

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: CastleNet Technology Inc.
No. 14, Ln. 141, Sec. 3, Beishen Rd., Shenkeng Dist.,
New Taipei City 22244, Taiwan (R.O.C.)

Product Name: Wireless Cable Gateway

Brand Name: Castlenet

Model No.: CBV384Z4

Model Difference: N/A

Report Number: E2/2020/B0036

FCC ID RK9-CBV384Z4

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Feb. 23, 2021

Date of Test: Nov. 23, 2020 - Feb. 22, 2021

Date of EUT Received: Nov. 23, 2020

We hereby certify that:

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

Approved By: _____

Vito Pei
Vito Pei / Sr. Engineer



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/B0036	Rev.00	Original.	Feb. 23, 2021	Revised By: Yi-Shan 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:	Wireless Cable Gateway
Brand Name:	Castlenet
Model No.:	CBV384Z4
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
EUT Series No.:	N/A
Power Supply:	12Vdc from AC/DC Adapter

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	29.15	DSSS
g			29.53	OFDM
n_HT20			28.34	
n_HT40	2422-2452	7	28.09	
Modulation type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transission Rate	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 216.7Mbps 802.11 n_40MHz: 13.5 – 450.0Mbps			

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1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PCB	AnJie	CBV384Z4-AC2800	2412-2462	2.94	V
				2.61	
				2.93	

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

1.5 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 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 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

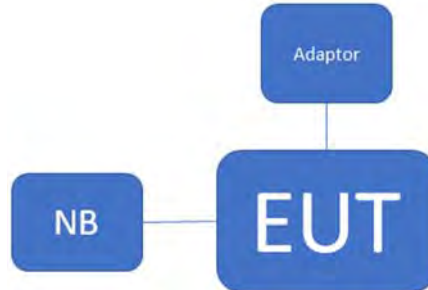


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

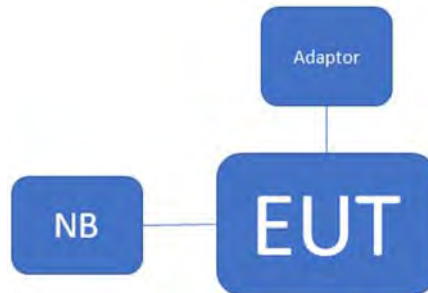


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	S0011721	N/A	N/A
3.	Adapter	MOSO	MS-V3000R120-036H0-US	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n 20M

9 channels are provided for 802.11n 40M

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

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 and receiving 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				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 3TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 3TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> 3TX 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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4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 11	6	OFDM	6	Ch2
802.11n 40M	3 to 9	6	OFDM	MCS16	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch2
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch2
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS16	MIMO
802.11n 40M	3 to 9	3, 6, 9	OFDM	MCS16	MIMO

Note:

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

4.4 Antenna Port Conducted Measurement:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch2
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch2
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS16	MIMO
802.11n 40M	3 to 9	3, 6, 9	OFDM	MCS16	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
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 150kHz to 30MHz 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

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

6.2 Measurement Equipment Used

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

6.3 EUT Setup

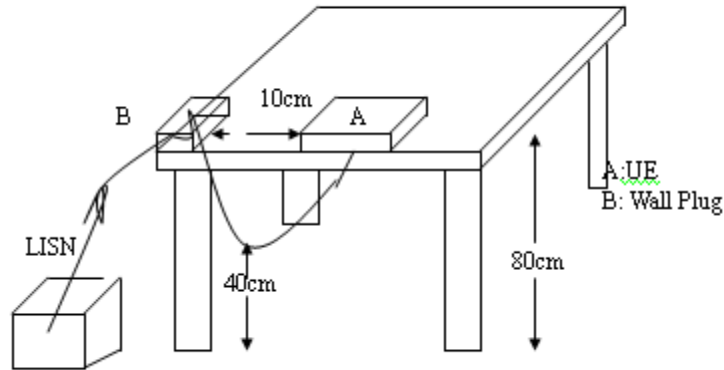
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

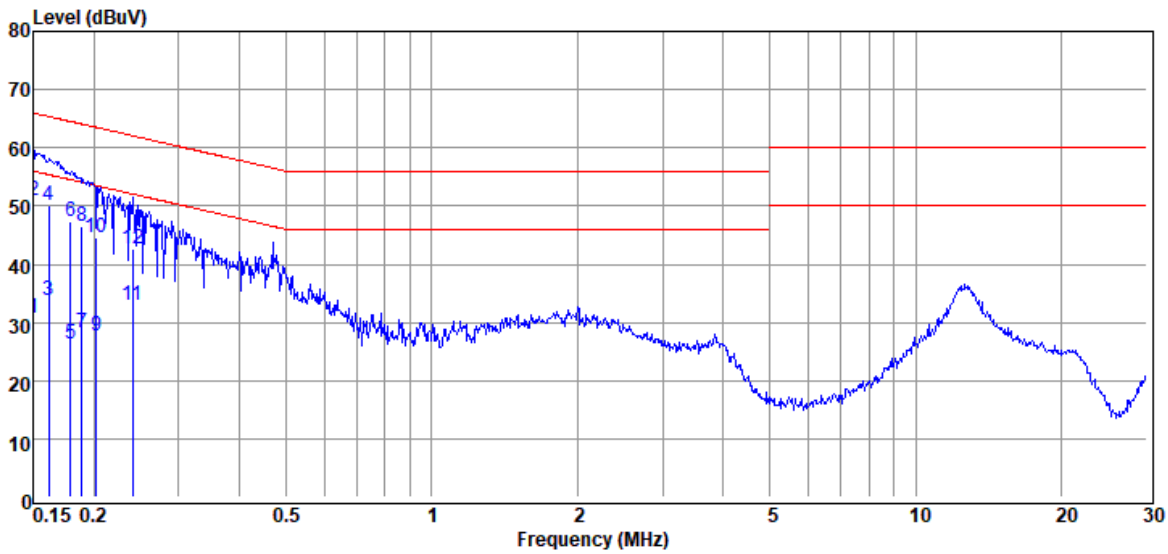
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:E2-2020-B0036	Test Site	:Conduction Room C
Test Mode	:WLAN 2.4G	Test Date	:2020-12-23
Power	:120V/60Hz	Temp./Humi.	:25.4/62
Probe	:L1	Engineer	:Ashton Chiu
Note:	: MS-V300R120-036H0-US		



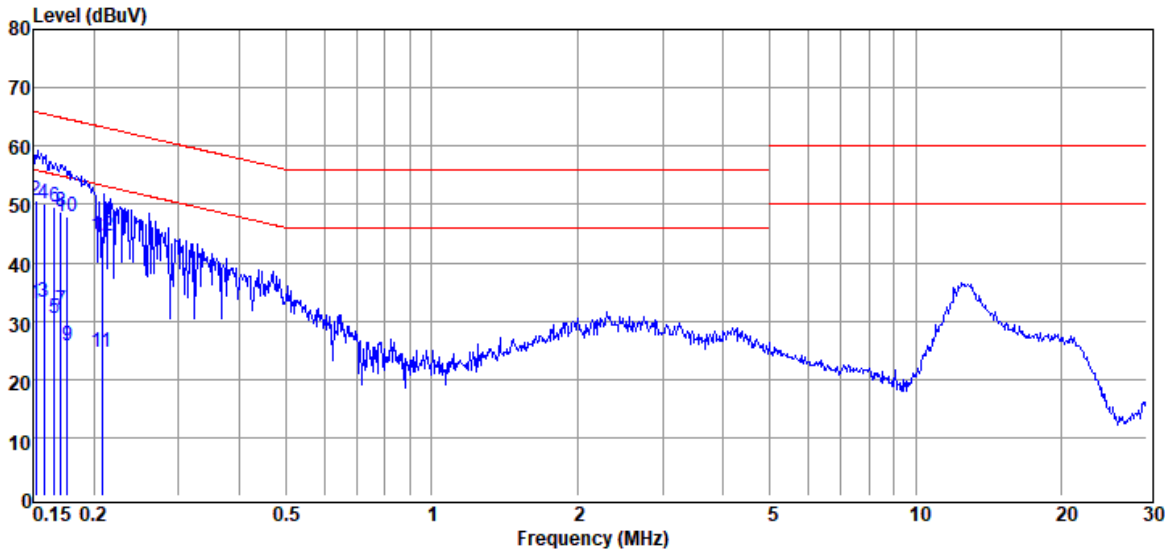
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBuV	dB
	PK/QP/AV	dBuV		dBuV		
0.15	Average	20.46	10.22	30.68	55.98	-25.30
0.15	QP	40.79	10.22	51.01	65.98	-14.97
0.16	Average	23.57	10.22	33.79	55.39	-21.60
0.16	QP	39.86	10.22	50.08	65.39	-15.31
0.18	Average	16.05	10.22	26.27	54.51	-28.24
0.18	QP	37.03	10.22	47.25	64.51	-17.26
0.19	Average	17.93	10.22	28.15	54.07	-25.92
0.19	QP	36.25	10.22	46.47	64.07	-17.60
0.20	Average	17.45	10.22	27.67	53.50	-25.83
0.20	QP	34.46	10.22	44.68	63.50	-18.82
0.24	Average	22.64	10.22	32.86	52.08	-19.22
0.24	QP	32.33	10.22	42.55	62.08	-19.53

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Report Number	:E2-2020-B0036	Test Site	:Conduction Room C
Test Mode	:WLAN 2.4G	Test Date	:2020-12-23
Power	:120V/60Hz	Temp./Humi.	:25.4/62
Probe	:N	Engineer	:Ashton Chiu
Note:	: MS-V300R120-036H0-US		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.15	Average	22.68	10.21	32.89	55.89	-23.00
0.15	QP	40.54	10.21	50.75	65.89	-15.14
0.16	Average	22.94	10.21	33.15	55.56	-22.41
0.16	QP	40.01	10.21	50.22	65.56	-15.34
0.17	Average	20.35	10.21	30.56	55.17	-24.61
0.17	QP	39.45	10.21	49.66	65.17	-15.51
0.17	Average	21.57	10.21	31.78	54.91	-23.13
0.17	QP	38.54	10.21	48.75	64.91	-16.16
0.18	Average	15.43	10.21	25.64	54.64	-29.00
0.18	QP	37.61	10.21	47.82	64.64	-16.82
0.21	Average	14.49	10.21	24.70	53.28	-28.58
0.21	QP	34.42	10.21	44.63	63.28	-18.65

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7 DUTY CYCLE OF 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

7.2 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	95.10	0.22	0.08	1.00
802.11g	95.07	0.22	0.48	1.00
802.11n_20	87.23	0.59	1.48	2.00
802.11n_40	90.60	0.43	1.06	2.00

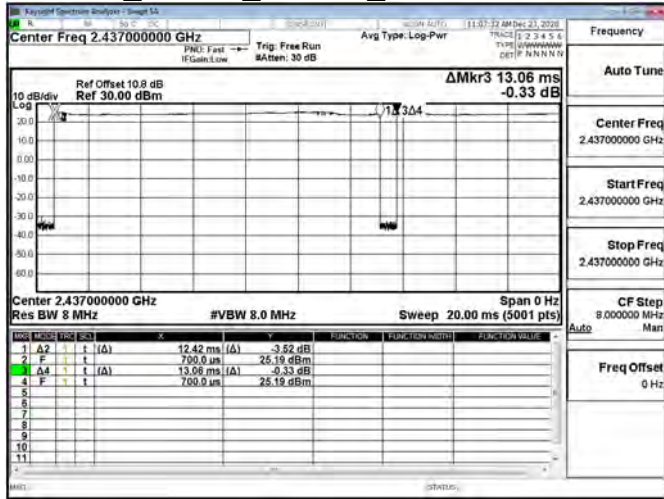
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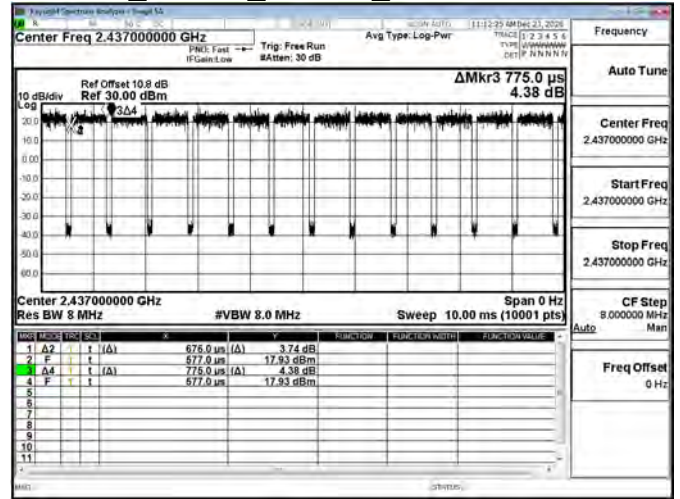
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7.3 Duty Cycle test plots

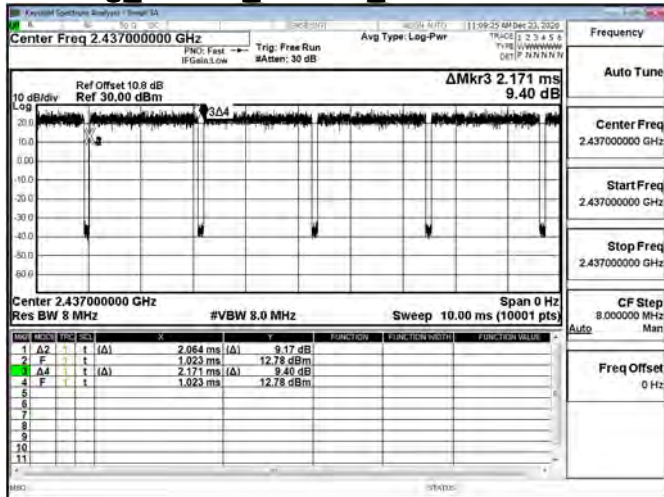
802.11b_20MHz_Chain0_2437MHz



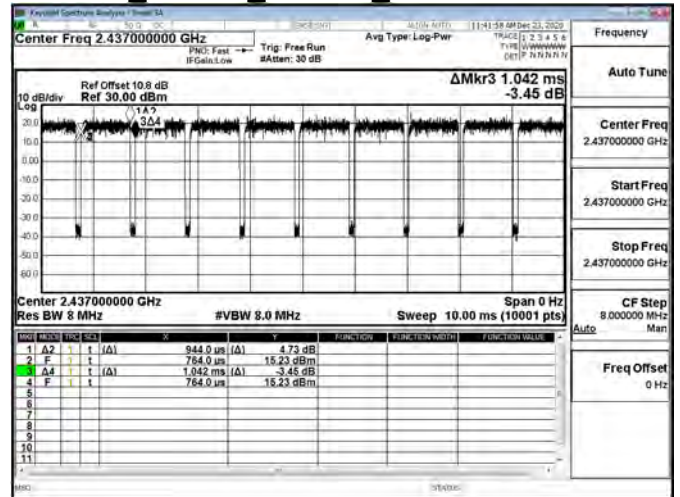
802.11n_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11n_40MHz_Chain0_2437MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is grater than 6 dBi , therefore the limit needs to be reduced as below:

Frequency (MHz)	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
2412~2462	7.60	28.40

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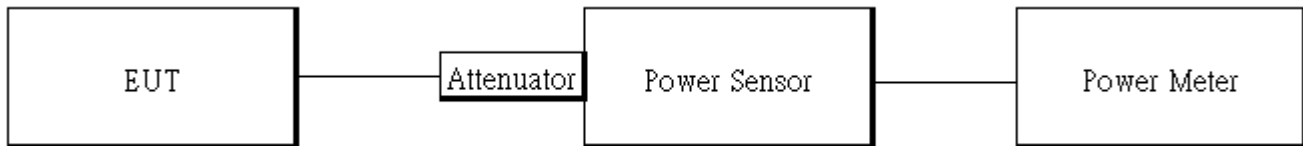
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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8.5 Measurement Result

802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	29.15	30.00	PASS
6	2437	1	28.85	30.00	PASS
11	2462	1	28.91	30.00	PASS

802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	25.83	30.00	PASS
6	2437	1	25.64	30.00	PASS
11	2462	1	25.67	30.00	PASS

802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	28.75	30.00	PASS
6	2437	1	28.71	30.00	PASS
11	2462	1	28.73	30.00	PASS

802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	25.69	30.00	PASS
6	2437	1	25.60	30.00	PASS
11	2462	1	25.63	30.00	PASS

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802.11b Ch2					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	29.15	30.00	PASS
6	2437	1	29.05	30.00	PASS
11	2462	1	28.93	30.00	PASS
802.11b Ch2					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	25.99	30.00	PASS
6	2437	1	25.73	30.00	PASS
11	2462	1	25.69	30.00	PASS

802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	29.34	30.00	PASS
6	2437	6	28.84	30.00	PASS
11	2462	6	29.32	30.00	PASS
802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	20.76	30.00	PASS
6	2437	6	20.53	30.00	PASS
11	2462	6	20.44	30.00	PASS

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802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	27.98	30.00	PASS
6	2437	6	27.41	30.00	PASS
11	2462	6	27.94	30.00	PASS
802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	20.69	30.00	PASS
6	2437	6	20.51	30.00	PASS
11	2462	6	20.40	30.00	PASS

802.11g Ch2					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	29.45	30.00	PASS
6	2437	6	29.41	30.00	PASS
11	2462	6	29.53	30.00	PASS
802.11g Ch2					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	20.84	30.00	PASS
6	2437	6	20.58	30.00	PASS
11	2462	6	20.46	30.00	PASS

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802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	28.11	30.00	PASS
6	2437	MCS0	27.59	30.00	PASS
11	2462	MCS0	26.89	30.00	PASS
802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	20.01	30.00	PASS
6	2437	MCS0	19.03	30.00	PASS
11	2462	MCS0	19.00	30.00	PASS

802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	28.01	30.00	PASS
6	2437	MCS0	27.61	30.00	PASS
11	2462	MCS0	26.96	30.00	PASS
802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	20.07	30.00	PASS
6	2437	MCS0	19.00	30.00	PASS
11	2462	MCS0	18.98	30.00	PASS

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802.11n_HT20M Ch2					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	28.12	30.00	PASS
6	2437	MCS0	27.66	30.00	PASS
11	2462	MCS0	27.01	30.00	PASS
802.11n_HT20M Ch2					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	20.16	30.00	PASS
6	2437	MCS0	19.05	30.00	PASS
11	2462	MCS0	19.02	30.00	PASS

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)			Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	CH 2			
1	2412	MCS16	25.25	21.86	22.88	28.34	28.40	PASS
6	2437	MCS16	23.78	22.87	21.95	27.70	28.40	PASS
11	2462	MCS16	23.75	21.05	21.56	27.06	28.40	PASS
802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)			Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	CH 2			
1	2412	MCS16	15.65	14.08	15.08	20.35	28.40	PASS
6	2437	MCS16	14.05	13.01	14.11	19.12	28.40	PASS
11	2462	MCS16	13.98	13.18	13.85	19.05	28.40	PASS

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802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	27.89	30.00	PASS
6	2437	MCS0	27.01	30.00	PASS
9	2452	MCS0	27.41	30.00	PASS
802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	19.80	30.00	PASS
6	2437	MCS0	18.78	30.00	PASS
9	2452	MCS0	18.72	30.00	PASS

802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	27.96	30.00	PASS
6	2437	MCS0	27.05	30.00	PASS
9	2452	MCS0	27.43	30.00	PASS
802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	19.77	30.00	PASS
6	2437	MCS0	18.82	30.00	PASS
9	2452	MCS0	18.74	30.00	PASS

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802.11n_HT40M Ch2					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	27.99	30.00	PASS
6	2437	MCS0	27.16	30.00	PASS
9	2452	MCS0	27.42	30.00	PASS
802.11n_HT40M Ch2					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	19.86	30.00	PASS
6	2437	MCS0	18.84	30.00	PASS
9	2452	MCS0	18.75	30.00	PASS

802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)			Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	CH 2			
3	2422	MCS16	24.82	21.21	23.18	28.09	28.40	PASS
6	2437	MCS16	23.88	20.78	22.02	27.19	28.40	PASS
9	2452	MCS16	24.71	20.98	21.47	27.49	28.40	PASS
802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)			Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	CH 2			
3	2422	MCS16	15.18	13.51	15.27	19.93	28.40	PASS
6	2437	MCS16	14.41	13.18	14.28	19.19	28.40	PASS
9	2452	MCS16	14.08	13.00	13.58	18.78	28.40	PASS

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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9 6DB BANDWIDTH MEASUREMENT

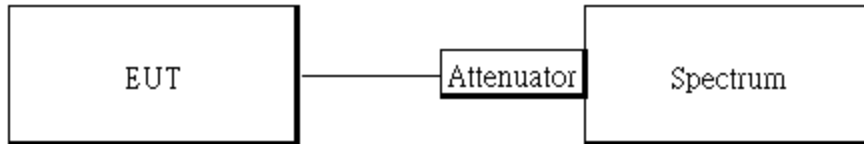
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
 RBW= 100kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto,
 Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Repeat above procedures until all test default channel is completed.

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9.5 6dB Bandwidth

802.11b Ch2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8604.00	> 500	PASS
2437	8607.00	> 500	PASS
2462	8612.00	> 500	PASS

802.11g Ch2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16380.00	> 500	PASS
2437	16070.00	> 500	PASS
2462	16380.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17620.00	> 500	PASS
2437	17010.00	> 500	PASS
2462	17630.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17630.00	> 500	PASS
2437	16980.00	> 500	PASS
2462	17630.00	> 500	PASS

802.11_n_HT20 Ch2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17640.00	> 500	PASS
2437	17350.00	> 500	PASS
2462	17630.00	> 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36380.00	> 500	PASS
2437	35780.00	> 500	PASS
2452	35200.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36390.00	> 500	PASS
2437	35770.00	> 500	PASS
2452	35380.00	> 500	PASS

802.11_n_HT40 Ch2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36410.00	> 500	PASS
2437	35780.00	> 500	PASS
2452	35520.00	> 500	PASS

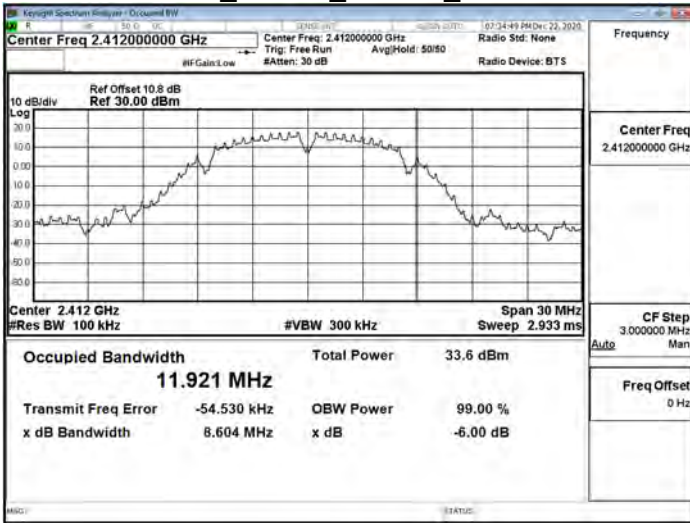
**Refer to next page for plots*

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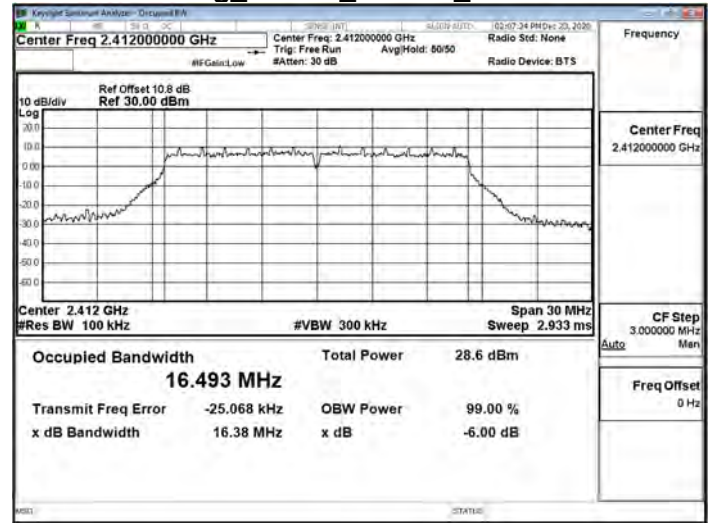
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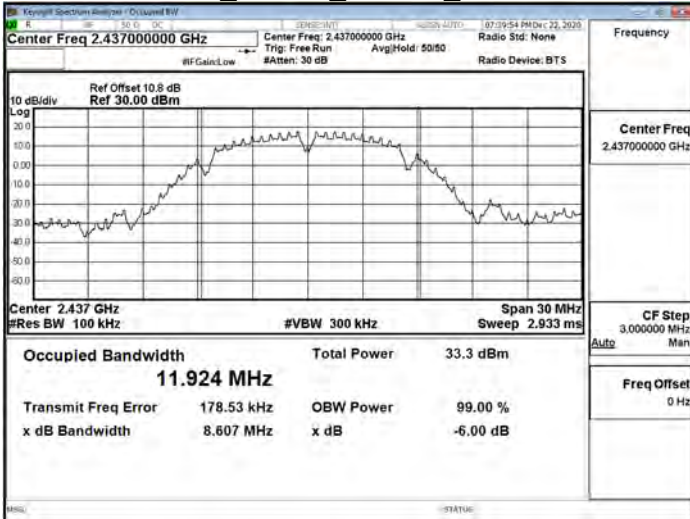
802.11b_20MHz_Chain2_2412MHz



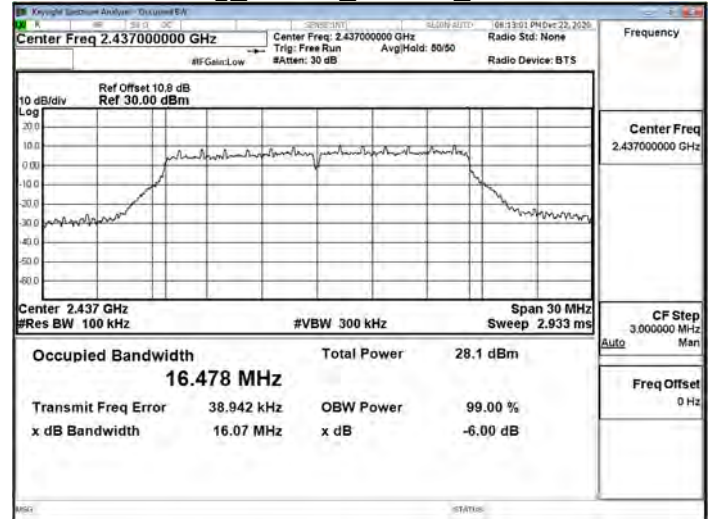
802.11g_20MHz_Chain2_2412MHz



802.11b_20MHz_Chain2_2437MHz



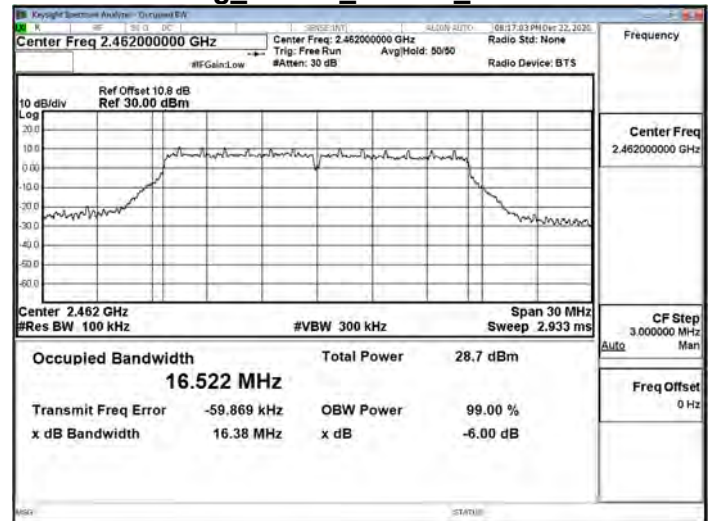
802.11g_20MHz_Chain2_2437MHz



802.11b_20MHz_Chain2_2462MHz



802.11g_20MHz_Chain2_2462MHz

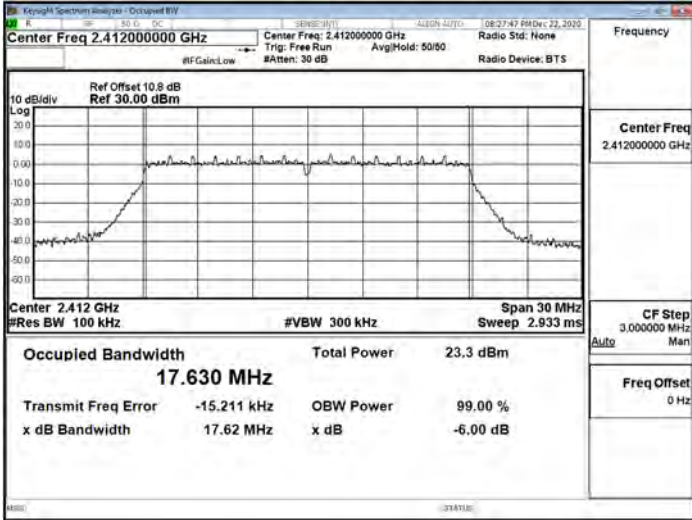


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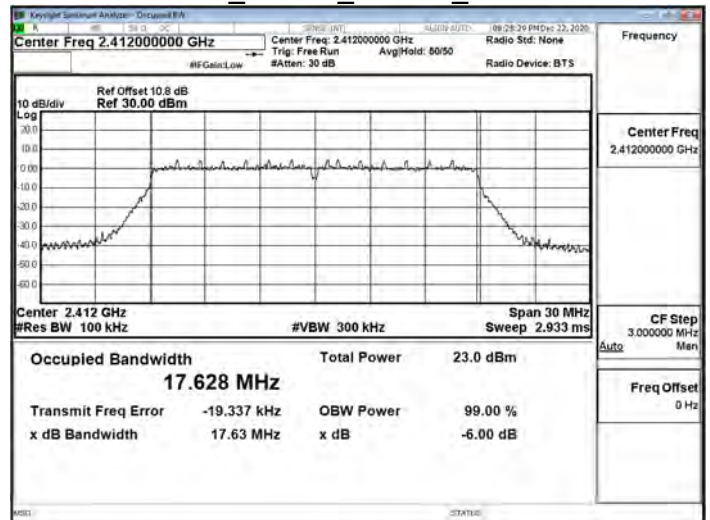
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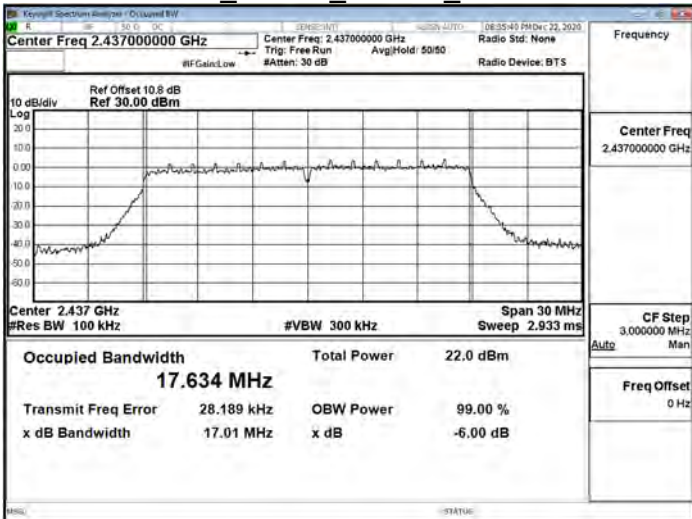
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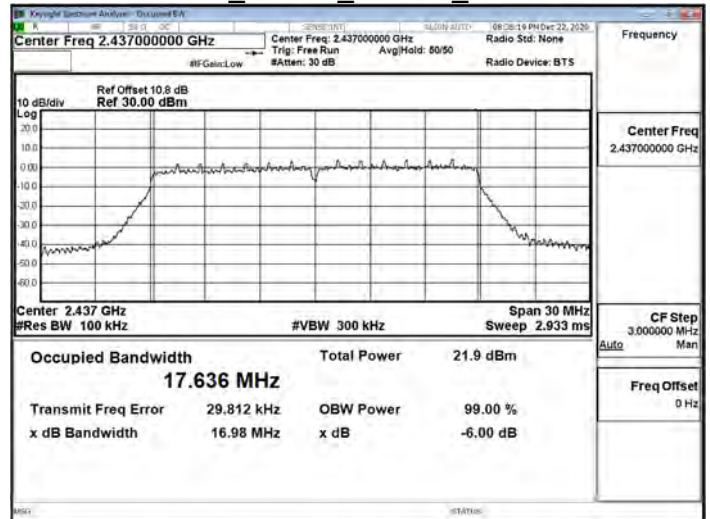
802.11n_20MHz_Chain1_2412MHz



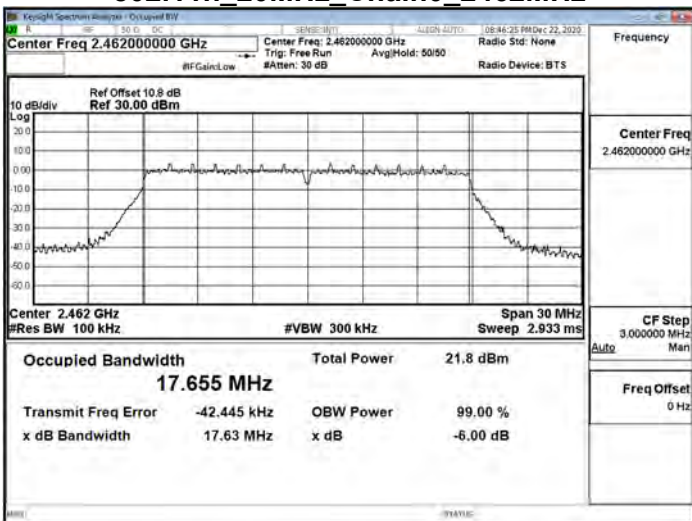
802.11n_20MHz_Chain0_2437MHz



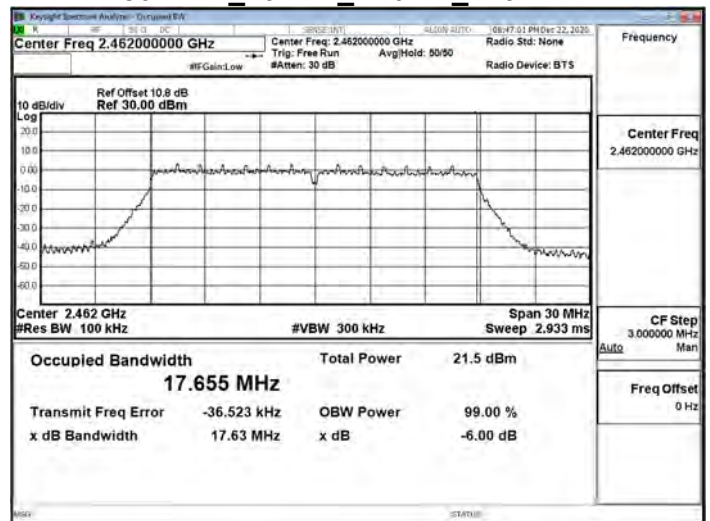
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

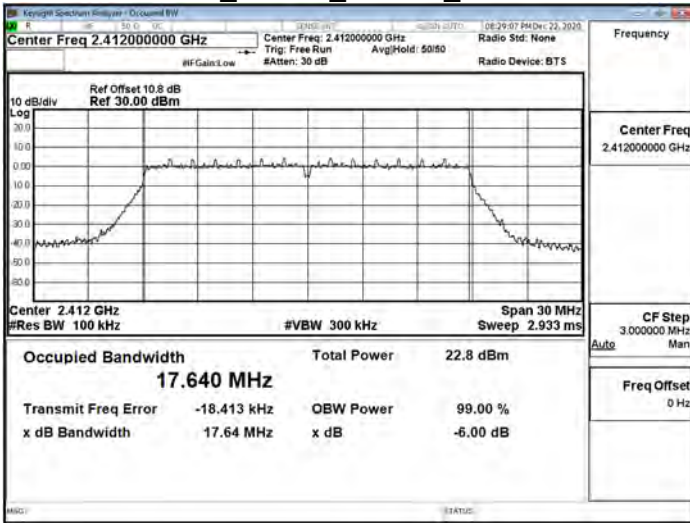


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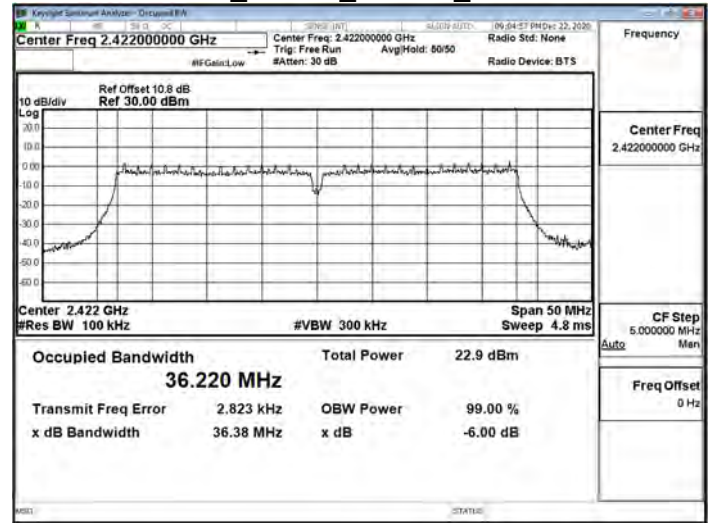
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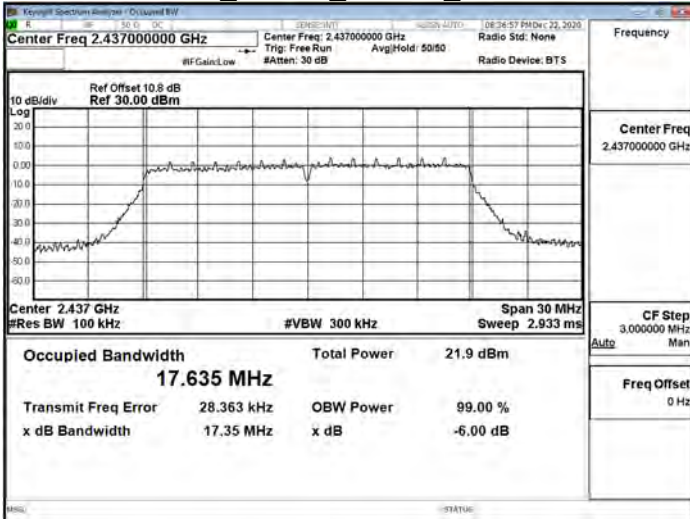
802.11n_20MHz_Chain2_2412MHz



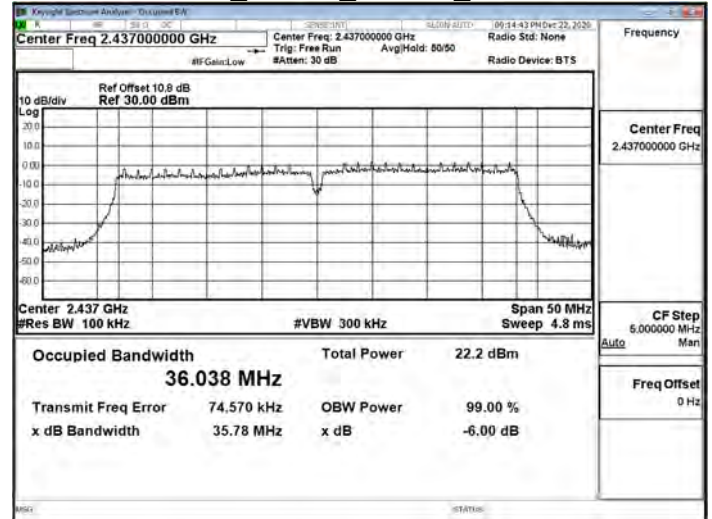
802.11n_40MHz_Chain0_2422MHz



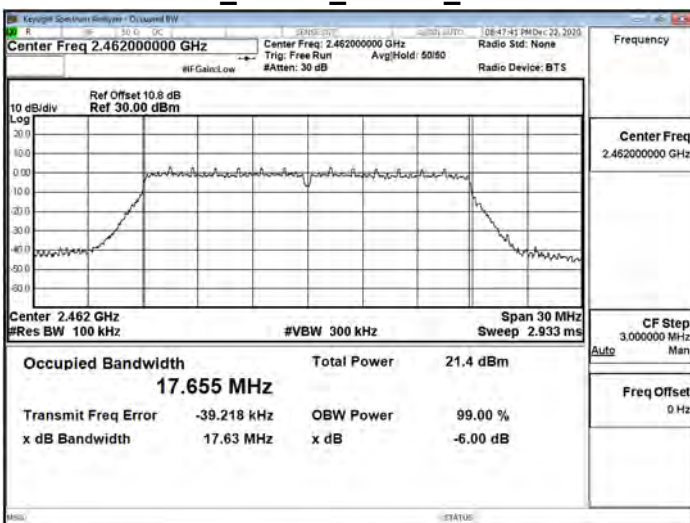
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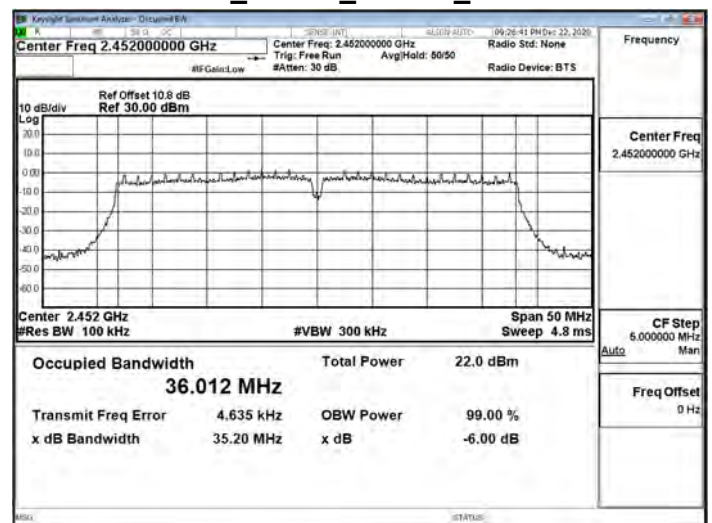
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain2_2462MHz



802.11n_40MHz_Chain0_2452MHz

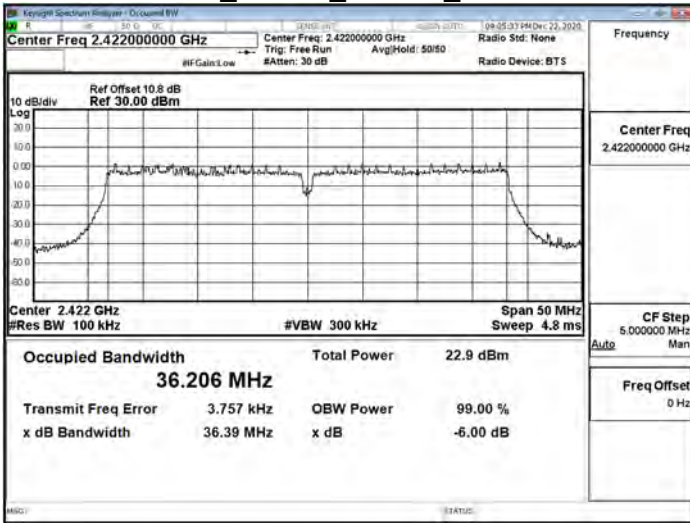


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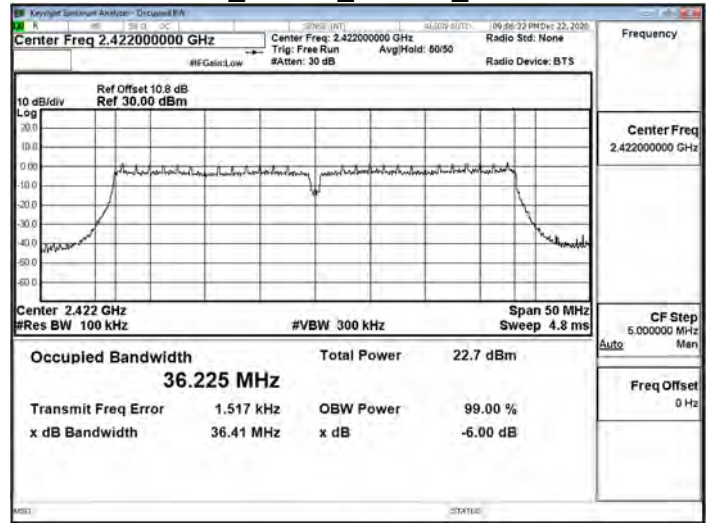
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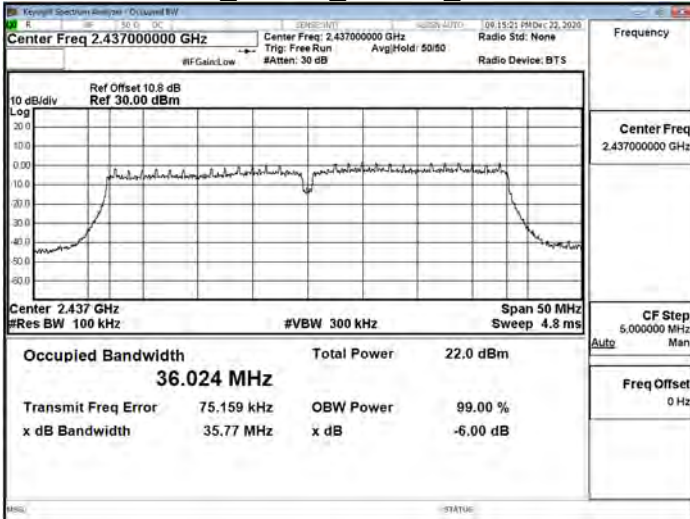
802.11n_40MHz_Chain1_2422MHz



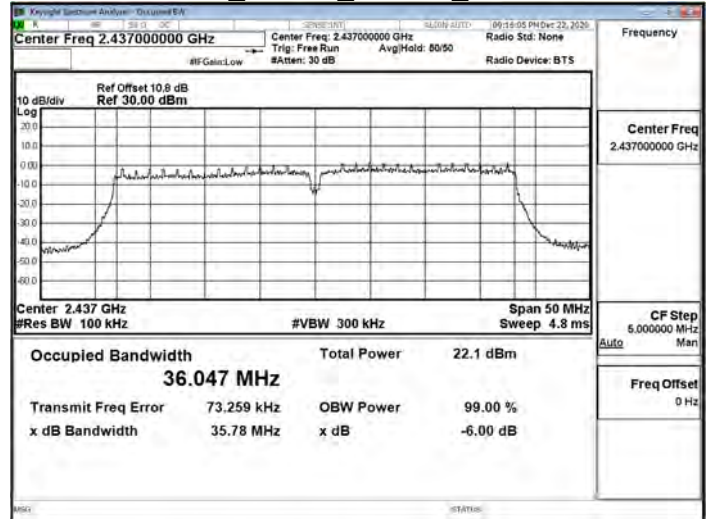
802.11n_40MHz_Chain2_2422MHz



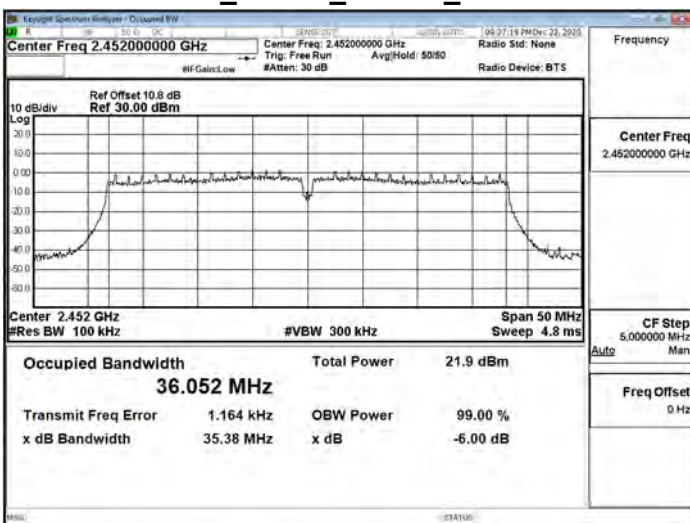
802.11n_40MHz_Chain1_2437MHz



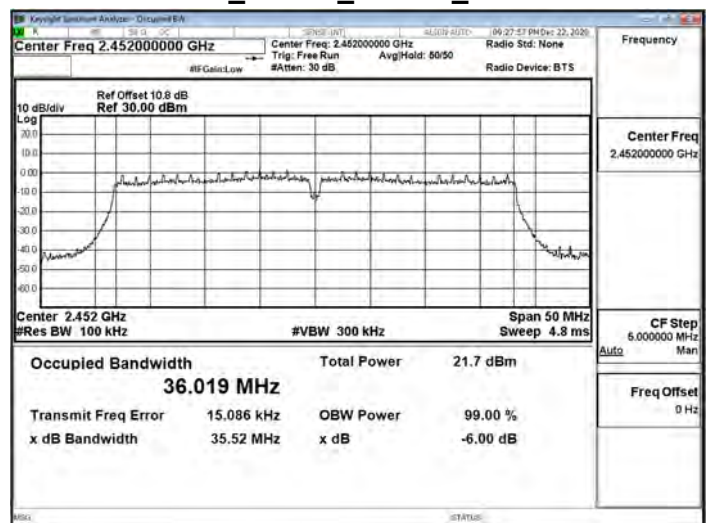
802.11n_40MHz_Chain2_2437MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain2_2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

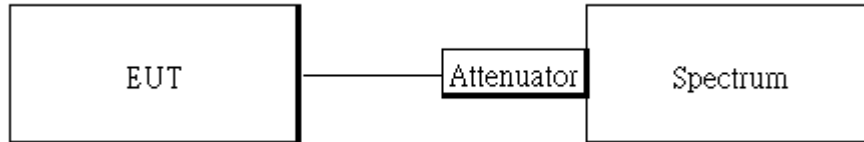
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

10.3 Test SET-UP



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10.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

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

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10.5 Measurement Result

Reference Level of Limit 802.11b mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	17.93	-2.07
2437	17.63	-2.37
2462	17.25	-2.75

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.40	-9.60
2437	10.50	-9.50
2462	10.80	-9.20

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	9.02	-10.98
2437	8.71	-11.29
2462	8.04	-11.96

Reference Level of Limit 802.11n40 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	7.12	-12.88
2437	6.18	-13.82
2452	6.07	-13.93

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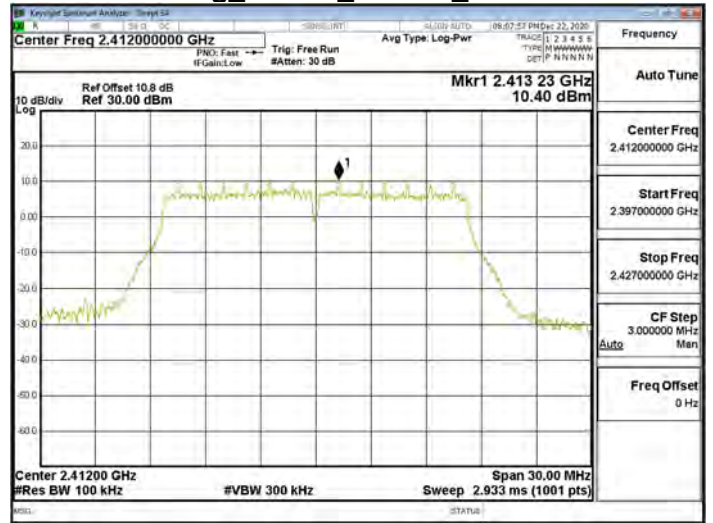
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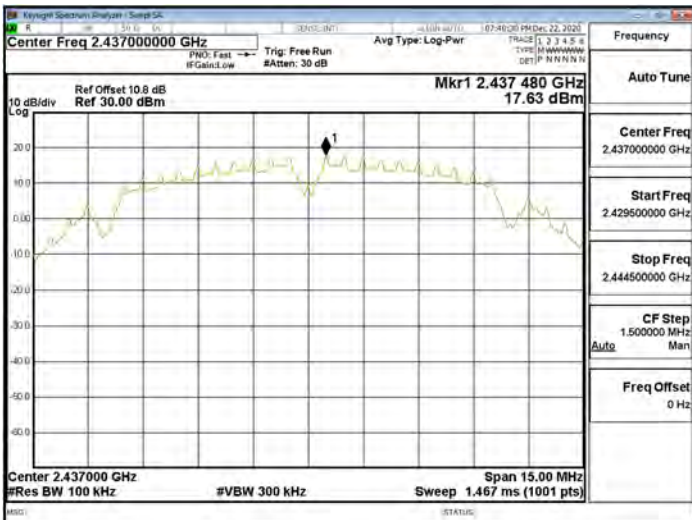
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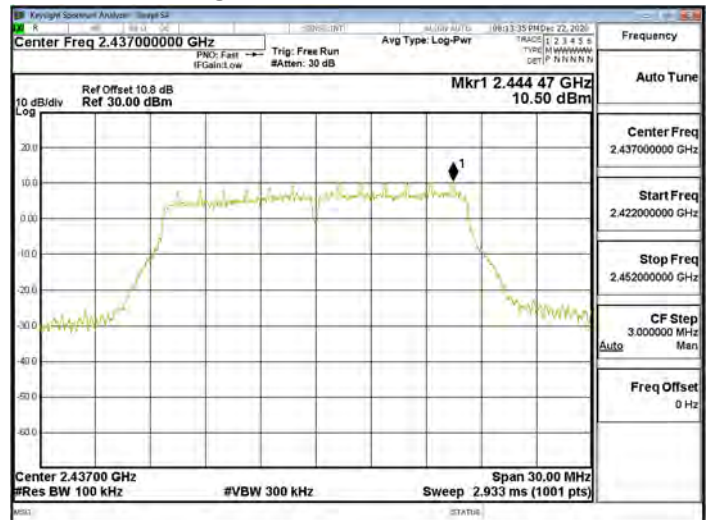
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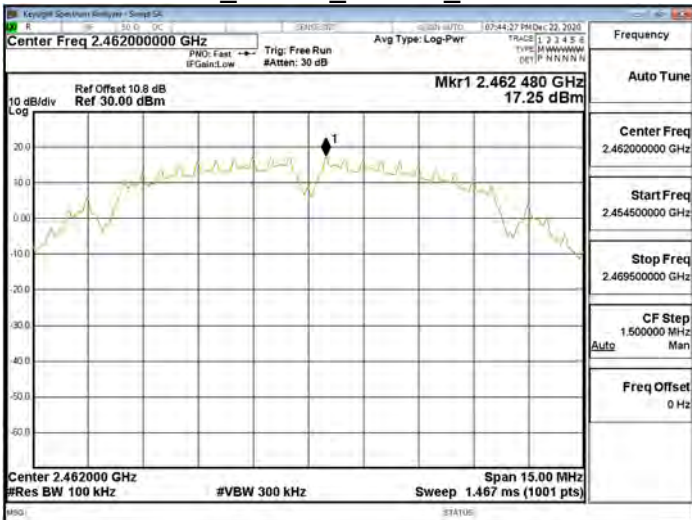
802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

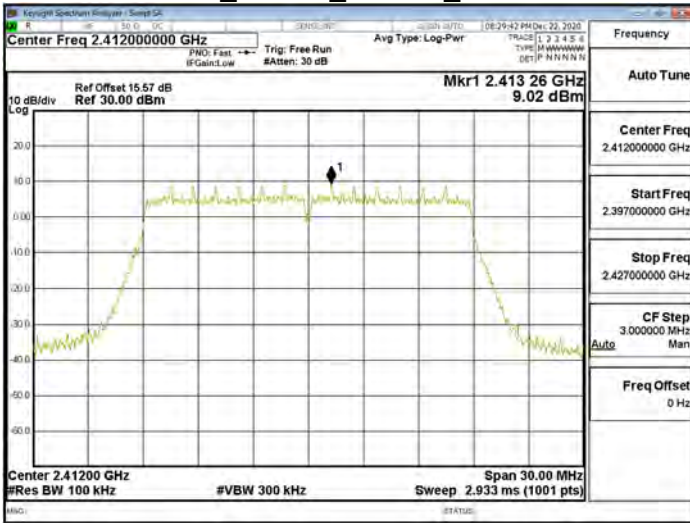


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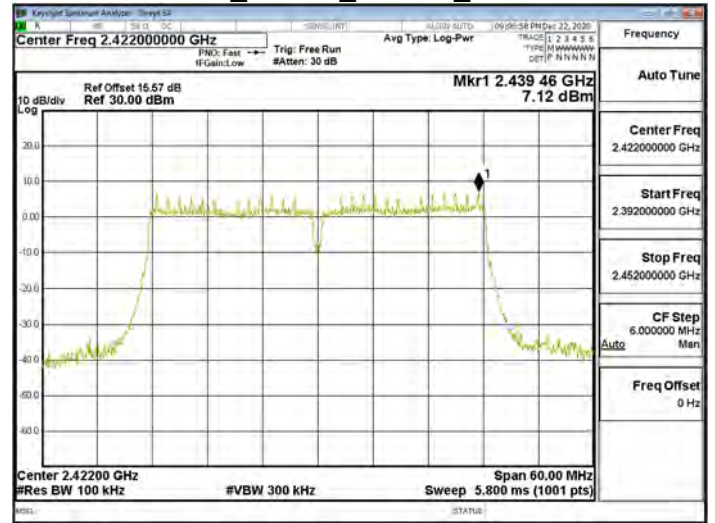
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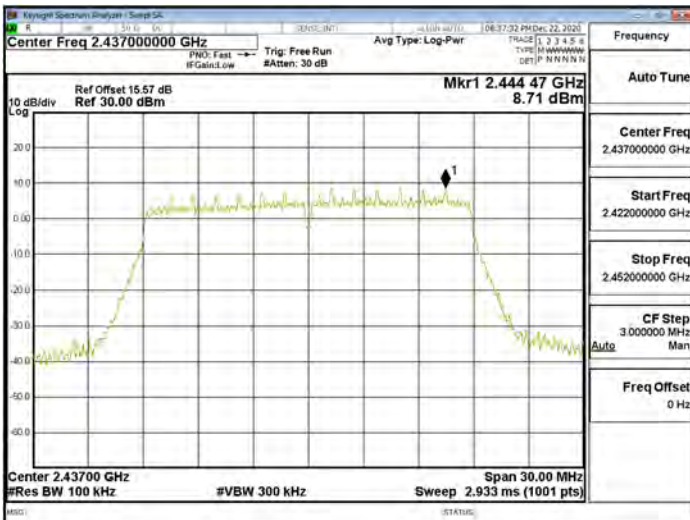
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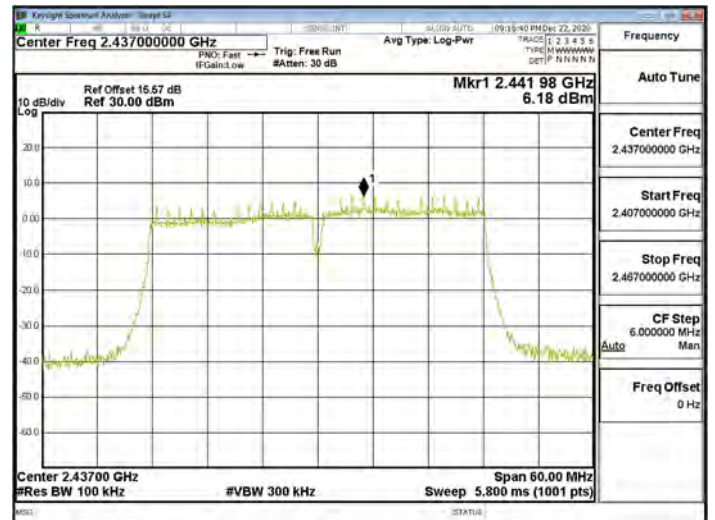
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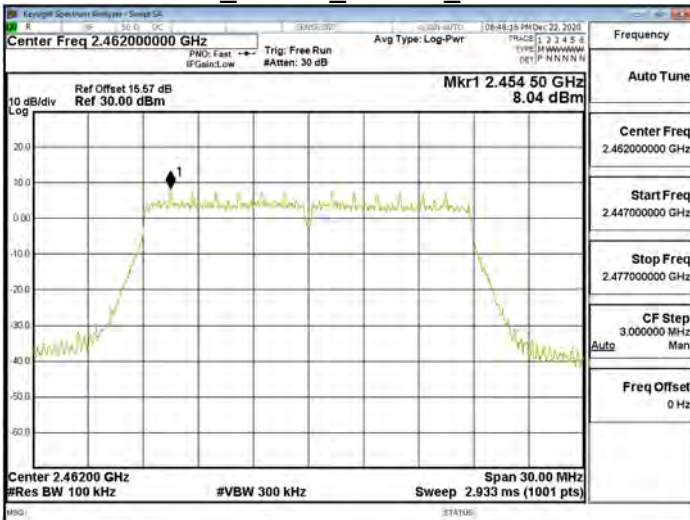
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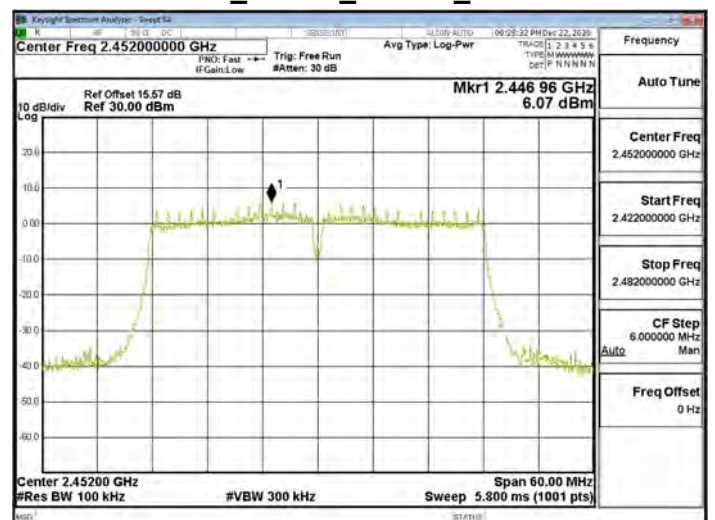
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802.11n_20MHz_Chain2_2462MHz



802.11n_40MHz_Chain2_2452MHz

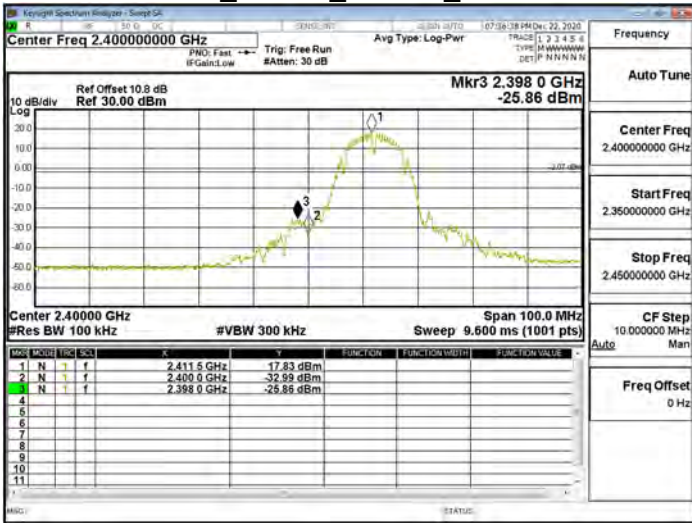


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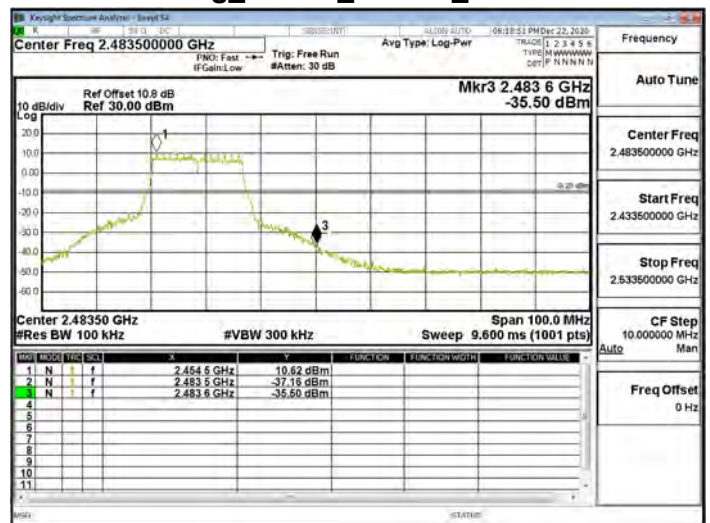
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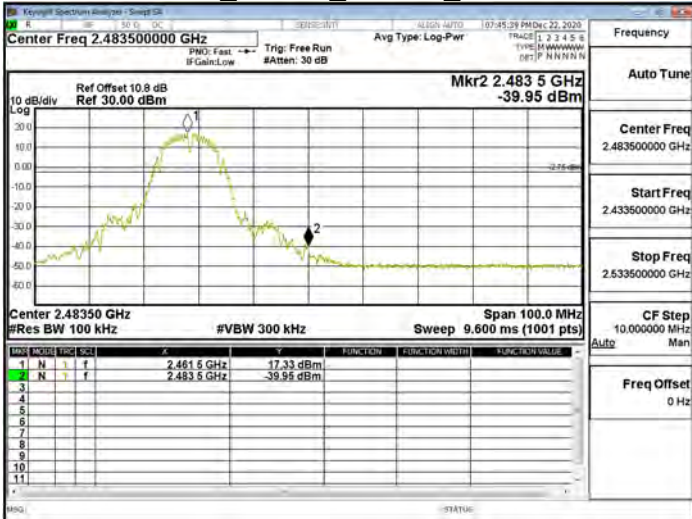
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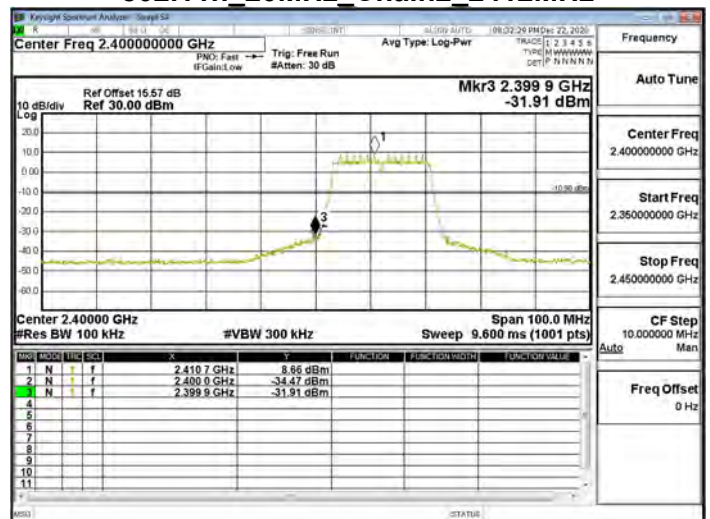
802.11g_20MHz_Chain0_2462MHz



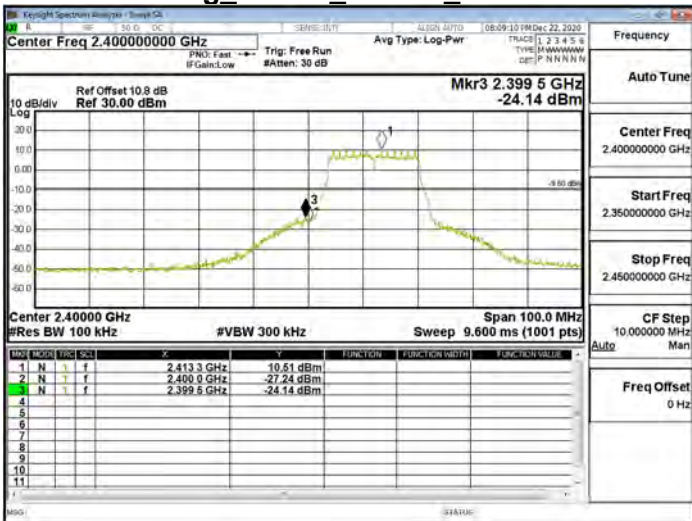
802.11b_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain2_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain2_2462MHz

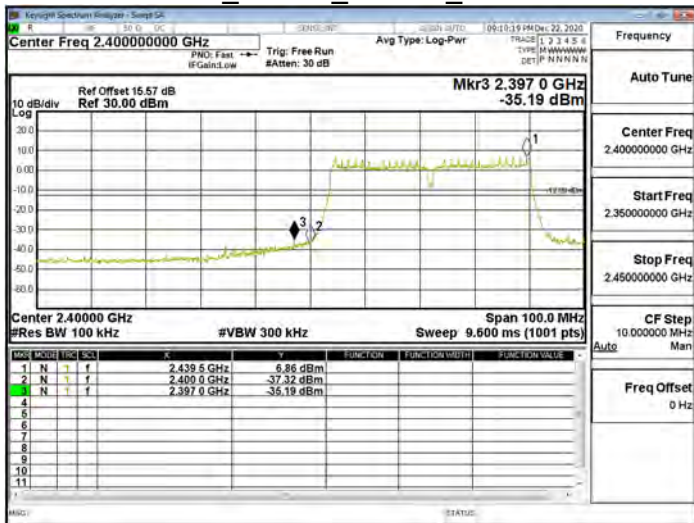


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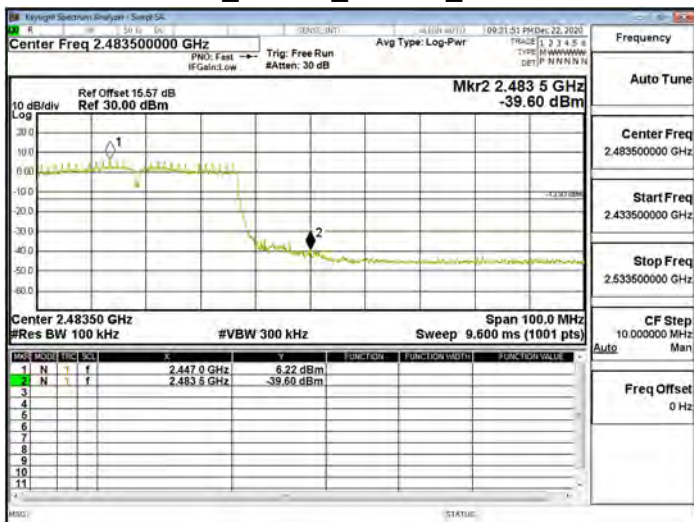
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802.11n_40MHz_Chain2_2422MHz



802.11n_40MHz_Chain2_2452MHz

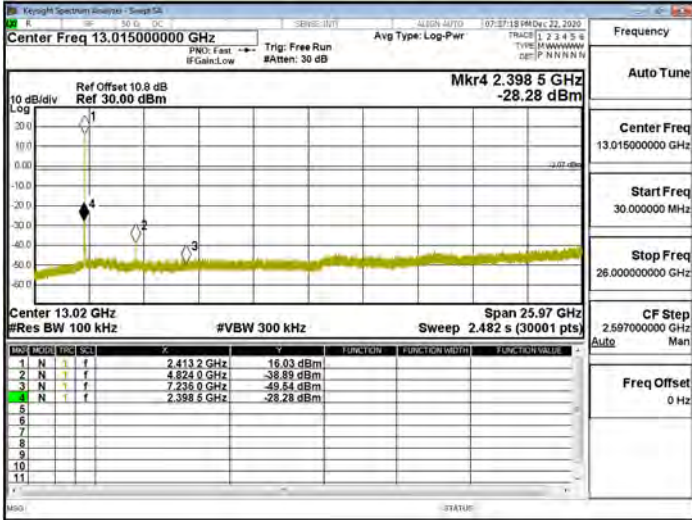


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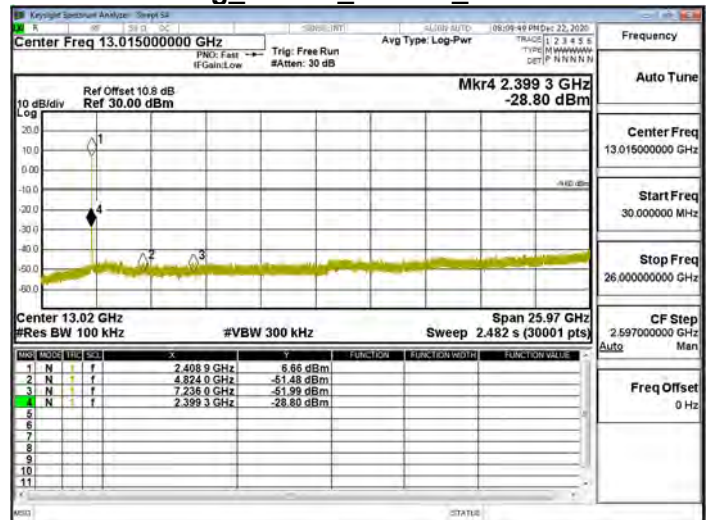
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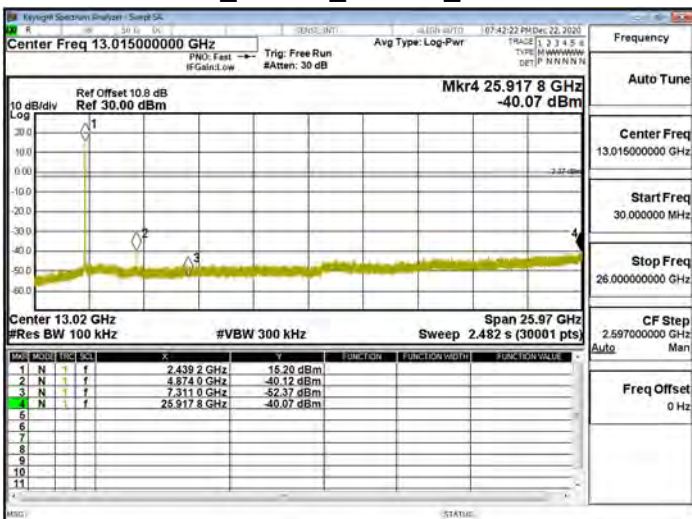
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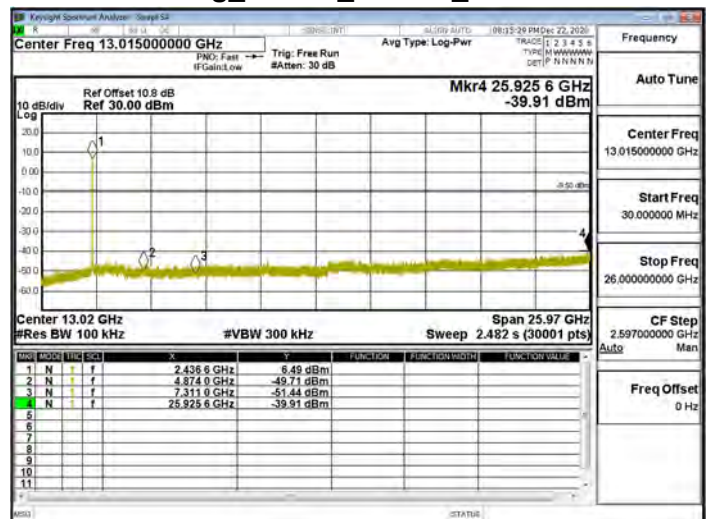
802.11g 20MHz Chain0 2412MHz



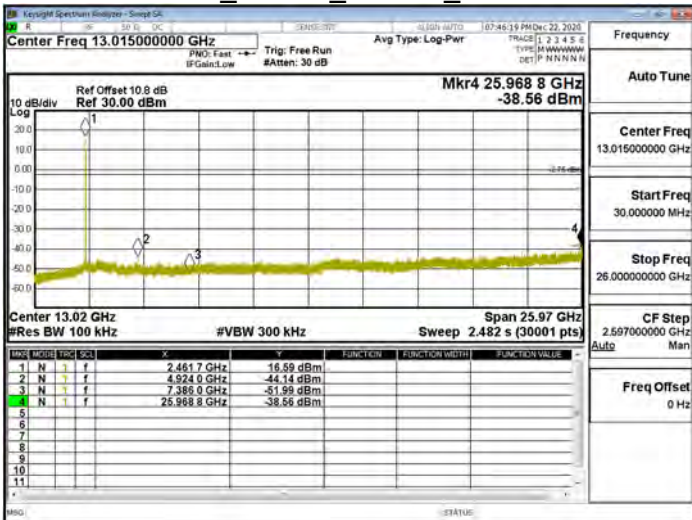
802.11b 20MHz Chain0 2437MHz



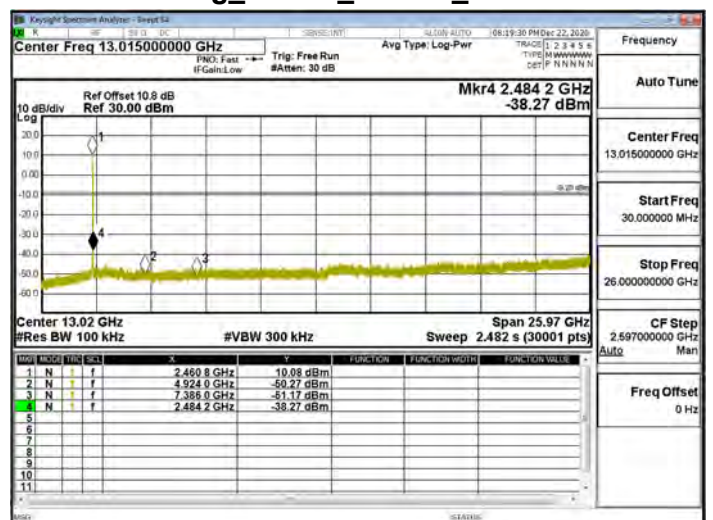
802.11g 20MHz Chain0 2437MHz



802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2462MHz

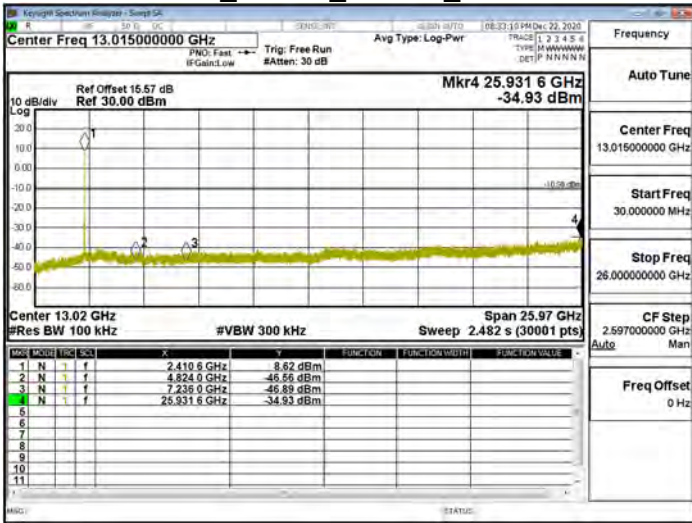


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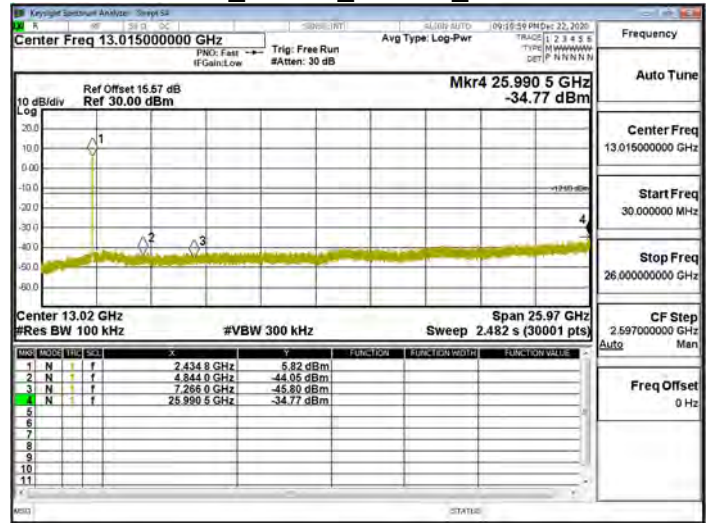
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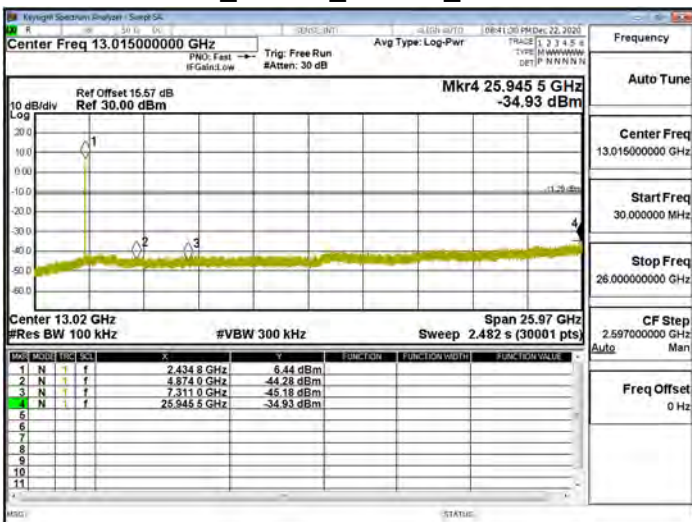
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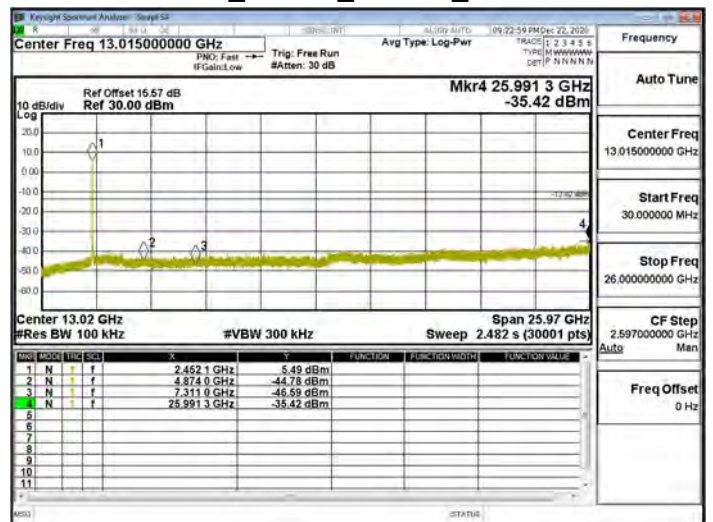
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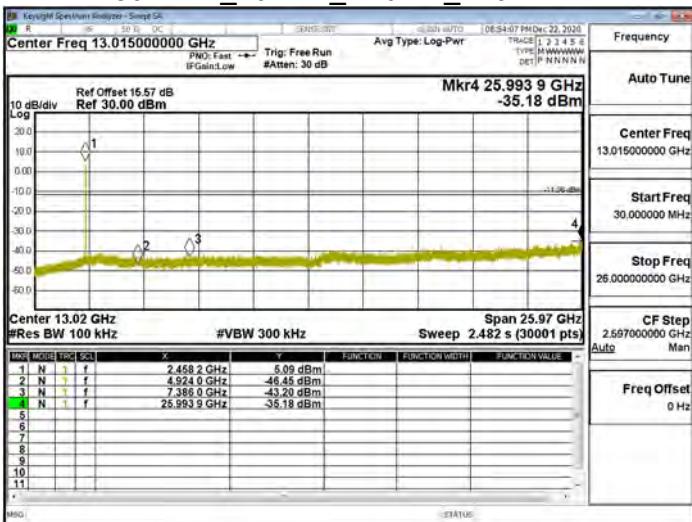
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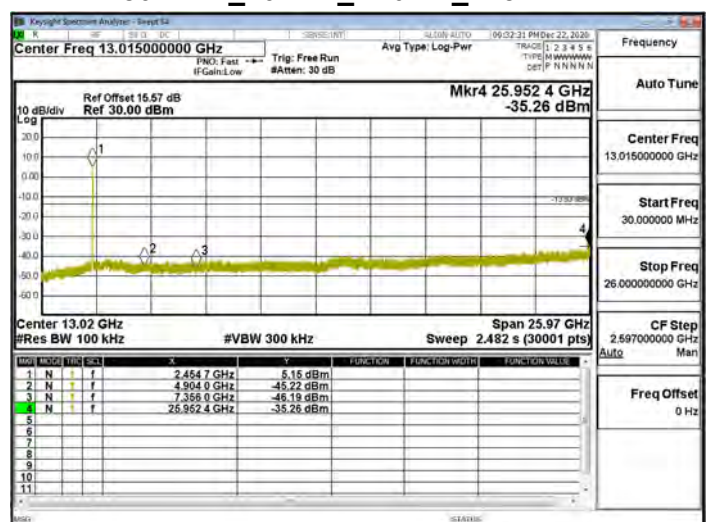
802.11n_40MHz_Chain2_2437MHz



802.11n_20MHz_Chain2_2462MHz



802.11n_40MHz_Chain2_2462MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

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

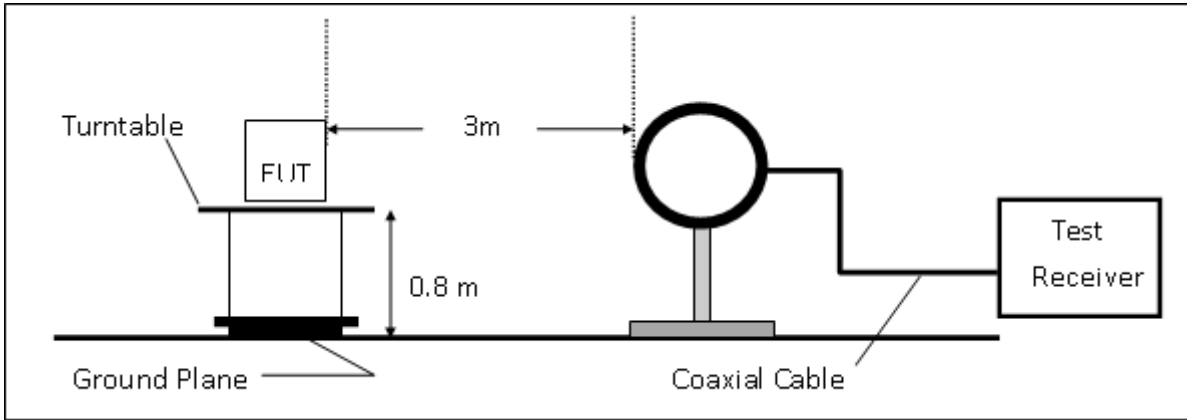
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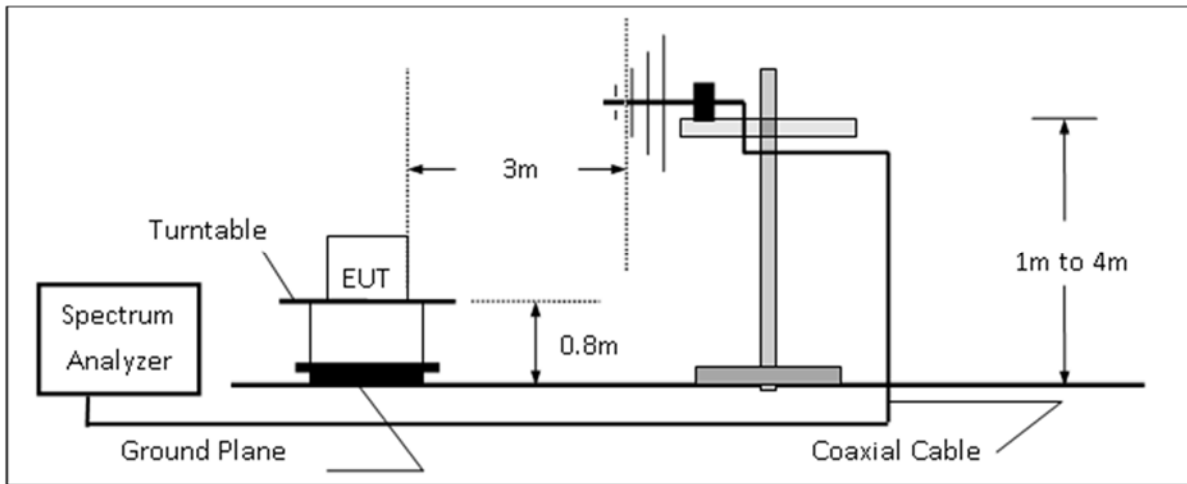
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11.3 Test SET-UP

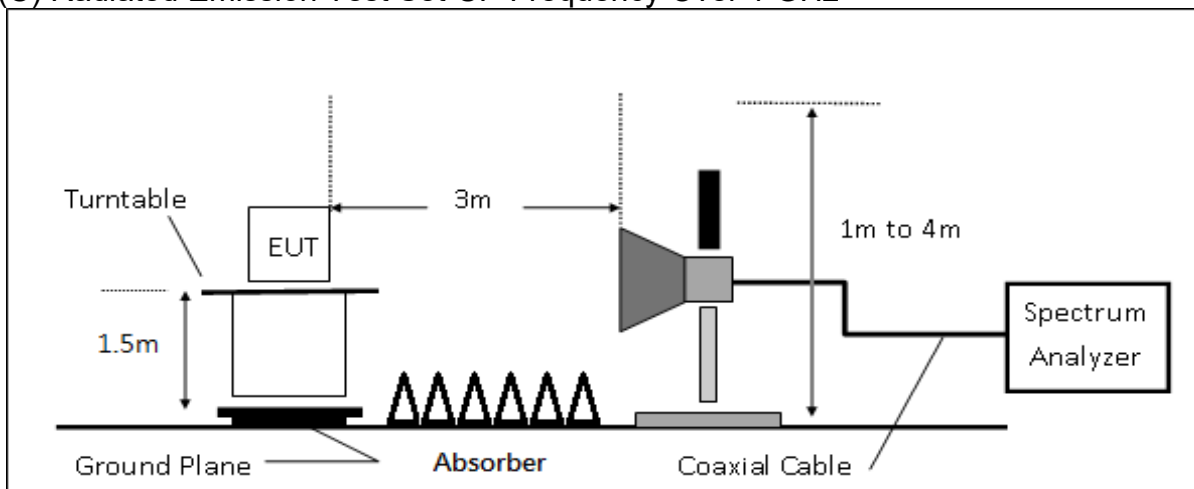
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When 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.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

Factor(dB) = Antenna Factor(dB μ V/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.

11.7 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

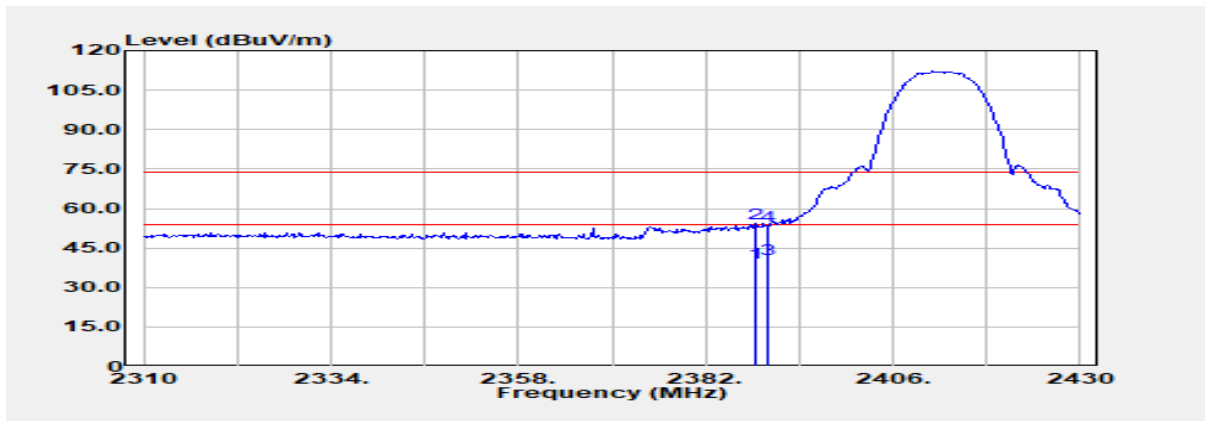
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11.7.1 Radiated Band Edge Measurement Result

Report Number	:E2/2020/B0036	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2020-12-30
Test Frequency	:2412 MHz	Temp./Humi.	:20.2/52
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.269	Average	34.61	4.77	39.38	54.00	-14.62
2388.269	Peak	49.57	4.77	54.35	74.00	-19.65
2390.000	Average	35.98	4.84	40.82	54.00	-13.18
2390.000	Peak	48.75	4.84	53.59	74.00	-20.41

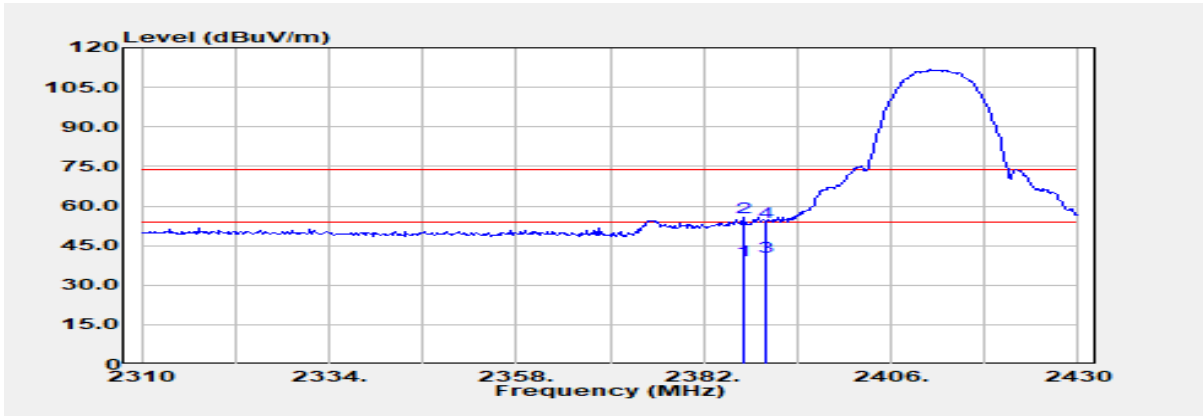
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.2/52
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.115	Average	34.67	4.73	39.40	54.00	-14.60
2387.115	Peak	50.96	4.73	55.69	74.00	-18.31
2390.000	Average	36.13	4.84	40.97	54.00	-13.03
2390.000	Peak	48.88	4.84	53.72	74.00	-20.28

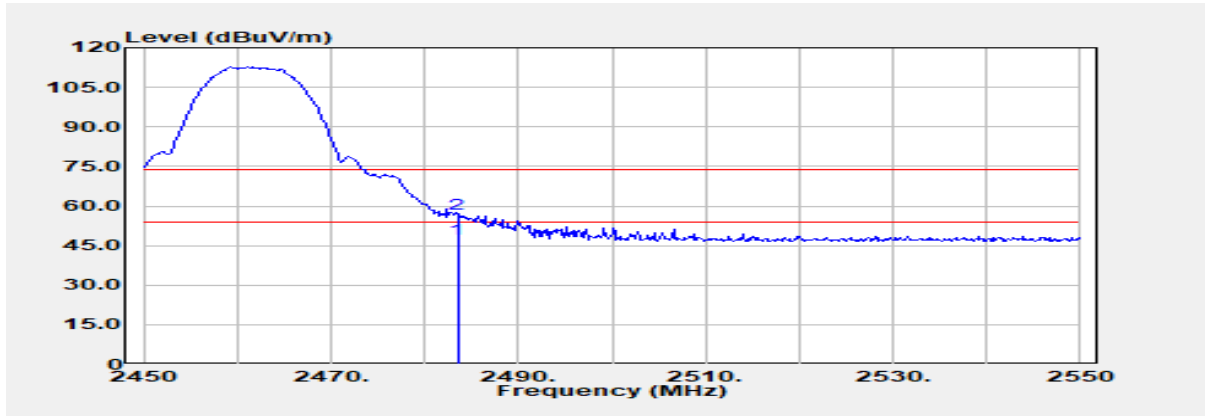
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.2/52
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.58	3.90	47.48	54.00	-6.52
2483.500	Peak	53.07	3.90	56.97	74.00	-17.03

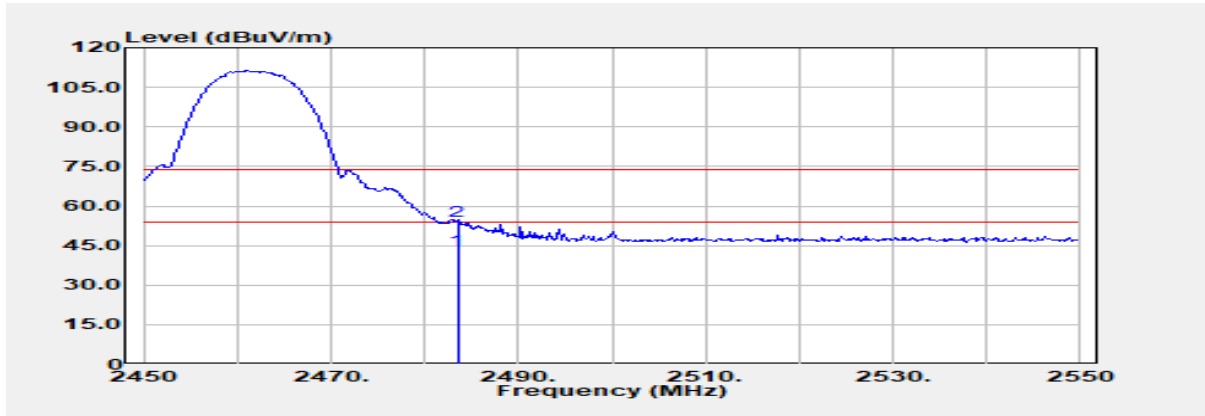
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.2/52
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	39.71	3.90	43.61	54.00	-10.39
2483.500	Peak	50.65	3.90	54.55	74.00	-19.45

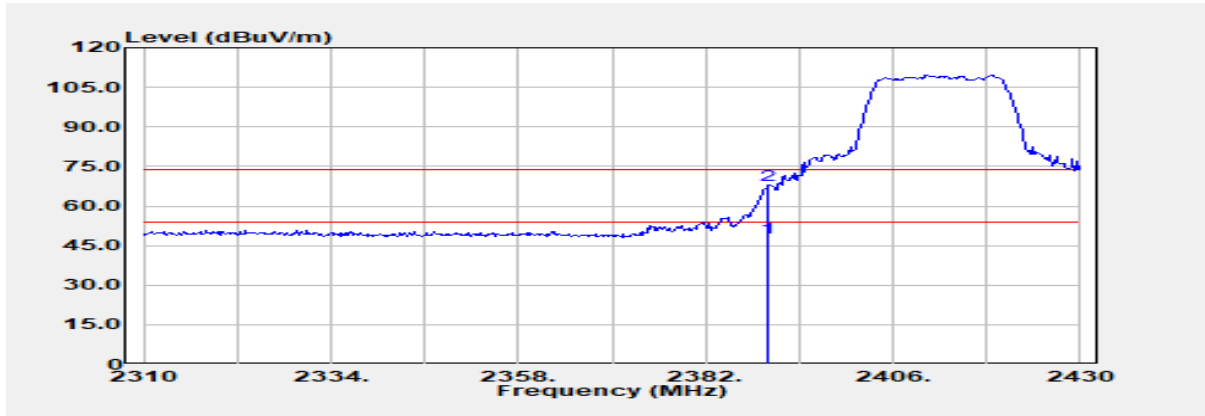
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.1/50
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	43.02	4.84	47.86	54.00	-6.14
2390.000	Peak	63.03	4.84	67.87	74.00	-6.13

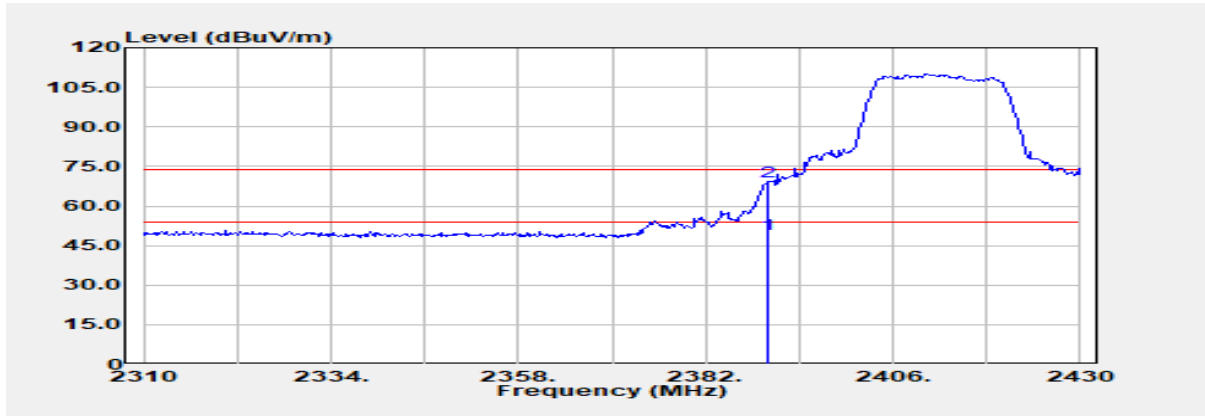
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.1/50
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	44.69	4.84	49.53	54.00	-4.47
2390.000	Peak	64.36	4.84	69.20	74.00	-4.80

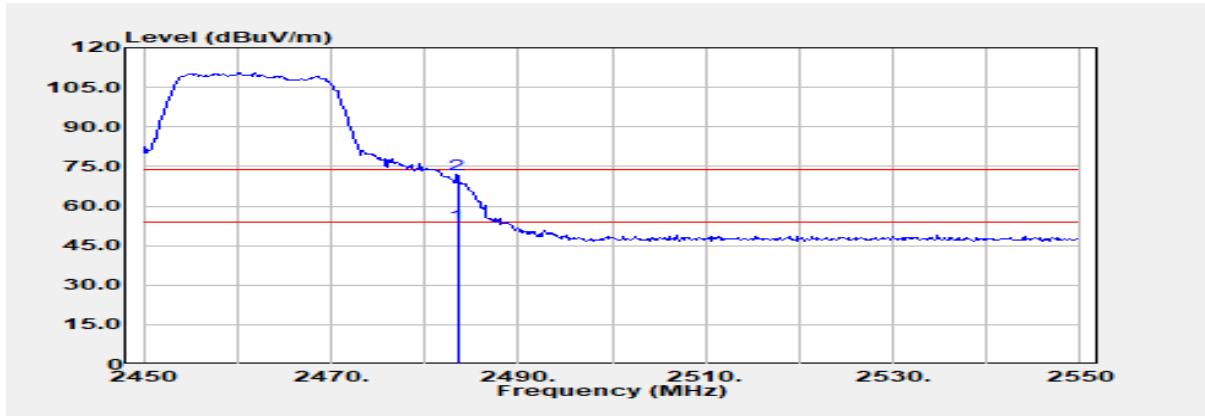
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 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.1/50
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	48.89	3.90	52.79	54.00	-1.21
2483.500	Peak	67.95	3.90	71.85	74.00	-2.15

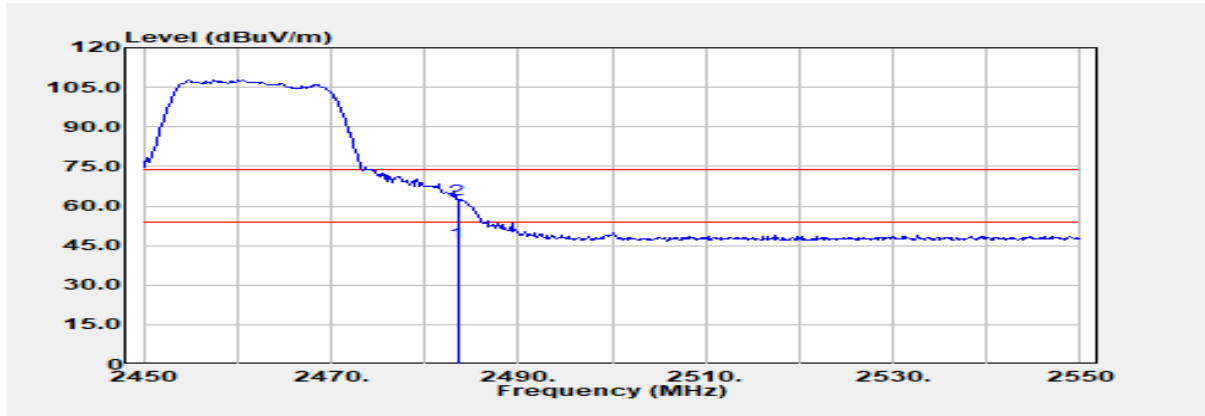
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 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-30
 Temp./Humi. :20.1/50
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.39	3.90	46.29	54.00	-7.71
2483.500	Peak	58.38	3.90	62.28	74.00	-11.72

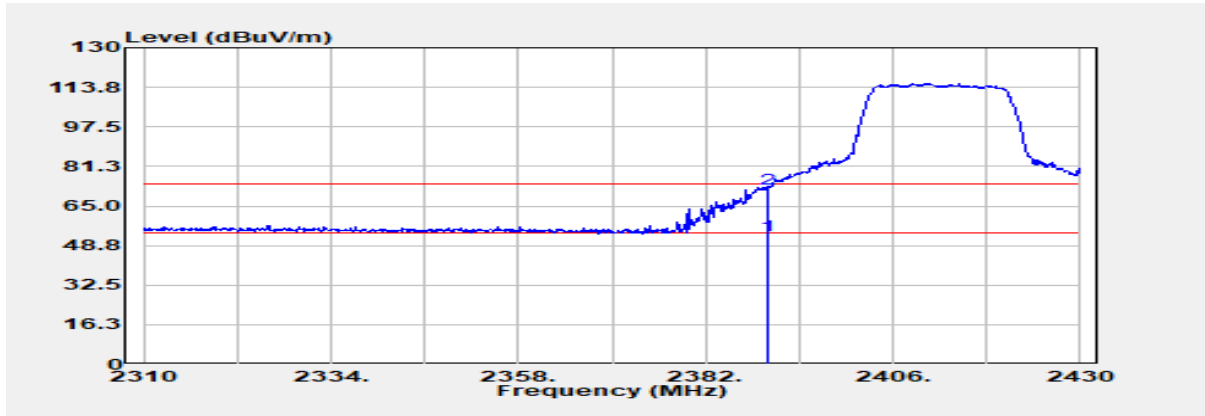
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-19
 Temp./Humi. :20.5/65
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	47.97	4.84	52.81	54.00	-1.19
2390.000	Peak	67.40	4.84	72.24	74.00	-1.76

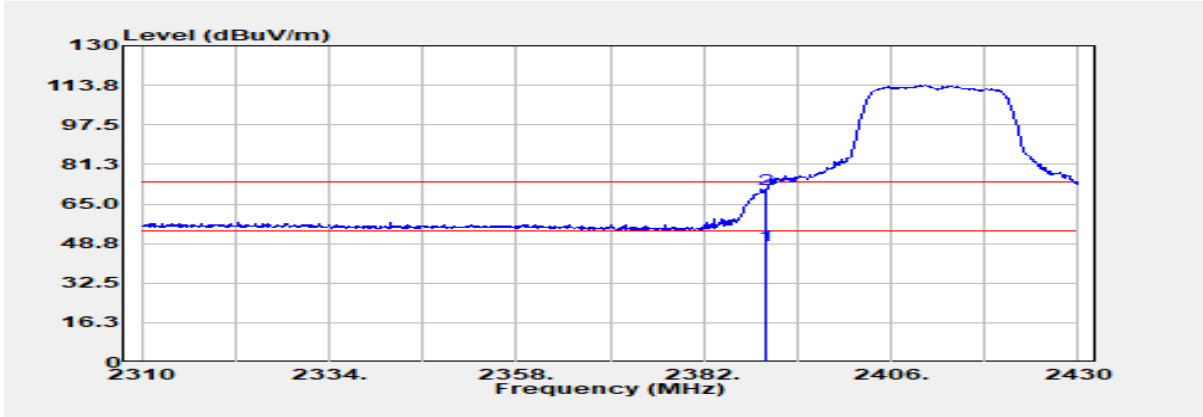
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-19
 Temp./Humi. :20.5/65
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	43.29	4.84	48.13	54.00	-5.87
2390.000	Peak	66.07	4.84	70.91	74.00	-3.09

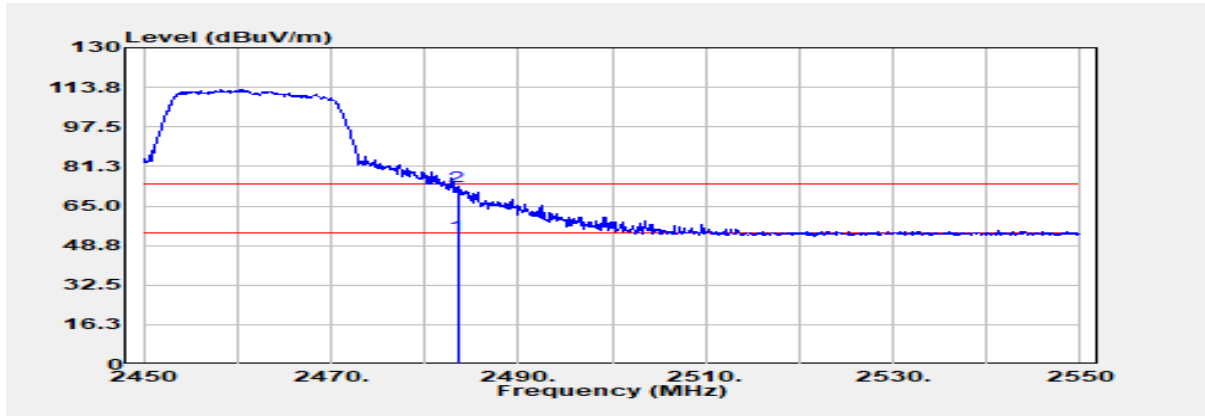
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH High
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-19
 Temp./Humi. :20.5/64
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	49.04	3.90	52.94	54.00	-1.06
2483.500	Peak	69.05	3.90	72.95	74.00	-1.05

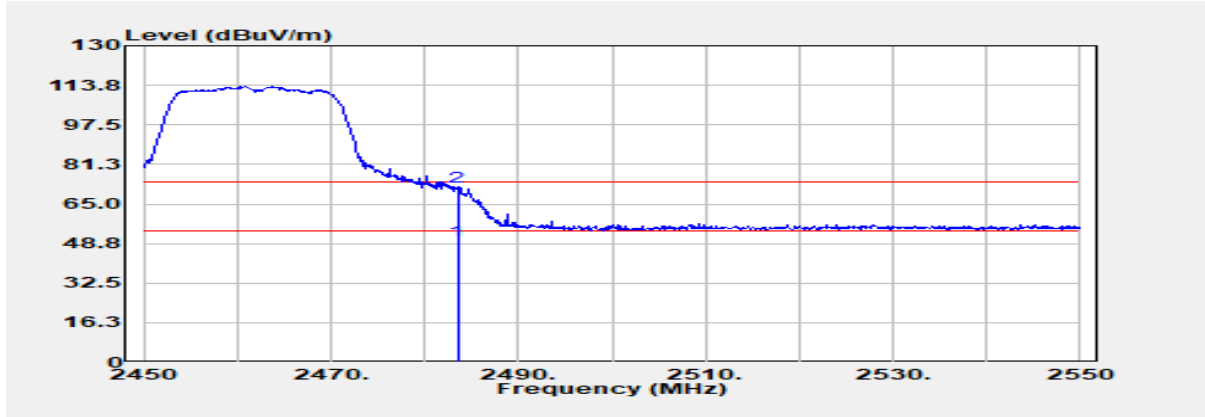
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH High
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-19
 Temp./Humi. :20.5/64
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.37	3.90	50.27	54.00	-3.73
2483.500	Peak	68.08	3.90	71.98	74.00	-2.02

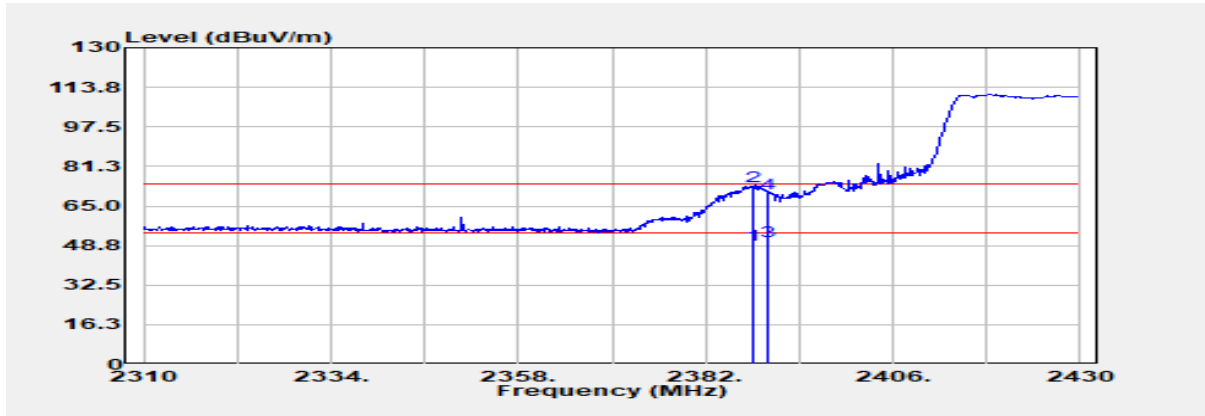
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :19.0/67
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.000	Average	44.36	4.76	49.12	54.00	-4.88
2388.000	Peak	68.36	4.76	73.12	74.00	-0.88
2390.000	Average	45.65	4.84	50.49	54.00	-3.51
2390.000	Peak	65.55	4.84	70.39	74.00	-3.61

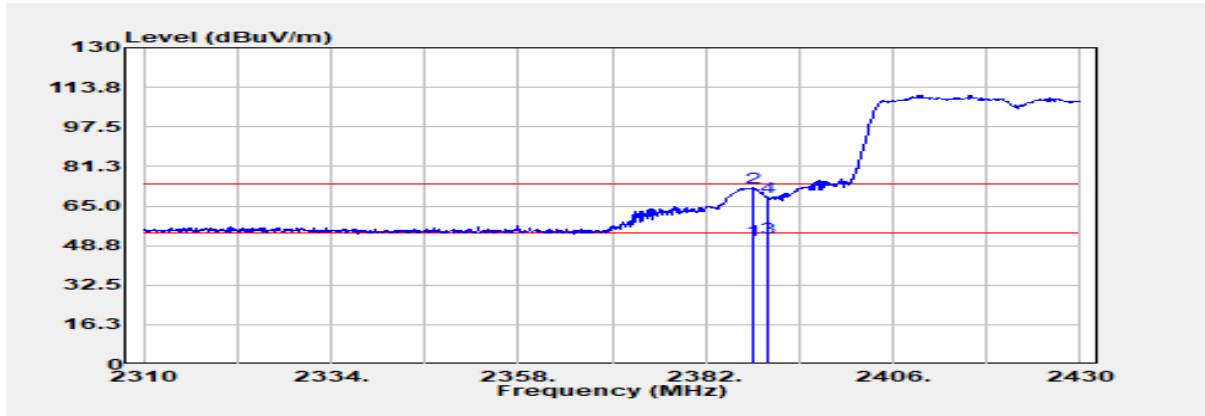
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :19.0/67
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.000	Average	46.44	4.76	51.20	54.00	-2.80
2388.000	Peak	67.68	4.76	72.45	74.00	-1.55
2390.000	Average	47.31	4.84	52.15	54.00	-1.85
2390.000	Peak	63.63	4.84	68.47	74.00	-5.53

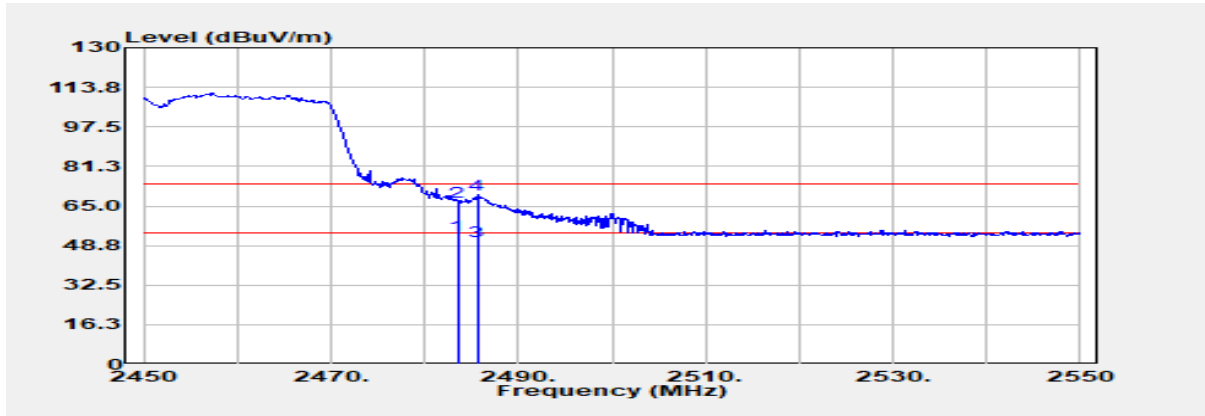
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :19.4/68
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	49.23	3.90	53.13	54.00	-0.87
2483.500	Peak	63.02	3.90	66.92	74.00	-7.08
2485.600	Average	46.66	3.89	50.55	54.00	-3.45
2485.600	Peak	65.55	3.89	69.44	74.00	-4.56

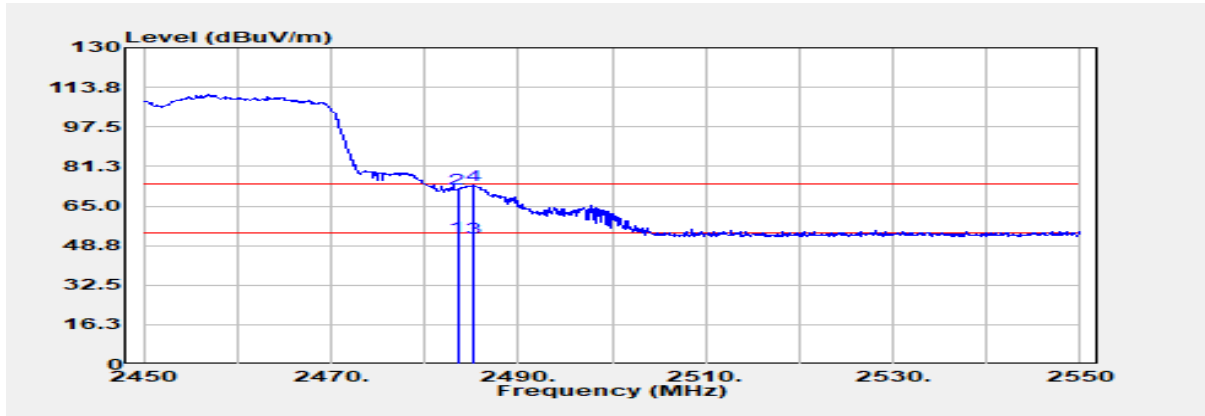
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :19.4/68
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	48.74	3.90	52.64	54.00	-1.36
2483.500	Peak	68.18	3.90	72.08	74.00	-1.92
2485.100	Average	48.15	3.89	52.04	54.00	-1.96
2485.100	Peak	69.51	3.89	73.40	74.00	-0.60

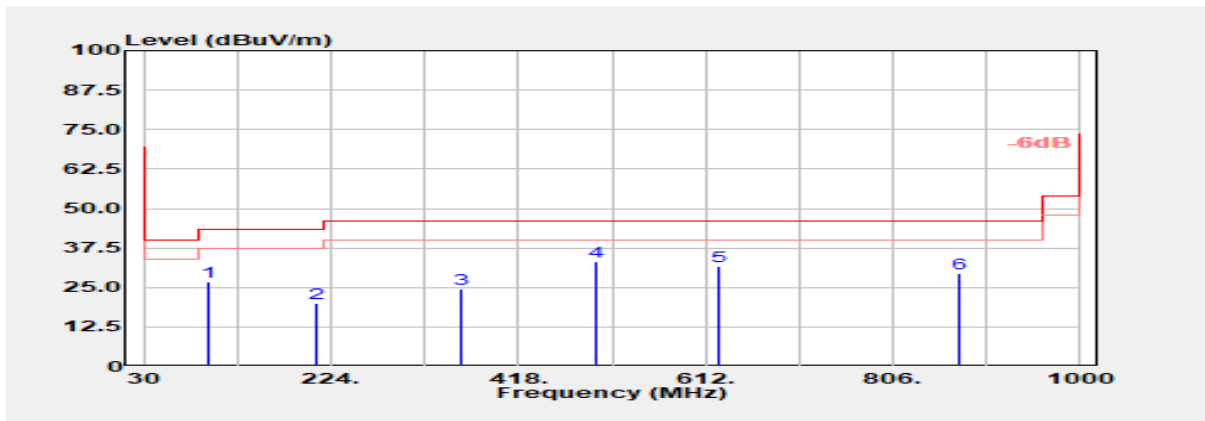
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11.7.2 Below 1GHz Worst-Case Emission:

Report Number	:E2/2020/B0036	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2020-12-17
Test Frequency	:2437 MHz	Temp./Humi.	:20.8/68
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
96.930	Peak	47.08	-20.28	26.80	43.50	-16.70
209.450	Peak	39.35	-19.33	20.02	43.50	-23.48
359.800	Peak	38.54	-13.95	24.59	46.00	-21.41
499.480	Peak	43.98	-10.63	33.35	46.00	-12.65
624.610	Peak	40.10	-8.29	31.82	46.00	-14.18
874.870	Peak	35.89	-6.59	29.29	46.00	-16.71

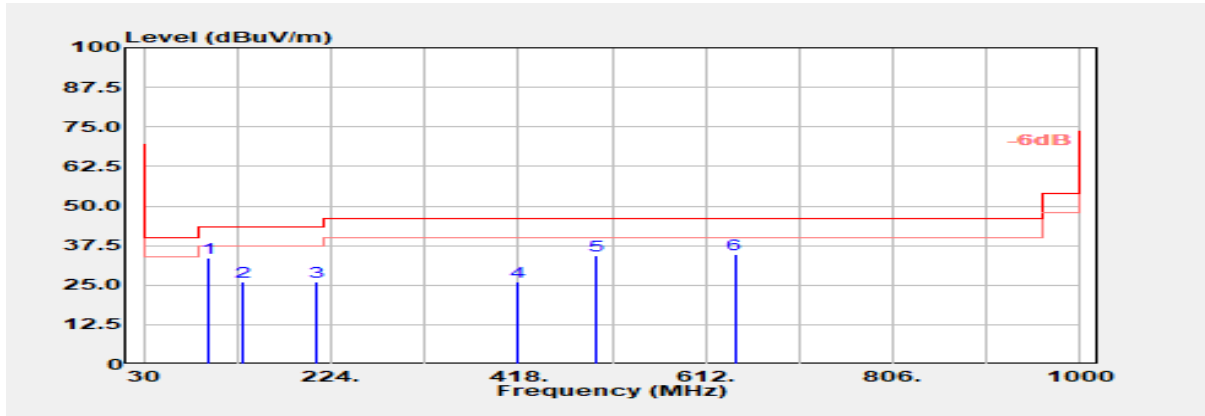
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-17
 Temp./Humi. :20.8/68
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
96.930	Peak	53.74	-20.28	33.46	43.50	-10.04
131.850	Peak	43.02	-16.95	26.07	43.50	-17.43
209.450	Peak	45.27	-19.33	25.94	43.50	-17.56
418.000	Peak	37.99	-11.77	26.22	46.00	-19.78
499.480	Peak	45.02	-10.63	34.39	46.00	-11.61
642.070	Peak	42.92	-8.37	34.55	46.00	-11.45

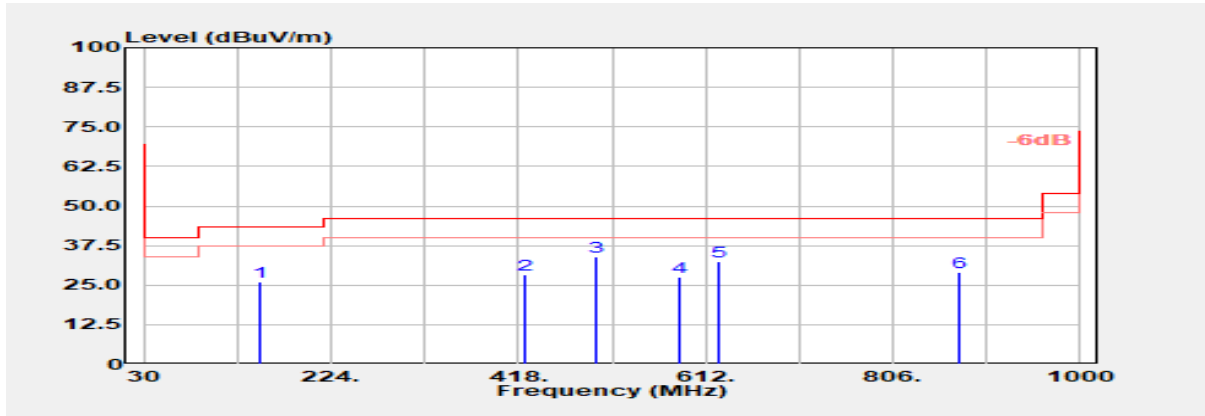
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-17
 Temp./Humi. :20.8/68
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
149.310	Peak	44.25	-18.05	26.21	43.50	-17.29
423.820	Peak	39.97	-11.55	28.41	46.00	-17.59
499.480	Peak	44.60	-10.63	33.97	46.00	-12.03
583.870	Peak	36.47	-8.93	27.55	46.00	-18.45
624.610	Peak	40.64	-8.29	32.36	46.00	-13.64
874.870	Peak	35.52	-6.59	28.92	46.00	-17.08

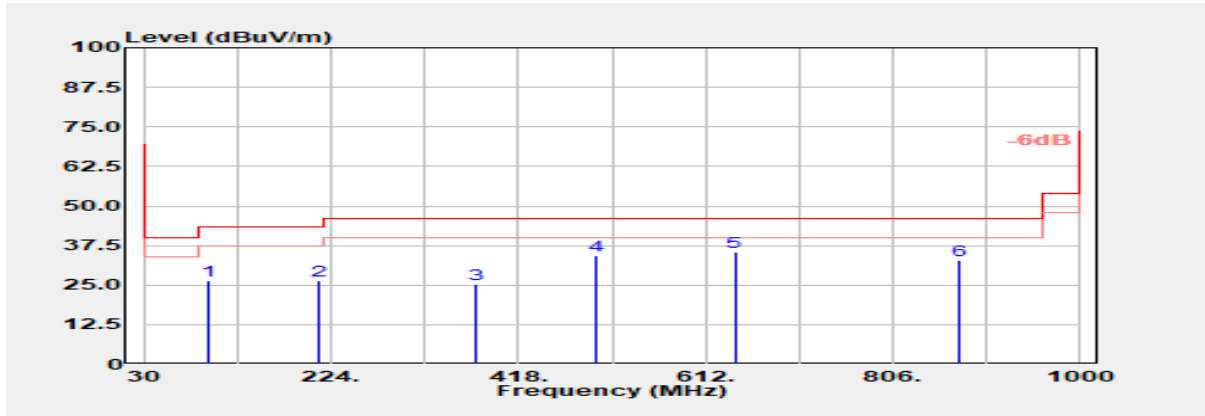
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-17
 Temp./Humi. :20.8/68
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
96.930	Peak	46.77	-20.28	26.49	43.50	-17.01
210.420	Peak	45.63	-19.37	26.26	43.50	-17.24
374.350	Peak	38.83	-13.50	25.33	46.00	-20.67
499.480	Peak	45.00	-10.63	34.38	46.00	-11.62
642.070	Peak	43.81	-8.37	35.44	46.00	-10.56
874.870	Peak	39.40	-6.59	32.81	46.00	-13.19

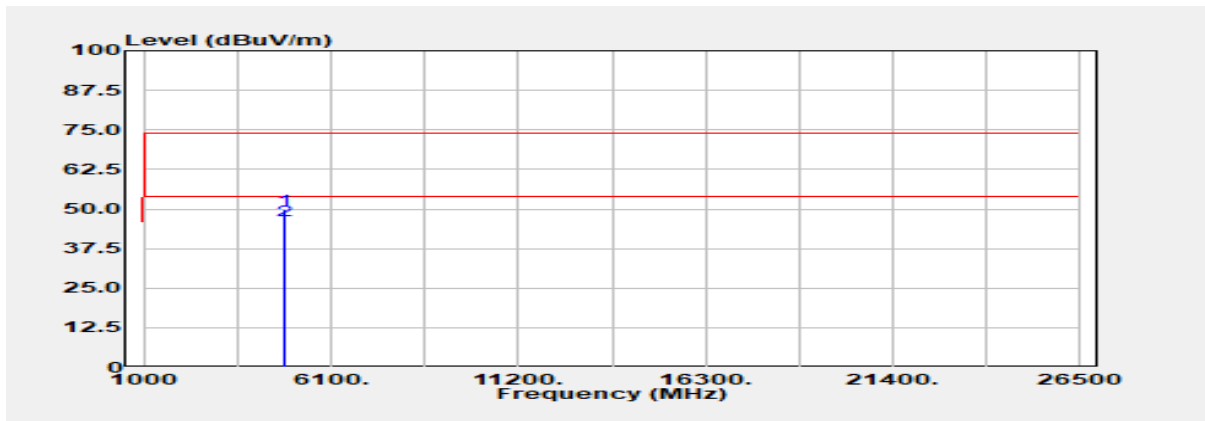
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11.7.3 Above 1GHz Emission:

Report Number	:E2/2020/B0036	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2020-12-22
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/59
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	35.84	10.56	46.40	54.00	-7.60
4824.000	Peak	39.40	10.56	49.96	74.00	-24.04

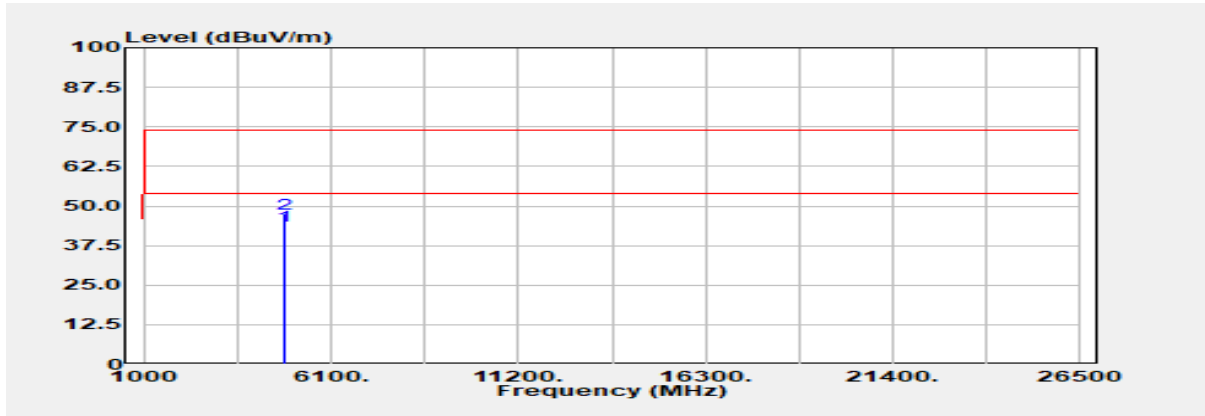
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.8/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	33.06	10.56	43.62	54.00	-10.38
4824.000	Peak	36.95	10.50	47.45	74.00	-26.55

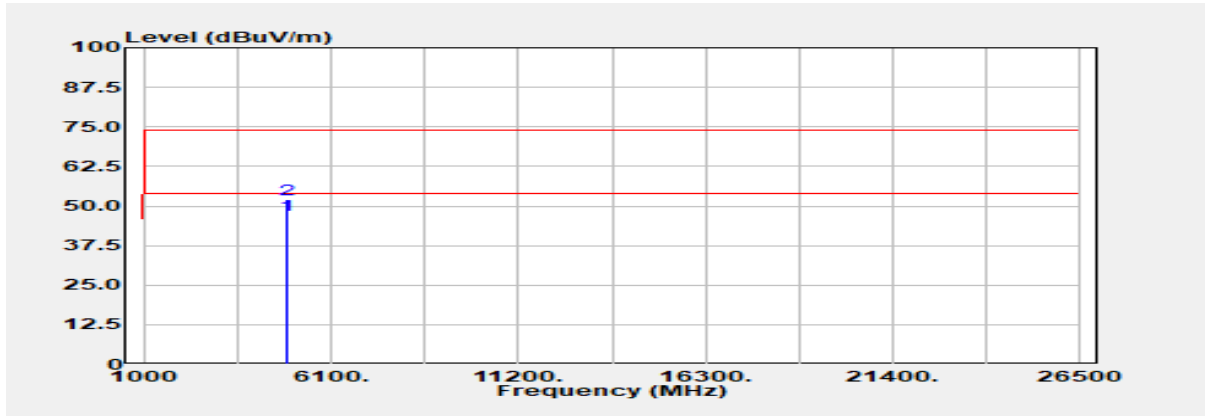
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	36.76	10.33	47.09	54.00	-6.91
4874.000	Peak	41.58	10.33	51.91	74.00	-22.09

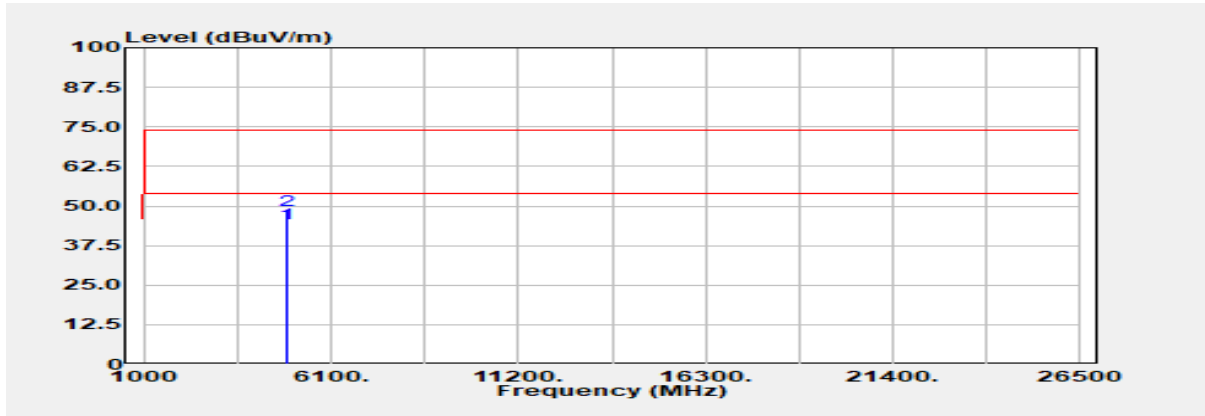
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	34.33	10.33	44.66	54.00	-9.34
4874.000	Peak	38.37	10.33	48.70	74.00	-25.30

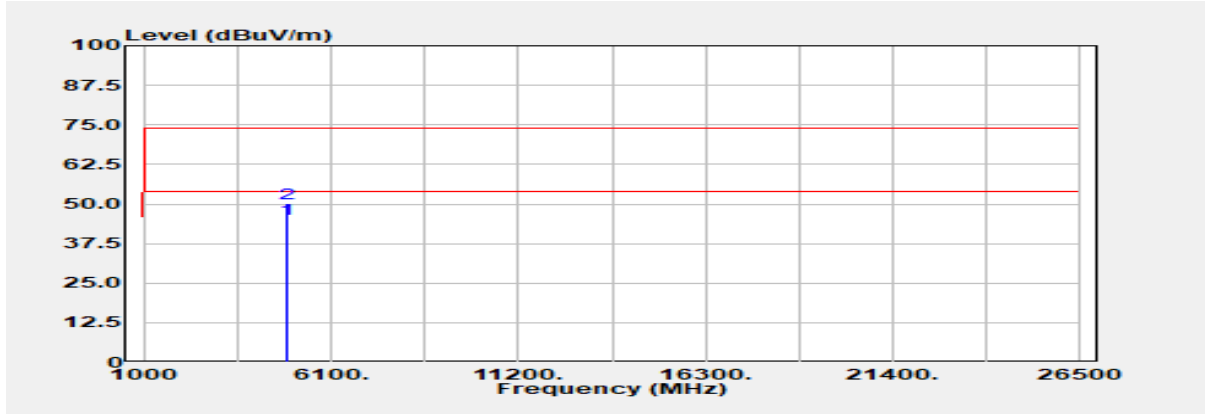
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Report Number :E2/2020/B0036
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



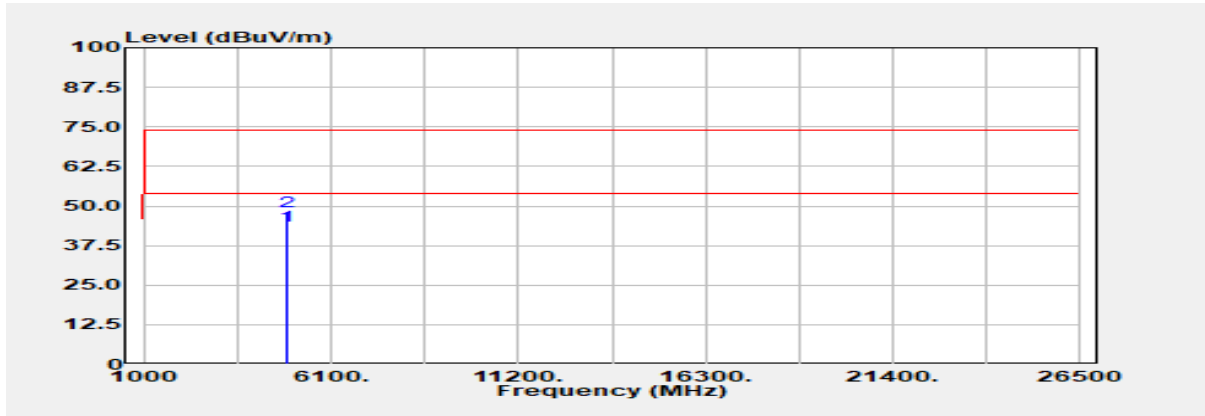
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	35.13	10.12	45.25	54.00	-8.75
4924.000	Peak	40.15	10.12	50.26	74.00	-23.74

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Report Number	:E2/2020/B0036	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2020-12-22
Test Frequency	:2462 MHz	Temp./Humi.	:22.6/60
Test Mode	:TX CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plan	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	33.79	10.12	43.91	54.00	-10.09
4924.000	Peak	38.37	10.12	48.49	74.00	-25.51

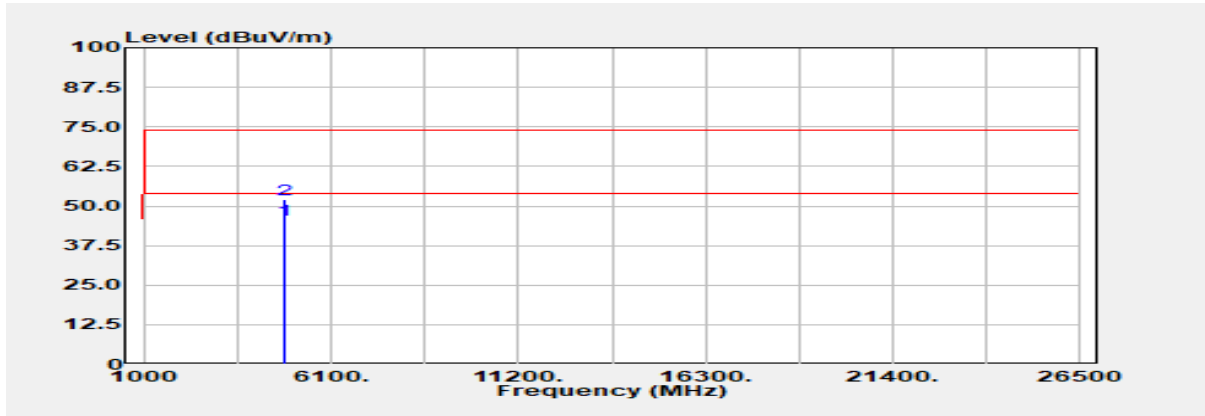
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	35.16	10.56	45.72	54.00	-8.28
4824.000	Peak	41.71	10.50	52.21	74.00	-21.79

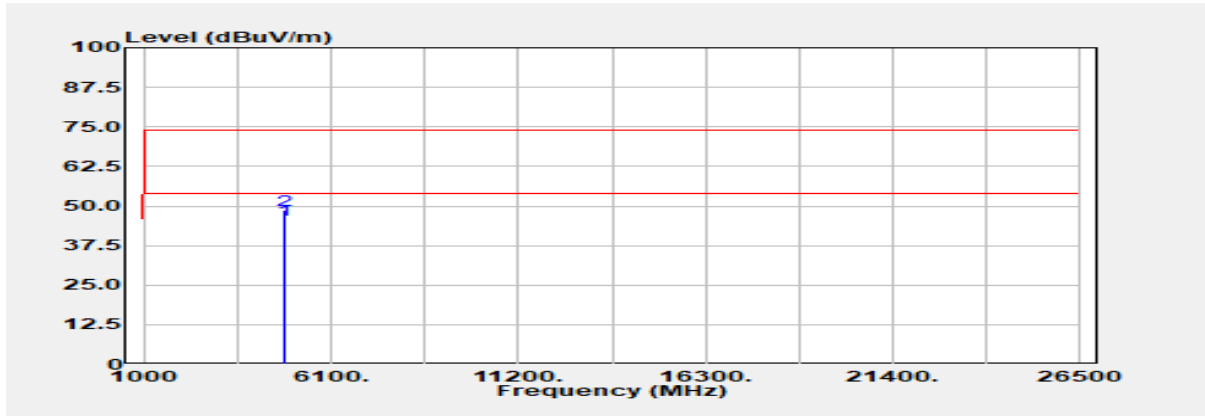
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	35.23	10.56	45.79	54.00	-8.21
4824.000	Peak	38.30	10.56	48.86	74.00	-25.14

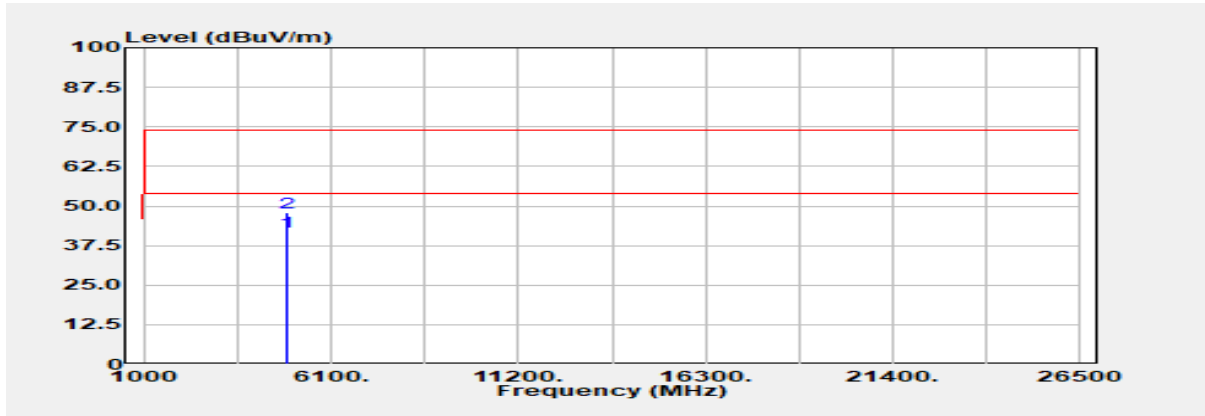
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	31.42	10.33	41.75	54.00	-12.25
4874.000	Peak	37.64	10.33	47.97	74.00	-26.03

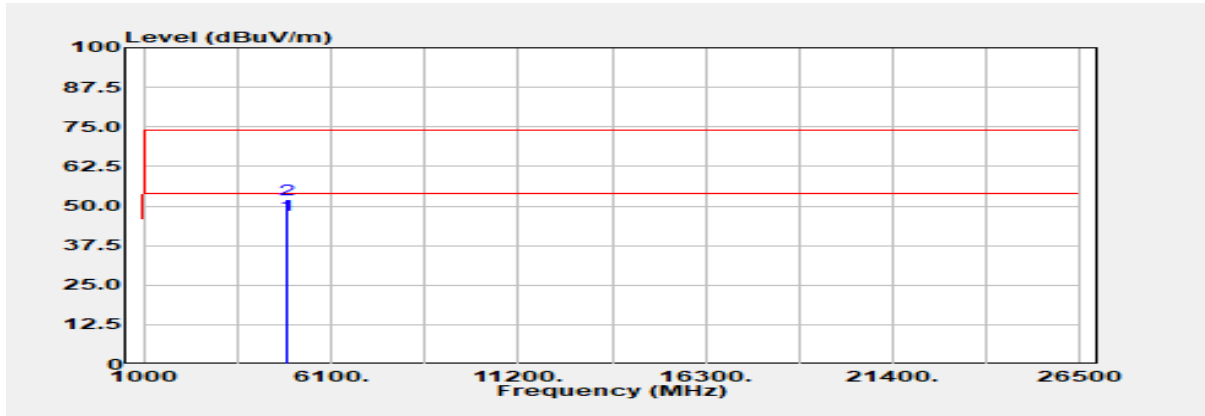
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	36.94	10.33	47.27	54.00	-6.73
4874.000	Peak	41.57	10.47	52.04	74.00	-21.96

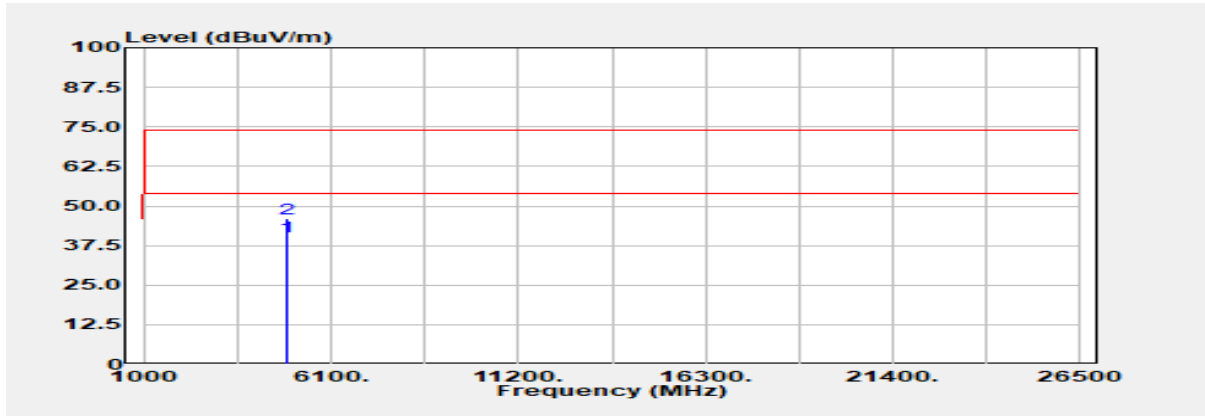
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	30.24	10.12	40.36	54.00	-13.64
4924.000	Peak	35.74	10.28	46.02	74.00	-27.98

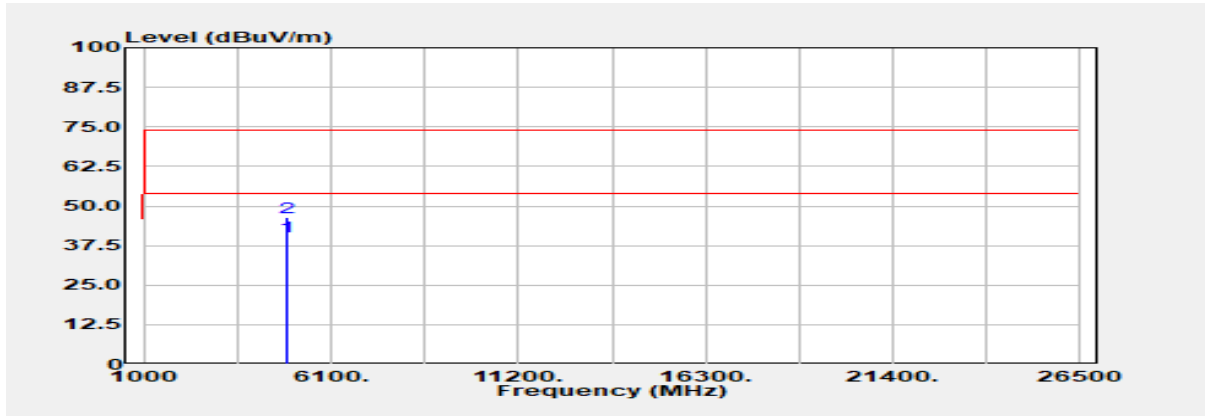
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Report Number :E2/2020/B0036
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :22.6/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	30.21	10.12	40.33	54.00	-13.67
4924.000	Peak	36.14	10.12	46.26	74.00	-27.74

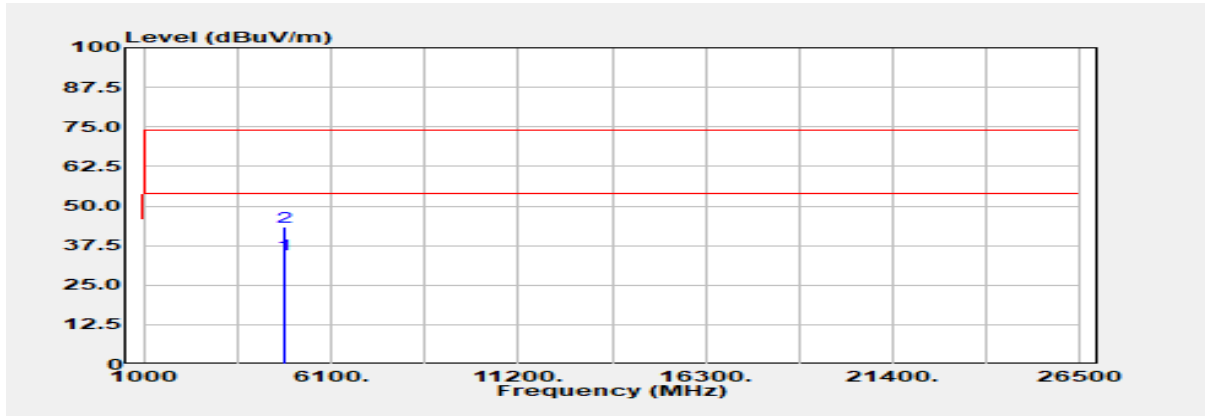
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	24.18	10.56	34.74	54.00	-19.26
4824.000	Peak	32.80	10.56	43.36	74.00	-30.64

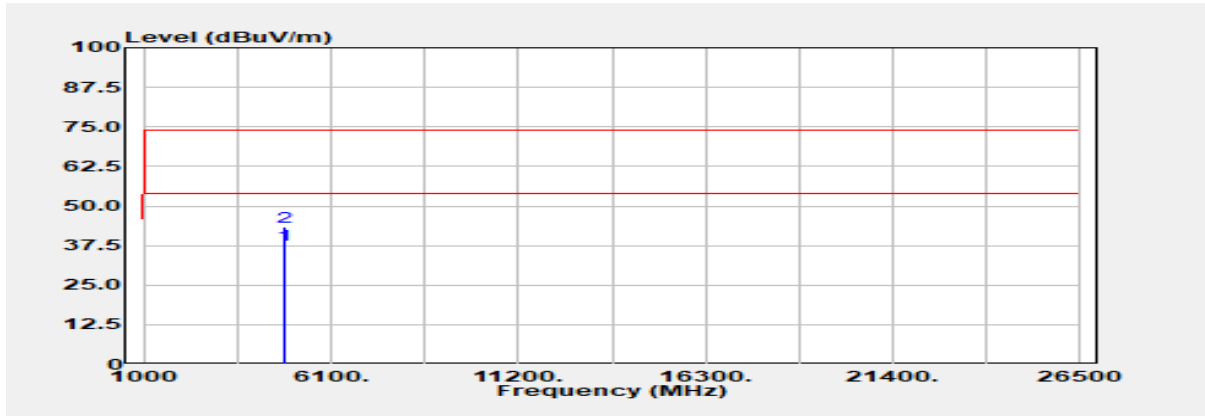
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	27.23	10.56	37.79	54.00	-16.21
4824.000	Peak	32.93	10.56	43.49	74.00	-30.51

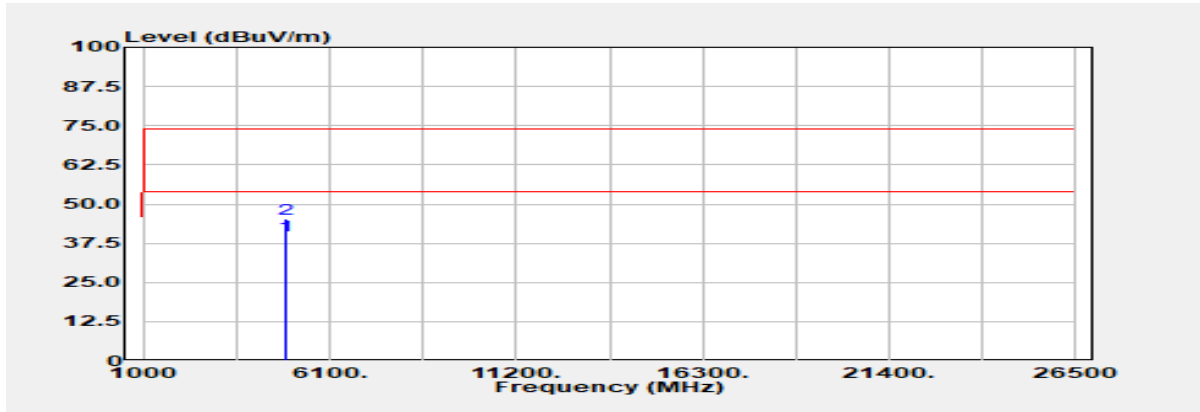
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	29.76	10.33	40.09	54.00	-13.91
4874.000	Peak	35.02	10.33	45.35	74.00	-28.65

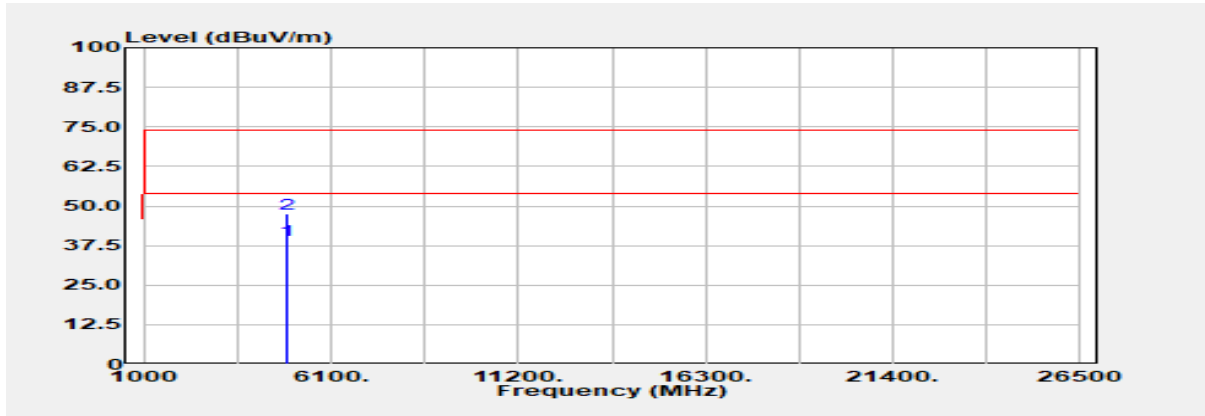
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-22
 Temp./Humi. :21.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.93	10.33	39.26	54.00	-14.74
4874.000	Peak	37.32	10.33	47.64	74.00	-26.36

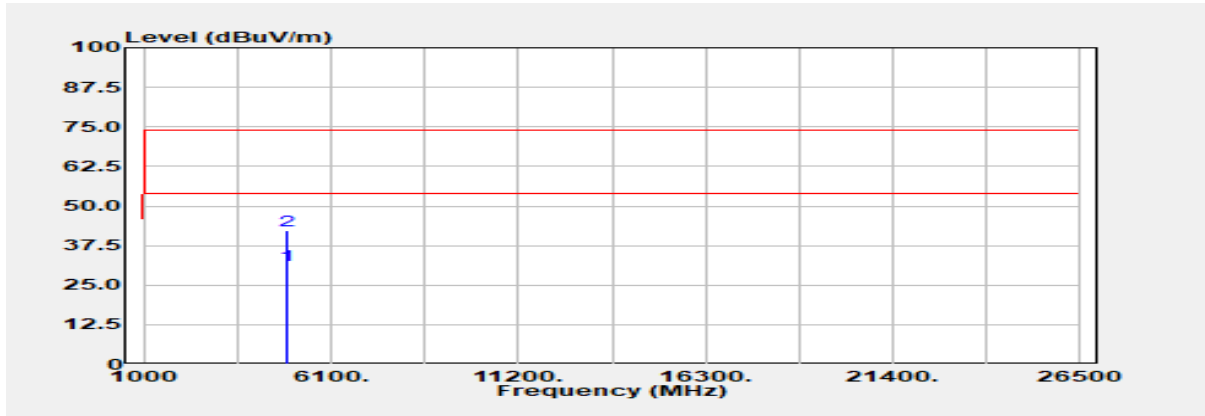
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	21.21	10.12	31.33	54.00	-22.67
4924.000	Peak	32.09	10.12	42.21	74.00	-31.79

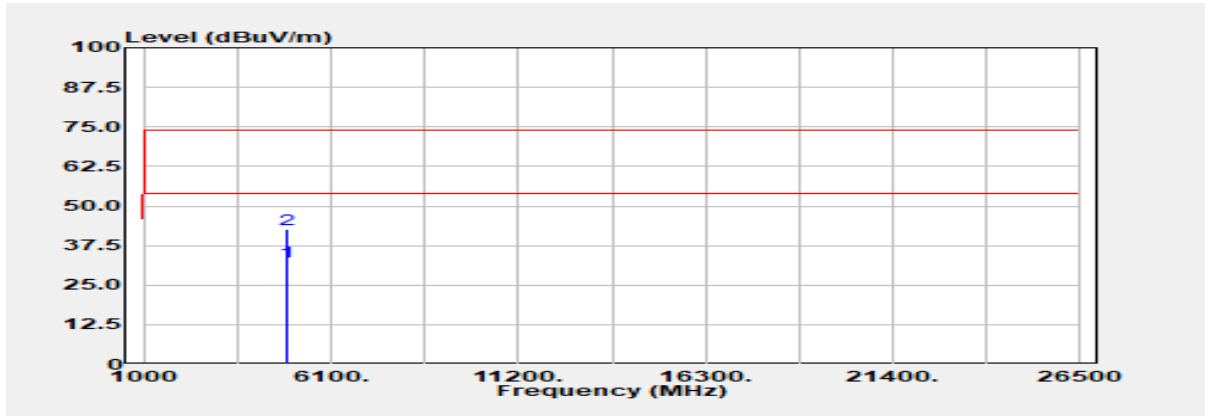
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Report Number :E2/2020/B0036
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	22.16	10.12	32.28	54.00	-21.72
4924.000	Peak	32.60	10.12	42.72	74.00	-31.28

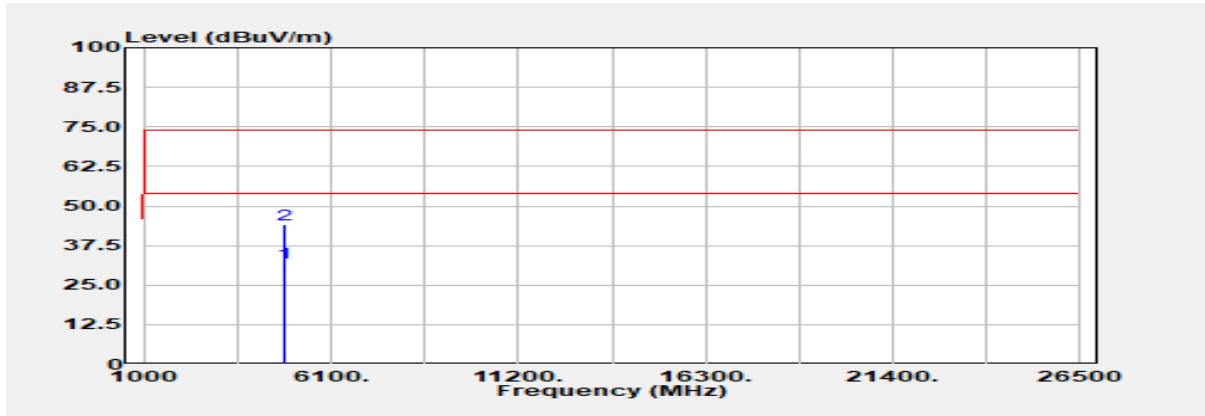
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.000	Average	21.48	10.69	32.17	54.00	-21.83
4844.000	Peak	33.32	10.69	44.00	74.00	-30.00

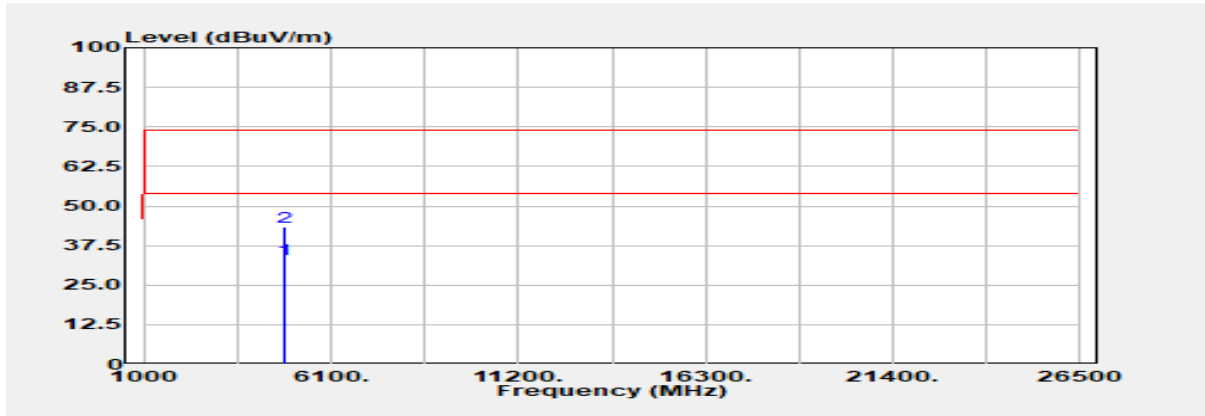
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.000	Average	22.52	10.69	33.21	54.00	-20.79
4844.000	Peak	32.57	10.69	43.26	74.00	-30.74

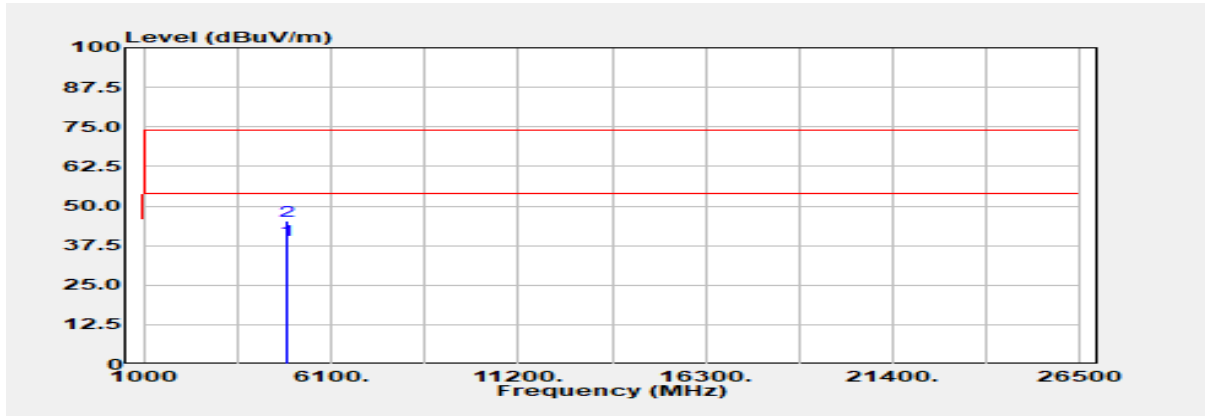
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.87	10.33	39.20	54.00	-14.80
4874.000	Peak	34.89	10.33	45.22	74.00	-28.78

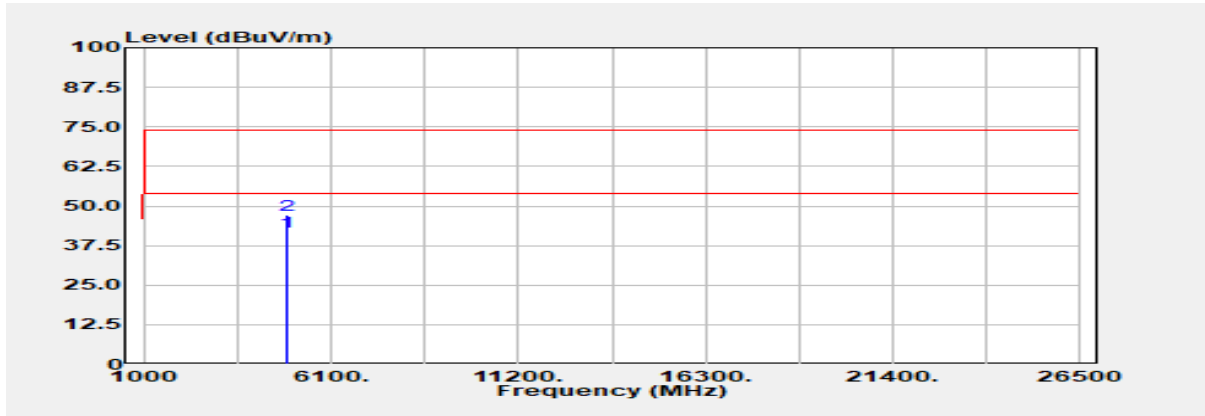
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	31.67	10.33	42.00	54.00	-12.00
4874.000	Peak	36.97	10.33	47.29	74.00	-26.71

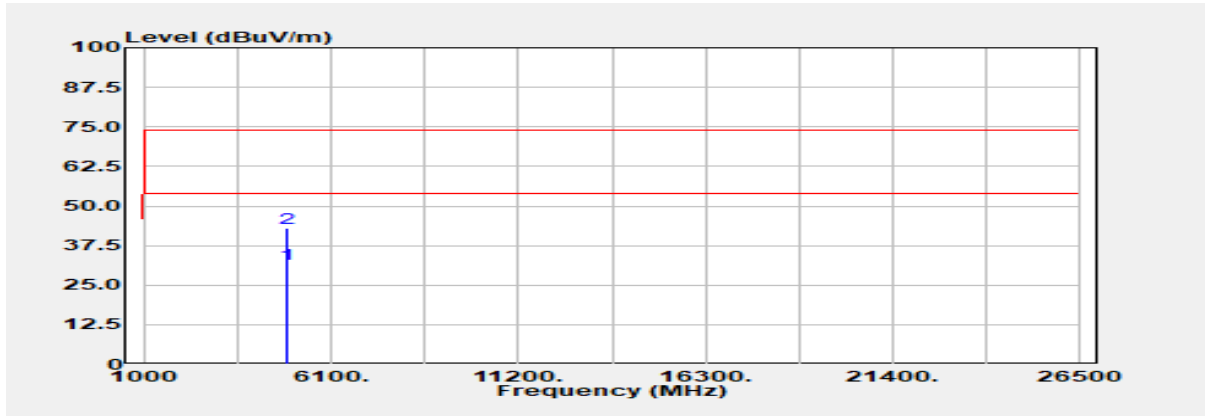
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.000	Average	21.39	10.20	31.59	54.00	-22.41
4904.000	Peak	32.64	10.20	42.84	74.00	-31.16

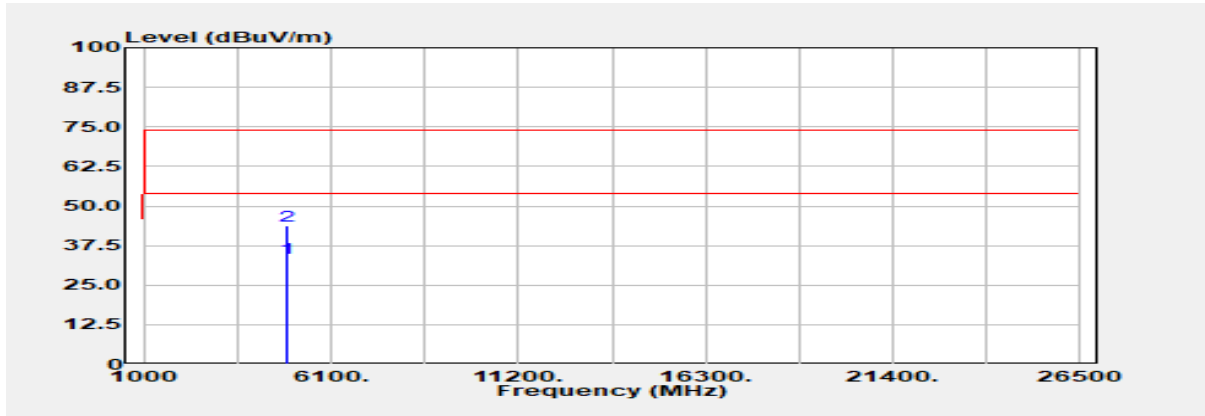
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Report Number :E2/2020/B0036
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Site :966 Chamber C
 Test Date :2020-12-21
 Temp./Humi. :21.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.000	Average	23.37	10.20	33.57	54.00	-20.43
4904.000	Peak	33.61	10.20	43.81	74.00	-30.19

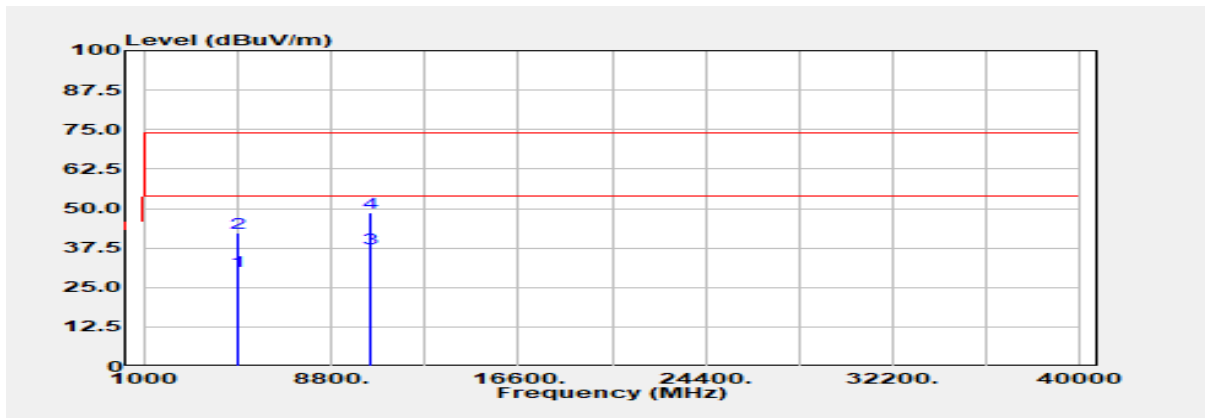
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Simultaneous

Report Number	:E2/2020/B0037	Test Site	:966 Chamber D
Operation Mode	:802.11b&802.11a/Band 1	Test Date	:2021-02-22
Test Frequency	:2437 MHZ/5220 MHZ	Temp./Humi.	:21.1/49
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	33.37	-3.00	30.37	54.00	-23.63
4874.000	Peak	45.12	-3.00	42.12	74.00	-31.88
10440.000	Average	29.38	7.95	37.33	54.00	-16.67
10440.000	Peak	40.65	7.95	48.60	74.00	-25.40

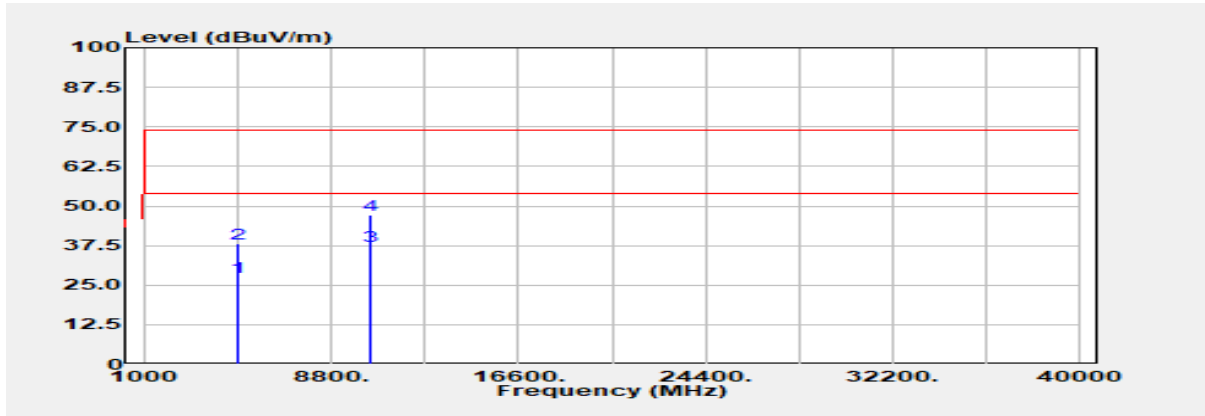
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Report Number :E2/2020/B0037
 Operation Mode :802.11b&802.11a/Band 1
 Test Frequency :2437 MHZ/5220 MHZ
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Site :966 Chamber D
 Test Date :2021-02-22
 Temp./Humi. :21.1/49
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	30.41	-3.00	27.41	54.00	-26.59
4874.000	Peak	41.07	-3.00	38.07	74.00	-35.93
10440.000	Average	29.46	7.95	37.40	54.00	-16.60
10440.000	Peak	39.26	7.95	47.21	74.00	-26.79

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

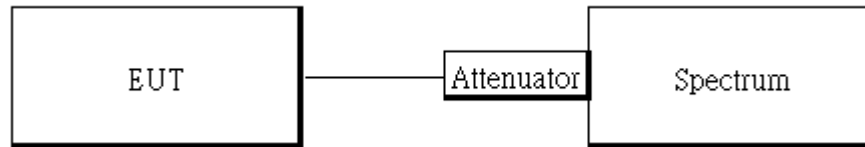
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

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

12.5 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi and has been taken into account in the test result.

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12.6 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch2 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	3.4	3.40	8.00	PASS
2437	3.36	3.36	8.00	PASS
2462	2.84	2.84	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch2 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.47	-3.47	8.00	PASS
2437	-3.28	-3.28	8.00	PASS
2462	-3.3	-3.30	8.00	PASS

POWER DENSITY 802.11n HT20						
Freq. (MHz)	Ch0 PSD	Ch1 PSD	Ch2 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.07	-11.54	-9.38	-4.88	6.40	PASS
2437	-10.08	-12.33	-11.01	-5.68	6.40	PASS
2462	-12.02	-11.83	-11.9	-6.55	6.40	PASS

POWER DENSITY 802.11n HT40						
Freq. (MHz)	Ch0 PSD	Ch1 PSD	Ch2 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-13.53	-13.38	-13.16	-8.15	6.40	PASS
2437	-13.75	-15.05	-13.3	-8.77	6.40	PASS
2452	-13.89	-13.98	-13.88	-8.72	6.40	PASS

Note

Cable Loss: 10.80 dB

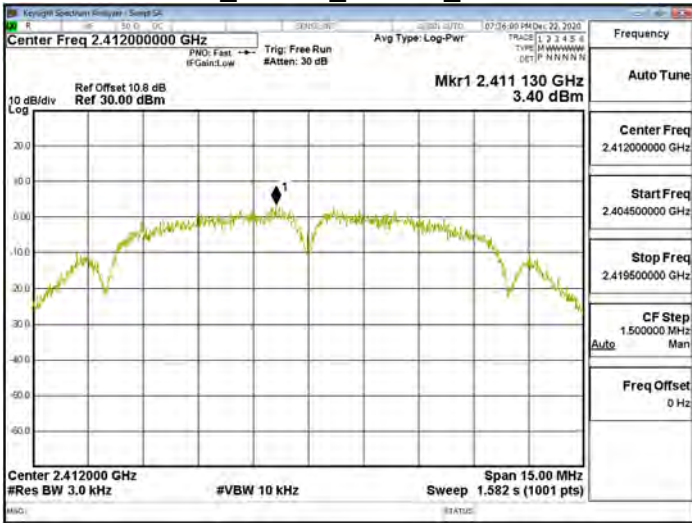
*Refer to next page for plots

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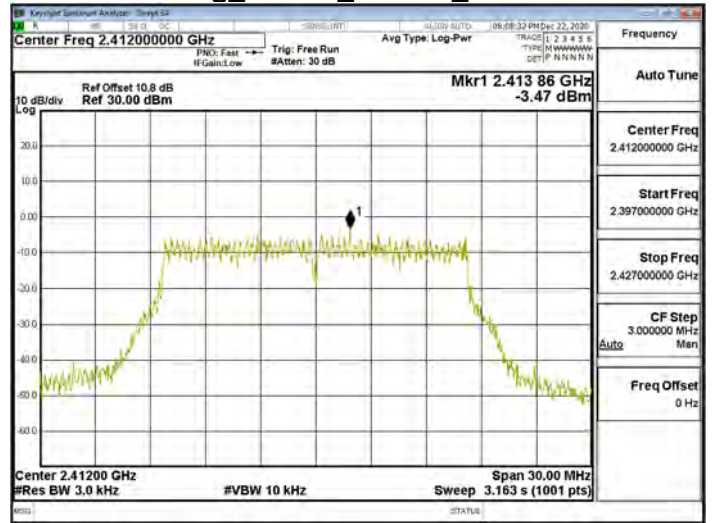
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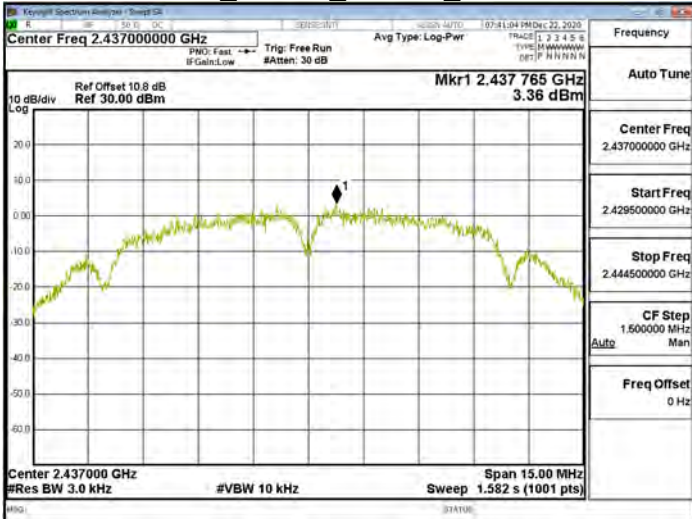
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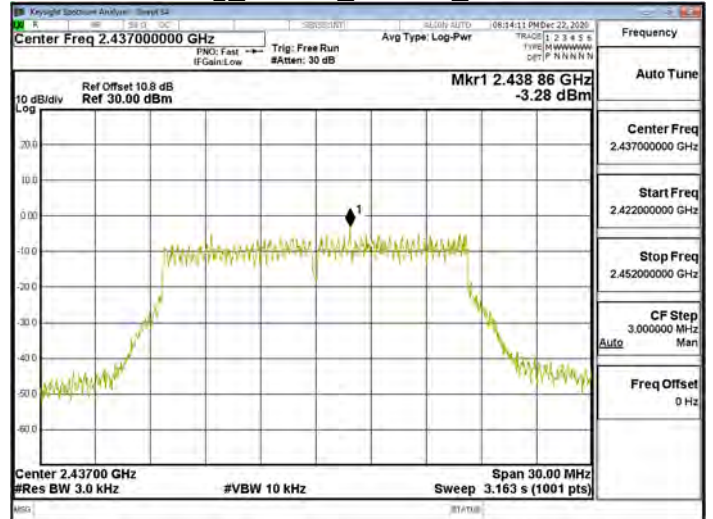
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802.11b_20MHz_Chain2_2437MHz



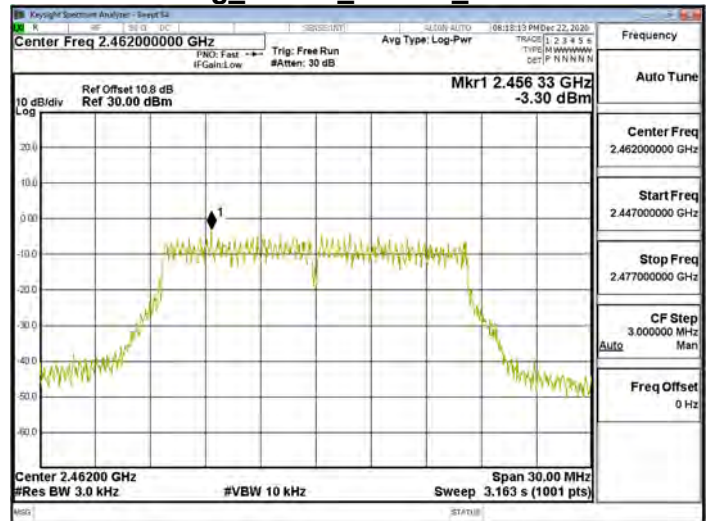
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802.11b_20MHz_Chain2_2462MHz



802.11g_20MHz_Chain2_2462MHz

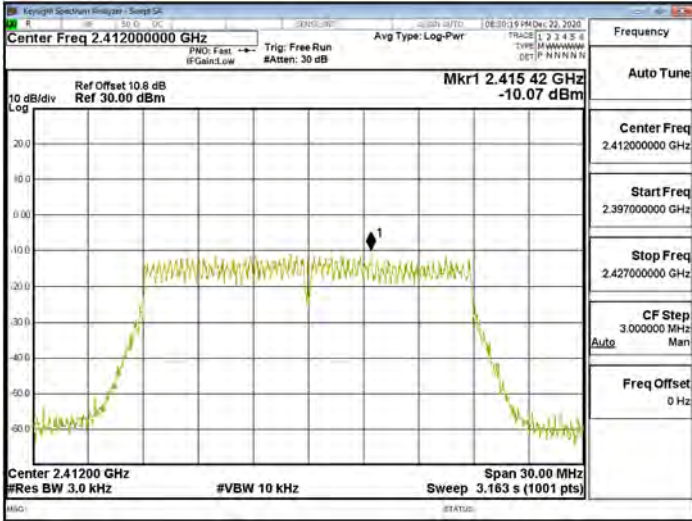


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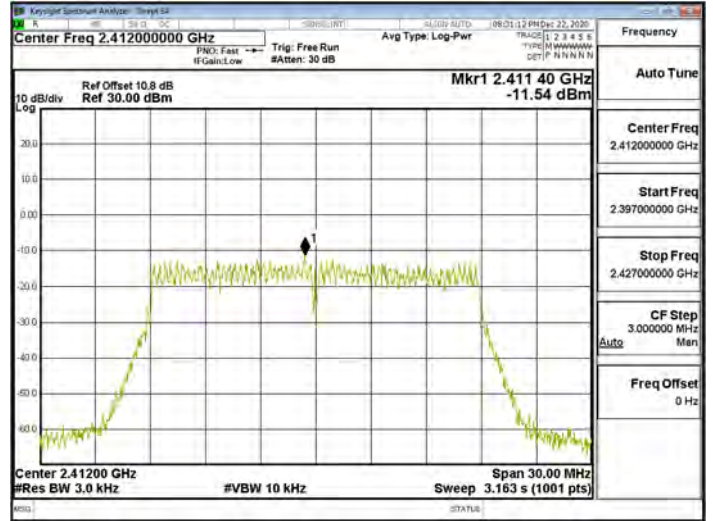
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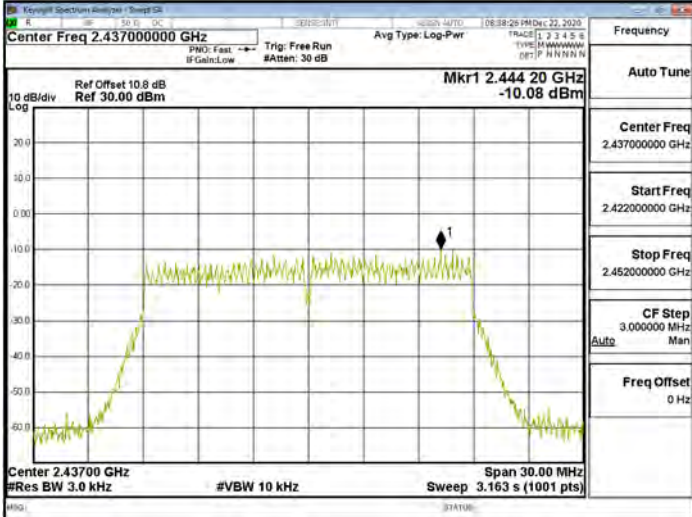
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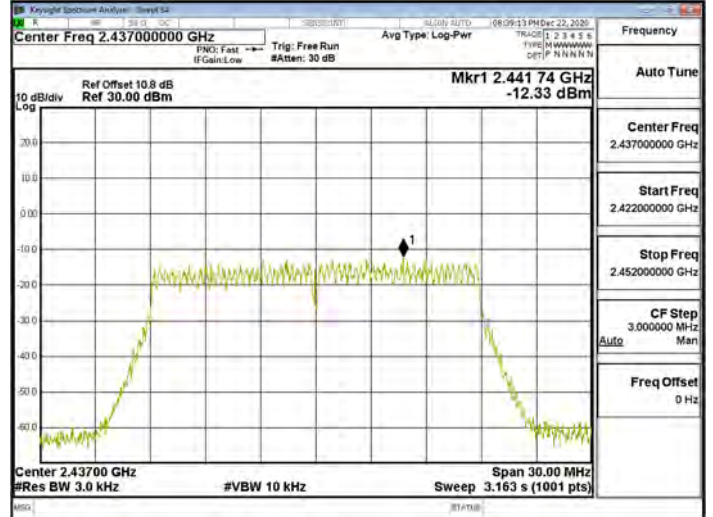
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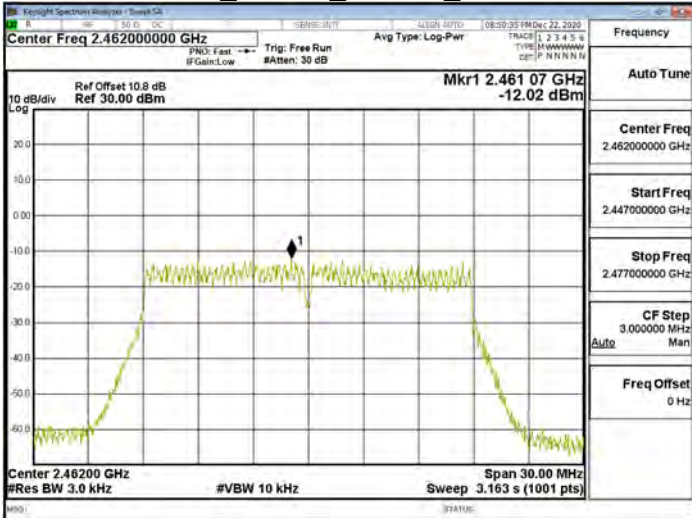
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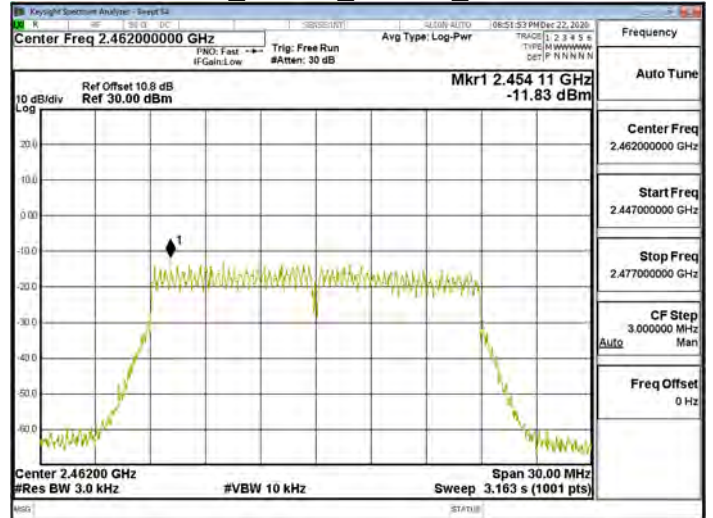
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802.11n_20MHz_Chain0_2462MHz



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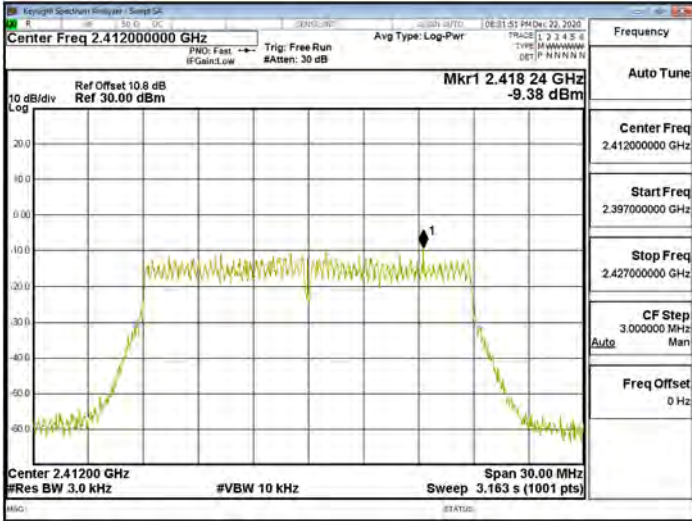


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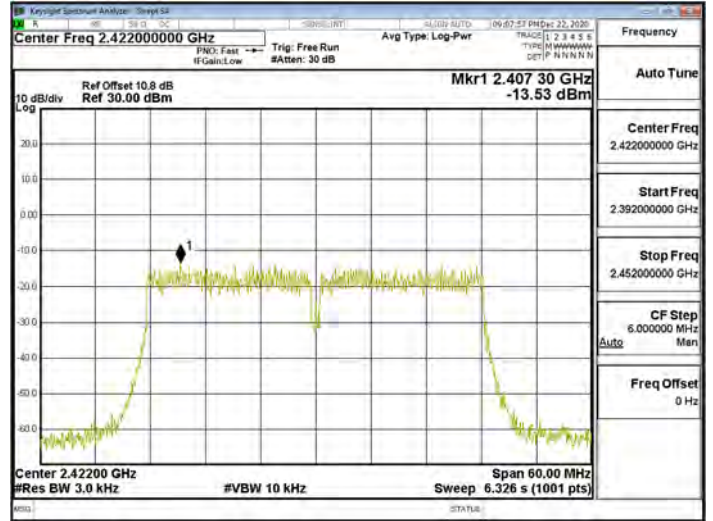
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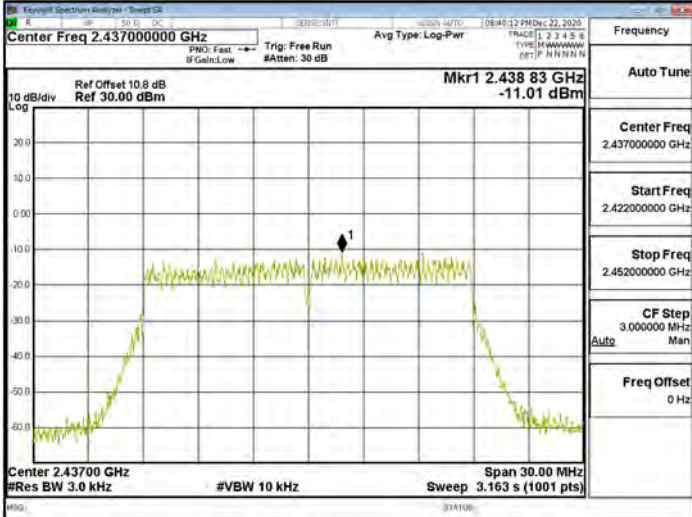
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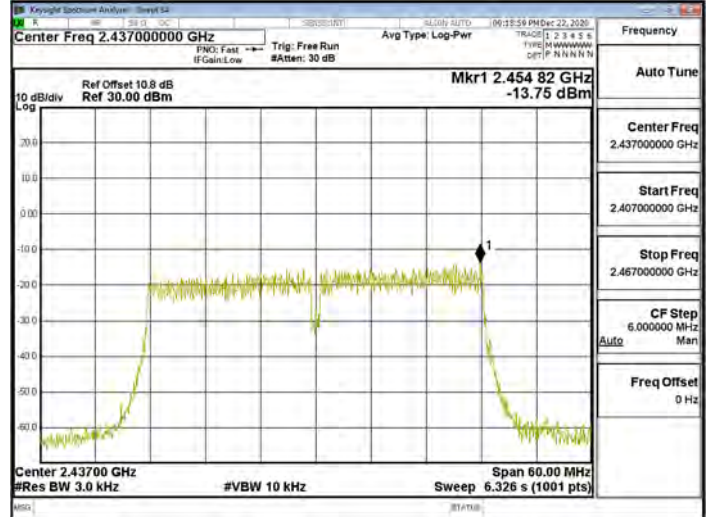
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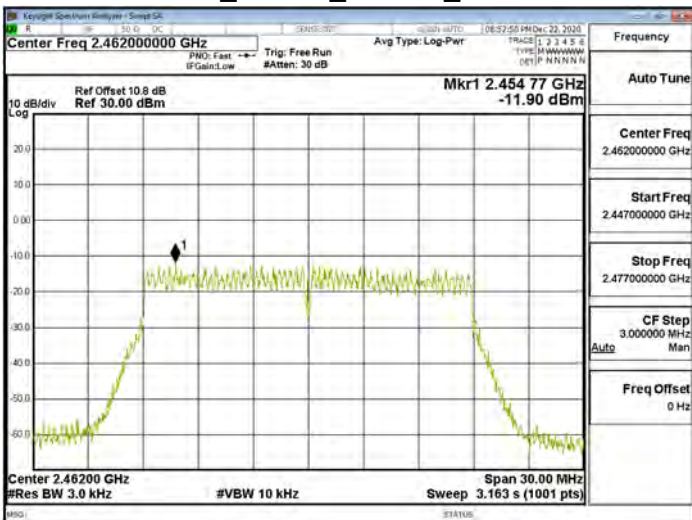
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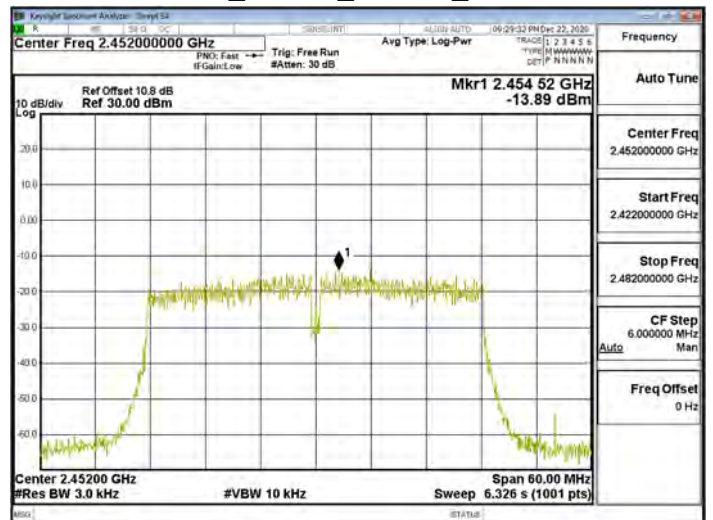
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802.11n_20MHz_Chain2_2462MHz



802.11n_40MHz_Chain0_2452MHz

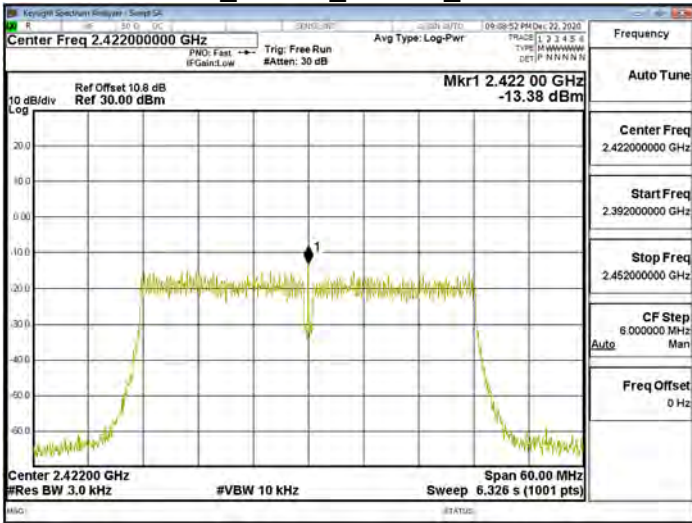


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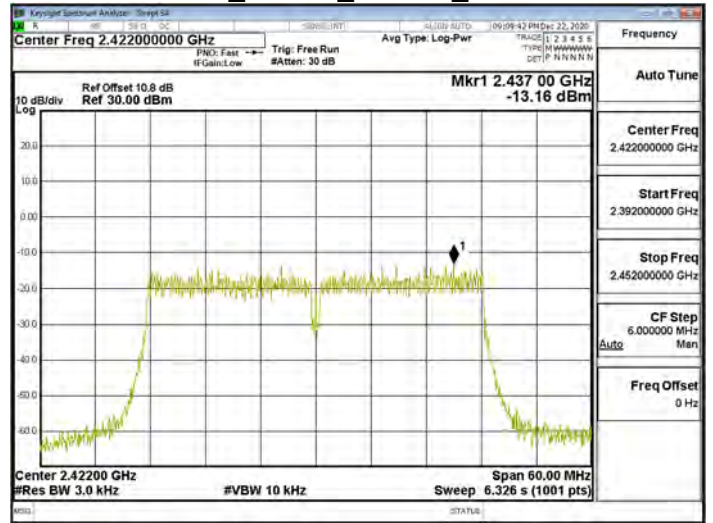
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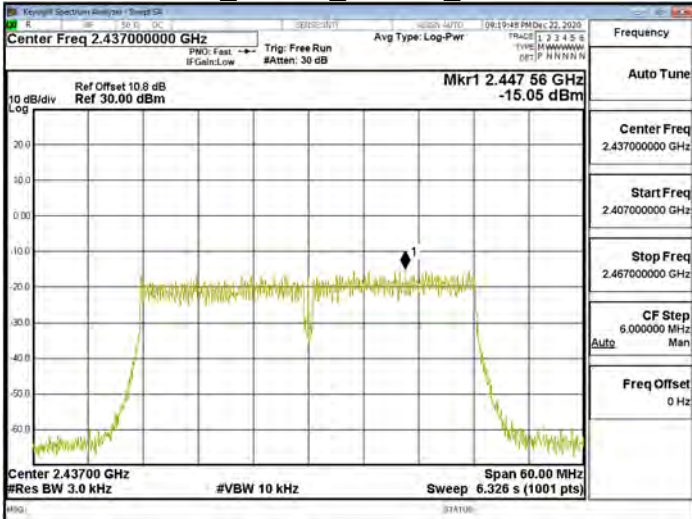
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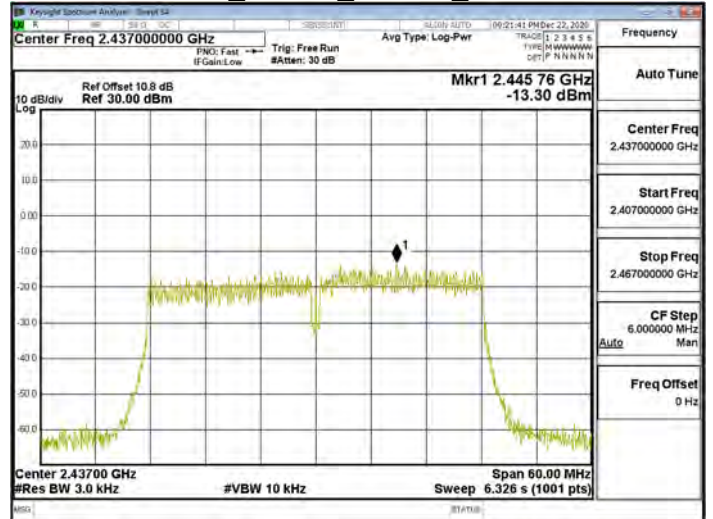
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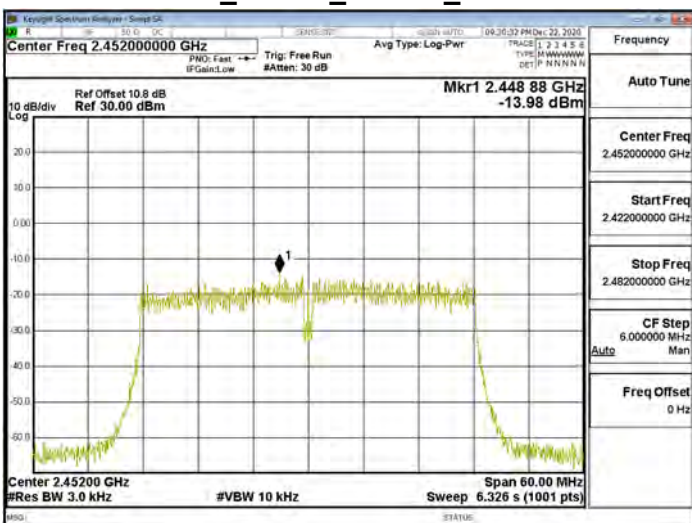
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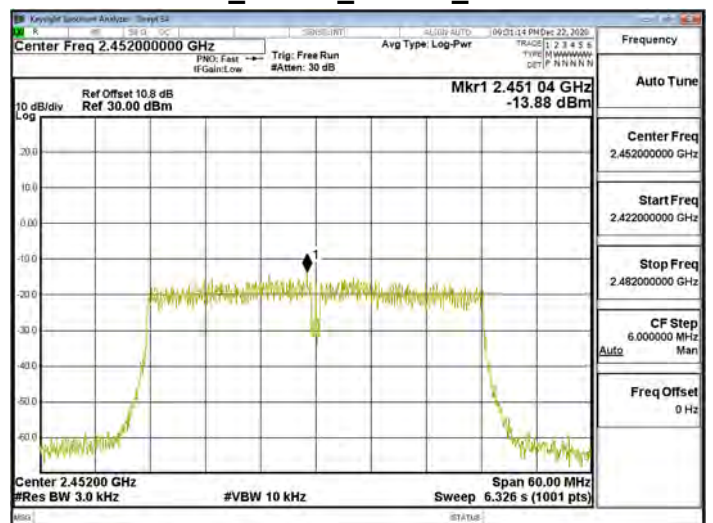
802.11n_40MHz_Chain2_2437MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain2_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

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

~ End of Report ~

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