

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

**Applicant:** FUJITSU CONNECTED TECHNOLOGIES Ltd.  
Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

**Product Name:** Smart Phone

**Brand Name:** FUJITSU

**Model No.:** F-42A

**Model Difference:** N/A

**Report Number:** ER/2020/40013

**FCC ID:** 2AQYEFMP178

**FCC Rule Part:** §15.247, Cat: DTS

**Issue Date:** May 8th, 2020

**Date of Test:** Apr. 14th, 2020 ~ May 4th, 2020

**Date of EUT Re-  
ceived:** Mar. 31st, 2020

## We hereby certify that:

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

Approved By: \_\_\_\_\_

CHUN-CHIEH, CHEN  
**Chun Chieh Chen / Supervisor**



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## Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/40013	Rev.00	Original.	May 8th, 2020	Revised By: Yuri Tsai

**Note:**

## 1、Disclaimer

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

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## Table of Contents

1	GENERAL INFORMATION.....	4
2	SYSTEM TEST CONFIGURATION .....	6
3	SUMMARY OF TEST RESULTS .....	9
4	DESCRIPTION OF TEST MODES.....	10
5	MEASUREMENT UNCERTAINTY.....	12
6	CONDUCTED EMISSION TEST .....	13
7	DUTY CYCLE OF TEST SIGNAL.....	17
8	PEAK OUTPUT POWER MEASUREMENT .....	19
9	6dB BANDWIDTH MEASUREMENT.....	23
10	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT .....	27
11	RADIATED BANEDGE AND SPURIOUS EMISSION MEASUREMENT.....	35
12	POWER SPECTRAL DENSITY .....	72
13	ANTENNA REQUIREMENT .....	77

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# 1 GENERAL INFORMATION

## 1.1 Product description

Product Name:	Smart Phone	
Brand Name:	FUJITSU	
Model No.:	F-42A	
Model Difference:	N/A	
Hardware Version:	V1.2.0	
Software Version:	V00R016Ve	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery	
	Battery:	Model No.:CA54310-0075 Supplier: FUJITSU CONNECTED TECHNOLOGIES LIMITED

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	17.93	DSSS,
g			23.68	OFDM
n_HT20			23.74	
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Antenna Designation:	λ/4 Monopole Antenna, Peak Gain: -3.7dBi			
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_HT20MHz: 6.5 – 72.2 Mbps			

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## 1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10:2013

## 1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)  
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803  
FCC Designation number: TW0001

## 1.4 Special Accessories

There are no special accessories used while test was conducted.

## 1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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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

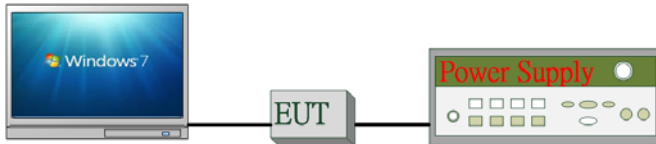


Fig 2-3 Conduction (AC Power Line) Radiated Emission

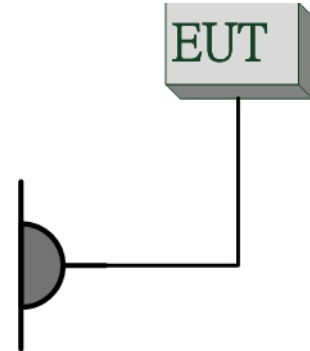


Table 2-1 Equipment Used in Tested System

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

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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)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated 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.

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

### 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. aTest 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				Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> MIMO

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

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#### 4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
<b>RADIATED EMISSION TEST (BELOW 1 GHz)</b>					
802.11g	1 to 11	6	OFDM	6	Ch0
<b>RADIATED EMISSION TEST (ABOVE 1 GHz)</b>					
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0
802.11n20M	1 to 11	1, 6, 11	OFDM	MCS 0	Ch0
<b>Note:</b> 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 E2 position was reported.					

#### 4.4 Antenna Port Conducted Measurement:

<b>CONDUCTED TEST</b>					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 0	Ch0

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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	
<b>Polarization: Vertical</b>	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
<b>Polarization: Horizontal</b>	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

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

### 6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	Jul. 4th, 2019	Jul. 3rd, 2020
LISN	SCHWARZBECK	NSLK 8127	8127-649	Jun. 3rd, 2020	Jun. 2nd, 2020
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R
Coaxial Cables	N/A	WK CE Cable	N/A	Jan. 2nd, 2020	Jan. 1st, 2021

### 6.3 EUT Setup

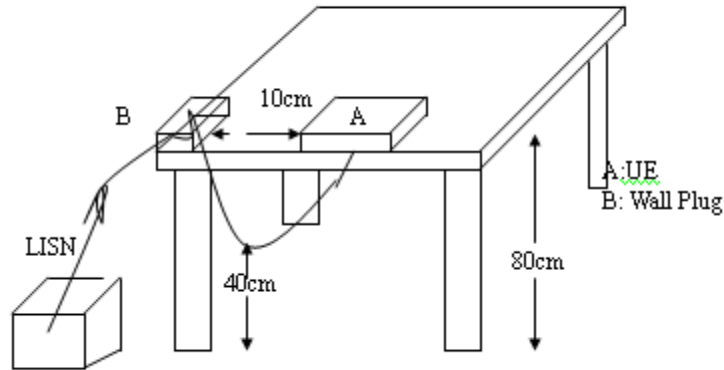
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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.

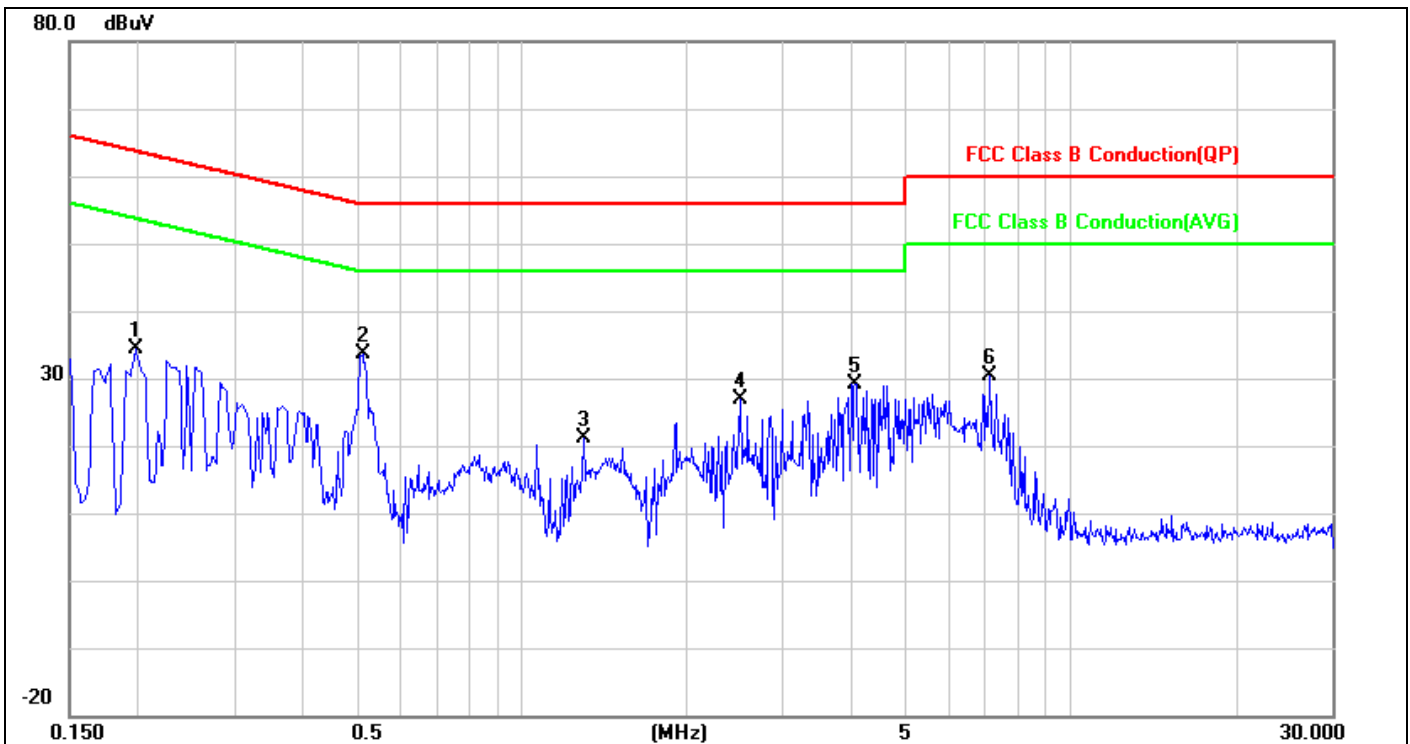
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2020/04/29
Line:	L1	Temp.(°C)/Hum.(%):	23 (°C)/55%
Test Voltage:	AC 120V/60Hz	Test By:	Neo
Report Number	ER/2020/40013		



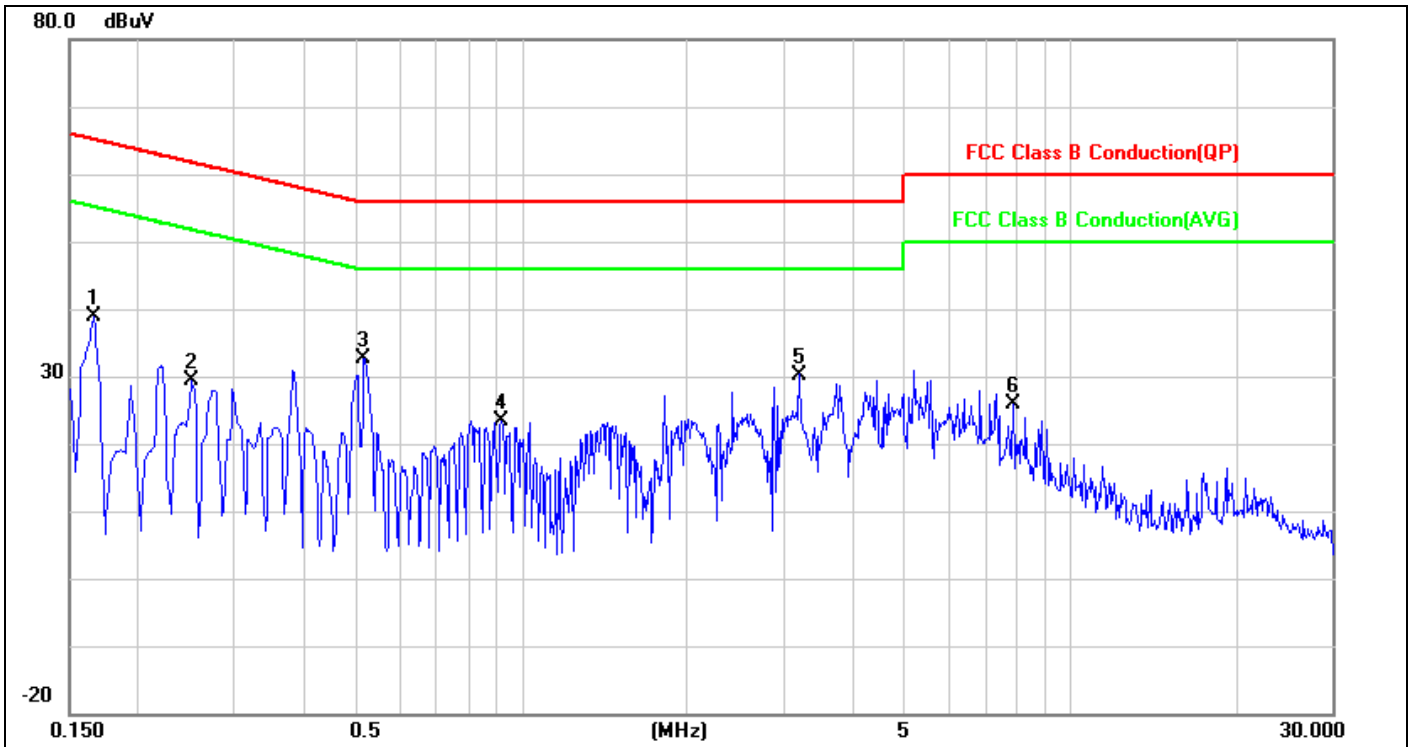
No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		( MHz )	( dBuV )	( dB )	( dBuV )	( dBuV )	( dB )	
1		0.1980	34.45	0.01	34.46	63.69	-29.23	peak
2	*	0.5140	33.59	0.01	33.60	56.00	-22.40	peak
3		1.3020	21.17	0.03	21.20	56.00	-34.80	peak
4		2.5020	26.86	0.07	26.93	56.00	-29.07	peak
5		4.0660	29.06	0.14	29.20	56.00	-26.80	peak
6		7.1620	30.24	0.23	30.47	60.00	-29.53	peak

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<b>Description:</b>	<b>Operation</b>	<b>Date:</b>	<b>2020/04/29</b>
<b>Line:</b>	<b>N</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>23(°C)/55%</b>
<b>Test Voltage:</b>	<b>AC 120V/60Hz</b>	<b>Test By:</b>	<b>Neo</b>
<b>Report Number:</b>	<b>ER/2020/40013</b>		



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		( MHz )	( dBuV )	( dB )	( dBuV )	( dBuV )	( dB )	
1		0.1660	38.88	0.00	38.88	65.16	-26.28	peak
2		0.2500	29.33	0.01	29.34	61.76	-32.42	peak
3	*	0.5180	32.60	0.01	32.61	56.00	-23.39	peak
4		0.9220	23.47	0.02	23.49	56.00	-32.51	peak
5		3.2100	30.15	0.10	30.25	56.00	-25.75	peak
6		7.8540	25.65	0.24	25.89	60.00	-34.11	peak

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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	100.00	0.00	0.00	0.01
802.11g	99.85	0.01	0.18	0.01
802.11n_20	99.82	0.01	0.20	0.01

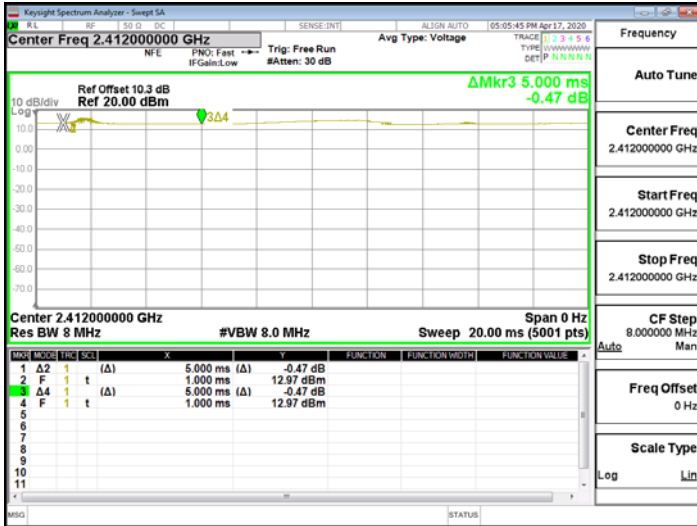
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### 7.3 Duty Cycle test plots

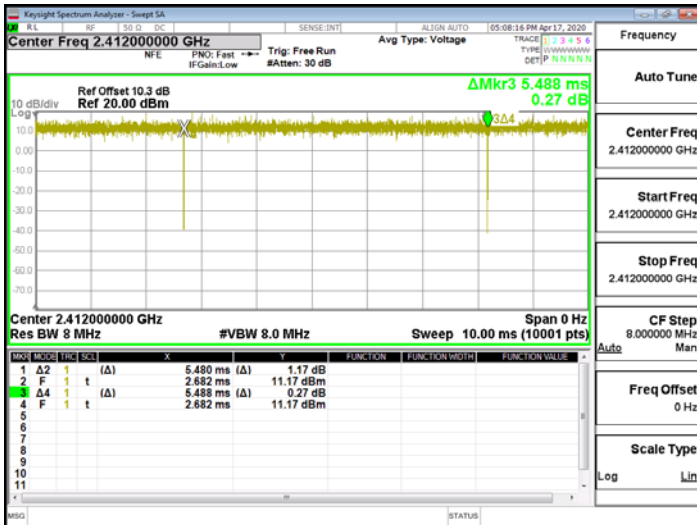
#### 802.11b\_20MHz



#### 802.11n\_20MHz



#### 802.11g\_20MHz



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## 8 PEAK OUTPUT POWER MEASUREMENT

### 8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

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

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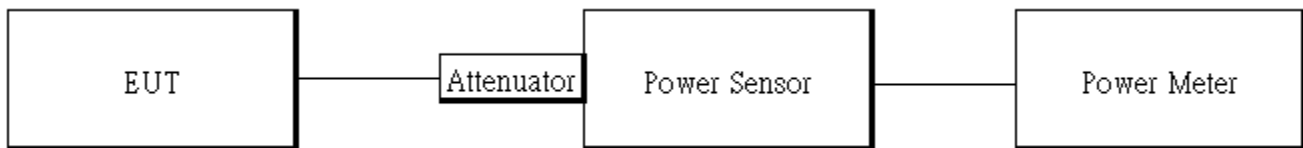
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## 8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	Feb. 20th, 2020	Feb. 19th, 2021
Power Sensor	Anritsu	MA2411B	1726104	Feb. 20th, 2020	Feb. 19th, 2021
Power Sensor	Anritsu	MA2411B	1726107	Feb. 20th, 2020	Feb. 19th, 2021
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

## 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	17.80	30.00	PASS
6	2437	1	17.64	30.00	PASS
11	2462	1	17.93	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	15.04	30.00	PASS
6	2437	1	14.91	30.00	PASS
11	2462	1	15.19	30.00	PASS

802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	23.51	30.00	PASS
6	2437	6	22.61	30.00	PASS
11	2462	6	23.68	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	14.89	30.00	PASS
6	2437	6	14.73	30.00	PASS
11	2462	6	15.11	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	23.74	30.00	PASS
6	2437	MCS0	22.83	30.00	PASS
11	2462	MCS0	23.68	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	14.75	30.00	PASS
6	2437	MCS0	14.77	30.00	PASS
11	2462	MCS0	15.24	30.00	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

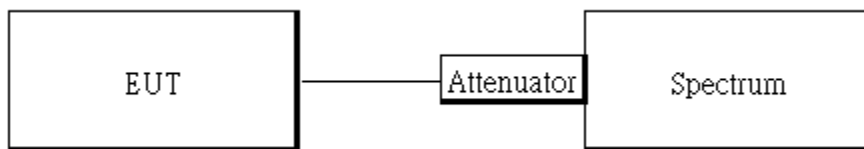
### 9.1 Standard Applicable

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.
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

### 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. For 6dB Bandwidth:  
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3\*RBW, Span = large enough to capture all products of the modulation process, Detector=peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.

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## 9.5 6dB Bandwidth

### 802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8107	> 500	PASS
2437	8545	> 500	PASS
2462	<b>8600</b>	> 500	PASS

### 802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	<b>16420</b>	> 500	PASS
2437	16410	> 500	PASS
2462	16380	> 500	PASS

### 802.11\_n\_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17620	> 500	PASS
2437	<b>17630</b>	> 500	PASS
2462	17590	> 500	PASS

*\*Refer to next page for plots*

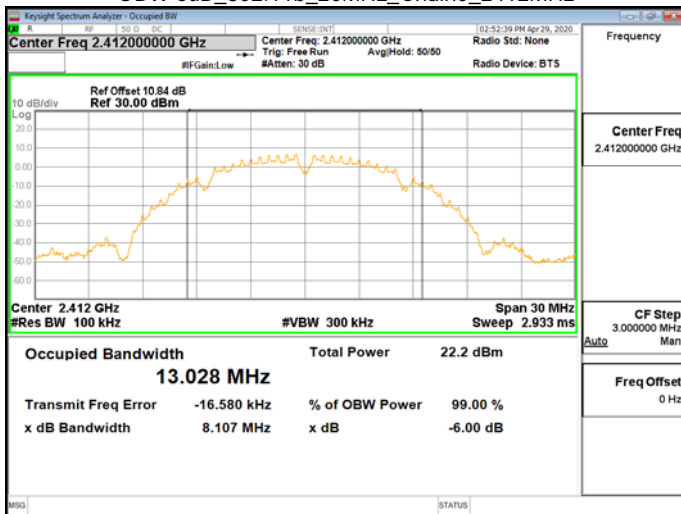
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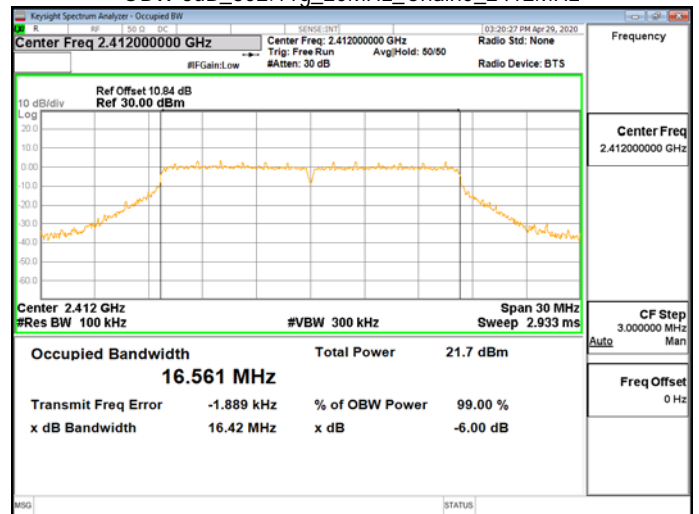
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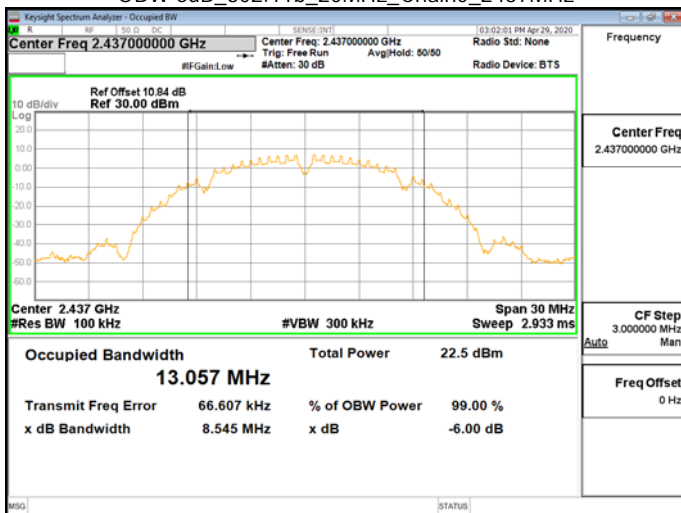
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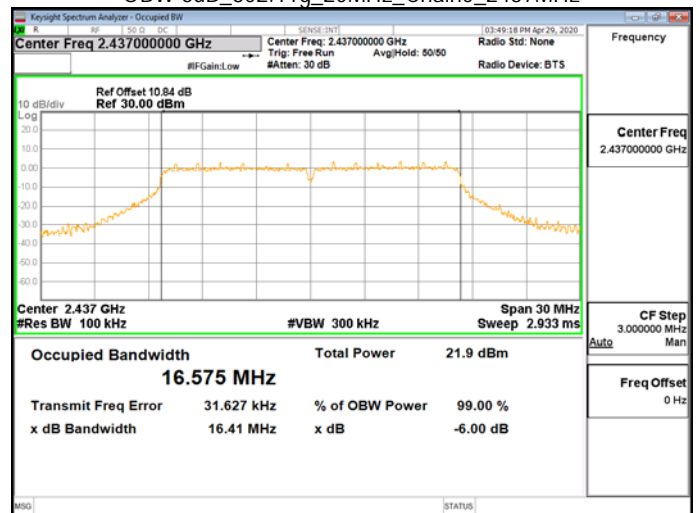
OBW 6dB\_802.11g\_20MHz\_Chain0\_2412MHz



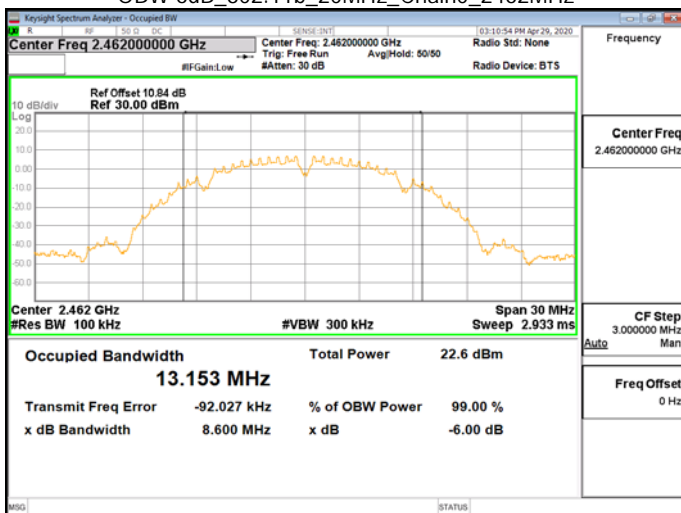
OBW 6dB\_802.11b\_20MHz\_Chain0\_2437MHz



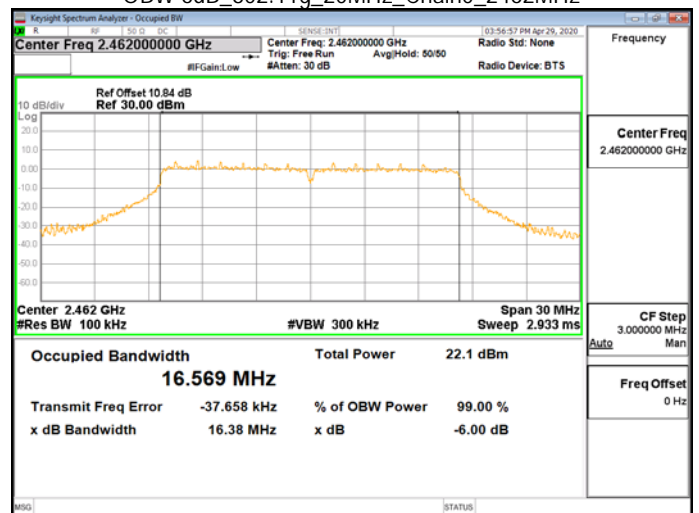
OBW 6dB\_802.11g\_20MHz\_Chain0\_2437MHz



OBW 6dB\_802.11b\_20MHz\_Chain0\_2462MHz



OBW 6dB\_802.11g\_20MHz\_Chain0\_2462MHz

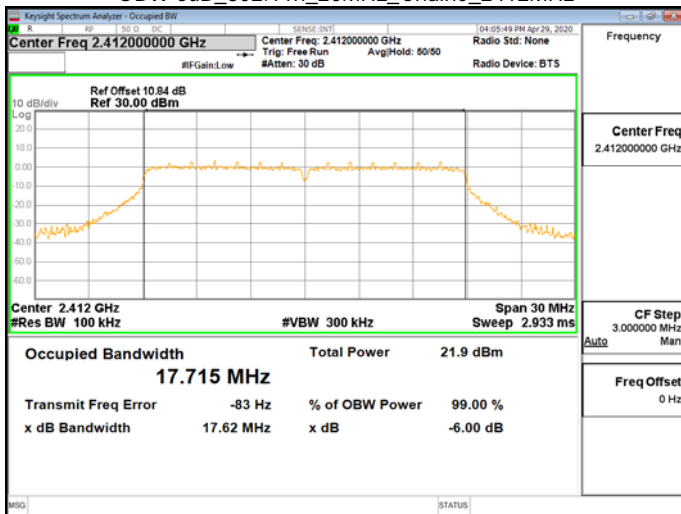


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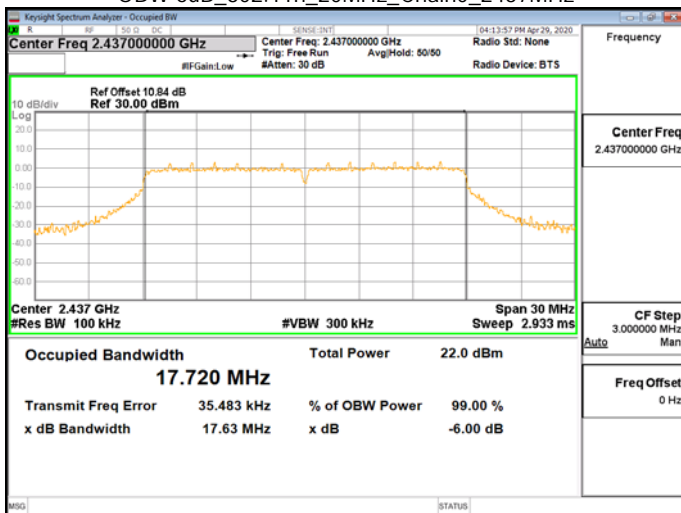
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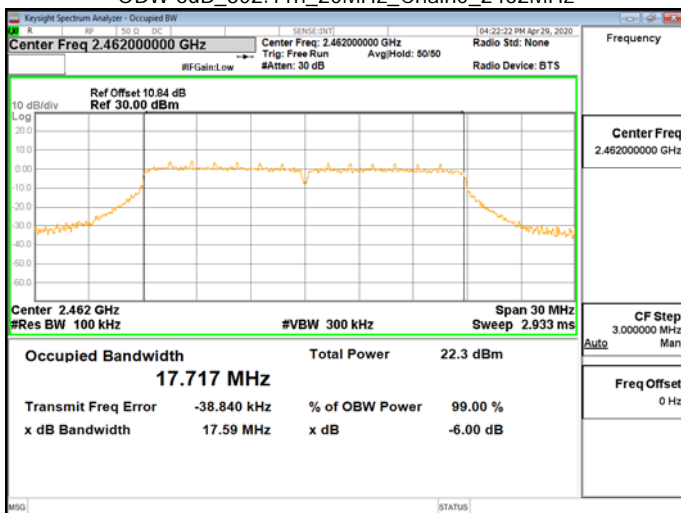
OBW 6dB\_802.11n\_20MHz\_Chain0\_2412MHz



OBW 6dB\_802.11n\_20MHz\_Chain0\_2437MHz



OBW 6dB\_802.11n\_20MHz\_Chain0\_2462MHz



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## 10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

### 10.1 Standard Applicable

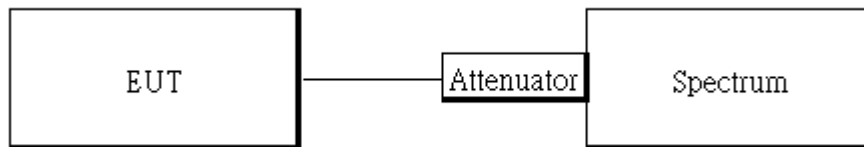
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

### 10.3 Test SET-UP



### 10.4 Measurement Procedure

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**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.

**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 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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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.

### 10.5 Measurement Result

Reference Level of Limit 802.11b mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	6.51	-13.49
2437	6.83	-13.17
2462	6.88	-13.12

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.44	-16.56
2437	3.78	-16.22
2462	4.29	-15.71

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.50	-16.50
2437	3.65	-16.35
2462	4.11	-15.89

#### Note

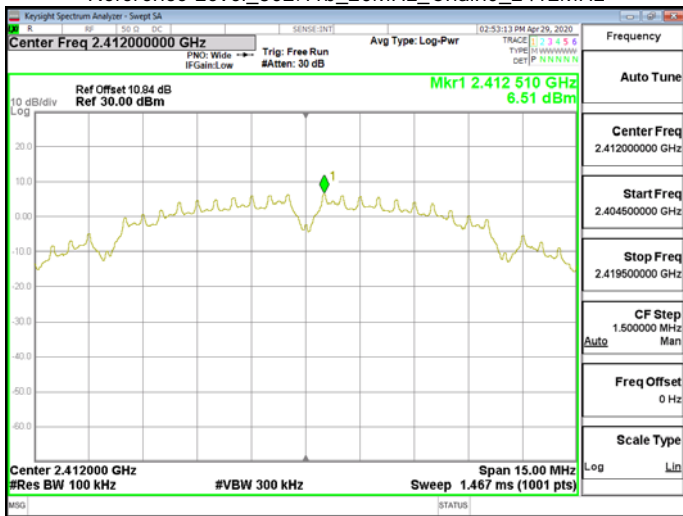
Cable Loss 10.84 dB

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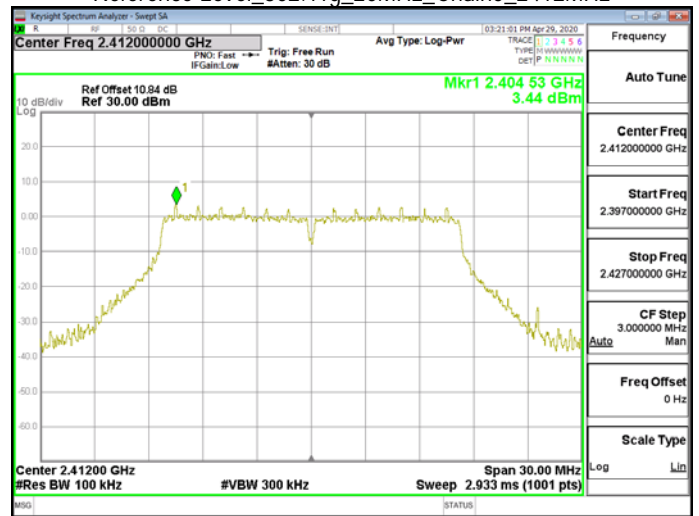
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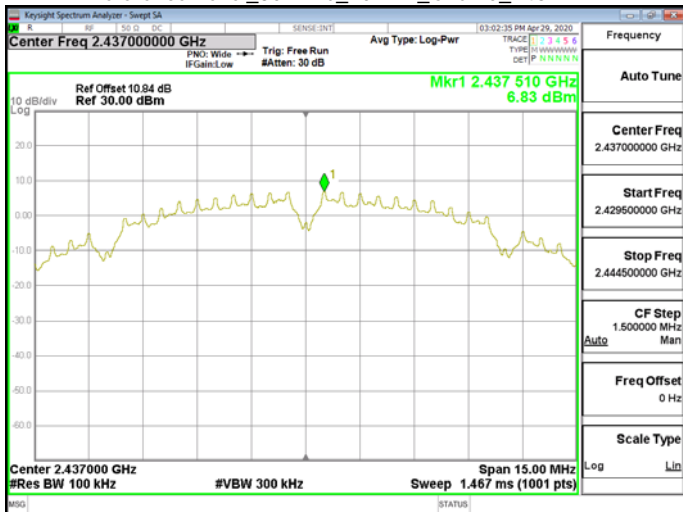
Reference Level\_802.11b\_20MHz\_Chain0\_2412MHz



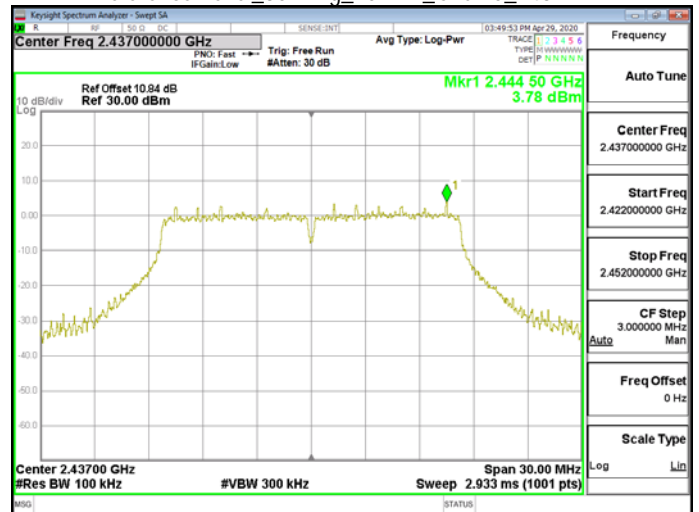
Reference Level\_802.11g\_20MHz\_Chain0\_2412MHz



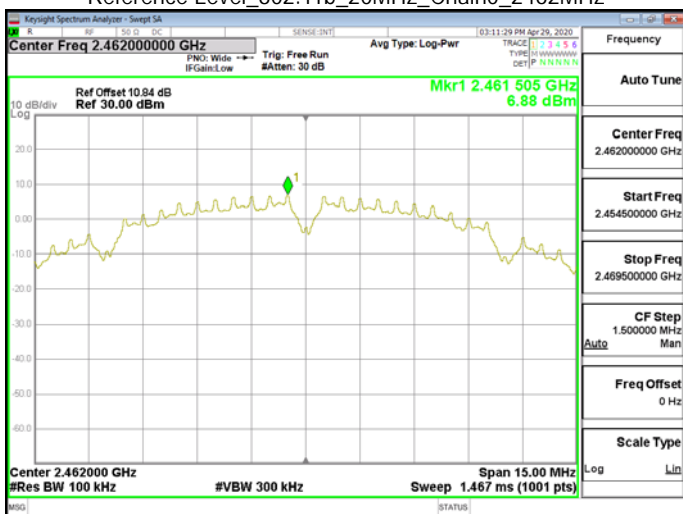
Reference Level\_802.11b\_20MHz\_Chain0\_2437MHz



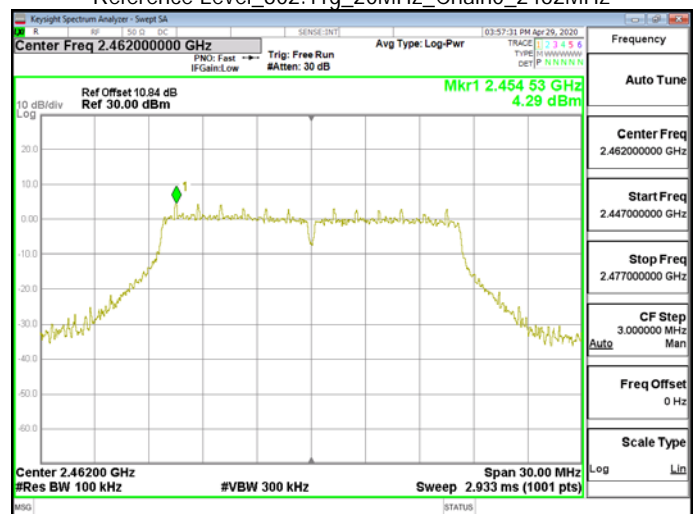
Reference Level\_802.11g\_20MHz\_Chain0\_2437MHz



Reference Level\_802.11b\_20MHz\_Chain0\_2462MHz



Reference Level\_802.11g\_20MHz\_Chain0\_2462MHz



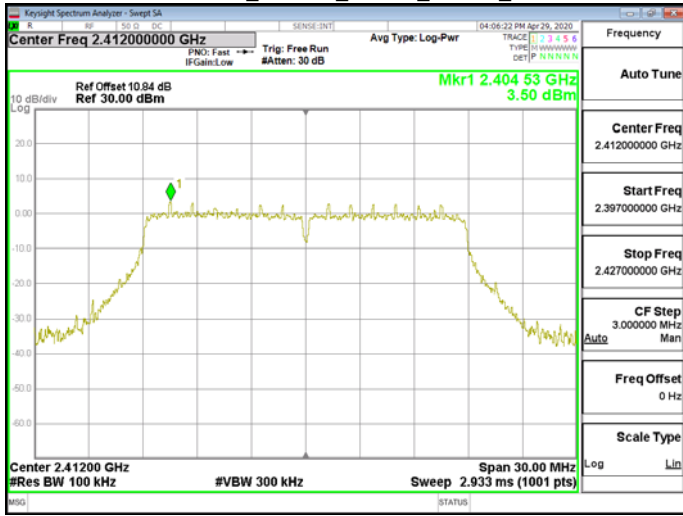
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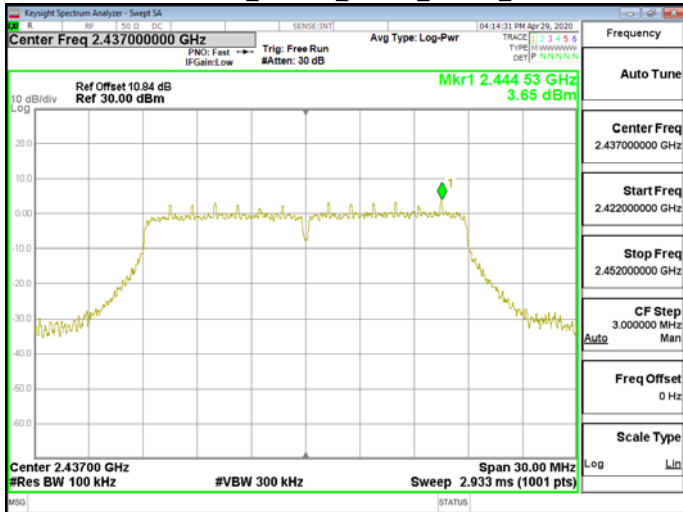
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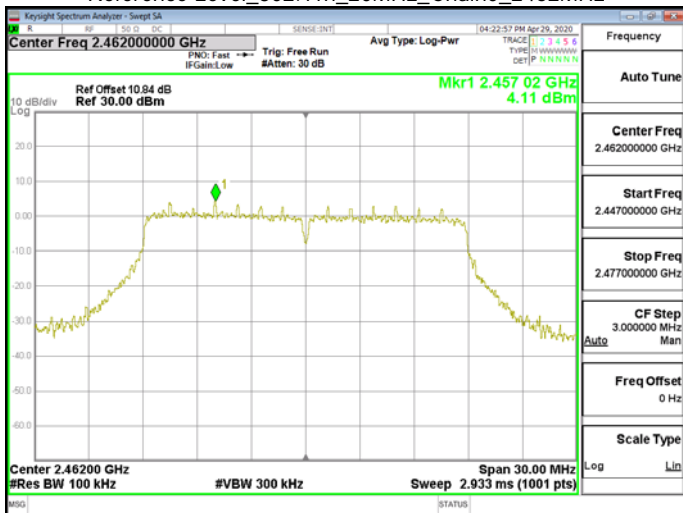
Reference Level\_802.11n\_20MHz\_Chain0\_2412MHz



Reference Level\_802.11n\_20MHz\_Chain0\_2437MHz



Reference Level\_802.11n\_20MHz\_Chain0\_2462MHz

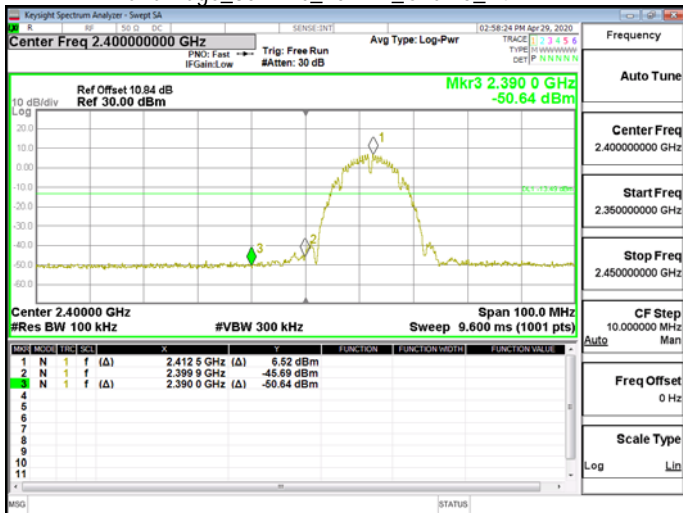


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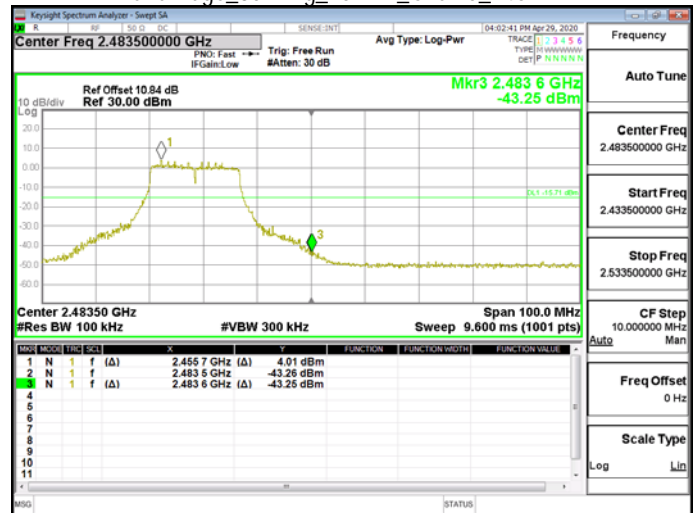
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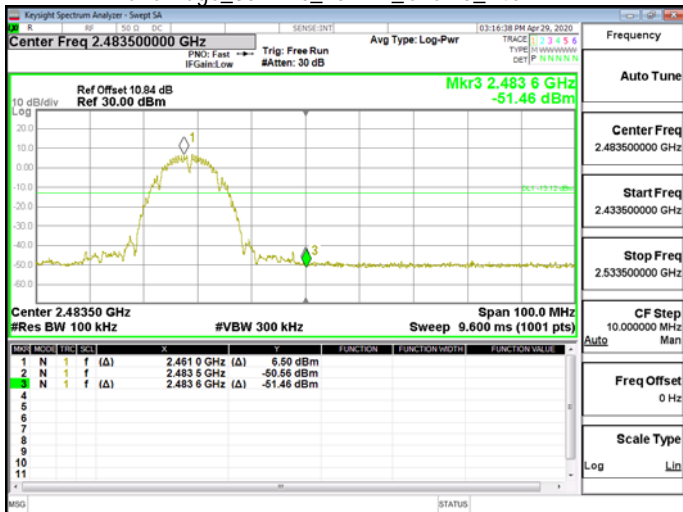
Band Edge\_802.11b\_20MHz\_Chain0\_2412MHz



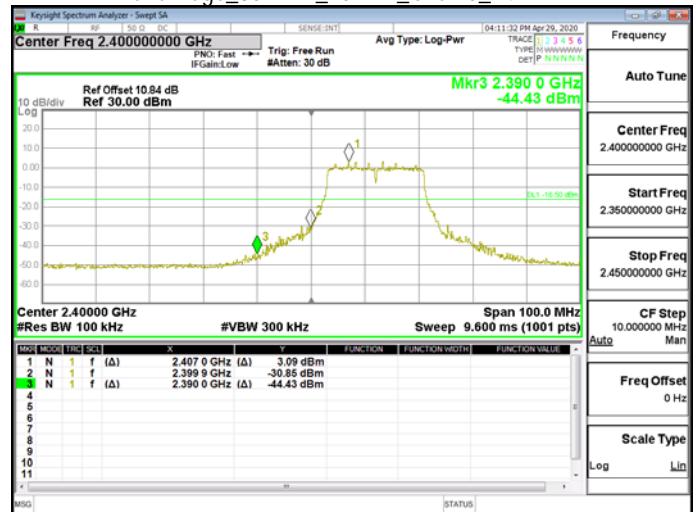
Band Edge\_802.11g\_20MHz\_Chain0\_2462MHz



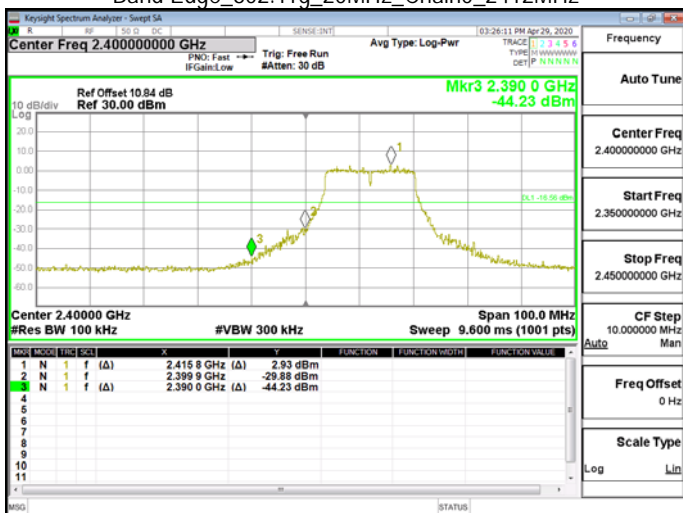
Band Edge\_802.11b\_20MHz\_Chain0\_2462MHz



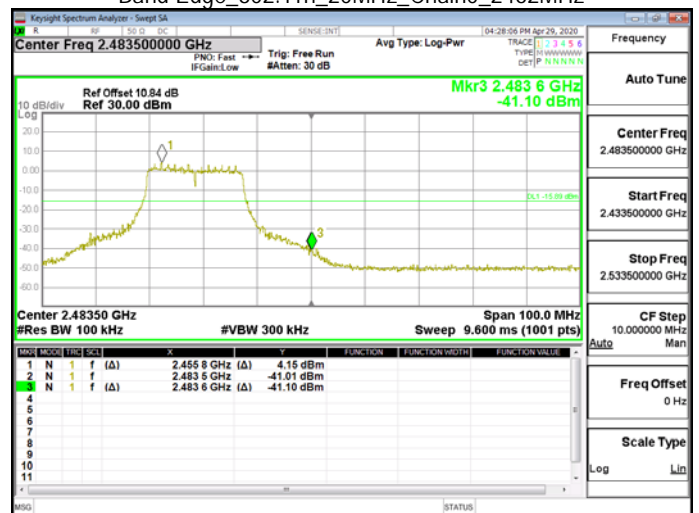
Band Edge\_802.11n\_20MHz\_Chain0\_2412MHz



Band Edge\_802.11g\_20MHz\_Chain0\_2412MHz



Band Edge\_802.11n\_20MHz\_Chain0\_2462MHz



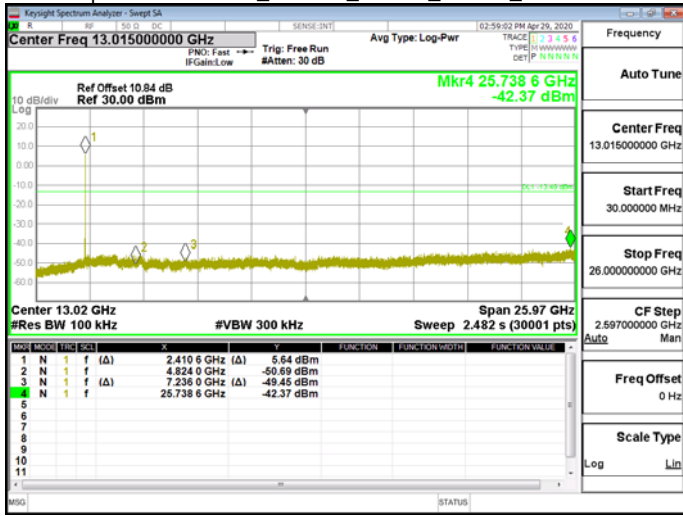
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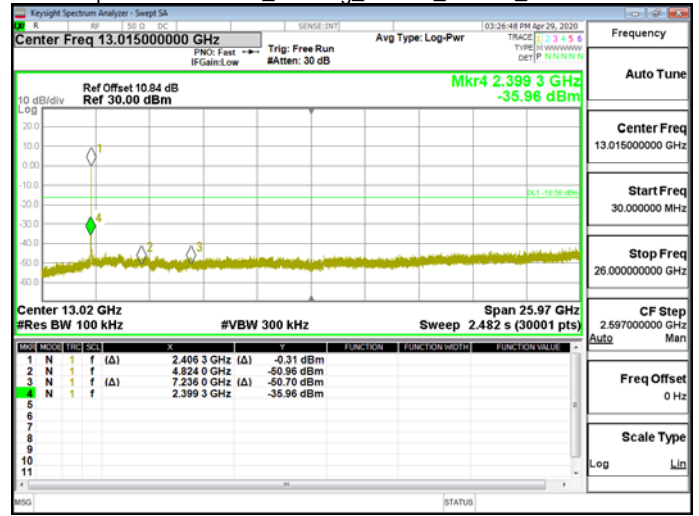
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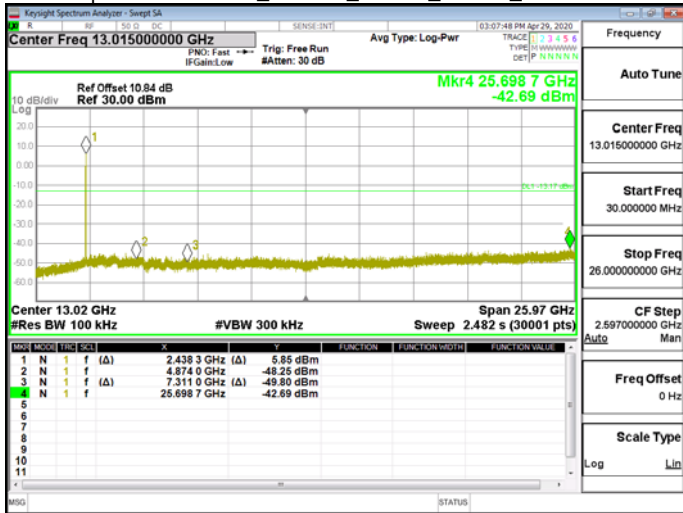
Spurious Emission\_802.11b\_20MHz\_Chain0\_2412MHz



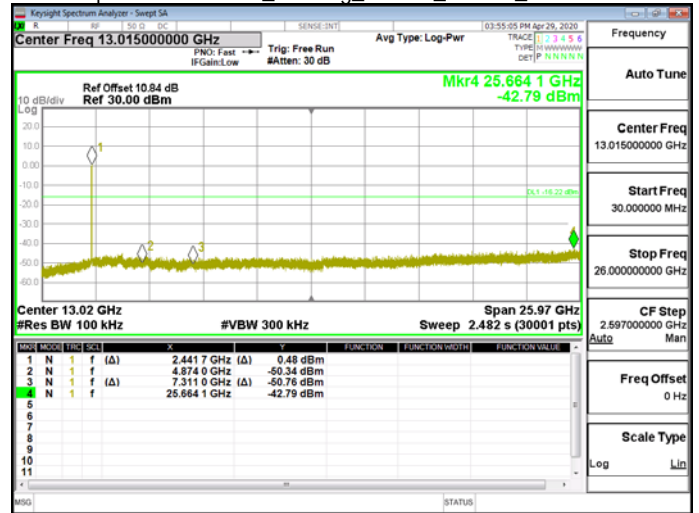
Spurious Emission\_802.11g\_20MHz\_Chain0\_2412MHz



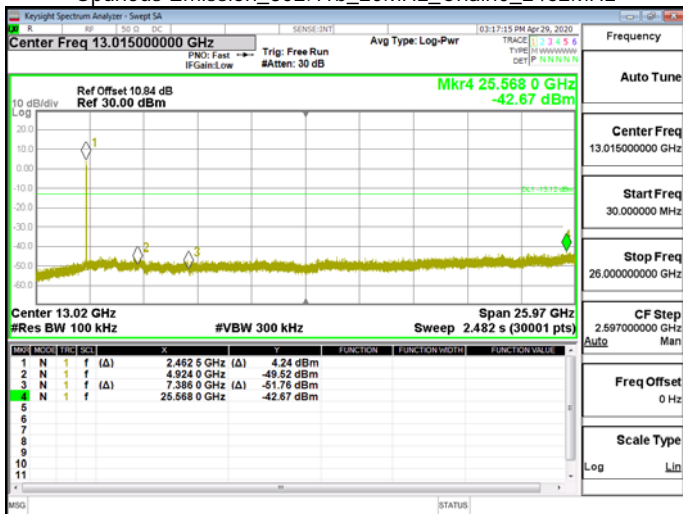
Spurious Emission\_802.11b\_20MHz\_Chain0\_2437MHz



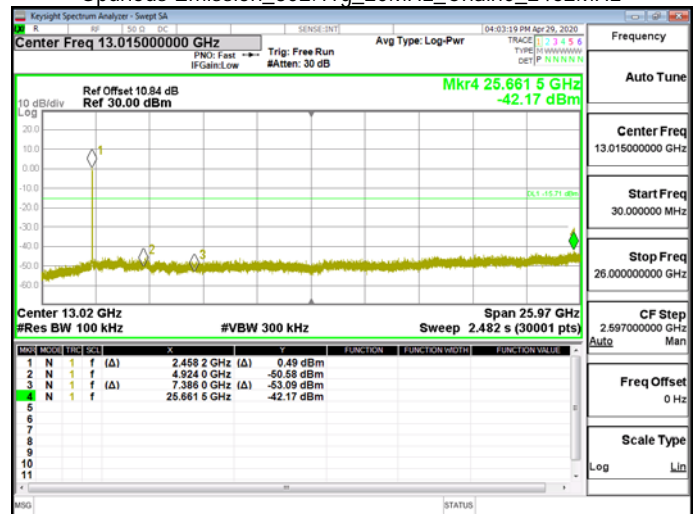
Spurious Emission\_802.11g\_20MHz\_Chain0\_2437MHz



Spurious Emission\_802.11b\_20MHz\_Chain0\_2462MHz



Spurious Emission\_802.11g\_20MHz\_Chain0\_2462MHz

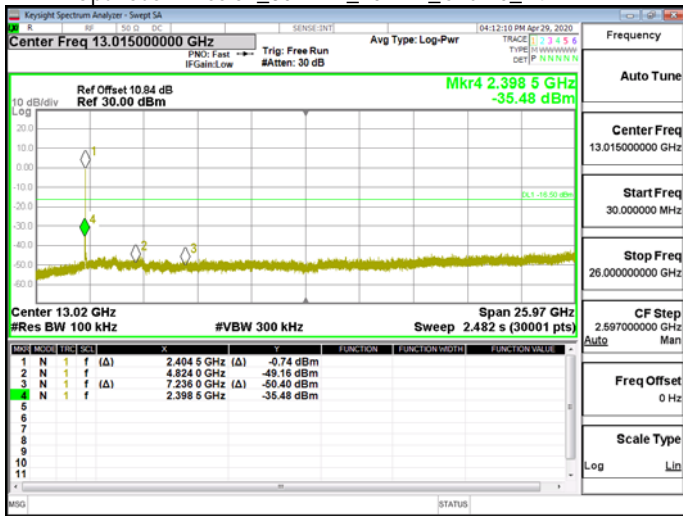


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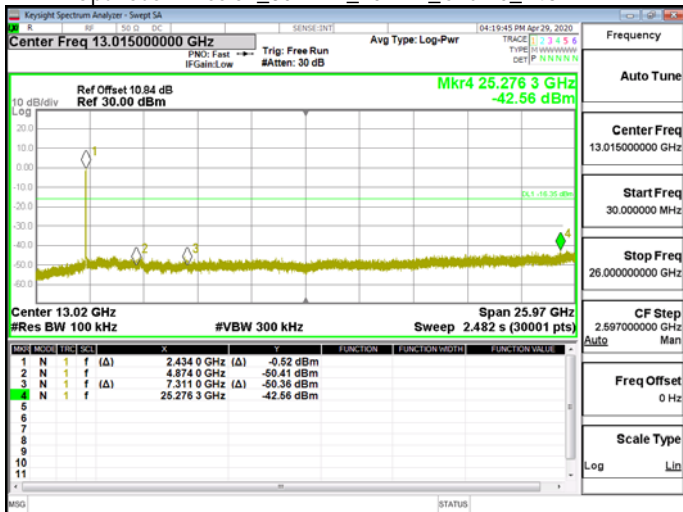
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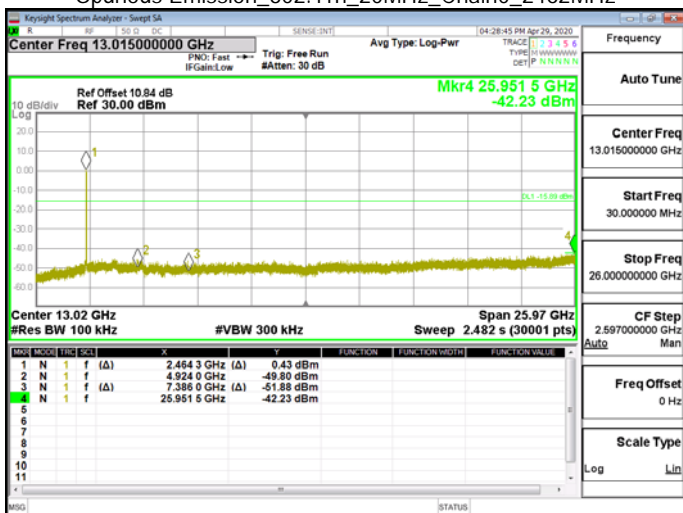
Spurious Emission\_802.11n\_20MHz\_Chain0\_2412MHz



Spurious Emission\_802.11n\_20MHz\_Chain0\_2437MHz



Spurious Emission\_802.11n\_20MHz\_Chain0\_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.
Horn Antenna	Schwarzbeck	BBHA9170	184	Dec. 25th, 2019	Dec. 24th, 2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	Dec. 20th, 2019	Dec. 19th, 2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	Jan. 13th, 2020	Jan. 12th, 2021
Loop Antenna	ETS.LINDGREN	6502	148045	Oct. 15th, 2019	Oct. 14th, 2020
Spectrum Analyzer	Agilent	E4446A	MY51100003	Oct. 23th, 2019	Oct. 22nd, 2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	Jul. 4th, 2019	Jul. 3rd, 2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	HP	8447D	2944A09469	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	4	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	Jan. 2nd, 2020	Jan. 1st, 2021
High Pass Filter	WI	WHKX4.0/18G-10S S	22	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	Jan. 2nd, 2020	Jan. 1st, 2021

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

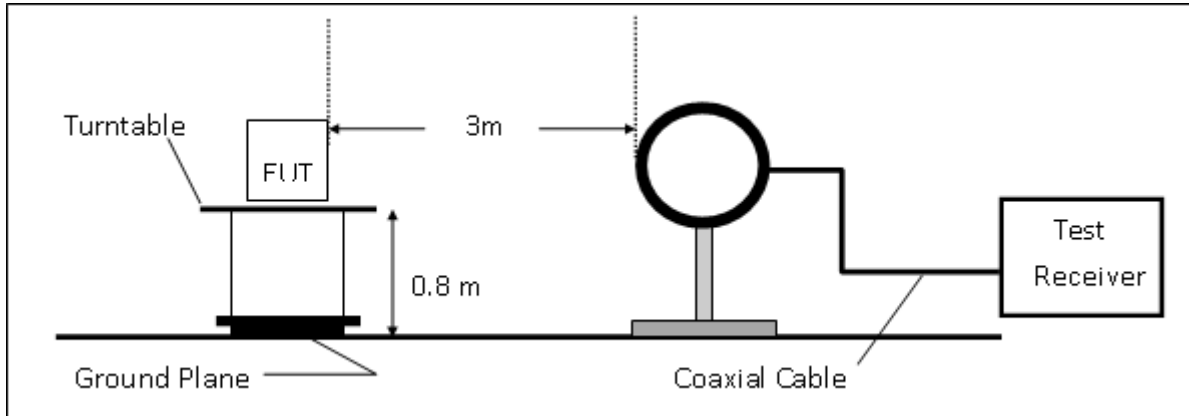
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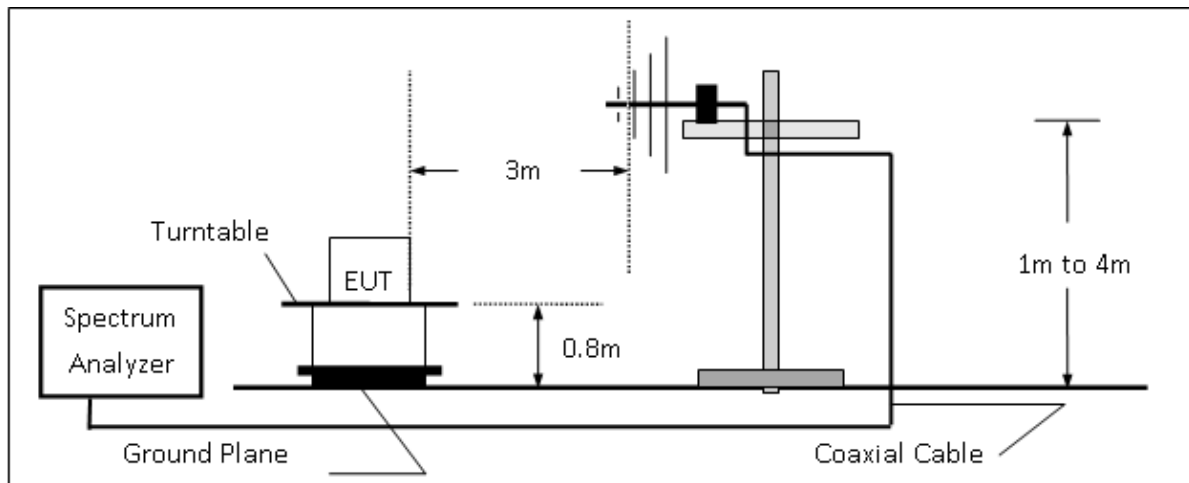
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### 11.3 Test SET-UP

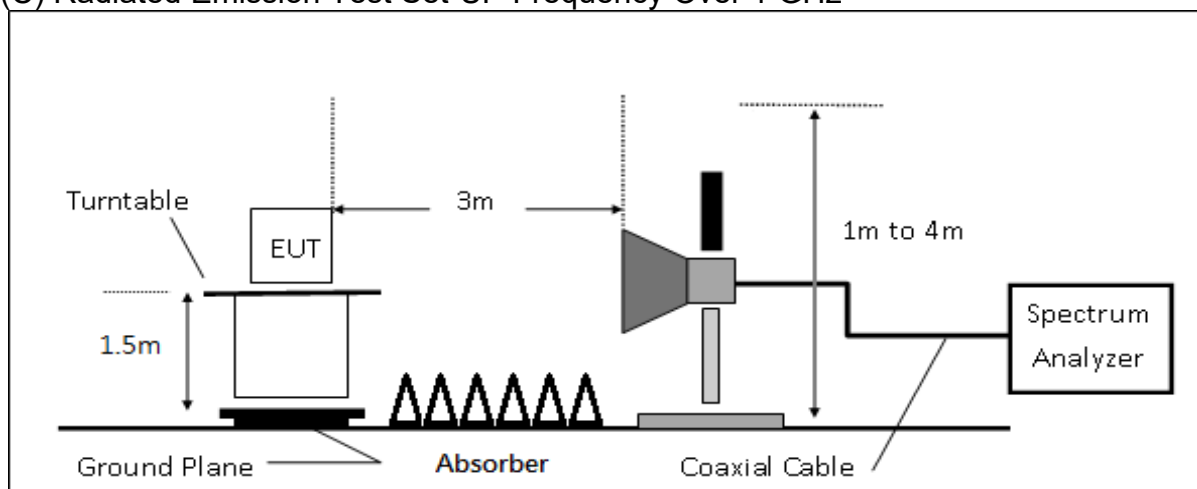
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

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

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

## 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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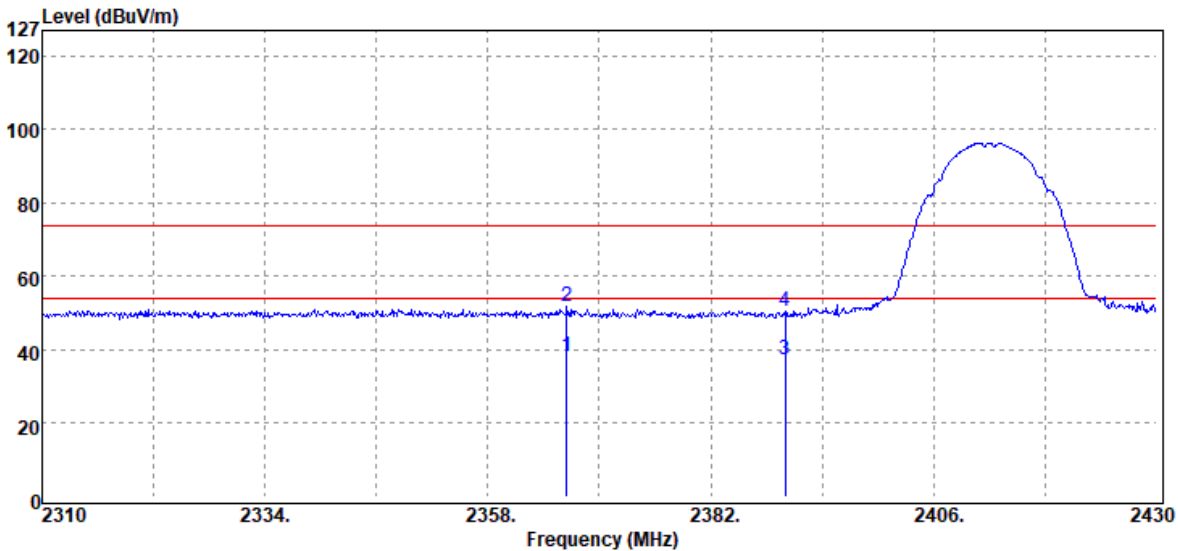
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### 11.7.1 Radiated Band Edge Measurement Result

Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2366.52	Average	30.67	7.53	38.20	54.00	-15.80
2366.52	Peak	44.11	7.53	51.64	74.00	-22.36
2390.00	Average	30.05	7.46	37.51	54.00	-16.49
2390.00	Peak	42.87	7.46	50.33	74.00	-23.67

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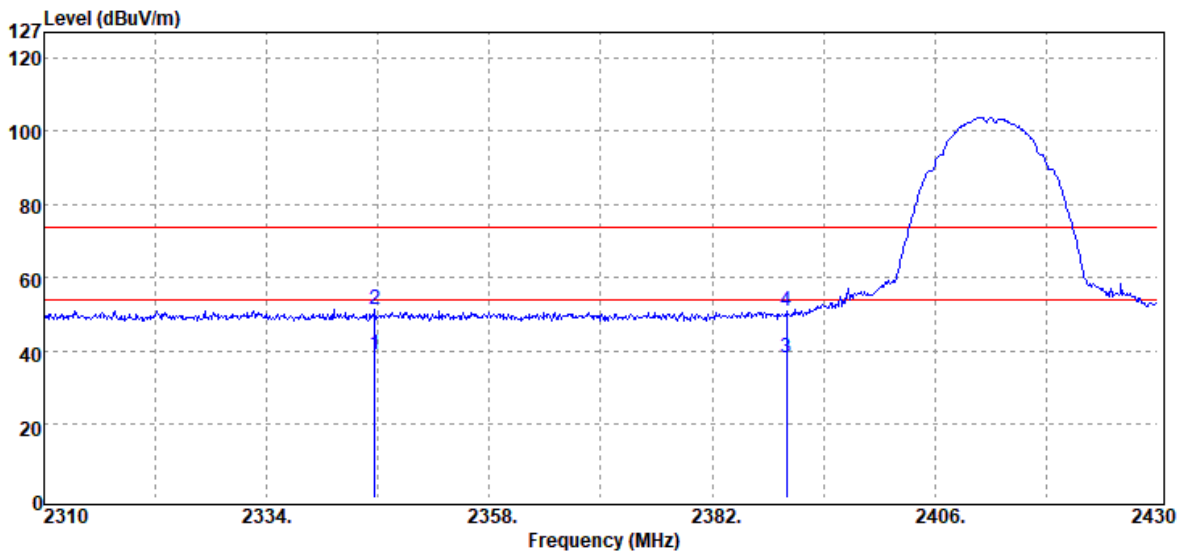
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Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2345.64	Average	31.32	7.59	38.91	54.00	-15.09
2345.64	Peak	43.71	7.59	51.30	74.00	-22.70
2390.00	Average	30.95	7.46	38.41	54.00	-15.59
2390.00	Peak	43.39	7.46	50.85	74.00	-23.15

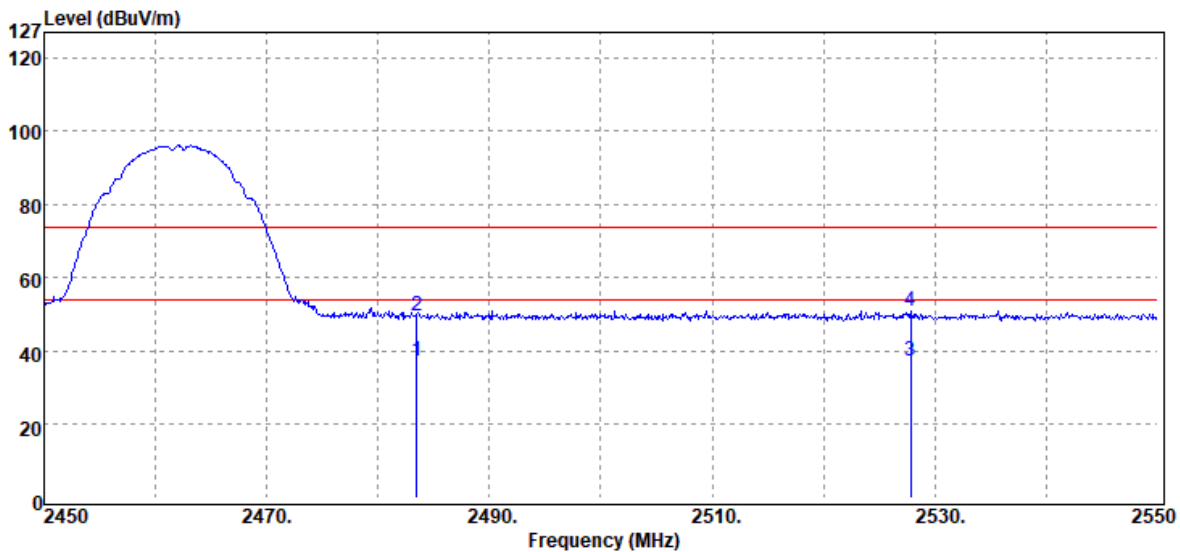
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Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	29.87	7.46	37.33	54.00	-16.67
2483.50	Peak	42.13	7.46	49.59	74.00	-24.41
2527.80	Average	29.99	7.55	37.54	54.00	-16.46
2527.80	Peak	43.64	7.55	51.19	74.00	-22.81

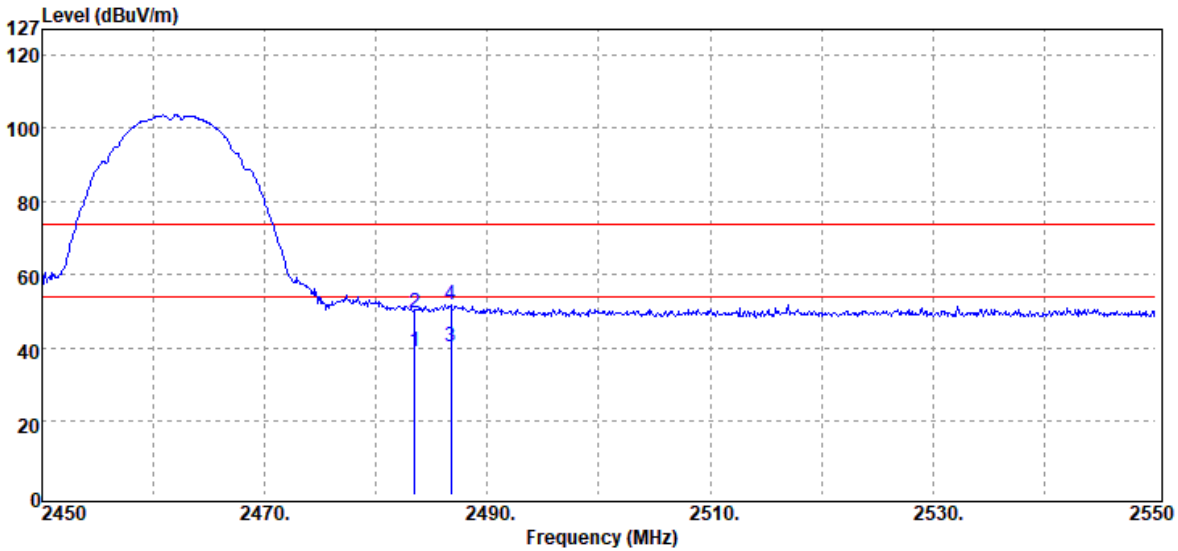
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 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	31.46	7.46	38.92	54.00	-15.08
2483.50	Peak	42.35	7.46	49.81	74.00	-24.19
2486.70	Average	32.90	7.46	40.36	54.00	-13.64
2486.70	Peak	44.45	7.46	51.91	74.00	-22.09

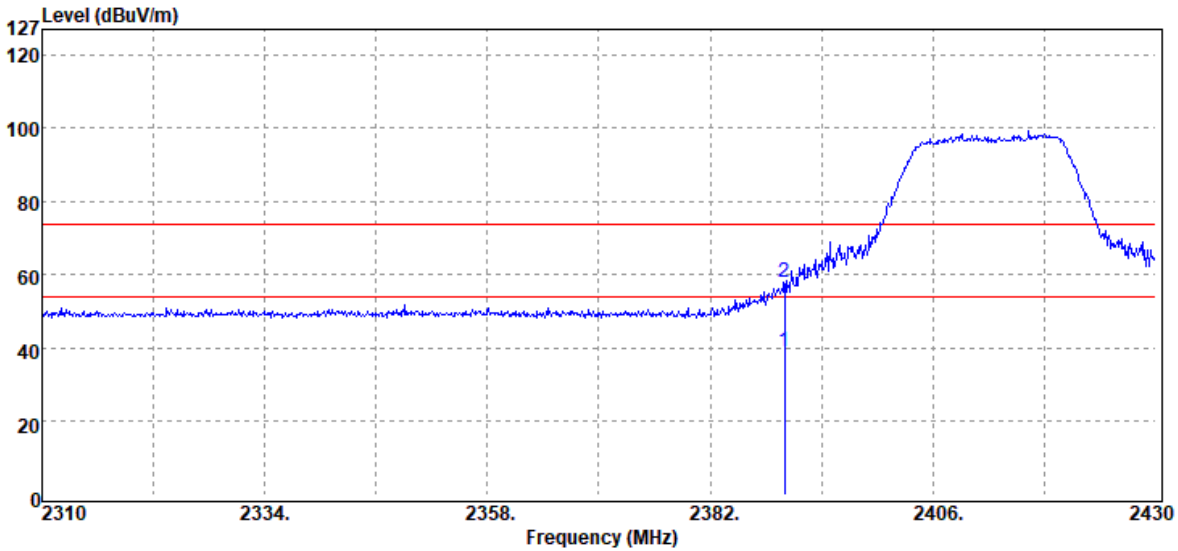
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Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	31.76	7.46	39.22	54.00	-14.78
2390.00	Peak	50.55	7.46	58.01	74.00	-15.99

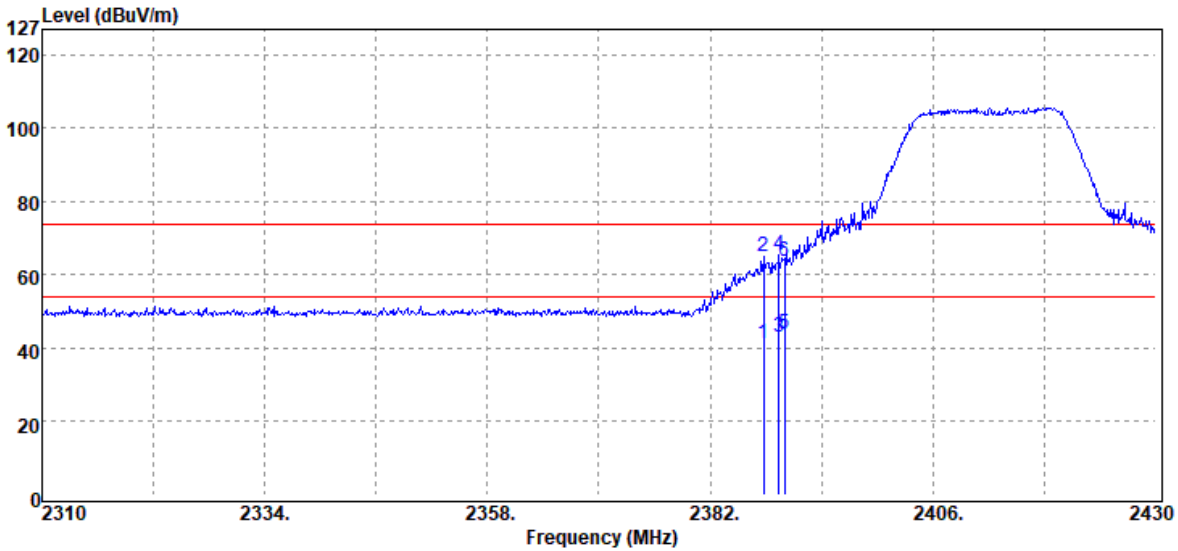
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Test Date :2020-04-23  
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 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.76	Average	34.06	7.46	41.52	54.00	-12.48
2387.76	Peak	57.36	7.46	64.82	74.00	-9.18
2389.44	Average	35.52	7.46	42.98	54.00	-11.02
2389.44	Peak	58.13	7.46	65.59	74.00	-8.41
2390.00	Average	36.38	7.46	43.84	54.00	-10.16
2390.00	Peak	56.24	7.46	63.70	74.00	-10.30

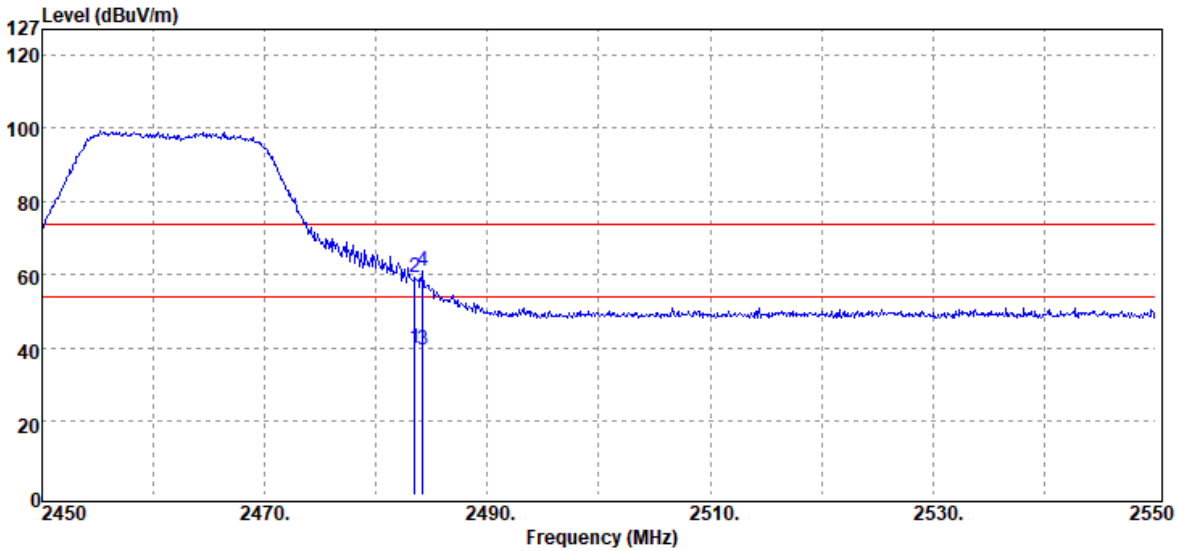
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 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	32.36	7.46	39.82	54.00	-14.18
2483.50	Peak	51.97	7.46	59.43	74.00	-14.57
2484.20	Average	32.19	7.46	39.65	54.00	-14.35
2484.20	Peak	53.47	7.46	60.93	74.00	-13.07

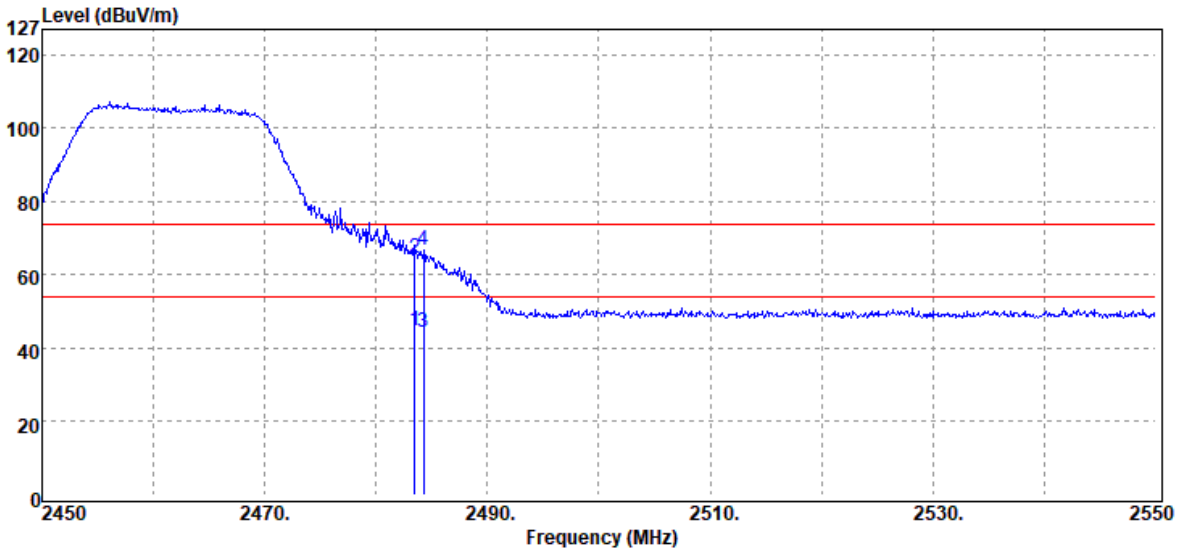
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Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	37.50	7.46	44.96	54.00	-9.04
2483.50	Peak	57.23	7.46	64.69	74.00	-9.31
2484.27	Average	37.13	7.46	44.59	54.00	-9.41
2484.27	Peak	59.43	7.46	66.89	74.00	-7.11

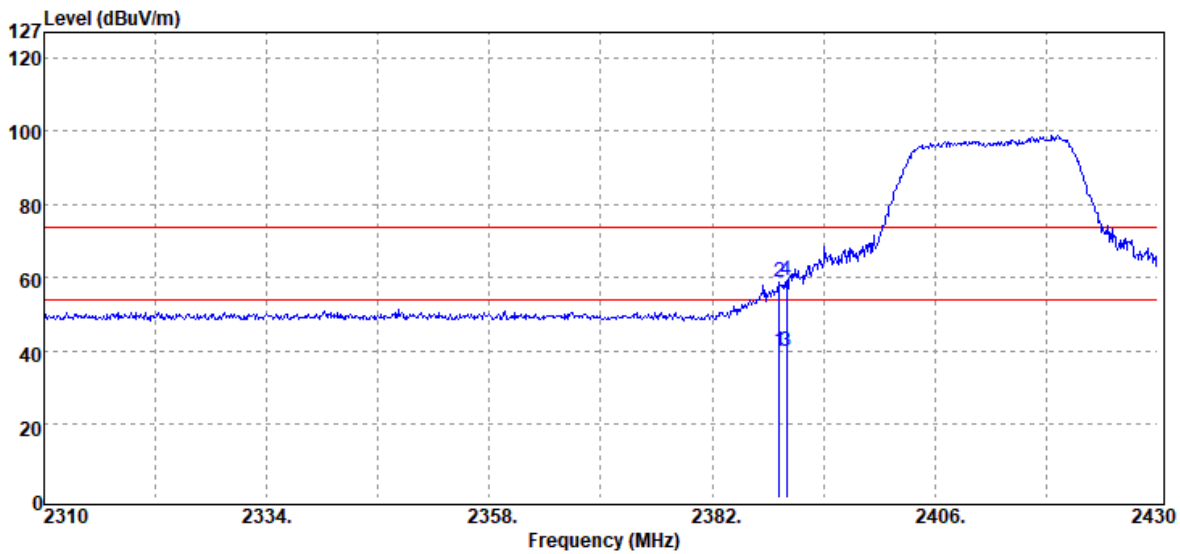
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Report Number :ER/2020/40013  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.20	Average	32.38	7.45	39.83	54.00	-14.17
2389.20	Peak	51.41	7.45	58.86	74.00	-15.14
2390.00	Average	32.58	7.46	40.04	54.00	-13.96
2390.00	Peak	51.69	7.46	59.15	74.00	-14.85

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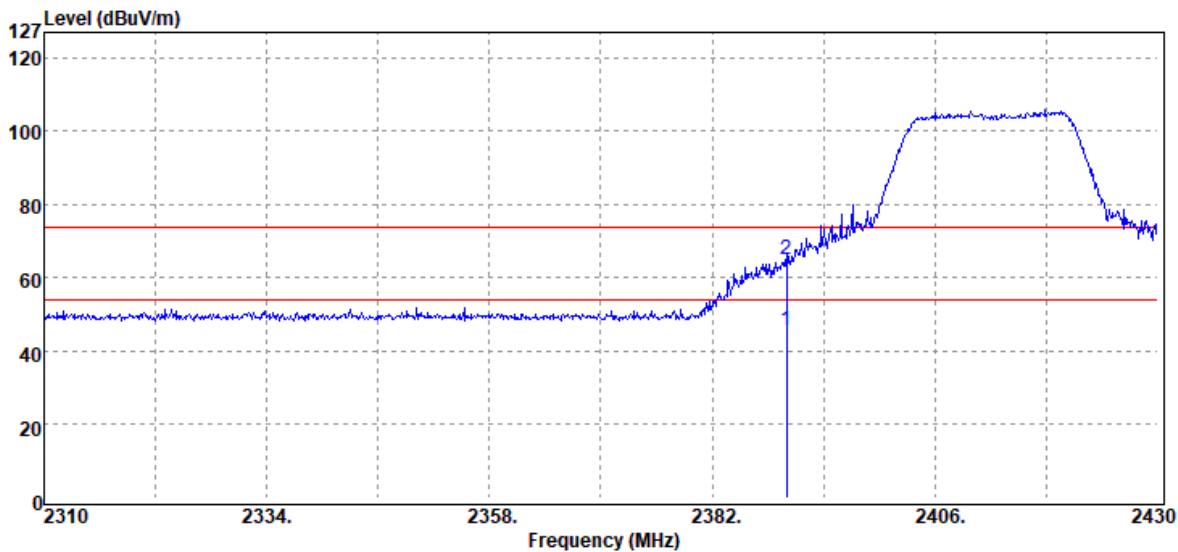
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Report Number :ER/2020/40013  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	38.26	7.46	45.72	54.00	-8.28
2390.00	Peak	57.52	7.46	64.98	74.00	-9.02

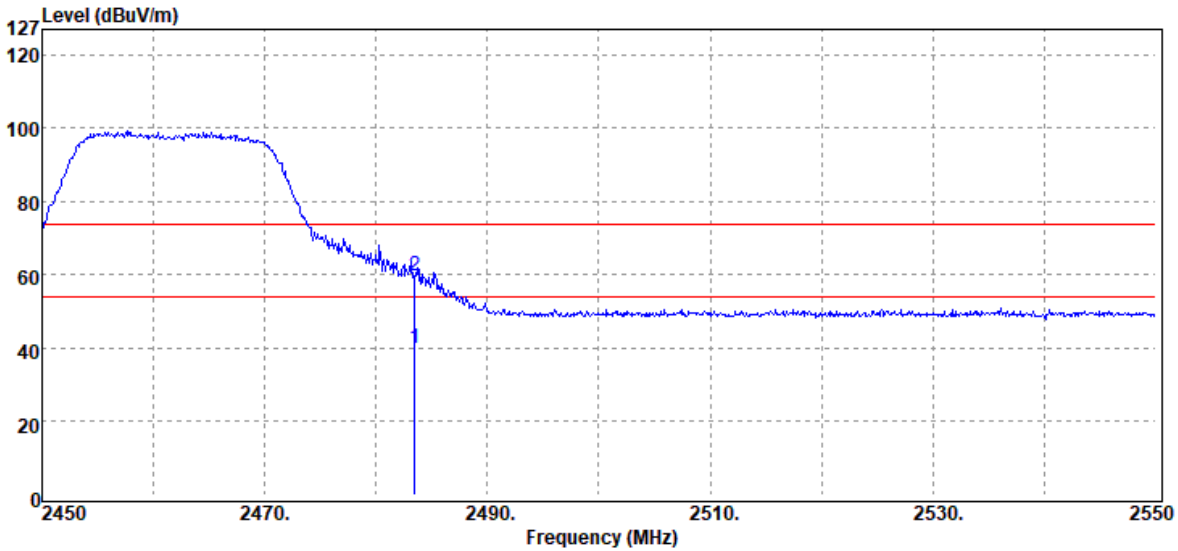
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Report Number :ER/2020/40013  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	32.69	7.46	40.15	54.00	-13.85
2483.50	Peak	52.31	7.46	59.77	74.00	-14.23

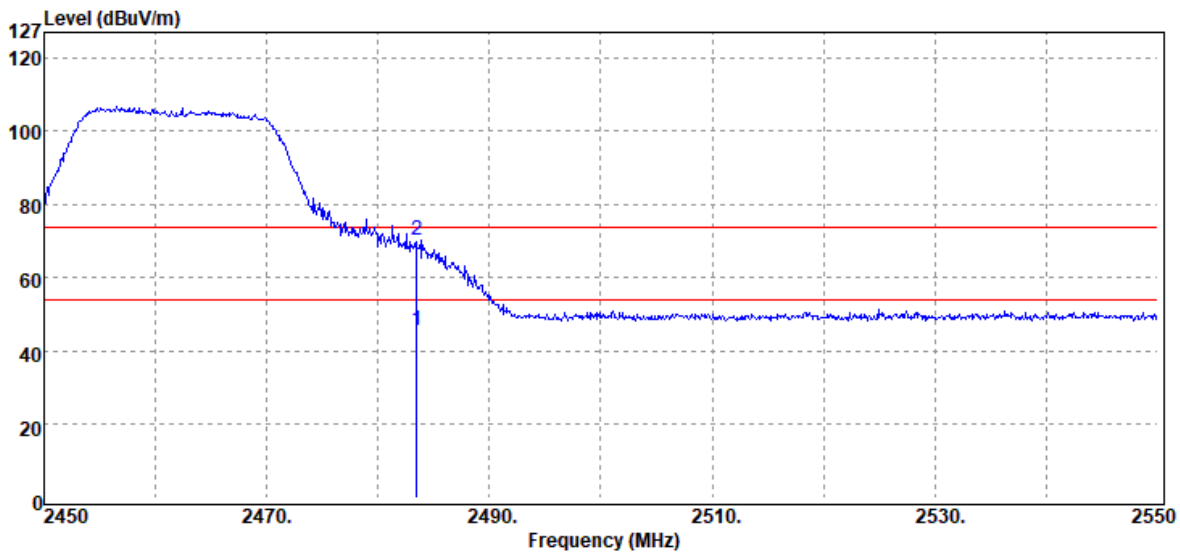
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Report Number :ER/2020/40013  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.30	7.46	45.76	54.00	-8.24
2483.50	Peak	63.02	7.46	70.48	74.00	-3.52

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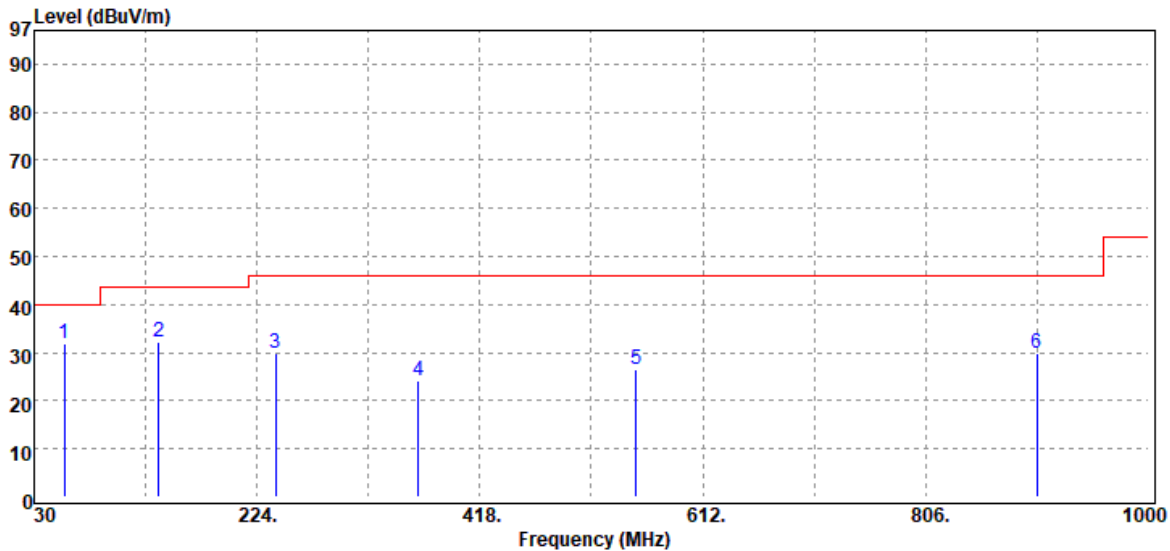
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11.7.2 Below 1GHz Worst-Case Emission:

Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-27  
 Temp./Humi. :22.4/70  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
56.19	Peak	48.26	-16.52	31.74	40.00	-8.26
138.64	Peak	43.91	-11.58	32.33	43.50	-11.17
240.49	Peak	39.87	-10.12	29.75	46.00	-16.25
364.65	Peak	31.11	-6.80	24.31	46.00	-21.69
553.80	Peak	30.59	-4.19	26.40	46.00	-19.60
903.00	Peak	28.95	1.02	29.97	46.00	-16.03

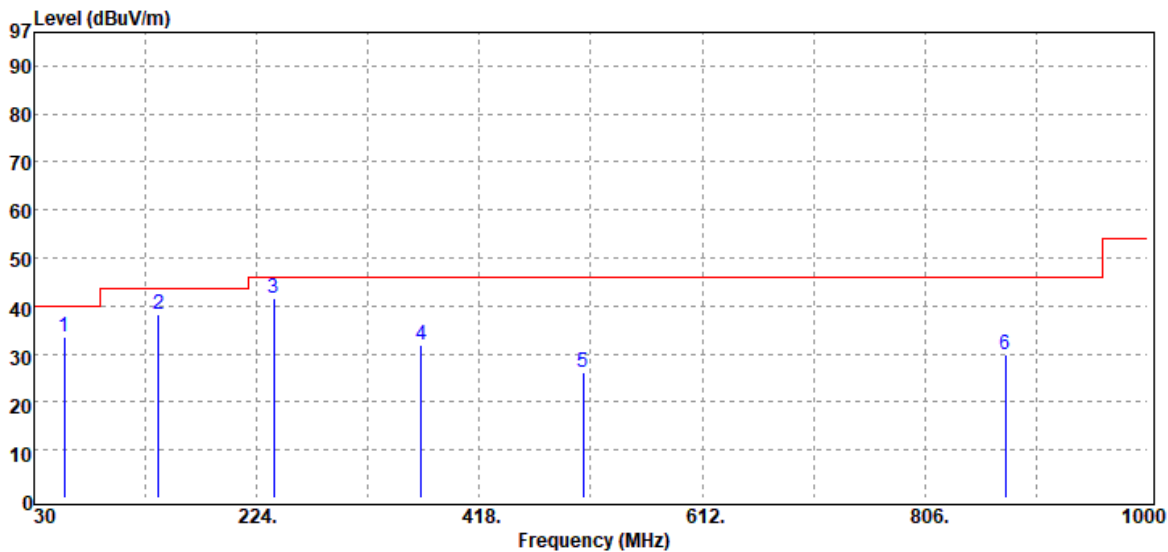
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Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-27  
 Temp./Humi. :22.4/70  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
56.19	Peak	50.12	-16.52	33.60	40.00	-6.40
138.64	Peak	49.75	-11.58	38.17	43.50	-5.33
238.55	Peak	52.00	-10.28	41.72	46.00	-4.28
367.56	Peak	38.79	-6.85	31.94	46.00	-14.06
508.21	Peak	30.85	-4.72	26.13	46.00	-19.87
875.84	Peak	29.52	0.49	30.01	46.00	-15.99

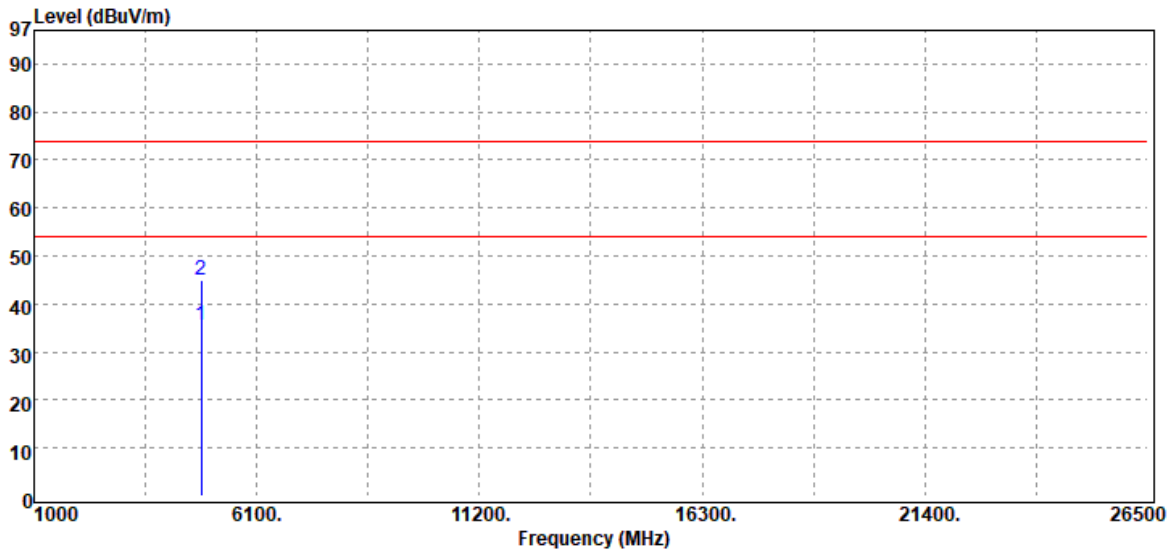
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11.7.3 Above 1GHz Emission:

Report Number	:ER/2020/40013	Test Date	:2020-04-23
Operation Mode	:802.11b	Temp./Humi.	:22.5/67
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:E2 Plane		



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	21.15	14.56	35.71	54.00	-18.29
4824.00	Peak	30.28	14.56	44.84	74.00	-29.16

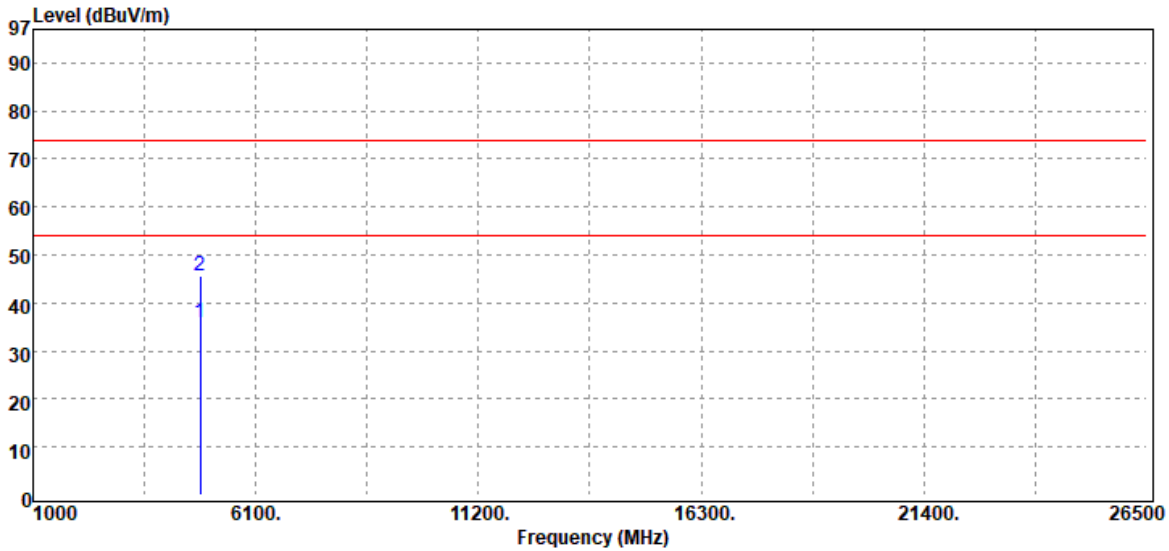
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Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	21.33	14.56	35.89	54.00	-18.11
4824.00	Peak	31.04	14.56	45.60	74.00	-28.40

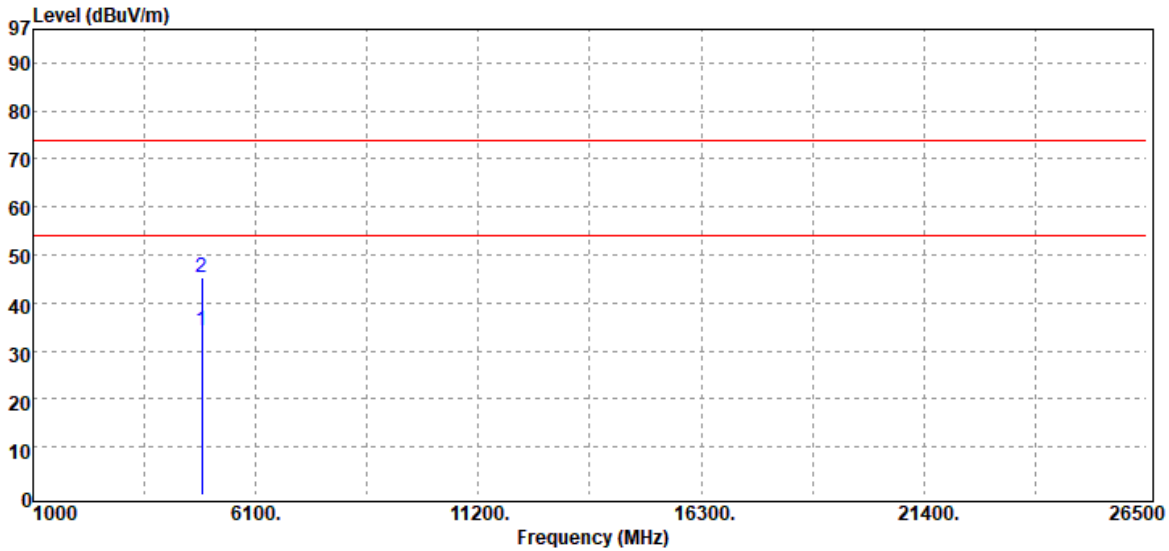
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Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	19.37	14.85	34.22	54.00	-19.78
4874.00	Peak	30.41	14.85	45.26	74.00	-28.74

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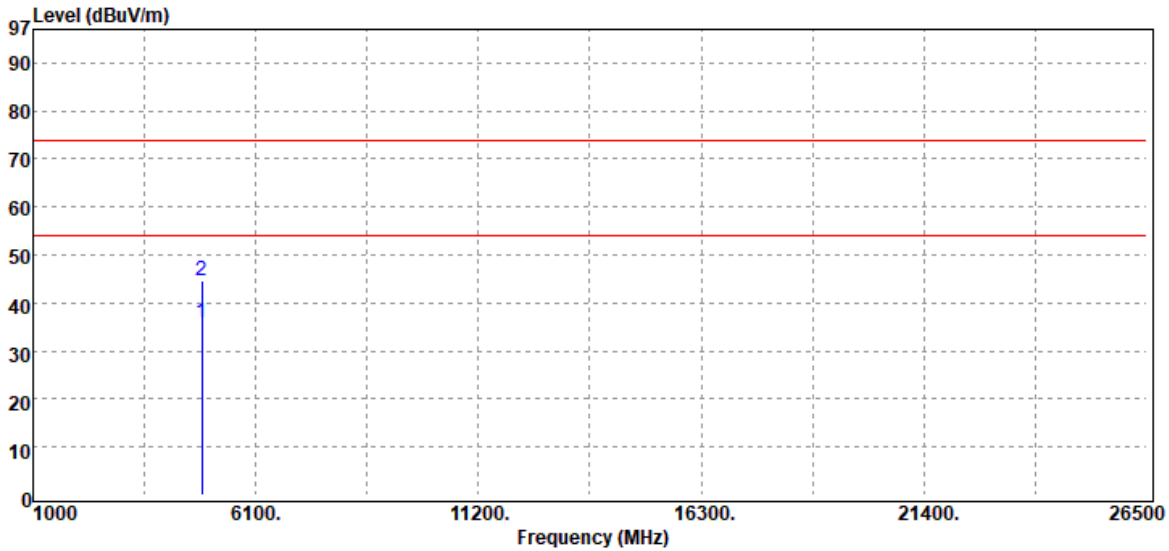
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Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	20.96	14.85	35.81	54.00	-18.19
4874.00	Peak	29.64	14.85	44.49	74.00	-29.51

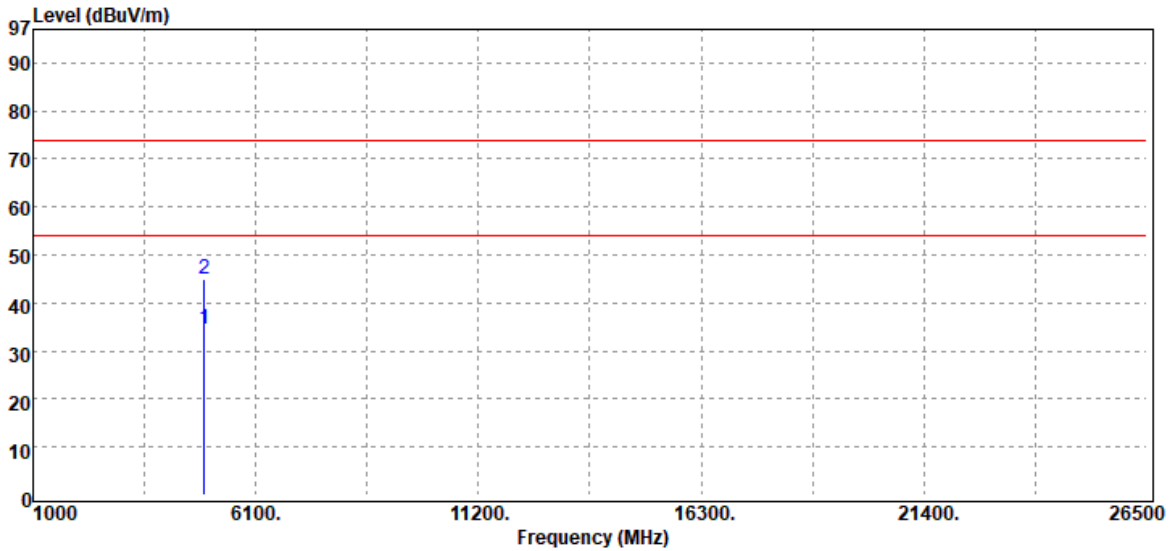
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Report Number :ER/2020/40013  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	19.58	14.87	34.45	54.00	-19.55
4924.00	Peak	30.08	14.87	44.95	74.00	-29.05

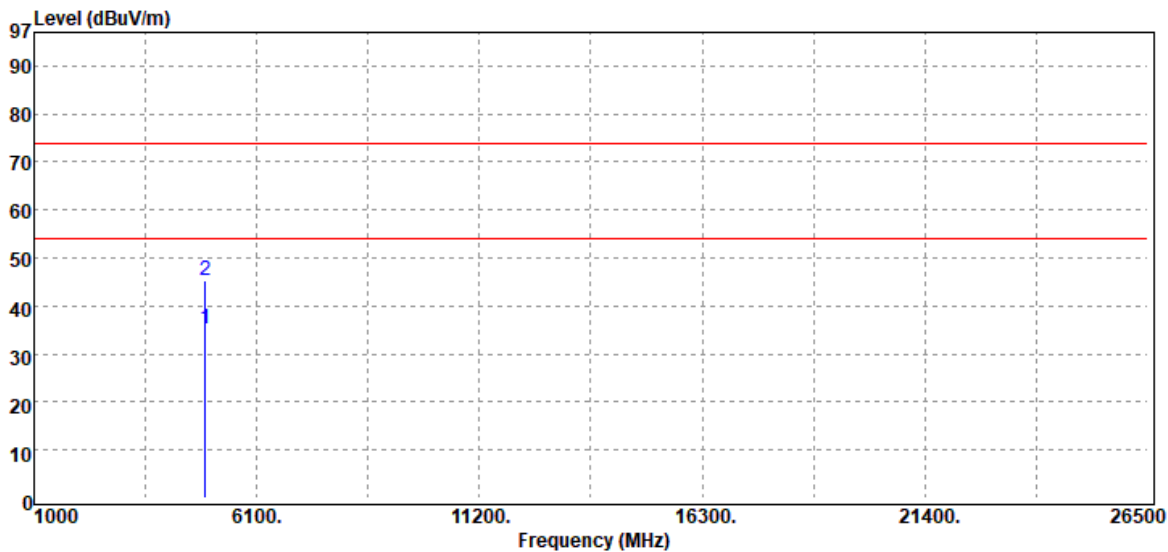
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 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	20.36	14.87	35.23	54.00	-18.77
4924.00	Peak	30.33	14.87	45.20	74.00	-28.80

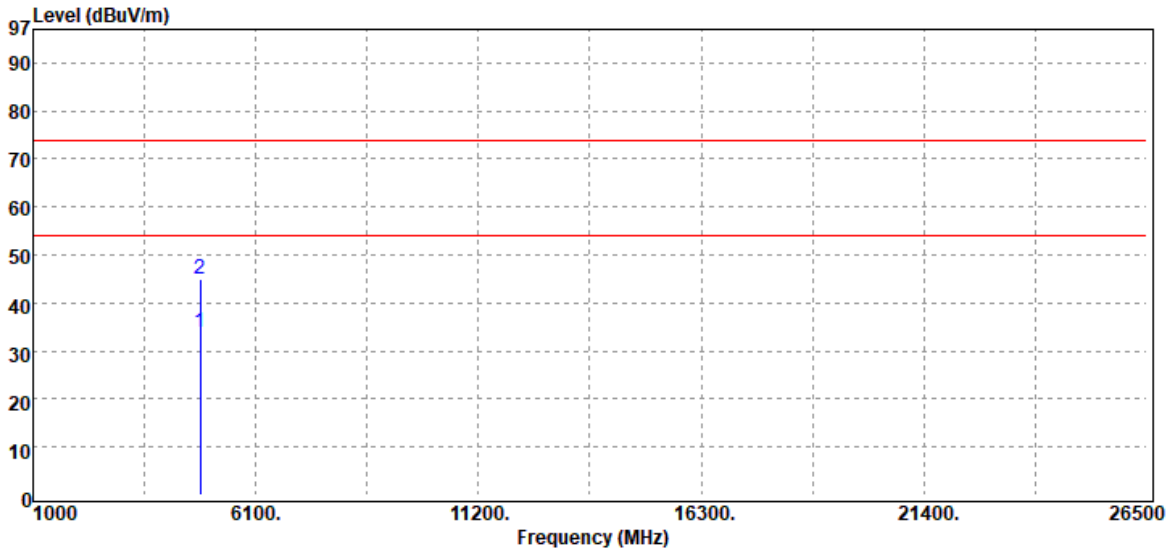
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Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	19.35	14.56	33.91	54.00	-20.09
4824.00	Peak	30.28	14.56	44.84	74.00	-29.16

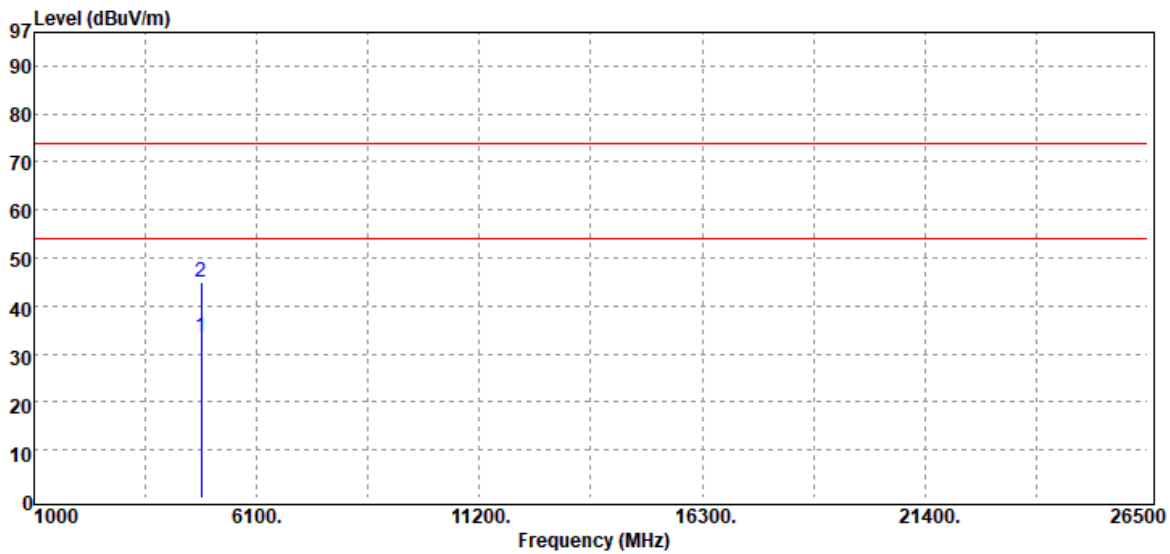
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Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	19.12	14.56	33.68	54.00	-20.32
4824.00	Peak	30.28	14.56	44.84	74.00	-29.16

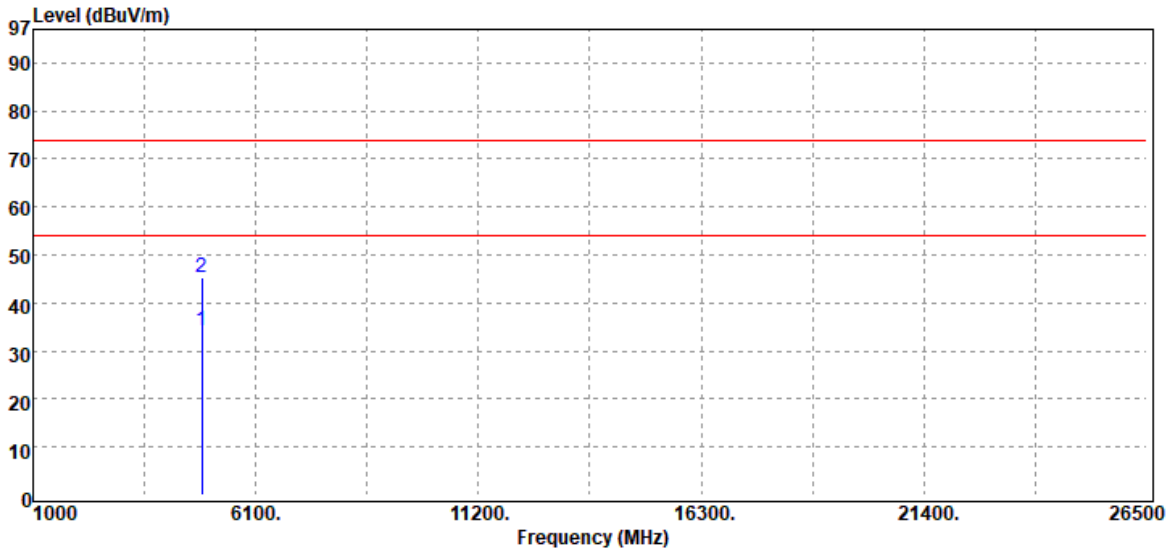
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Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	19.49	14.85	34.34	54.00	-19.66
4874.00	Peak	30.40	14.85	45.25	74.00	-28.75

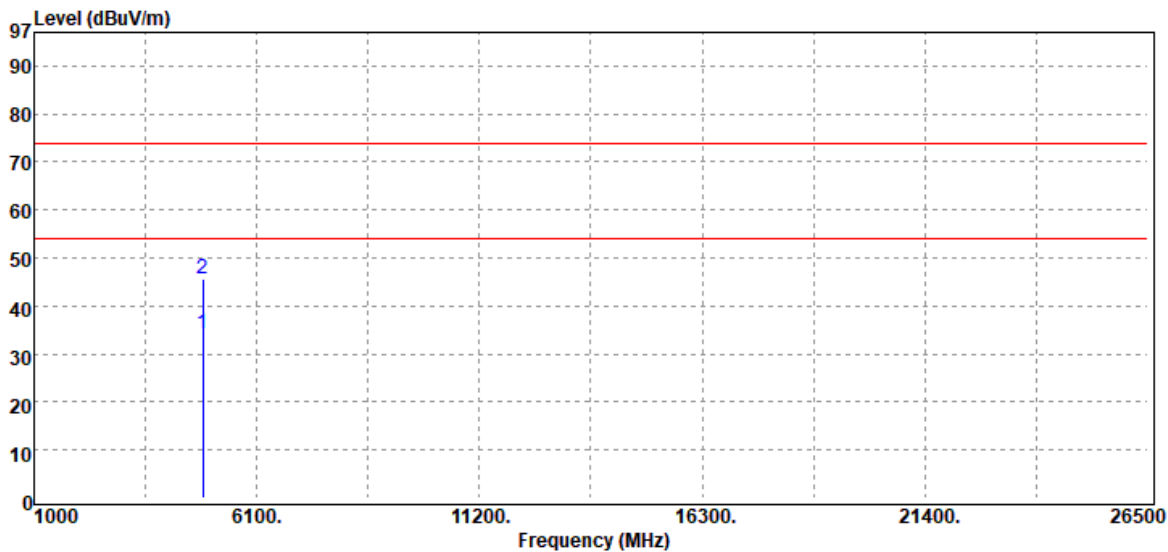
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 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	19.30	14.85	34.15	54.00	-19.85
4874.00	Peak	30.67	14.85	45.52	74.00	-28.48

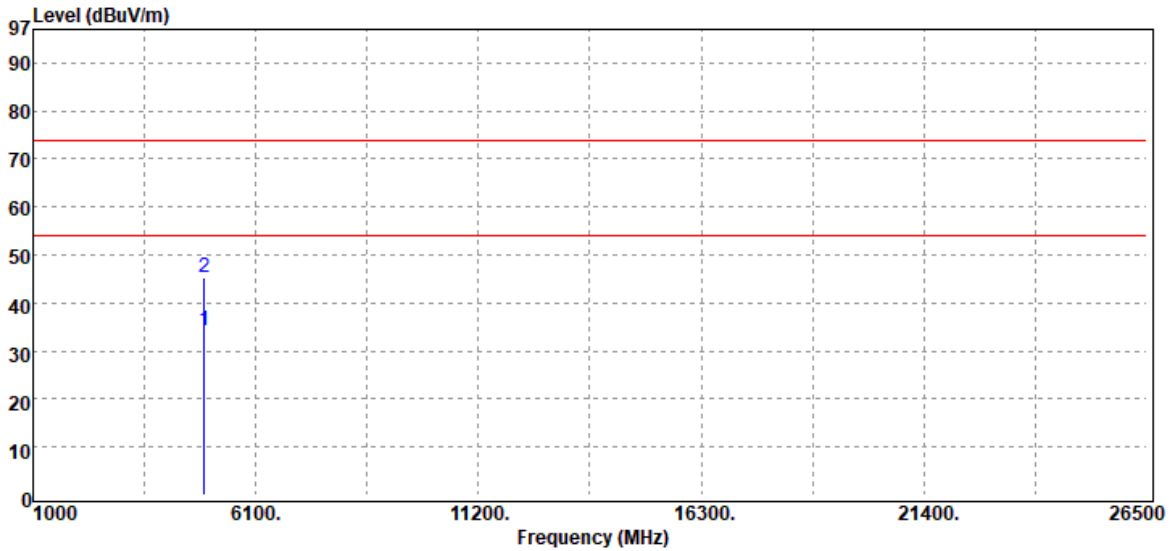
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Report Number :ER/2020/40013  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	19.36	14.87	34.23	54.00	-19.77
4924.00	Peak	30.42	14.87	45.29	74.00	-28.71

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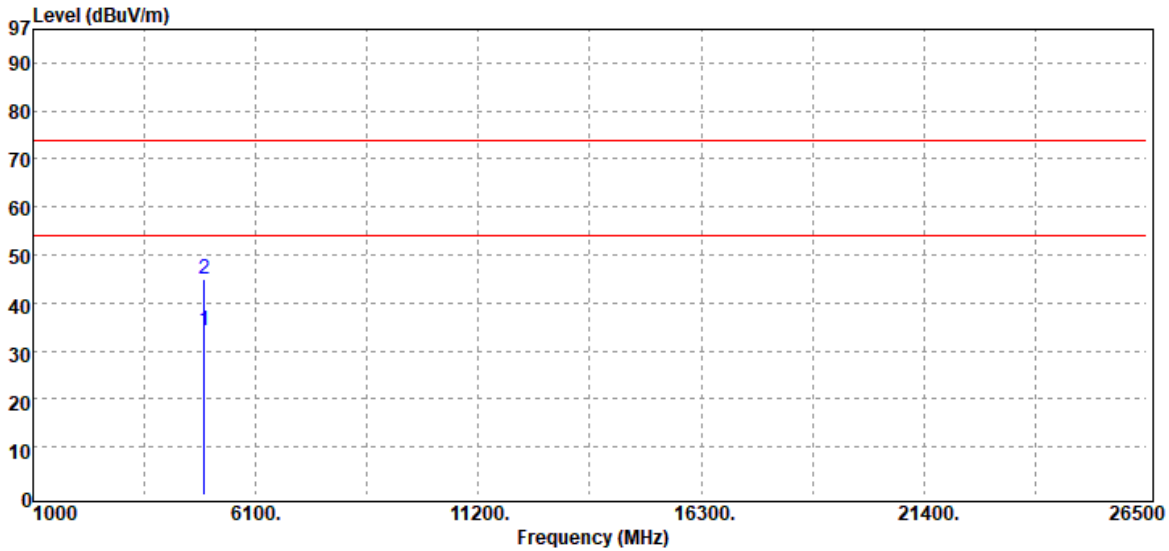
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 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	19.23	14.87	34.10	54.00	-19.90
4924.00	Peak	30.04	14.87	44.91	74.00	-29.09

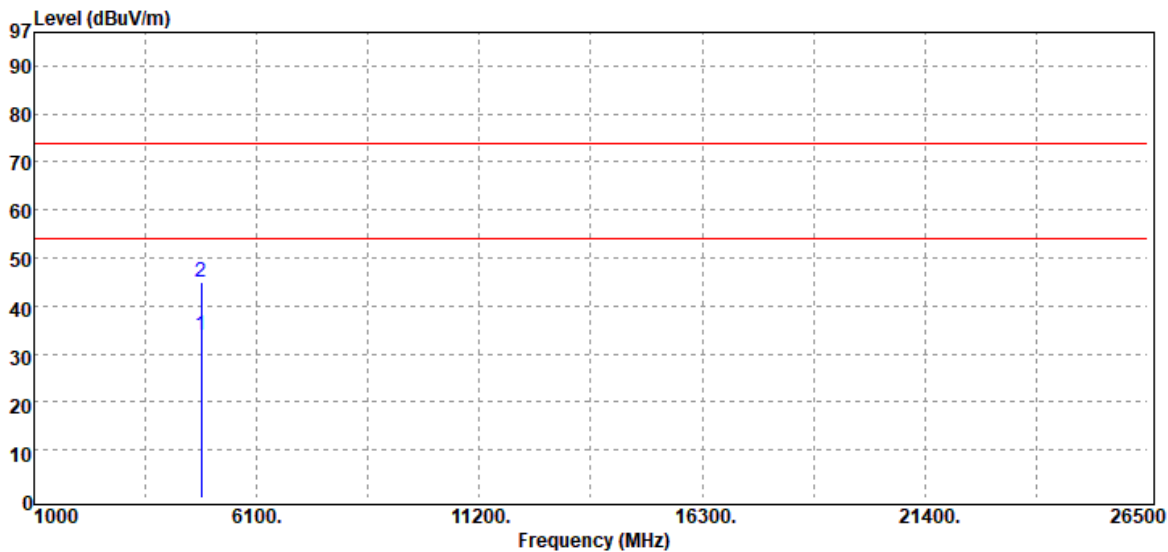
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Report Number :ER/2020/40013  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	19.28	14.56	33.84	54.00	-20.16
4824.00	Peak	30.26	14.56	44.82	74.00	-29.18

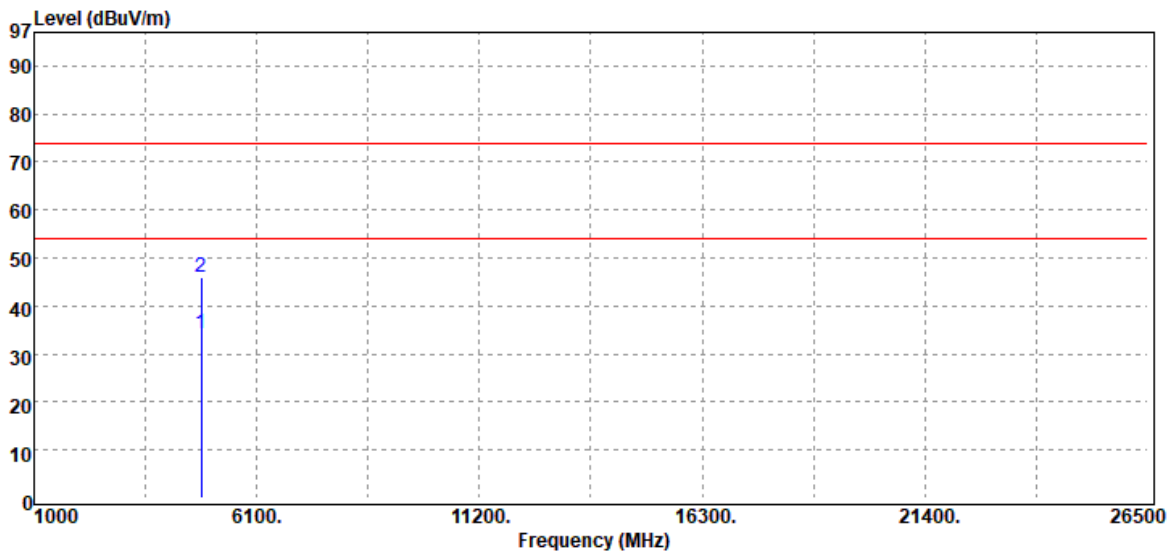
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 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	19.61	14.56	34.17	54.00	-19.83
4824.00	Peak	31.29	14.56	45.85	74.00	-28.15

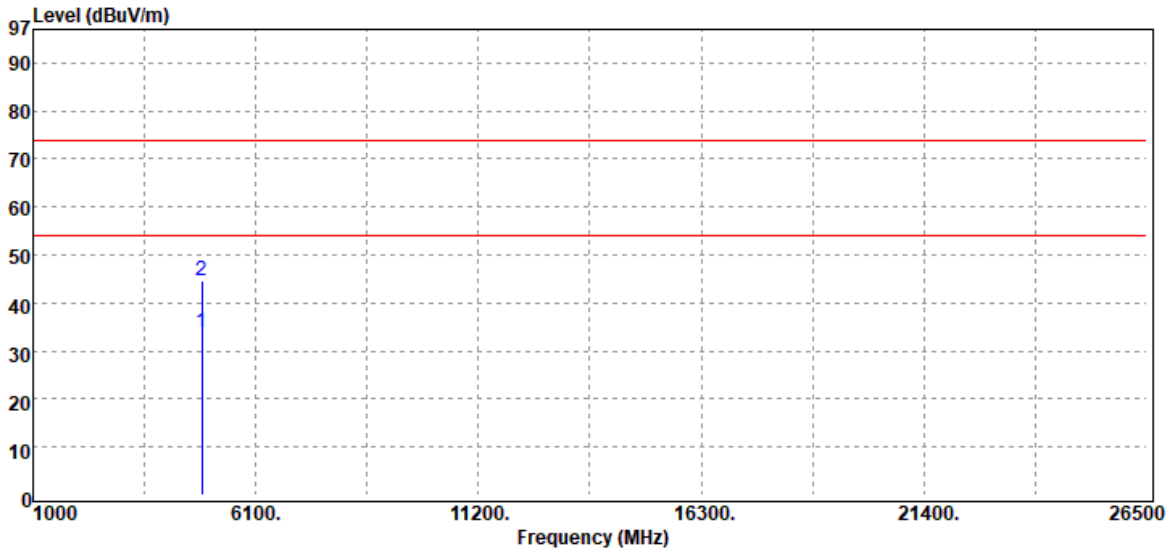
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Report Number :ER/2020/40013  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	19.07	14.85	33.92	54.00	-20.08
4874.00	Peak	29.81	14.85	44.66	74.00	-29.34

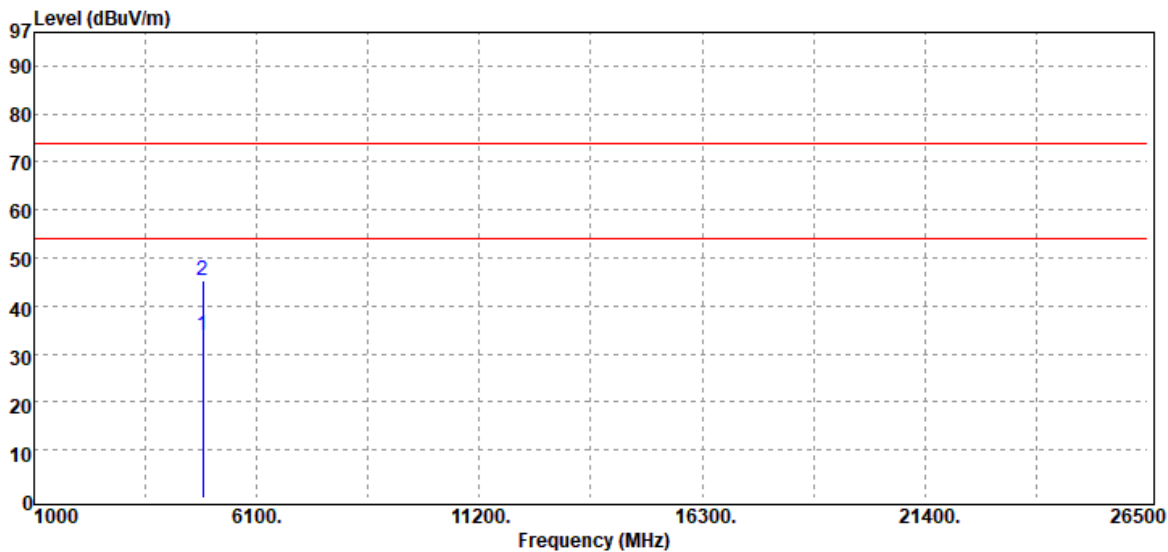
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 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	19.12	14.85	33.97	54.00	-20.03
4874.00	Peak	30.47	14.85	45.32	74.00	-28.68

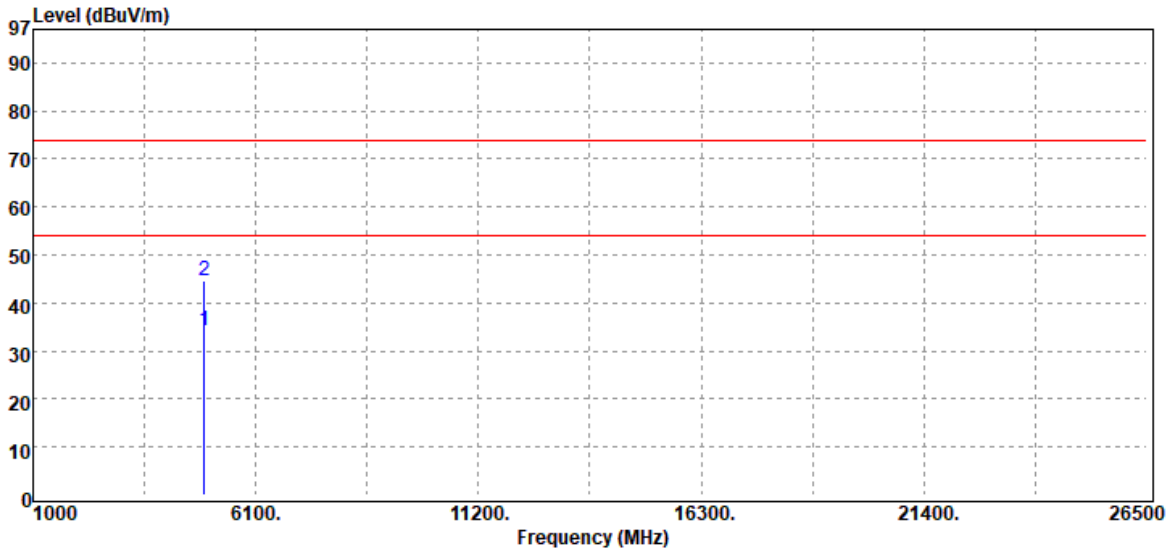
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 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	19.28	14.87	34.15	54.00	-19.85
4924.00	Peak	29.67	14.87	44.54	74.00	-29.46

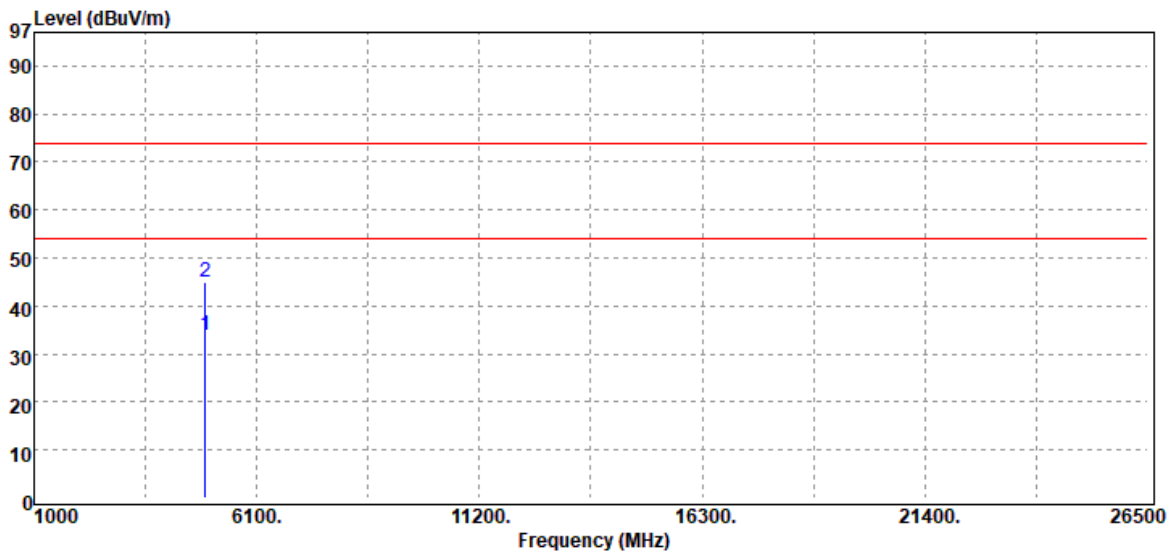
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 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Date :2020-04-23  
 Temp./Humi. :22.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	19.16	14.87	34.03	54.00	-19.97
4924.00	Peak	30.26	14.87	45.13	74.00	-28.87

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## 12 POWER SPECTRAL DENSITY

### 12.1 Standard Applicable

Per Part 15.247 (e)

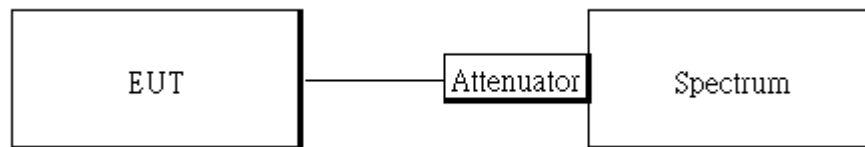
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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.
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

### 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. For defining Restricted Band Edge Limit:  
Set the RBW = 100kHz & VBW = 300 kHz
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

## 12.5 As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by  $G_1, G_2, \dots, G_N$  dBi.

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

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

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

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

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## 12.6 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2412	-7.21	10.84	8.00	PASS
2437	-7.49	10.84	8.00	PASS
2462	-7.56	10.84	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2412	-10.53	10.84	8.00	PASS
2437	-9.90	10.84	8.00	PASS
2462	-10.43	10.84	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2412	-10.77	10.84	8.00	PASS
2437	-10.56	10.84	8.00	PASS
2462	-10.41	10.84	8.00	PASS

### Note

Cable Loss 10.84 dB

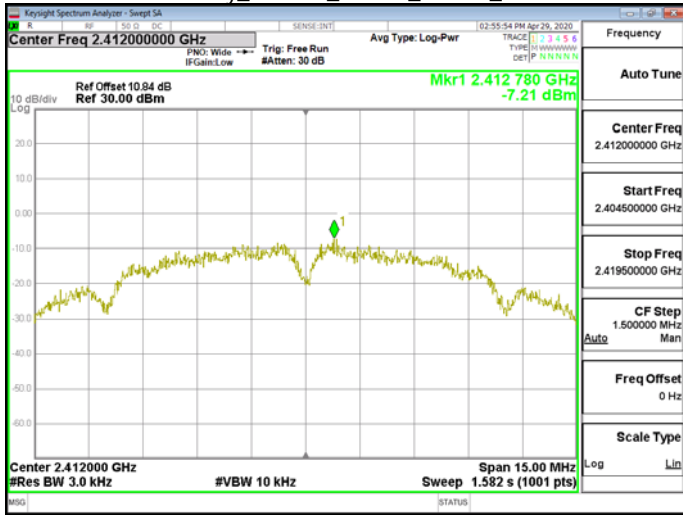
\*Refer to next page for plots

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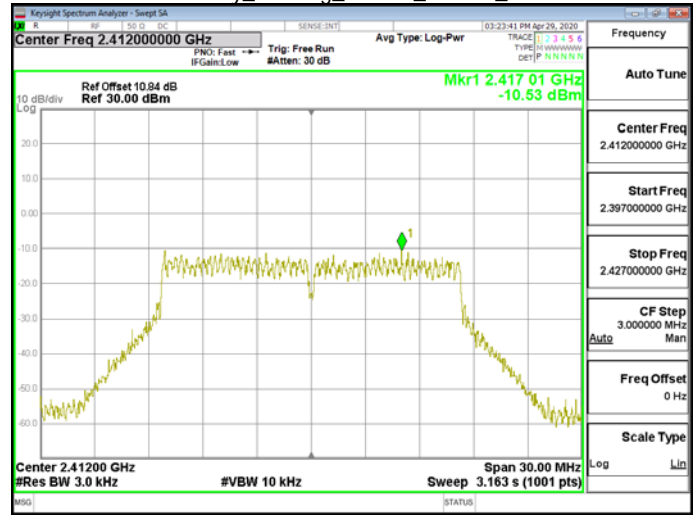
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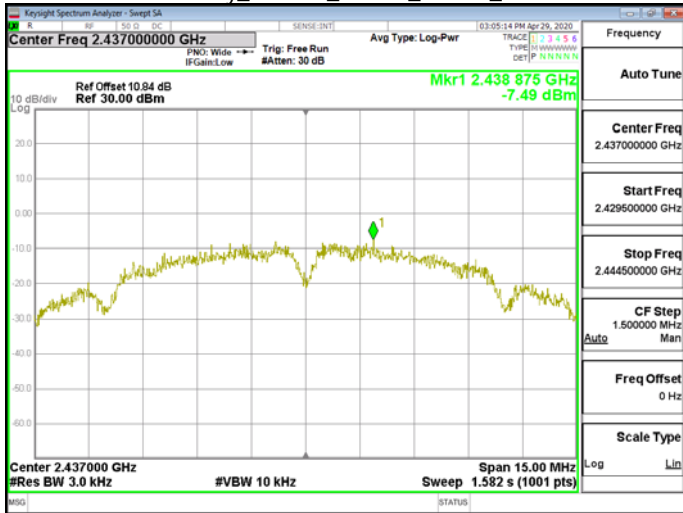
Power Density\_802.11b\_20MHz\_Chain0\_2412MHz



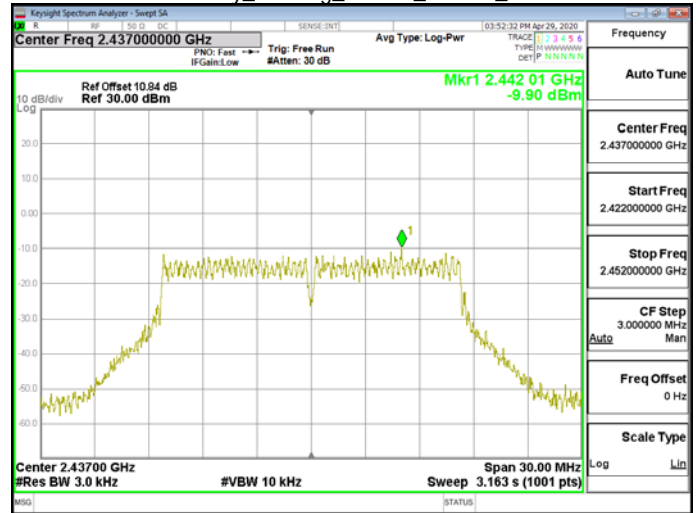
Power Density\_802.11g\_20MHz\_Chain0\_2412MHz



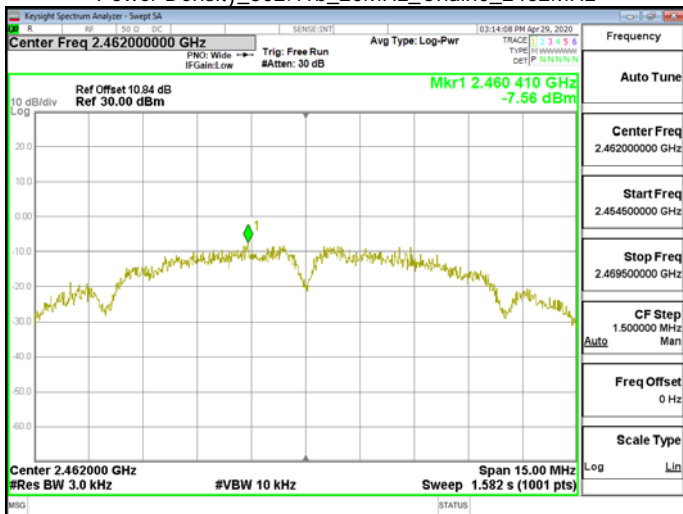
Power Density\_802.11b\_20MHz\_Chain0\_2437MHz



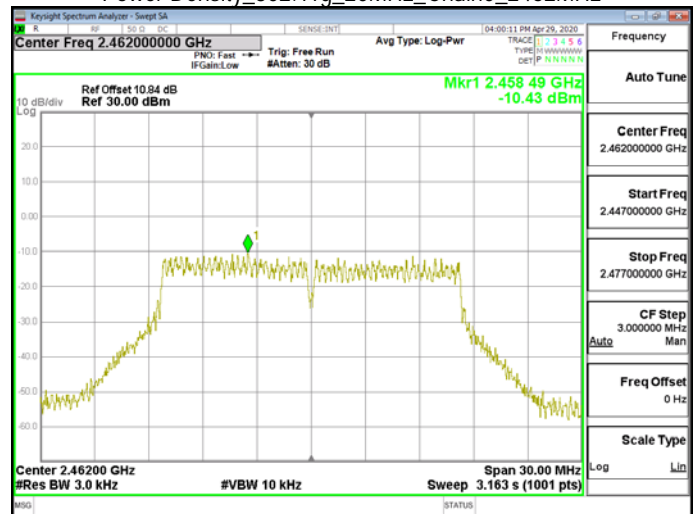
Power Density\_802.11g\_20MHz\_Chain0\_2437MHz



Power Density\_802.11b\_20MHz\_Chain0\_2462MHz



Power Density\_802.11g\_20MHz\_Chain0\_2462MHz

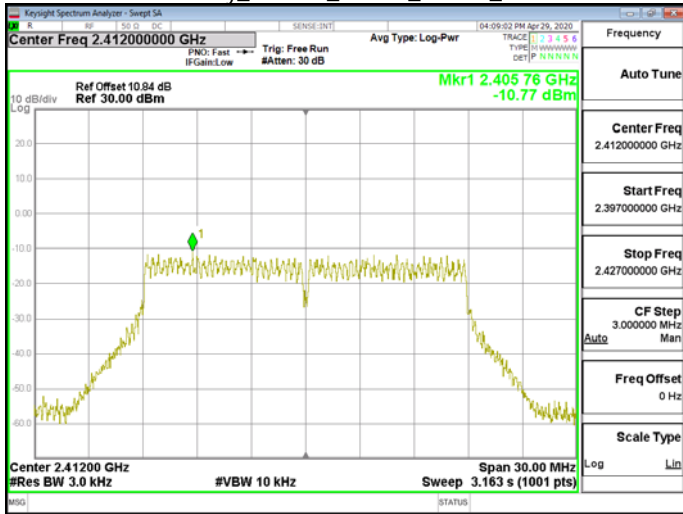


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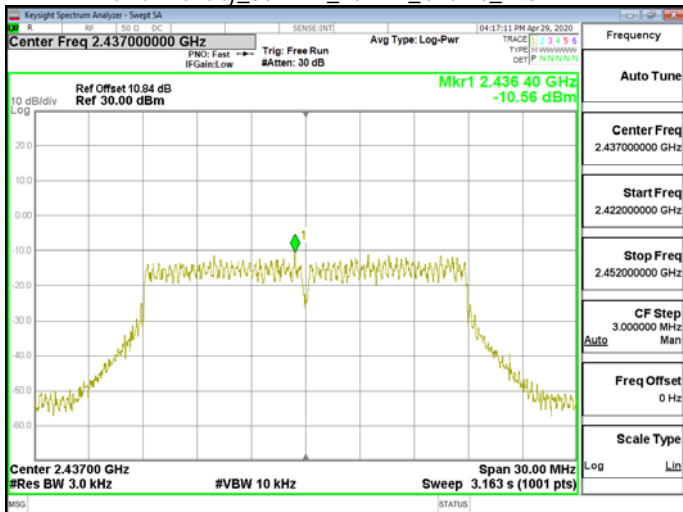
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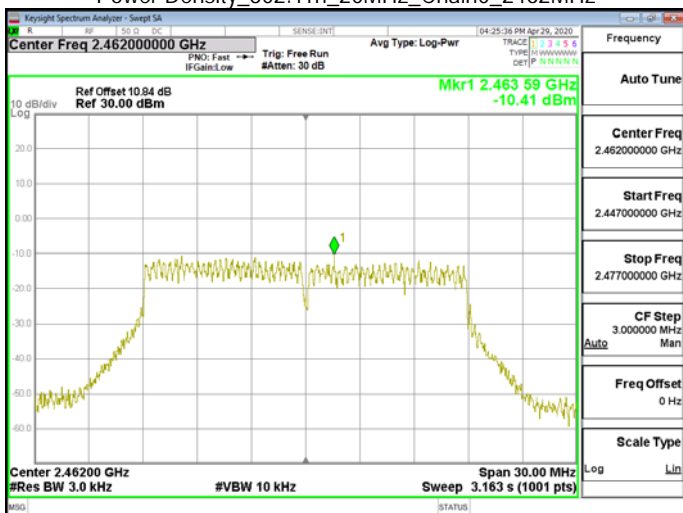
Power Density\_802.11n\_20MHz\_Chain0\_2412MHz



Power Density\_802.11n\_20MHz\_Chain0\_2437MHz



Power Density\_802.11n\_20MHz\_Chain0\_2462MHz



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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 as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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