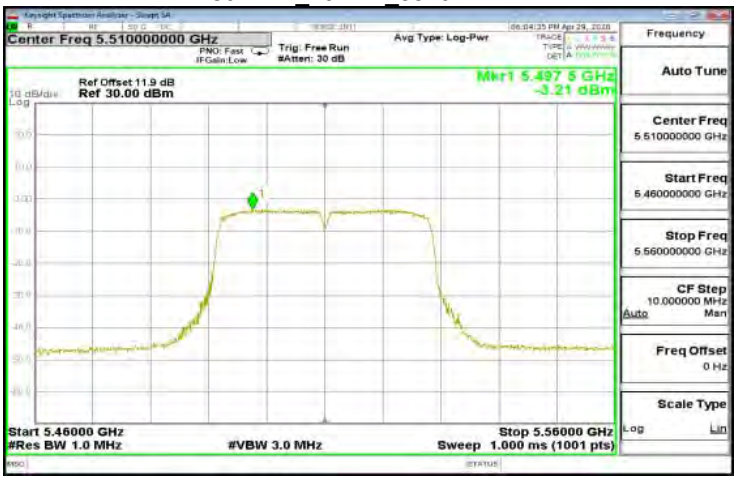

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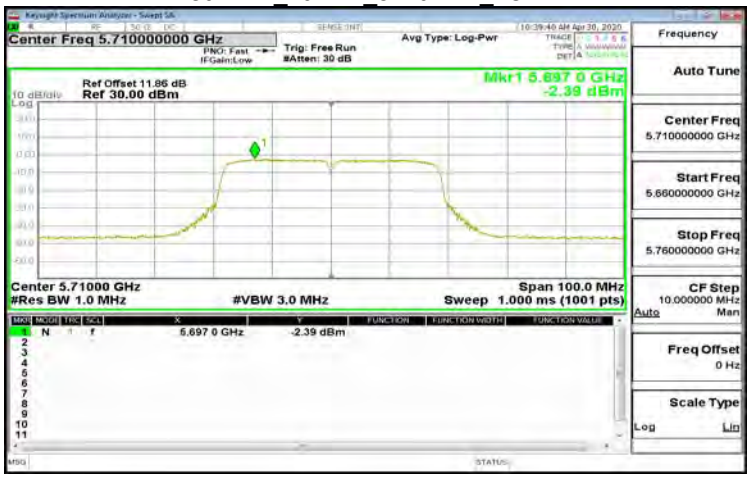

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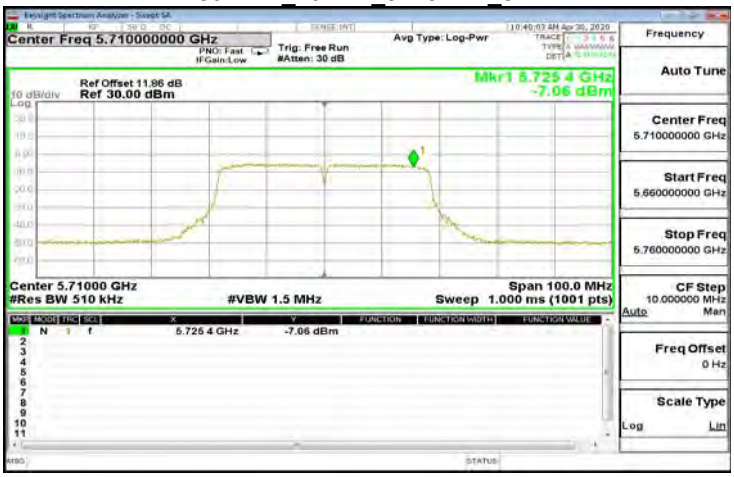
802.11n_40MHz_5710MHz_3



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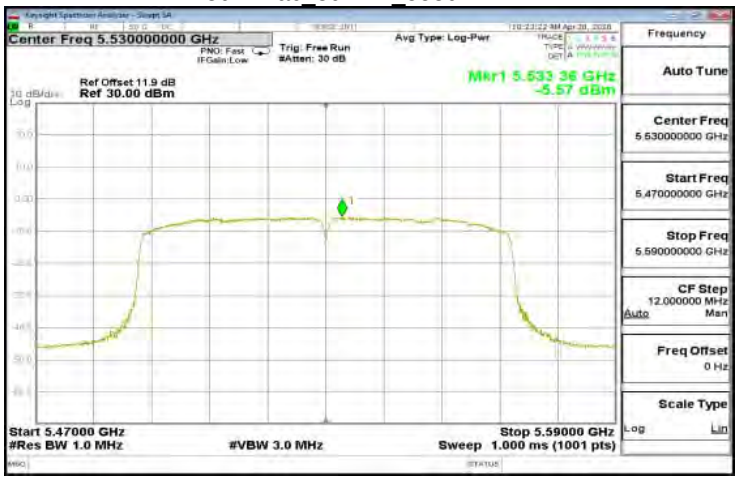
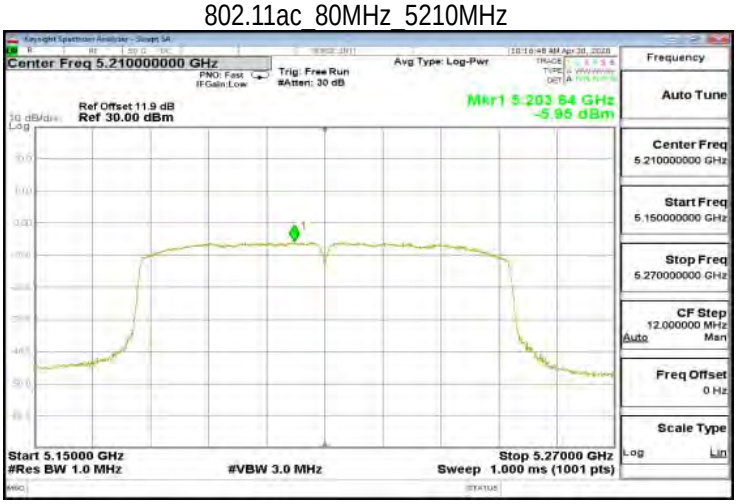
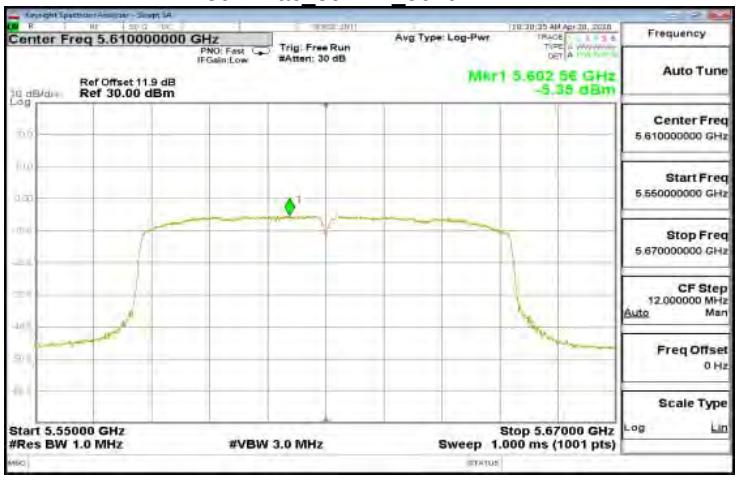


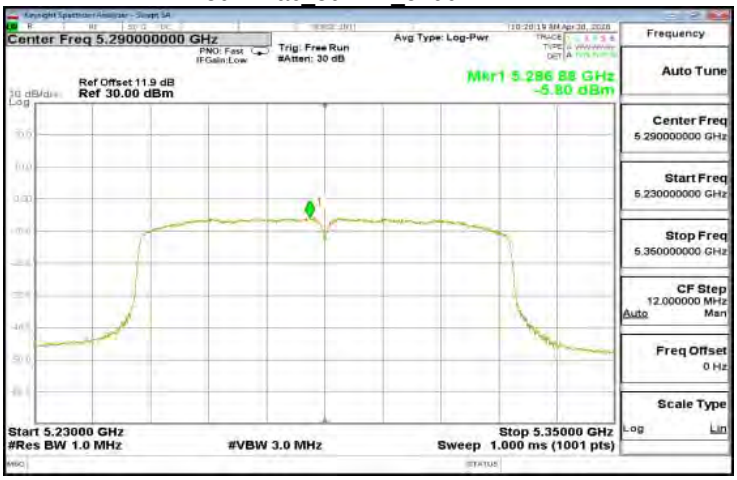
802.11ac_80MHz_5210MHz



802.11ac_80MHz_5610MHz



802.11ac_80MHz_5290MHz



802.11ac_80MHz_5690MHz_2C

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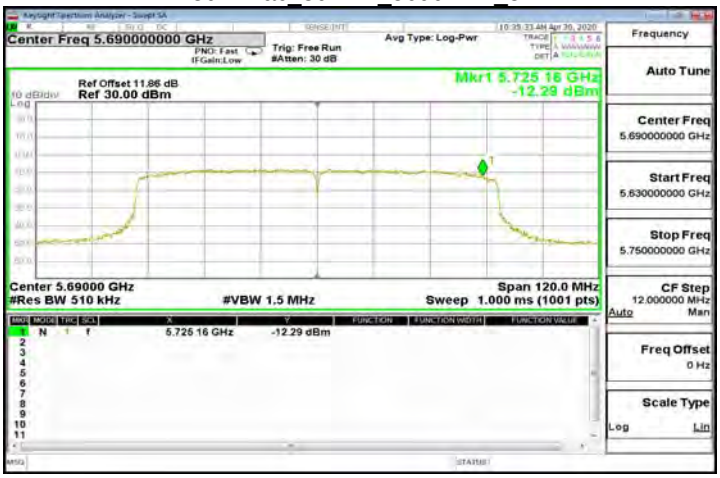
802.11ac_80MHz_5690MHz_3



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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*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					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Horn Antenna	Schwarzbeck	BBHA9170	184	Dec. 25th, 2019	Dec. 24th, 2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	Dec. 20th, 2019	Dec. 19th, 2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	Jan. 13th, 2020	Jan. 12th, 2021
Loop Antenna	ETS.LINDGREN	6502	148045	Oct. 15th, 2019	Oct. 14th, 2020
Spectrum Analyzer	Agilent	E4446A	MY51100003	Oct. 23th, 2019	Oct. 22nd, 2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	Jul. 4th, 2019	Jul. 3rd, 2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	HP	8447D	2944A09469	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	4	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	Jan. 2nd, 2020	Jan. 1st, 2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	Jan. 2nd, 2020	Jan. 1st, 2021

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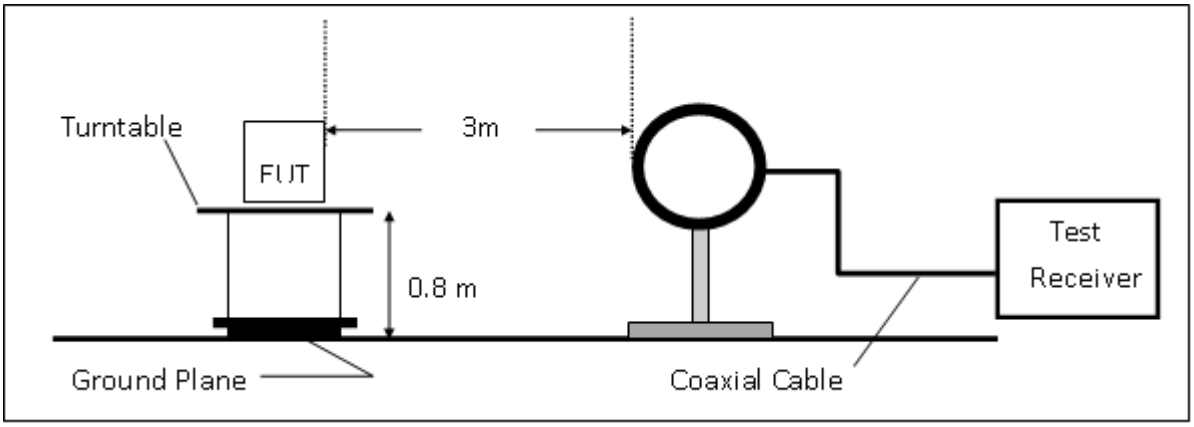
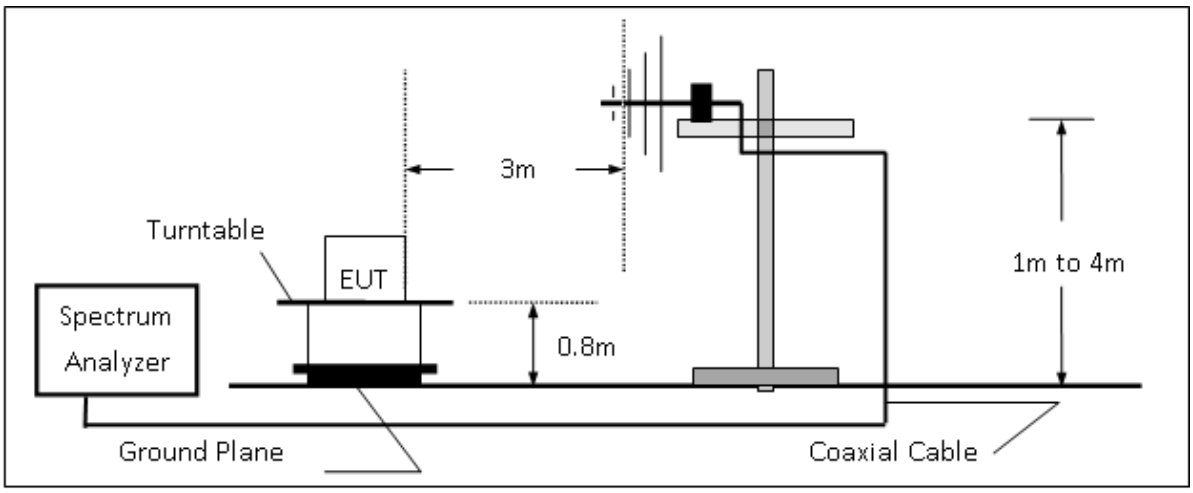
11.3 Test SET-UP

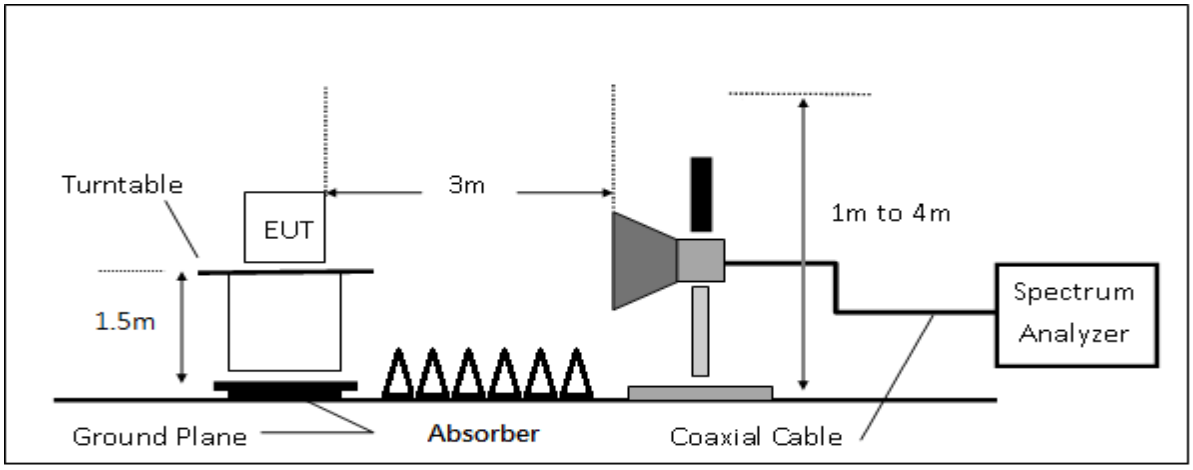
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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*
RA = Reading Amplitude
AF = Antenna Factor
CL = Cable Attenuation Factor (Cable Loss)
AG = Amplifier Gain

*The limit of the emission level is expressed in dBuV/m, which converts 20*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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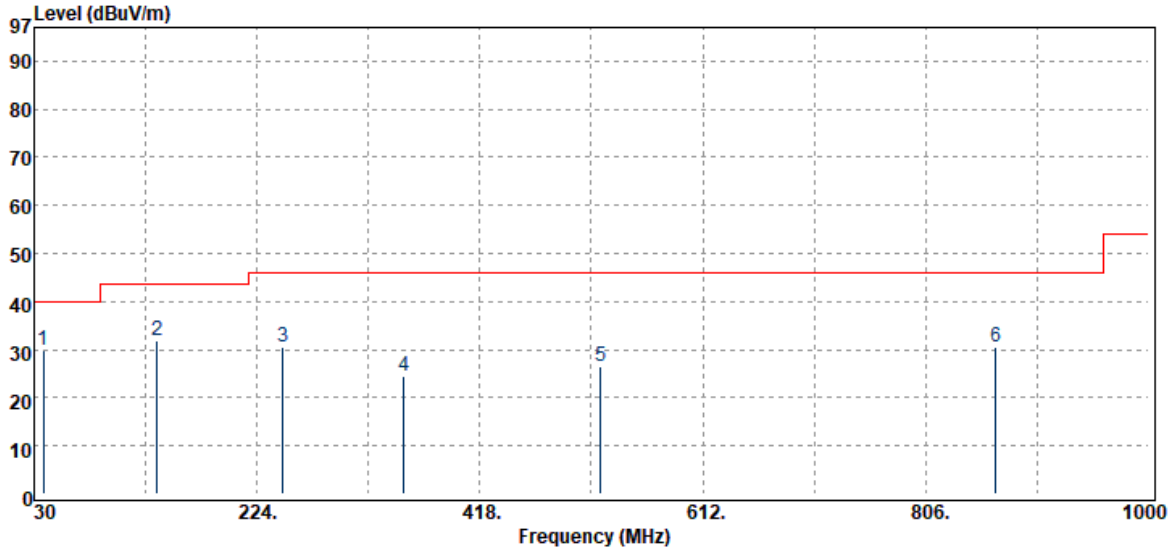
11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER/2020/40011	Test Date	:2020-04-27
Operation Mode	:802.11a B1	Temp./Humi.	:22.4/70
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	38.65	-8.79	29.86	40.00	-10.14
136.70	Peak	43.53	-11.48	32.05	43.50	-11.45
246.31	Peak	40.29	-9.64	30.65	46.00	-15.35
352.04	Peak	31.90	-7.28	24.62	46.00	-21.38
522.76	Peak	31.26	-4.75	26.51	46.00	-19.49
867.11	Peak	30.41	0.23	30.64	46.00	-15.36

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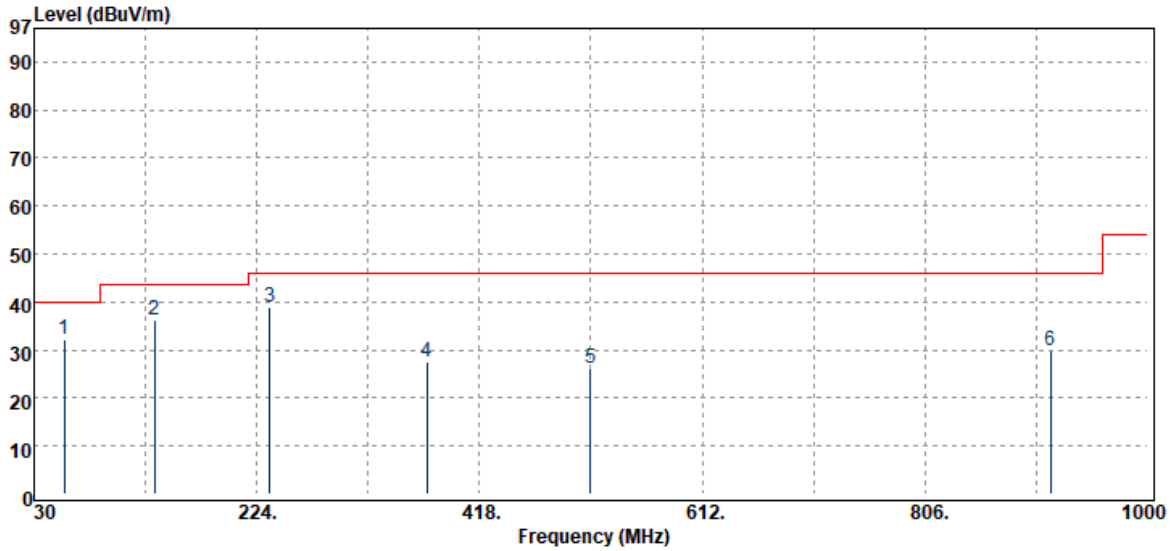
Report Number	:ER/2020/40011	Test Date	:2020-04-27
Operation Mode	:802.11a B1	Temp./Humi.	:22.4/70
Test Frequency	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	48.88	-16.52	32.36	40.00	-7.64
134.76	Peak	47.64	-11.36	36.28	43.50	-7.22
235.64	Peak	49.54	-10.52	39.02	46.00	-6.98
372.41	Peak	34.35	-6.91	27.44	46.00	-18.56
515.00	Peak	30.84	-4.67	26.17	46.00	-19.83
915.61	Peak	29.27	0.74	30.01	46.00	-15.99

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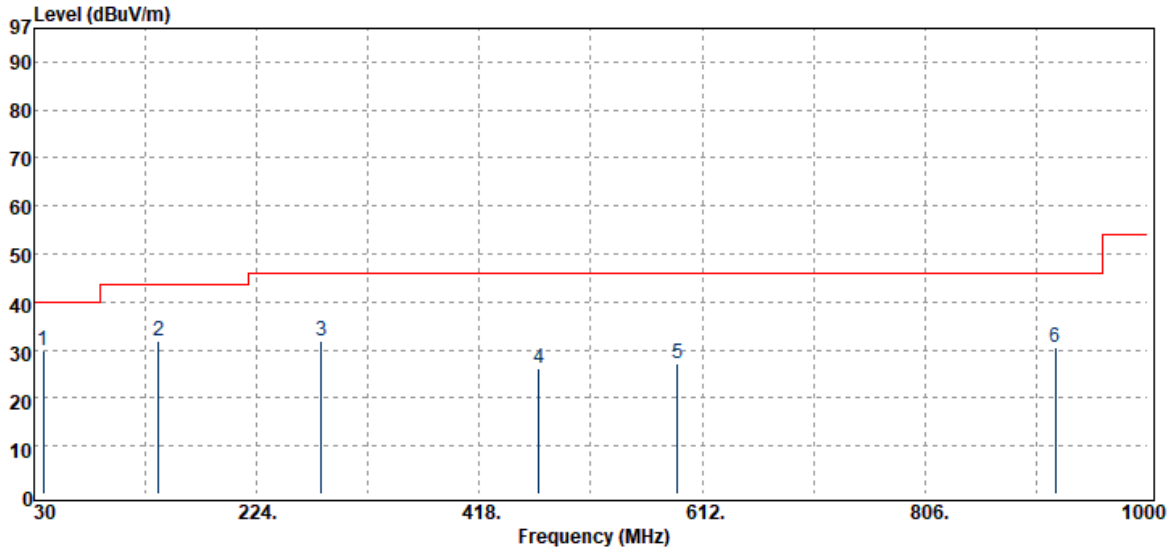
Report Number	:ER/2020/40011	Test Date	:2020-04-27
Operation Mode	:802.11a B2	Temp./Humi.	:22.4/70
Test Frequency	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	38.82	-8.79	30.03	40.00	-9.97
138.64	Peak	43.60	-11.58	32.02	43.50	-11.48
280.26	Peak	40.83	-8.81	32.02	46.00	-13.98
469.41	Peak	31.54	-5.52	26.02	46.00	-19.98
590.66	Peak	30.93	-3.60	27.33	46.00	-18.67
919.49	Peak	29.78	0.70	30.48	46.00	-15.52

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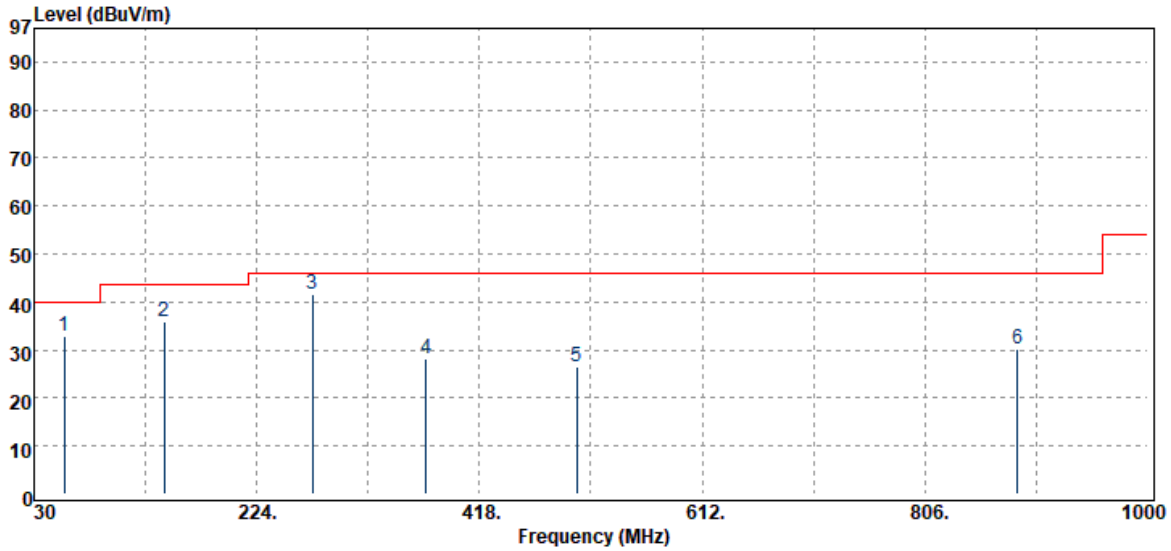
Report Number	:ER/2020/40011	Test Date	:2020-04-27
Operation Mode	:802.11a B2	Temp./Humi.	:22.4/70
Test Frequency	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	49.41	-16.52	32.89	40.00	-7.11
143.49	Peak	47.70	-11.85	35.85	43.50	-7.65
272.50	Peak	50.56	-8.82	41.74	46.00	-4.26
371.44	Peak	34.97	-6.90	28.07	46.00	-17.93
502.39	Peak	31.49	-5.00	26.49	46.00	-19.51
886.51	Peak	29.43	0.87	30.30	46.00	-15.70

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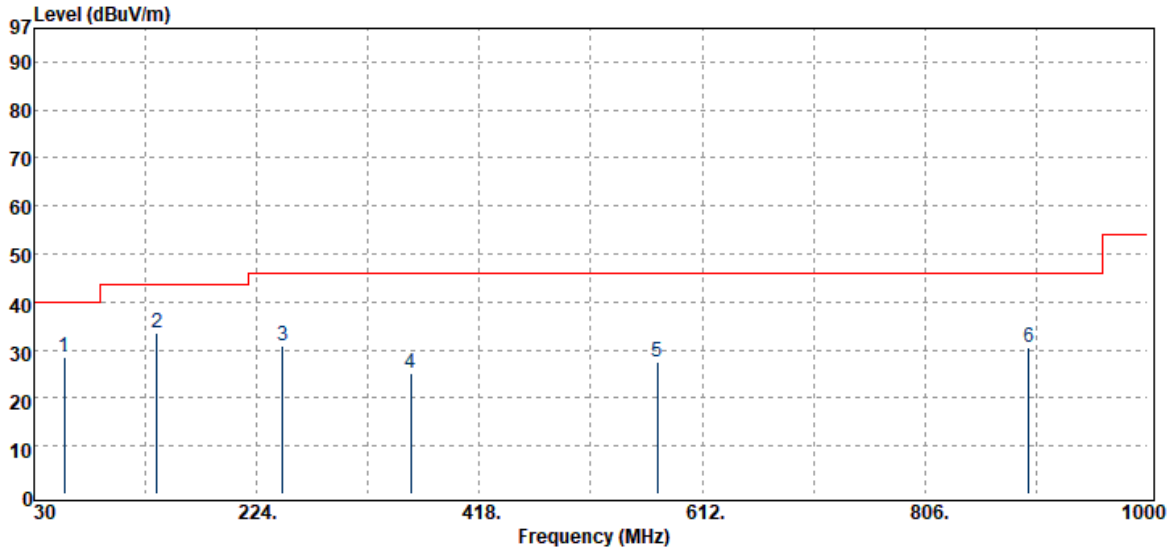
Report Number	:ER/2020/40011	Test Date	:2020-04-27
Operation Mode	:802.11a B3	Temp./Humi.	:22.4/70
Test Frequency	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
56.19	Peak	45.16	-16.52	28.64	40.00	-11.36
136.70	Peak	44.95	-11.48	33.47	43.50	-10.03
246.31	Peak	40.60	-9.64	30.96	46.00	-15.04
357.86	Peak	32.04	-6.92	25.12	46.00	-20.88
573.20	Peak	32.01	-4.51	27.50	46.00	-18.50
896.21	Peak	29.49	1.18	30.67	46.00	-15.33

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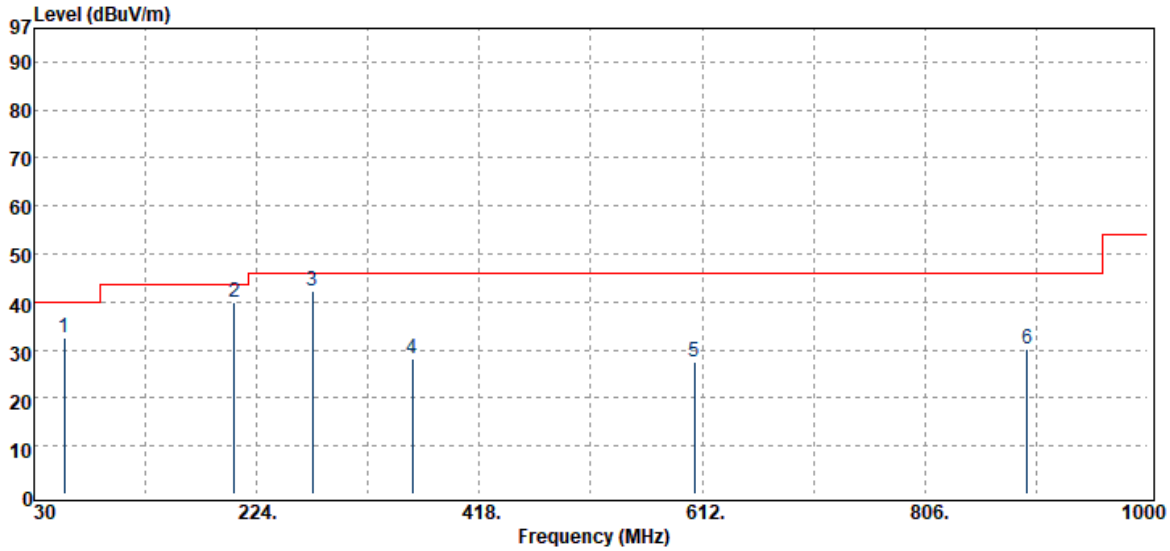
Report Number	:ER/2020/40011	Test Date	:2020-04-27
Operation Mode	:802.11a B3	Temp./Humi.	:22.4/70
Test Frequency	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
56.19	Peak	49.02	-16.52	32.50	40.00	-7.50
204.60	Peak	51.98	-12.07	39.91	43.50	-3.59
272.50	Peak	51.25	-8.82	42.43	46.00	-3.57
359.80	Peak	35.03	-6.82	28.21	46.00	-17.79
605.21	Peak	30.77	-3.30	27.47	46.00	-18.53
895.24	Peak	28.96	1.19	30.15	46.00	-15.85

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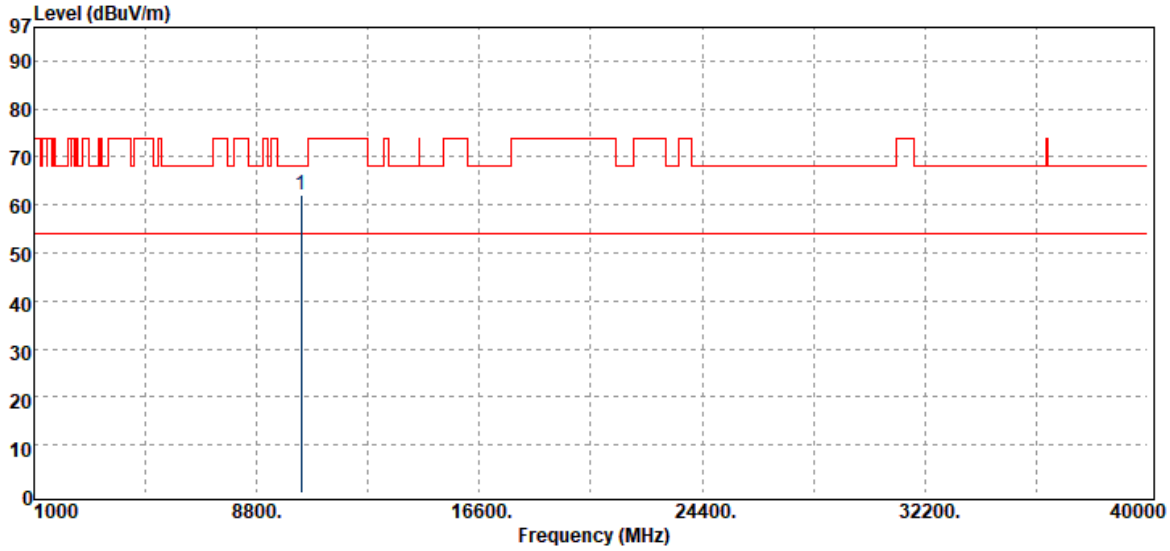
11.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	35.71	26.38	62.09	68.20	-6.11

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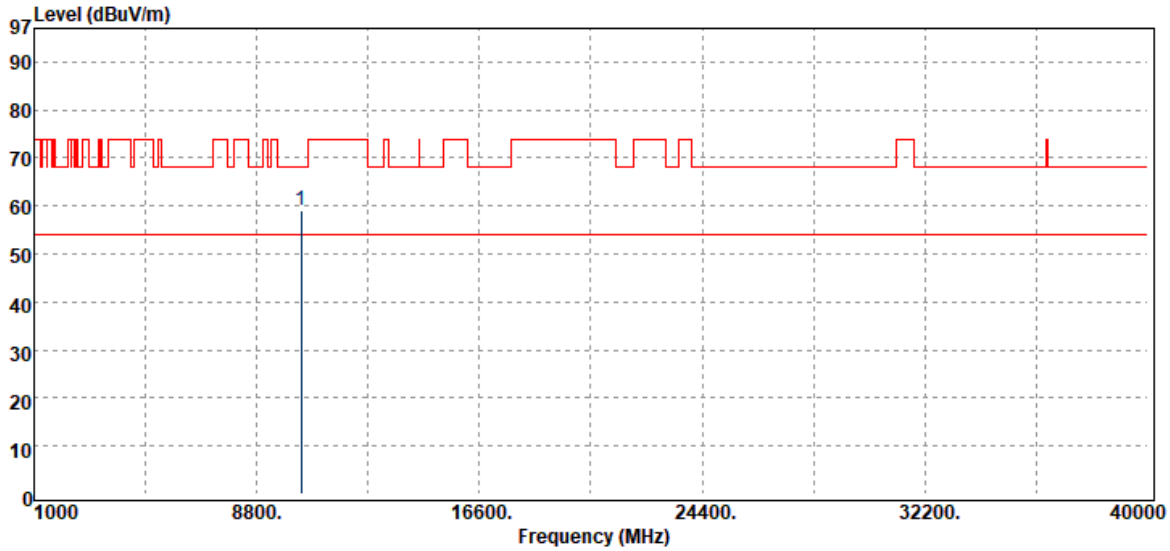
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	32.65	26.38	59.03	68.20	-9.17

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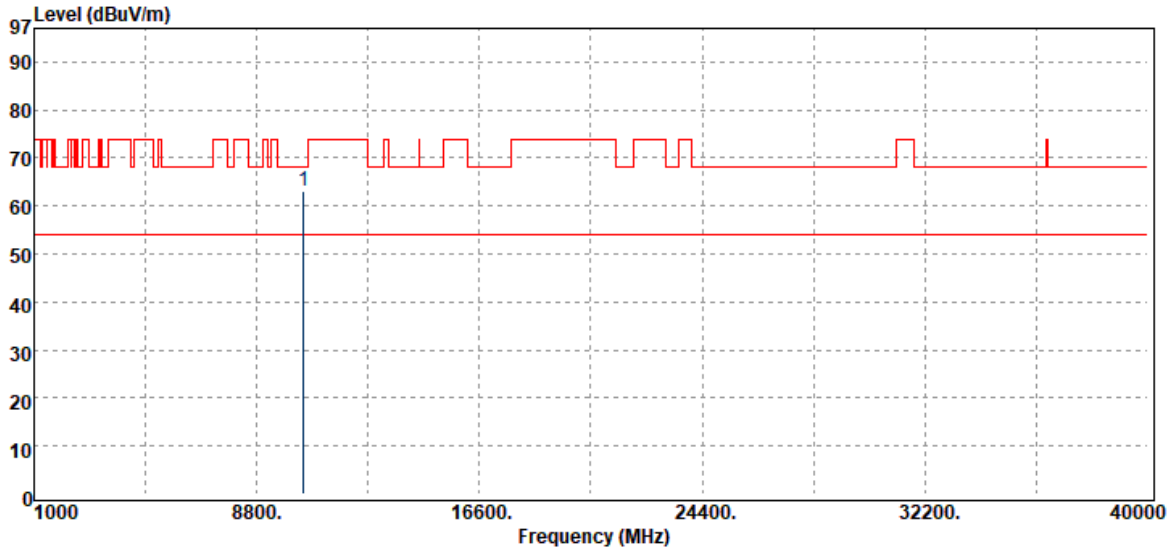
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	36.39	26.76	63.15	68.20	-5.05

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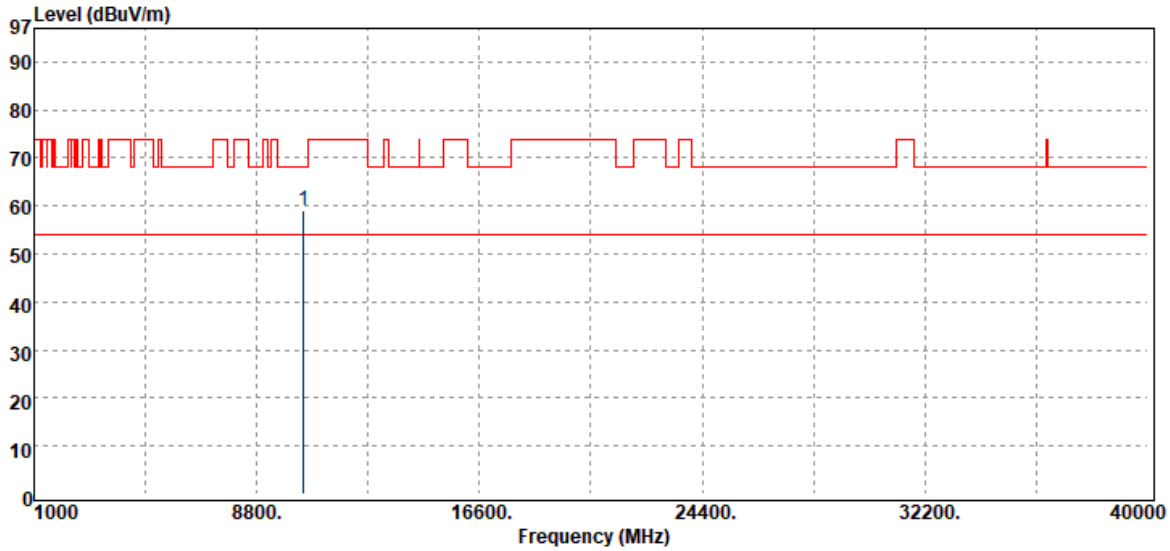
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	32.37	26.76	59.13	68.20	-9.07

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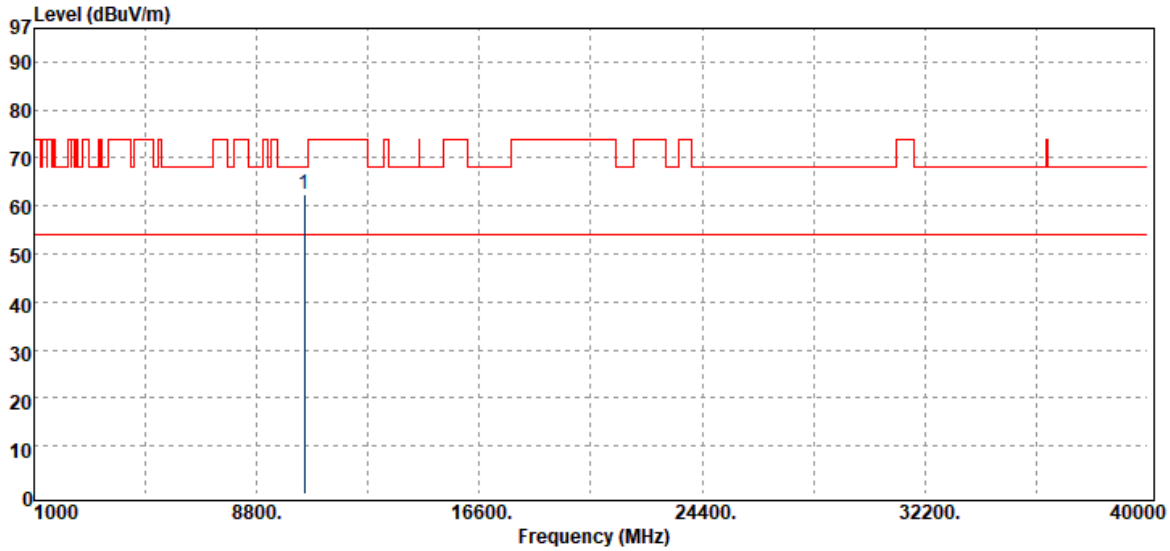
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5240 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	35.99	26.40	62.39	68.20	-5.81

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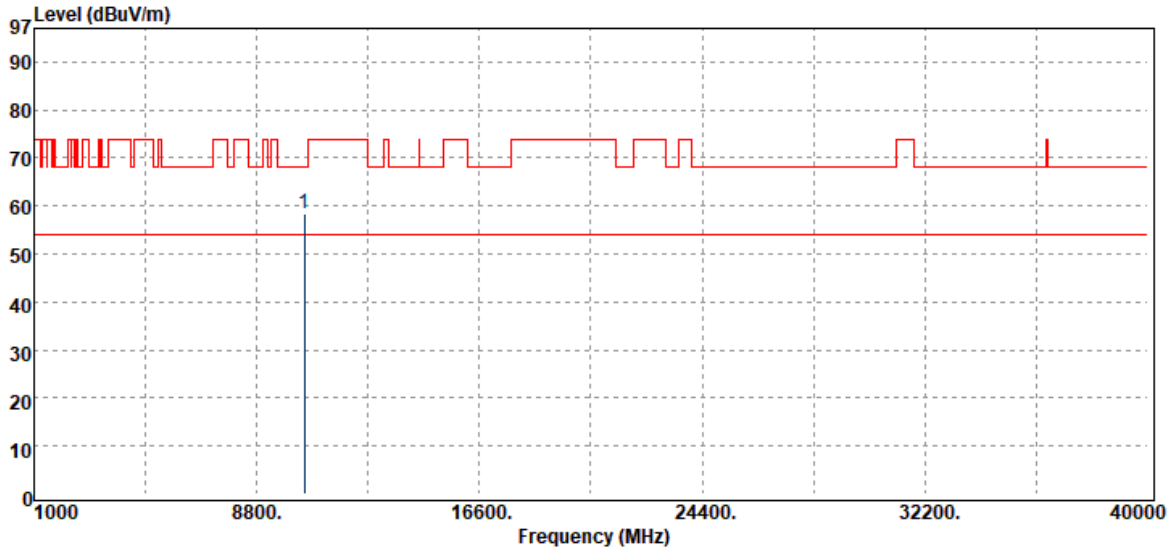
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5240 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	32.00	26.40	58.40	68.20	-9.80

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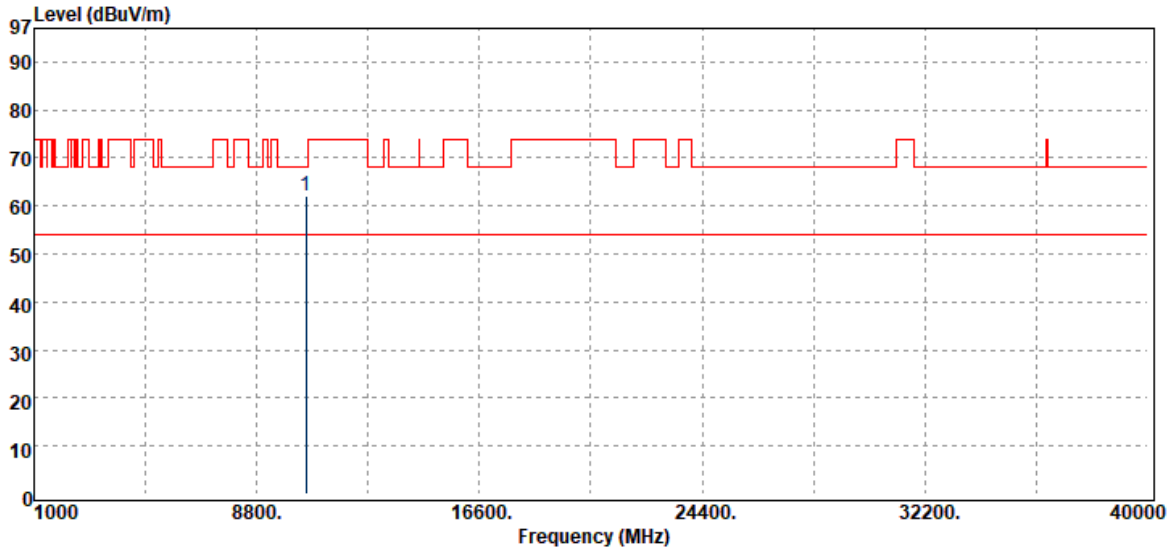
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	35.79	26.32	62.11	68.20	-6.09

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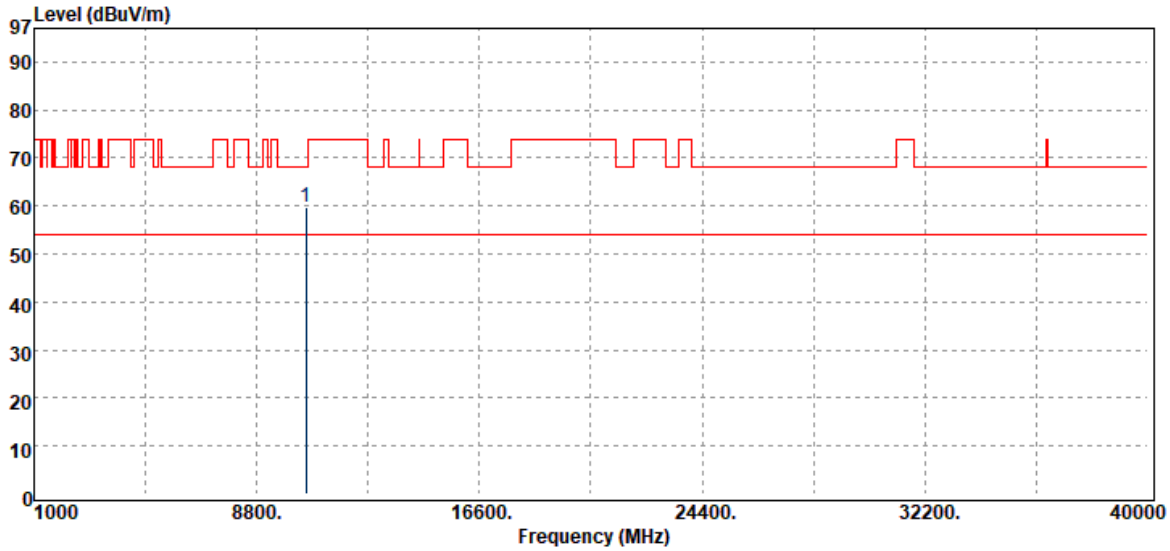
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	33.27	26.32	59.59	68.20	-8.61

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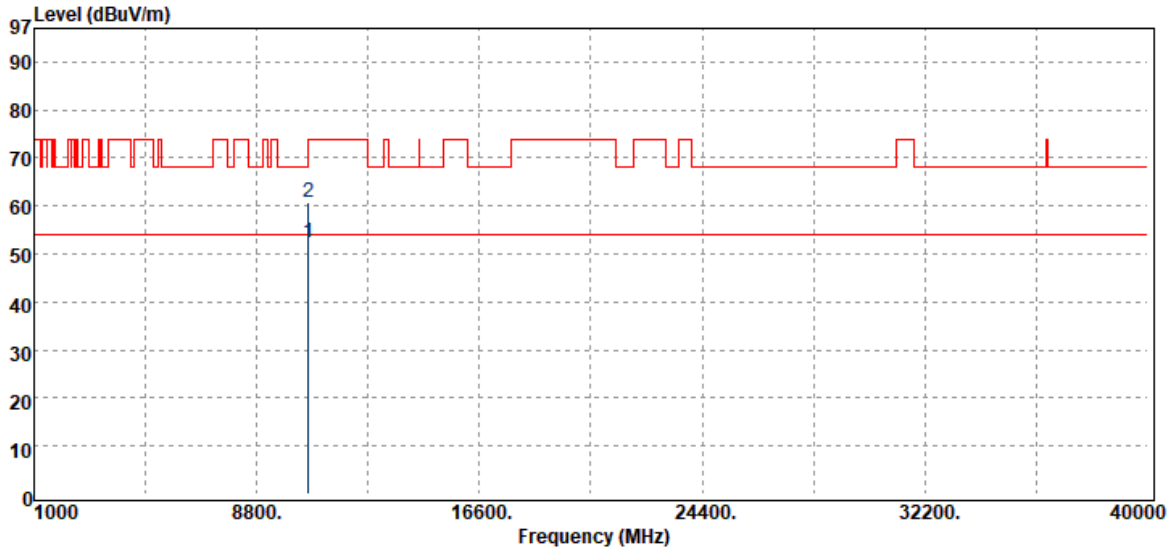
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	Average	25.58	26.78	52.36	54.00	-1.64
10600.00	Peak	33.94	26.78	60.72	74.00	-13.28

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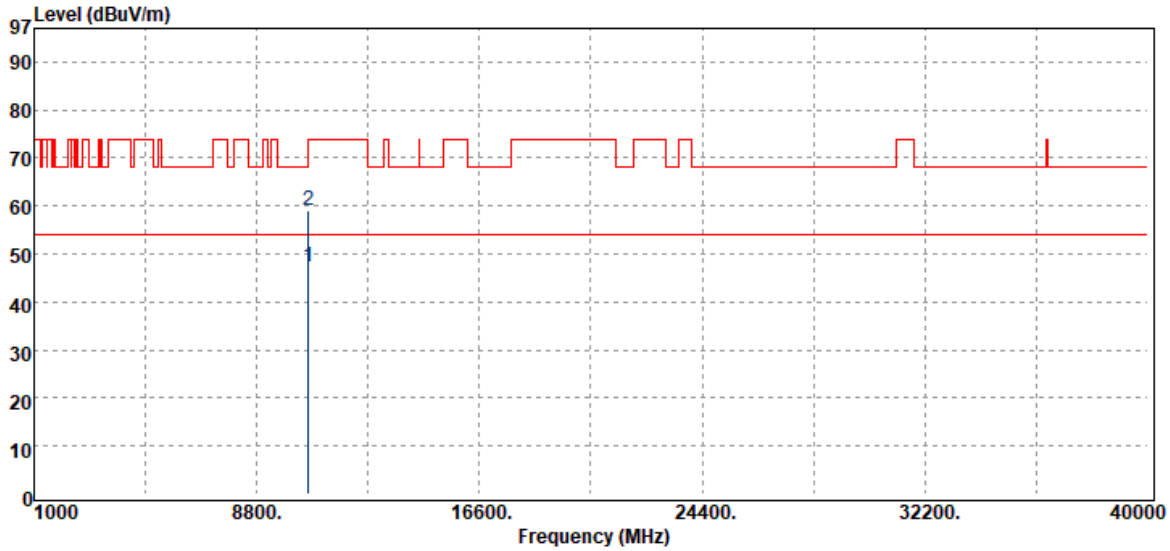
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	Average	20.63	26.78	47.41	54.00	-6.59
10600.00	Peak	32.39	26.78	59.17	74.00	-14.83

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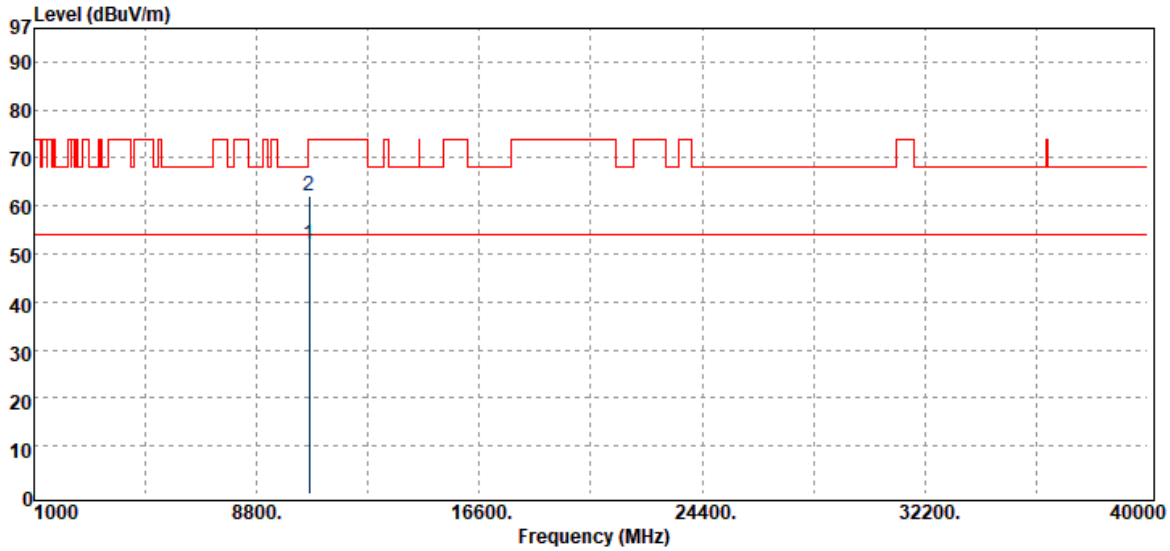
Report Number	:ER/2020/40011	Test Date	:2020-05-08
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	25.63	26.51	52.14	54.00	-1.86
10640.00	Peak	35.54	26.51	62.05	74.00	-11.95

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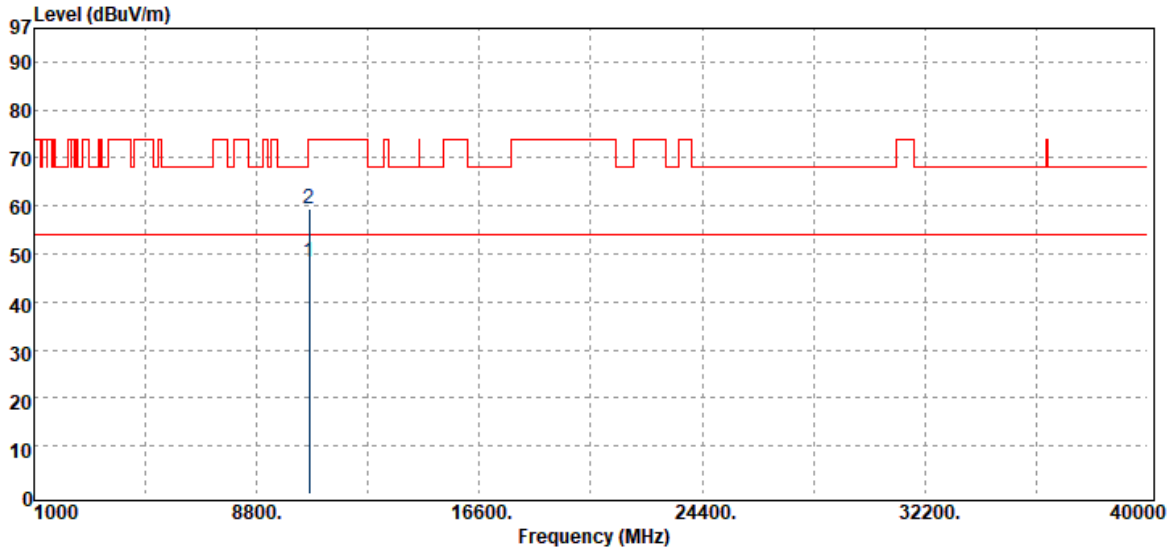
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	21.83	26.51	48.34	54.00	-5.66
10640.00	Peak	32.80	26.51	59.31	74.00	-14.69

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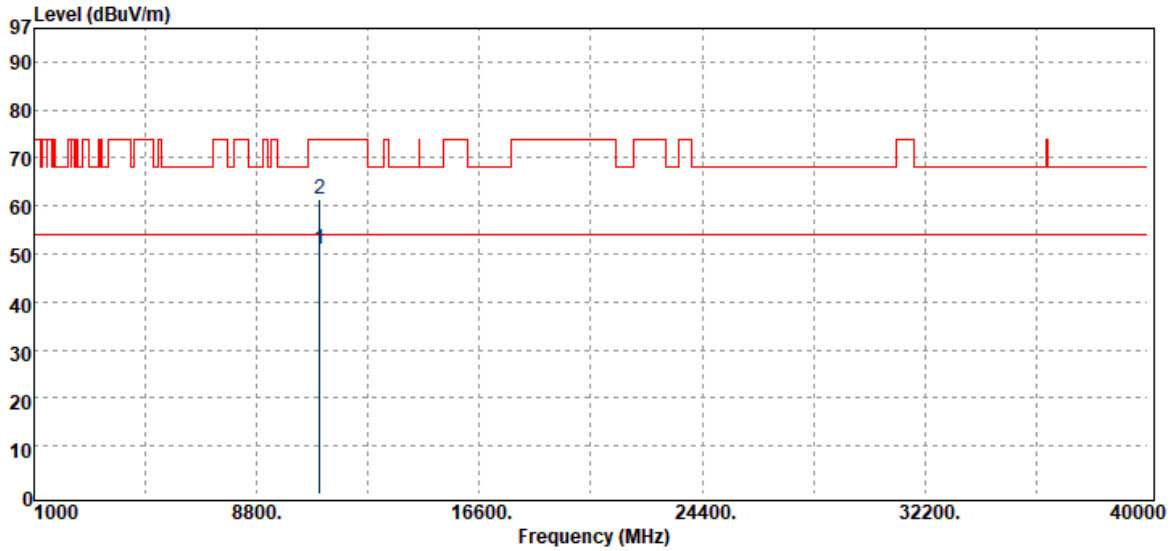
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/65
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	23.70	27.32	51.02	54.00	-2.98
11000.00	Peak	34.17	27.32	61.49	74.00	-12.51

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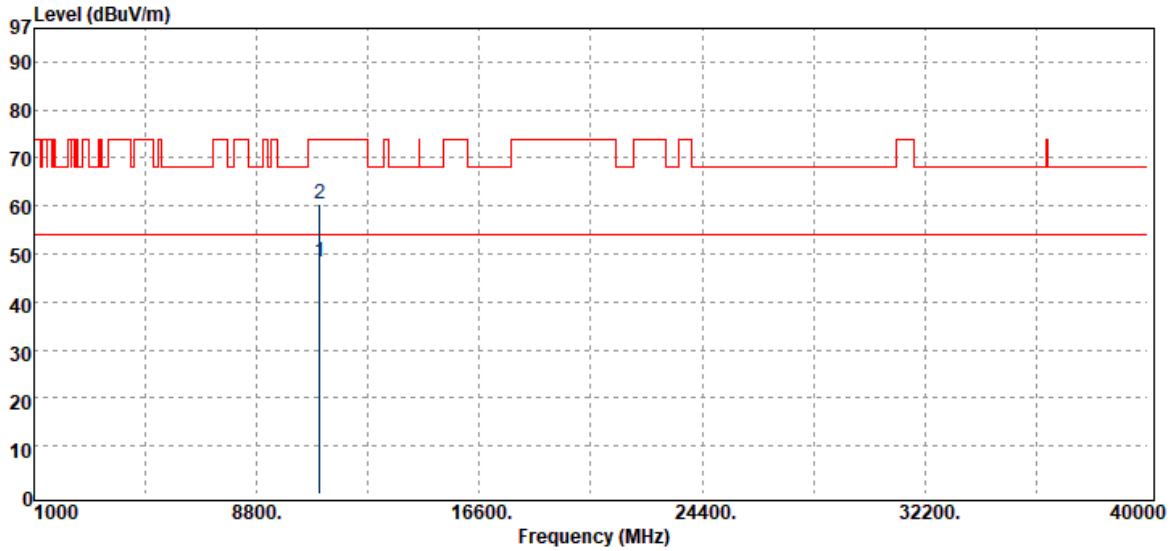
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/65
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	20.92	27.32	48.24	54.00	-5.76
11000.00	Peak	33.13	27.32	60.45	74.00	-13.55

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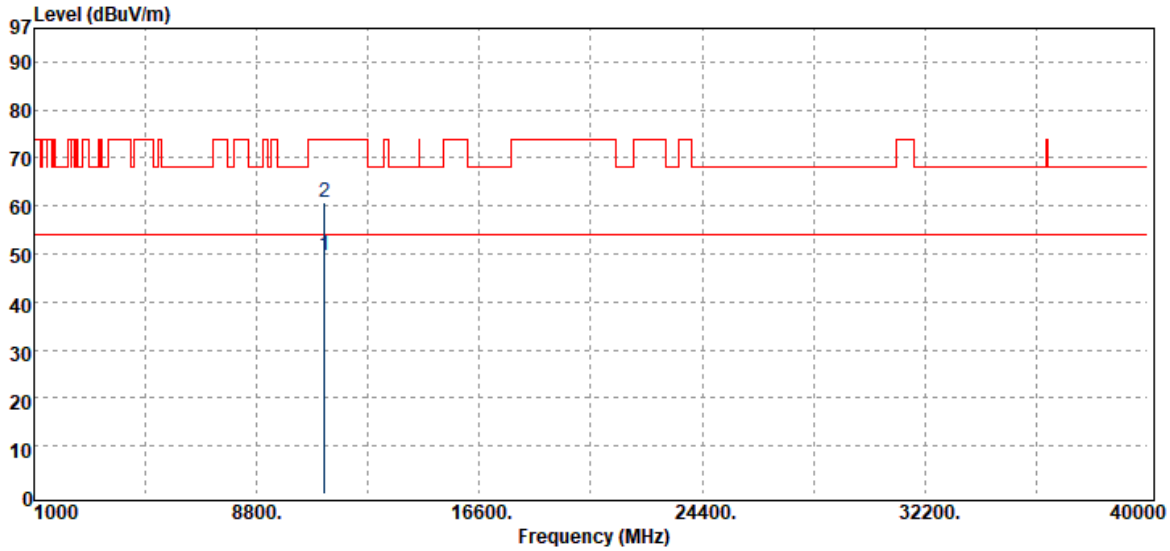
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/65
Test Frequency	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Average	22.76	26.98	49.74	54.00	-4.26
11160.00	Peak	33.90	26.98	60.88	74.00	-13.12

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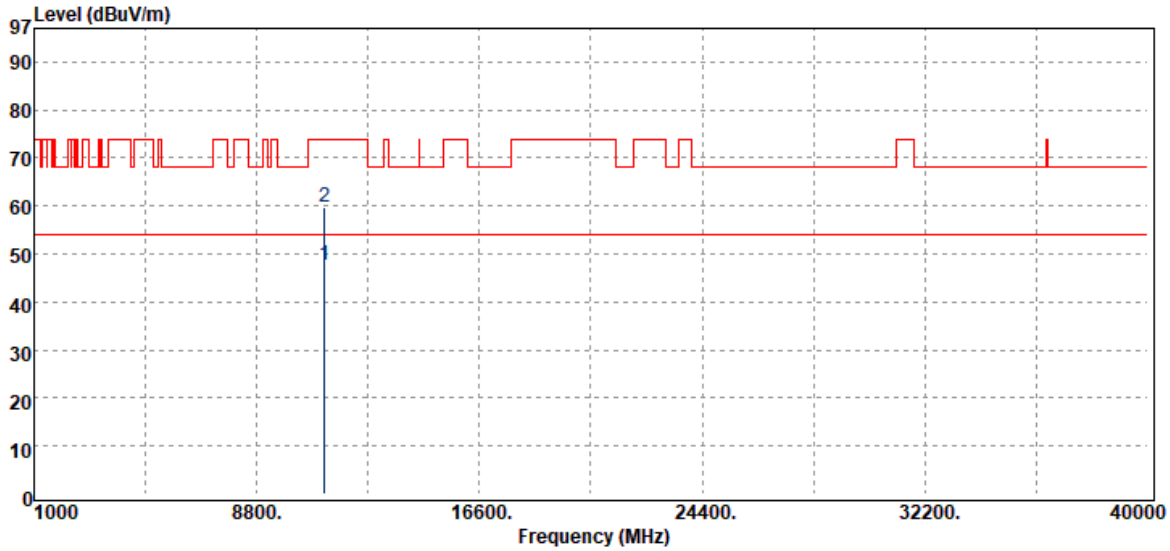
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/65
Test Frequency	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Average	20.79	26.98	47.77	54.00	-6.23
11160.00	Peak	32.81	26.98	59.79	74.00	-14.21

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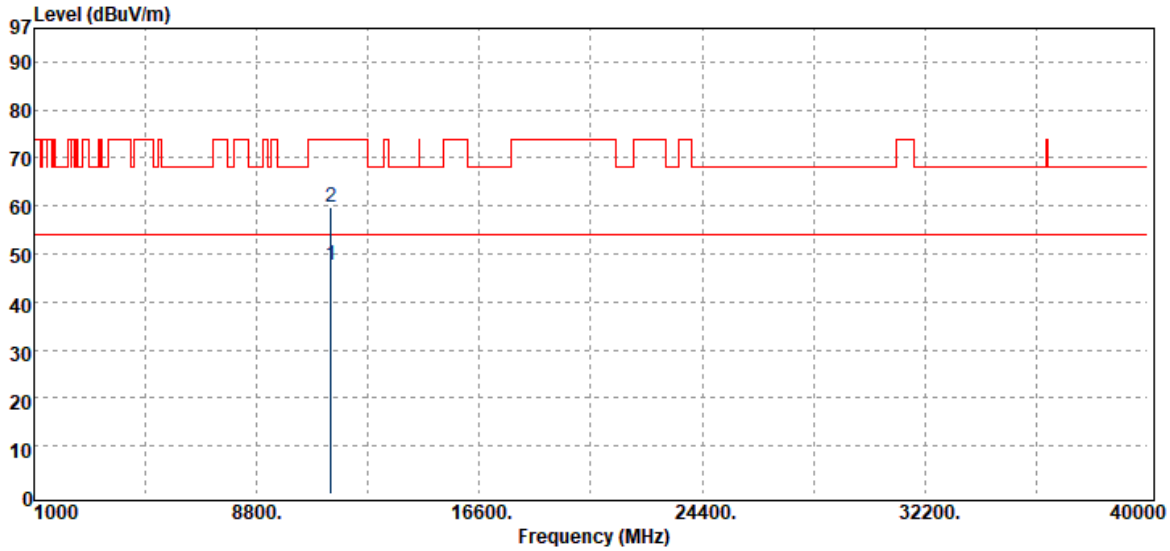
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/65
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Average	20.24	27.54	47.78	54.00	-6.22
11400.00	Peak	32.18	27.54	59.72	74.00	-14.28

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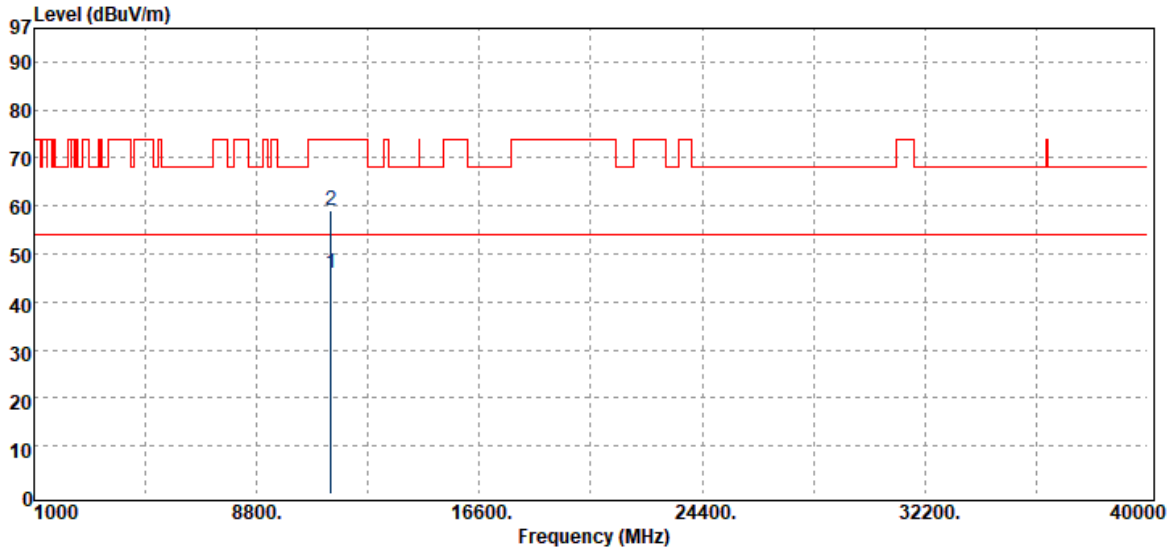
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/65
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Average	18.53	27.54	46.07	54.00	-7.93
11400.00	Peak	31.65	27.54	59.19	74.00	-14.81

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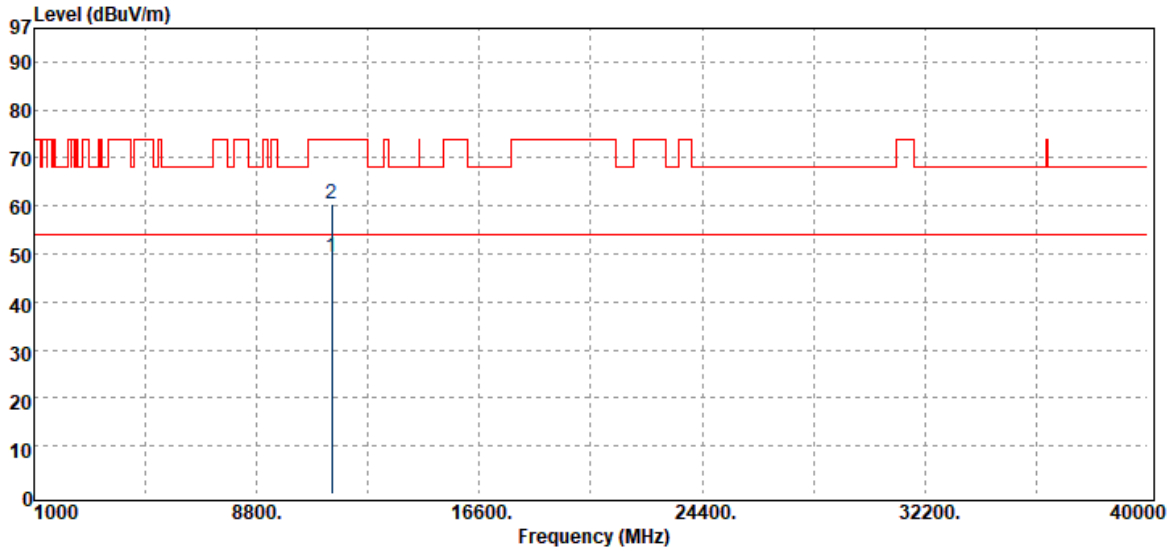
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3-B4	Temp./Humi.	:21.1/65
Test Frequency	:5720 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	21.51	27.76	49.27	54.00	-4.73
11440.00	Peak	32.54	27.76	60.30	74.00	-13.70

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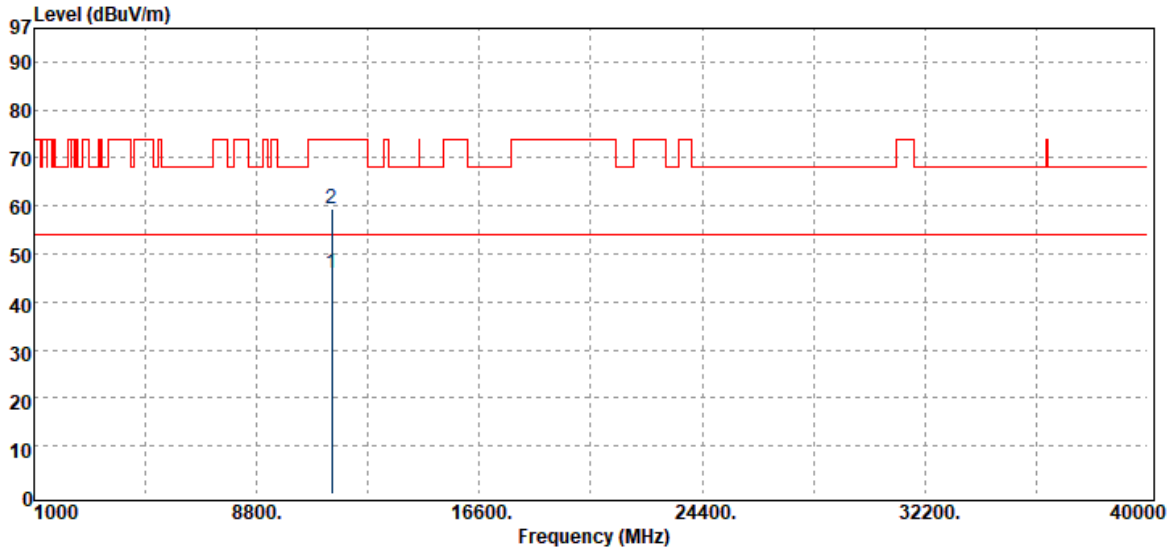
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11aB3-B4	Temp./Humi.	:21.1/65
Test Frequency	:5720 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	18.21	27.76	45.97	54.00	-8.03
11440.00	Peak	31.65	27.76	59.41	74.00	-14.59

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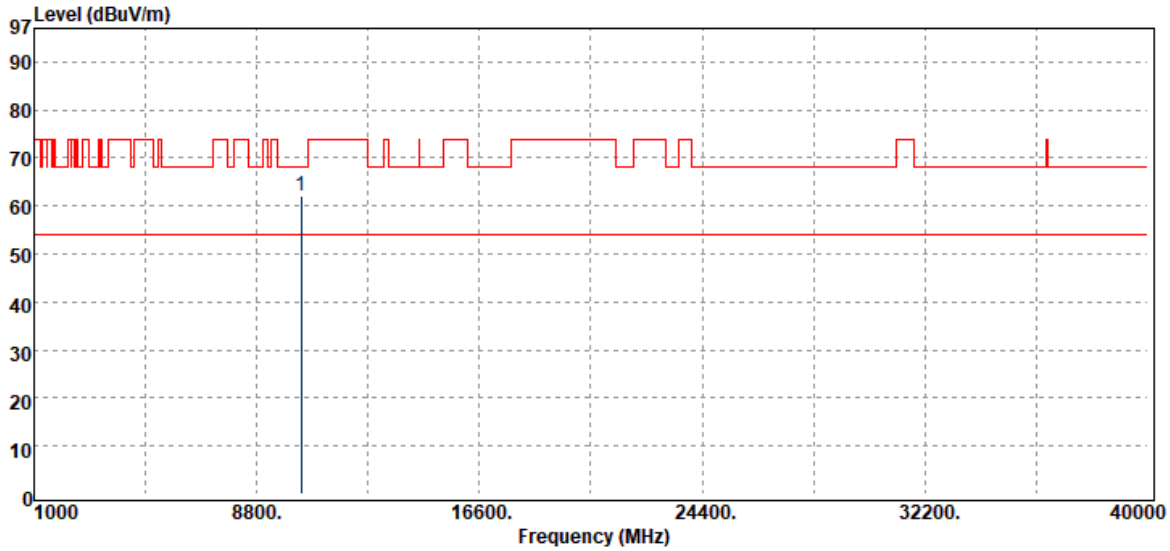
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/65
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	35.62	26.38	62.00	68.20	-6.20

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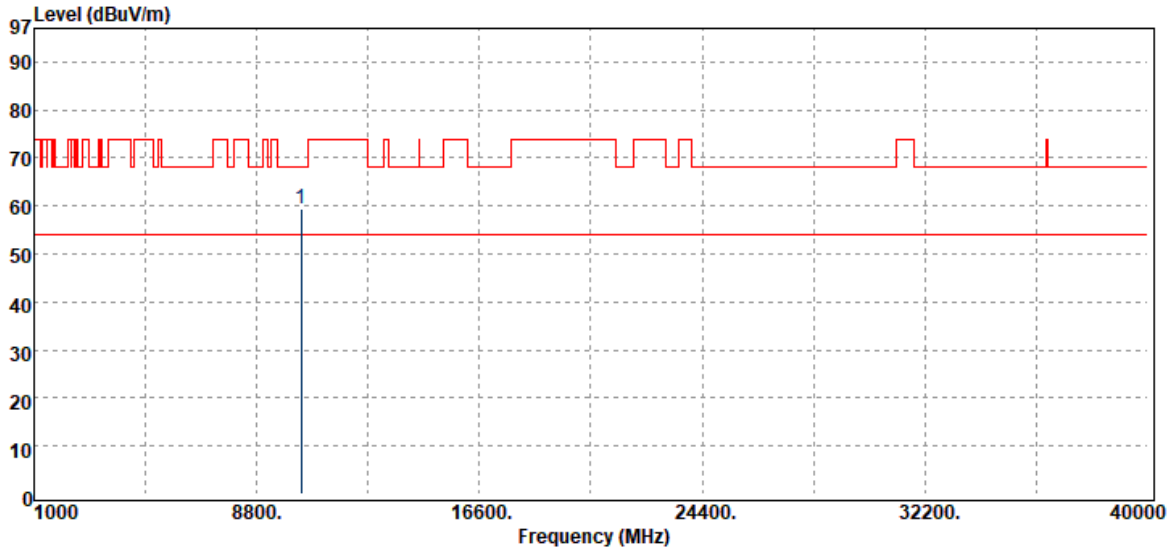
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/65
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	33.04	26.38	59.42	68.20	-8.78

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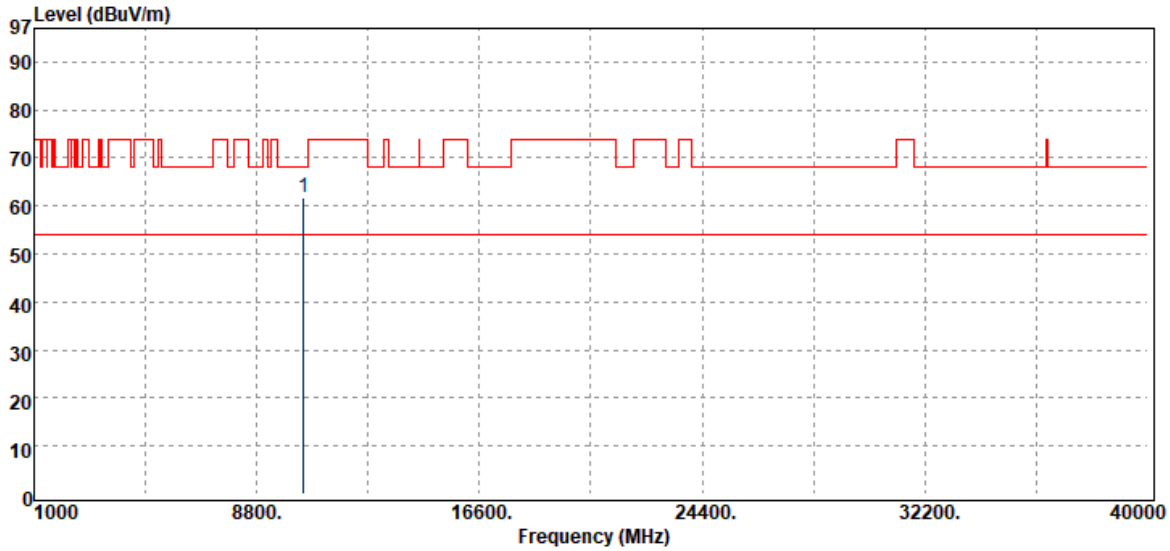
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/65
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	35.13	26.76	61.89	68.20	-6.31

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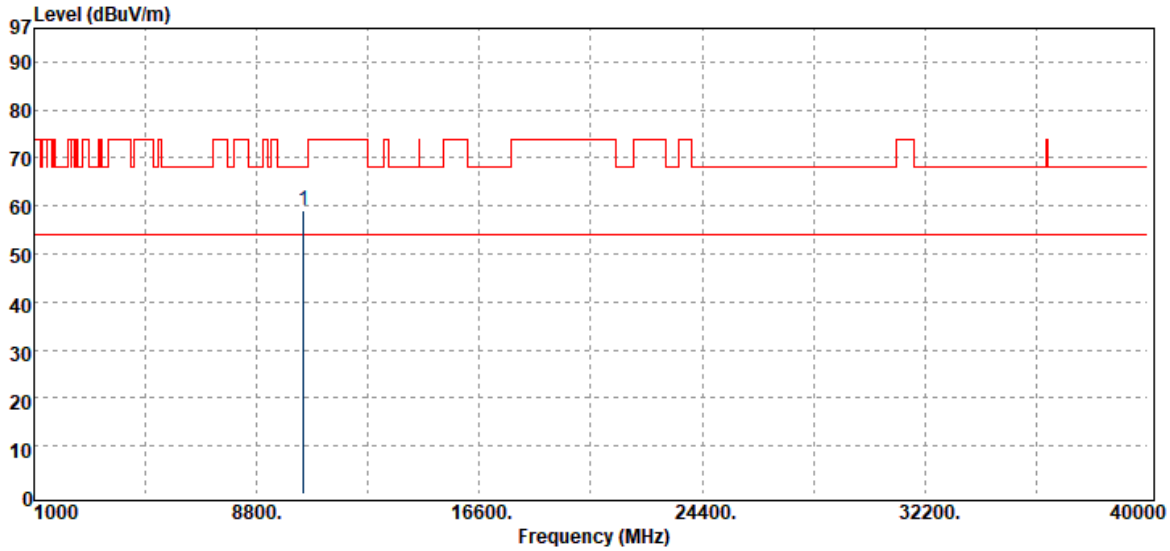
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/65
Test Frequency	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	32.19	26.76	58.95	68.20	-9.25

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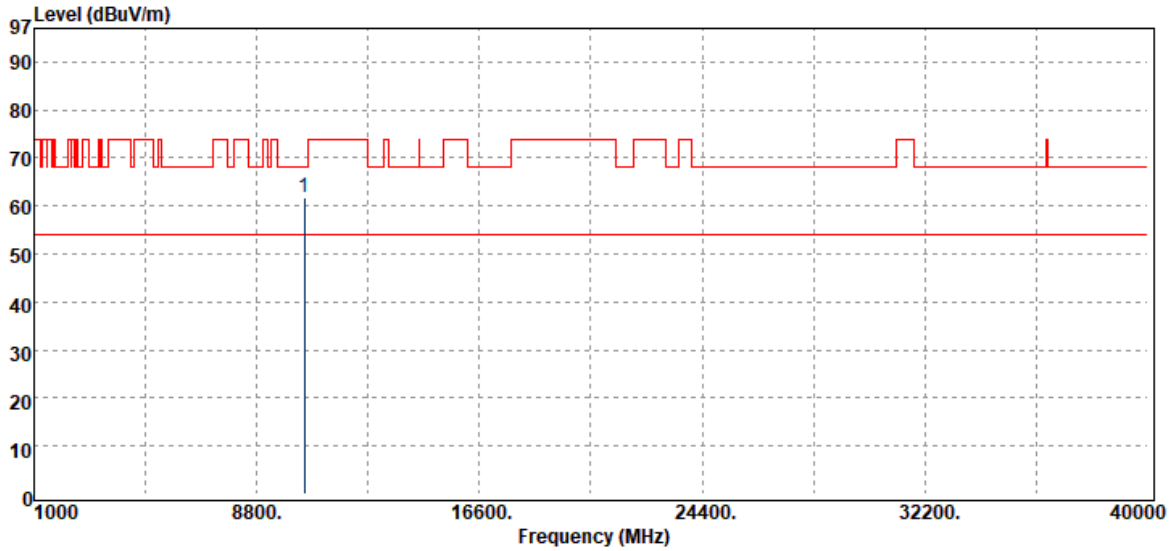
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/65
Test Frequency	:5240 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	35.31	26.40	61.71	68.20	-6.49

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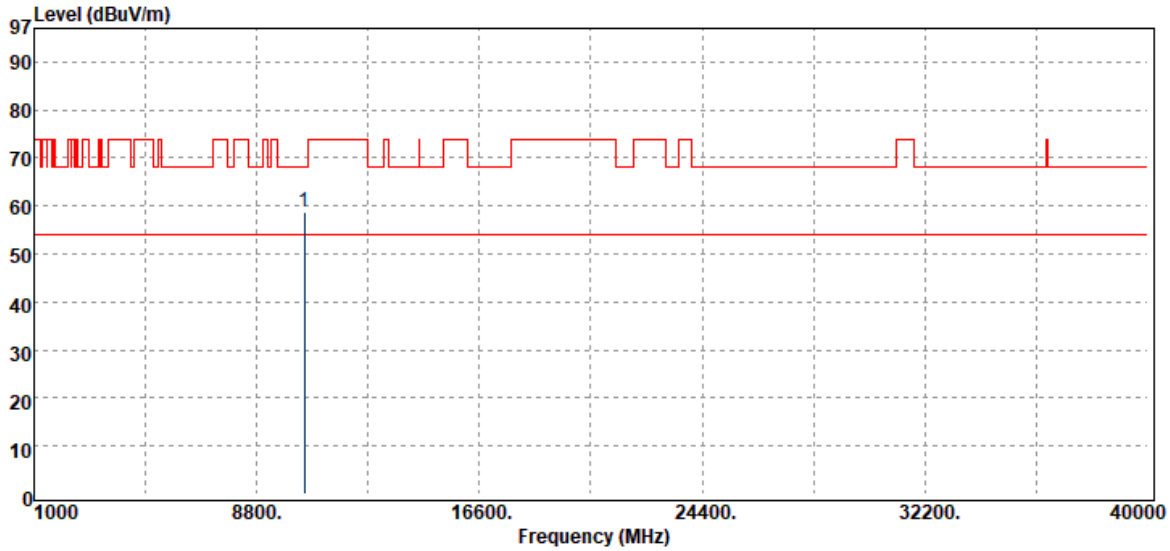
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/65
Test Frequency	:5240 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	32.50	26.40	58.90	68.20	-9.30

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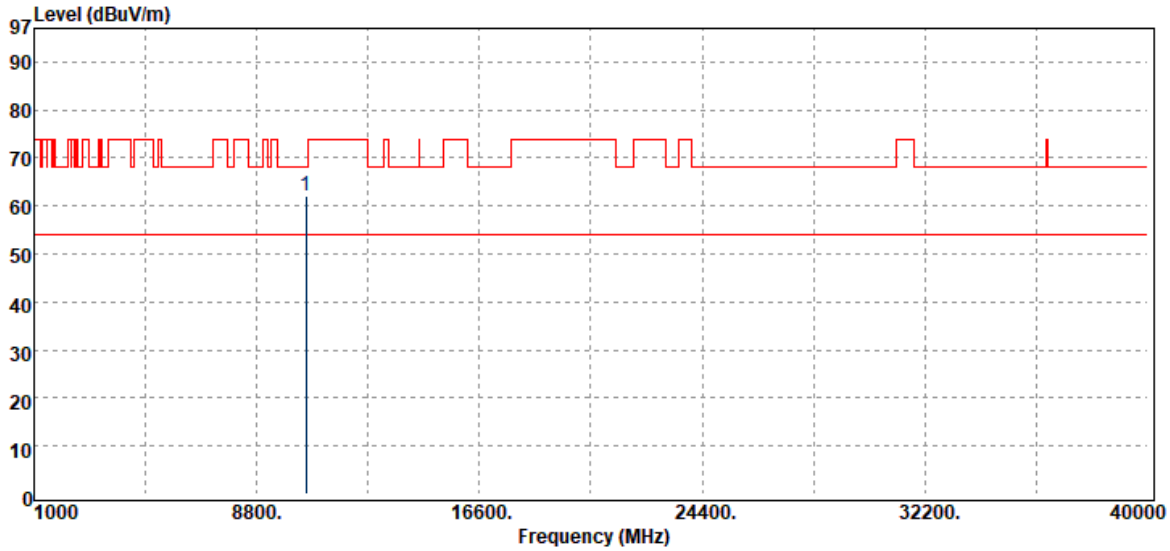
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/65
Test Frequency	:5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	35.83	26.32	62.15	68.20	-6.05

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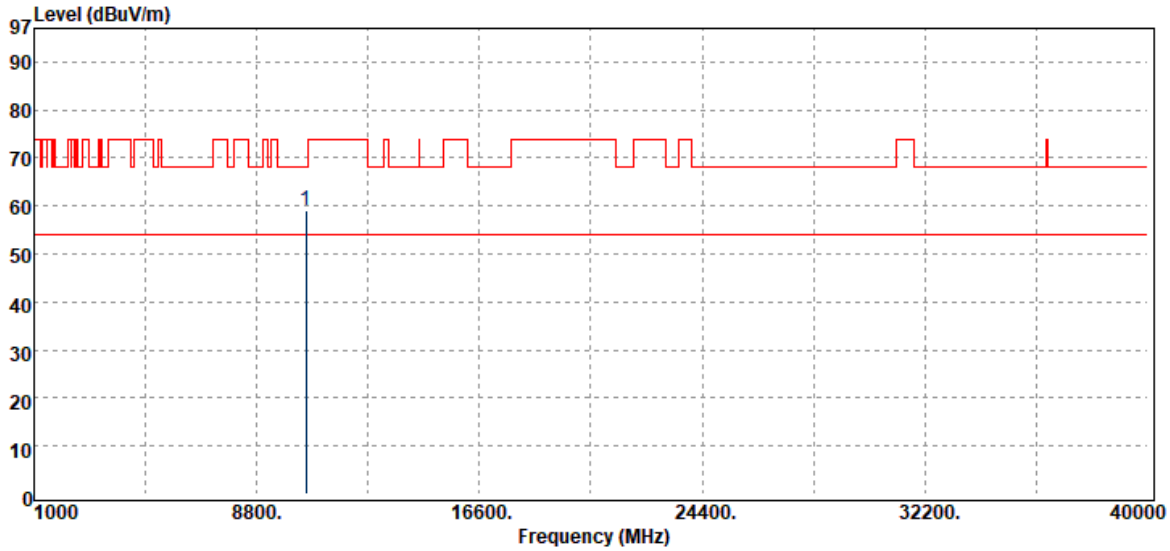
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/65
Test Frequency	:5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	32.63	26.32	58.95	68.20	-9.25

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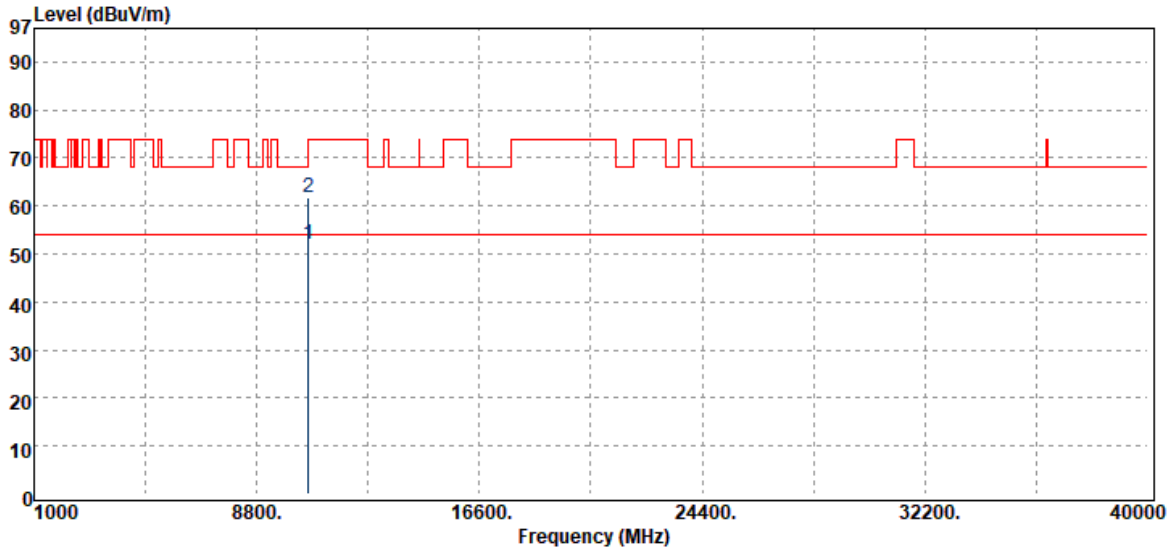
Report Number	:ER/2020/40011	Test Date	:2020-05-08
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/65
Test Frequency	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	Average	25.11	26.78	51.89	54.00	-2.11
10600.00	Peak	35.08	26.78	61.86	74.00	-12.14

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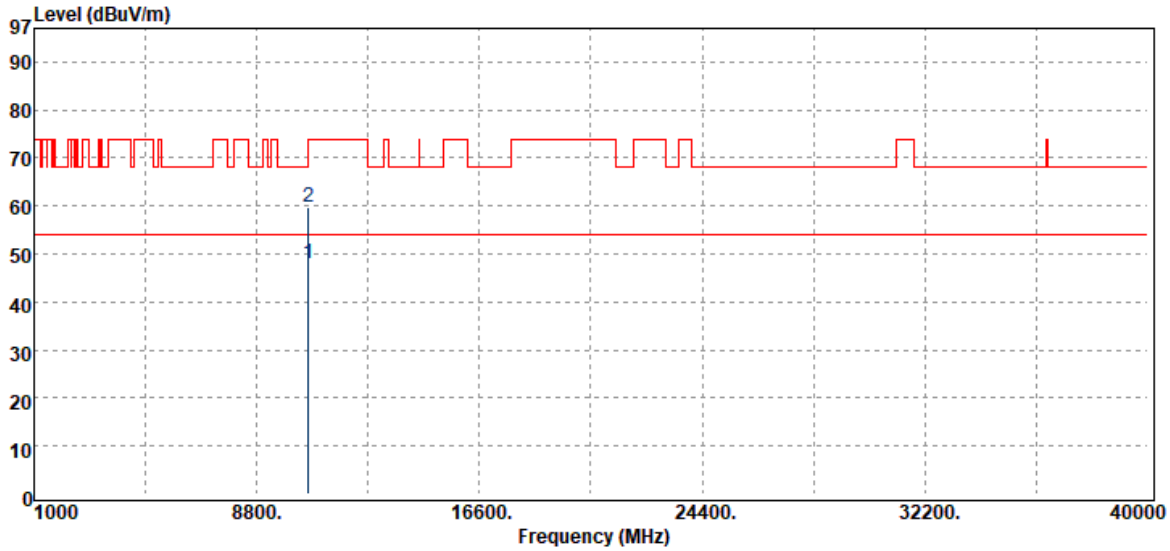
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/65
Test Frequency	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	Average	21.23	26.78	48.01	54.00	-5.99
10600.00	Peak	32.82	26.78	59.60	74.00	-14.40

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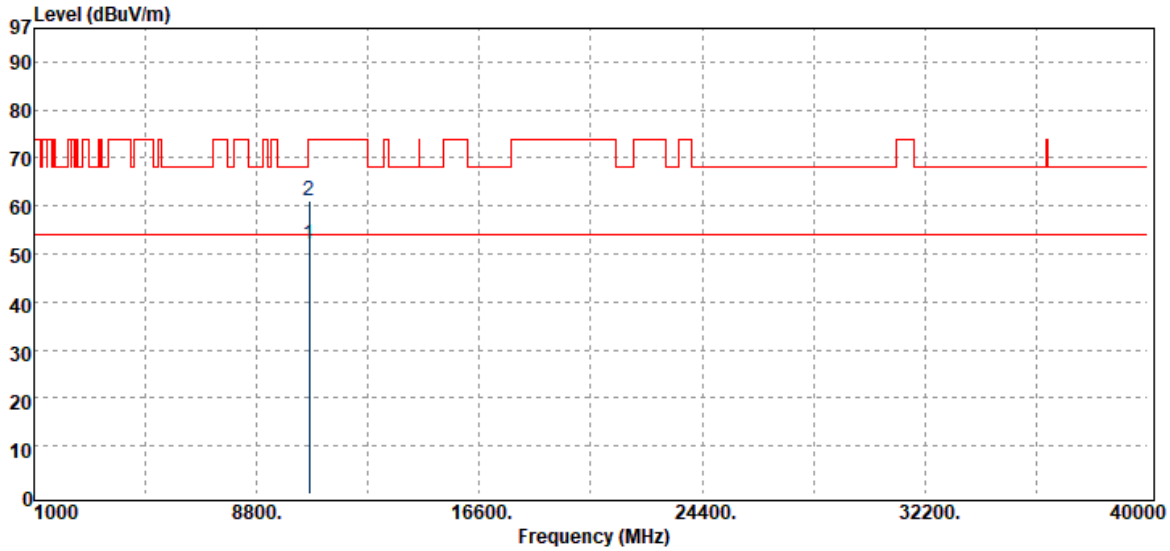
Report Number	:ER/2020/40011	Test Date	:2020-05-08
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/65
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	25.42	26.51	51.93	54.00	-2.07
10640.00	Peak	34.69	26.51	61.20	74.00	-12.80

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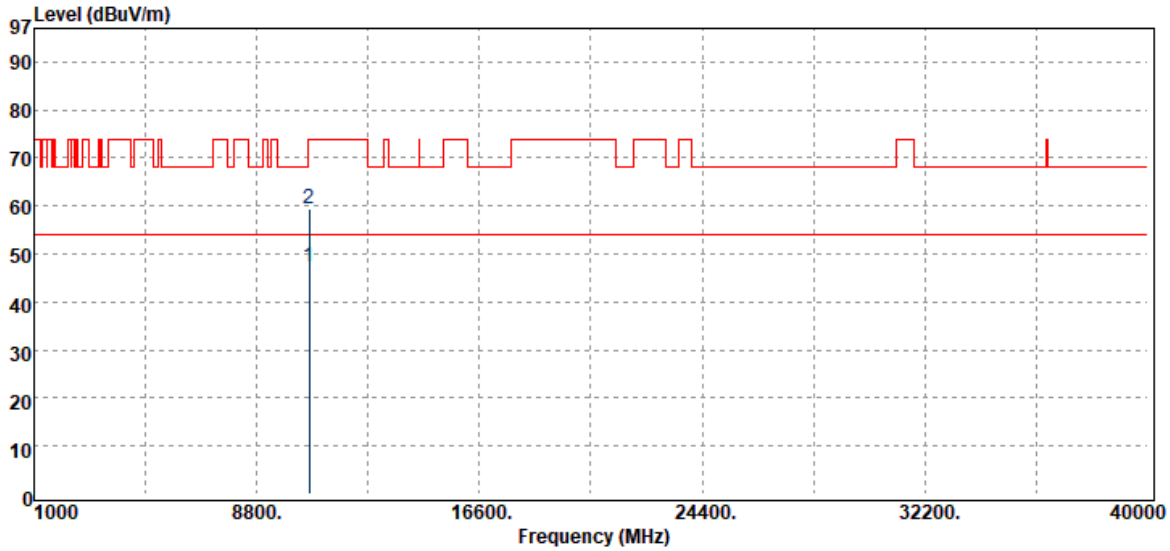
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/65
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	20.89	26.51	47.40	54.00	-6.60
10640.00	Peak	32.85	26.51	59.36	74.00	-14.64

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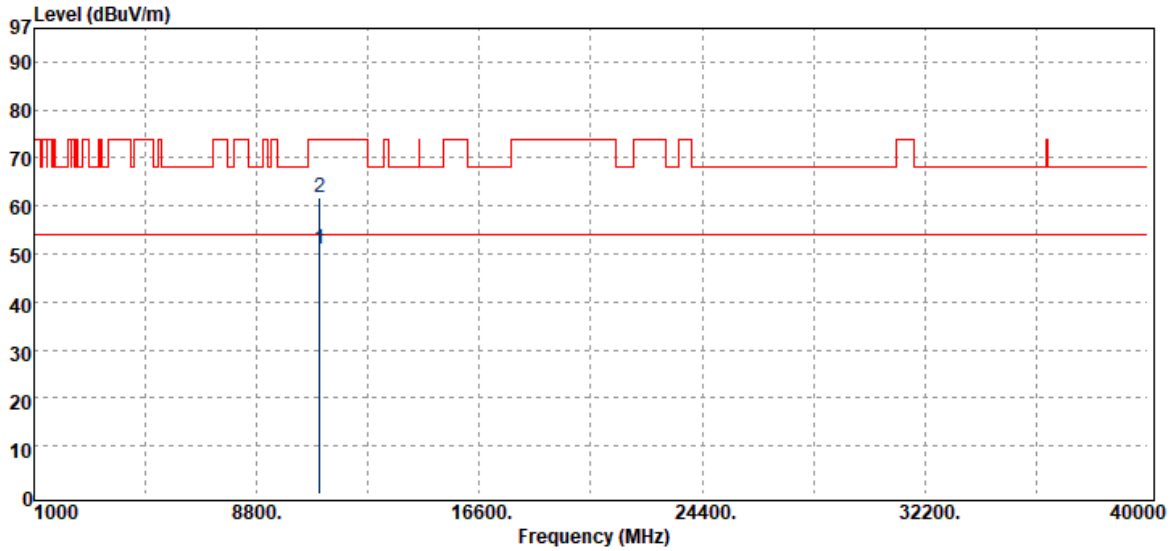
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/65
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	23.76	27.32	51.08	54.00	-2.92
11000.00	Peak	34.49	27.32	61.81	74.00	-12.19

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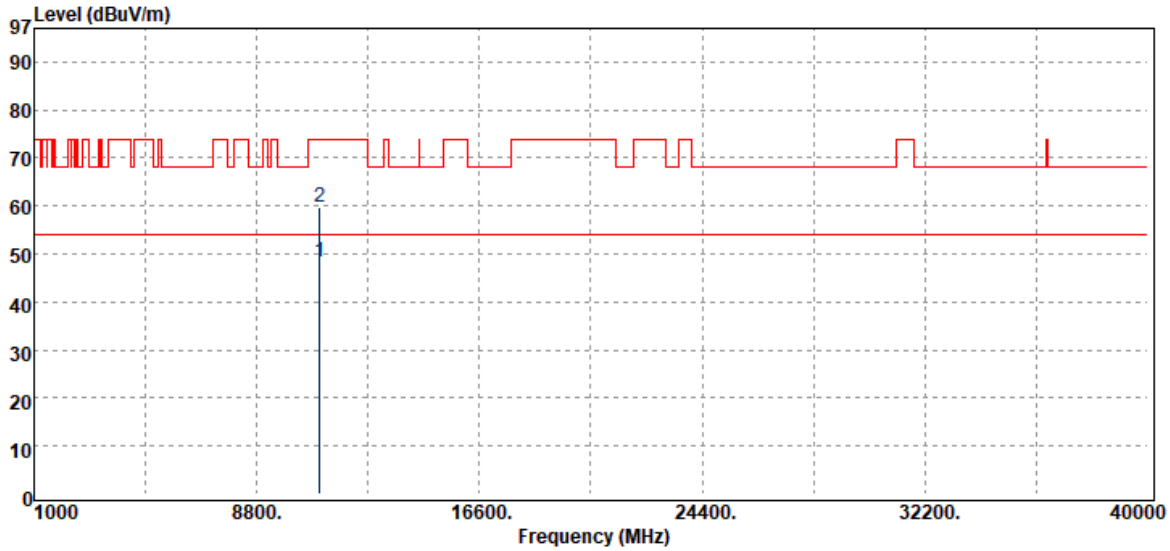
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/65
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	21.17	27.32	48.49	54.00	-5.51
11000.00	Peak	32.50	27.32	59.82	74.00	-14.18

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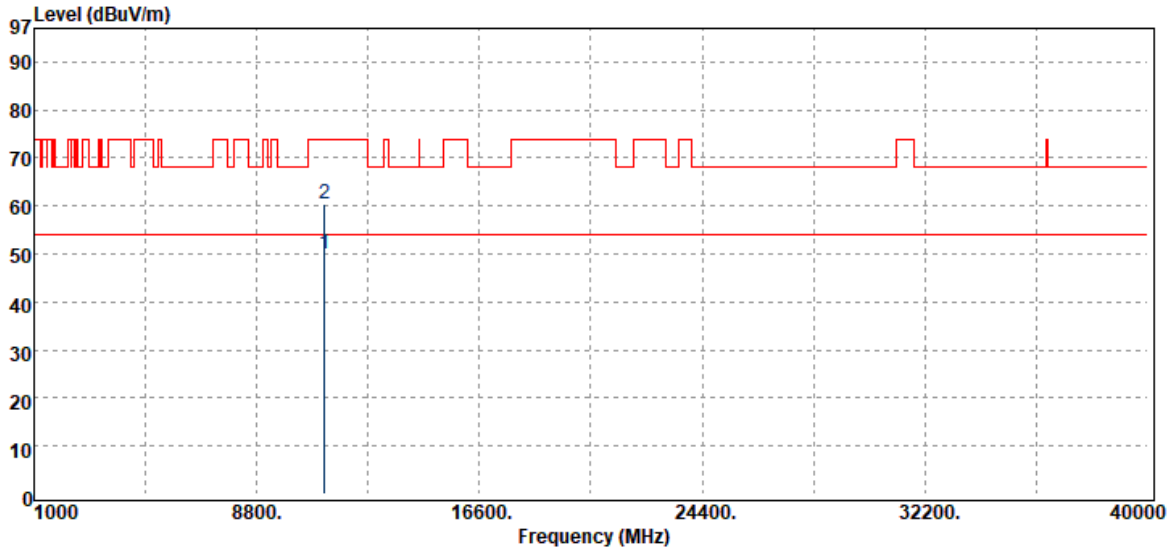
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/65
Test Frequency	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Average	23.09	26.98	50.07	54.00	-3.93
11160.00	Peak	33.58	26.98	60.56	74.00	-13.44

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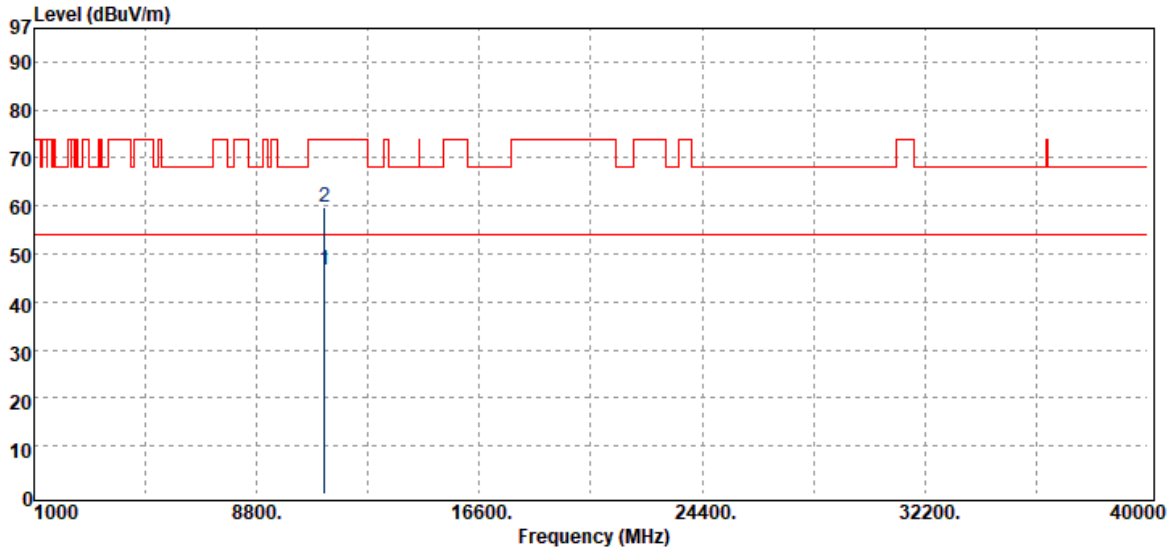
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/65
Test Frequency	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Average	19.81	26.98	46.79	54.00	-7.21
11160.00	Peak	32.63	26.98	59.61	74.00	-14.39

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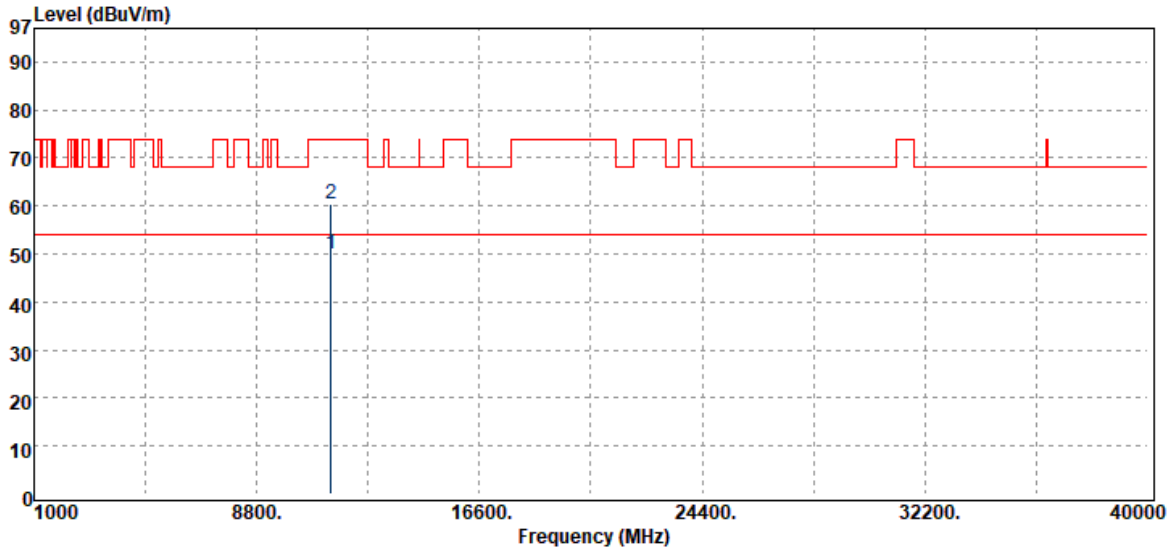
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/65
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Average	22.43	27.54	49.97	54.00	-4.03
11400.00	Peak	32.89	27.54	60.43	74.00	-13.57

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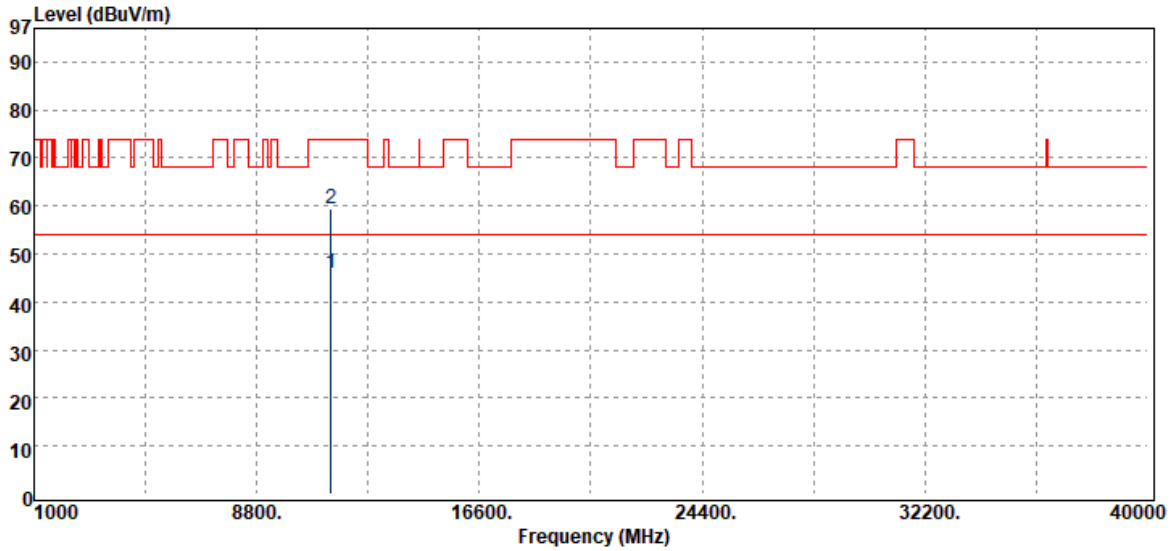
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/65
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Average	18.41	27.54	45.95	54.00	-8.05
11400.00	Peak	31.91	27.54	59.45	74.00	-14.55

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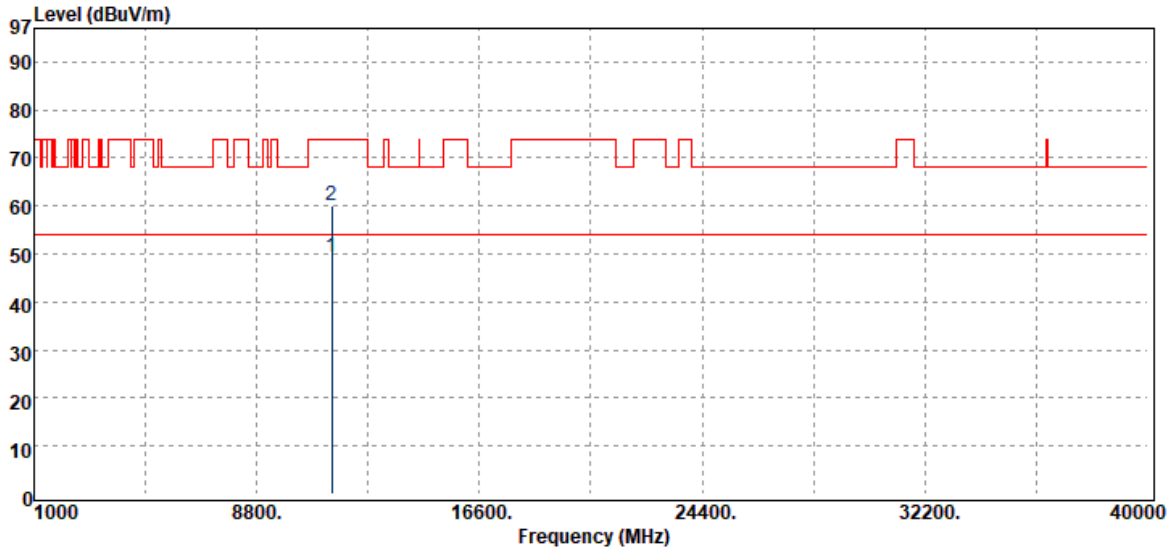
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3-B4	Temp./Humi.	:21.1/65
Test Frequency	:5720 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	21.68	27.76	49.44	54.00	-4.56
11440.00	Peak	32.34	27.76	60.10	74.00	-13.90

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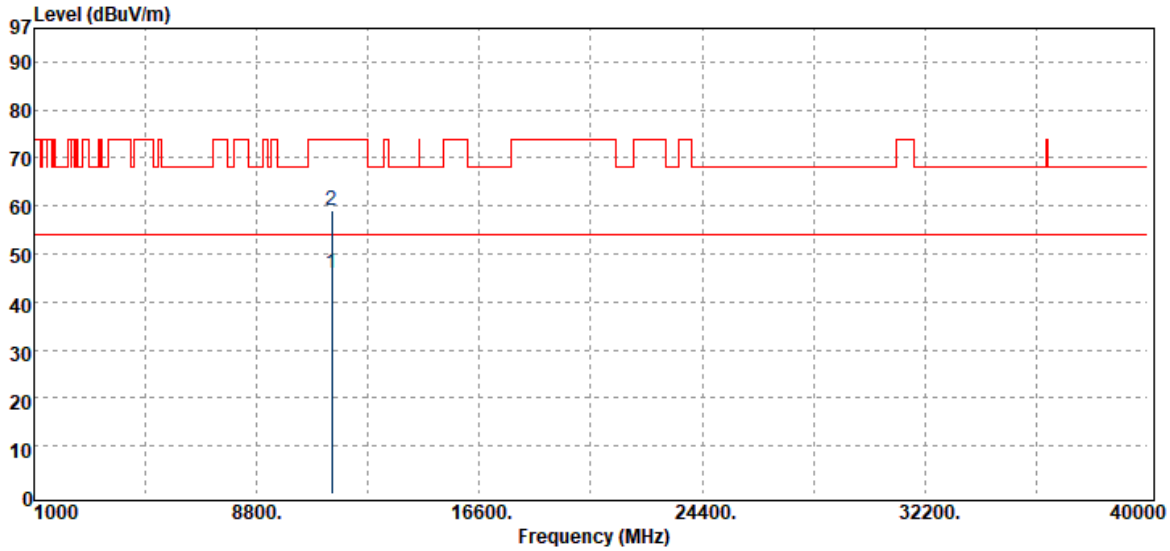
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n20B3-B4	Temp./Humi.	:21.1/65
Test Frequency	:5720 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	18.07	27.76	45.83	54.00	-8.17
11440.00	Peak	31.30	27.76	59.06	74.00	-14.94

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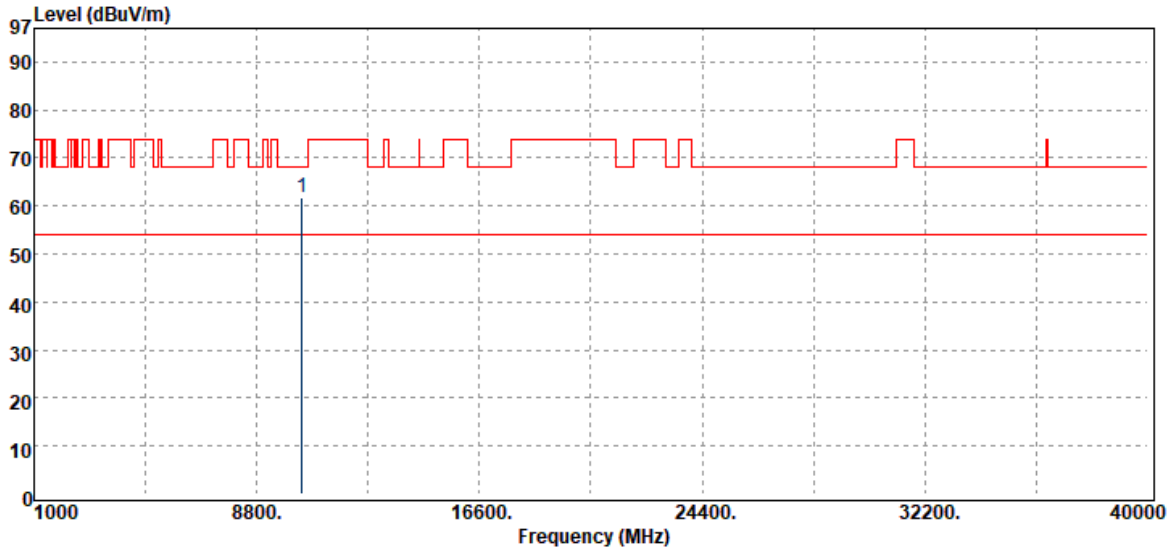
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B1	Temp./Humi.	:21.1/65
Test Frequency	:5190 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	Peak	35.22	26.61	61.83	68.20	-6.37

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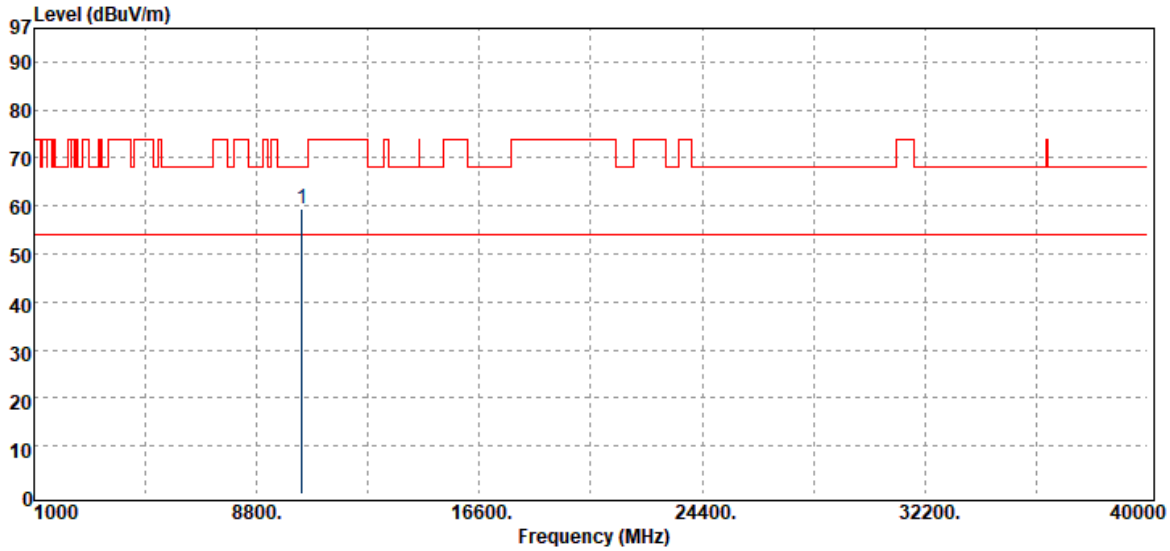
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B1	Temp./Humi.	:21.1/65
Test Frequency	:5190 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	Peak	32.94	26.61	59.55	68.20	-8.65

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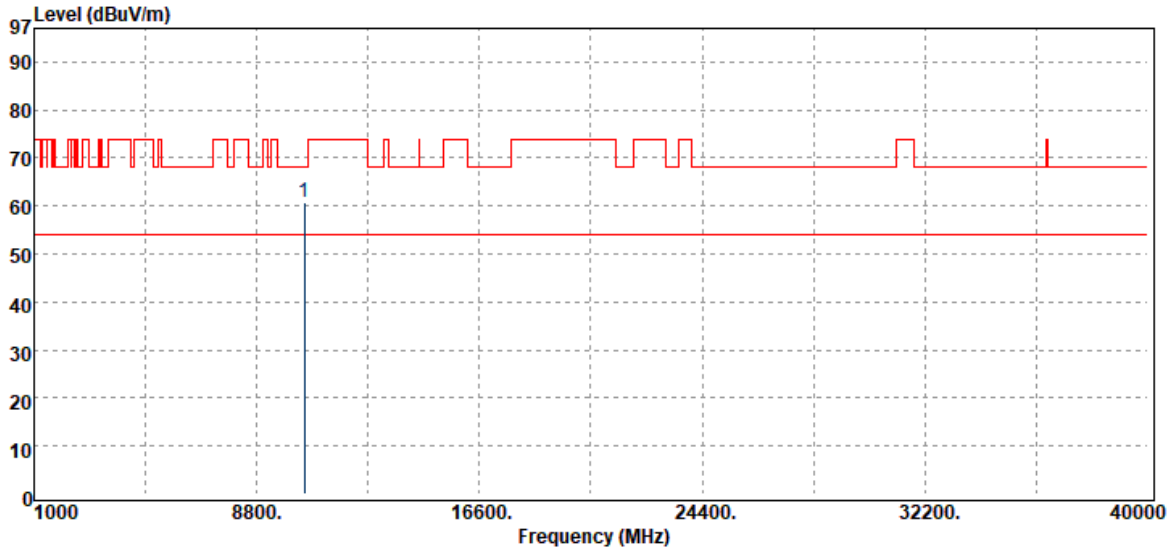
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B1	Temp./Humi.	:21.1/65
Test Frequency	:5230 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	Peak	34.24	26.63	60.87	68.20	-7.33

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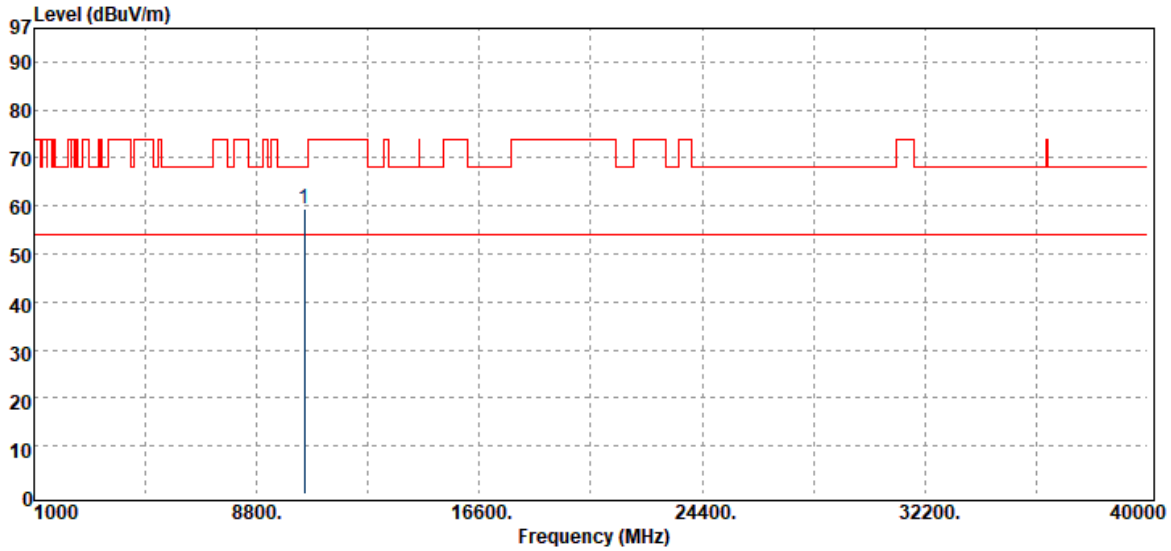
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B1	Temp./Humi.	:21.1/65
Test Frequency	:5230 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	Peak	32.93	26.63	59.56	68.20	-8.64

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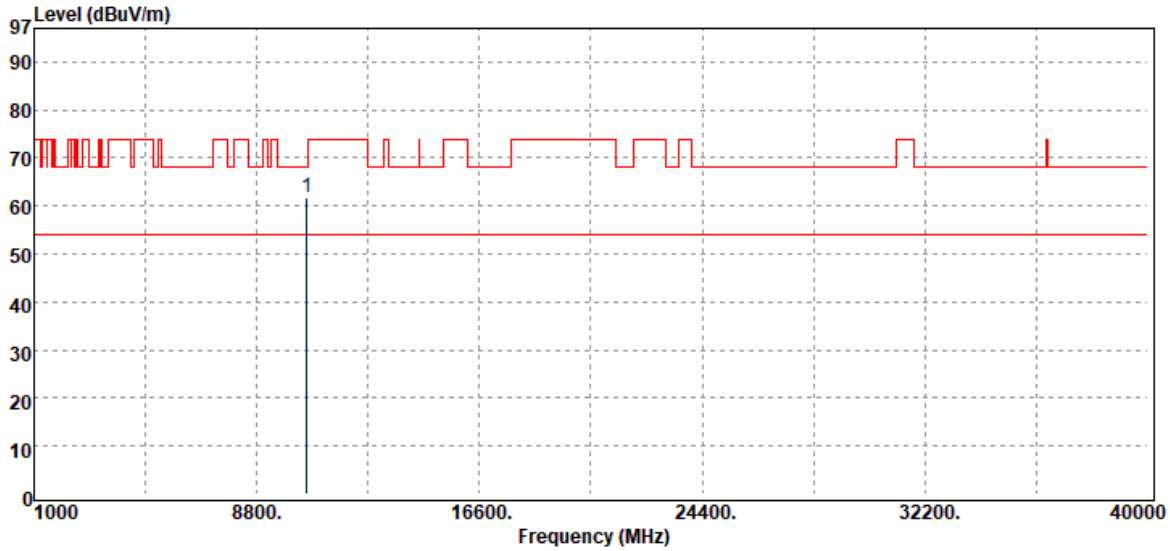
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B2	Temp./Humi.	:21.1/65
Test Frequency	:5270 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	Peak	35.15	26.47	61.62	68.20	-6.58

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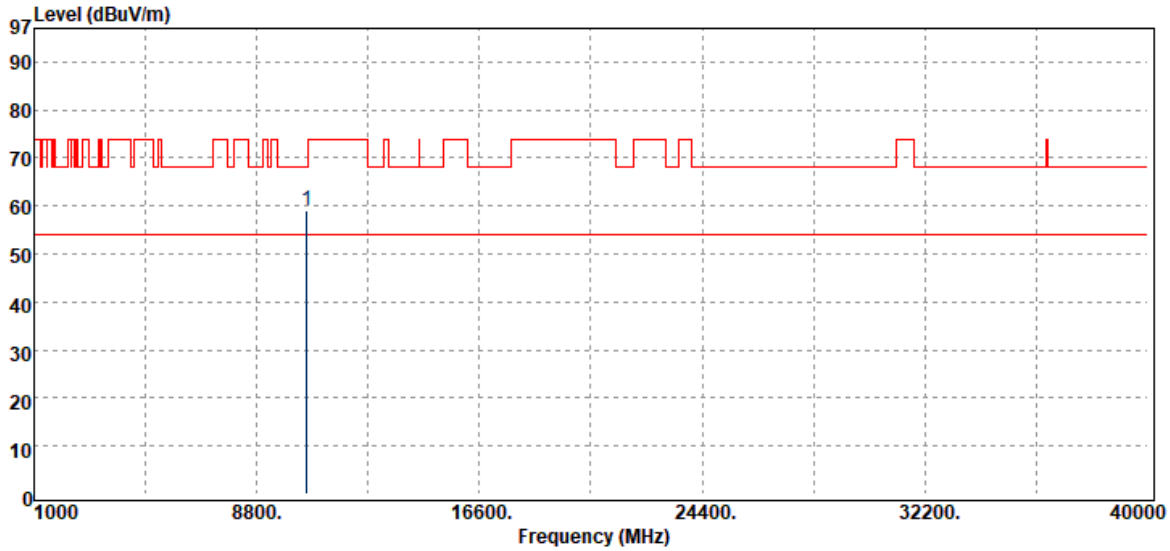
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B2	Temp./Humi.	:21.1/65
Test Frequency	:5270 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	Peak	32.54	26.47	59.01	68.20	-9.19

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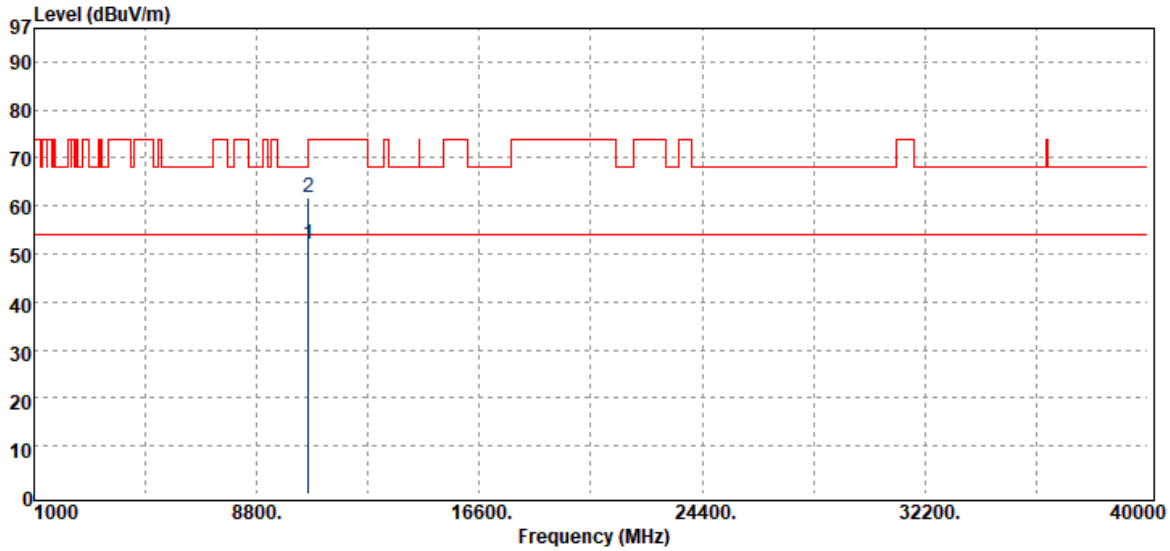
Report Number	:ER/2020/40011	Test Date	:2020-05-08
Operation Mode	:802.11n40B2	Temp./Humi.	:21.1/65
Test Frequency	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Average	25.30	26.64	51.94	54.00	-2.06
10620.00	Peak	34.96	26.64	61.60	74.00	-12.40

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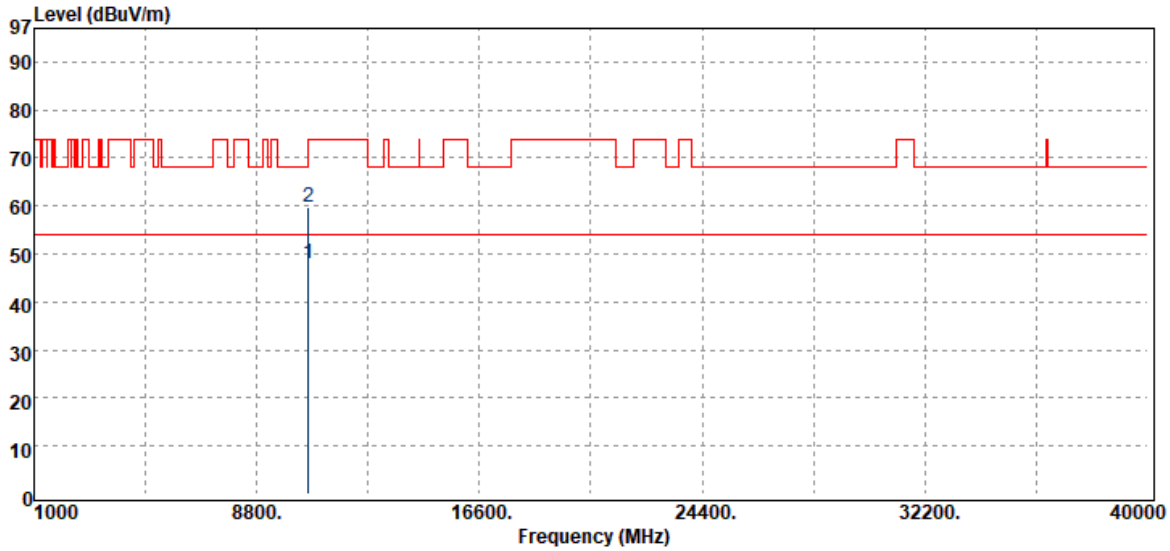
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B2	Temp./Humi.	:21.1/65
Test Frequency	:5310 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Average	21.36	26.64	48.00	54.00	-6.00
10620.00	Peak	32.97	26.64	59.61	74.00	-14.39

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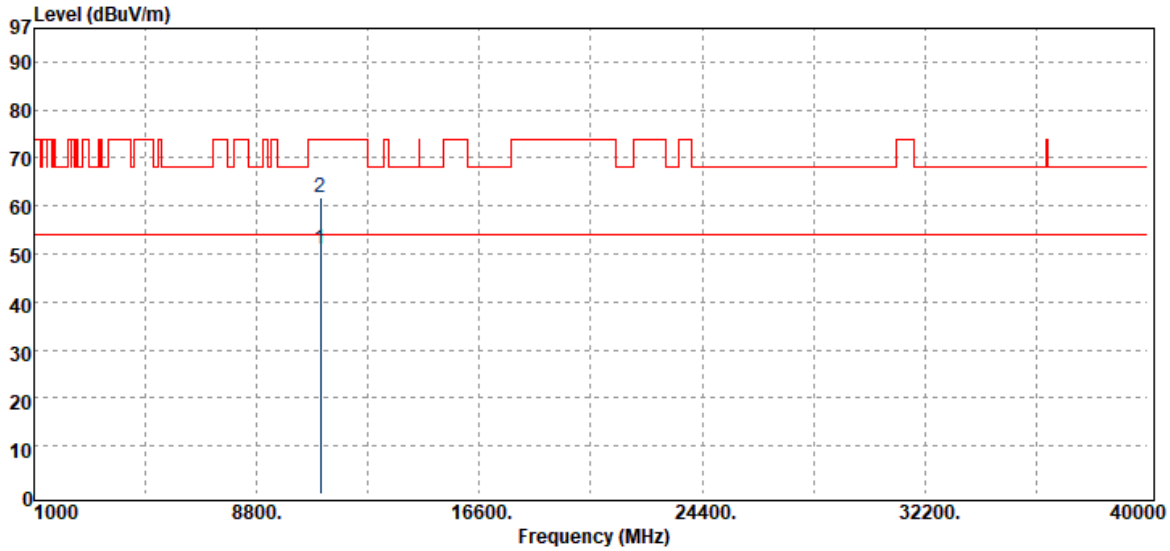
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/65
Test Frequency	:5510 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Average	23.77	27.09	50.86	54.00	-3.14
11020.00	Peak	34.76	27.09	61.85	74.00	-12.15

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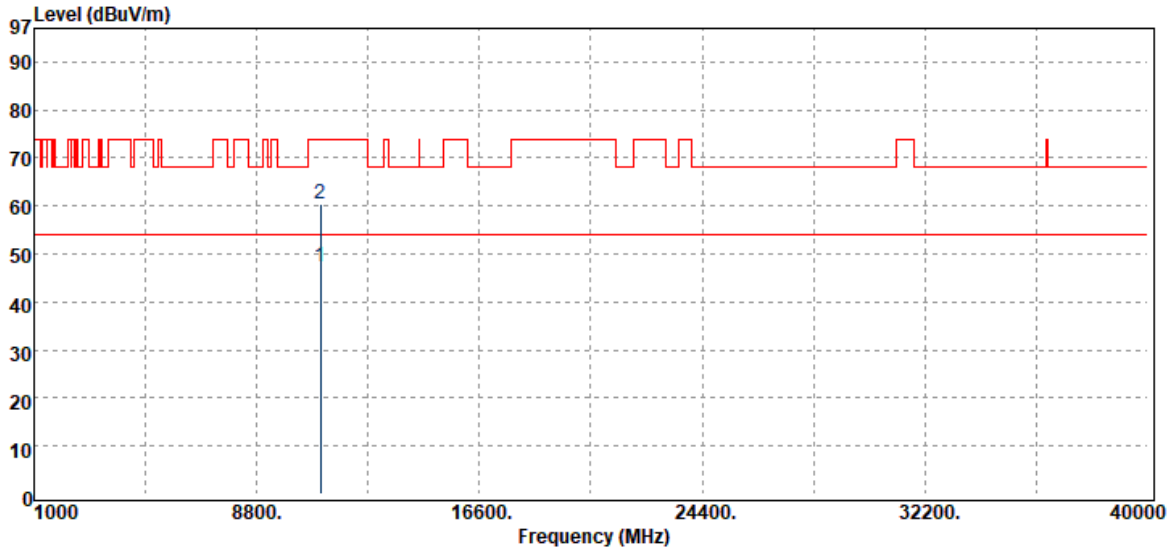
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/65
Test Frequency	:5510 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Average	20.09	27.09	47.18	54.00	-6.82
11020.00	Peak	33.36	27.09	60.45	74.00	-13.55

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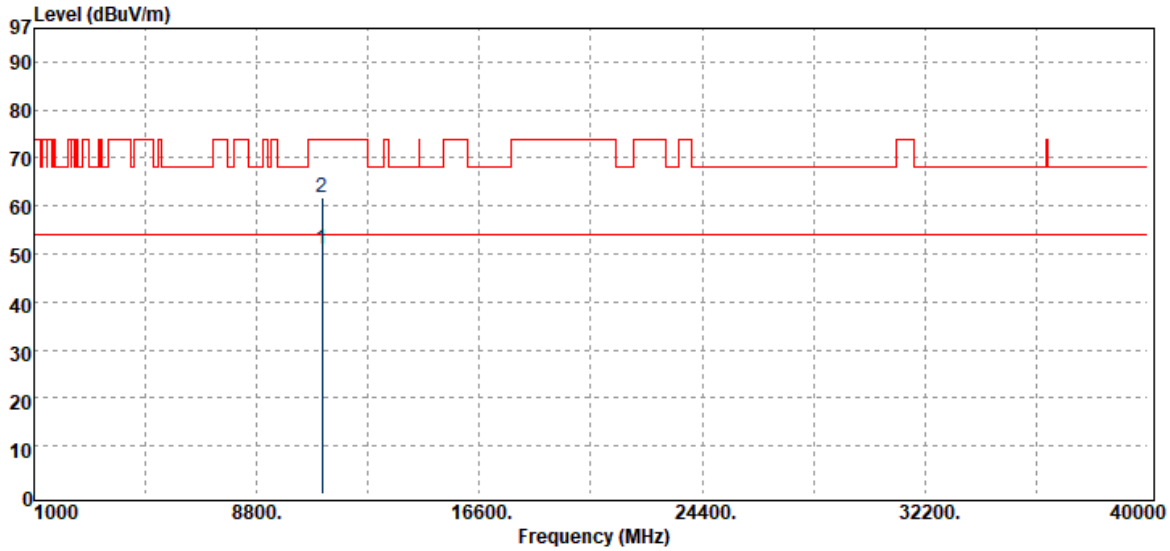
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/65
Test Frequency	:5550 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	Average	23.68	27.23	50.91	54.00	-3.09
11100.00	Peak	34.52	27.23	61.75	74.00	-12.25

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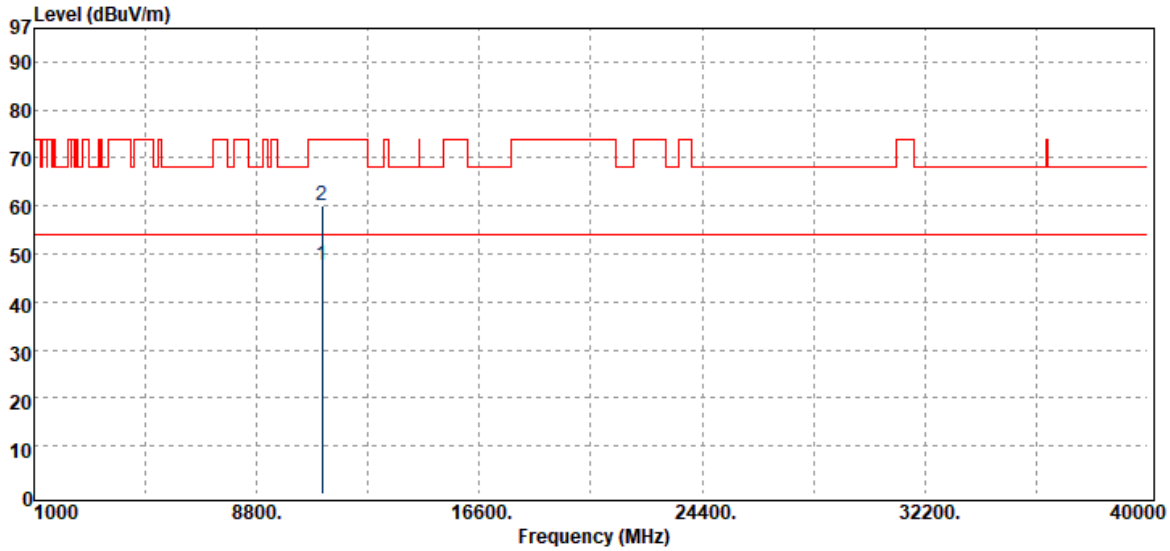
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/65
Test Frequency	:5550 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	Average	20.38	27.23	47.61	54.00	-6.39
11100.00	Peak	32.69	27.23	59.92	74.00	-14.08

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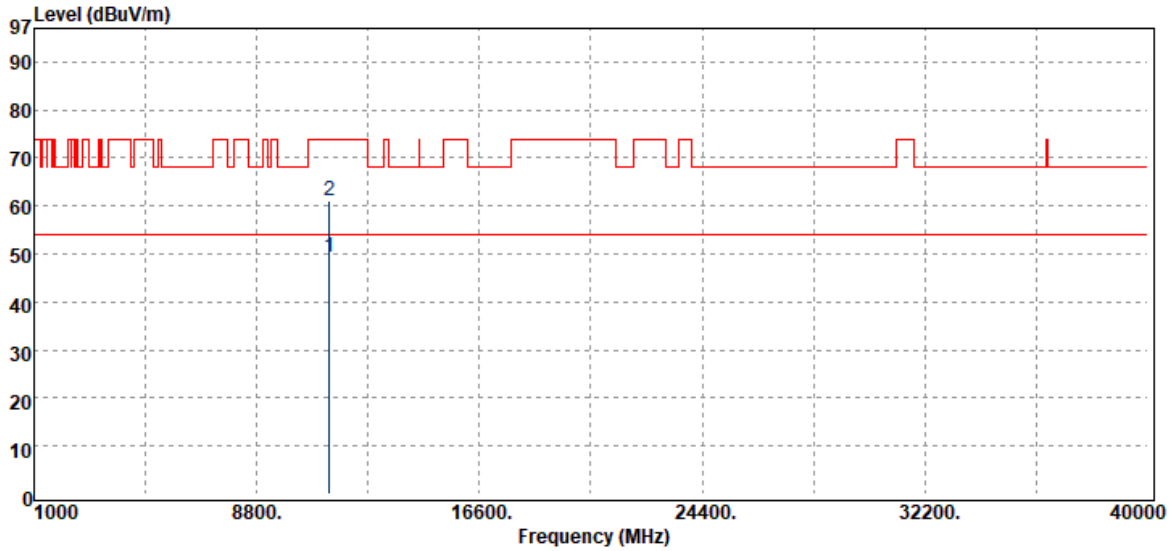
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/65
Test Frequency	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Average	21.72	27.77	49.49	54.00	-4.51
11340.00	Peak	33.30	27.77	61.07	74.00	-12.93

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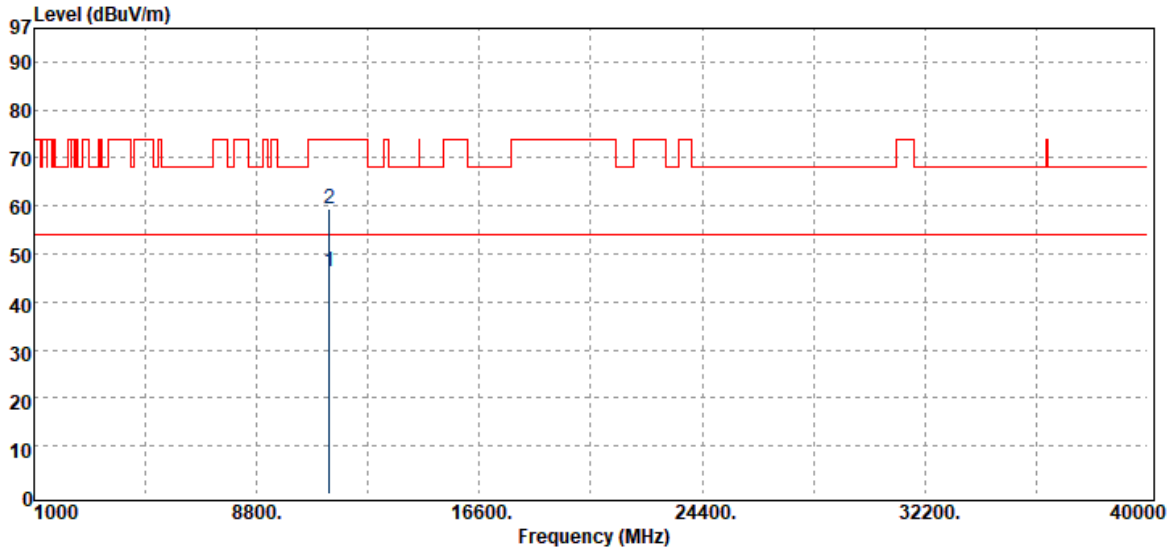
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/65
Test Frequency	:5670 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Average	18.59	27.77	46.36	54.00	-7.64
11340.00	Peak	31.57	27.77	59.34	74.00	-14.66

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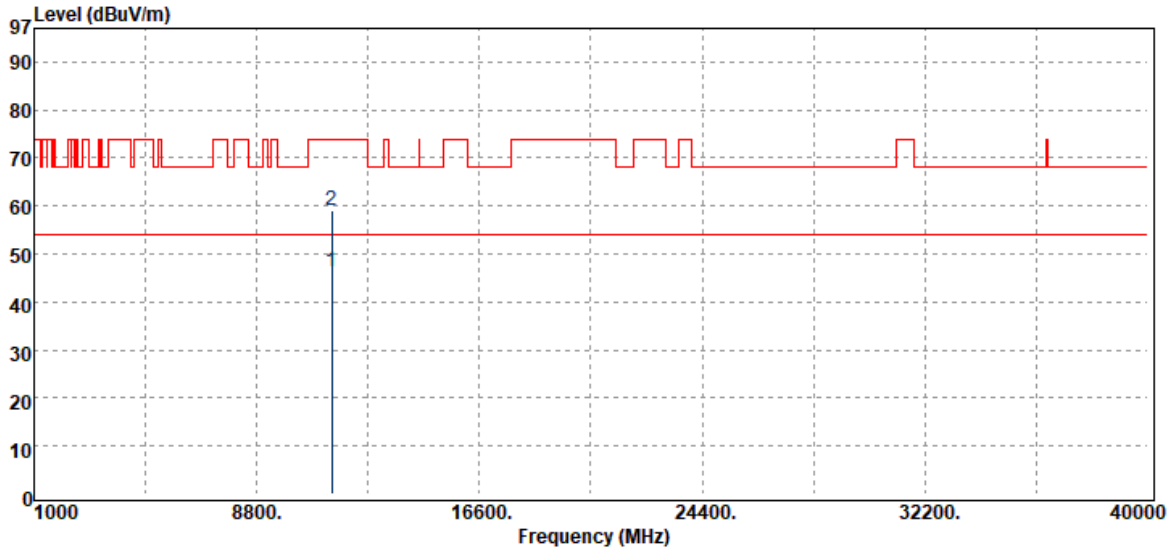
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3-B4	Temp./Humi.	:21.1/65
Test Frequency	:5710 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11420.00	Average	18.58	27.66	46.24	54.00	-7.76
11420.00	Peak	31.52	27.66	59.18	74.00	-14.82

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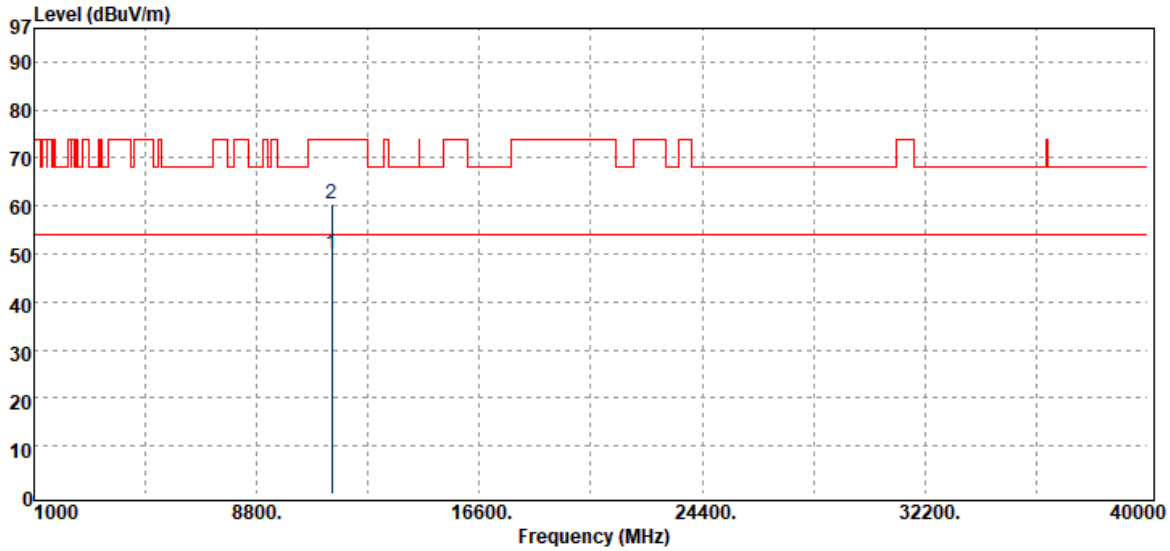
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11n40B3-B4	Temp./Humi.	:21.1/65
Test Frequency	:5710 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11420.00	Average	22.45	27.66	50.11	54.00	-3.89
11420.00	Peak	32.70	27.66	60.36	74.00	-13.64

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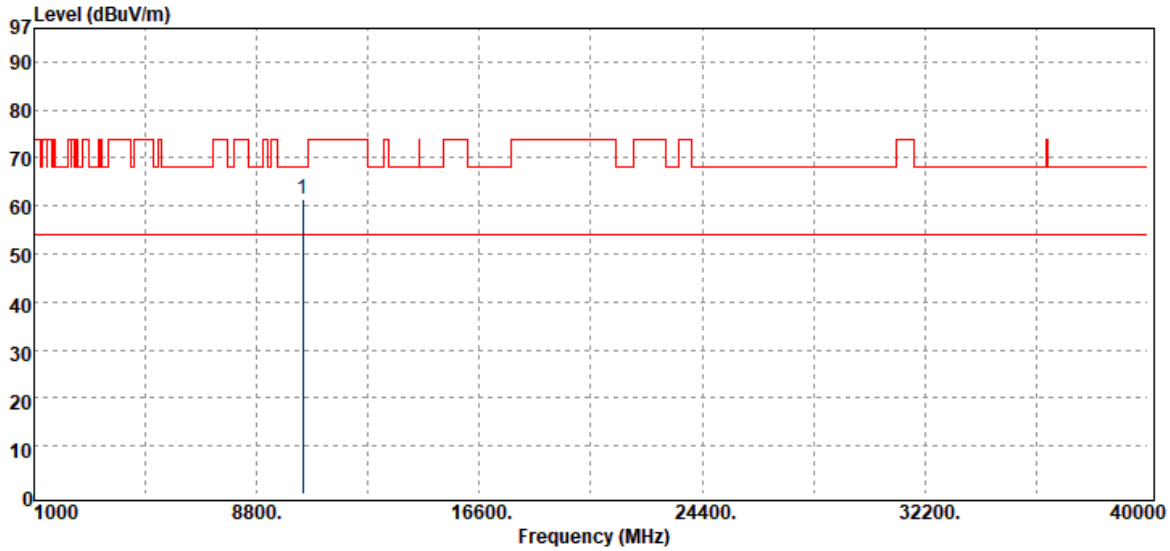
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B1	Temp./Humi.	:21.1/65
Test Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	Peak	34.72	26.81	61.53	68.20	-6.67

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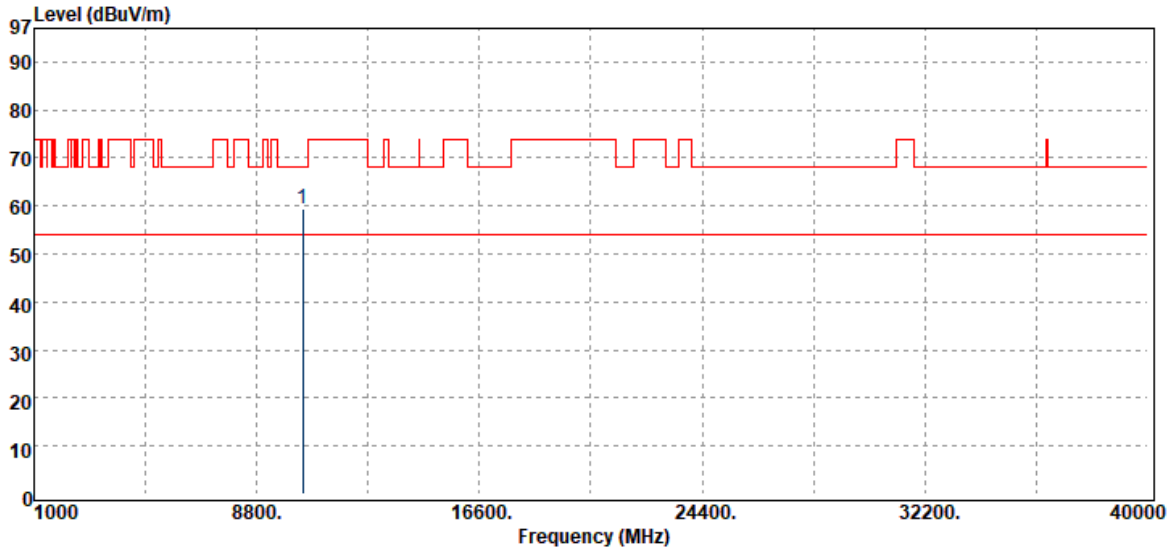
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B1	Temp./Humi.	:21.1/65
Test Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	Peak	32.52	26.81	59.33	68.20	-8.87

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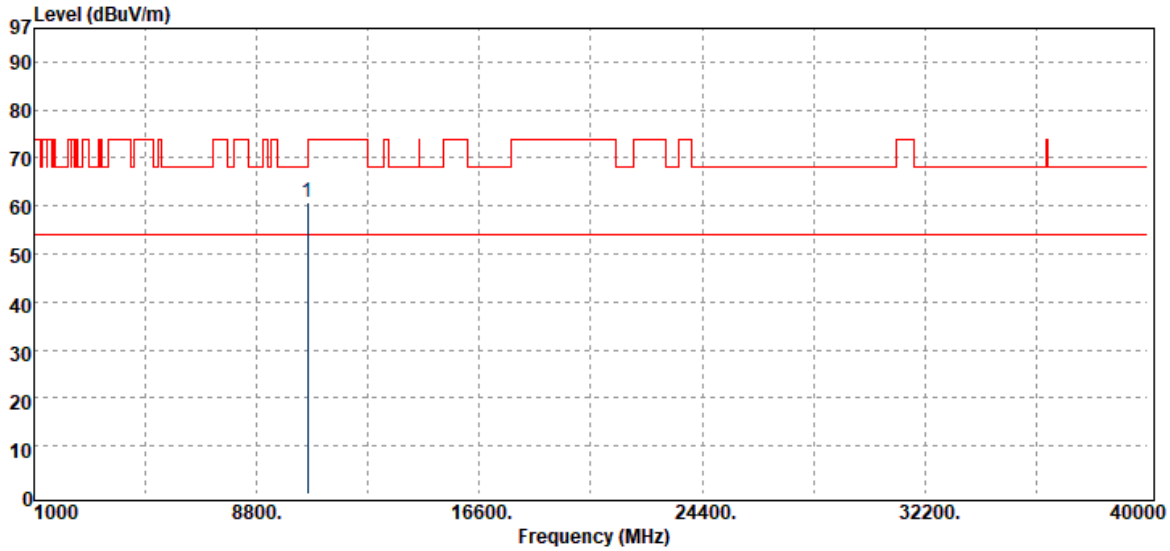
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B2	Temp./Humi.	:21.1/65
Test Frequency	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	Peak	34.10	26.69	60.79	68.20	-7.41

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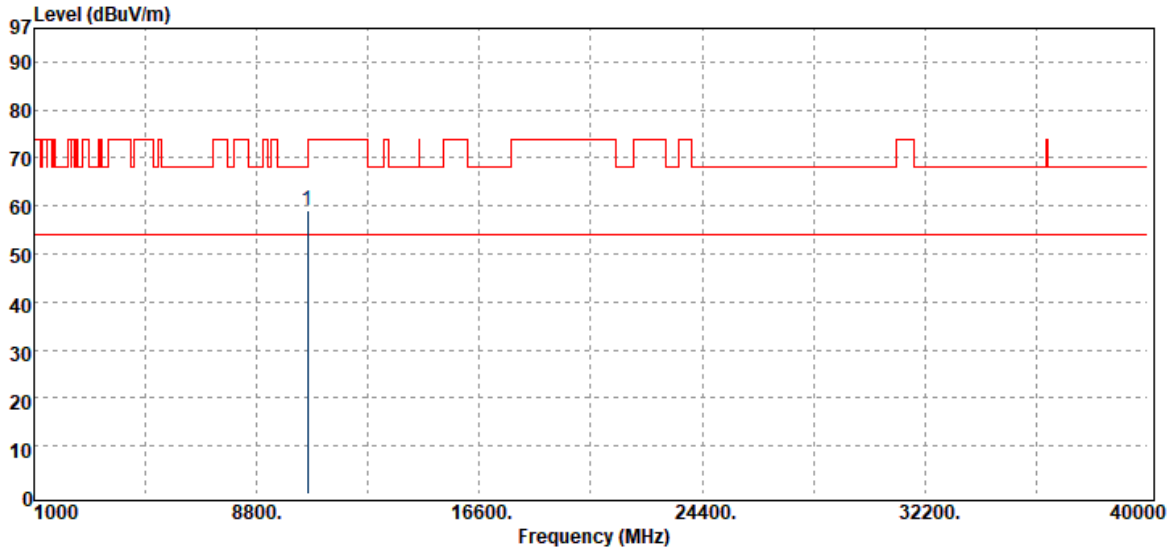
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B2	Temp./Humi.	:21.1/65
Test Frequency	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	Peak	32.49	26.69	59.18	68.20	-9.02

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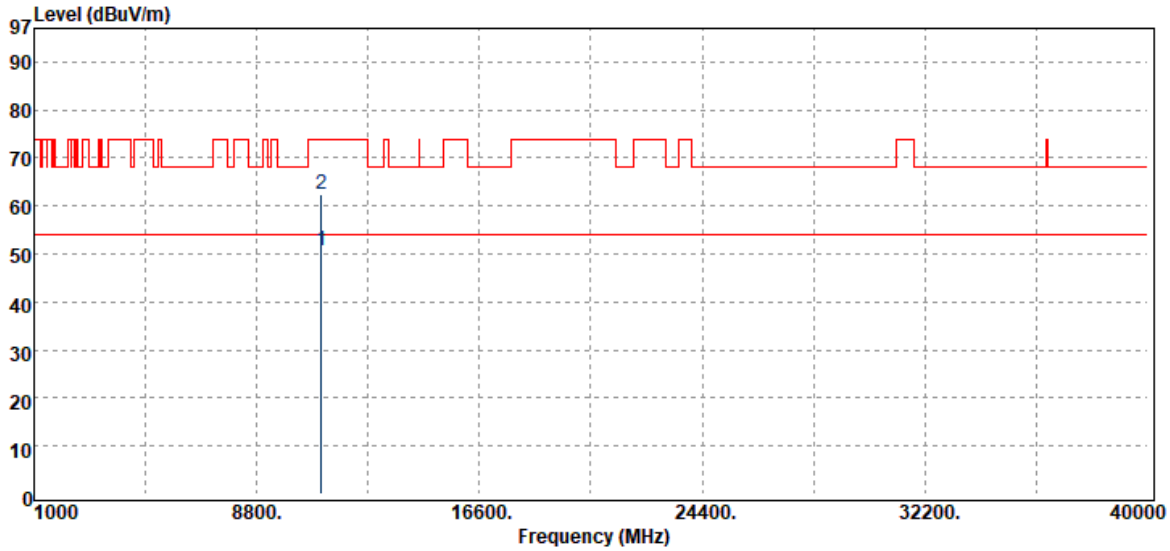
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/65
Test Frequency	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Average	23.85	26.84	50.69	54.00	-3.31
11060.00	Peak	35.44	26.84	62.28	74.00	-11.72

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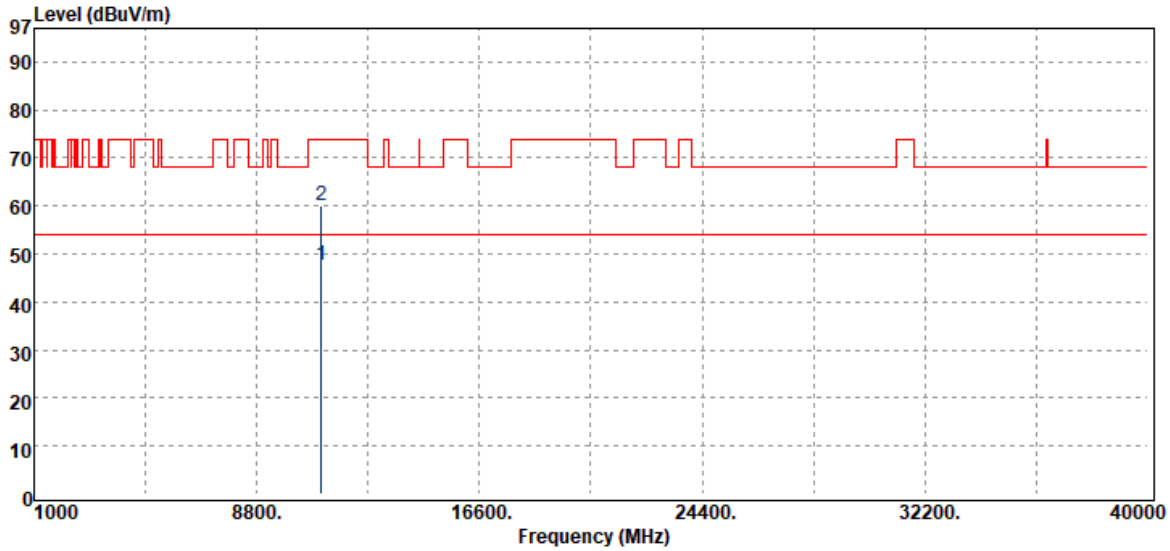
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/65
Test Frequency	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Average	20.81	26.84	47.65	54.00	-6.35
11060.00	Peak	33.36	26.84	60.20	74.00	-13.80

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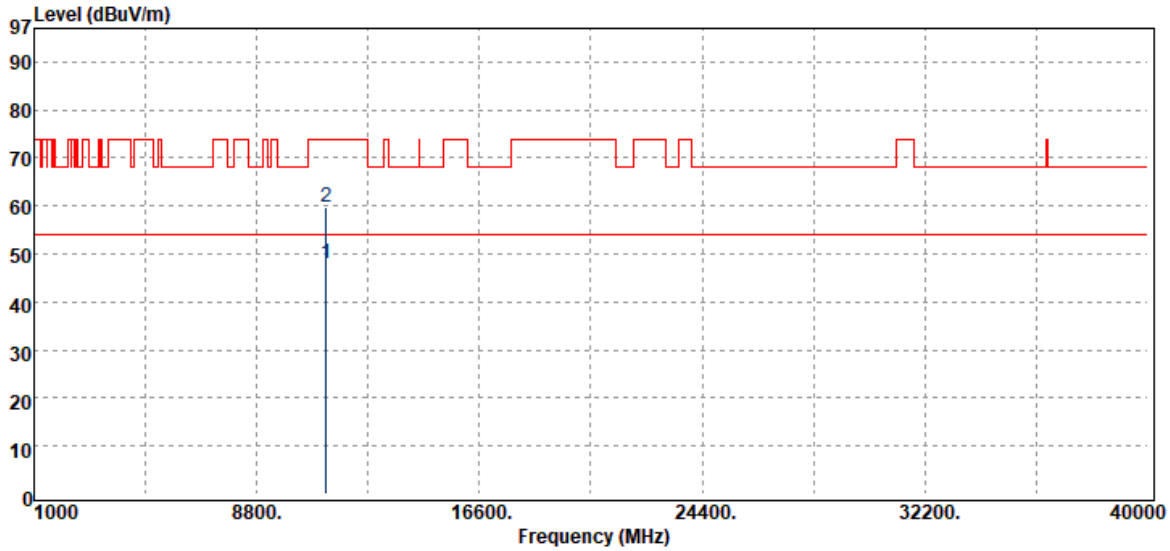
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/65
Test Frequency	:5610 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	Average	21.17	26.68	47.85	54.00	-6.15
11220.00	Peak	33.16	26.68	59.84	74.00	-14.16

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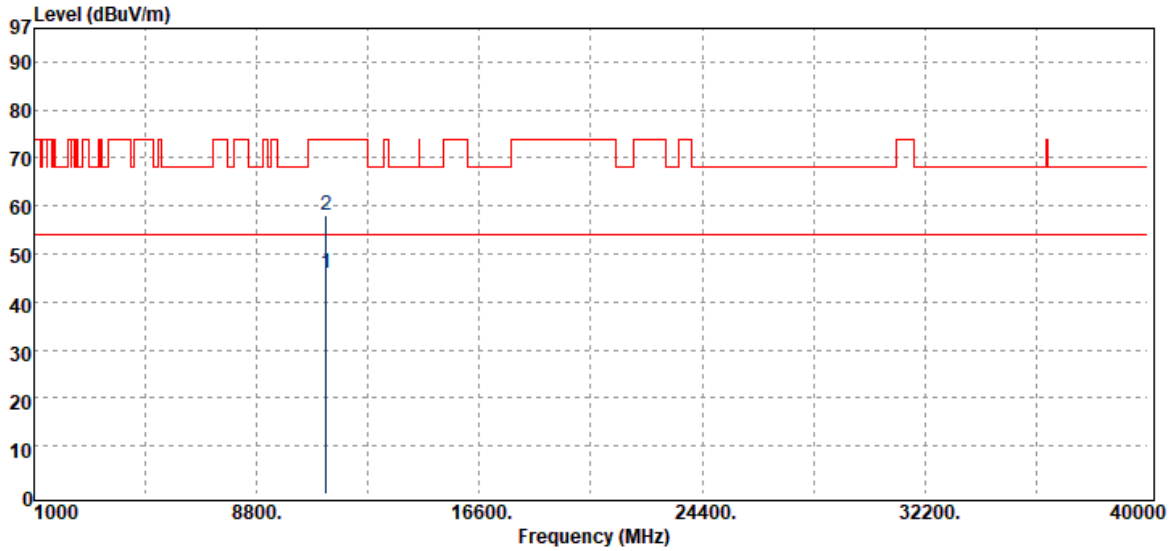
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/65
Test Frequency	:5610 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	Average	19.34	26.68	46.02	54.00	-7.98
11220.00	Peak	31.50	26.68	58.18	74.00	-15.82

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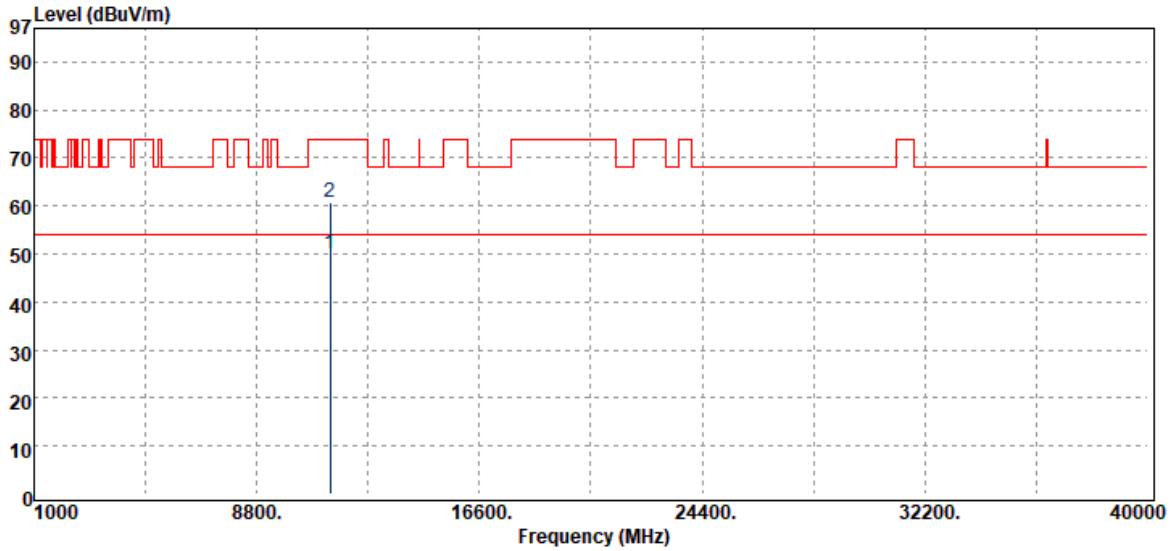
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/65
Test Frequency	:5690 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11380.00	Average	22.39	27.63	50.02	54.00	-3.98
11380.00	Peak	33.27	27.63	60.90	74.00	-13.10

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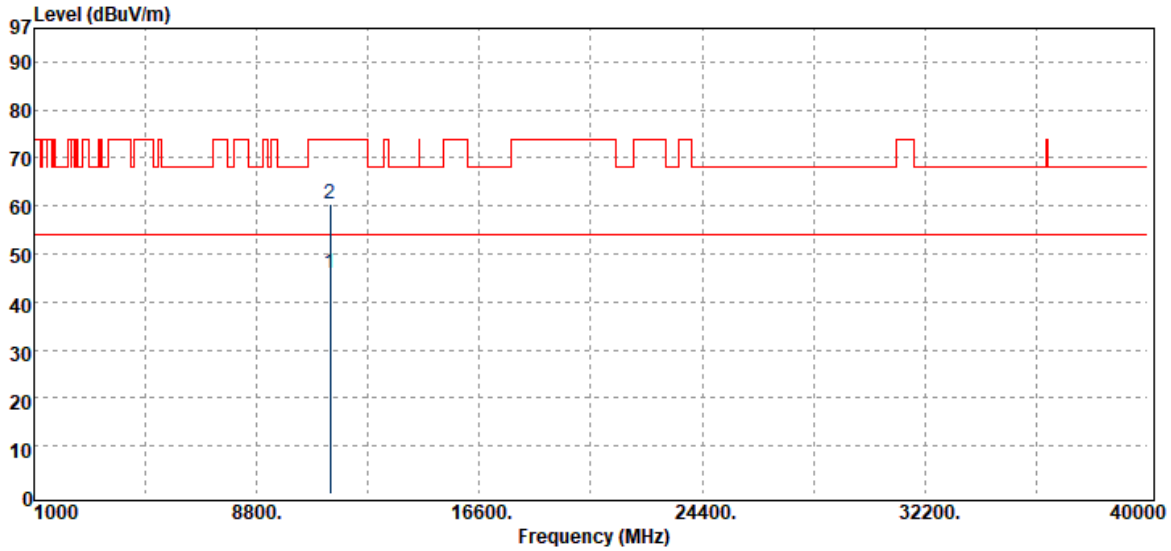
Report Number	:ER/2020/40011	Test Date	:2020-04-25
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/65
Test Frequency	:5690 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11380.00	Average	18.49	27.63	46.12	54.00	-7.88
11380.00	Peak	32.74	27.63	60.37	74.00	-13.63

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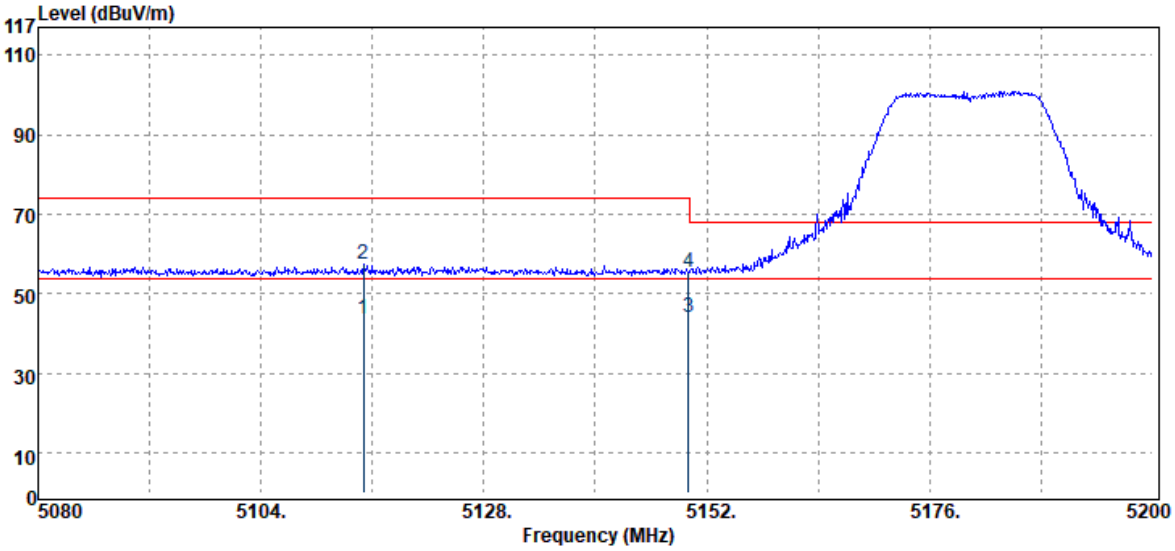
11.7.3 Band edge falling to restricted band

Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5115.04	Average	29.01	14.88	43.89	54.00	-10.11
5115.04	Peak	42.43	14.88	57.31	74.00	-16.69
5150.00	Average	29.17	14.83	44.00	54.00	-10.00
5150.00	Peak	40.83	14.83	55.66	74.00	-18.34

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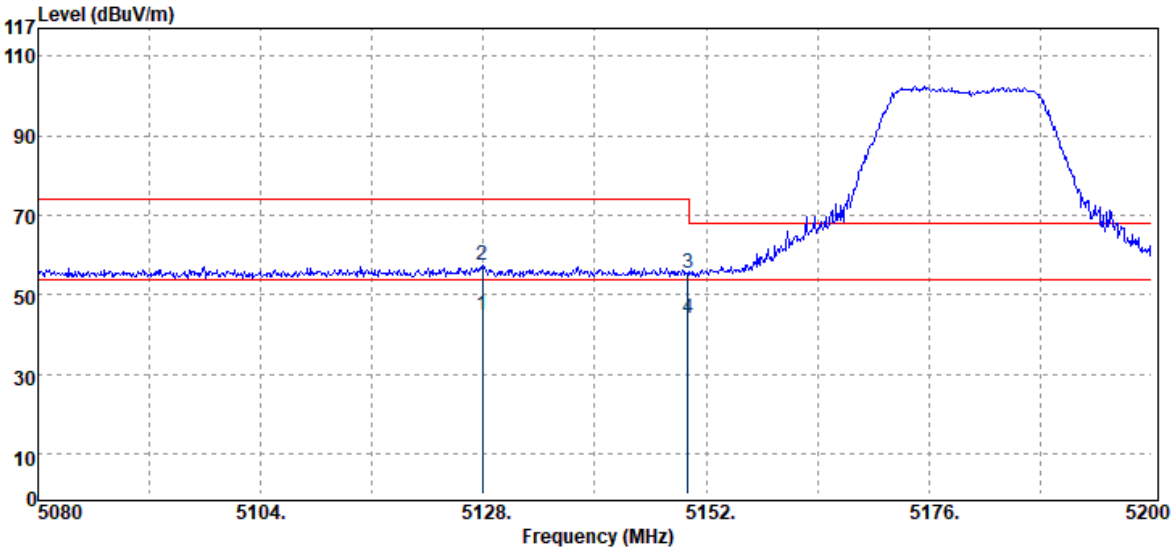
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB1	Temp./Humi.	:21.1/67
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5127.88	Average	30.11	14.87	44.98	54.00	-9.02
5127.88	Peak	42.68	14.87	57.55	74.00	-16.45
5150.00	Peak	40.69	14.83	55.52	74.00	-18.48
5150.00	Peak	29.21	14.83	44.04	74.00	-29.96

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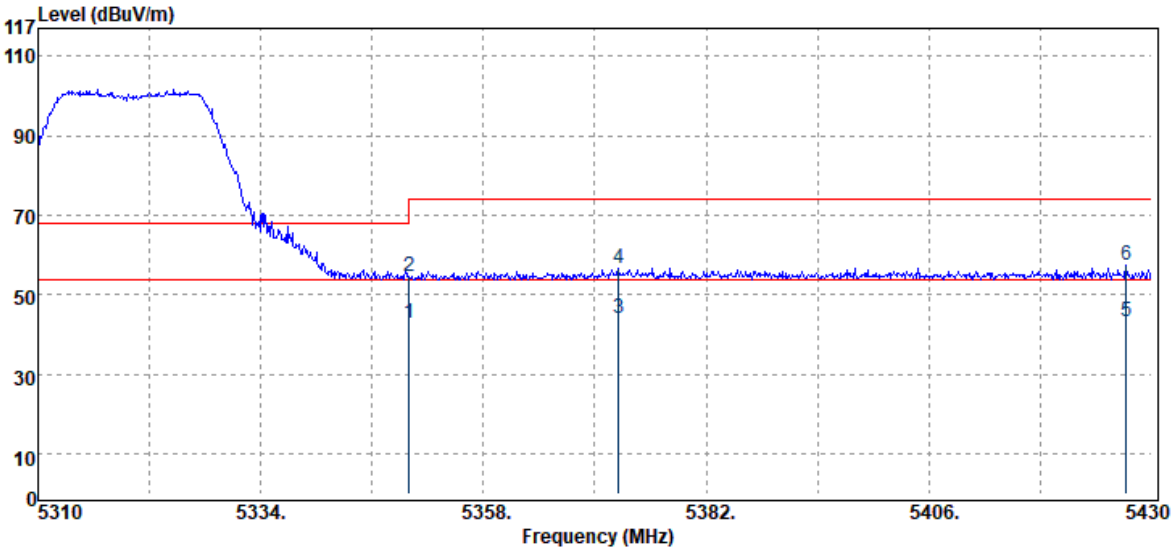
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	28.86	14.20	43.06	54.00	-10.94
5350.00	Peak	40.28	14.20	54.48	74.00	-19.52
5372.52	Average	29.65	14.43	44.08	54.00	-9.92
5372.52	Peak	42.31	14.43	56.74	74.00	-17.26
5427.24	Average	28.81	14.60	43.41	54.00	-10.59
5427.24	Peak	42.94	14.60	57.54	74.00	-16.46

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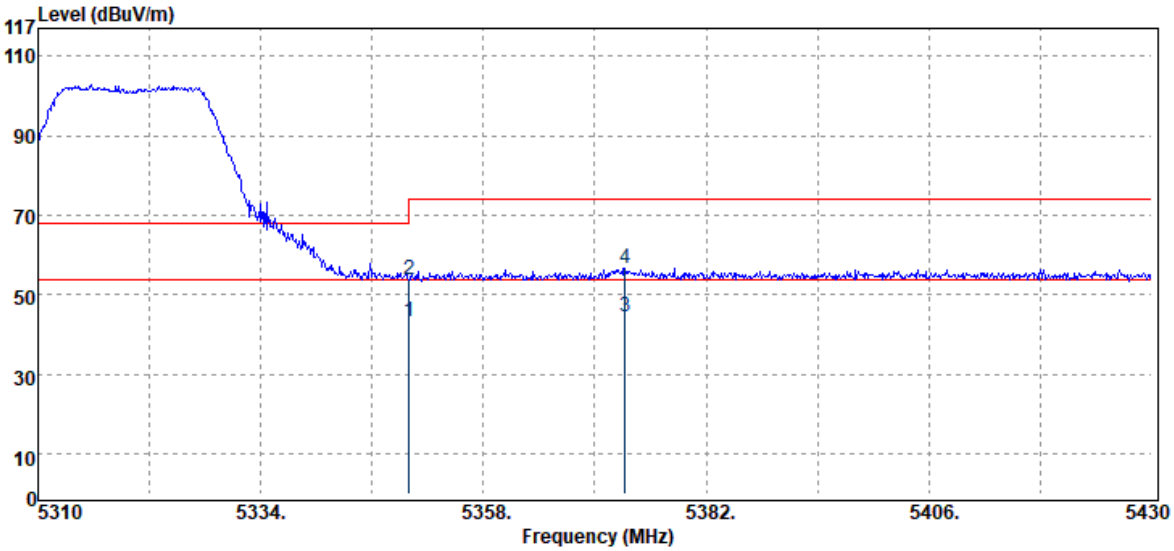
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB2	Temp./Humi.	:21.1/67
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	28.99	14.20	43.19	54.00	-10.81
5350.00	Peak	39.82	14.20	54.02	74.00	-19.98
5373.24	Average	30.27	14.43	44.70	54.00	-9.30
5373.24	Peak	42.12	14.43	56.55	74.00	-17.45

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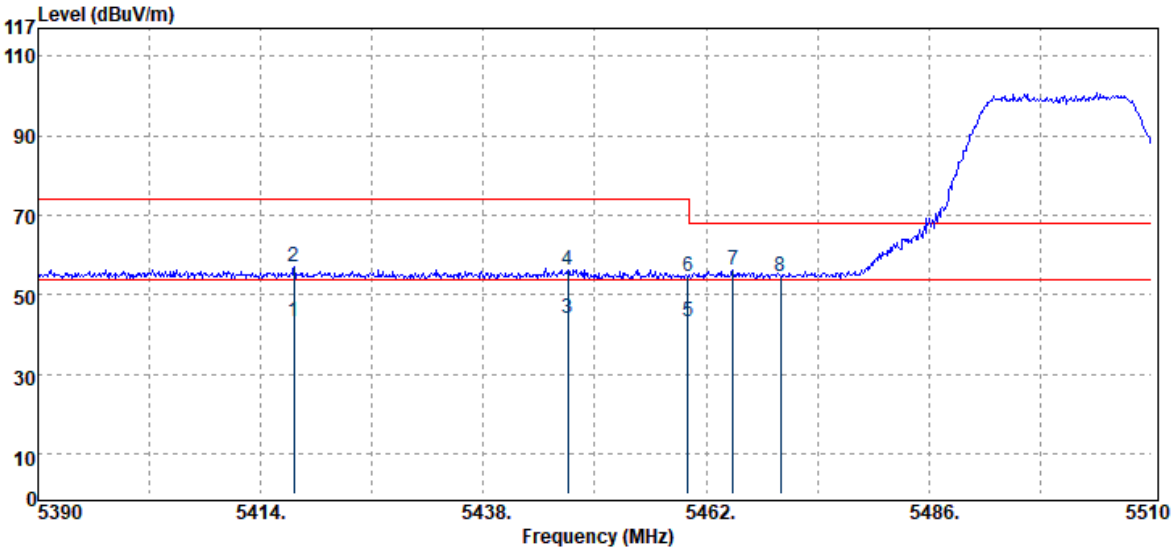
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/67
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5417.60	Average	28.84	14.63	43.47	54.00	-10.53
5417.60	Peak	42.40	14.63	57.03	74.00	-16.97
5447.12	Average	29.73	14.53	44.26	54.00	-9.74
5447.12	Peak	41.89	14.53	56.42	74.00	-17.58
5460.00	Average	28.65	14.57	43.22	54.00	-10.78
5460.00	Peak	39.94	14.57	54.51	74.00	-19.49
5464.88	Peak	41.56	14.59	56.15	68.20	-12.05
5470.00	Peak	40.19	14.61	54.80	68.20	-13.40

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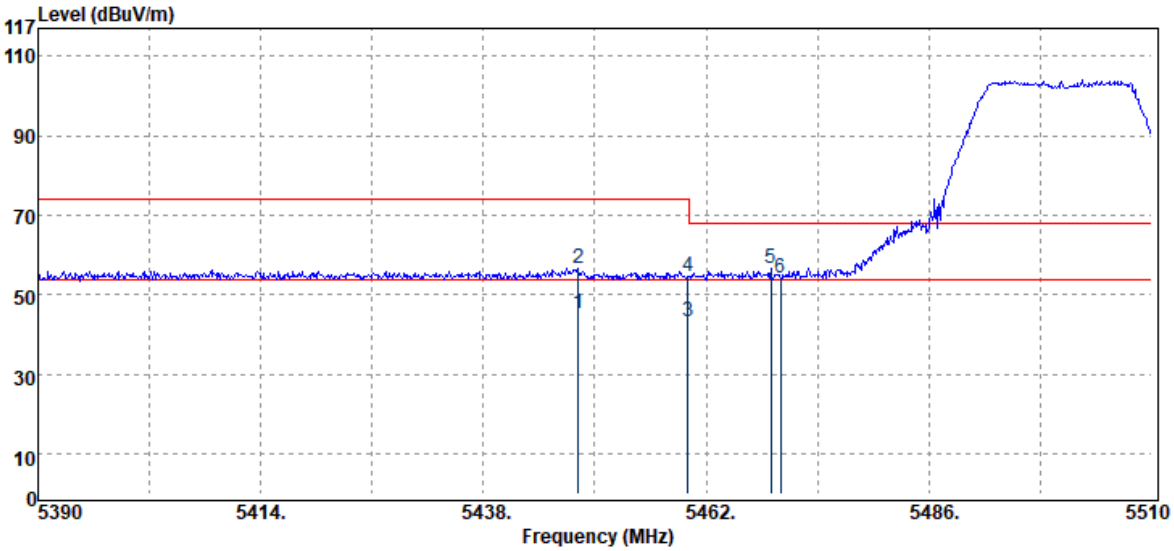
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/67
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5448.20	Average	30.74	14.53	45.27	54.00	-8.73
5448.20	Peak	42.18	14.53	56.71	74.00	-17.29
5460.00	Average	28.92	14.57	43.49	54.00	-10.51
5460.00	Peak	40.25	14.57	54.82	74.00	-19.18
5468.96	Peak	42.01	14.61	56.62	68.20	-11.58
5470.00	Peak	39.64	14.61	54.25	68.20	-13.95

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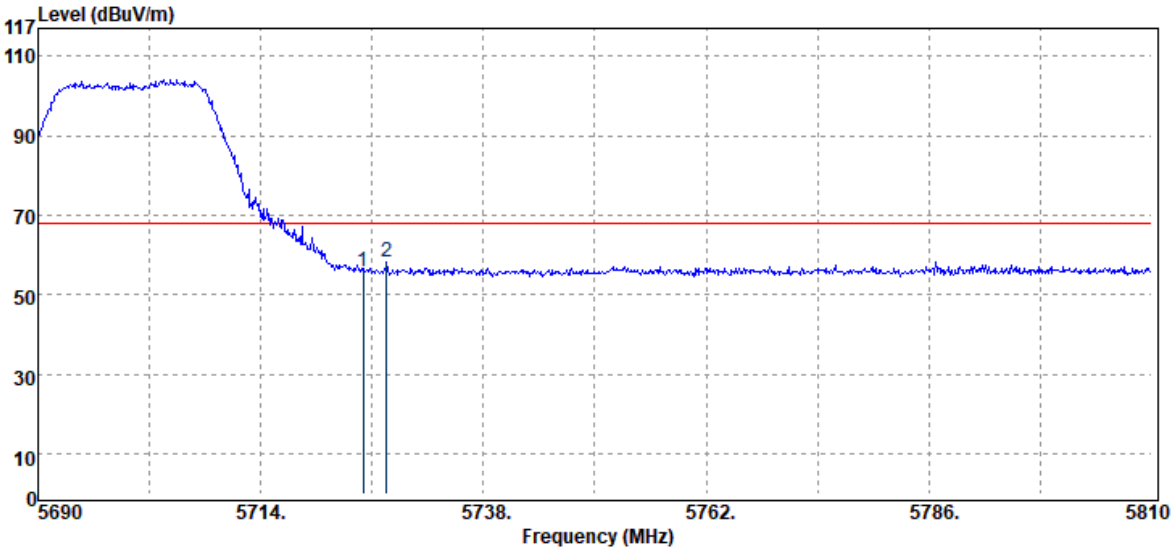
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/67
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	40.38	15.48	55.86	68.20	-12.34
5727.56	Peak	42.89	15.49	58.38	68.20	-9.82

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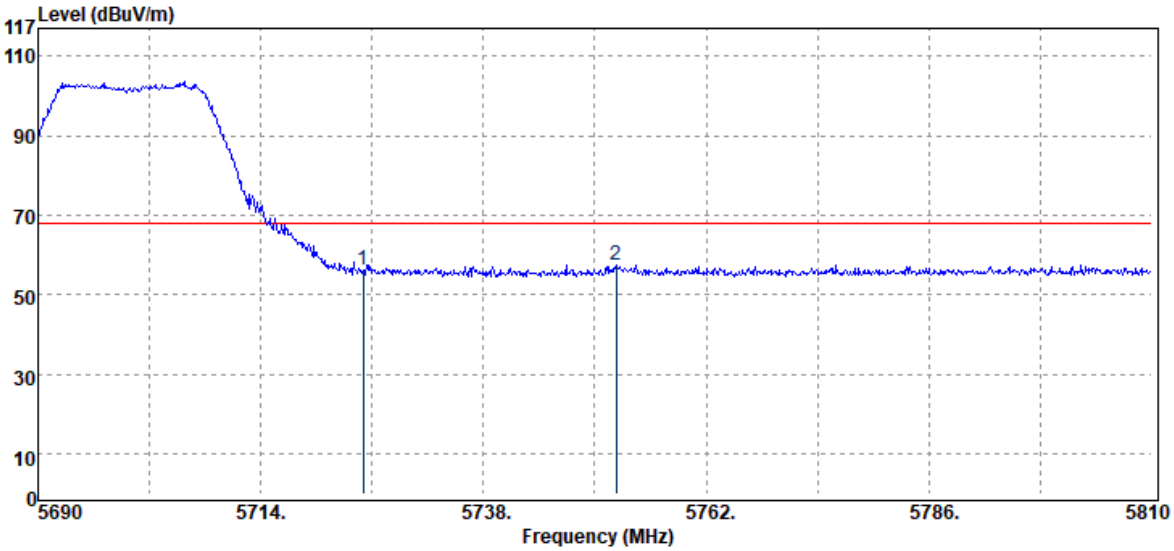
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11aB3	Temp./Humi.	:21.1/67
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	40.71	15.48	56.19	68.20	-12.01
5752.28	Peak	42.11	15.55	57.66	68.20	-10.54

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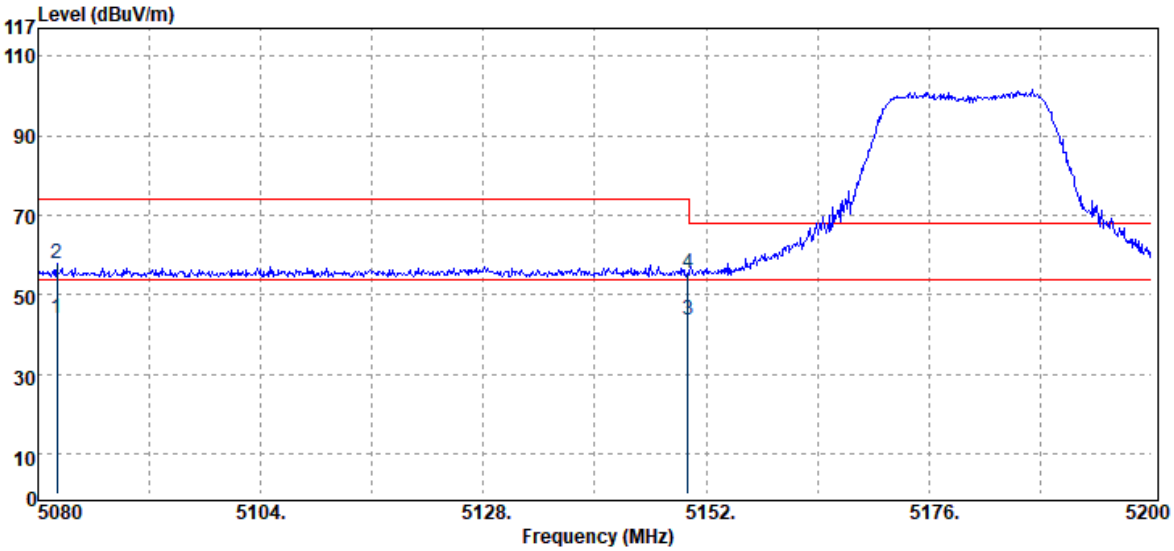
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/67
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5082.04	Average	29.12	14.90	44.02	54.00	-9.98
5082.04	Peak	42.84	14.90	57.74	74.00	-16.26
5150.00	Average	29.03	14.83	43.86	54.00	-10.14
5150.00	Peak	40.66	14.83	55.49	74.00	-18.51

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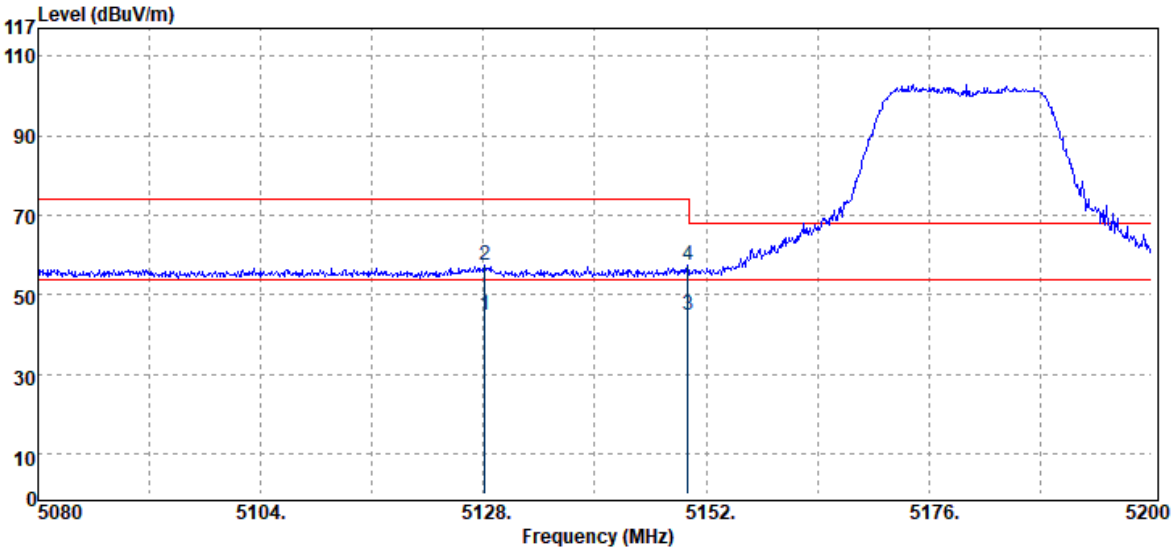
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B1	Temp./Humi.	:21.1/67
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5128.12	Average	30.15	14.87	45.02	54.00	-8.98
5128.12	Peak	42.45	14.87	57.32	74.00	-16.68
5150.00	Average	30.03	14.83	44.86	54.00	-9.14
5150.00	Peak	42.72	14.83	57.55	74.00	-16.45

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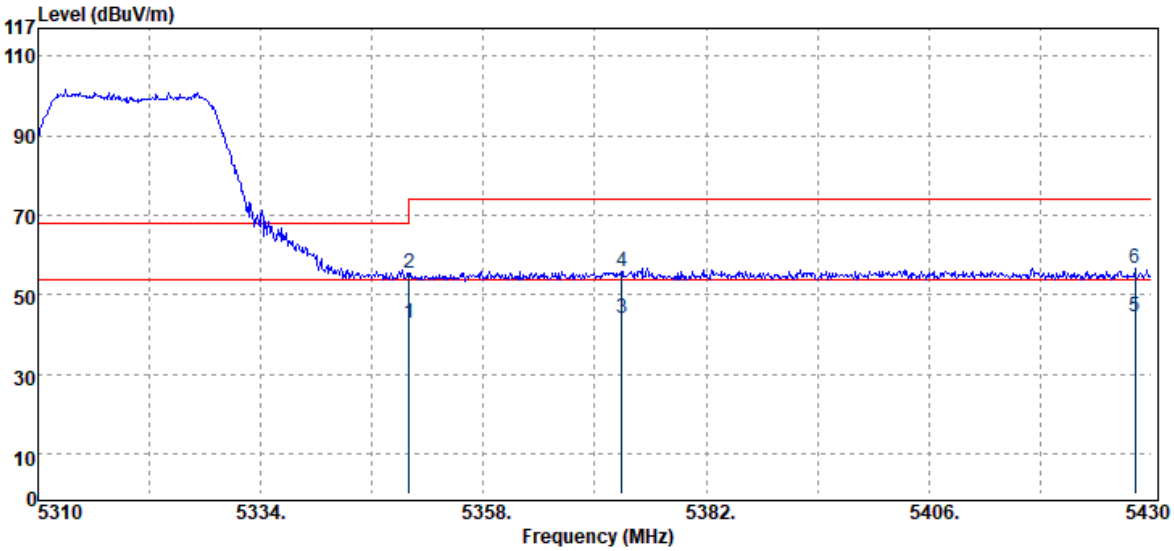
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/67
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	28.84	14.20	43.04	54.00	-10.96
5350.00	Peak	41.07	14.20	55.27	74.00	-18.73
5372.88	Average	29.83	14.43	44.26	54.00	-9.74
5372.88	Peak	41.50	14.43	55.93	74.00	-18.07
5428.20	Average	29.82	14.60	44.42	54.00	-9.58
5428.20	Peak	42.07	14.60	56.67	74.00	-17.33

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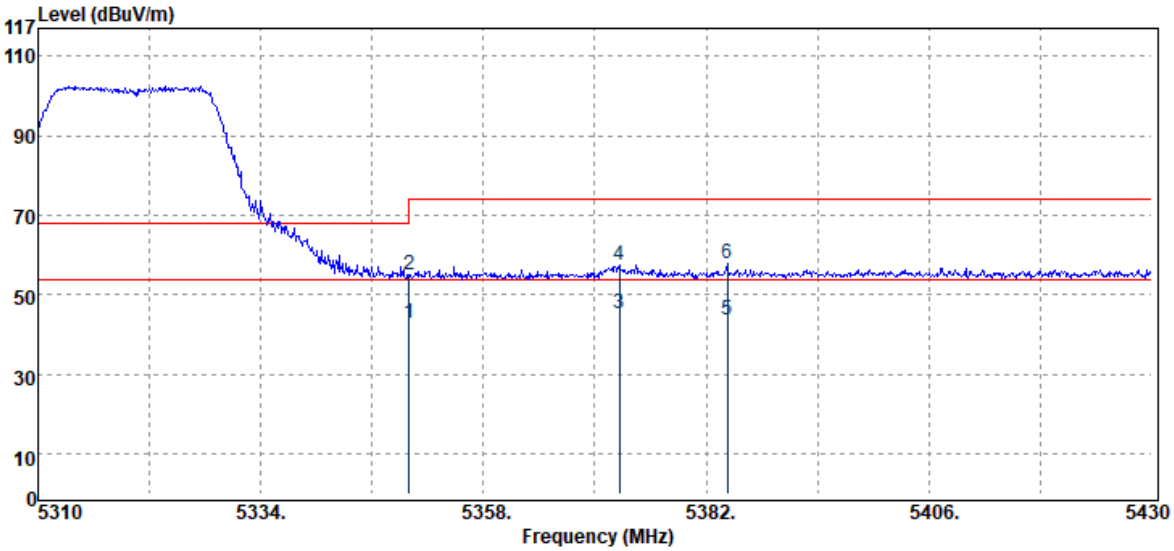
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B2	Temp./Humi.	:21.1/67
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	28.90	14.20	43.10	54.00	-10.90
5350.00	Peak	41.00	14.20	55.20	74.00	-18.80
5372.64	Average	30.84	14.43	45.27	54.00	-8.73
5372.64	Peak	42.86	14.43	57.29	74.00	-16.71
5384.28	Average	29.11	14.55	43.66	54.00	-10.34
5384.28	Peak	43.18	14.55	57.73	74.00	-16.27

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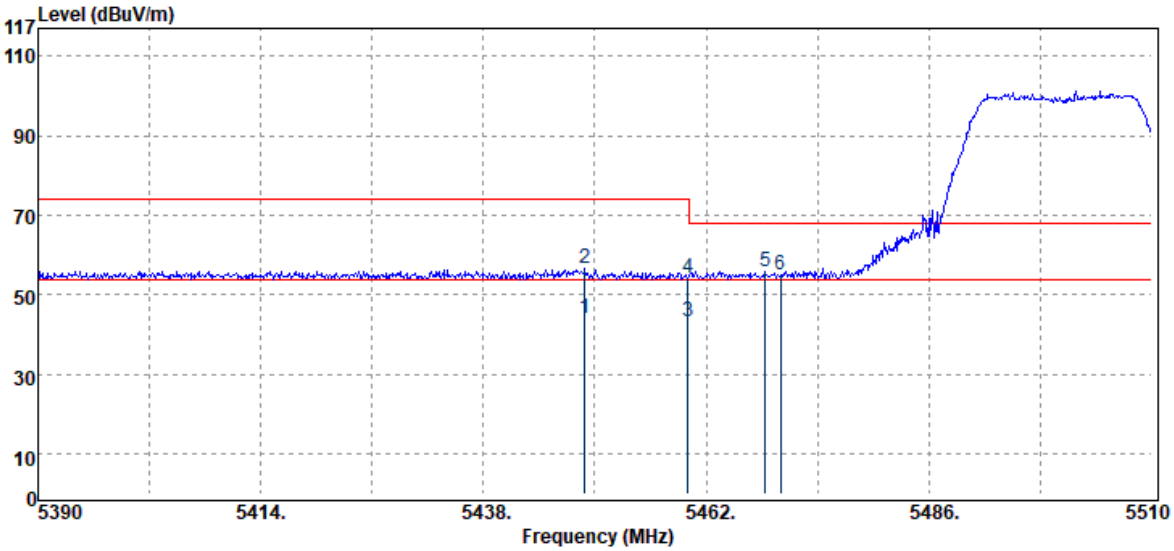
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/67
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5448.92	Average	29.76	14.52	44.28	54.00	-9.72
5448.92	Peak	42.19	14.52	56.71	74.00	-17.29
5460.00	Average	28.92	14.57	43.49	54.00	-10.51
5460.00	Peak	39.63	14.57	54.20	74.00	-19.80
5468.36	Peak	41.38	14.61	55.99	68.20	-12.21
5470.00	Peak	40.32	14.61	54.93	68.20	-13.27

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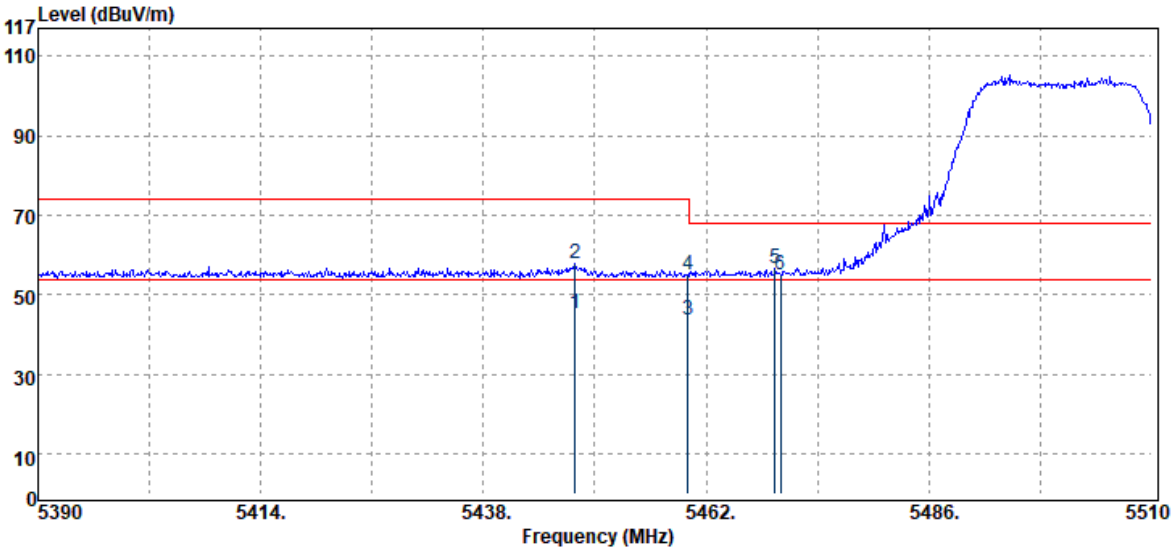
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/67
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5447.84	Average	30.83	14.53	45.36	54.00	-8.64
5447.84	Peak	43.27	14.53	57.80	74.00	-16.20
5460.00	Average	29.01	14.57	43.58	54.00	-10.42
5460.00	Peak	40.43	14.57	55.00	74.00	-19.00
5469.44	Peak	41.88	14.62	56.50	68.20	-11.70
5470.00	Peak	40.49	14.61	55.10	68.20	-13.10

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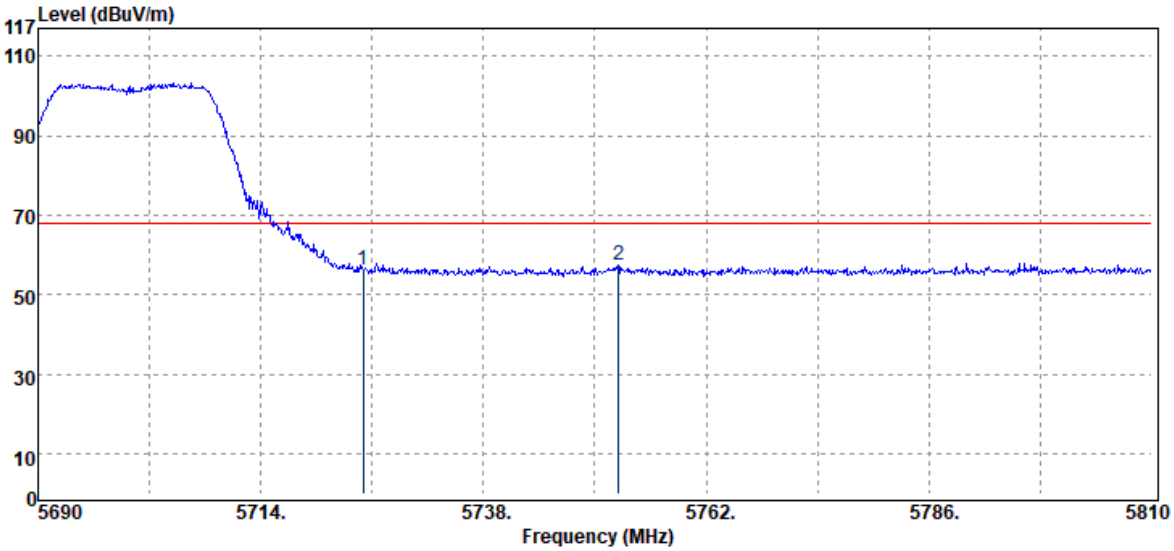
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/67
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	40.78	15.48	56.26	68.20	-11.94
5752.52	Peak	41.80	15.55	57.35	68.20	-10.85

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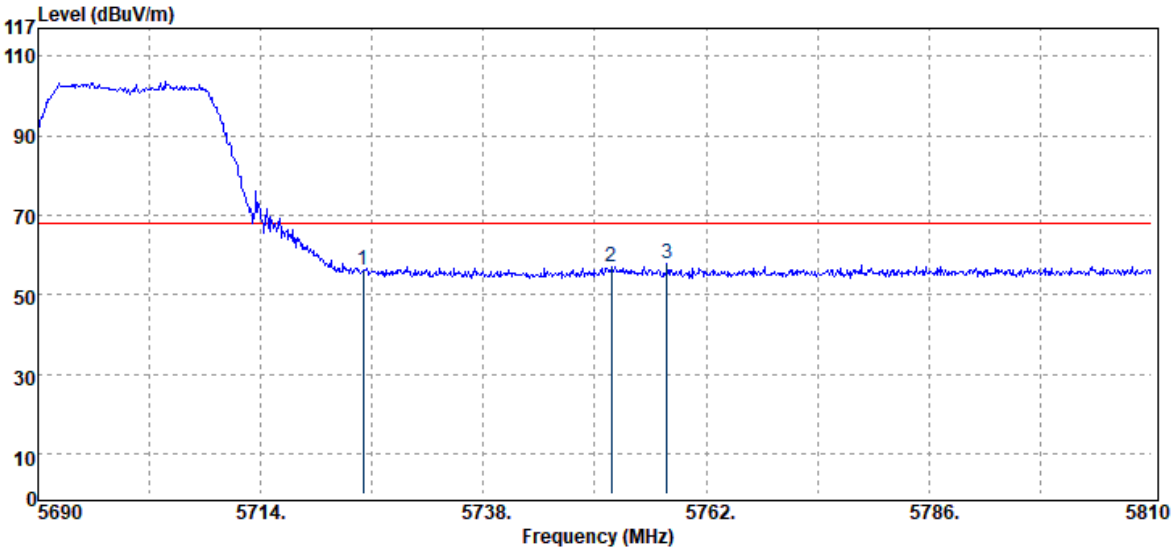
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n20B3	Temp./Humi.	:21.1/67
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	40.80	15.48	56.28	68.20	-11.92
5751.80	Peak	41.66	15.55	57.21	68.20	-10.99
5757.80	Peak	42.16	15.57	57.73	68.20	-10.47

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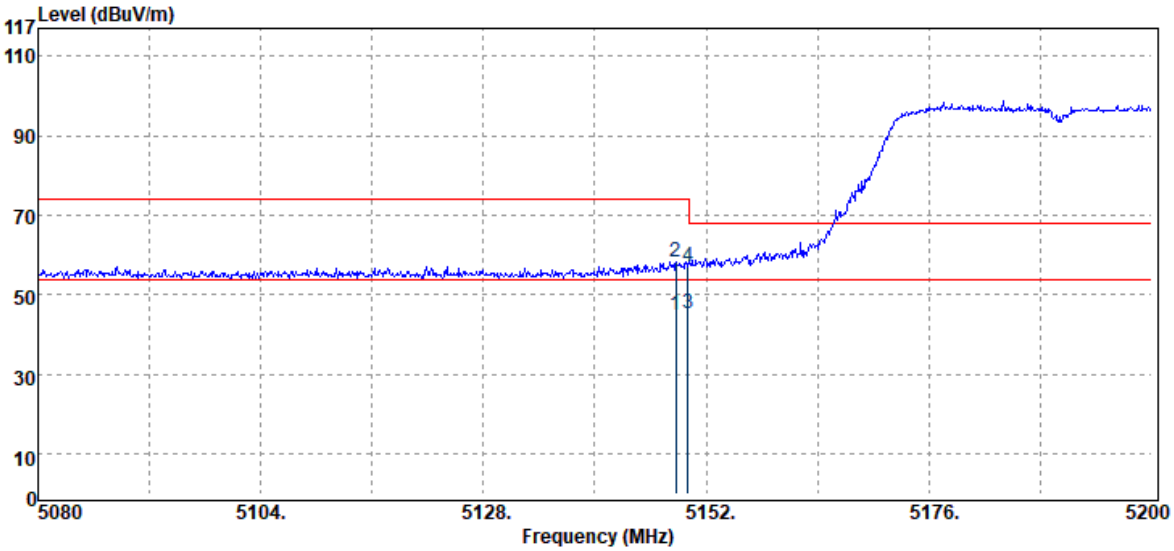
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B1	Temp./Humi.	:21.1/67
Test Frequency	:5190 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.76	Average	30.30	14.82	45.12	54.00	-8.88
5148.76	Peak	43.66	14.82	58.48	74.00	-15.52
5150.00	Average	30.42	14.83	45.25	54.00	-8.75
5150.00	Peak	42.31	14.83	57.14	74.00	-16.86

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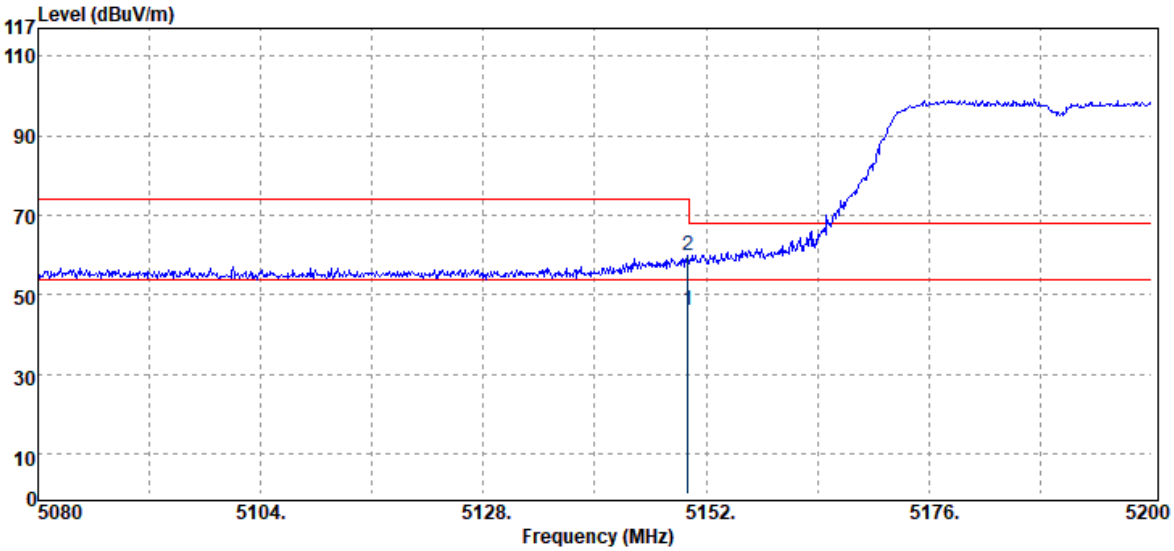
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B1	Temp./Humi.	:21.1/67
Test Frequency	:5190 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	31.32	14.83	46.15	54.00	-7.85
5150.00	Peak	45.08	14.83	59.91	74.00	-14.09

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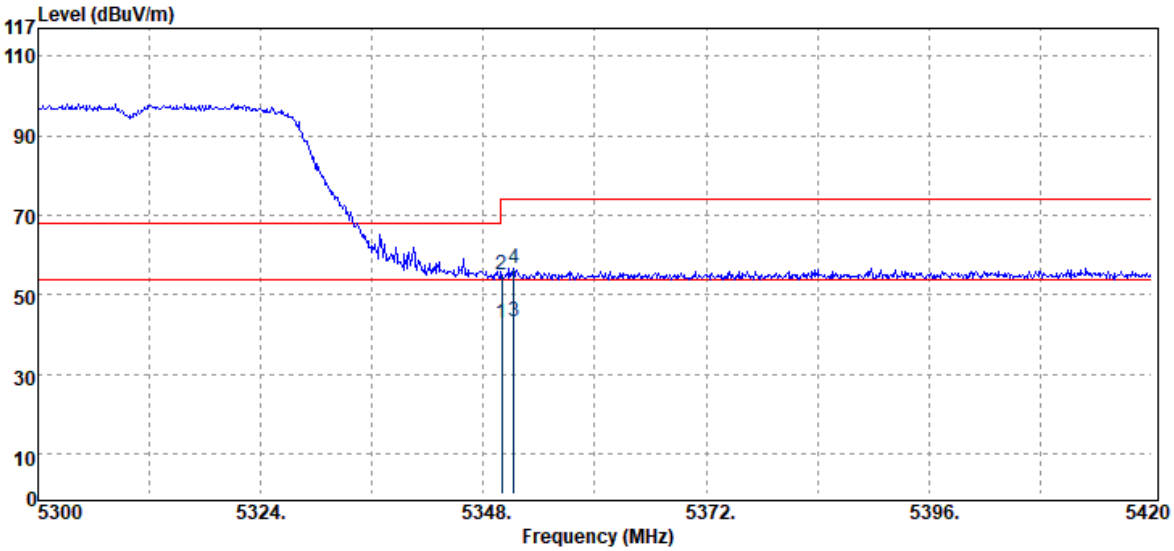
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B2	Temp./Humi.	:21.1/67
Test Frequency	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	28.91	14.20	43.11	54.00	-10.89
5350.00	Peak	41.03	14.20	55.23	74.00	-18.77
5351.24	Average	29.02	14.23	43.25	54.00	-10.75
5351.24	Peak	42.54	14.23	56.77	74.00	-17.23

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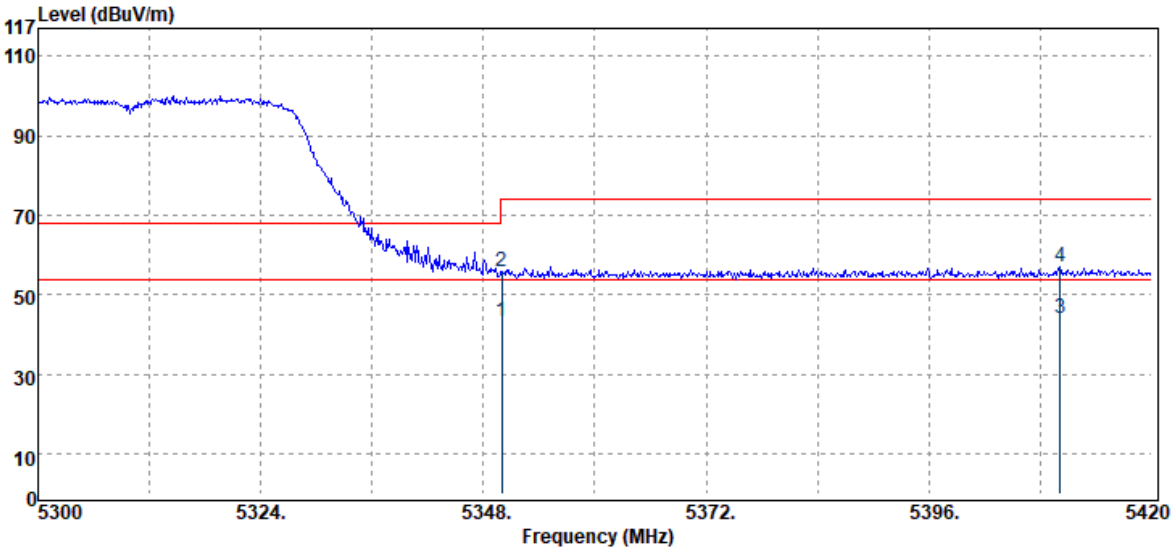
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B2	Temp./Humi.	:21.1/67
Test Frequency	:5310 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	29.13	14.20	43.33	54.00	-10.67
5350.00	Peak	41.68	14.20	55.88	74.00	-18.12
5410.16	Average	29.33	14.66	43.99	54.00	-10.01
5410.16	Peak	42.43	14.66	57.09	74.00	-16.91

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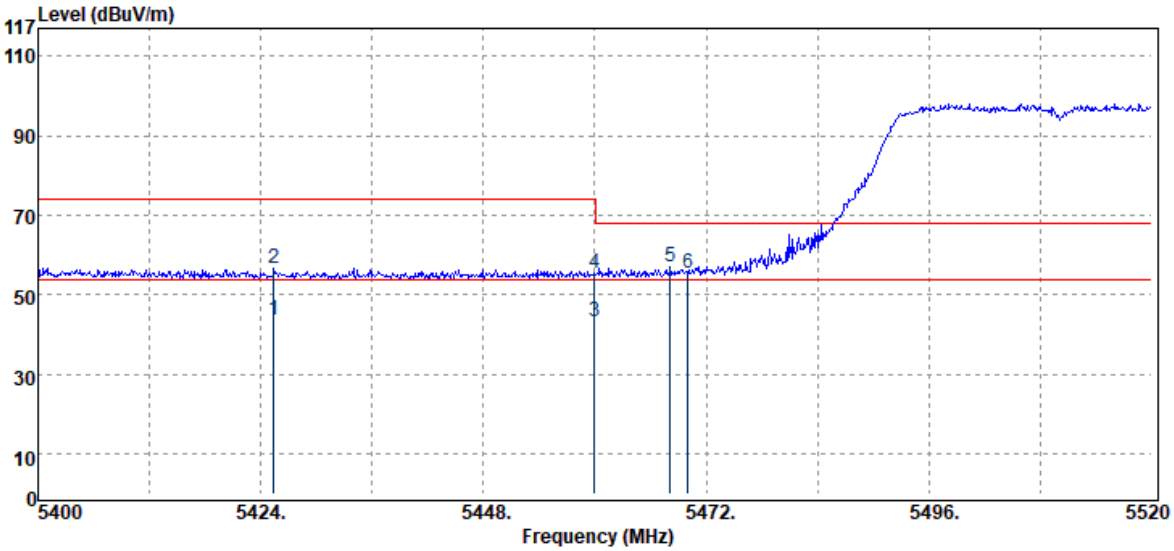
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/67
Test Frequency	:5510 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5425.44	Average	29.02	14.61	43.63	54.00	-10.37
5425.44	Peak	42.26	14.61	56.87	74.00	-17.13
5460.00	Average	28.79	14.57	43.36	54.00	-10.64
5460.00	Peak	40.91	14.57	55.48	74.00	-18.52
5468.16	Peak	42.52	14.61	57.13	68.20	-11.07
5470.00	Peak	40.80	14.61	55.41	68.20	-12.79

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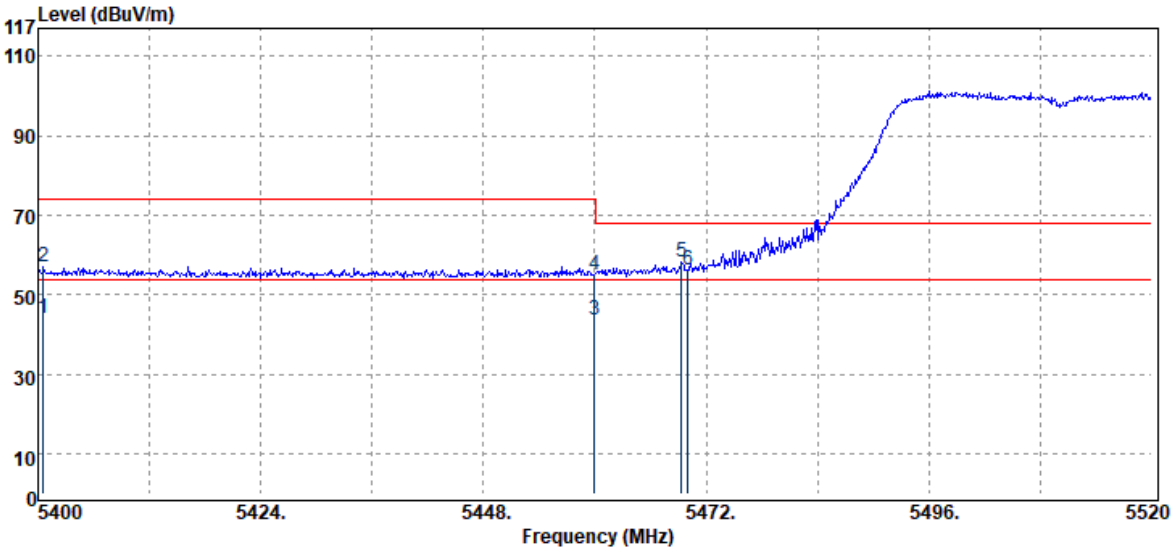
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/67
Test Frequency	:5510 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5400.60	Average	29.35	14.69	44.04	54.00	-9.96
5400.60	Peak	42.35	14.69	57.04	74.00	-16.96
5460.00	Average	29.02	14.57	43.59	54.00	-10.41
5460.00	Peak	40.38	14.57	54.95	74.00	-19.05
5469.36	Peak	43.61	14.62	58.23	68.20	-9.97
5470.00	Peak	41.71	14.61	56.32	68.20	-11.88

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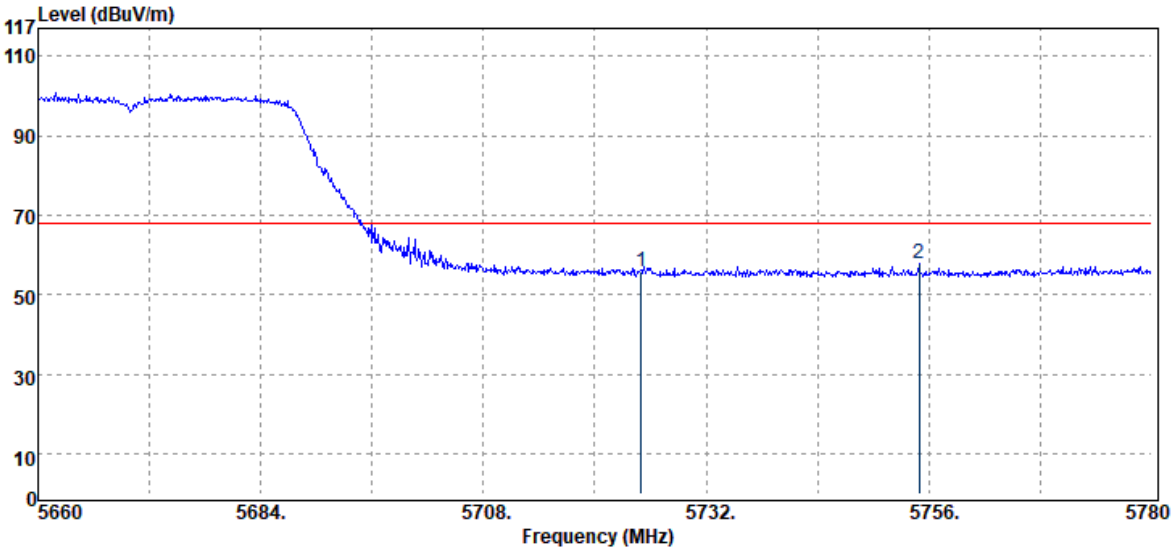
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/67
Test Frequency	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	40.45	15.48	55.93	68.20	-12.27
5754.92	Peak	42.28	15.57	57.85	68.20	-10.35

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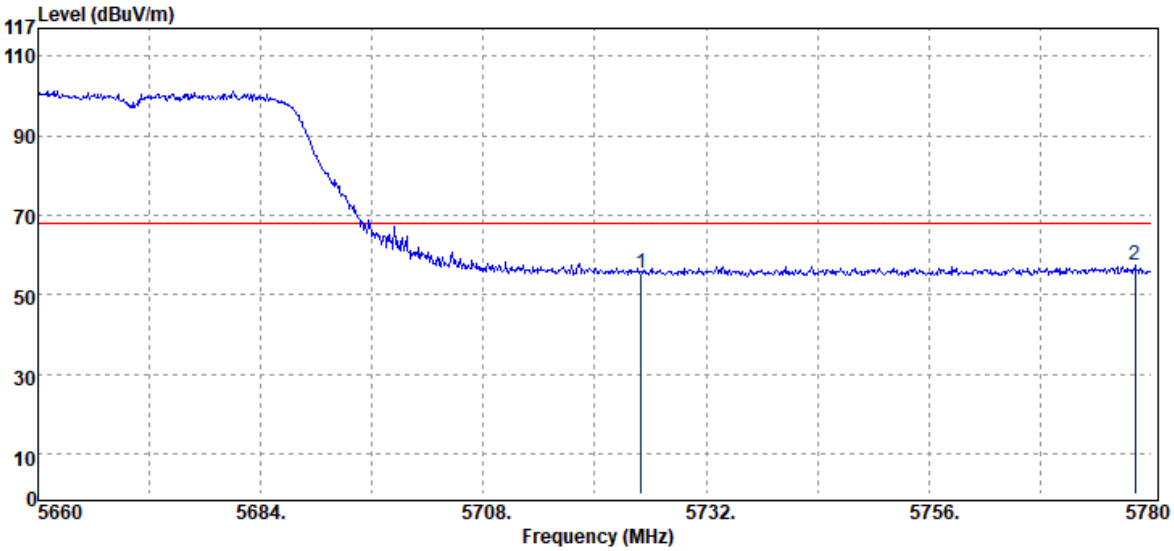
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11n40B3	Temp./Humi.	:21.1/67
Test Frequency	:5670 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	40.13	15.48	55.61	68.20	-12.59
5778.20	Peak	42.03	15.66	57.69	68.20	-10.51

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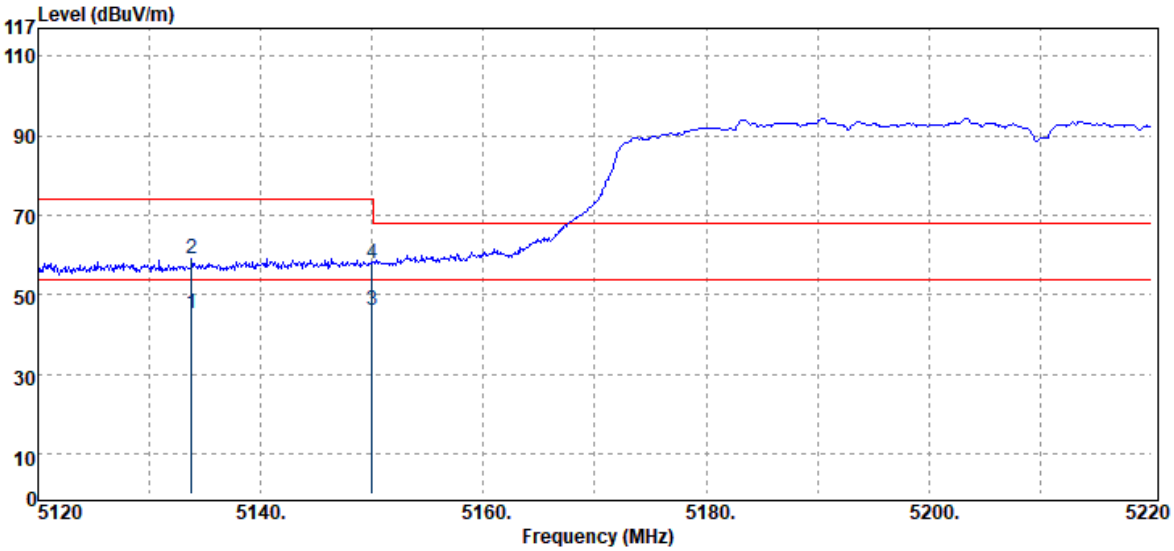
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11ac80B1	Temp./Humi.	:21.1/67
Test Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5133.80	Average	30.52	14.85	45.37	54.00	-8.63
5133.80	Peak	44.07	14.85	58.92	74.00	-15.08
5150.00	Average	31.16	14.83	45.99	54.00	-8.01
5150.00	Peak	43.12	14.83	57.95	74.00	-16.05

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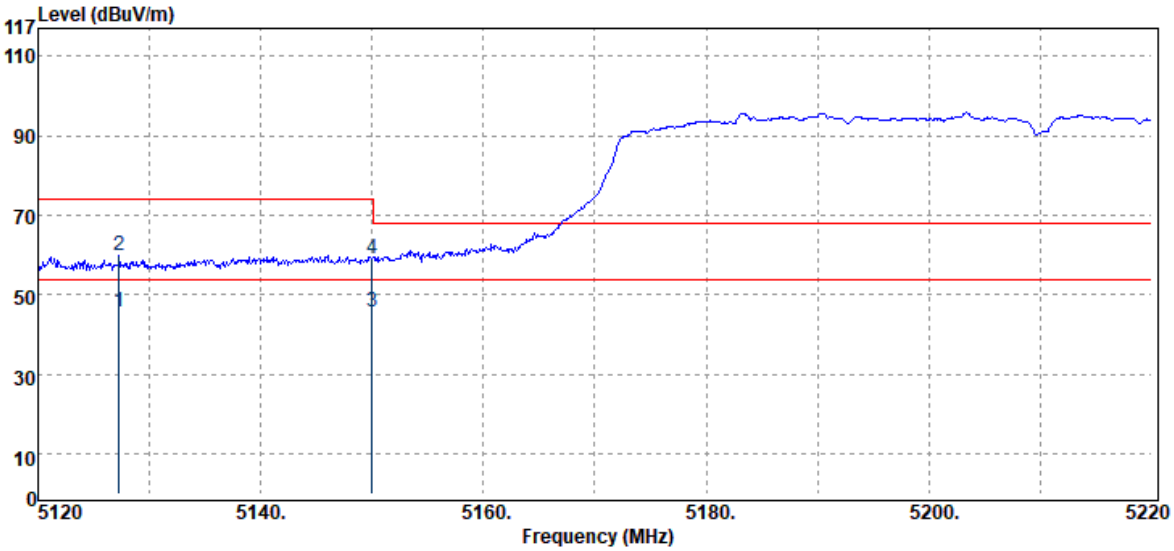
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11ac80B1	Temp./Humi.	:21.1/67
Test Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5127.30	Average	30.94	14.87	45.81	54.00	-8.19
5127.30	Peak	45.13	14.87	60.00	74.00	-14.00
5150.00	Average	31.12	14.83	45.95	54.00	-8.05
5150.00	Peak	44.08	14.83	58.91	74.00	-15.09

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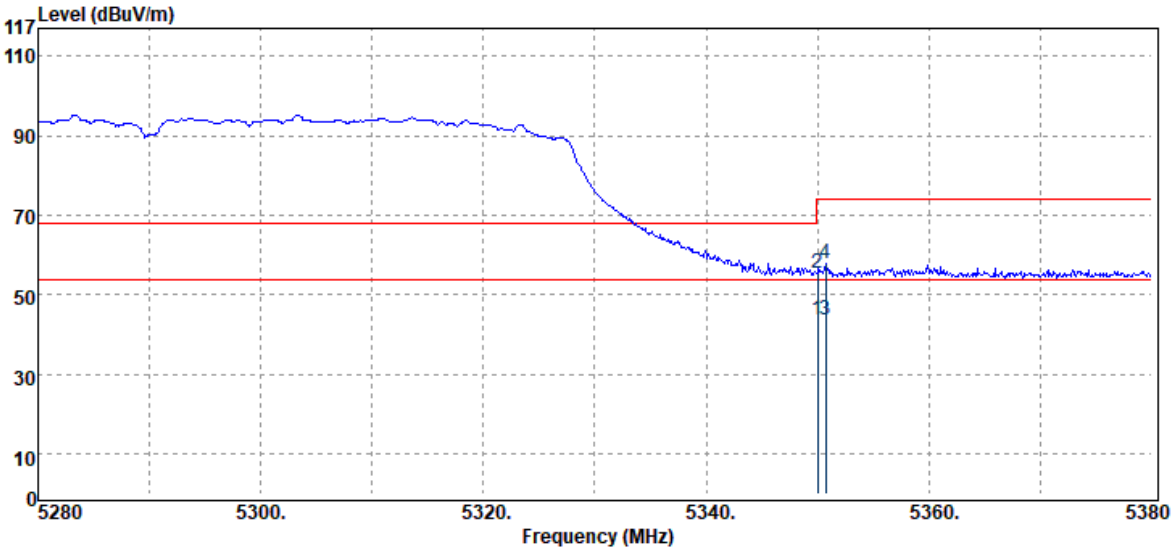
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11ac80B2	Temp./Humi.	:21.1/67
Test Frequency	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	29.36	14.20	43.56	54.00	-10.44
5350.00	Peak	41.20	14.20	55.40	74.00	-18.60
5350.70	Average	29.38	14.21	43.59	54.00	-10.41
5350.70	Peak	43.75	14.21	57.96	74.00	-16.04

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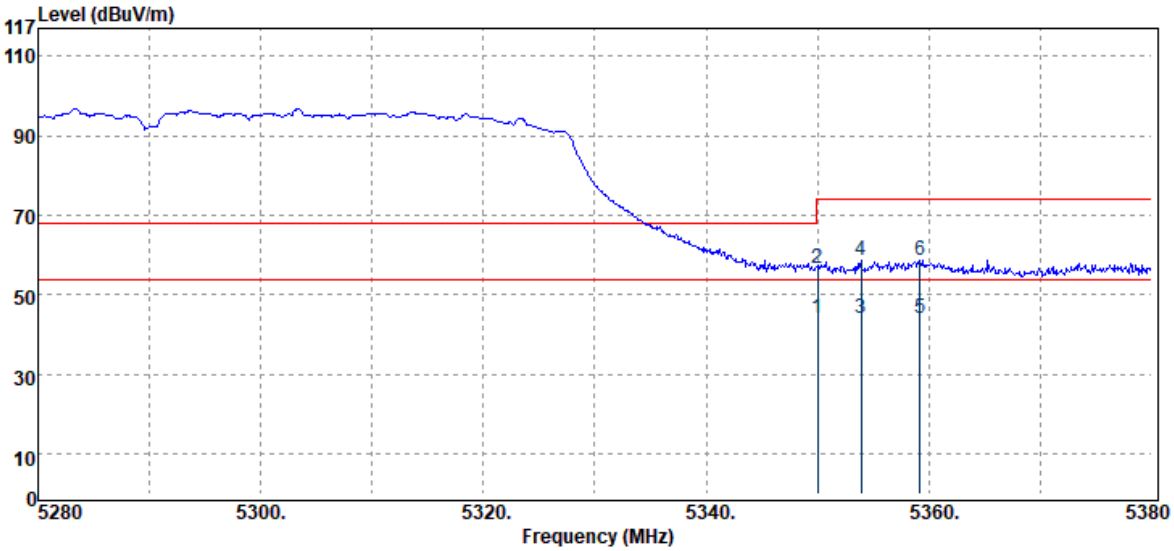
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11ac80B2	Temp./Humi.	:21.1/67
Test Frequency	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	29.95	14.20	44.15	54.00	-9.85
5350.00	Peak	42.44	14.20	56.64	74.00	-17.36
5353.90	Average	30.04	14.24	44.28	54.00	-9.72
5353.90	Peak	44.64	14.24	58.88	74.00	-15.12
5359.20	Average	29.75	14.31	44.06	54.00	-9.94
5359.20	Peak	44.27	14.31	58.58	74.00	-15.42

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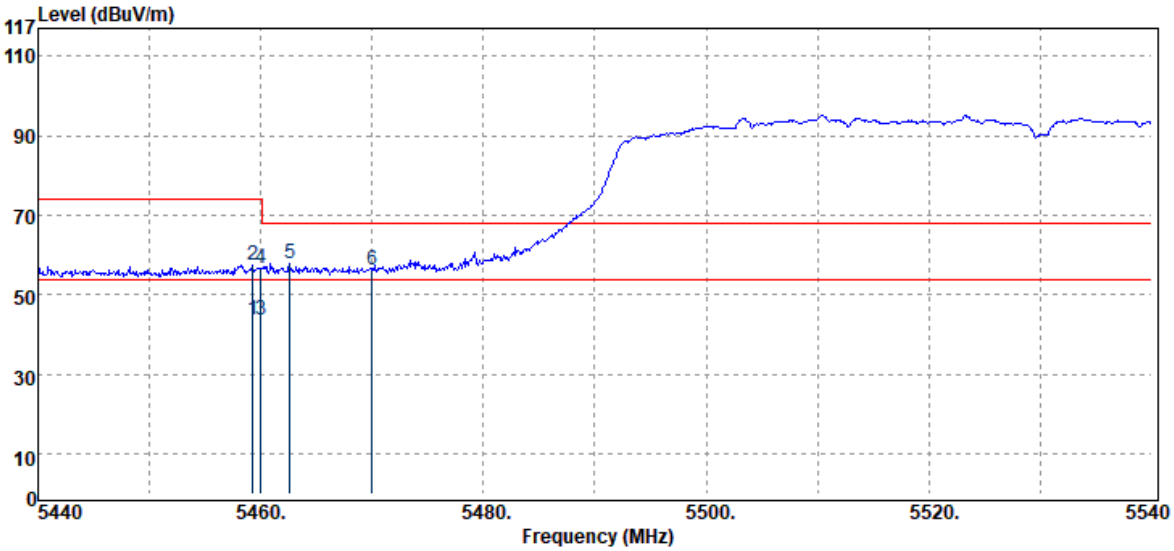
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/67
Test Frequency	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5459.30	Average	29.04	14.56	43.60	54.00	-10.40
5459.30	Peak	42.88	14.56	57.44	74.00	-16.56
5460.00	Average	29.33	14.57	43.90	54.00	-10.10
5460.00	Peak	42.29	14.57	56.86	74.00	-17.14
5462.60	Peak	43.39	14.58	57.97	68.20	-10.23
5470.00	Peak	41.69	14.61	56.30	68.20	-11.90

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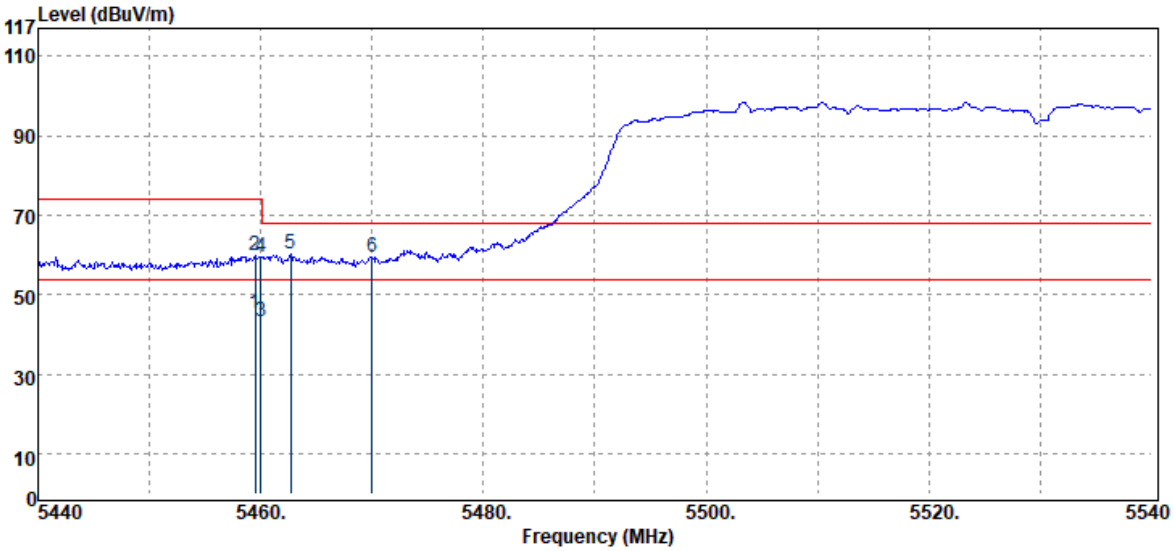
Report Number	:ER/2020/40011	Test Date	:2020-04-24
Operation Mode	:802.11ac80B3	Temp./Humi.	:21.1/67
Test Frequency	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:E1 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5459.50	Average	30.73	14.57	45.30	54.00	-8.70
5459.50	Peak	45.26	14.57	59.83	74.00	-14.17
5460.00	Average	28.77	14.57	43.34	54.00	-10.66
5460.00	Peak	44.90	14.57	59.47	74.00	-14.53
5462.70	Peak	45.81	14.58	60.39	68.20	-7.81
5470.00	Peak	44.87	14.61	59.48	68.20	-8.72

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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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t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw
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13 FREQUENCY STABILITY

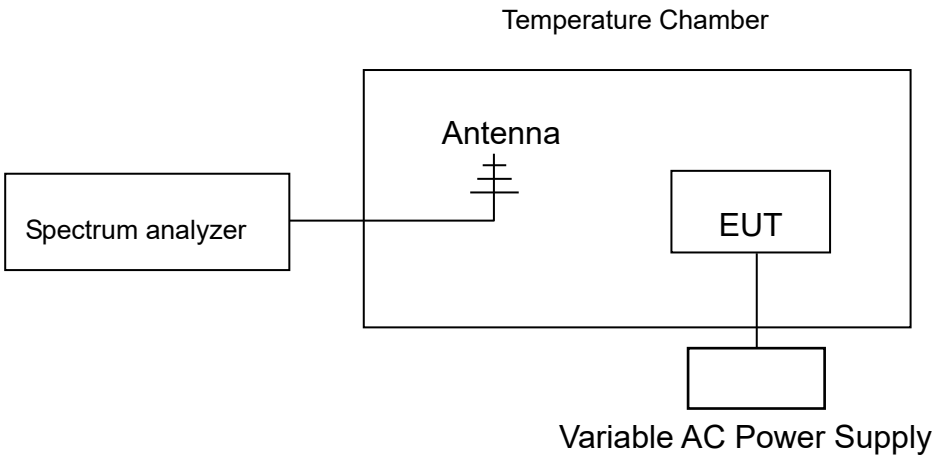
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
Temperature Chamber	TERCHY	MHG-120LF	911009	May 17th, 2019	May 16th, 2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	43951
Temperature	: 26.1℃	Test By	Thomas Wei
Humidity	: 58%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.99600	0.00000077
	3.51	36	5180	5,179.99507	0.00000095
25	3.8	36	5180	5,180.00875	-0.00000169
55	4.29	36	5180	5,180.00996	-0.00000192
	3.51	36	5180	5,180.00351	-0.00000068

2 minutes

Operation Mode	802.11 a	Test Date	43951
Temperature	: 26.1℃	Test By	Thomas Wei
Humidity	: 58%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.99458	0.00000105
	3.51	36	5180	5,179.99984	0.00000003
25	3.8	36	5180	5,180.00461	-0.00000089
55	4.29	36	5180	5,180.00194	-0.00000037
	3.51	36	5180	5,180.00652	-0.00000126

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5 minutes

Operation Mode	802.11 a	Test Date	43951
Temperature	: 26.1℃	Test By	Thomas Wei
Humidity	: 58%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.99646	0.00000068
	3.51	36	5180	5,180.00001	0.00000000
25	3.8	36	5180	5,180.00970	-0.00000187
55	4.29	36	5180	5,180.00875	-0.00000169
	3.51	36	5180	5,180.00955	-0.00000184

10 minutes

Operation Mode	802.11 a	Test Date	43951
Temperature	: 26.1℃	Test By	Thomas Wei
Humidity	: 58%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.99092	0.00000175
	3.51	36	5180	5,179.99685	0.00000061
25	3.8	36	5180	5,180.00398	-0.00000077
55	4.29	36	5180	5,180.00354	-0.00000068
	3.51	36	5180	5,180.00940	-0.00000182

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.
According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

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

~ End of Report ~

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