

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Zorachka LTD
ALPHA TOWER, Floor 1, Flat 11, Pavlou Nirvana & Aipeias,
3021 Limassol, Cyprus

Product Name: Homam

Brand Name: Zorachka

Model No.: C1132

Model Difference: N/A

Report Number: ER/2020/20060

FCC ID 2AWBH-C1132

IC: 25832-C1132

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: Jul. 02, 2020

Date of Test: Mar. 19, 2020 ~ Apr. 22, 2020

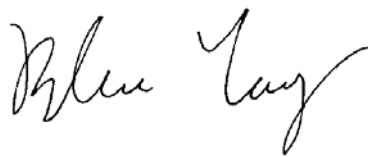
Date of EUT Received: Feb. 19, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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: _____



Blue Yang / Asst. Manager



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/20060	Rev.00	Original.	Jul. 02, 2020	Revised By: Karen Huang

Note:

1. Disclaimer

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

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Homam	
Brand Name:	Zorachka	
Model No.:	C1132	
Model Difference:	N/A	
Hardware Version:	1.3.1	
Software Version:	1.x.x	
USB Cable	Model No.: N/A, Supplier: Zorachka	
Power Supply:	5Vdc from Adapter	
	Adapter:	Model No.: PS-10U5 Supplier: Zorachka

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	11.71 (2TX)	DSSS, OFDM
g			26.17 (2TX)	
n_HT20			24.85 (MIMO)	
n_HT40	2422-2452	7	24.26 (MIMO)	
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 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps			

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1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
Flex	molex	2042810100	2.4GHz	2.0	-
		2042810100	2.4GHz	2.0	-

Note: Pre-scanned was done on the above 2 antennas, the MIMO mode results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

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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
RSS-247 issue 2 Feb. 2017
RSS-Gen. issue 5, Amendment 1, March 2019
ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803
FCC Designation number: TW0027
ISED CAB identifier: TW3702

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 Conducted (Antenna Port) Configuration



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

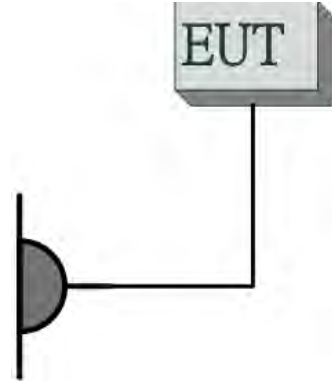


Fig 2-2 Radiated Emission



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.	Notebook	Lenovo	L480	PF-1S9Q32	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.1 a RSS-Gen §6.7	6dB & 99% Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.10	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203 §15.247(b)	RSS- Gen §6.8	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.

7 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 type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> SISO	<input checked="" 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"/> SISO	<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
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 11	6	OFDM	6	2TX
802.11n 40M	3 to 9	6	OFDM	MCS 8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 11	1, 6, 11	DSSS	1	2TX
802.11g	1 to 11	1, 6, 11	OFDM	6	2TX
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n 40M	3 to 9	3,4,5,6,7,8,9	OFDM	MCS 8	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	2TX
802.11g	1 to 11	1, 6, 11	OFDM	6	2TX
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n 40M	3 to 9	3,4,5,6,7,8,9	OFDM	MCS 8	MIMO

Note: EUT serial number is WFB0054.

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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.
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
LISN	SCHWARZBECK	NSLK 8127	8127-649	04/02/2019	04/01/2020
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2020	01/01/2021

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

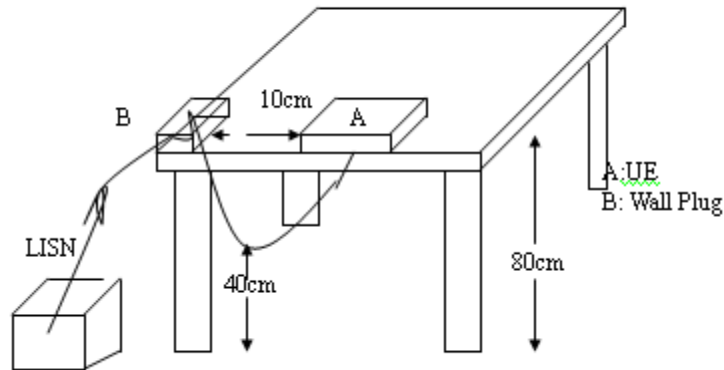
6.3 EUT Setup

- 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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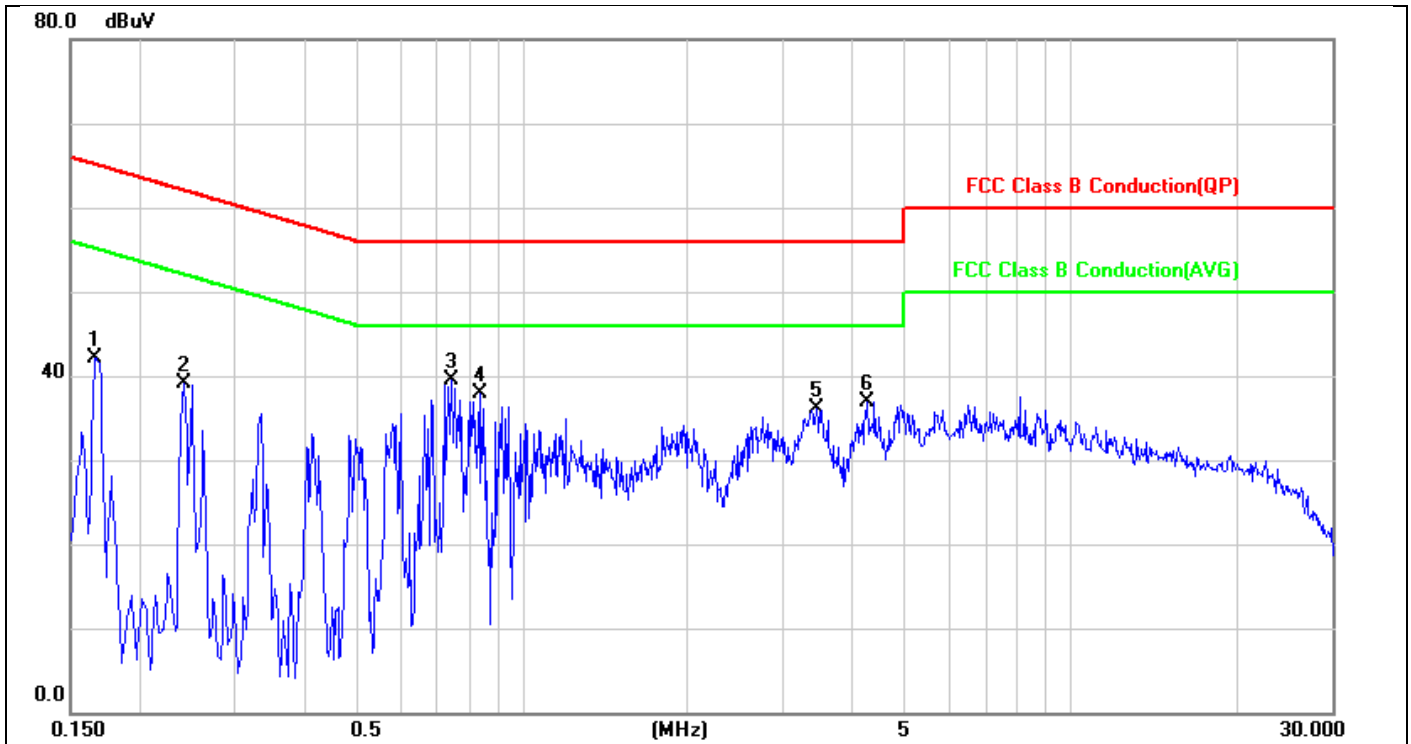
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2020/03/28
Line:	L1	Temp.(°C)/Hum.(%):	23(°C)/70%
Test Voltage:	AC 120V/60Hz	Test By:	Nick
Report Number:	ER-2020-20060		



No.	Mk.	Freq.	Reading	Factor	Measure- ment	Limit	Over	Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1660	42.19	0.00	42.19	65.16	-22.97	peak	
2		0.2420	39.00	0.01	39.01	62.03	-23.02	peak	
3	*	0.7460	39.44	0.02	39.46	56.00	-16.54	peak	
4		0.8380	37.88	0.02	37.90	56.00	-18.10	peak	
5		3.4380	35.95	0.11	36.06	56.00	-19.94	peak	
6		4.2500	36.76	0.15	36.91	56.00	-19.09	peak	

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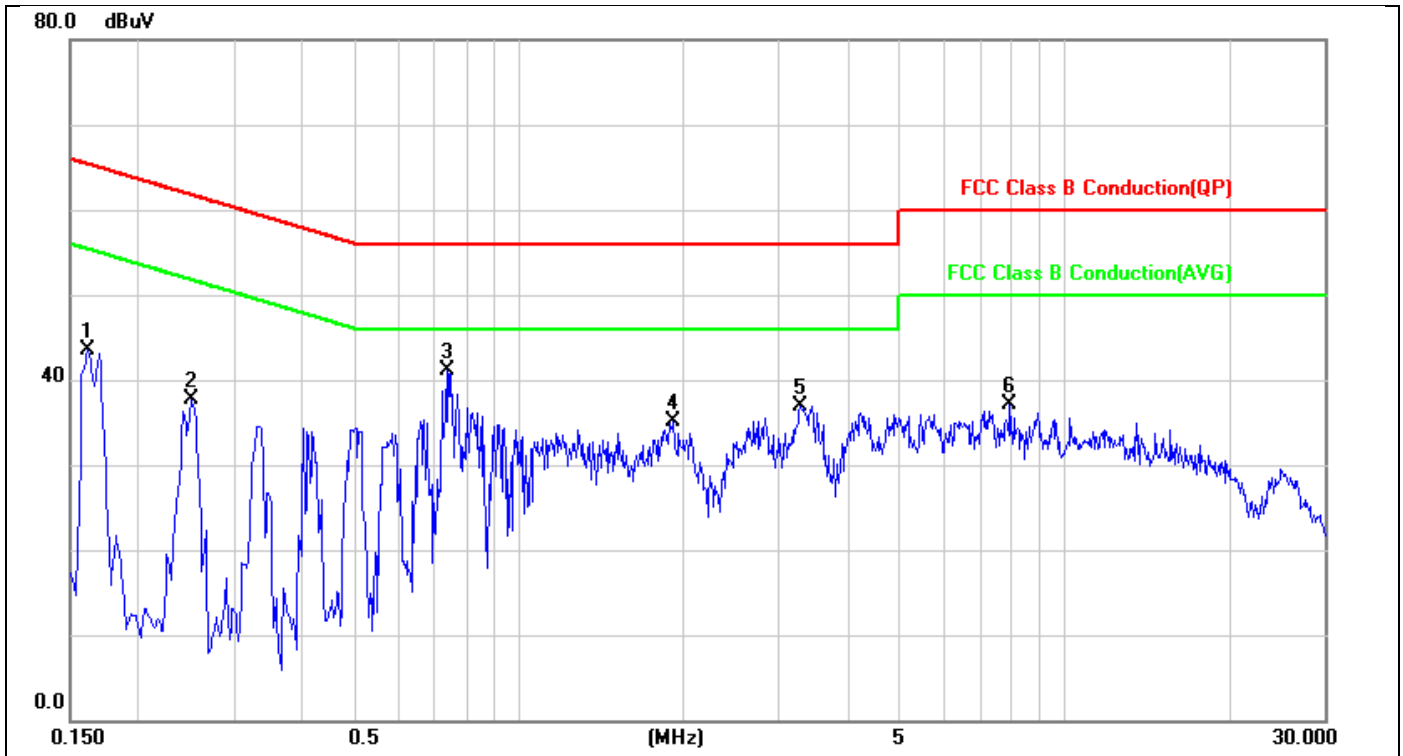
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Description:	Operation	Date:	2020/03/28
Line:	N	Temp.(°C)/Hum.(%):	23(°C)/70%
Test Voltage:	AC 120V/60Hz	Test By:	Nick
Report Number:	ER-2020-20060		



No.	Mk.	Freq.	Reading	Factor	Measure- ment	Limit	Over	Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1620	43.52	0.03	43.55	65.36	-21.81	peak	
2		0.2500	37.59	0.03	37.62	61.76	-24.14	peak	
3	*	0.7380	41.15	0.04	41.19	56.00	-14.81	peak	
4		1.9220	35.02	0.06	35.08	56.00	-20.92	peak	
5		3.2780	36.88	0.11	36.99	56.00	-19.01	peak	
6		7.9380	36.81	0.25	37.06	60.00	-22.94	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	99.47	0.02	0.45	0.01
802.11g	97.10	0.13	2.72	3.00
802.11n_20	93.88	0.27	5.43	6.00
802.11n_40	90.32	0.44	8.93	9.00

Duty Cycle Factor: $10 * \log(1/0.9947) = 0.02$

Duty Cycle Factor: $10 * \log(1/0.971) = 0.13$

Duty Cycle Factor: $10 * \log(1/0.9388) = 0.27$

Duty Cycle Factor: $10 * \log(1/0.9032) = 0.44$

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7.3 Duty Cycle test plots

Duty Cycle_802.11b_20MHz_Chain0_2412MHz



Duty Cycle_802.11n_20MHz_Chain0_2412MHz



Duty Cycle_802.11g_20MHz_Chain0_2412MHz



Duty Cycle_802.11n_40MHz_Chain0_2422MHz



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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.

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

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

$$= 10 \log \left[\left(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20} \right)^2 / N_{ANT} \right] \text{ dBi}$$

[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 grater than 6 dBi. Therefore, reduction of power is not required.

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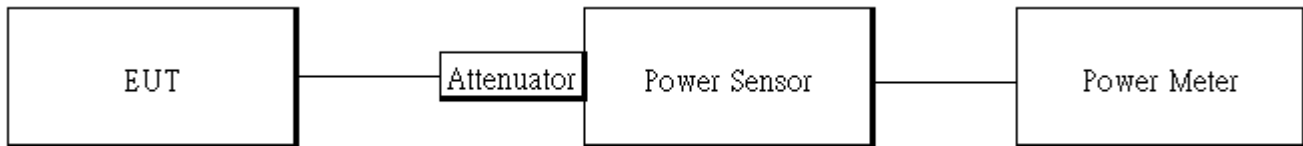
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726104	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726107	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021

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_2TX							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	1	6.89	6.94	9.93	30.00	PASS
6	2437	1	7.75	7.76	10.77	30.00	PASS
11	2462	1	8.68	8.72	11.71	30.00	PASS
802.11b_2TX							
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			
1	2412	1	4.26	4.53	7.43	30.00	PASS
6	2437	1	5.17	5.38	8.31	30.00	PASS
11	2462	1	6.07	6.28	9.21	30.00	PASS

802.11g_2TX							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	6	18.29	18.34	21.33	30.00	PASS
6	2437	6	18.25	18.14	21.21	30.00	PASS
11	2462	6	23.30	23.01	26.17	30.00	PASS
802.11g_2TX							
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			
1	2412	6	7.95	8.16	11.19	30.00	PASS
6	2437	6	7.89	8.11	11.14	30.00	PASS
11	2462	6	12.65	12.83	15.88	30.00	PASS

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802.11n_HT20M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	MCS8	18.11	17.57	20.86	30.00	PASS
6	2437	MCS8	17.12	16.91	20.03	30.00	PASS
11	2462	MCS8	22.04	21.64	24.85	30.00	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			
1	2412	MCS8	8.01	8.16	11.37	30.00	PASS
6	2437	MCS8	6.97	7.14	10.34	30.00	PASS
11	2462	MCS8	11.70	11.91	15.09	30.00	PASS

802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
3	2422	MCS8	17.36	17.07	20.23	30.00	PASS
4	2427	MCS8	17.30	17.85	20.59	30.00	PASS
5	2432	MCS8	17.23	17.71	20.49	30.00	PASS
6	2437	MCS8	17.11	16.73	19.93	30.00	PASS
7	2442	MCS8	19.29	19.33	22.32	30.00	PASS
8	2447	MCS8	21.20	21.29	24.26	30.00	PASS
9	2452	MCS8	21.30	20.58	23.97	30.00	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			
3	2422	MCS8	6.82	7.07	10.40	30.00	PASS
4	2427	MCS8	6.76	7.38	10.53	30.00	PASS
5	2432	MCS8	6.74	7.37	10.52	30.00	PASS
6	2437	MCS8	6.79	7.04	10.37	30.00	PASS
7	2442	MCS8	8.66	9.27	12.43	30.00	PASS
8	2447	MCS8	10.56	11.16	14.32	30.00	PASS
9	2452	MCS8	10.56	10.75	14.11	30.00	PASS

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802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	4.26	4.53	7.43	5.01	12.44	36	PASS
6	2437	1	5.17	5.38	8.31	5.01	13.32	36	PASS
11	2462	1	6.07	6.28	9.21	5.01	14.22	36	PASS

802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	7.95	8.16	11.19	5.01	16.20	36	PASS
6	2437	6	7.89	8.11	11.14	5.01	16.15	36	PASS
11	2462	6	12.65	12.83	15.88	5.01	20.89	36	PASS

802.11n_HT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	18.11	17.57	11.37	5.01	16.38	36	PASS
6	2437	MCS8	17.12	16.91	10.34	5.01	15.35	36	PASS
11	2462	MCS8	22.04	21.64	15.09	5.01	20.10	36	PASS

802.11n_HT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	6.82	7.07	10.40	5.01	15.41	36	PASS
4	2427	MCS8	6.76	7.38	10.53	5.01	15.54	36	PASS
5	2432	MCS8	6.74	7.37	10.52	5.01	15.53	36	PASS
6	2437	MCS8	6.79	7.04	10.37	5.01	15.38	36	PASS
7	2442	MCS8	8.66	9.27	12.43	5.01	17.44	36	PASS
8	2447	MCS8	10.56	11.16	14.32	5.01	19.33	36	PASS
9	2452	MCS8	10.56	10.75	14.11	5.01	19.12	36	PASS

Note

Cable Loss 12.35 dB

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9 6DB & 99% BANDWIDTH MEASUREMENT

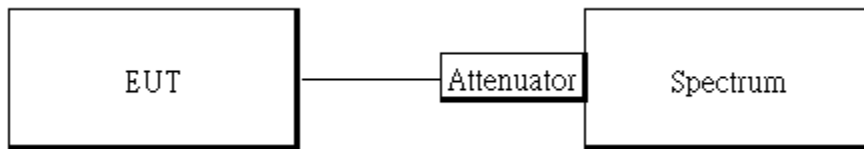
9.1 Standard Applicable

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.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

9.3 Test Set-up



9.4 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 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.
- Mark the peak frequency and -6dB (upper and lower) frequency.
- For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = large enough to capture all products of the modulation process, Detector=Sample, Sweep=auto.
- Turn on the 99% bandwidth function, max reading.
- Repeat above procedures until all frequency of interest measured was complete.

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9.5 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10110.00	> 500	PASS
2437	10110.00	> 500	PASS
2462	10110.00	> 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10110.00	> 500	PASS
2437	10120.00	> 500	PASS
2462	10120.00	> 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16410.00	> 500	PASS
2437	16390.00	> 500	PASS
2462	16400.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16420.00	> 500	PASS
2437	16410.00	> 500	PASS
2462	16400.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17580.00	> 500	PASS
2437	17590.00	> 500	PASS
2462	17590.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17590.00	> 500	PASS
2437	17590.00	> 500	PASS
2462	17590.00	> 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35790.00	> 500	PASS
2437	35920.00	> 500	PASS
2452	35940.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35740.00	> 500	PASS
2437	35940.00	> 500	PASS
2452	35790.00	> 500	PASS

*Refer to next page for plots

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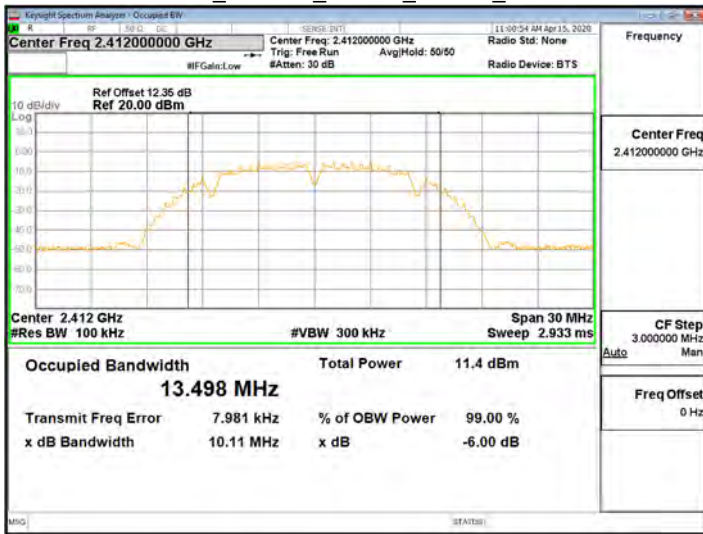
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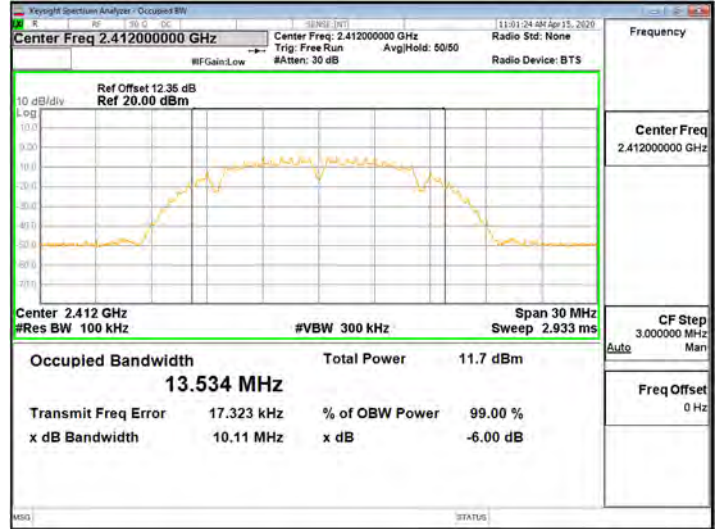
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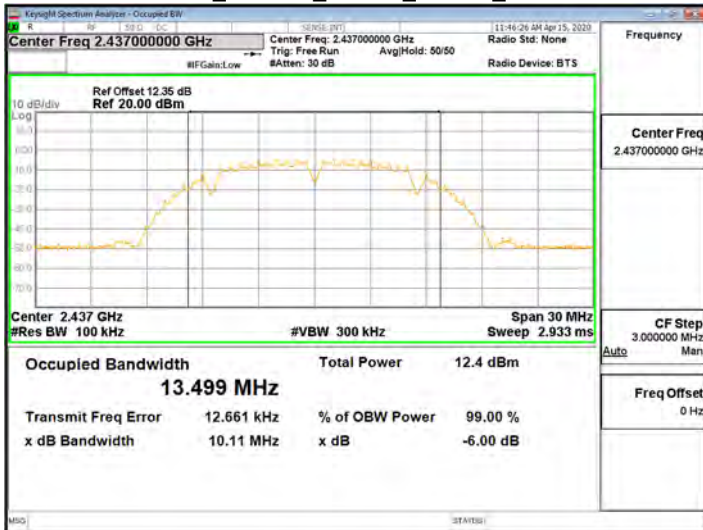
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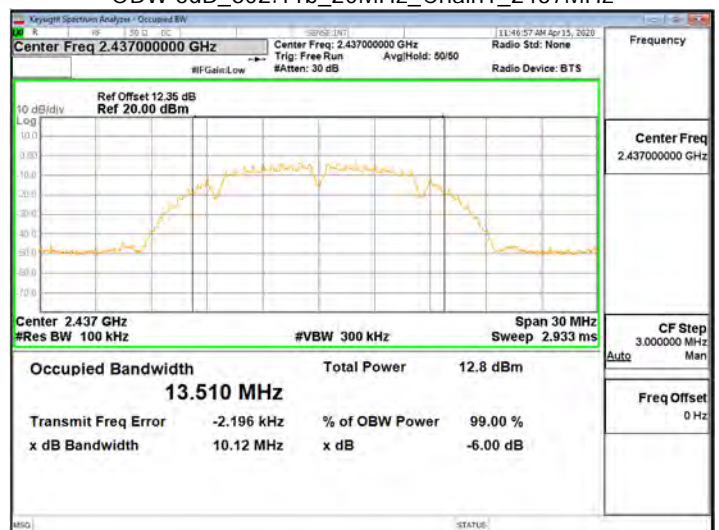
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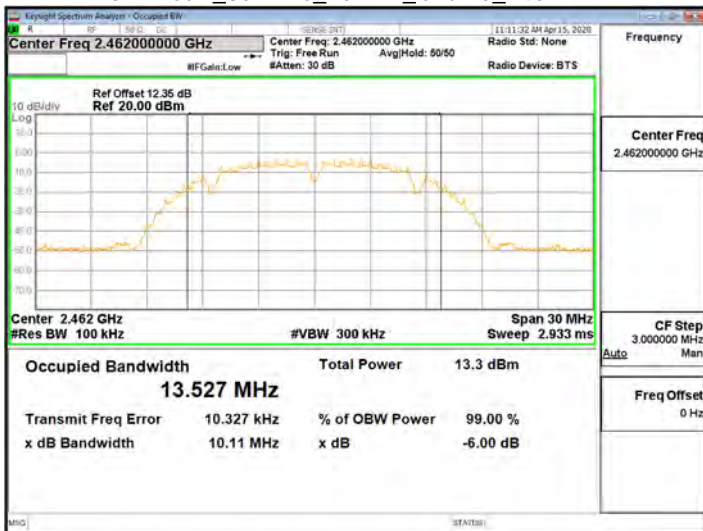
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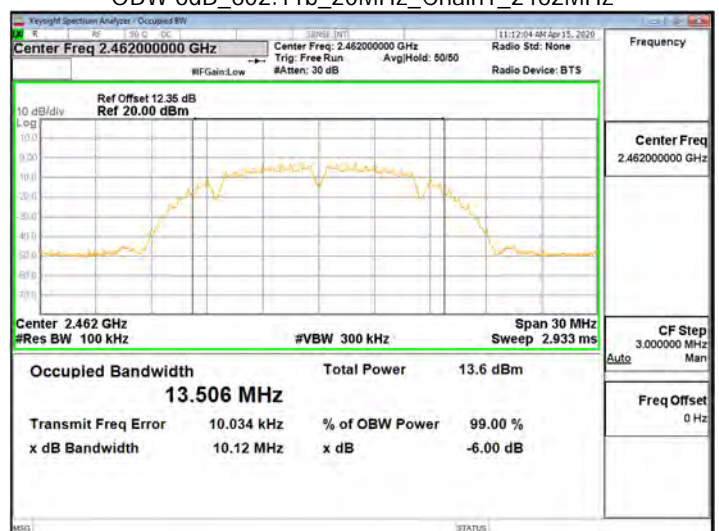
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OBW 6dB_802.11b_20MHz_Chain0_2462MHz



OBW 6dB_802.11b_20MHz_Chain1_2462MHz

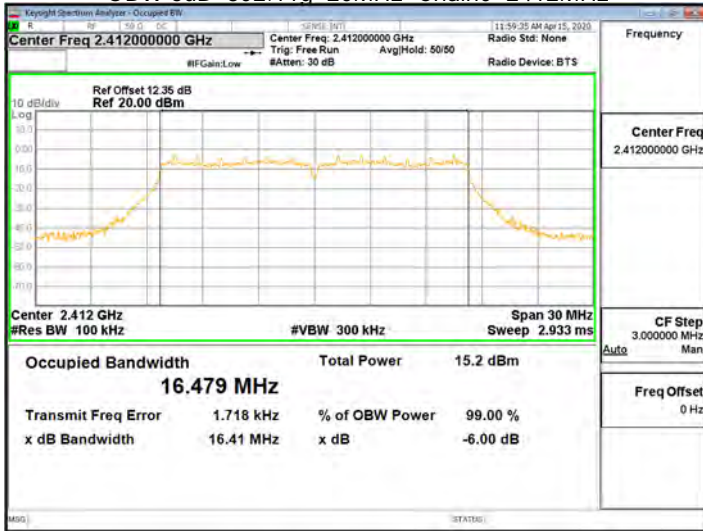


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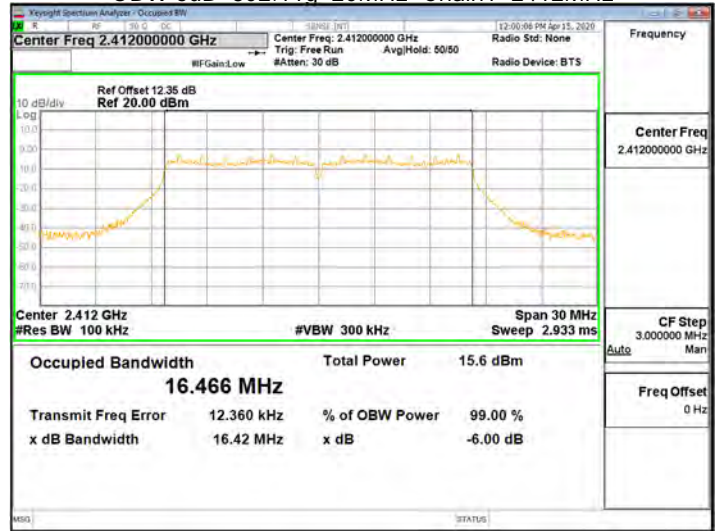
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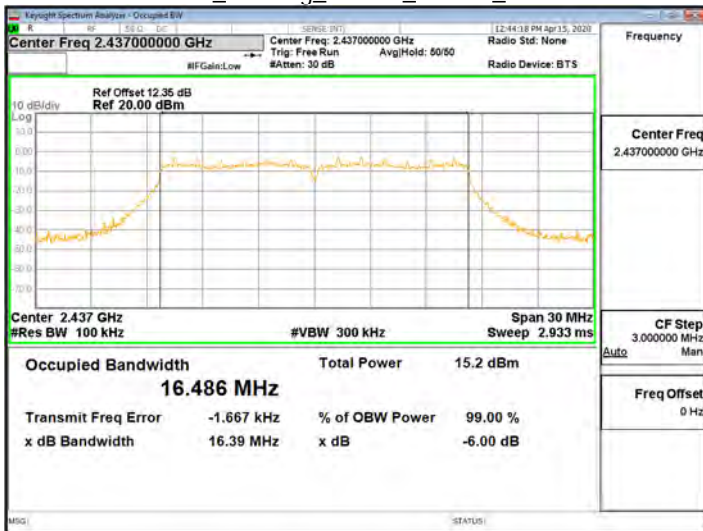
OBW 6dB 802.11g 20MHz Chain0 2412MHz



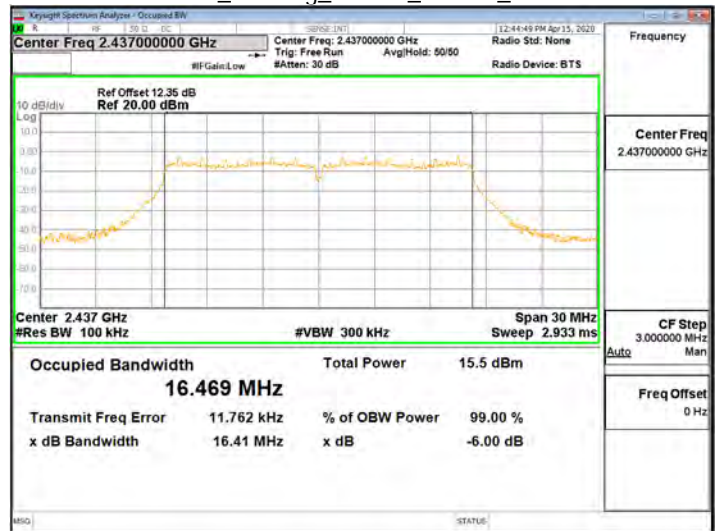
OBW 6dB 802.11g 20MHz Chain1 2412MHz



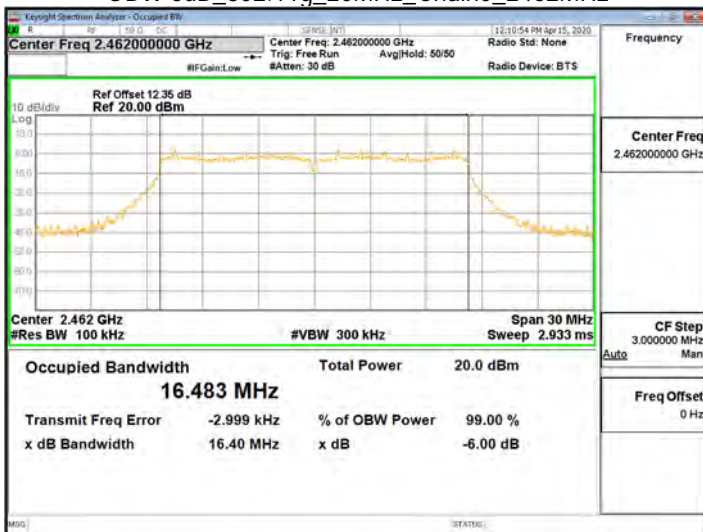
OBW 6dB 802.11g 20MHz Chain0 2437MHz



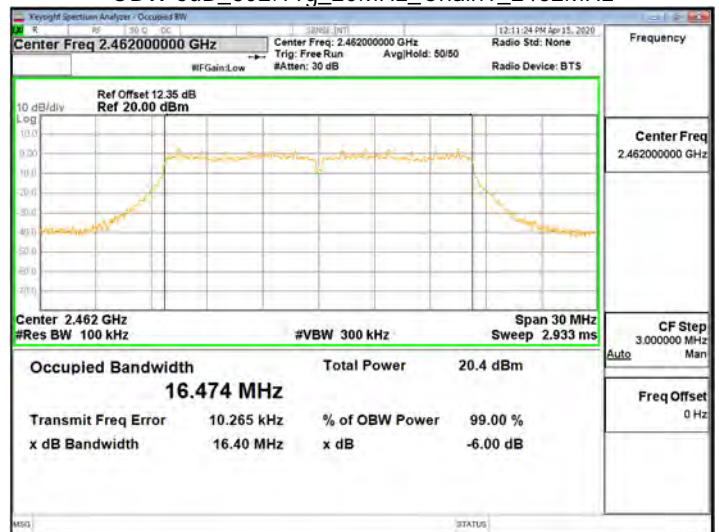
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OBW 6dB 802.11g 20MHz Chain0 2462MHz



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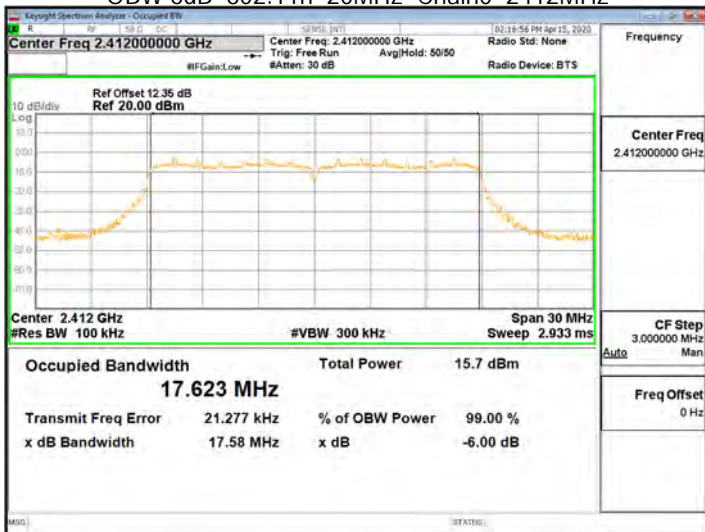


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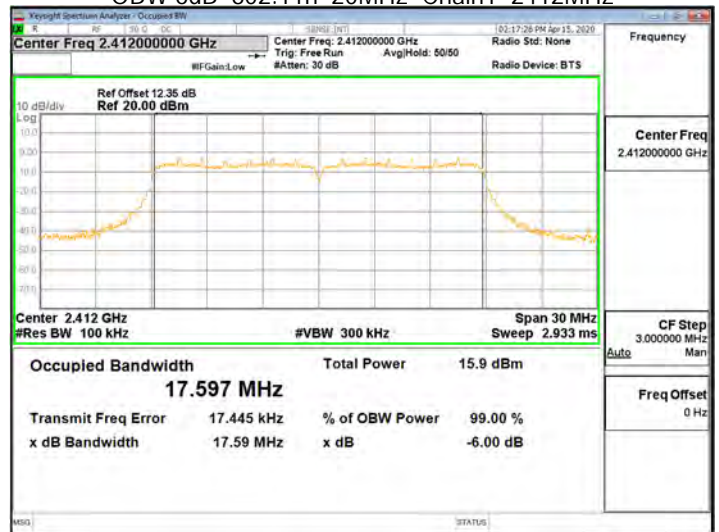
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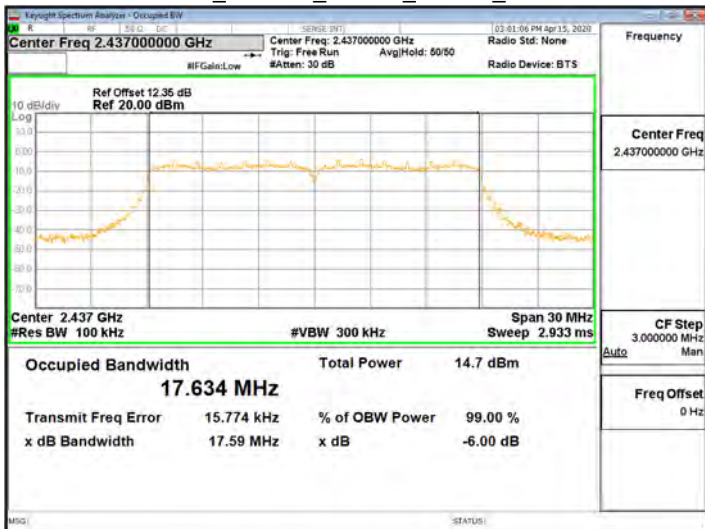
OBW 6dB 802.11n 20MHz Chain0 2412MHz



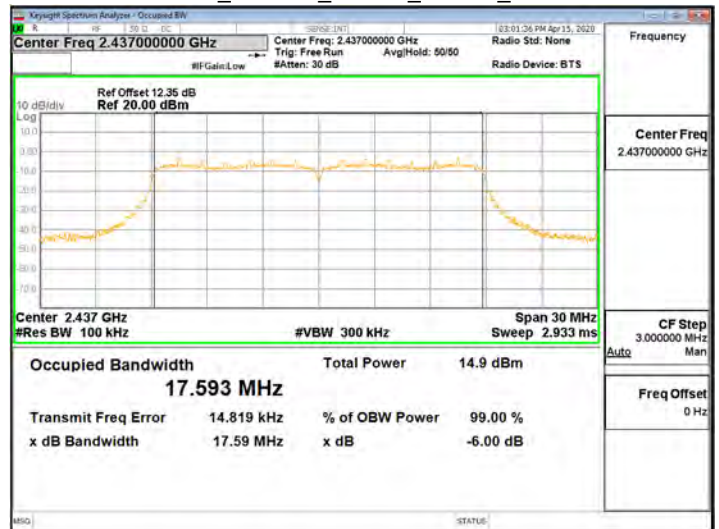
OBW 6dB 802.11n 20MHz Chain1 2412MHz



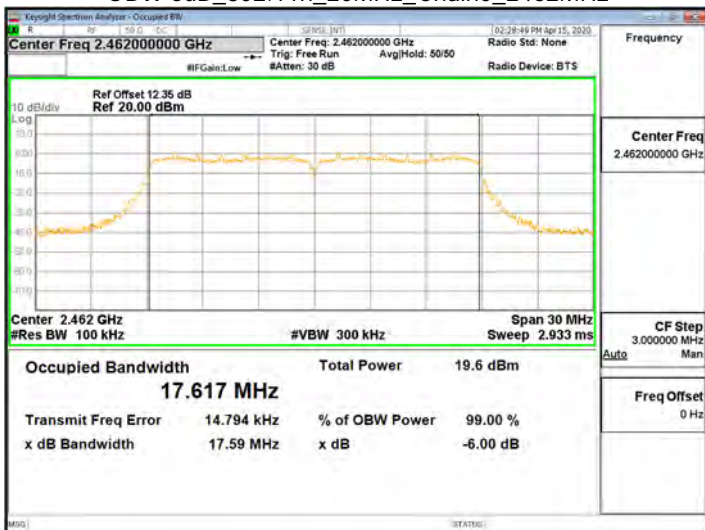
OBW 6dB 802.11n 20MHz Chain0 2437MHz



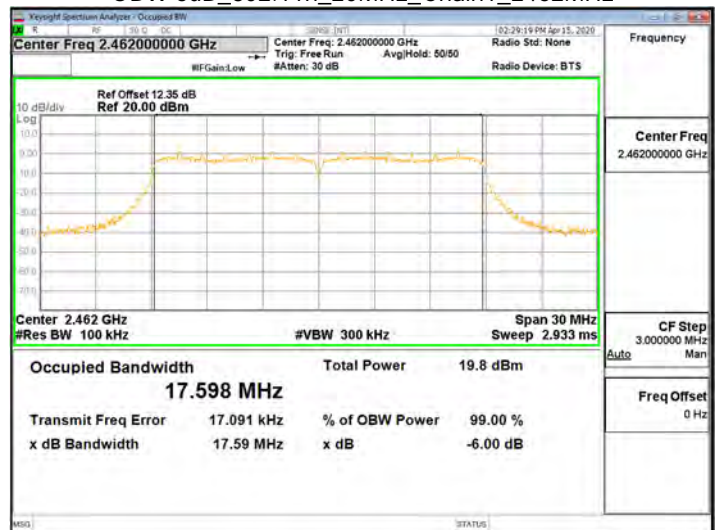
OBW 6dB 802.11n 20MHz Chain1 2437MHz



OBW 6dB 802.11n 20MHz Chain0 2462MHz



OBW 6dB 802.11n 20MHz Chain1 2462MHz

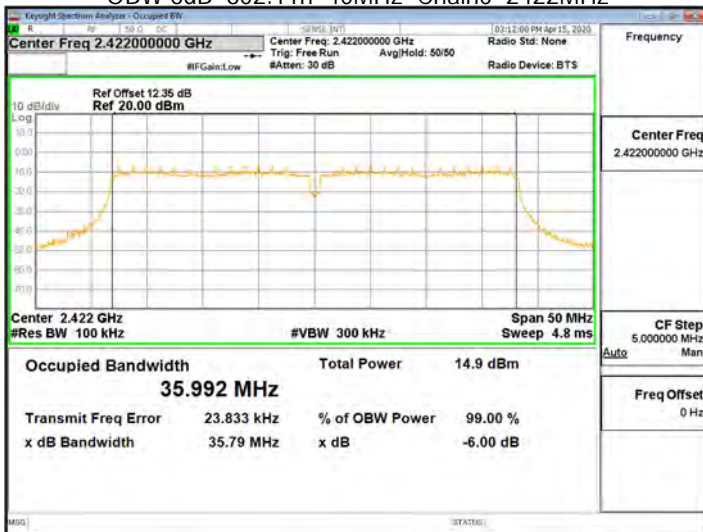


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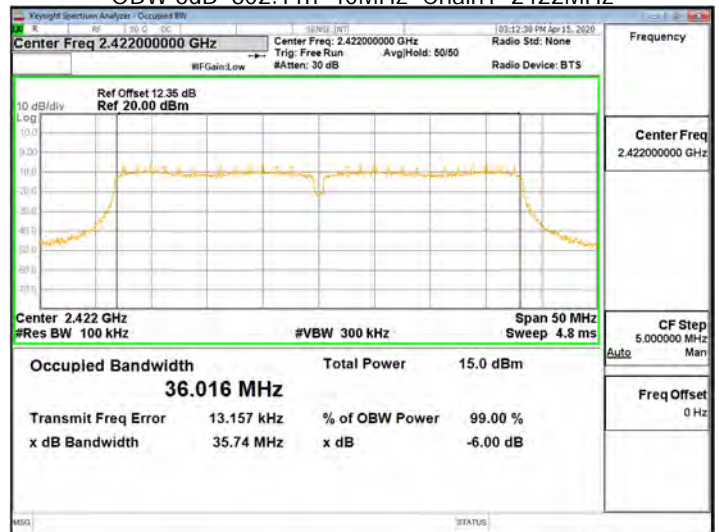
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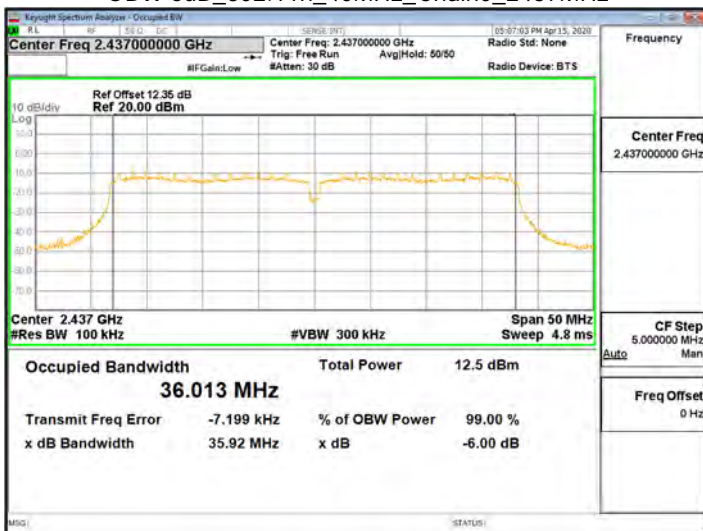
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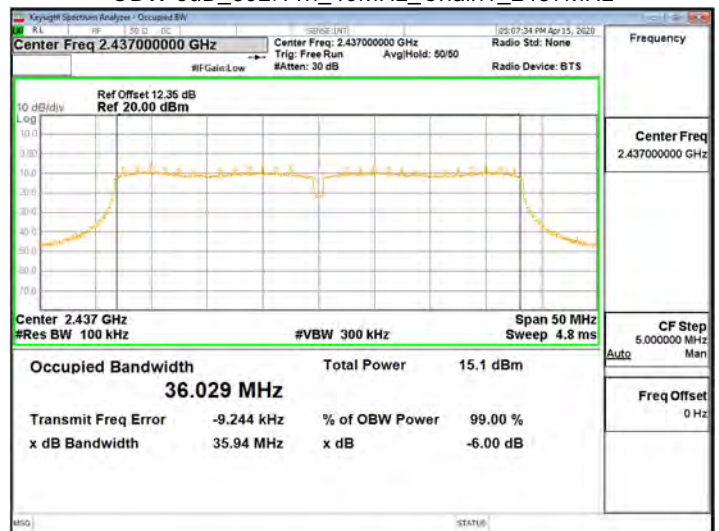
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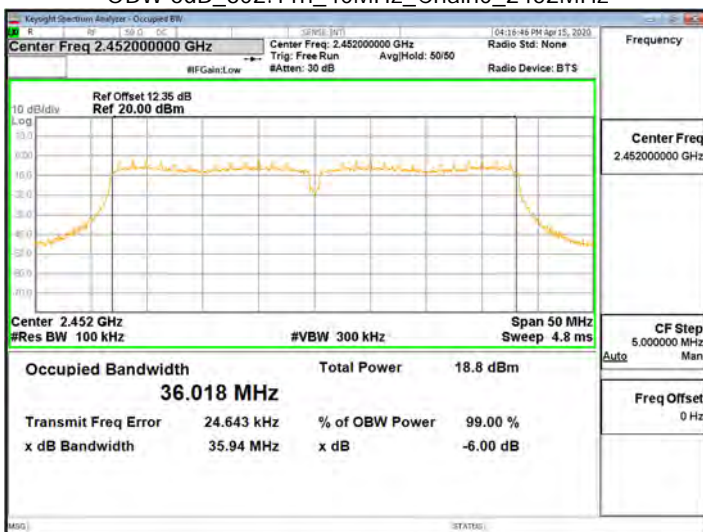
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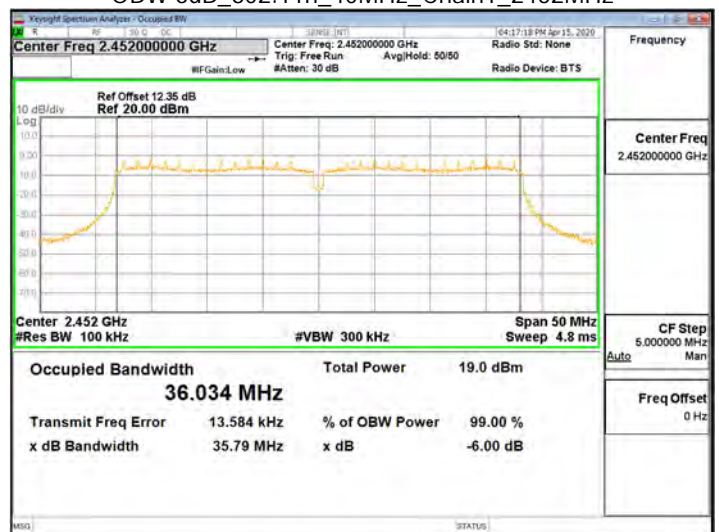
OBW 6dB 802.11n 40MHz Chain1 2437MHz



OBW 6dB 802.11n 40MHz Chain0 2452MHz



OBW 6dB 802.11n 40MHz Chain1 2452MHz



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9.6 99% Bandwidth

802.11b Ch0	
Freq. (MHz)	99% BW (MHz)
2412	13.61
2437	13.586
2462	13.594

802.11n_HT20M Ch0	
Freq. (MHz)	99% BW (MHz)
2412	17.779
2437	17.782
2462	17.783

802.11b Ch1	
Freq. (MHz)	99% BW (MHz)
2412	13.644
2437	13.552
2462	13.567

802.11n_HT20M Ch1	
Freq. (MHz)	99% BW (MHz)
2412	17.711
2437	17.697
2462	17.72

802.11g Ch0	
Freq. (MHz)	99% BW (MHz)
2412	16.895
2437	16.906
2462	16.9

802.11n_HT40M Ch0	
Freq. (MHz)	99% BW (MHz)
2422	36.201
2437	36.186
2452	36.188

802.11g Ch1	
Freq. (MHz)	99% BW (MHz)
2412	16.747
2437	16.741
2462	16.743

802.11n_HT40M Ch1	
Freq. (MHz)	99% BW (MHz)
2422	36.176
2437	36.144
2452	36.167

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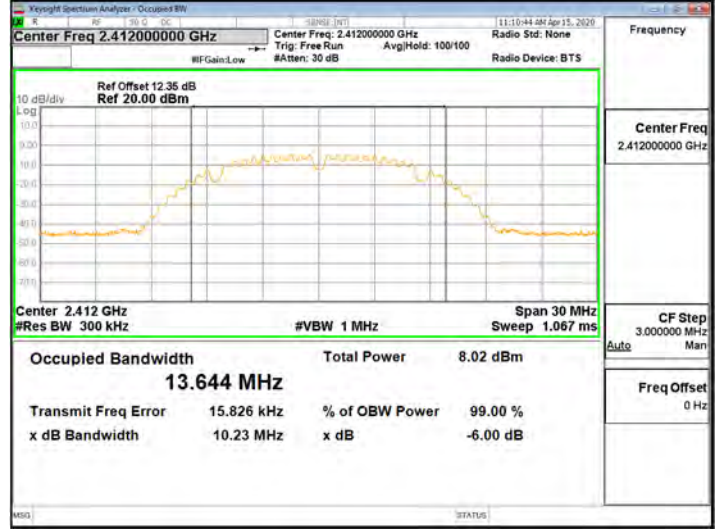
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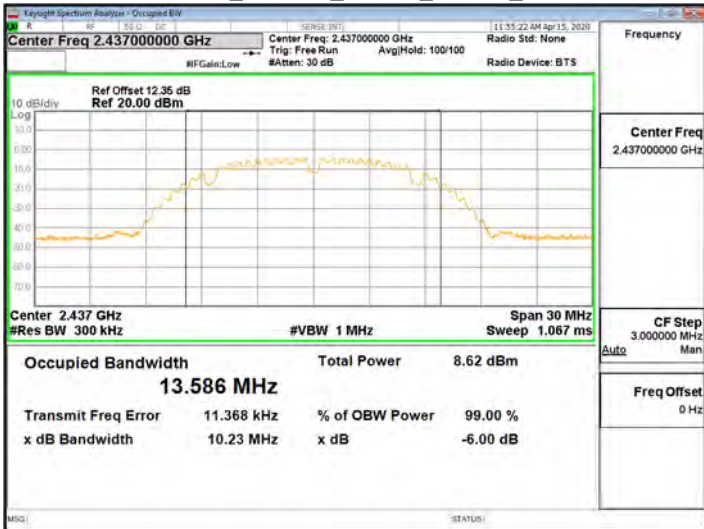
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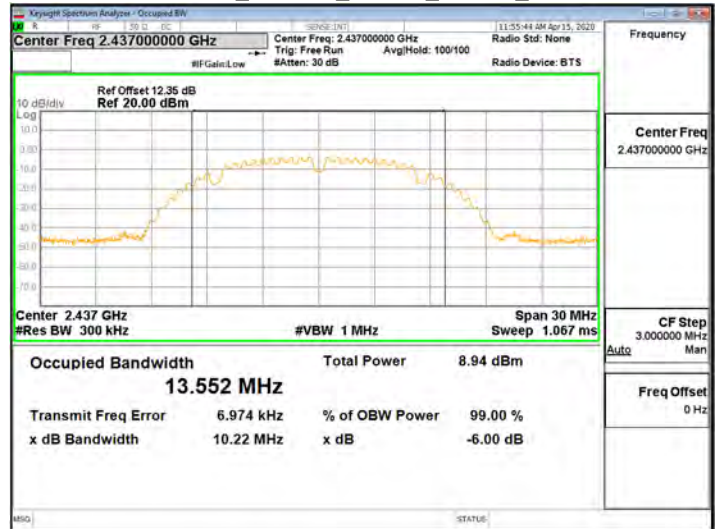
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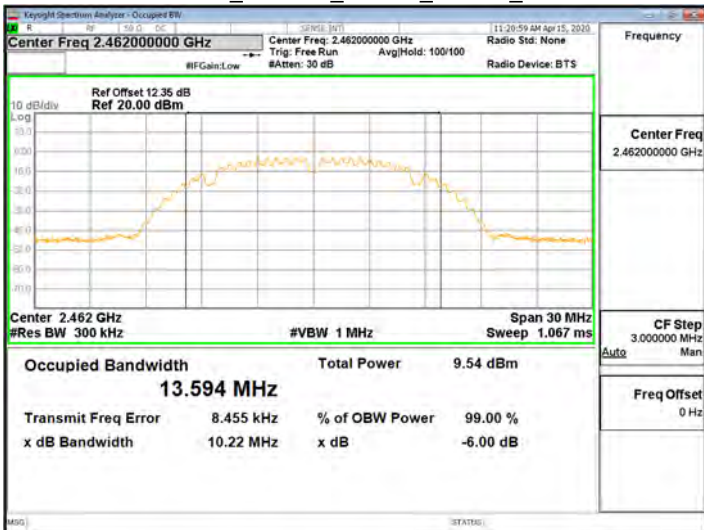
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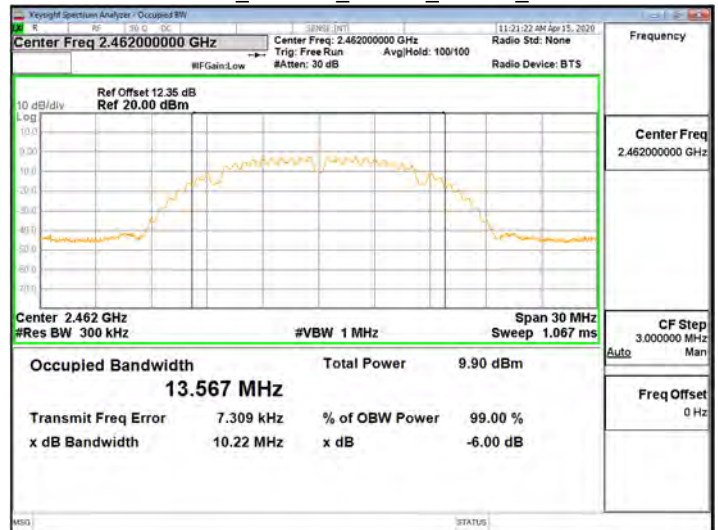
IC OBW 99%_802.11b_20MHz_Chain1_2437MHz



IC OBW 99%_802.11b_20MHz_Chain0_2462MHz



IC OBW 99%_802.11b_20MHz_Chain1_2462MHz

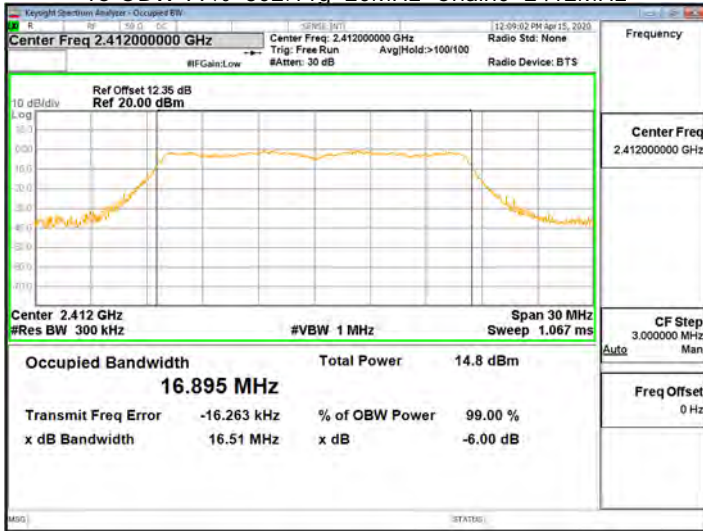


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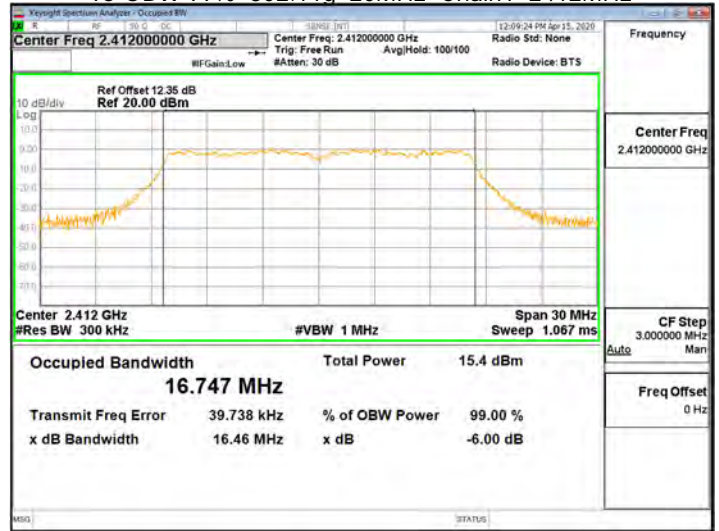
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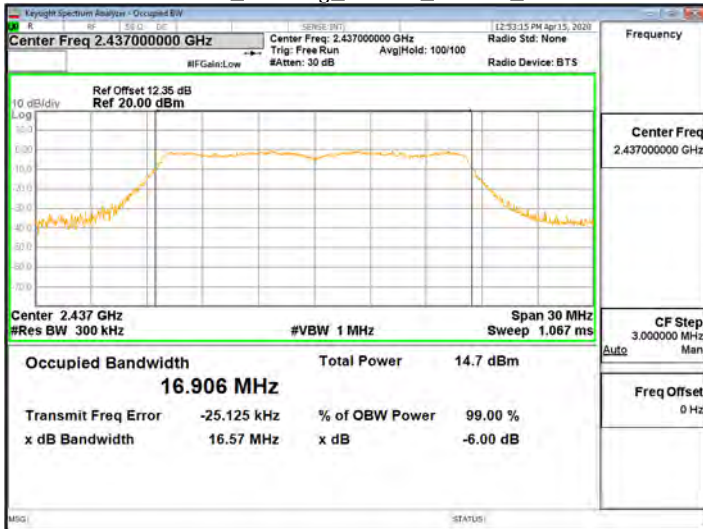
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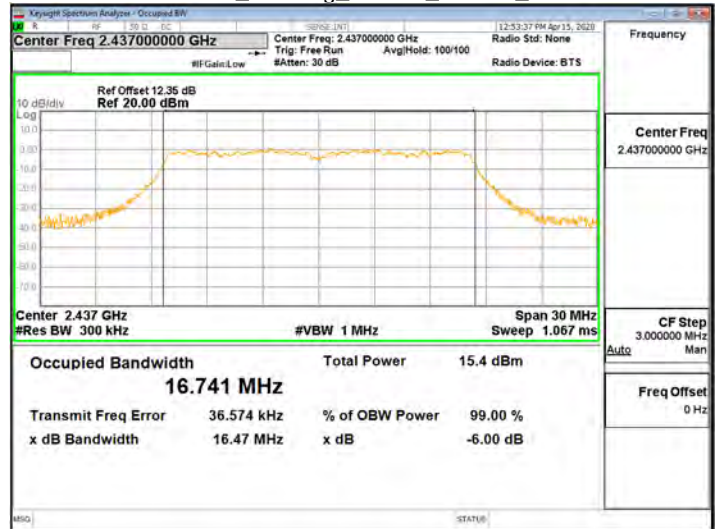
IC OBW 99% 802.11g 20MHz Chain1 2412MHz



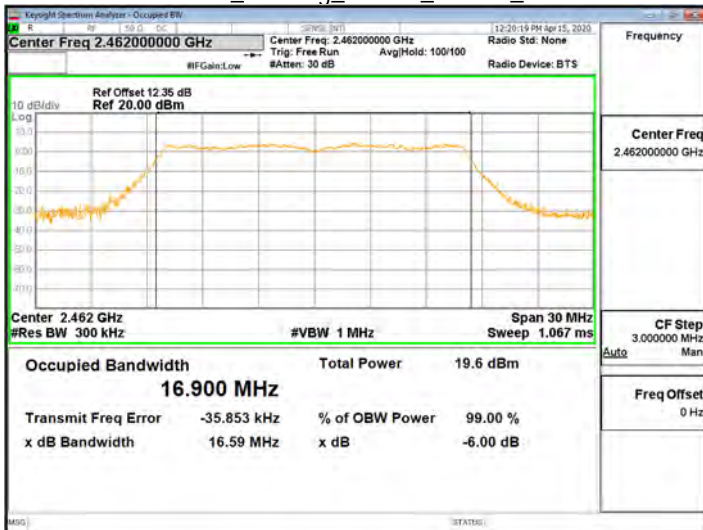
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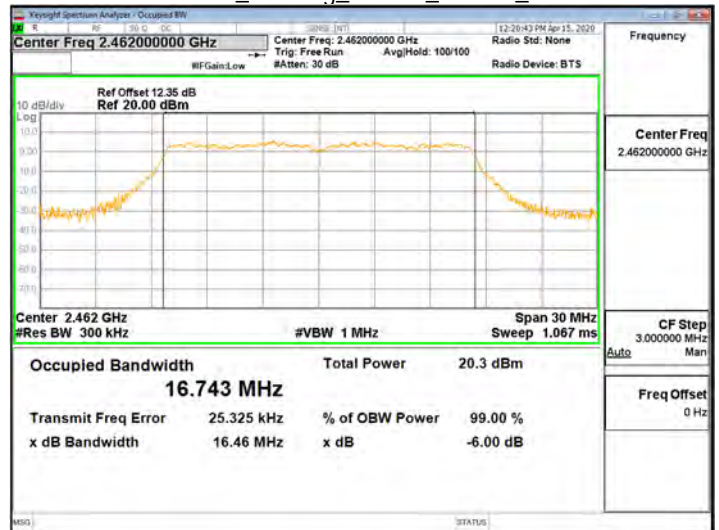
IC OBW 99%_802.11g_20MHz_Chain1_2437MHz



IC OBW 99%_802.11g_20MHz_Chain0_2462MHz



IC OBW 99%_802.11g_20MHz_Chain1_2462MHz

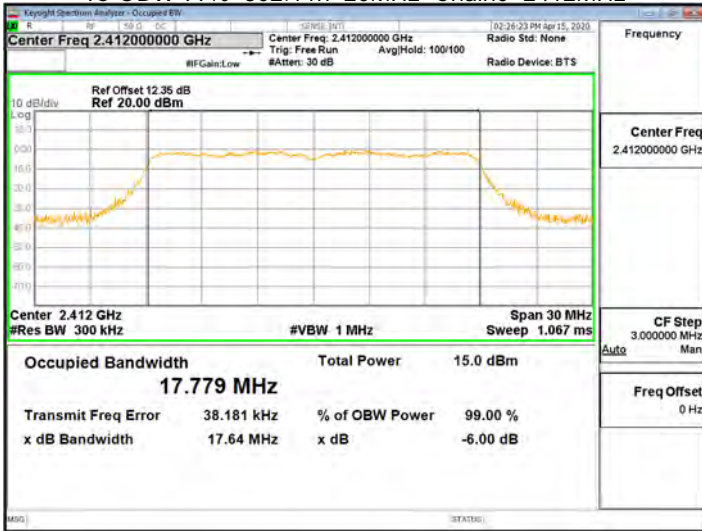


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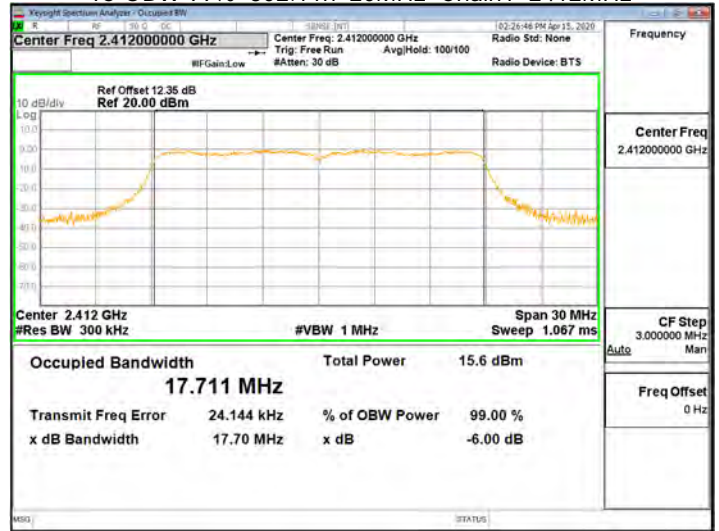
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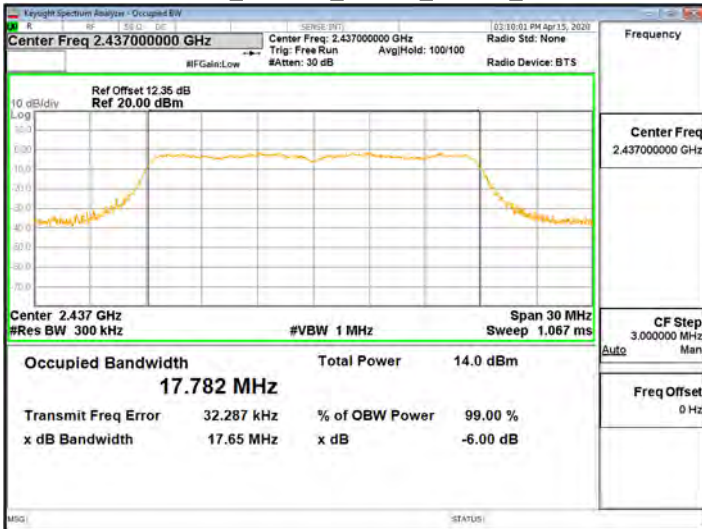
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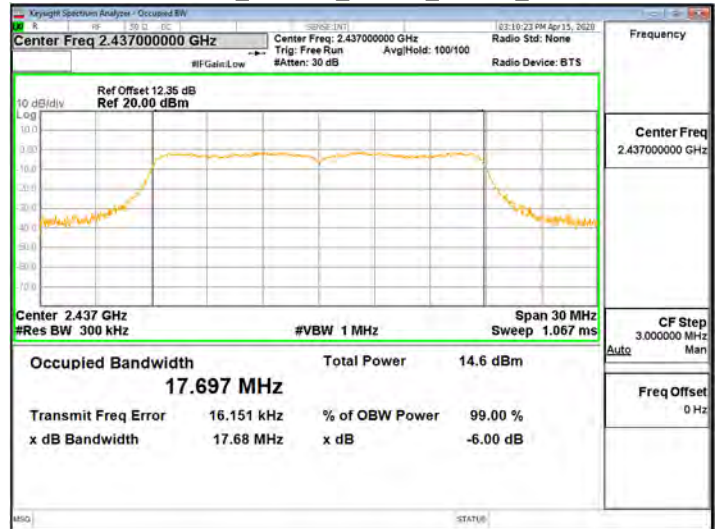
IC OBW 99% 802.11n 20MHz Chain1 2412MHz



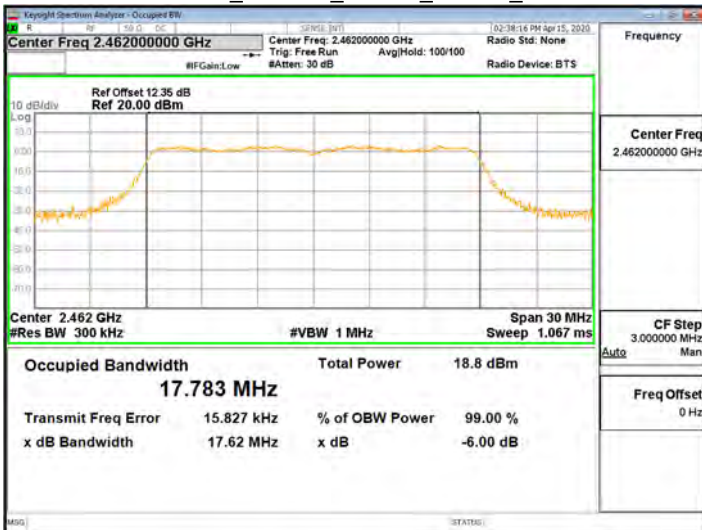
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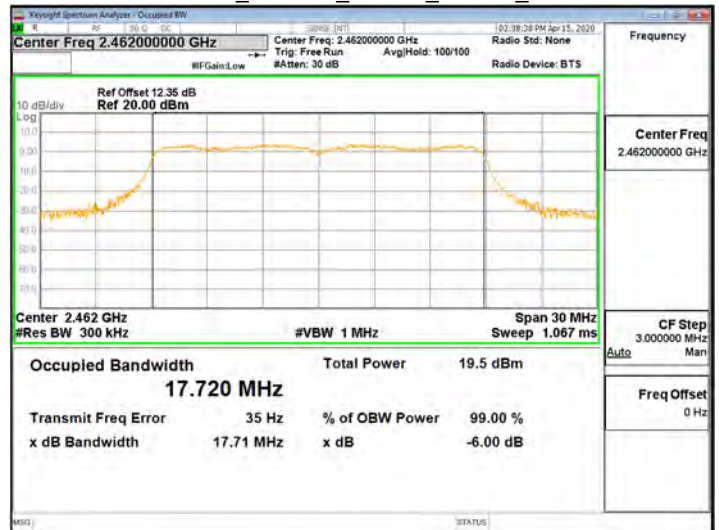
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IC OBW 99%_802.11n_20MHz_Chain0_2462MHz



IC OBW 99%_802.11n_20MHz_Chain1_2462MHz

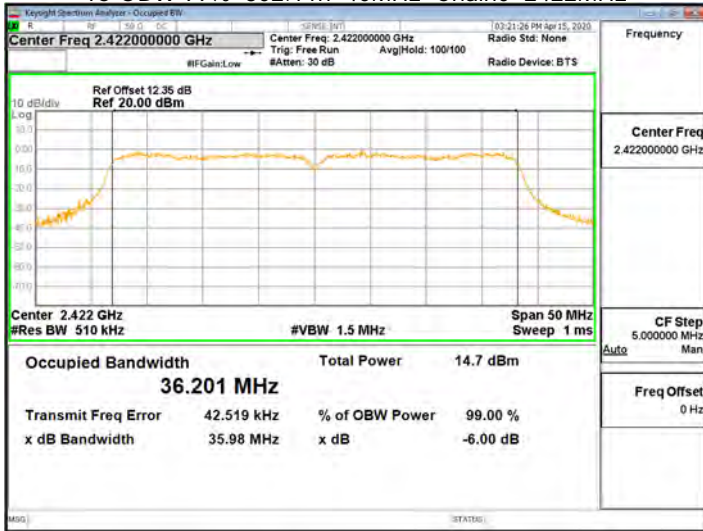


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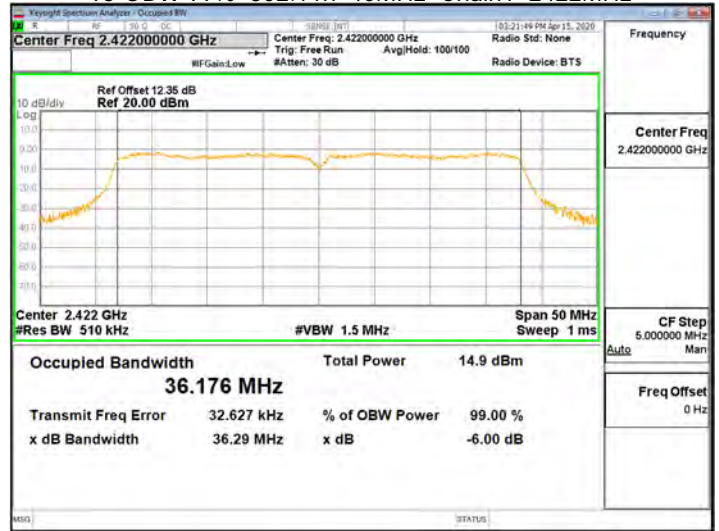
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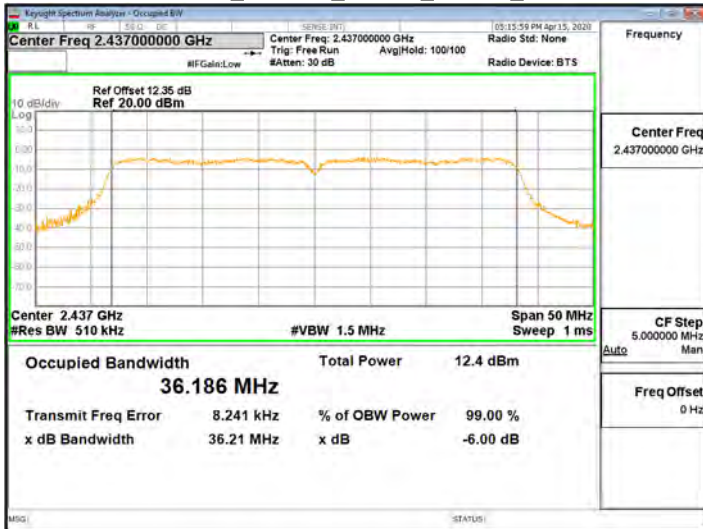
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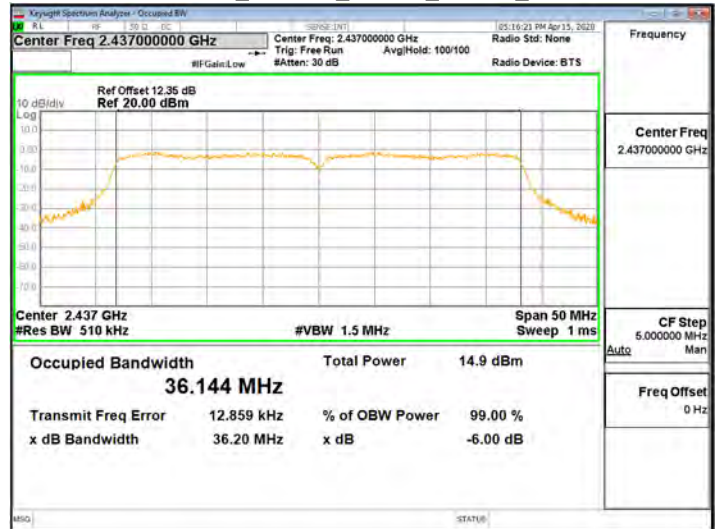
IC OBW 99% 802.11n 40MHz Chain1 2422MHz



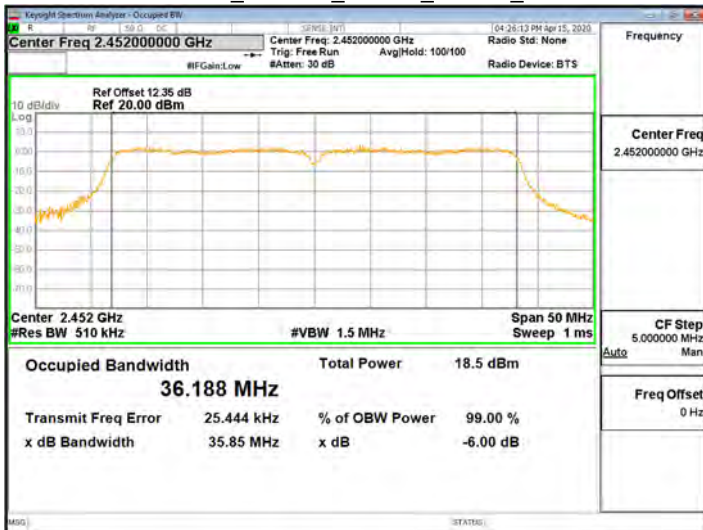
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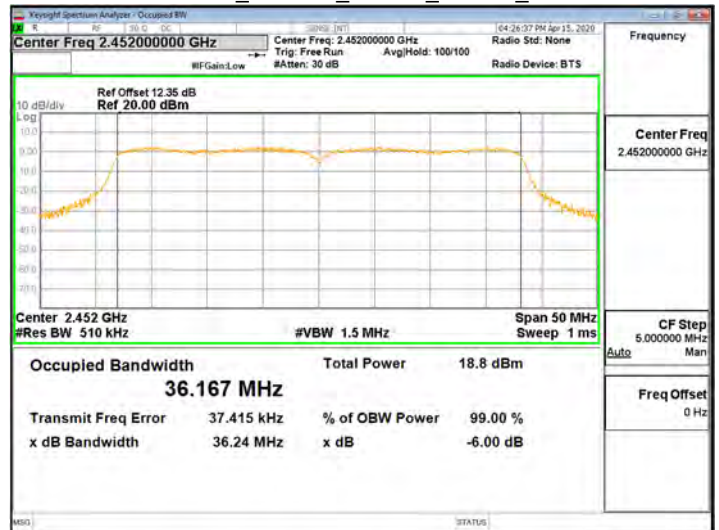
IC OBW 99%_802.11n_40MHz_Chain1_2437MHz



IC OBW 99%_802.11n_40MHz_Chain0_2452MHz



IC OBW 99%_802.11n_40MHz_Chain1_2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

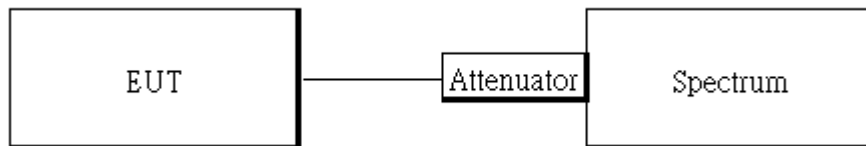
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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. 802.11n 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. N=2 for this given application.

Note:

For the test of PSD at 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.

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	-1.76	-21.76
2437	-0.76	-20.76
2462	0.10	-19.90

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.81	-19.19
2437	-0.17	-20.17
2462	4.64	-15.36

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.81	-19.19
2437	0.80	-19.20
2462	5.67	-14.33

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-2.84	-22.84
2437	-2.77	-22.77
2452	1.13	-18.87

Note

Cable Loss 12.35 dB

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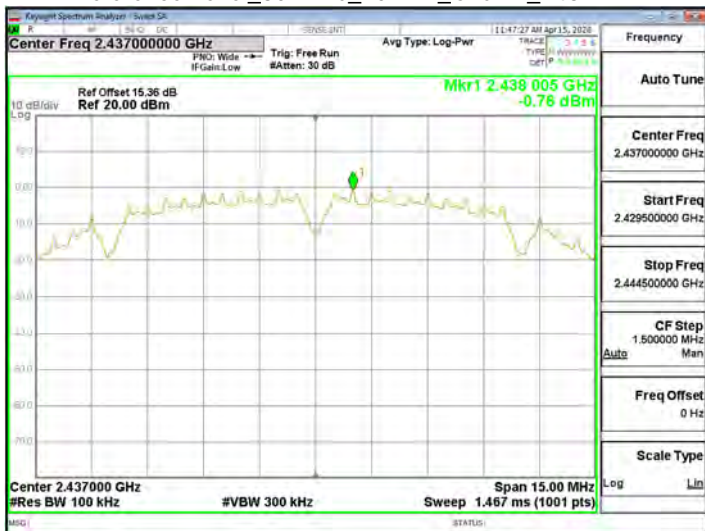
Reference Level_802.11b_20MHz_Chain1_2412MHz



Reference Level 802.11g 20MHz Chain1 2412MHz



Reference Level_802.11b_20MHz_Chain1_2437MHz



Reference Level_802.11g_20MHz_Chain1_2437MHz



Reference Level_802.11b_20MHz_Chain1_2462MHz



Reference Level_802.11g_20MHz_Chain1_2462MHz

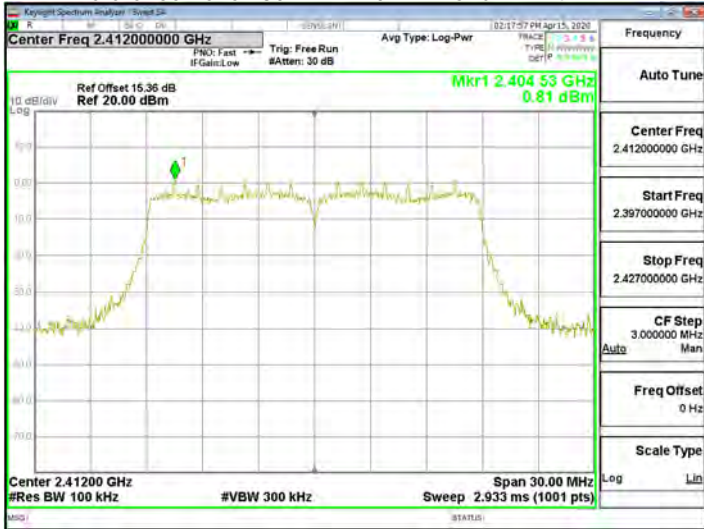


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Reference Level 802.11n 20MHz Chain1 2412MHz



Reference Level 802.11n 40MHz Chain1 2422MHz



Reference Level 802.11n 20MHz Chain1 2437MHz



Reference Level 802.11n 40MHz Chain1 2437MHz



Reference Level 802.11n 20MHz Chain1 2462MHz



Reference Level 802.11n 40MHz Chain1 2452MHz

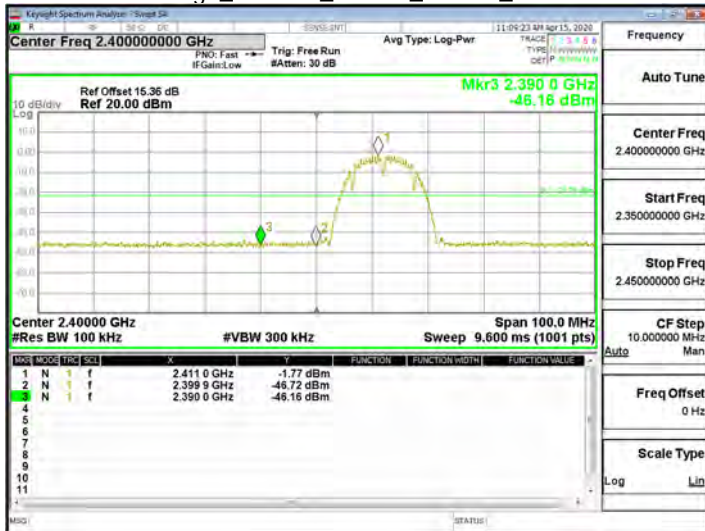


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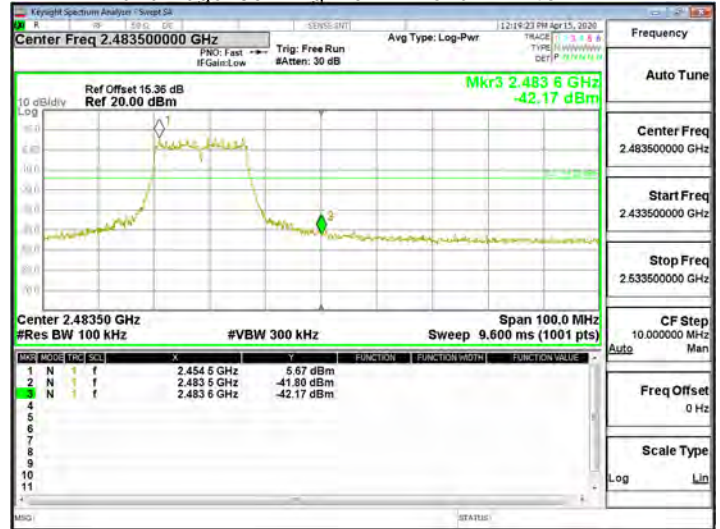
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Band Edge_802.11b_20MHz_Chain1_2412MHz



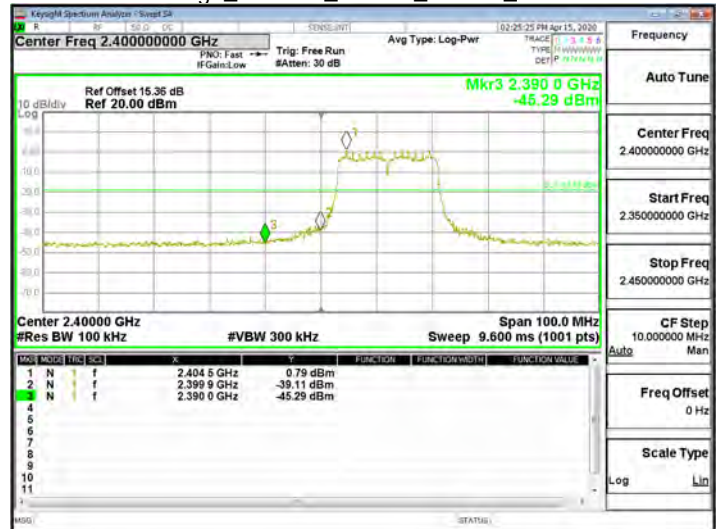
Band Edge 802.11g 20MHz Chain1 2462MHz



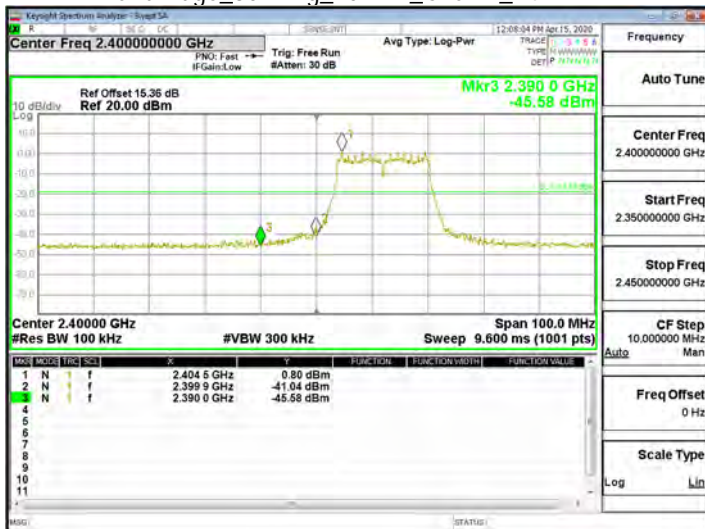
Band Edge_802.11b_20MHz_Chain1_2462MHz



Band Edge_802.11n_20MHz_Chain1_2412MHz



Band Edge_802.11g_20MHz_Chain1_2412MHz



Band Edge_802.11n_20MHz_Chain1_2462MHz



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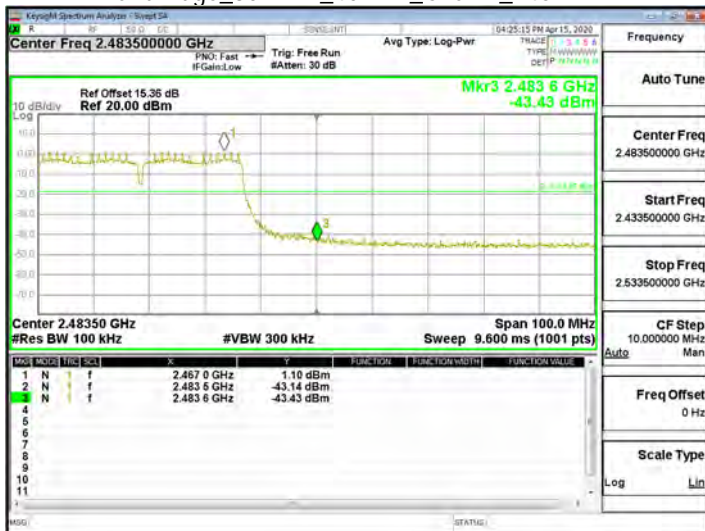
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Band Edge 802.11n 40MHz Chain1 2422MHz



Band Edge_802.11n_40MHz_Chain1_2452MHz



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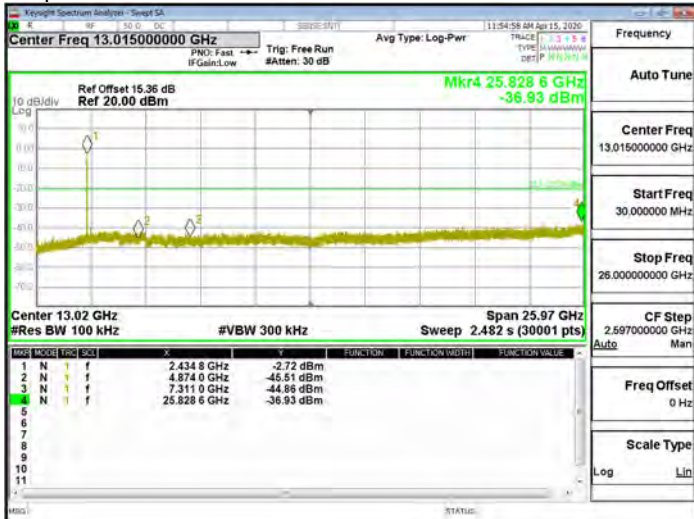
Spurious Emission_802.11b_20MHz_Chain1_2412MHz



Spurious Emission_802.11g_20MHz_Chain1_2412MHz



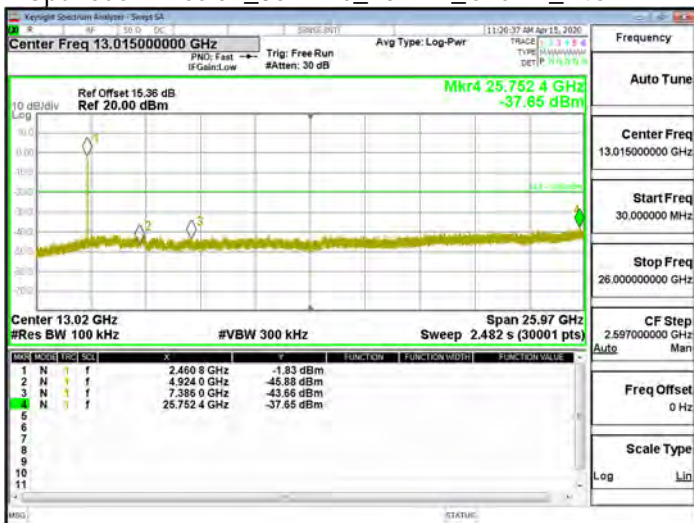
Spurious Emission_802.11b_20MHz_Chain1_2437MHz



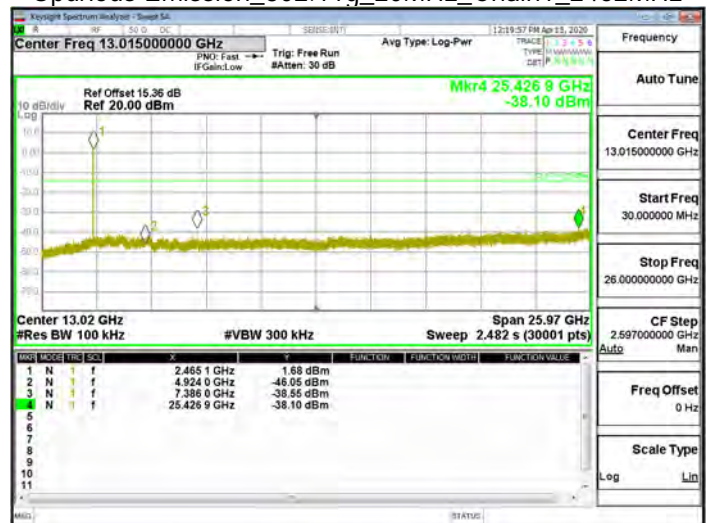
Spurious Emission_802.11g_20MHz_Chain1_2437MHz



Spurious Emission_802.11b_20MHz_Chain1_2462MHz



Spurious Emission_802.11g_20MHz_Chain1_2462MHz

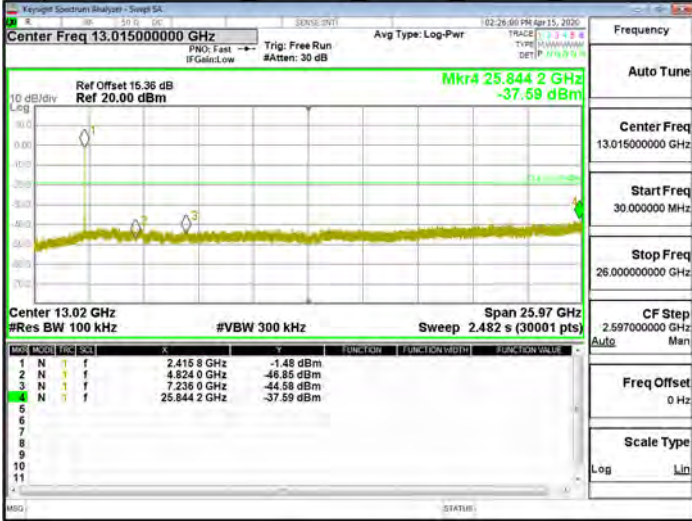


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Spurious Emission 802.11n 20MHz Chain1 2412MHz



Spurious Emission 802.11n 40MHz Chain1 2422MHz



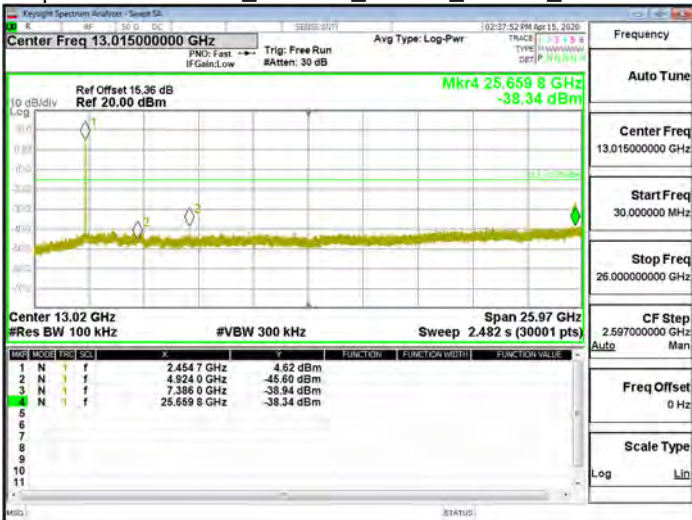
Spurious Emission_802.11n_20MHz_Chain1_2437MHz



Spurious Emission_802.11n_40MHz_Chain1_2437MHz



Spurious Emission_802.11n_20MHz_Chain1_2462MHz



Spurious Emission_802.11n_40MHz_Chain1_2452MHz



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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 and RSS-Gen §8.9 Table 5 and 6 limit as below. And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, 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:

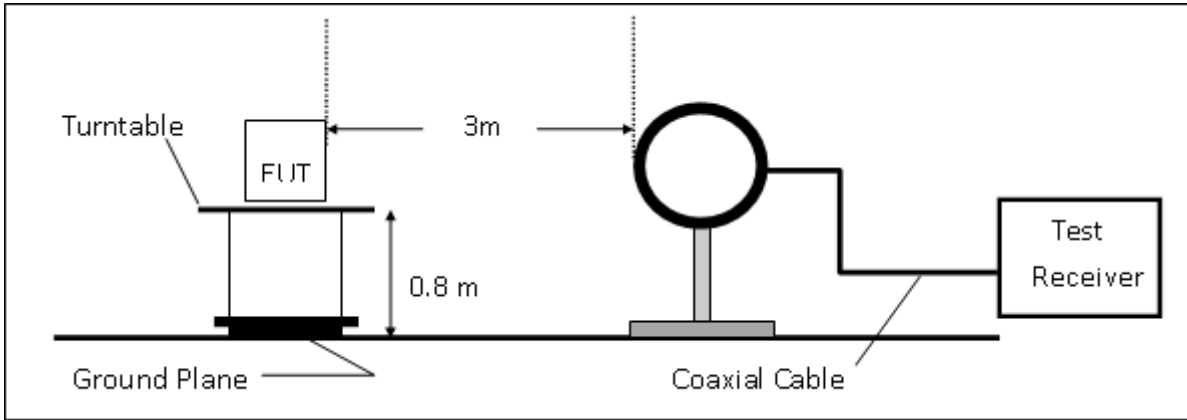
966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2020	01/01/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021

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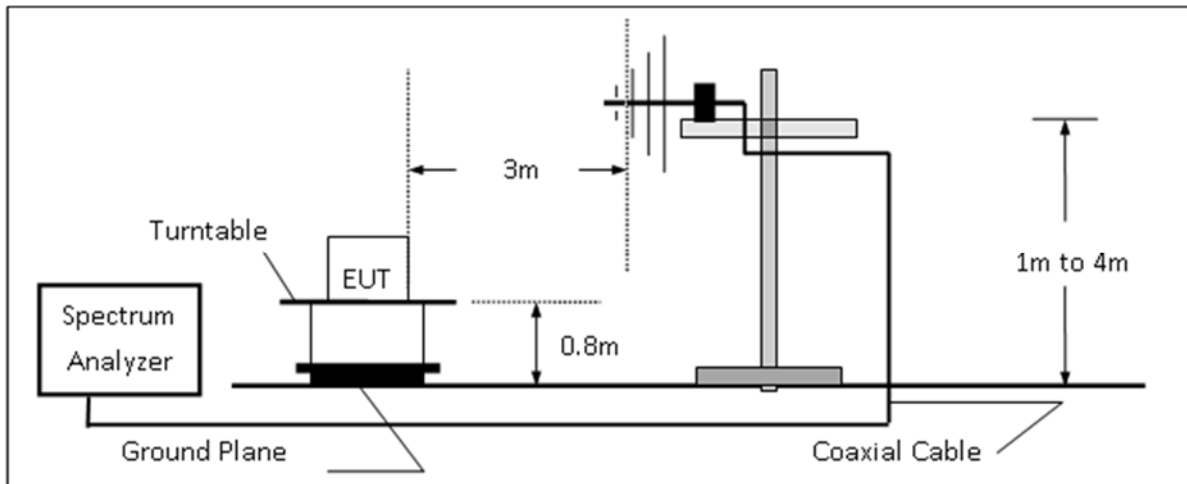
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11.3 Test SET-UP

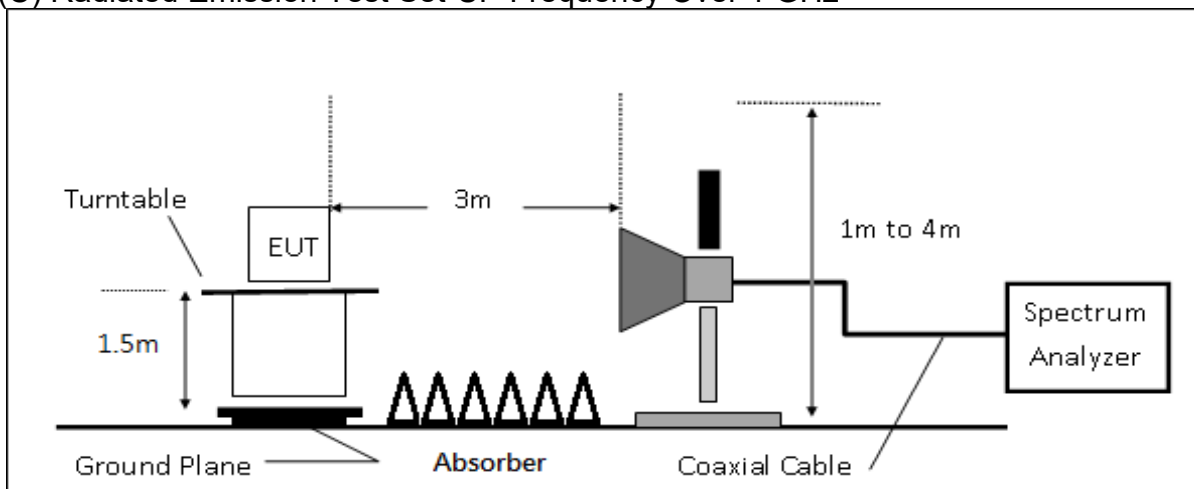
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

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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) & RSS-GEN §6.13.2 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

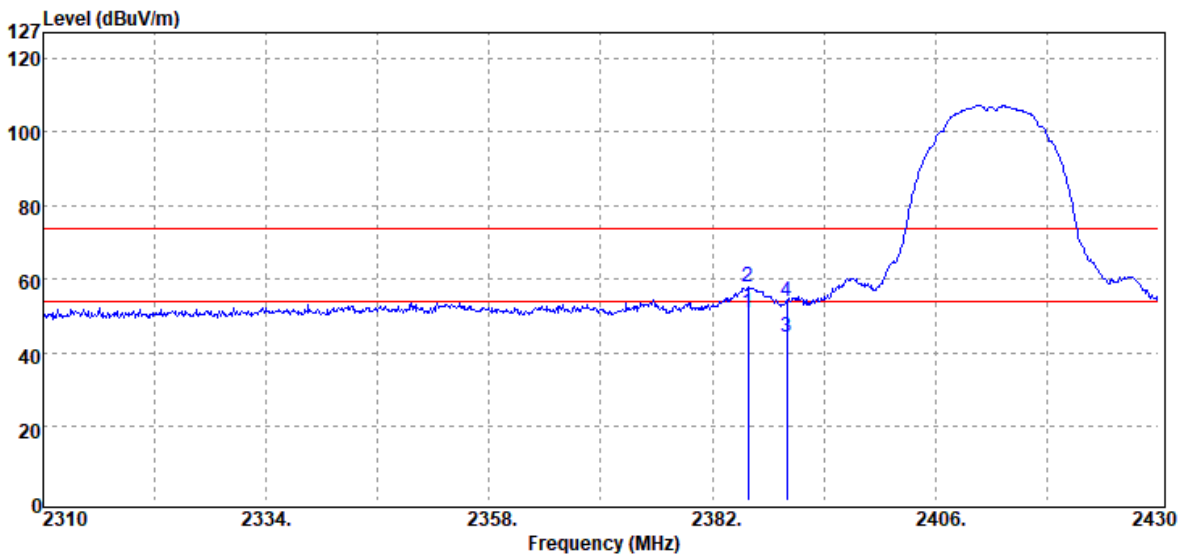
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11.7.1 Radiated Band Edge Measurement Result

Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



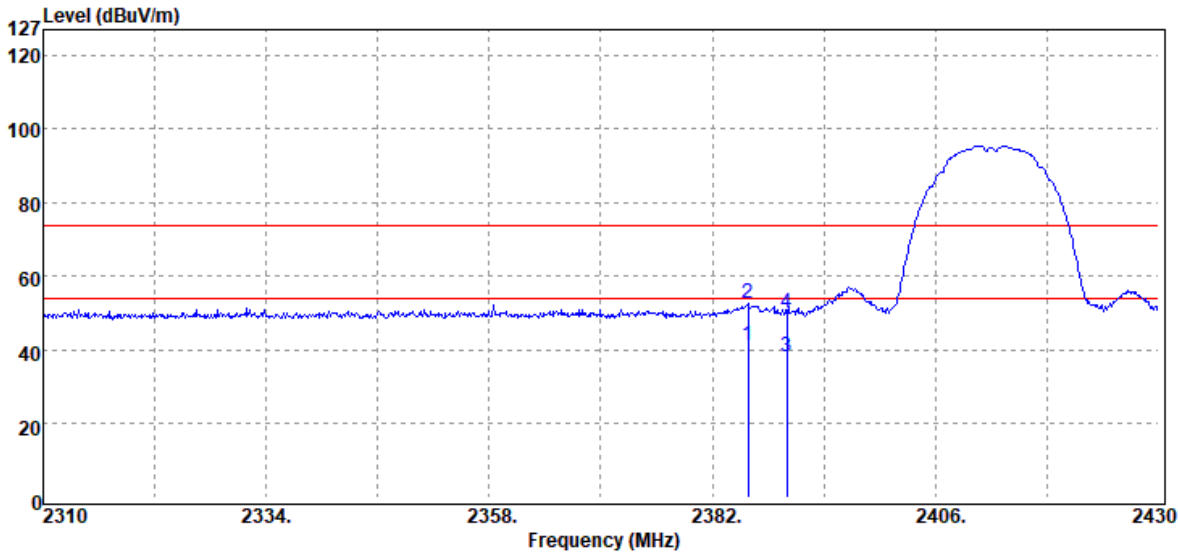
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2385.84	Average	43.41	7.47	50.88	54.00	-3.12
2385.84	Peak	50.45	7.47	57.92	74.00	-16.08
2390.00	Average	36.71	7.46	44.17	54.00	-9.83
2390.00	Peak	46.39	7.46	53.85	74.00	-20.15

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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



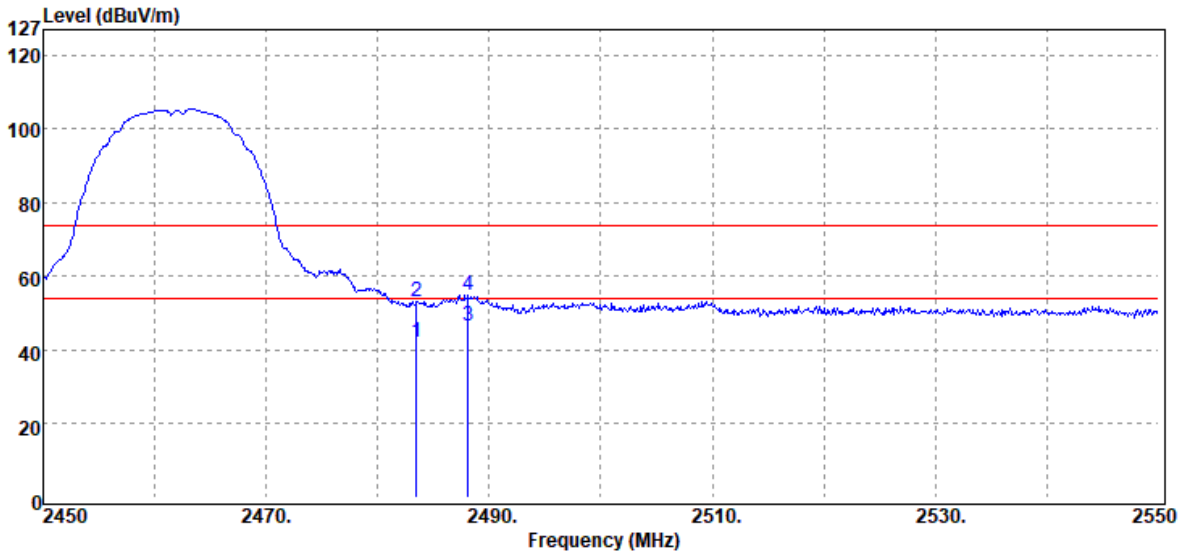
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2385.84	Average	33.91	7.47	41.38	54.00	-12.62
2385.84	Peak	45.23	7.47	52.70	74.00	-21.30
2390.00	Average	30.76	7.46	38.22	54.00	-15.78
2390.00	Peak	42.61	7.46	50.07	74.00	-23.93

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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



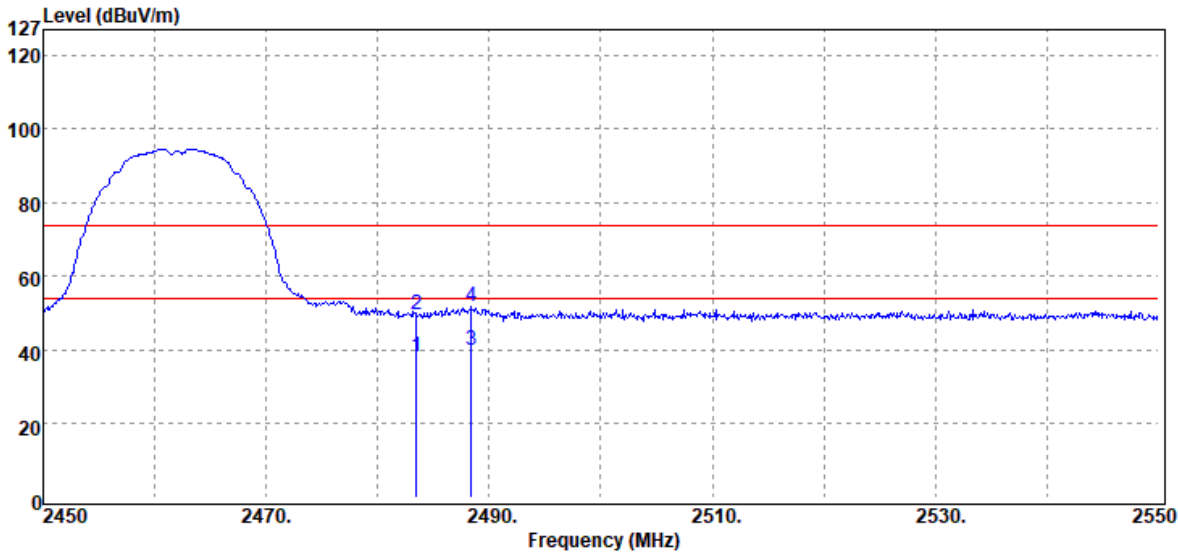
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	34.52	7.46	41.98	54.00	-12.02
2483.50	Peak	45.50	7.46	52.96	74.00	-21.04
2488.10	Average	39.02	7.46	46.48	54.00	-7.52
2488.10	Peak	47.42	7.46	54.88	74.00	-19.12

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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



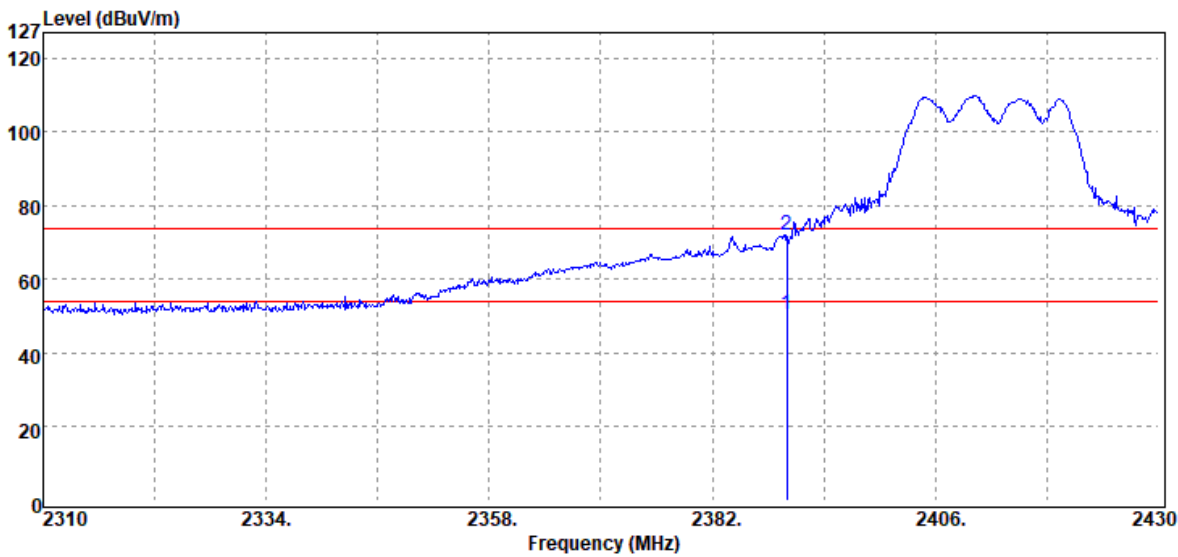
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	30.69	7.46	38.15	54.00	-15.85
2483.50	Peak	42.36	7.46	49.82	74.00	-24.18
2488.40	Average	32.44	7.46	39.90	54.00	-14.10
2488.40	Peak	44.32	7.46	51.78	74.00	-22.22

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



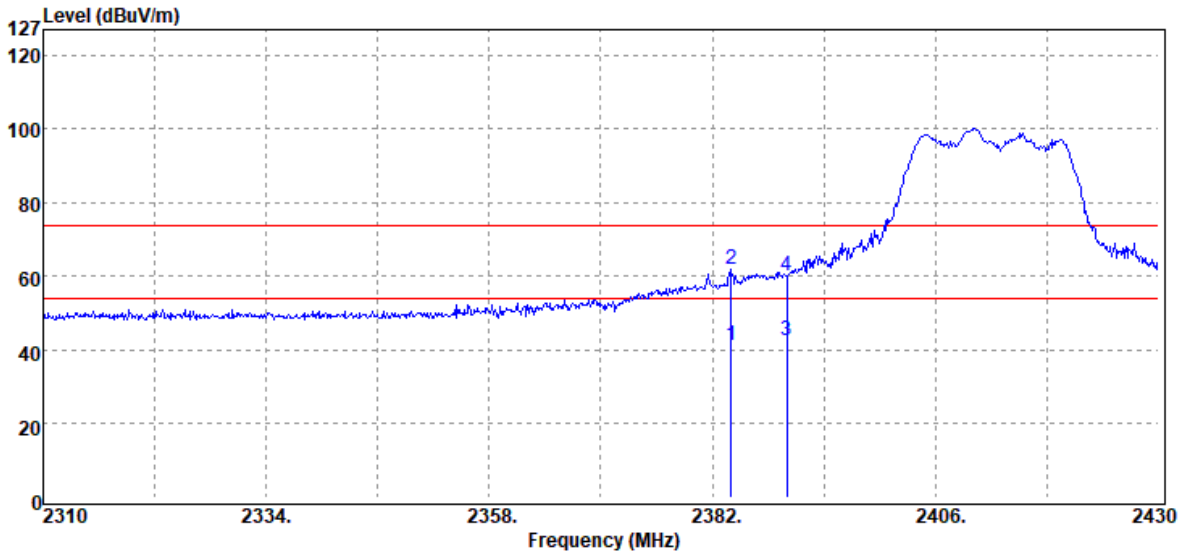
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	43.21	7.46	50.67	54.00	-3.33
2390.00	Peak	64.54	7.46	72.00	74.00	-2.00

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



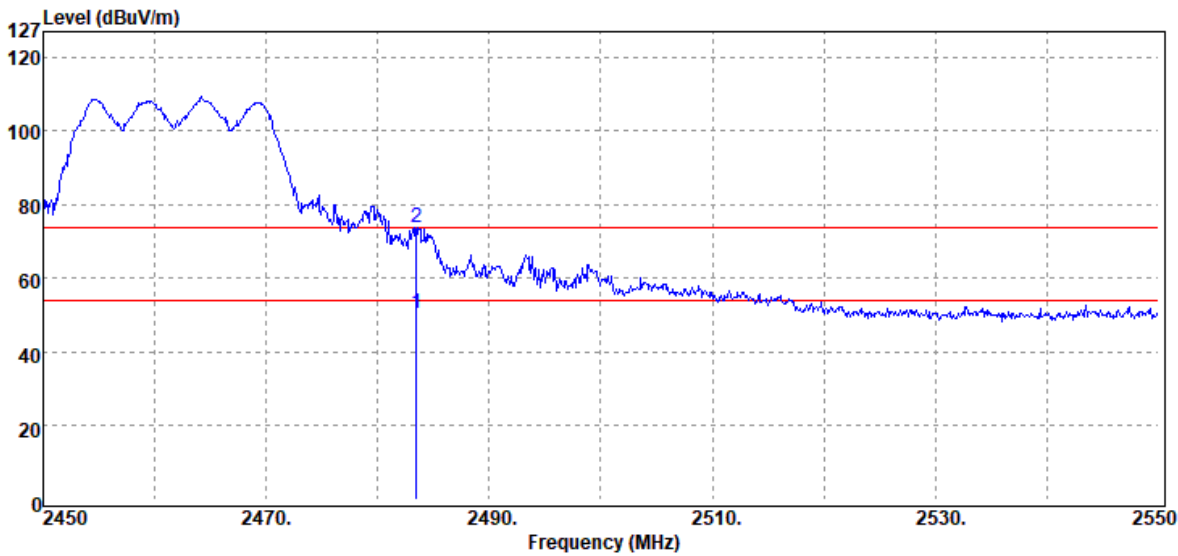
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2384.04	Average	33.71	7.49	41.20	54.00	-12.80
2384.04	Peak	54.52	7.49	62.01	74.00	-11.99
2390.00	Average	35.09	7.46	42.55	54.00	-11.45
2390.00	Peak	52.72	7.46	60.18	74.00	-13.82

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



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
2483.50	Average	42.87	7.46	50.33	54.00	-3.67
2483.50	Peak	66.31	7.46	73.77	74.00	-0.23

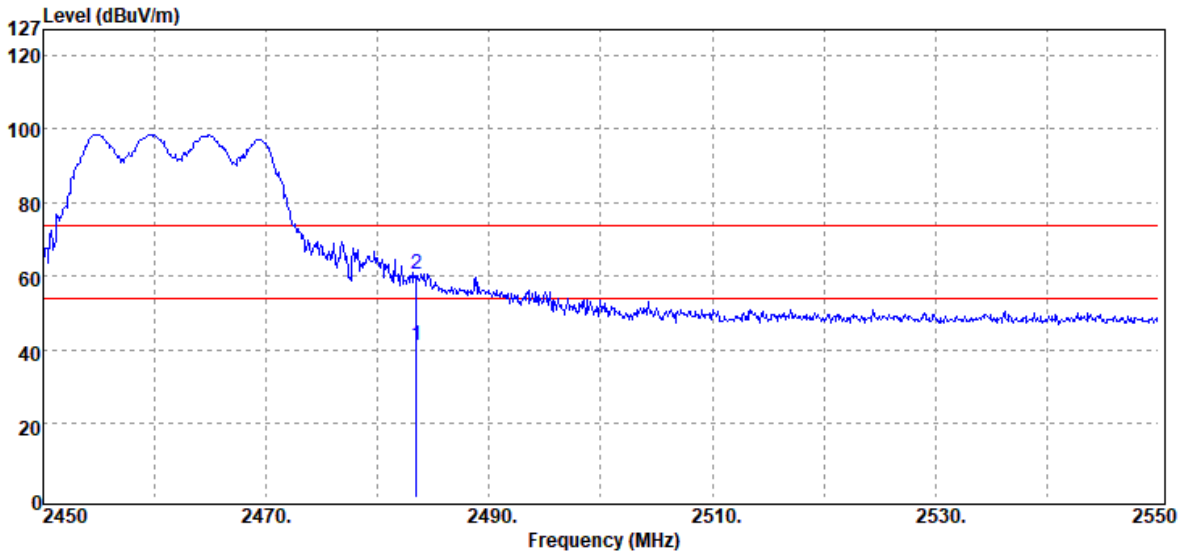
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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



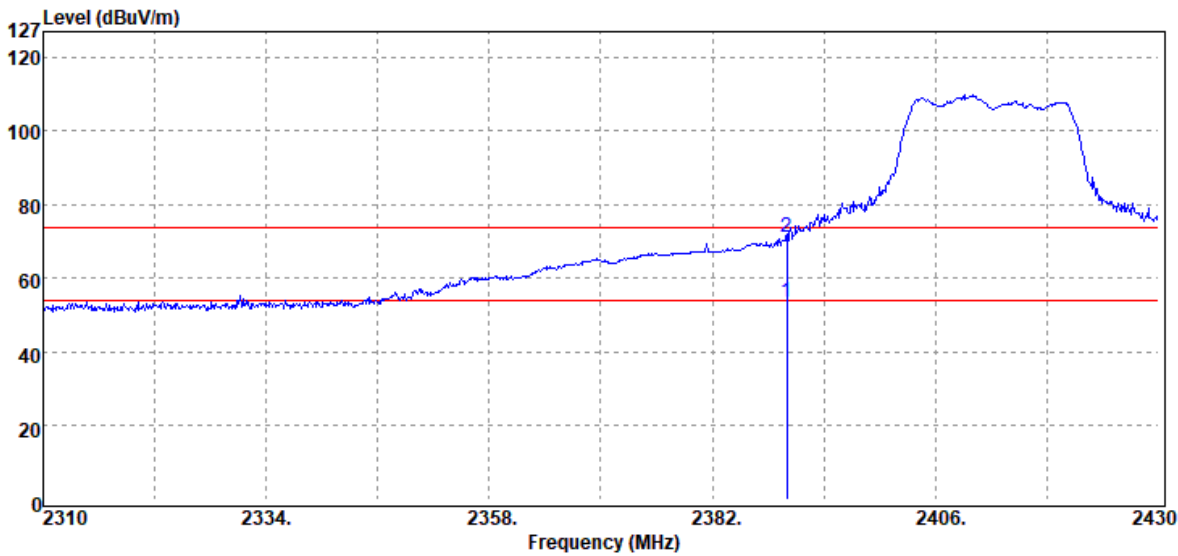
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	33.92	7.46	41.38	54.00	-12.62
2483.50	Peak	53.37	7.46	60.83	74.00	-13.17

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



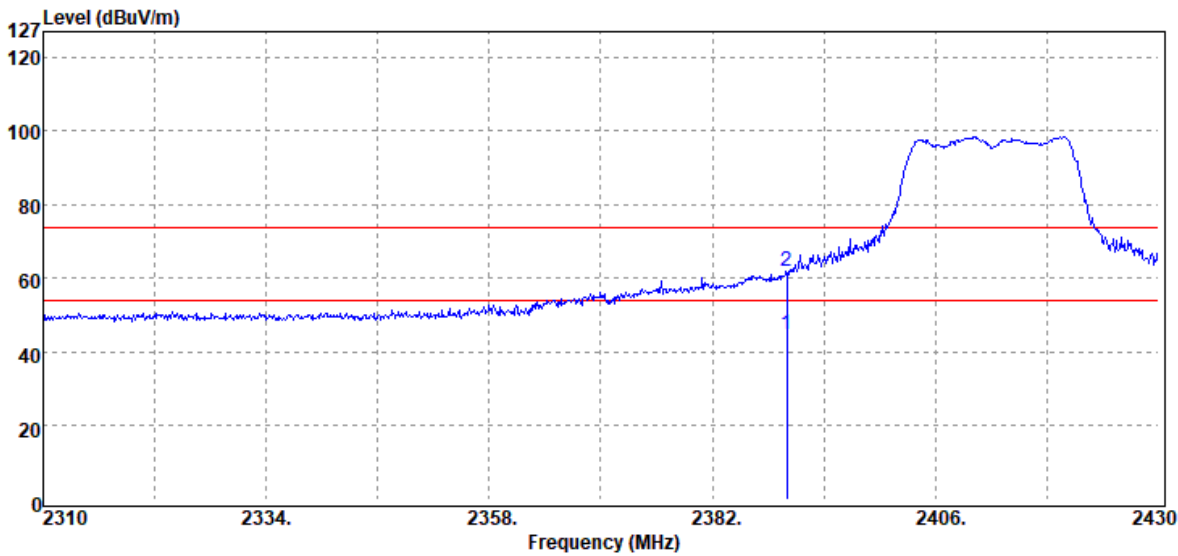
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	46.13	7.46	53.59	54.00	-0.41
2390.00	Peak	63.57	7.46	71.03	74.00	-2.97

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



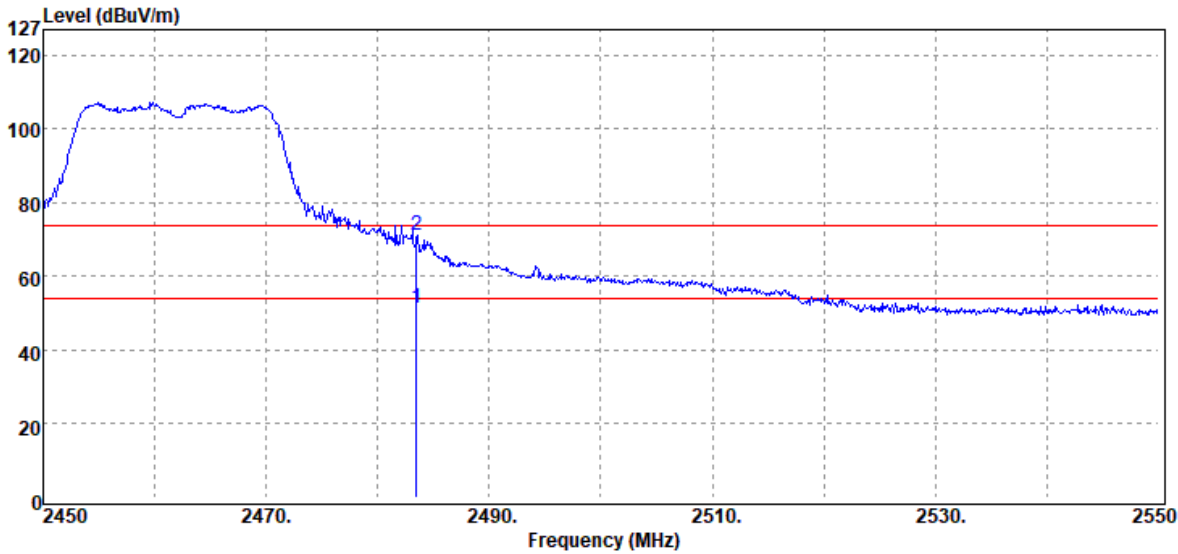
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.23	7.46	44.69	54.00	-9.31
2390.00	Peak	54.61	7.46	62.07	74.00	-11.93

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



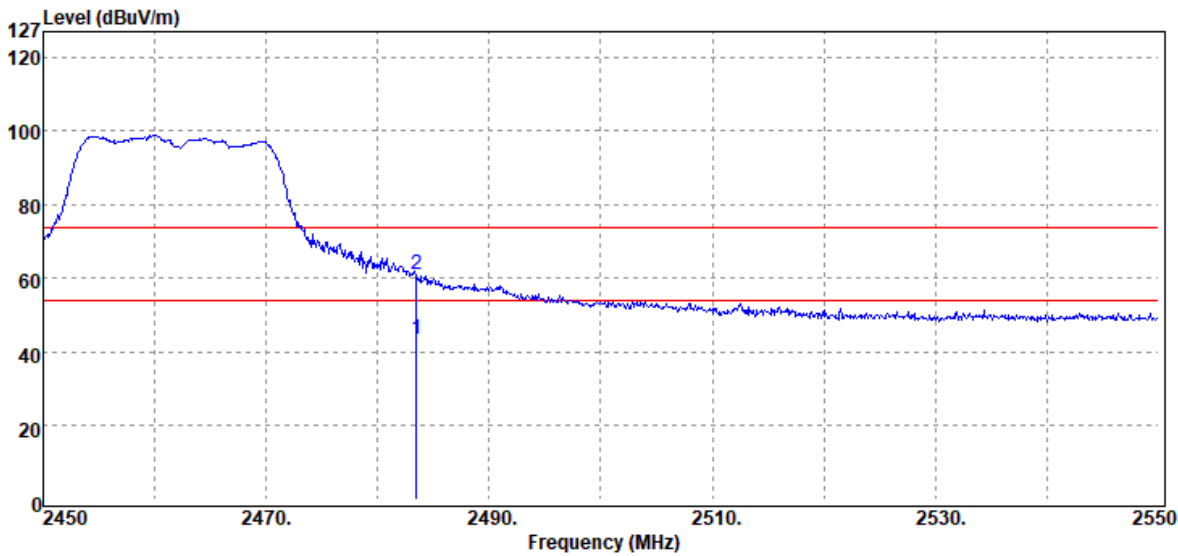
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.79	7.46	51.25	54.00	-2.75
2483.50	Peak	63.53	7.46	70.99	74.00	-3.01

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-03-31
 Temp./Humi. :23.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



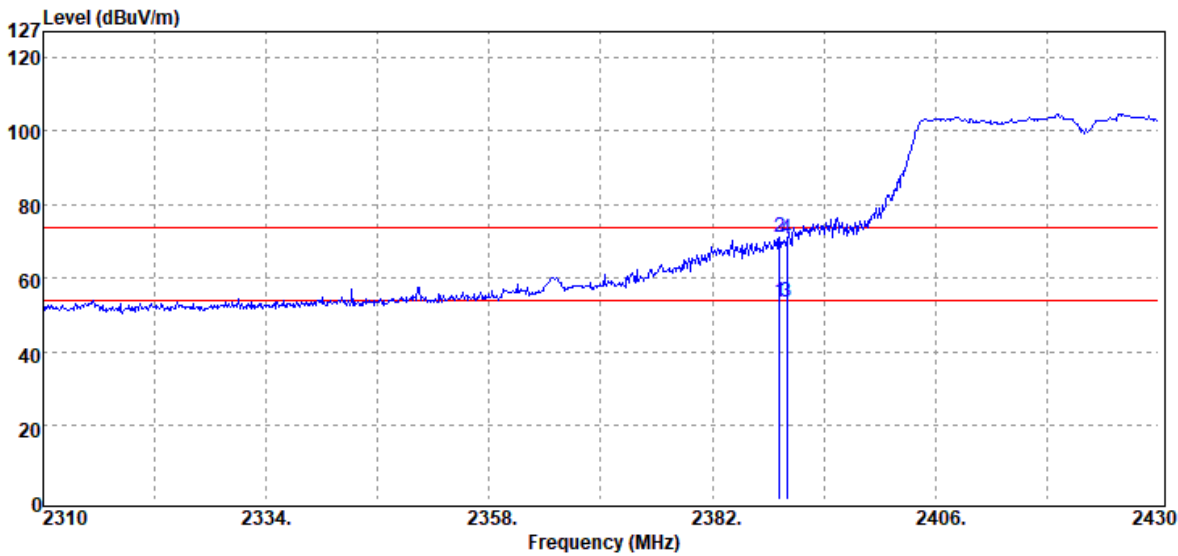
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.00	7.46	43.46	54.00	-10.54
2483.50	Peak	53.68	7.46	61.14	74.00	-12.86

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-04-01
 Temp./Humi. :22.8/66
 Antenna Pol. :VERTICAL
 Engineer :Neo



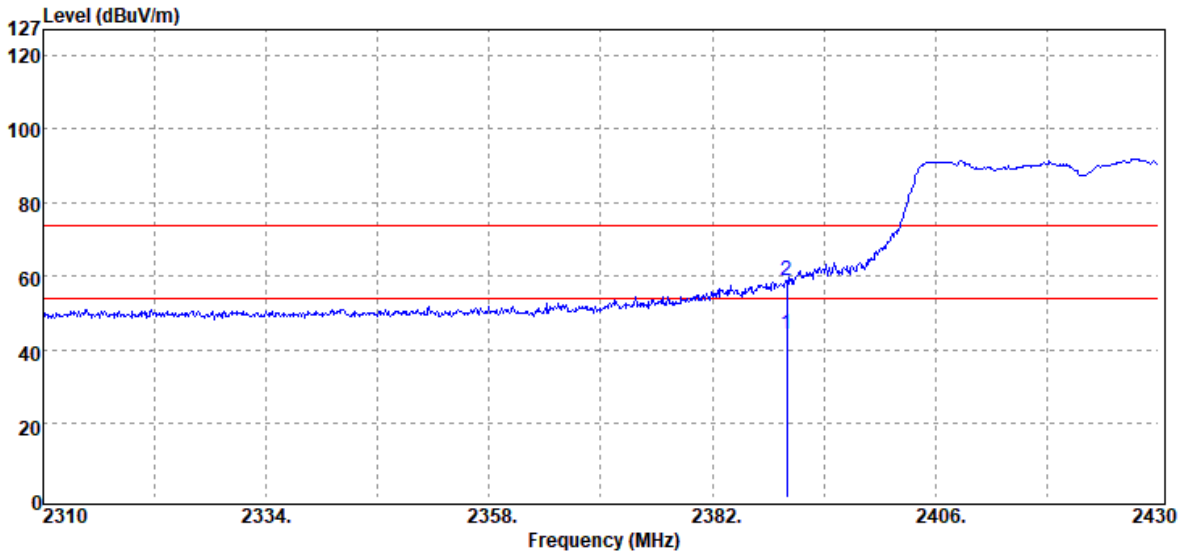
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.20	Average	46.14	7.45	53.59	54.00	-0.41
2389.20	Peak	63.66	7.45	71.11	74.00	-2.89
2390.00	Average	46.23	7.46	53.69	54.00	-0.31
2390.00	Peak	63.32	7.46	70.78	74.00	-3.22

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-04-01
 Temp./Humi. :22.8/66
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



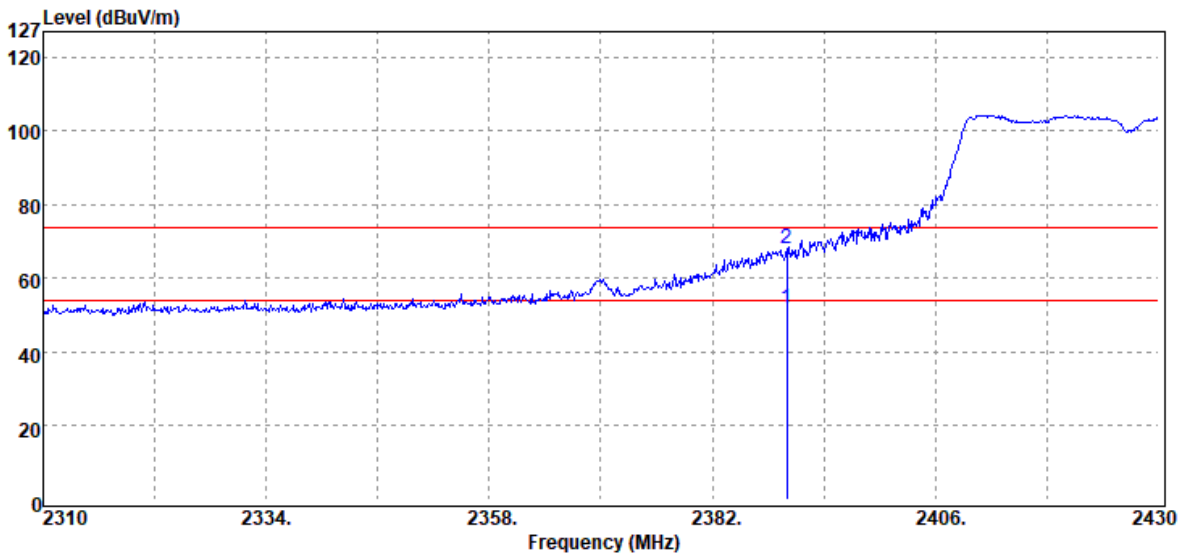
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	36.89	7.46	44.35	54.00	-9.65
2390.00	Peak	51.64	7.46	59.10	74.00	-14.90

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



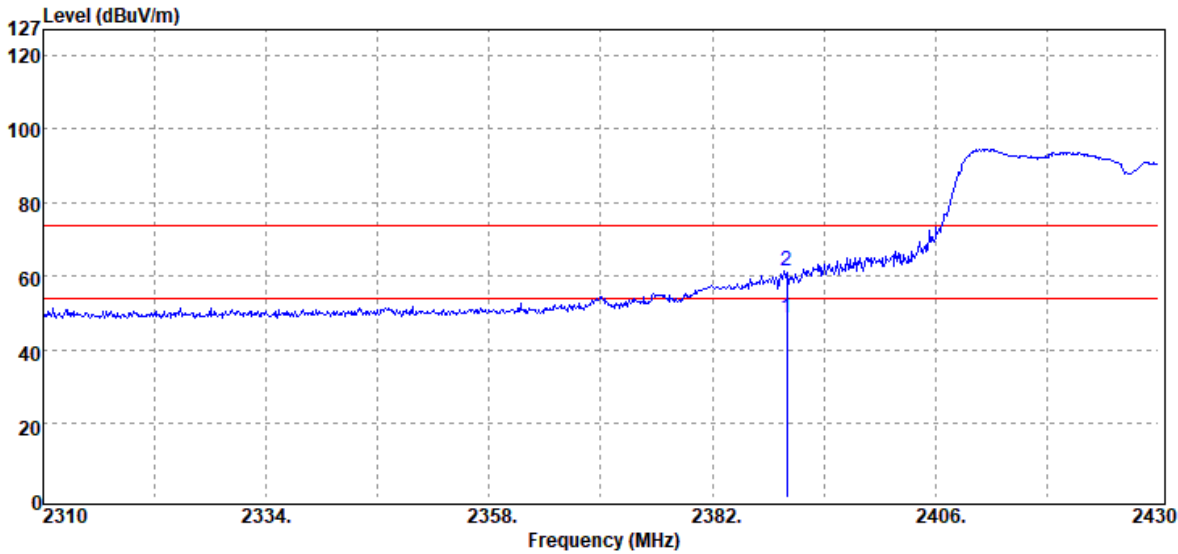
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.26	7.46	51.72	54.00	-2.28
2390.00	Peak	60.48	7.46	67.94	74.00	-6.06

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



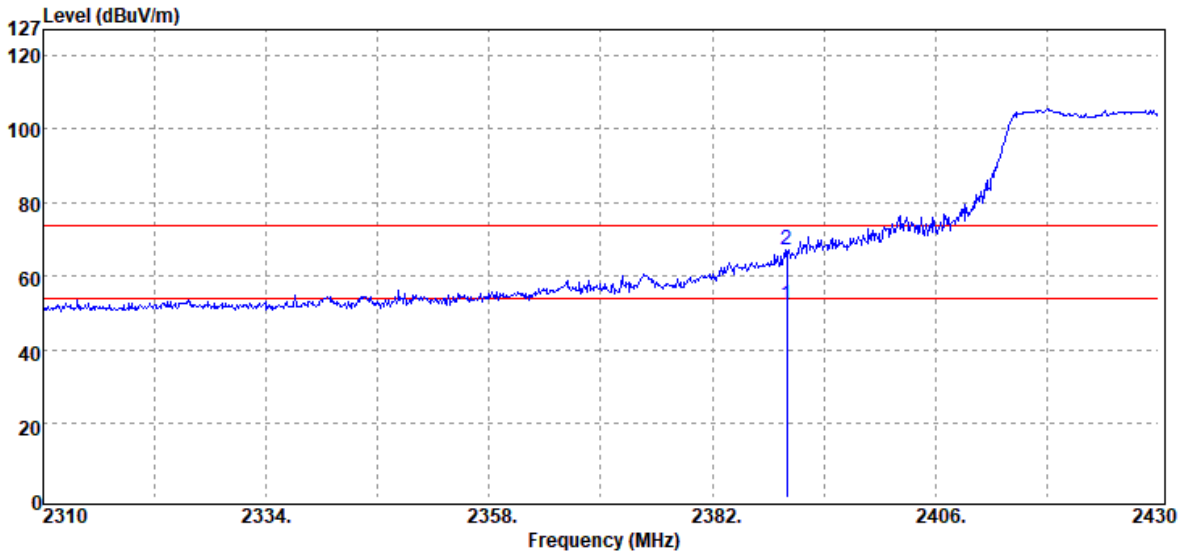
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	41.13	7.46	48.59	54.00	-5.41
2390.00	Peak	53.85	7.46	61.31	74.00	-12.69

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



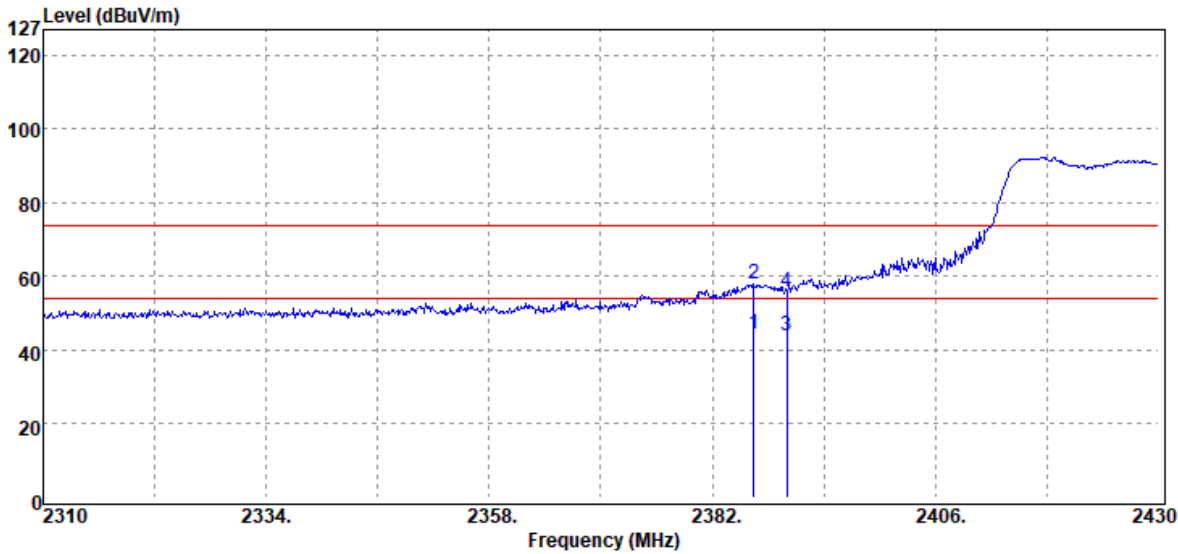
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.72	7.46	52.18	54.00	-1.82
2390.00	Peak	59.62	7.46	67.08	74.00	-6.92

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



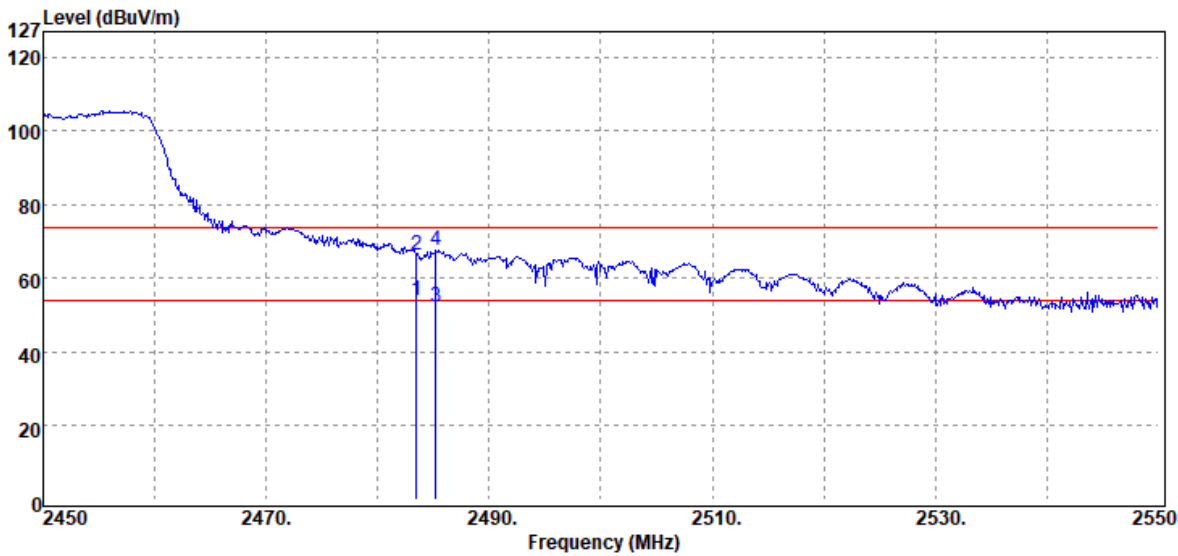
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.44	Average	37.12	7.47	44.59	54.00	-9.41
2386.44	Peak	50.54	7.47	58.01	74.00	-15.99
2390.00	Average	36.61	7.46	44.07	54.00	-9.93
2390.00	Peak	48.41	7.46	55.87	74.00	-18.13

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



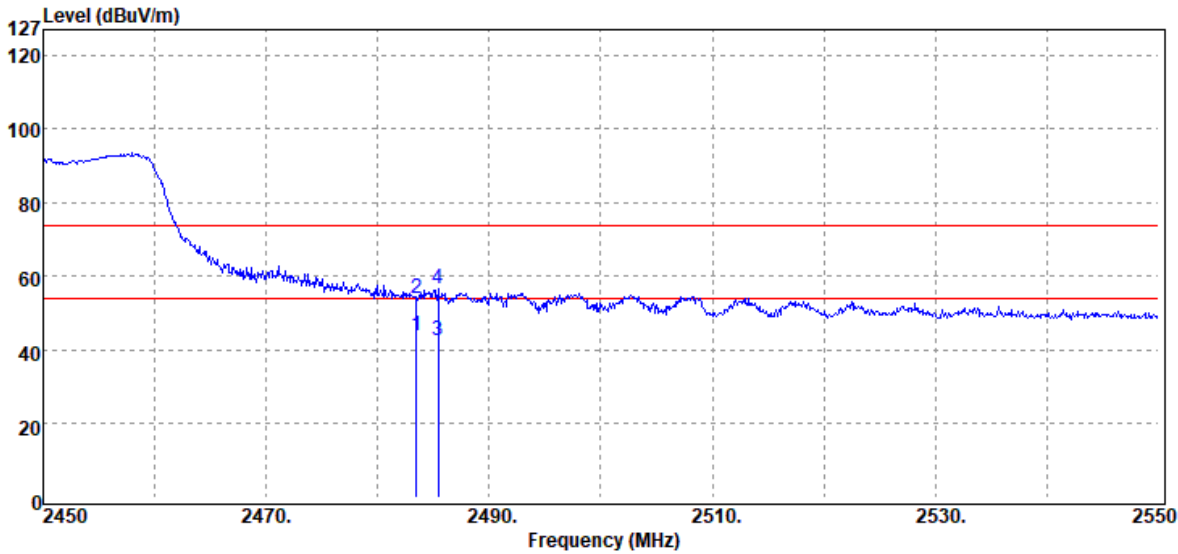
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.37	7.46	53.83	54.00	-0.17
2483.50	Peak	58.85	7.46	66.31	74.00	-7.69
2485.20	Average	44.97	7.46	52.43	54.00	-1.57
2485.20	Peak	60.34	7.46	67.80	74.00	-6.20

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



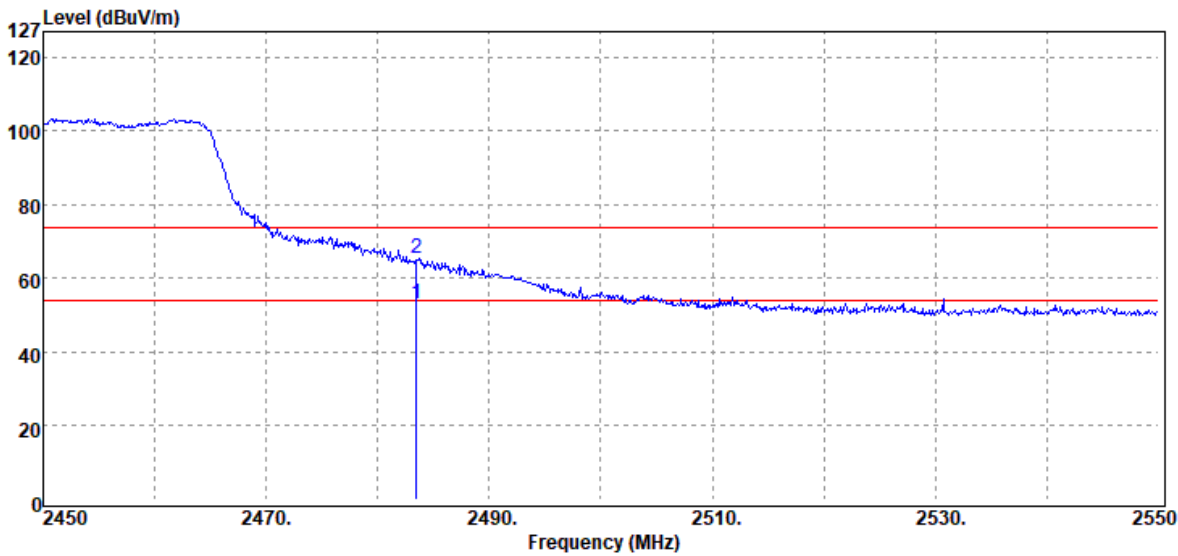
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.54	7.46	44.00	54.00	-10.00
2483.50	Peak	46.62	7.46	54.08	74.00	-19.92
2485.40	Average	35.13	7.46	42.59	54.00	-11.41
2485.40	Peak	49.17	7.46	56.63	74.00	-17.37

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



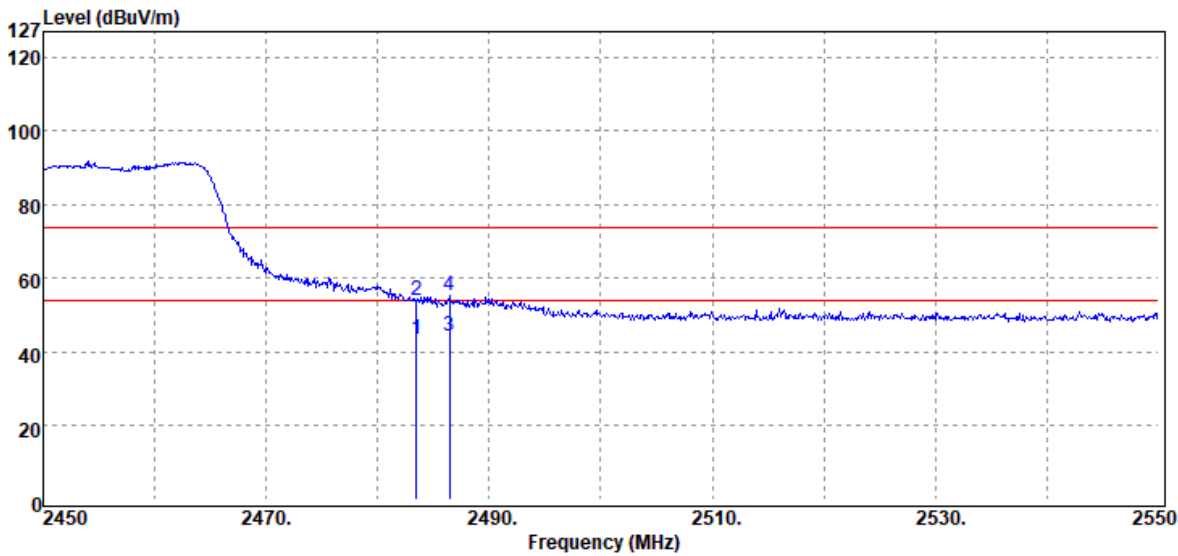
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.52	7.46	52.98	54.00	-1.02
2483.50	Peak	58.02	7.46	65.48	74.00	-8.52

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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
2483.50	Average	36.04	7.46	43.50	54.00	-10.50
2483.50	Peak	46.71	7.46	54.17	74.00	-19.83
2486.40	Average	37.11	7.46	44.57	54.00	-9.43
2486.40	Peak	47.96	7.46	55.42	74.00	-18.58

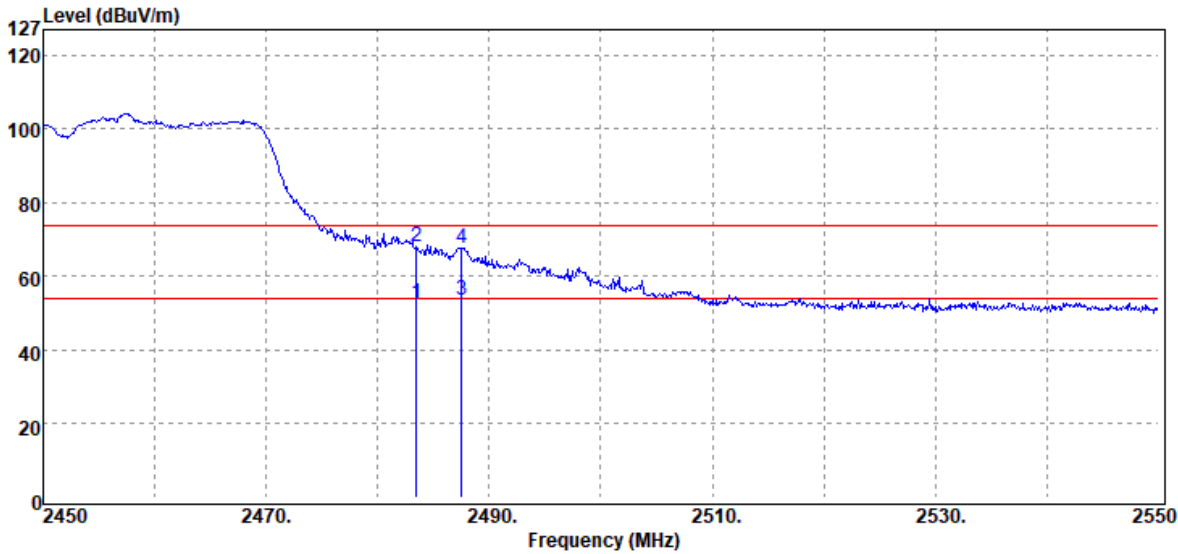
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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



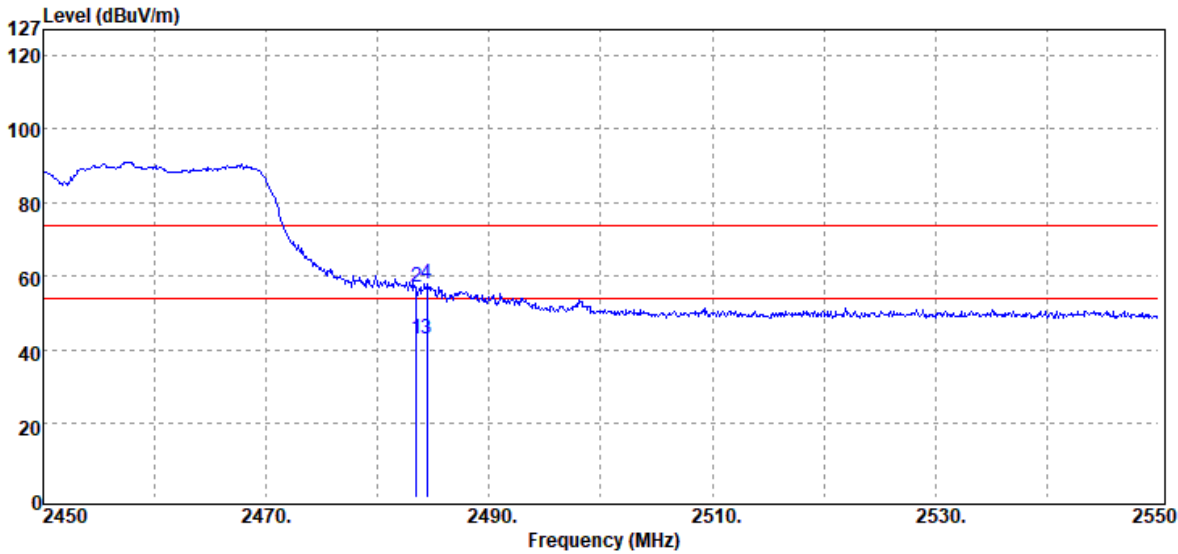
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.23	7.46	52.69	54.00	-1.31
2483.50	Peak	60.70	7.46	68.16	74.00	-5.84
2487.50	Average	46.16	7.46	53.62	54.00	-0.38
2487.50	Peak	60.36	7.46	67.82	74.00	-6.18

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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
2483.50	Average	35.44	7.46	42.90	54.00	-11.10
2483.50	Peak	49.61	7.46	57.07	74.00	-16.93
2484.40	Average	35.65	7.46	43.11	54.00	-10.89
2484.40	Peak	50.42	7.46	57.88	74.00	-16.12

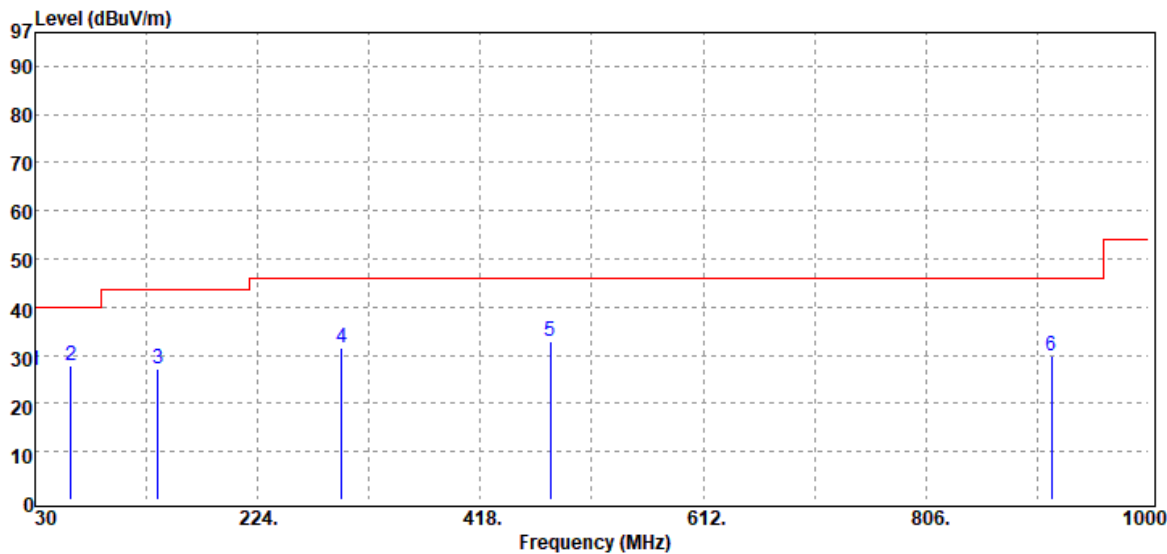
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11.7.2 Below 1GHz Worst-Case Emission:

Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH Mid
 EUT Pol :H Plane

Test Date :2020-04-09
 Temp./Humi. :21.6/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



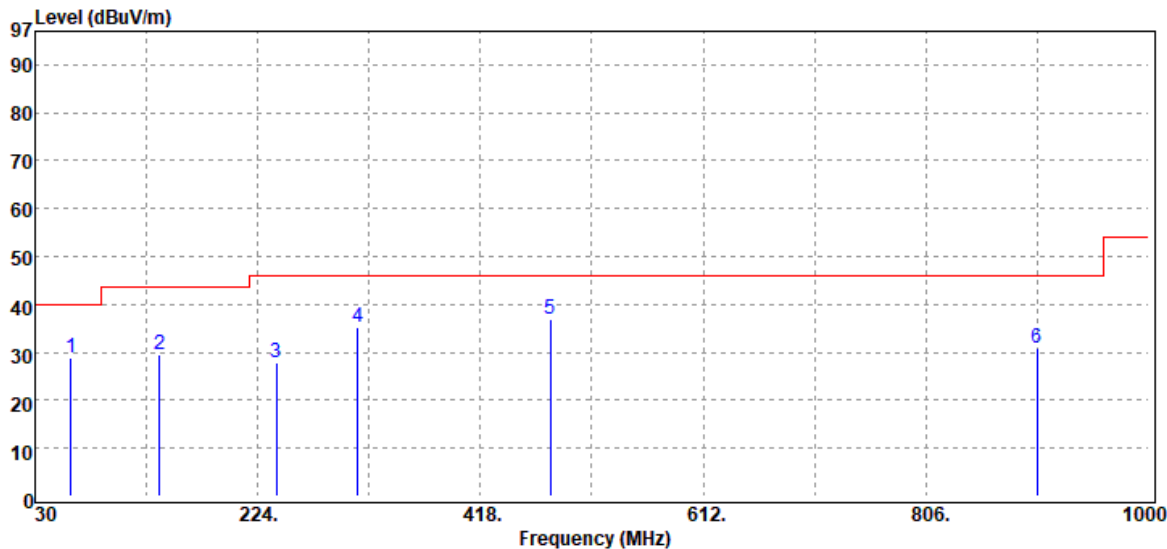
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	31.43	-4.56	26.87	40.00	-13.13
61.04	Peak	45.08	-17.16	27.92	40.00	-12.08
136.70	Peak	38.78	-11.48	27.30	43.50	-16.20
296.75	Peak	40.12	-8.57	31.55	46.00	-14.45
479.11	Peak	38.30	-5.37	32.93	46.00	-13.07
915.61	Peak	29.20	0.74	29.94	46.00	-16.06

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH Mid
 EUT Pol :H Plane

Test Date :2020-04-09
 Temp./Humi. :21.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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
61.04	Peak	46.00	-17.16	28.84	40.00	-11.16
138.64	Peak	41.28	-11.58	29.70	43.50	-13.80
240.49	Peak	37.89	-10.12	27.77	46.00	-18.23
311.30	Peak	43.36	-8.15	35.21	46.00	-10.79
479.11	Peak	42.43	-5.37	37.06	46.00	-8.94
903.00	Peak	30.02	1.02	31.04	46.00	-14.96

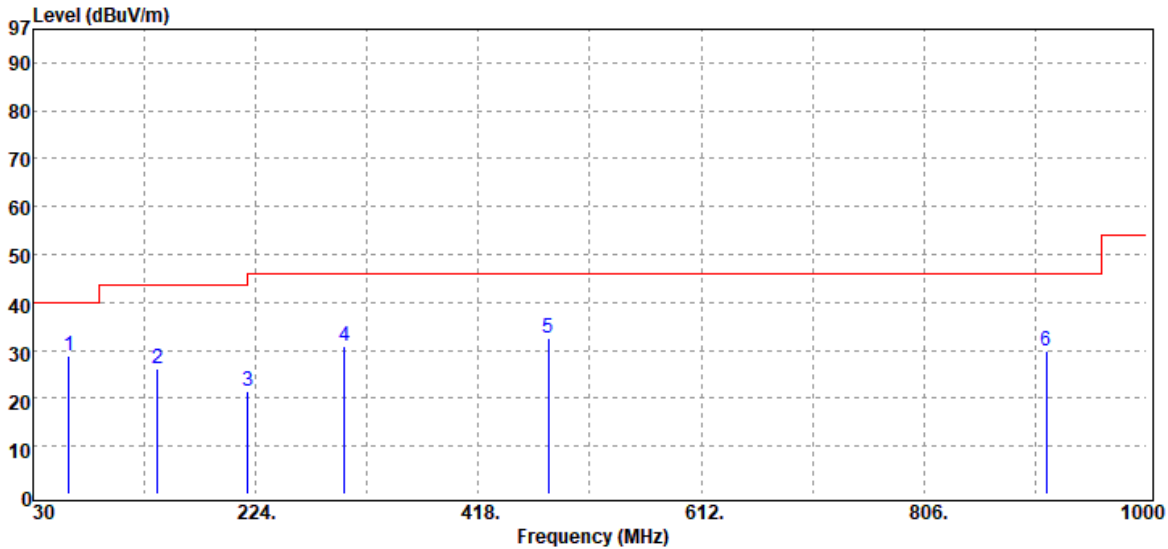
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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH Mid
 EUT Pol :H Plane

Test Date :2020-04-09
 Temp./Humi. :21.6/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



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
61.04	Peak	45.91	-17.16	28.75	40.00	-11.25
138.64	Peak	37.69	-11.58	26.11	43.50	-17.39
217.21	Peak	33.48	-12.00	21.48	46.00	-24.52
301.60	Peak	39.44	-8.50	30.94	46.00	-15.06
479.11	Peak	37.84	-5.37	32.47	46.00	-13.53
912.70	Peak	29.13	0.81	29.94	46.00	-16.06

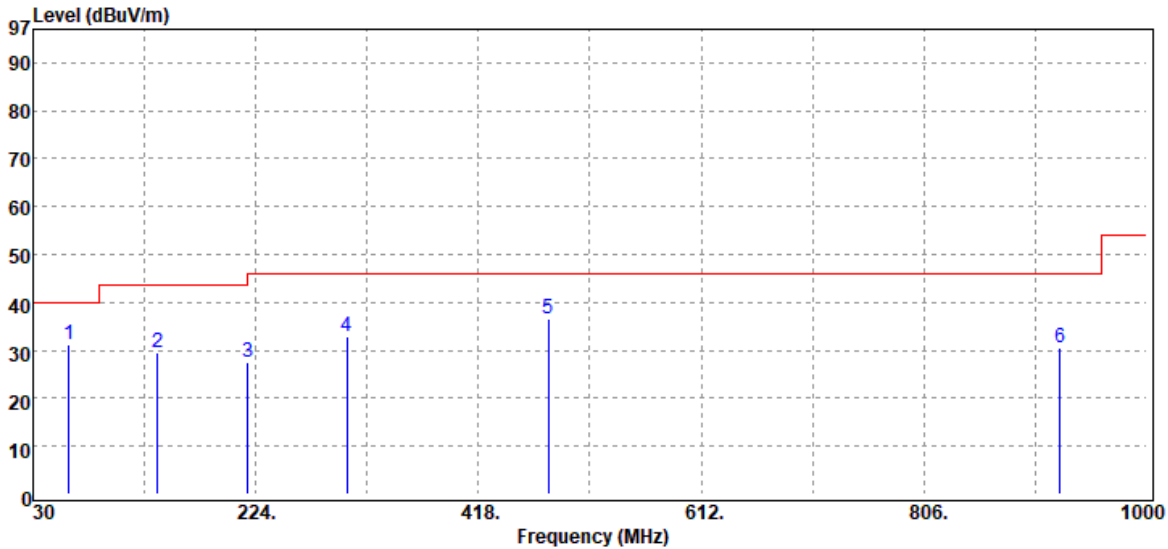
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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH Mid
 EUT Pol :H Plane

Test Date :2020-04-09
 Temp./Humi. :21.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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
61.04	Peak	48.30	-17.16	31.14	40.00	-8.86
138.64	Peak	41.10	-11.58	29.52	43.50	-13.98
217.21	Peak	39.41	-12.00	27.41	46.00	-18.59
303.54	Peak	41.40	-8.43	32.97	46.00	-13.03
479.11	Peak	42.05	-5.37	36.68	46.00	-9.32
924.34	Peak	30.01	0.66	30.67	46.00	-15.33

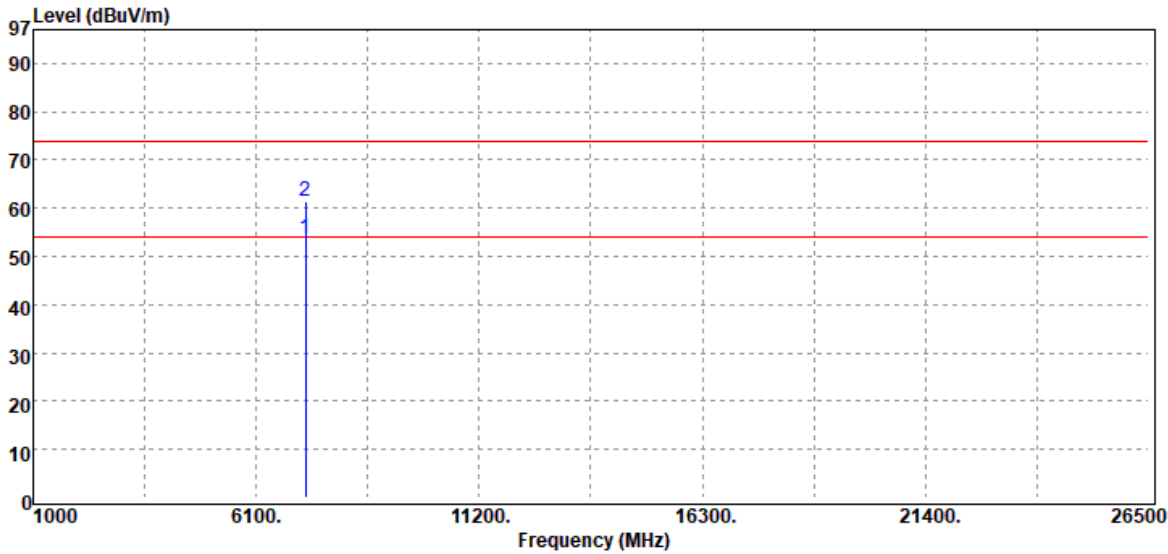
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11.7.3 Above 1GHz Emission:

Report Number	:ER/2020/20060	Test Date	:2020-04-06
Operation Mode	:802.11b	Temp./Humi.	:21.3/63
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



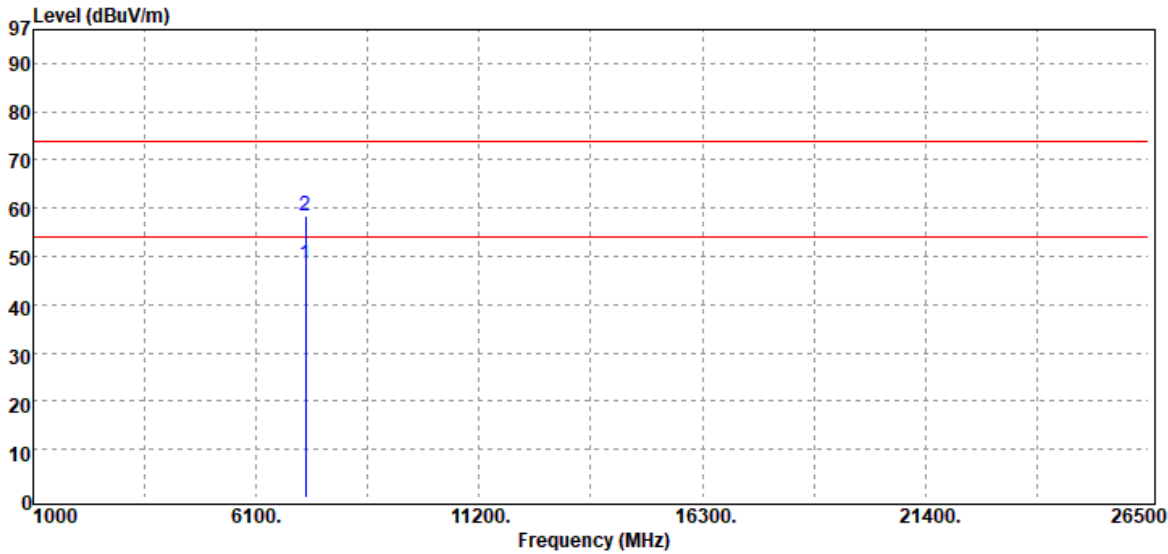
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
7236.00	Average	32.76	20.95	53.71	54.00	-0.29
7236.00	Peak	40.31	20.95	61.26	74.00	-12.74

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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



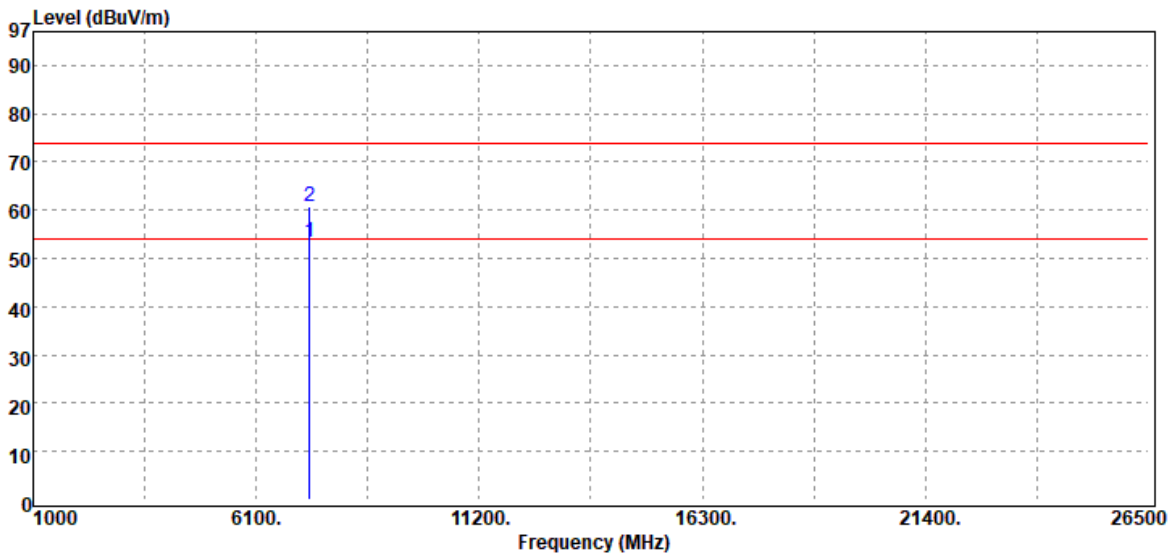
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7236.00	Average	27.45	20.95	48.40	54.00	-5.60
7236.00	Peak	37.41	20.95	58.36	74.00	-15.64

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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



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
7311.00	Average	31.21	22.31	53.52	54.00	-0.48
7311.00	Peak	38.29	22.31	60.60	74.00	-13.40

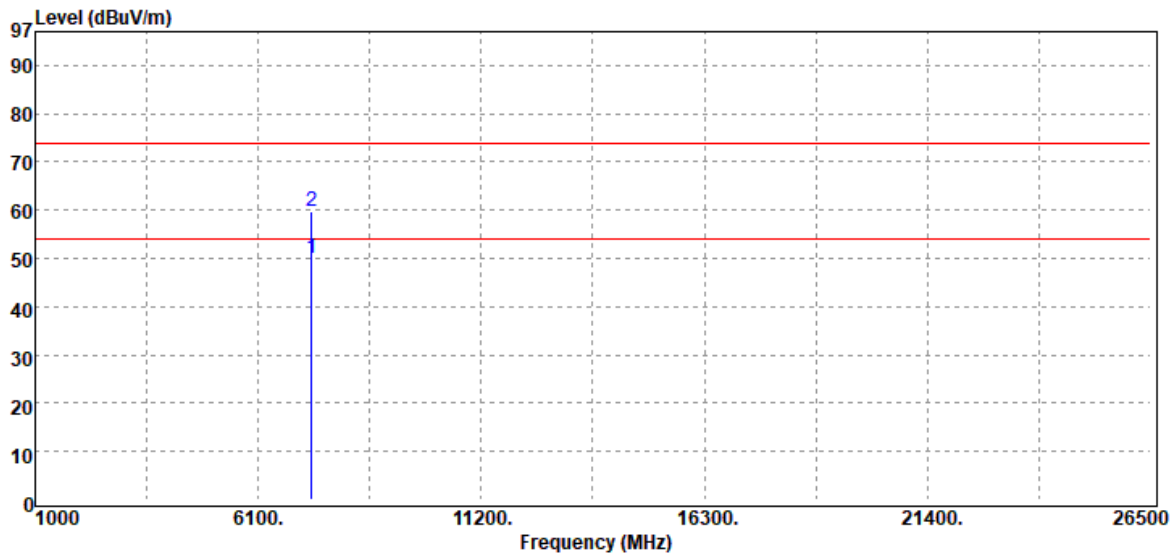
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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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
7311.00	Average	27.85	22.31	50.16	54.00	-3.84
7311.00	Peak	37.31	22.31	59.62	74.00	-14.38

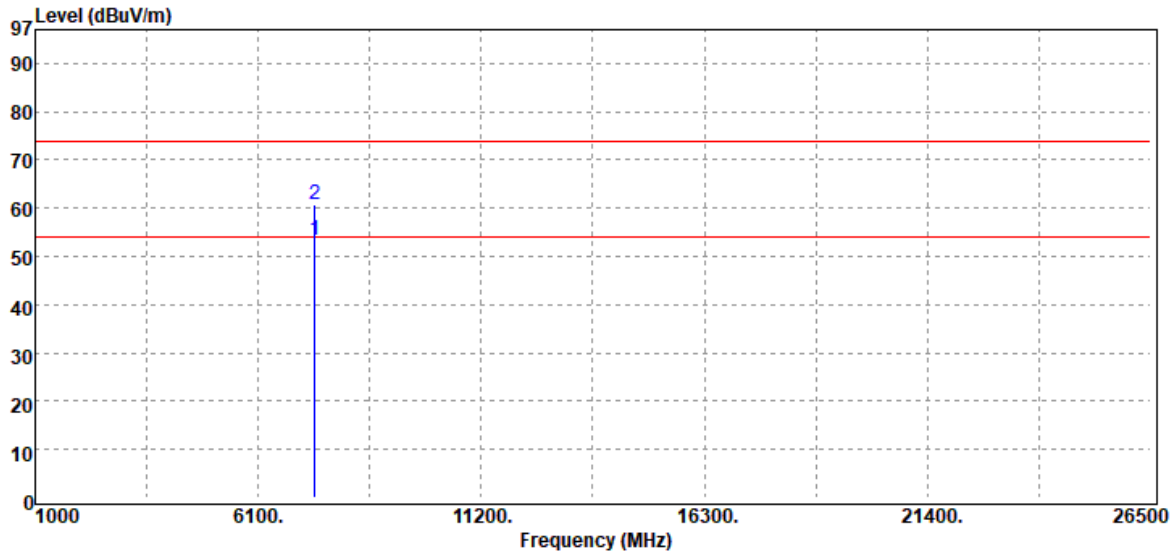
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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



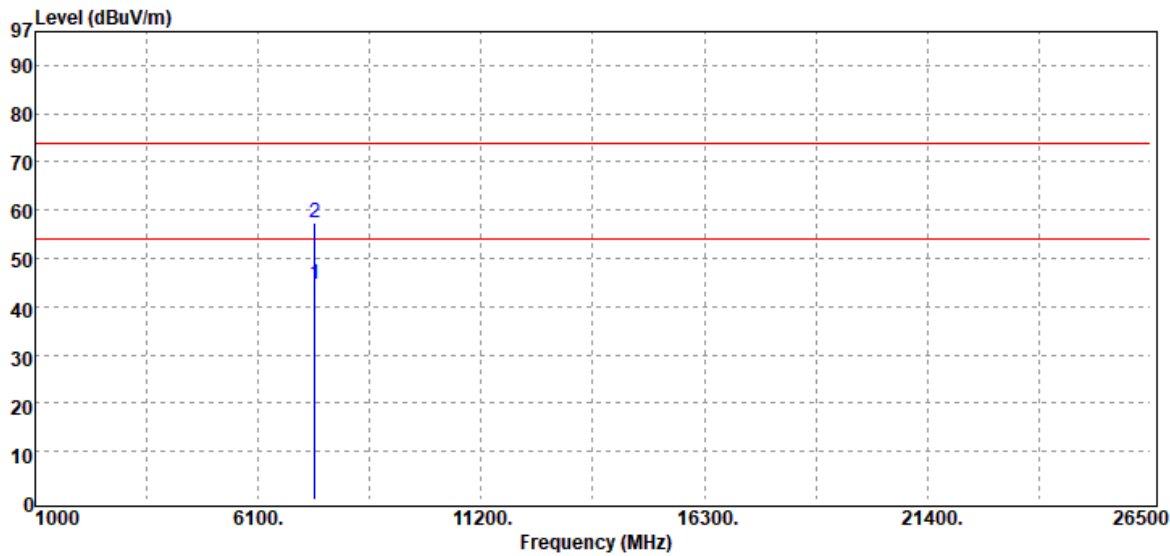
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7386.00	Average	32.05	21.24	53.29	54.00	-0.71
7386.00	Peak	39.35	21.24	60.59	74.00	-13.41

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Report Number :ER/2020/20060
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



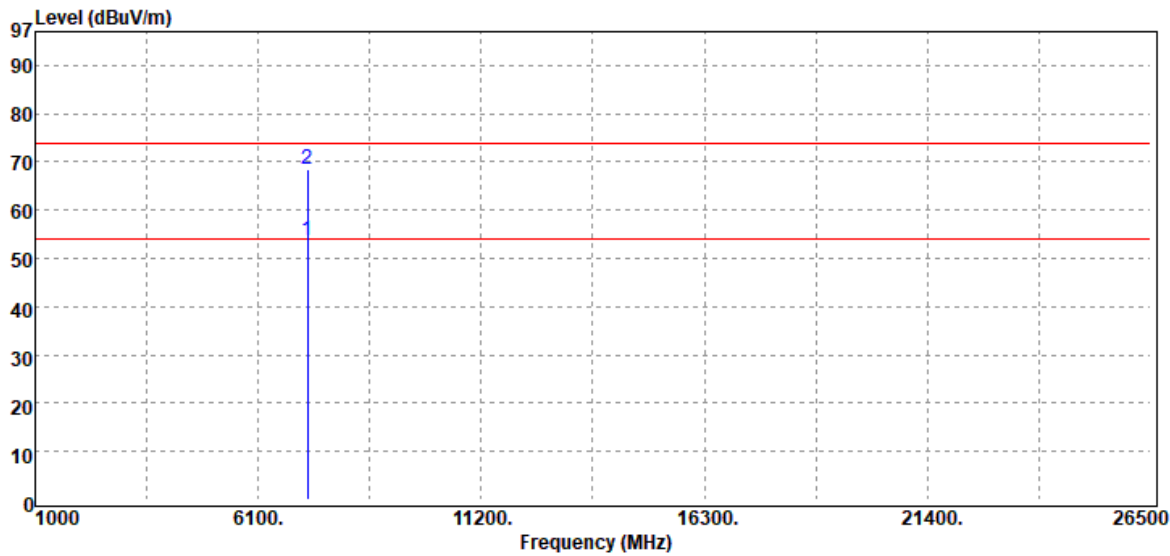
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7386.00	Average	23.25	21.24	44.49	54.00	-9.51
7386.00	Peak	36.07	21.24	57.31	74.00	-16.69

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



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
7236.00	Average	32.84	20.95	53.79	54.00	-0.21
7236.00	Peak	47.37	20.95	68.32	74.00	-5.68

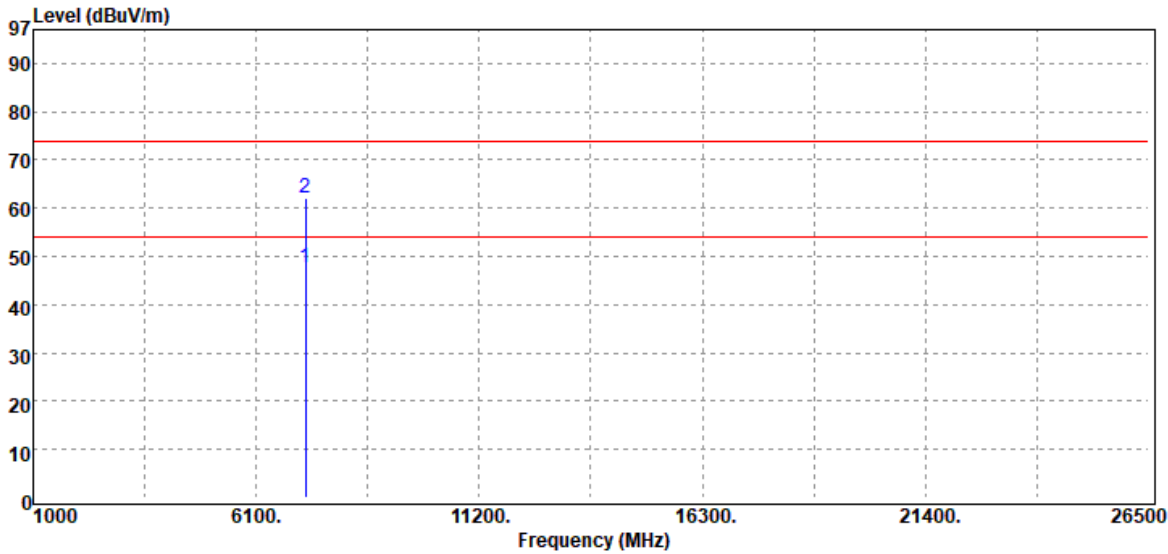
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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



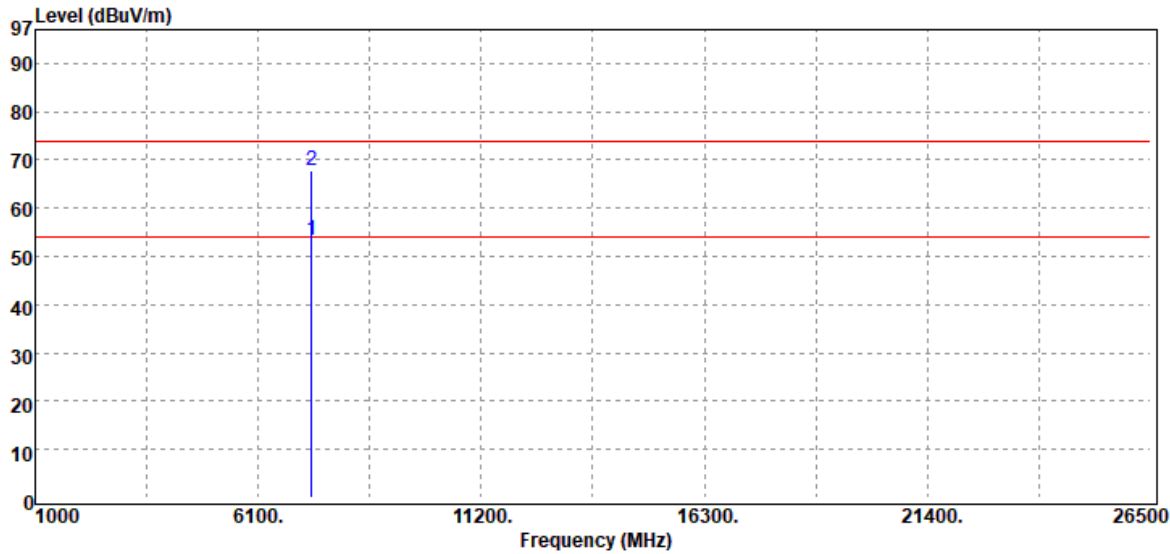
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7236.00	Average	26.87	20.95	47.82	54.00	-6.18
7236.00	Peak	41.25	20.95	62.20	74.00	-11.80

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :VERTICAL
 Engineer :Neo



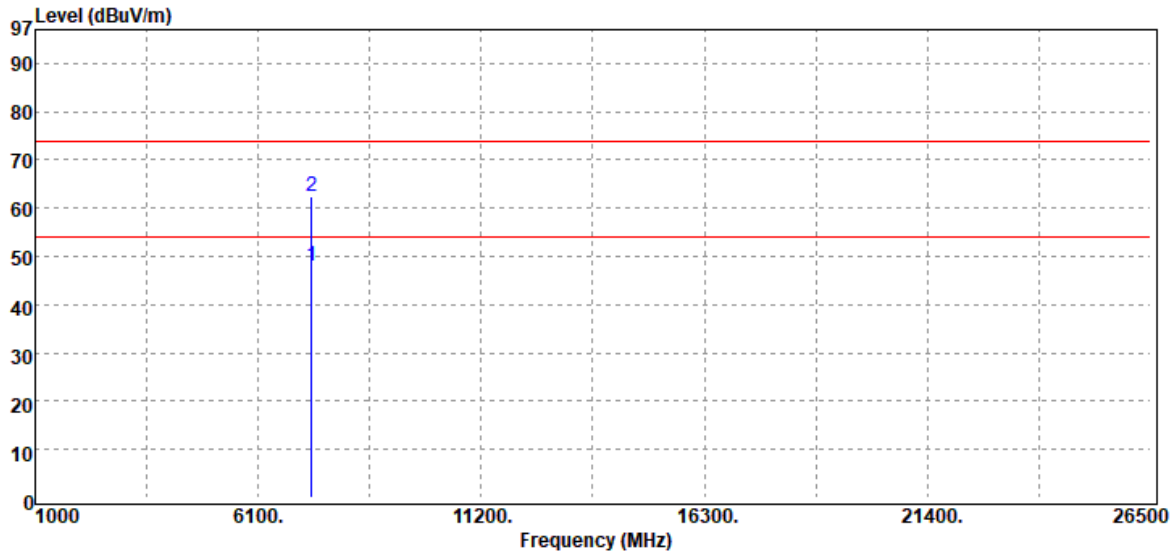
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7311.00	Average	31.12	22.31	53.43	54.00	-0.57
7311.00	Peak	45.36	22.31	67.67	74.00	-6.33

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-06
 Temp./Humi. :21.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



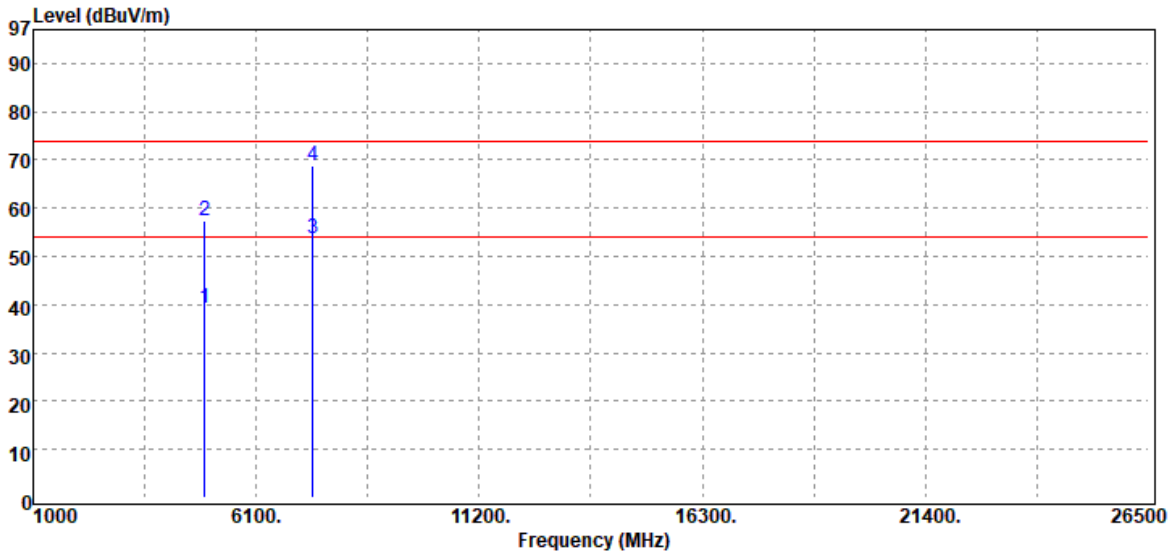
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7311.00	Average	25.53	22.31	47.84	54.00	-6.16
7311.00	Peak	40.22	22.31	62.53	74.00	-11.47

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



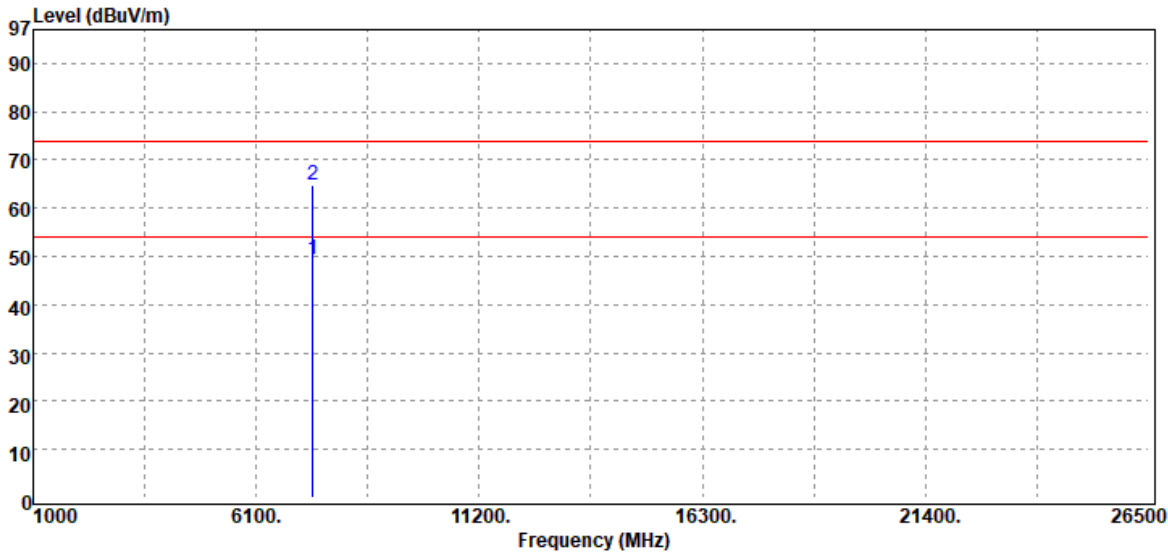
Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	24.33	14.87	39.20	54.00	-14.80
4924.00	Peak	42.55	14.87	57.42	74.00	-16.58
7386.00	Average	32.56	21.24	53.80	54.00	-0.20
7386.00	Peak	47.56	21.24	68.80	74.00	-5.20

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Report Number :ER/2020/20060
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



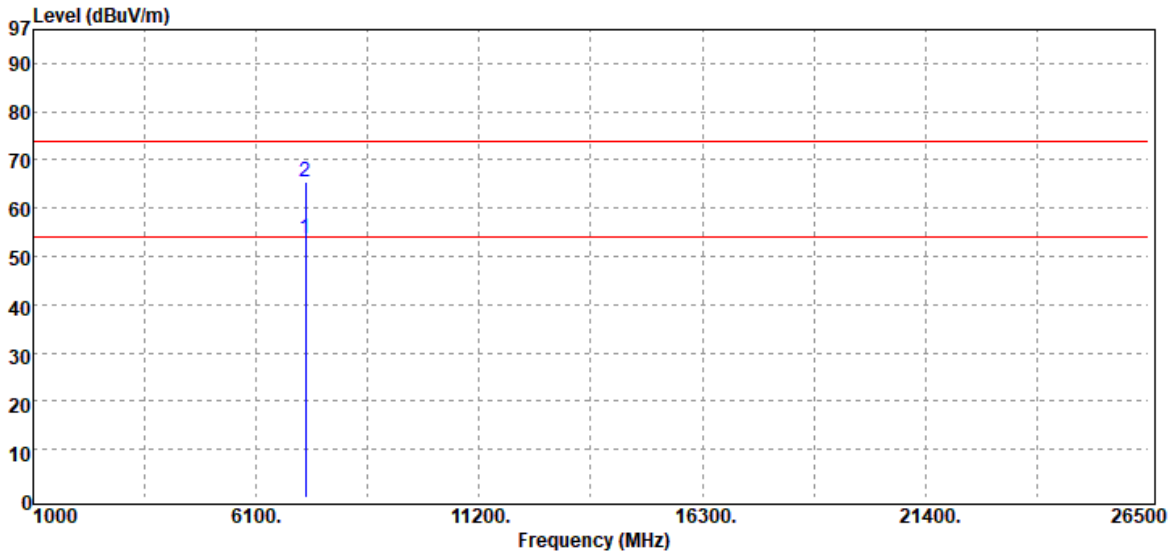
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7386.00	Average	27.94	21.24	49.18	54.00	-4.82
7386.00	Peak	43.49	21.24	64.73	74.00	-9.27

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



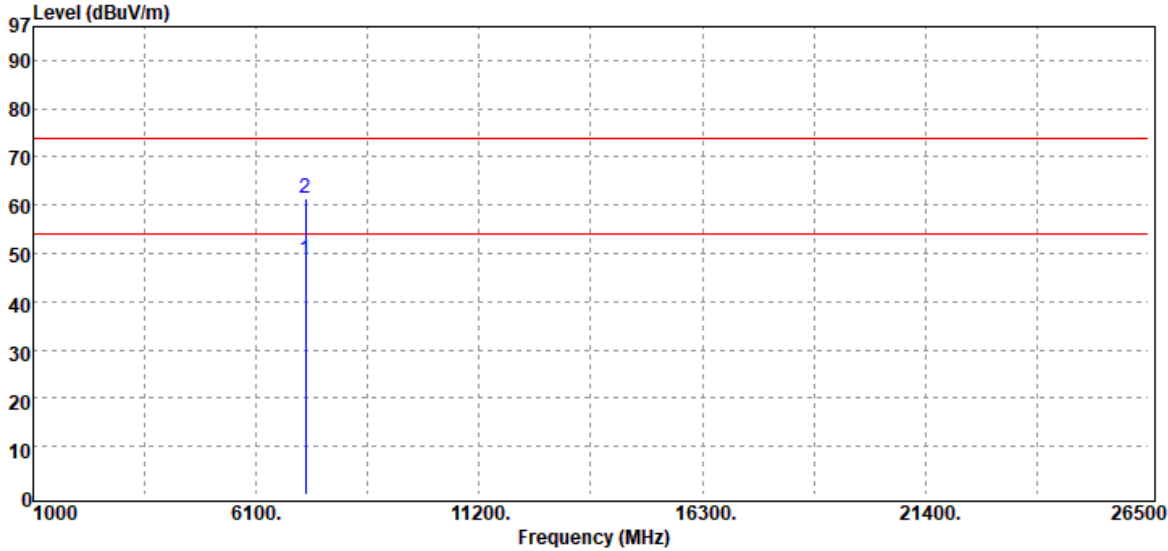
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7236.00	Average	32.64	20.95	53.59	54.00	-0.41
7236.00	Peak	44.56	20.95	65.51	74.00	-8.49

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



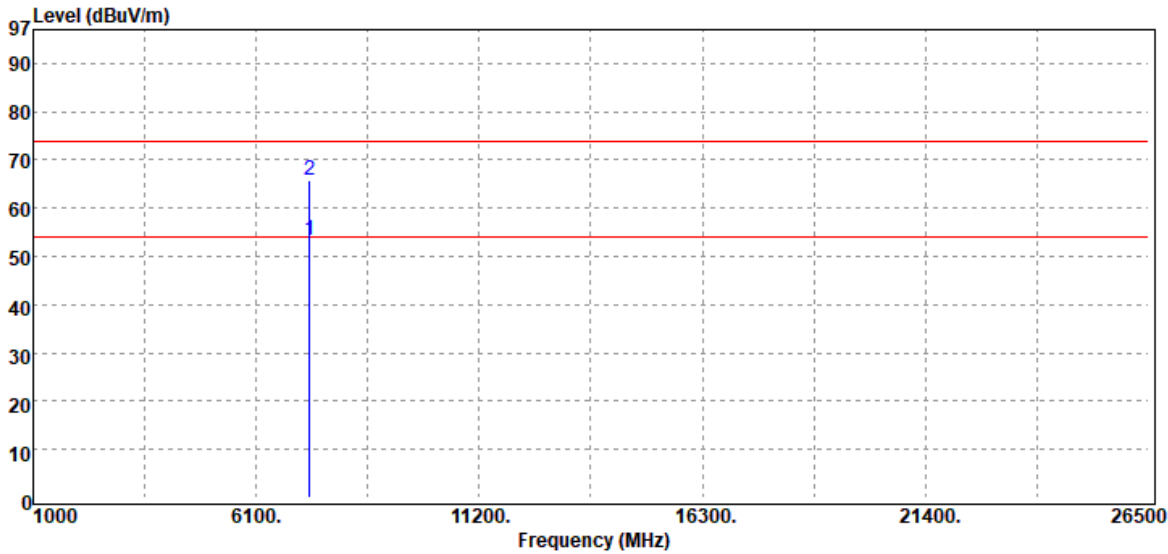
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7236.00	Average	27.76	20.95	48.71	54.00	-5.29
7236.00	Peak	40.55	20.95	61.50	74.00	-12.50

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



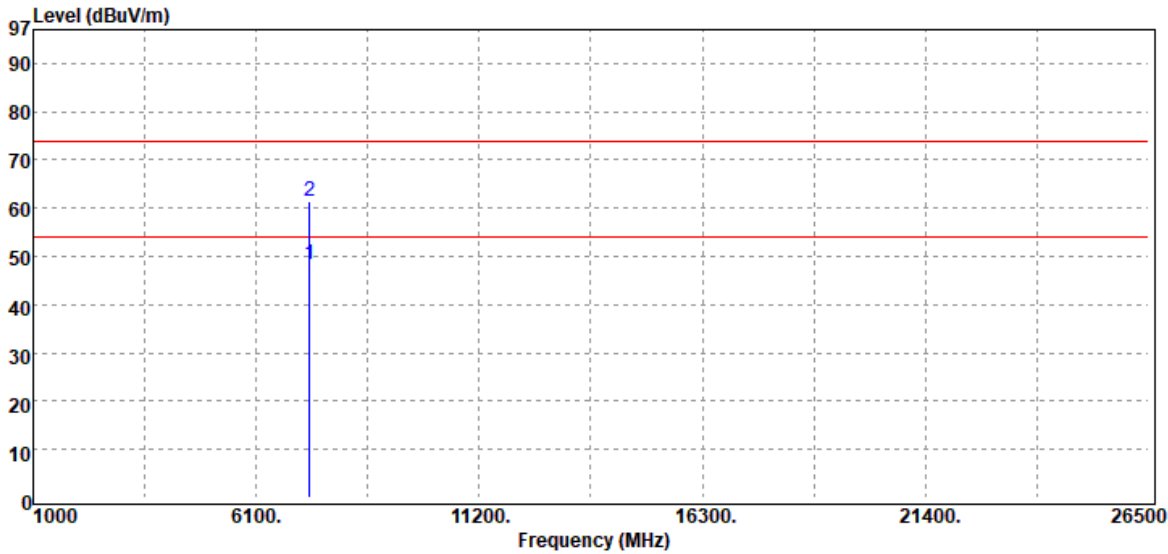
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7311.00	Average	31.04	22.31	53.35	54.00	-0.65
7311.00	Peak	43.42	22.31	65.73	74.00	-8.27

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



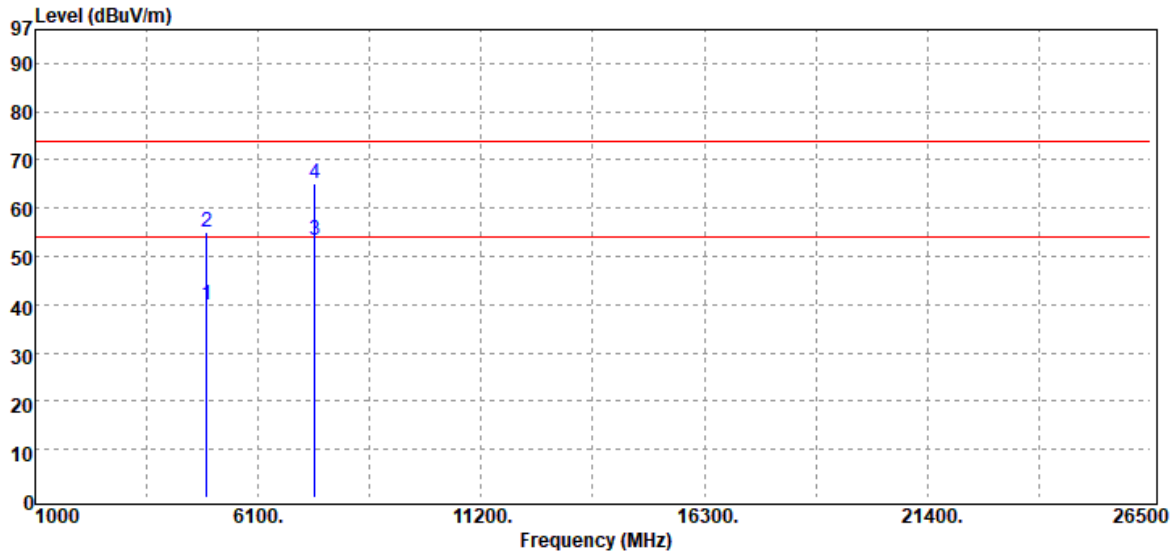
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7311.00	Average	26.06	22.31	48.37	54.00	-5.63
7311.00	Peak	39.11	22.31	61.42	74.00	-12.58

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



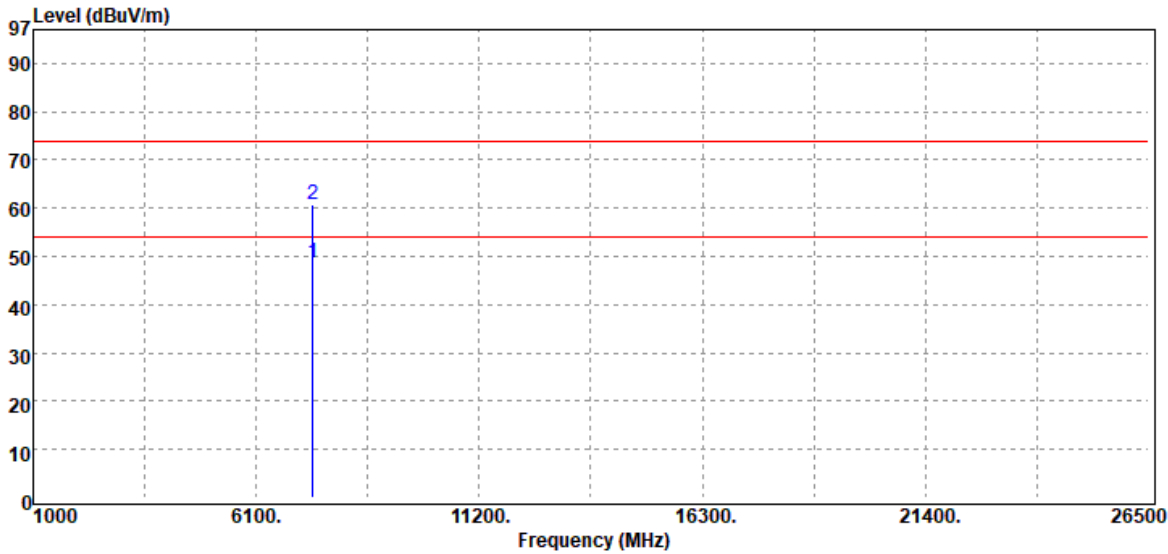
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	24.97	14.87	39.84	54.00	-14.16
4924.00	Peak	40.12	14.87	54.99	74.00	-19.01
7386.00	Average	32.19	21.24	53.43	54.00	-0.57
7386.00	Peak	43.92	21.24	65.16	74.00	-8.84

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Report Number :ER/2020/20060
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



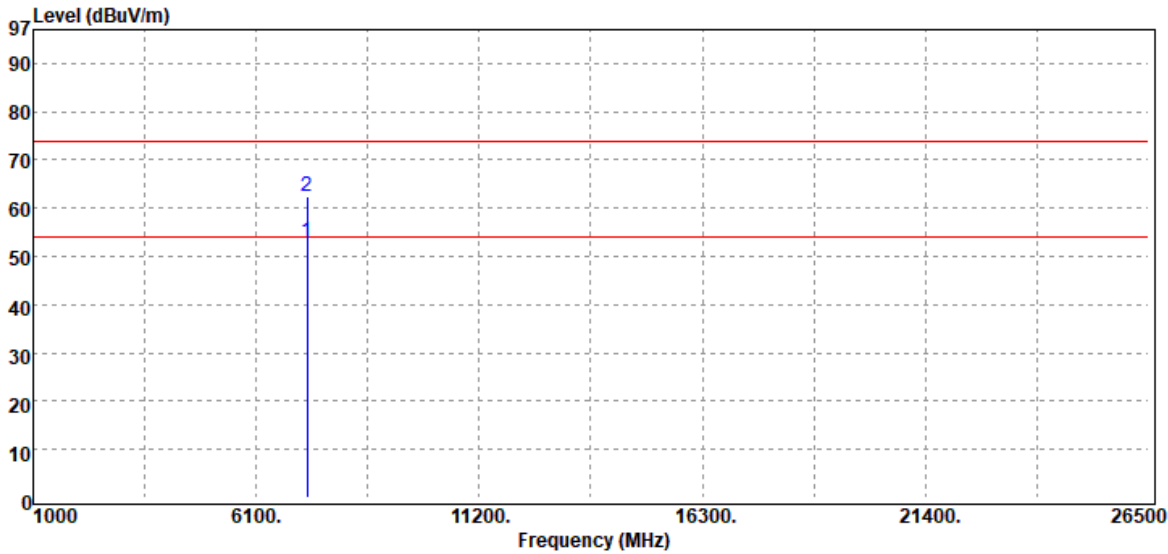
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7386.00	Average	27.38	21.24	48.62	54.00	-5.38
7386.00	Peak	39.66	21.24	60.90	74.00	-13.10

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



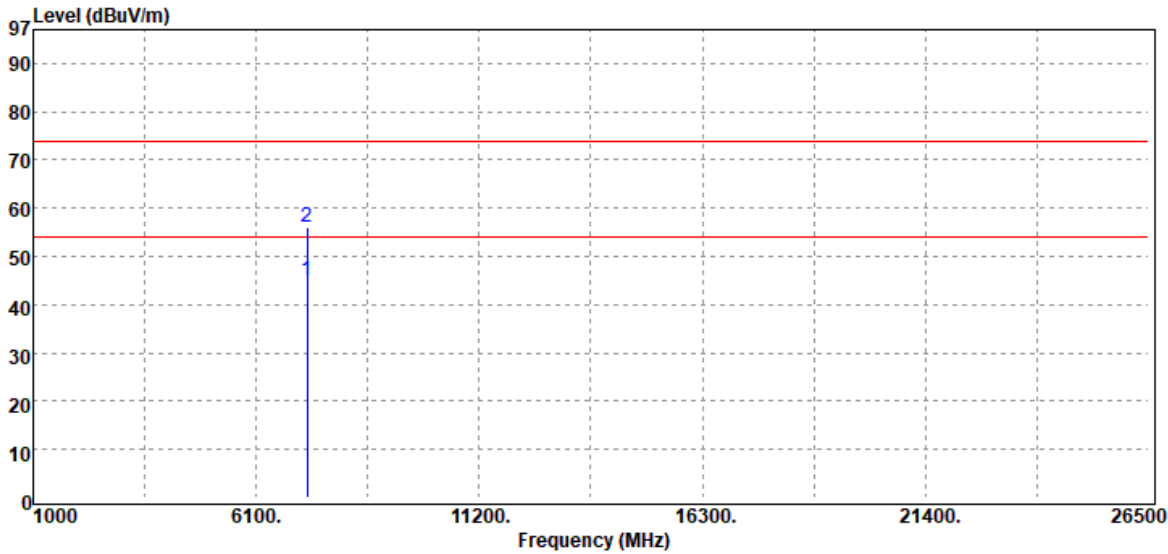
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7266.00	Average	31.53	21.43	52.96	54.00	-1.04
7266.00	Peak	41.15	21.43	62.58	74.00	-11.42

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



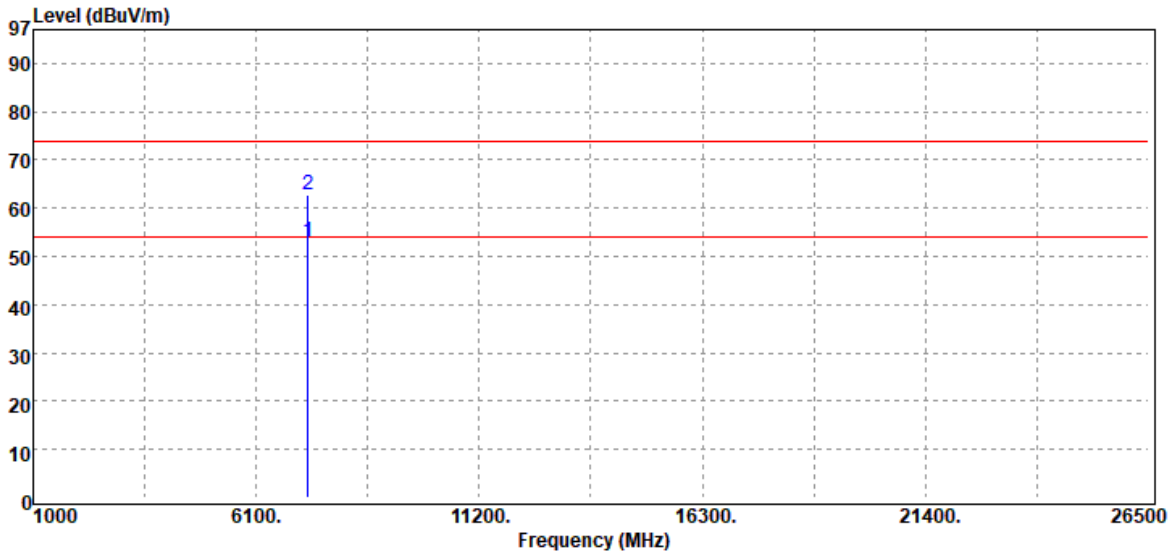
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7266.00	Average	23.43	21.43	44.86	54.00	-9.14
7266.00	Peak	34.58	21.43	56.01	74.00	-17.99

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :TX CH Low
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :VERTICAL
 Engineer :Neo



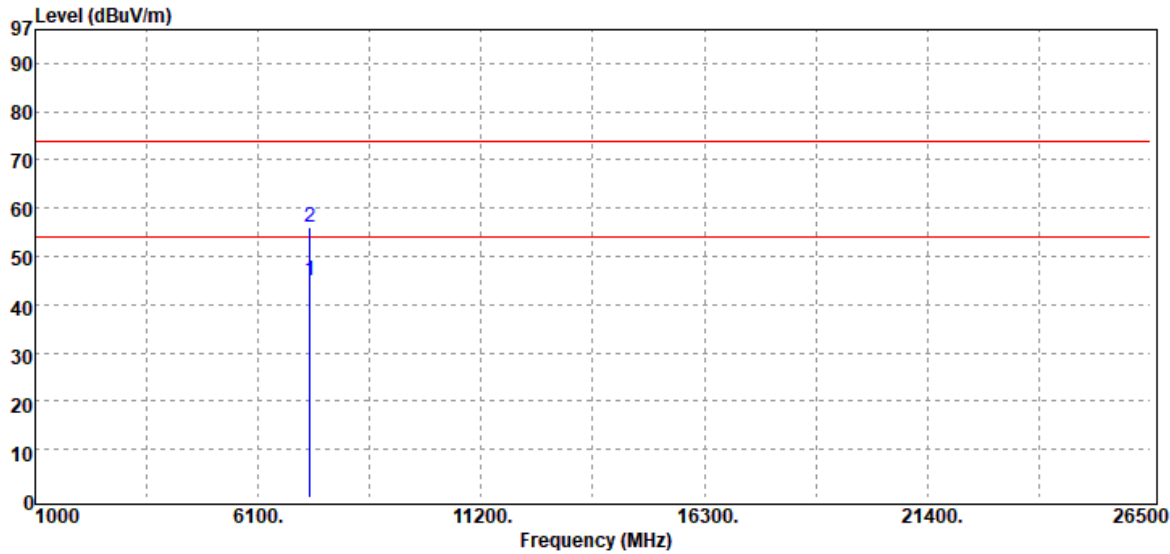
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7281.00	Average	31.25	21.90	53.15	54.00	-0.85
7281.00	Peak	40.86	21.90	62.76	74.00	-11.24

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :TX CH Low
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



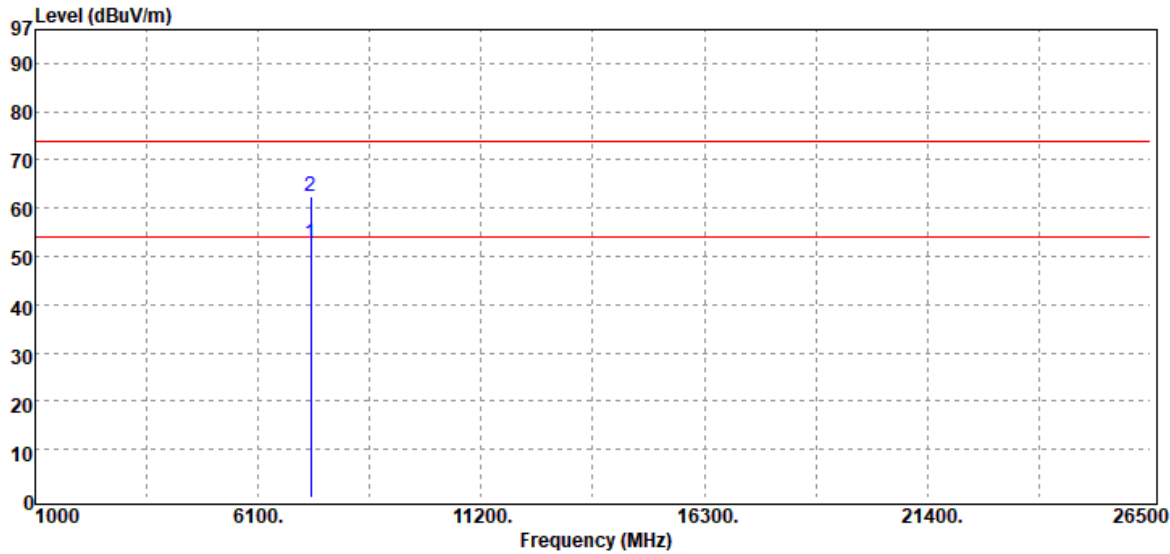
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7281.00	Average	23.11	21.90	45.01	54.00	-8.99
7281.00	Peak	34.07	21.90	55.97	74.00	-18.03

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2432 MHz
 Test Mode :TX CH Low
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :VERTICAL
 Engineer :Neo



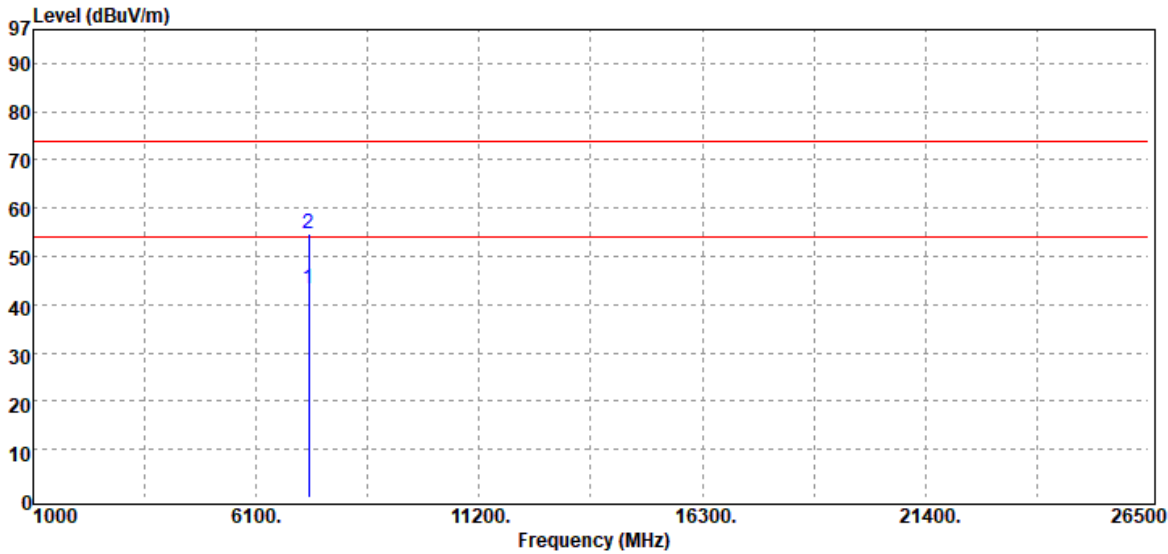
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7296.00	Average	30.39	22.35	52.74	54.00	-1.26
7296.00	Peak	40.06	22.35	62.41	74.00	-11.59

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2432 MHz
 Test Mode :TX CH Low
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



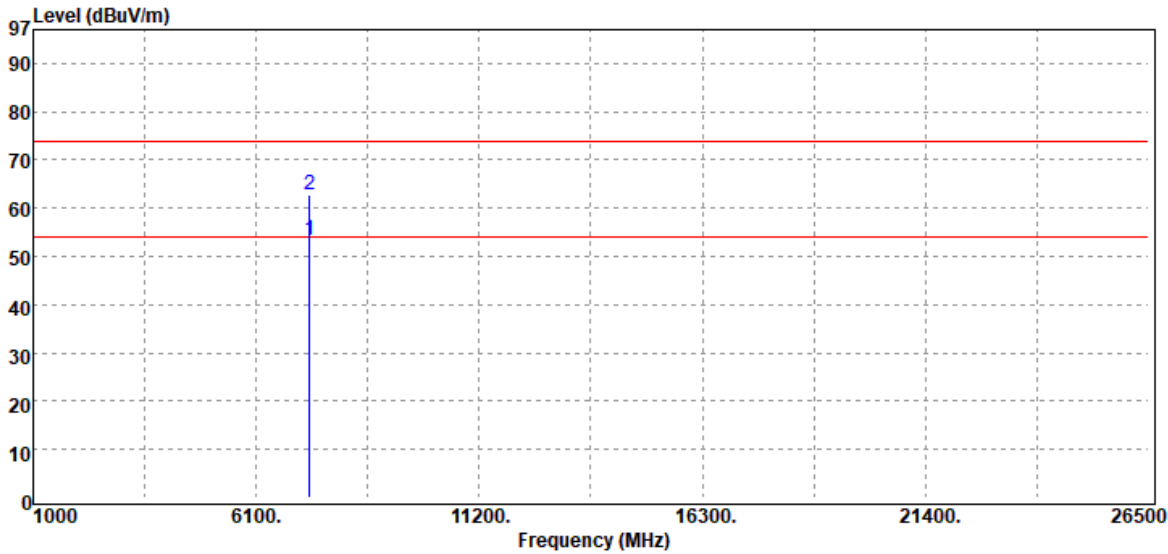
Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7296.00	Average	21.03	22.35	43.38	54.00	-10.62
7296.00	Peak	32.26	22.35	54.61	74.00	-19.39

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



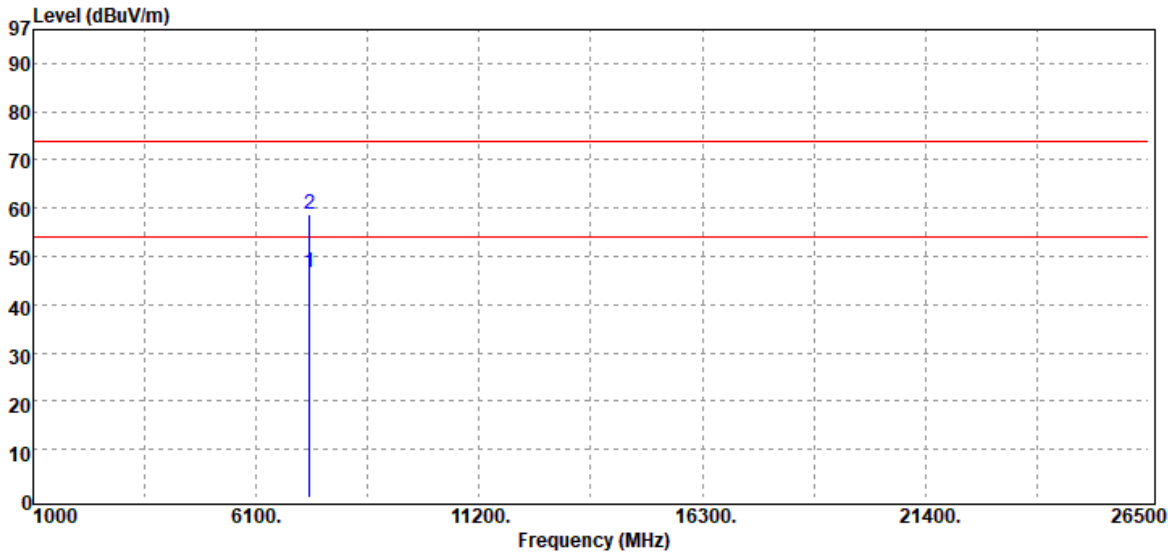
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7311.00	Average	31.02	22.31	53.33	54.00	-0.67
7311.00	Peak	40.49	22.31	62.80	74.00	-11.20

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



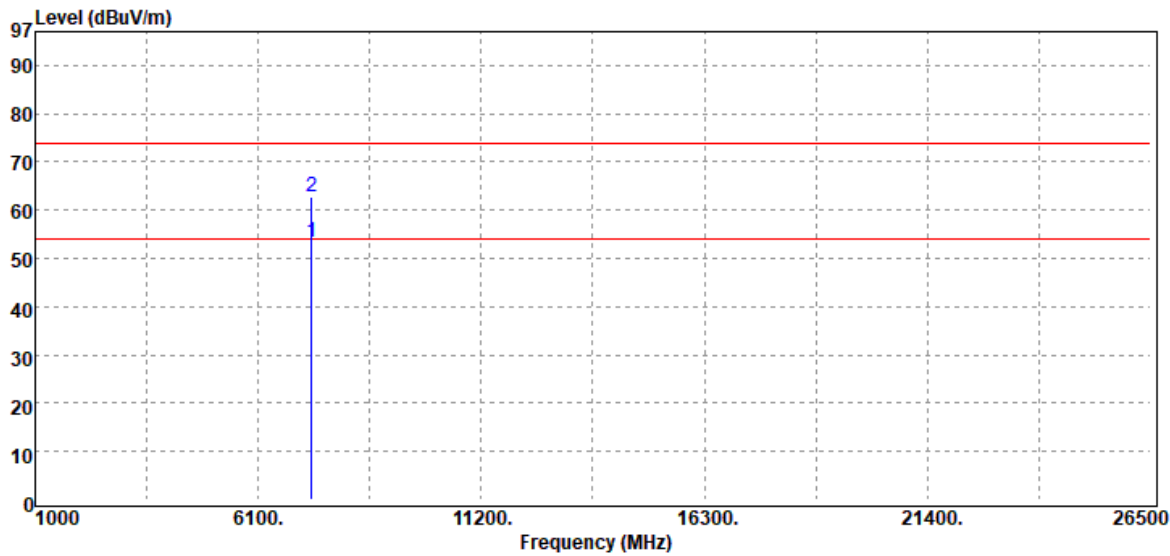
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7311.00	Average	24.49	22.31	46.80	54.00	-7.20
7311.00	Peak	36.44	22.31	58.75	74.00	-15.25

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :TX CH High
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :VERTICAL
 Engineer :Neo



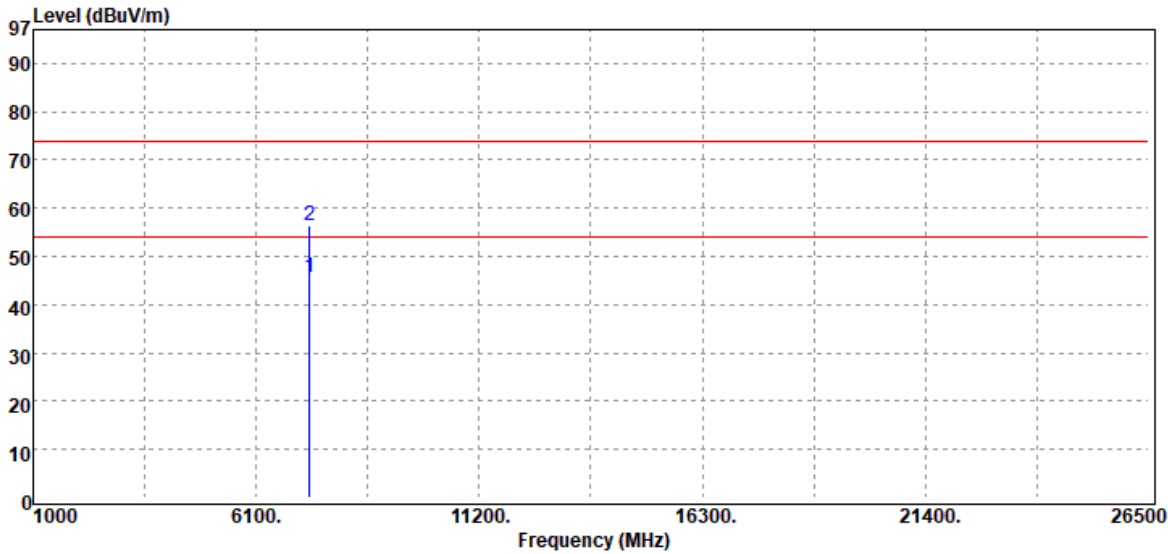
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7326.00	Average	31.44	22.09	53.53	54.00	-0.47
7326.00	Peak	40.61	22.09	62.70	74.00	-11.30

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :TX CH High
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



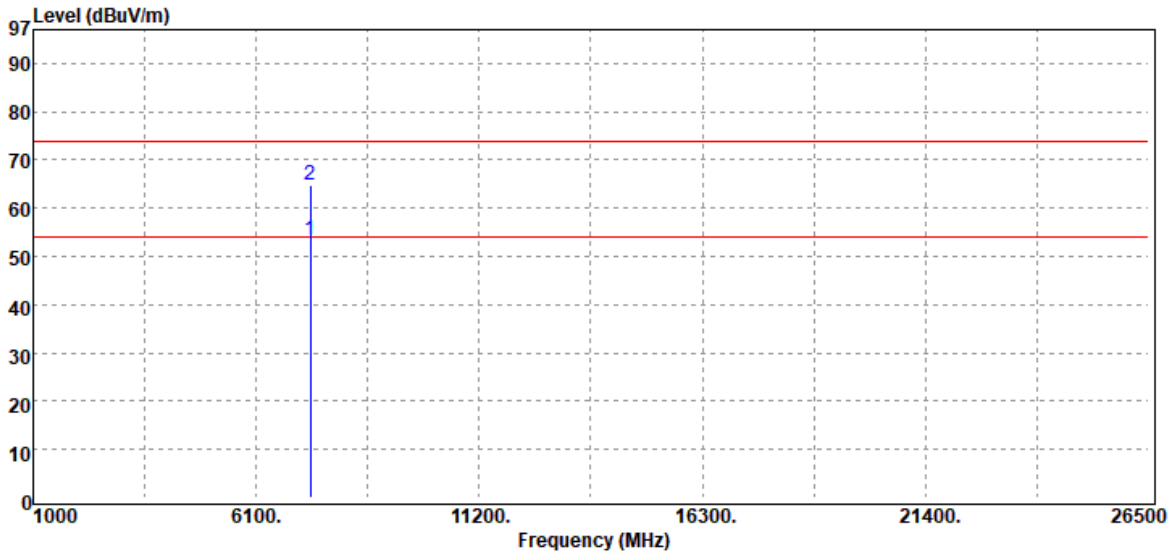
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7326.00	Average	23.53	22.09	45.62	54.00	-8.38
7326.00	Peak	34.42	22.09	56.51	74.00	-17.49

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :TX CH High
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :VERTICAL
 Engineer :Neo



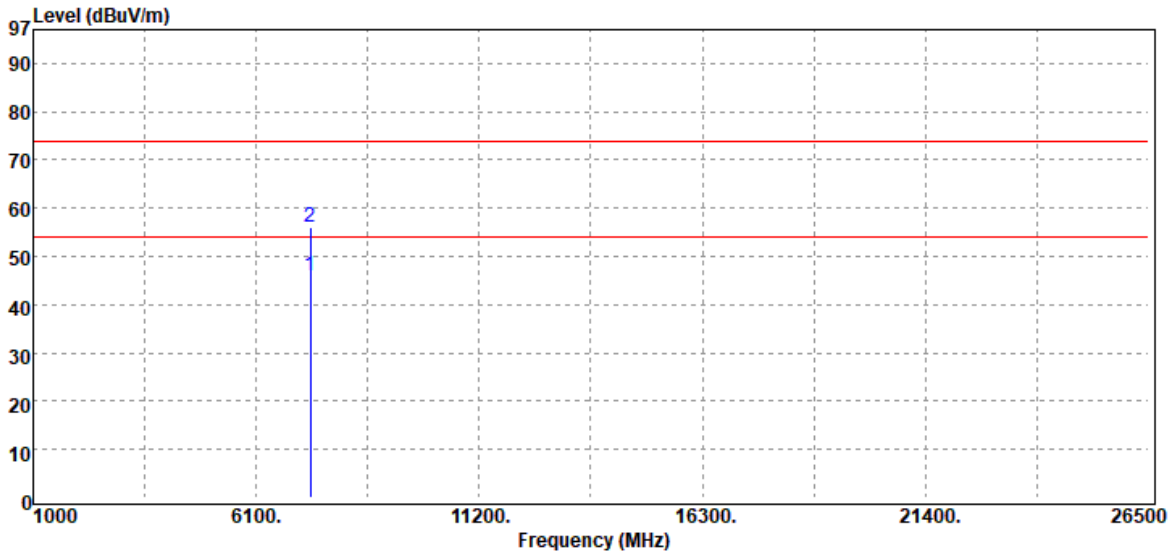
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7341.00	Average	31.39	21.86	53.25	54.00	-0.75
7341.00	Peak	42.87	21.86	64.73	74.00	-9.27

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :TX CH High
 EUT Pol :H Plane

Test Date :2020-04-14
 Temp./Humi. :21.0/46
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



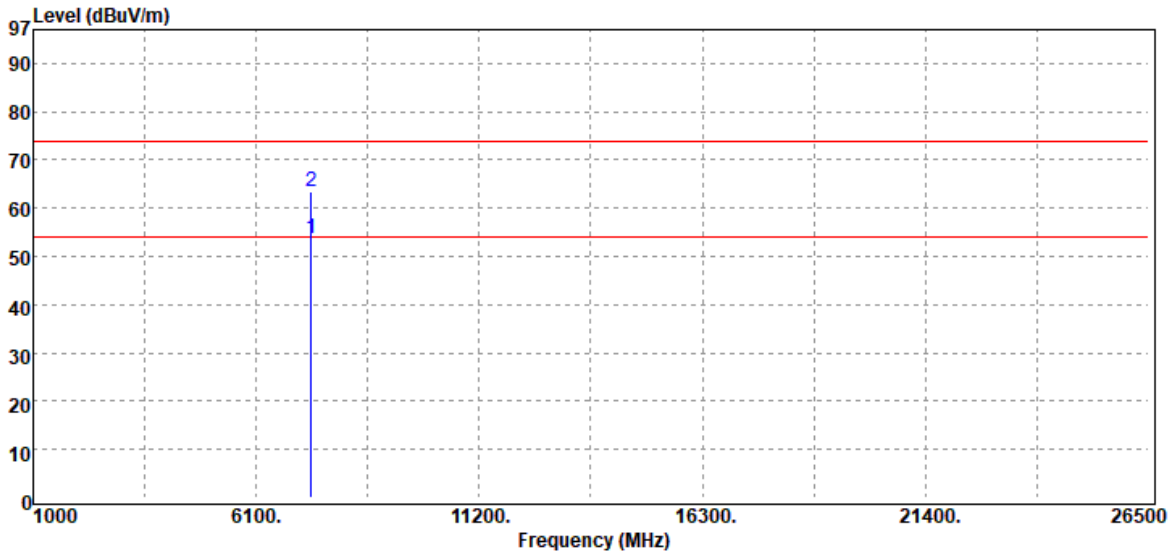
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7341.00	Average	24.01	21.86	45.87	54.00	-8.13
7341.00	Peak	34.03	21.86	55.89	74.00	-18.11

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



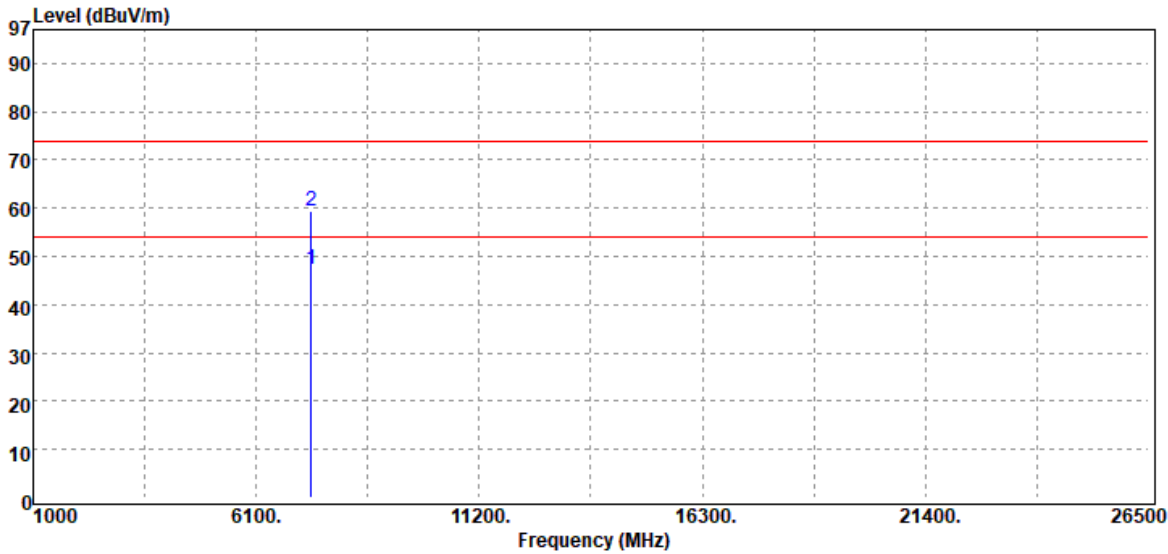
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7356.00	Average	32.19	21.65	53.84	54.00	-0.16
7356.00	Peak	41.92	21.65	63.57	74.00	-10.43

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Report Number :ER/2020/20060
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-04-07
 Temp./Humi. :21.3/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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
7356.00	Average	25.58	21.65	47.23	54.00	-6.77
7356.00	Peak	37.91	21.65	59.56	74.00	-14.44

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

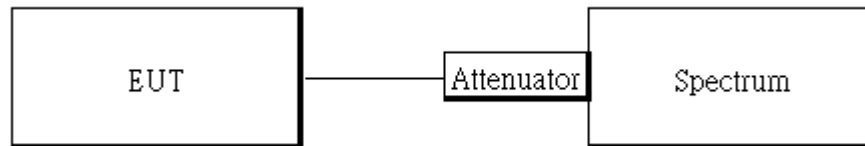
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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.
11. 802.11n 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. N=2 for this given application.

Note:

For the test of PSD at 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

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
 $= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$

[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)	Ch1 PSD	Ch2 PSD	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2412	-16.16	-17.17	-13.63	15.36	8.00	PASS
2437	-13.14	-18.06	-11.93	15.36	8.00	PASS
2462	-13.78	-13.27	-10.51	15.36	8.00	PASS

POWER DENSITY 802.11g						
Freq. (MHz)	Ch1 PSD	Ch2 PSD	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2412	-17.03	-17.5	-14.25	15.36	8.00	PASS
2437	-17.38	-16.95	-14.15	15.36	8.00	PASS
2462	-11.38	-12.85	-9.04	15.36	8.00	PASS

POWER DENSITY 802.11n HT20						
Freq. (MHz)	Ch1 PSD	Ch2 PSD	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2412	-17.63	-17.15	-14.37	15.36	8.00	PASS
2437	-18.16	-17.79	-14.96	15.36	8.00	PASS
2462	-13.45	-13.17	-10.30	15.36	8.00	PASS

POWER DENSITY 802.11n HT40						
Freq. (MHz)	Ch1 PSD	Ch2 PSD	PSD (dBm/3kHz)	Offset	Limit (dBm/3kHz)	Result
2422	-20.76	-17.08	-15.53	15.36	8.00	PASS
2437	-22.96	-17.64	-16.52	15.36	8.00	PASS
2452	-16.36	-14.23	-12.16	15.36	8.00	PASS

Note

Cable Loss 12.35 dB

*Refer to next page for plots

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Member of SGS Group

Power Density_802.11b_20MHz_Chain0_2412MHz



Power Density_802.11b_20MHz_Chain1_2412MHz



Power Density_802.11b_20MHz_Chain0_2437MHz



Power Density_802.11b_20MHz_Chain1_2437MHz



Power Density_802.11b_20MHz_Chain0_2462MHz



Power Density_802.11b_20MHz_Chain1_2462MHz



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Power Density 802.11g 20MHz Chain0 2412MHz



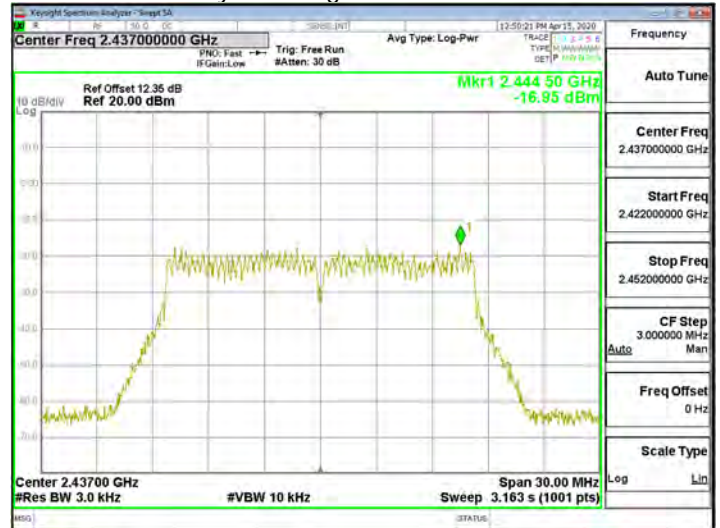
Power Density 802.11g 20MHz Chain1 2412MHz



Power Density_802.11g_20MHz_Chain0_2437MHz



Power Density_802.11g_20MHz_Chain1_2437MHz



Power Density_802.11g_20MHz_Chain0_2462MHz



Power Density_802.11g_20MHz_Chain1_2462MHz



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Power Density 802.11n 20MHz Chain0 2412MHz



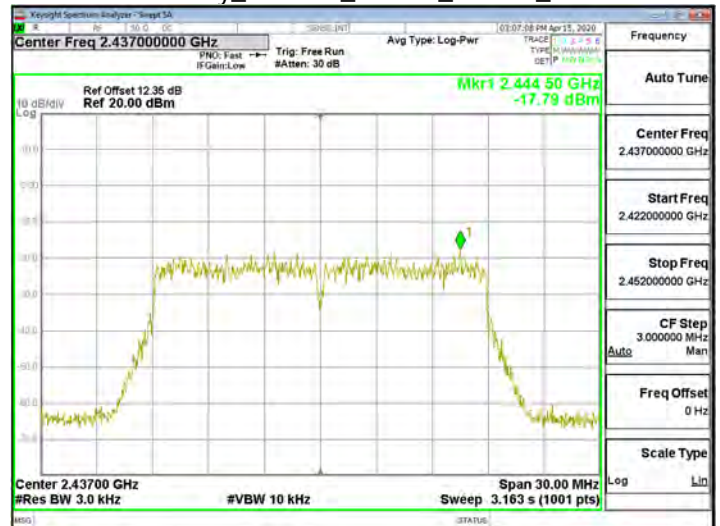
Power Density 802.11n 20MHz Chain1 2412MHz



Power Density_802.11n_20MHz_Chain0_2437MHz



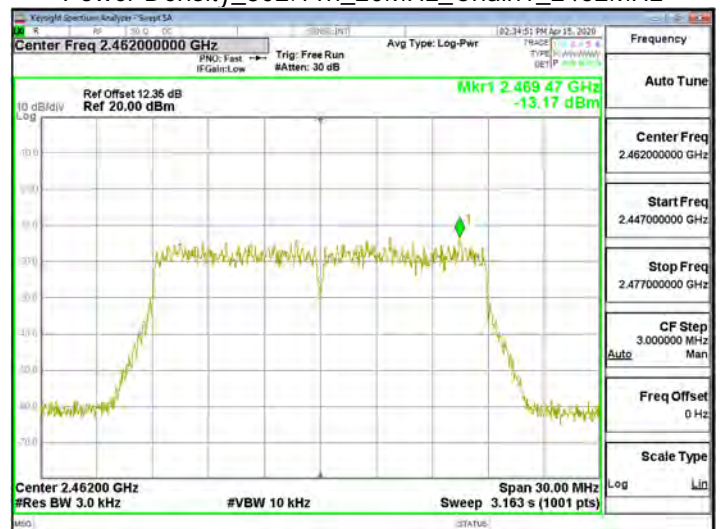
Power Density_802.11n_20MHz_Chain1_2437MHz



Power Density_802.11n_20MHz_Chain0_2462MHz



Power Density_802.11n_20MHz_Chain1_2462MHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Power Density 802.11n 40MHz Chain0 2422MHz



Power Density 802.11n 40MHz Chain1 2422MHz



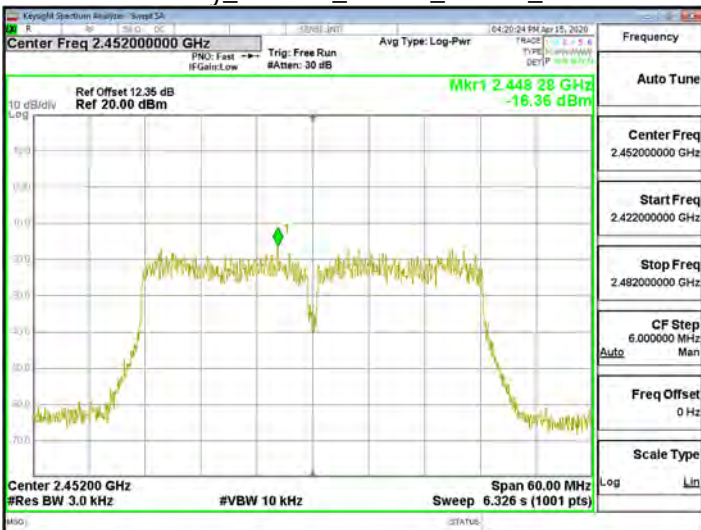
Power Density_802.11n_40MHz_Chain0_2437MHz



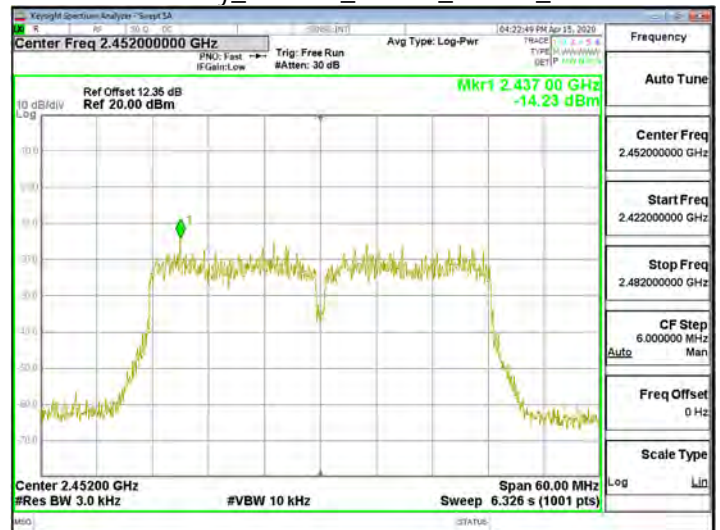
Power Density_802.11n_40MHz_Chain1_2437MHz



Power Density_802.11n_40MHz_Chain0_2452MHz



Power Density_802.11n_40MHz_Chain1_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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