

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Digi International Inc
9350 Excelsior Blvd., Suite 700 Hopkins, MN 55343
Product Name: ConnectCore 8X
Brand Name: Digi
Model No.: CC8X
Model Difference: N/A
Report Number: ER/2019/B0064
FCC ID: MCQ-CCIMX8
IC: 1846A-CCIMX8
FCC Rule Part: §15.247, Cat: DTS
IC RSS: RSS-247 issue 2 Feb 2017
Issue Date: Jul. 10, 2020
Date of Test: Dec. 04, 2019 ~ Feb 07, 2020
Date of EUT Received: Dec. 04, 2019

We hereby certify that:

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

The test results of this report relate only to the tested sample identified in this report.

Approved By:

CHUN-CHIEH, CHEN
CHUN-CHIEH, CHEN /
Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2019/B0064	Rev.00	Original.	Jul. 10, 2020	Revised By: Susan Lin

Note:

1、Disclaimer

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

2、The test data in this test report is fully leveraged from the TAF code 0513. Since the laboratory's TAF code has been updated to 3702, this test report is being issued by the laboratory of TAF code 3702.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	ConnectCore 8X	
Brand Name:	Digi	
Model No.:	CC8X	
Model Difference:	N/A	
Hardware Version:	55001984-02 rev 4P	
Software Version:	82004286 rev 4P	
EUT Serial Number:	F191001000424	
Power Supply:	5Vdc from AC/DC Adapter	
	Adapter:	Model No.: GT-46180-1605, Supplier: GlobTek, Inc.

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	20.83	DSSS
g			26.50	OFDM
n_HT20			26.88	
n_HT40	2422-2452	7	23.02	
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. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)	Worst Antenna Gain
PCB	YAGEO	ANTX100P001B24553	2.4GHz	4.6	7.61	V
PCB	TAOGLAS	FXP830.07.0100C	2.4GHz	3.32	6.33	
Dipole	TAOGLAS	GW.48.A151	2.4GHz	3.42	6.43	V
PCB	TAOGLAS	FXP522.A.07.A.001	2.4GHz	3.78 (Port 1) 3.15 (Port 2)	6.79	
Dipole	Linx	ANT-DB1-RAF-RPS	2.4GHz	2.5	5.51	
PCB	ethertronic	1001932	2.4GHz	2.5	5.51	
PCB	TAOGLAS	FXP831.07.0100C	2.4GHz	3.0	6.01	

Note: Pre-scanned was done on the above 7 antennas, the PCB (ANTX100P001B24553) and Dipole (GW.48.A151) 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 Radiated Emission & Conducted (AC powerline) Emission

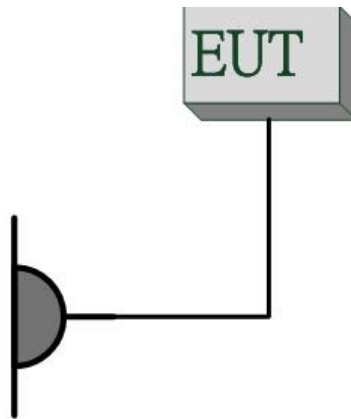


Fig. 2-2 Conducted (Antenna Port) Emission



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	L430	R9-X11BG	Unshielded	Shielded

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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.

9 channels are provided for 802.11n 40M

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

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

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation	Transmission Chain					Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3		<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"/> 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"/> 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
802.11n40M	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
802.11n20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n40M	3 to 9	3, 6, 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 E2 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, 6, 9	OFDM	MCS 8	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020
LISN	SCHWARZBECK	NSLK 8127	8127-649	04/02/2019	04/01/2020
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2020	01/01/2021
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R

6.3 EUT Setup

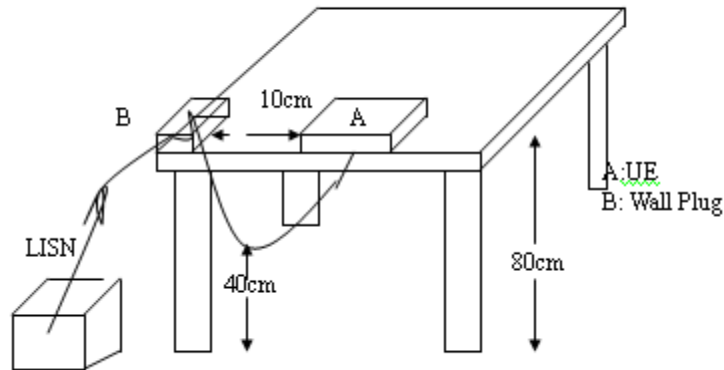
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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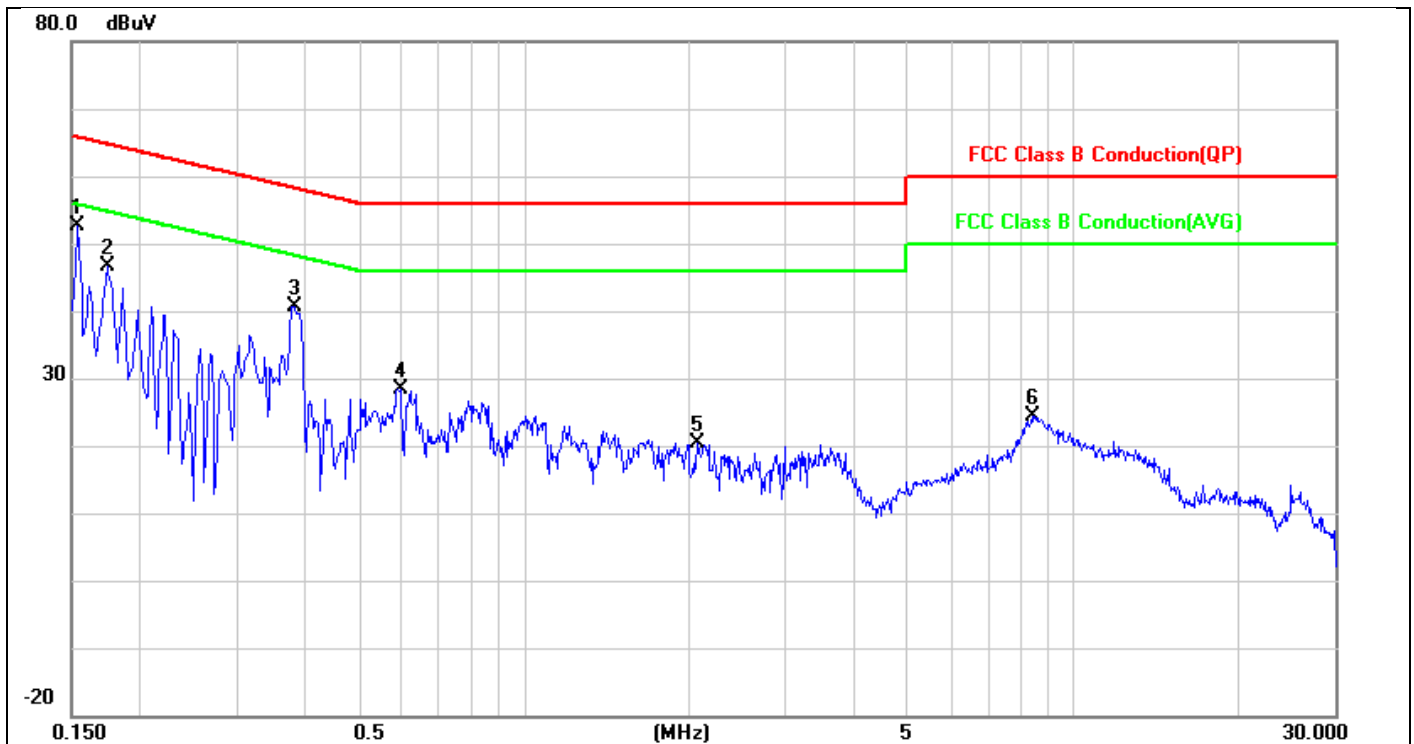
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Dipole Antenna (Part No.: GW.48.A151)

Description:	Operation	Date:	2020/02/06
Line:	L1	Temp.(°C)/Hum.(%):	20.5(°C)/67%
Test Voltage:	AC 120V/60Hz	Test By:	Thomas
Report Number:	ER-2019-B0064		



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1540	52.73	0.00	52.73	65.78	-13.05	peak	
2		0.1740	46.56	0.00	46.56	64.77	-18.21	peak	
3		0.3820	40.70	0.01	40.71	58.24	-17.53	peak	
4		0.5980	28.43	0.01	28.44	56.00	-27.56	peak	
5		2.0660	20.23	0.04	20.27	56.00	-35.73	peak	
6		8.4460	24.15	0.25	24.40	60.00	-35.60	peak	

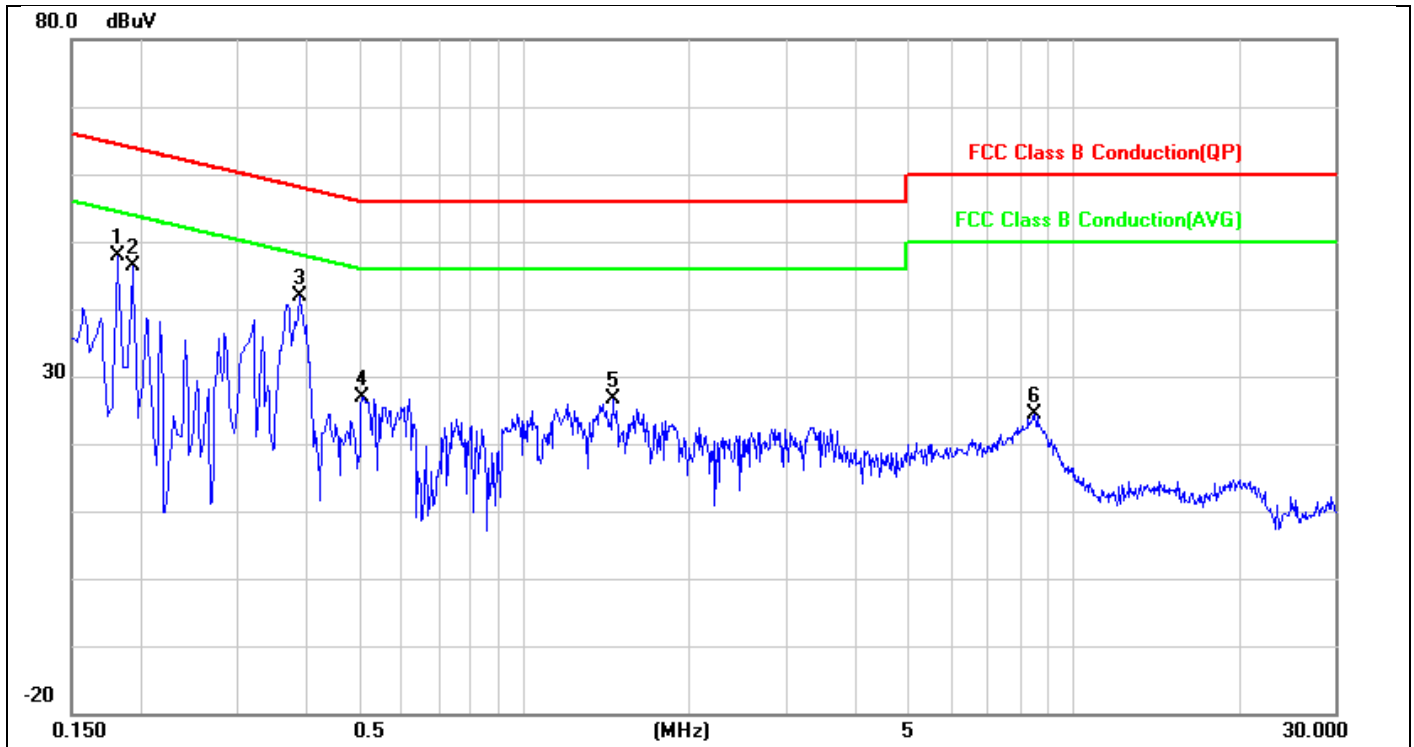
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Description: Operation
Line: N
Test Voltage: AC 120V/60Hz
Report Number: ER-2019-B0064

Date: 2020/02/06
Temp.(°C)/Hum.(%): 20.5(°C)/67%
Test By: Thomas



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1820	47.84	0.01	47.85	64.39	-16.54	peak	
2		0.1940	46.29	0.01	46.30	63.86	-17.56	peak	
3	*	0.3900	41.88	0.01	41.89	58.06	-16.17	peak	
4		0.5100	26.83	0.01	26.84	56.00	-29.16	peak	
5		1.4500	26.58	0.03	26.61	56.00	-29.39	peak	
6		8.5180	24.03	0.25	24.28	60.00	-35.72	peak	

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PCB Antenna (Part No.: ANT-X100P001B24553)

Description: Operation

Date: 2020/02/06

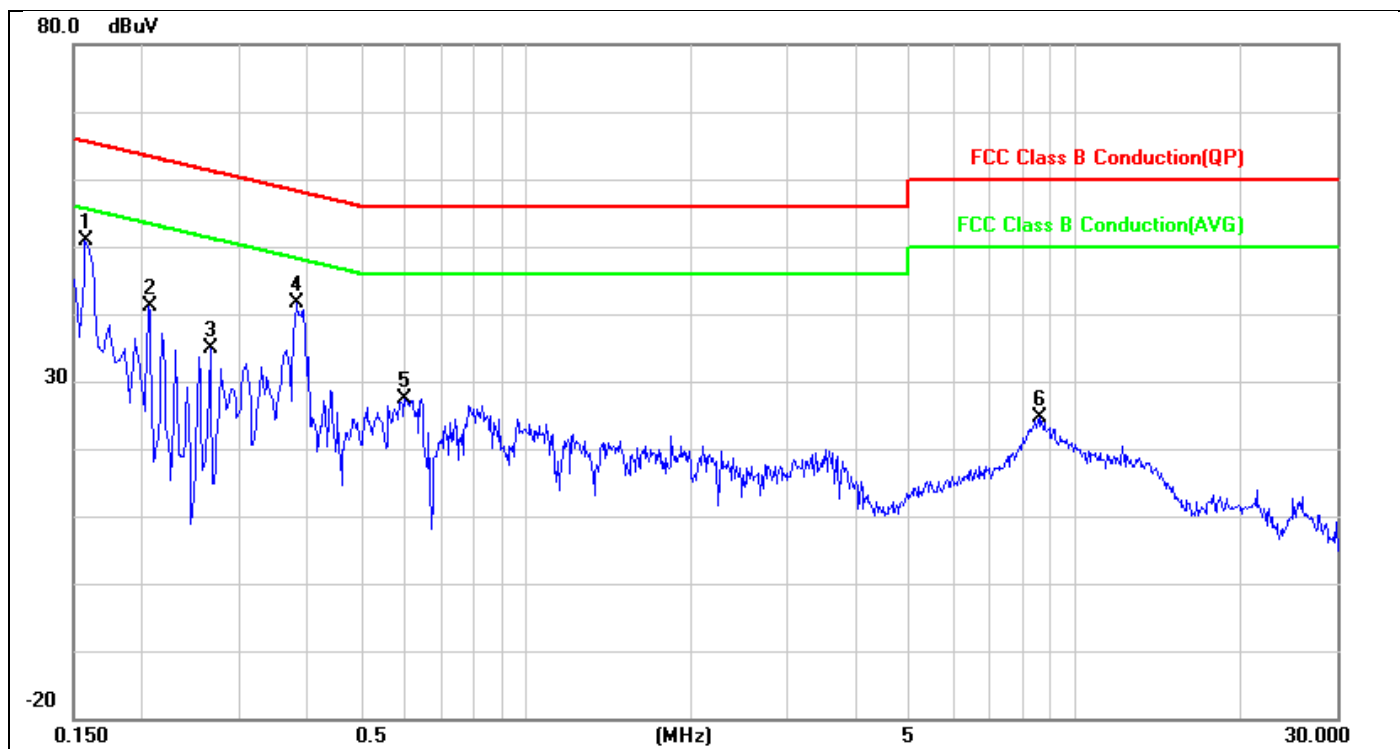
Line: L1

Temp.(°C)/Hum.(%): 20.5(°C)/67%

Test Voltage: AC 120V/60Hz

Test By: Thomas

Report Number: ER-2019-B0064



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1580	50.79	0.00	50.79	65.57	-14.78	peak	
2		0.2060	41.21	0.01	41.22	63.37	-22.15	peak	
3		0.2660	34.75	0.01	34.76	61.24	-26.48	peak	
4		0.3820	41.50	0.01	41.51	58.24	-16.73	peak	
5		0.6020	27.31	0.01	27.32	56.00	-28.68	peak	
6		8.6220	24.35	0.25	24.60	60.00	-35.40	peak	

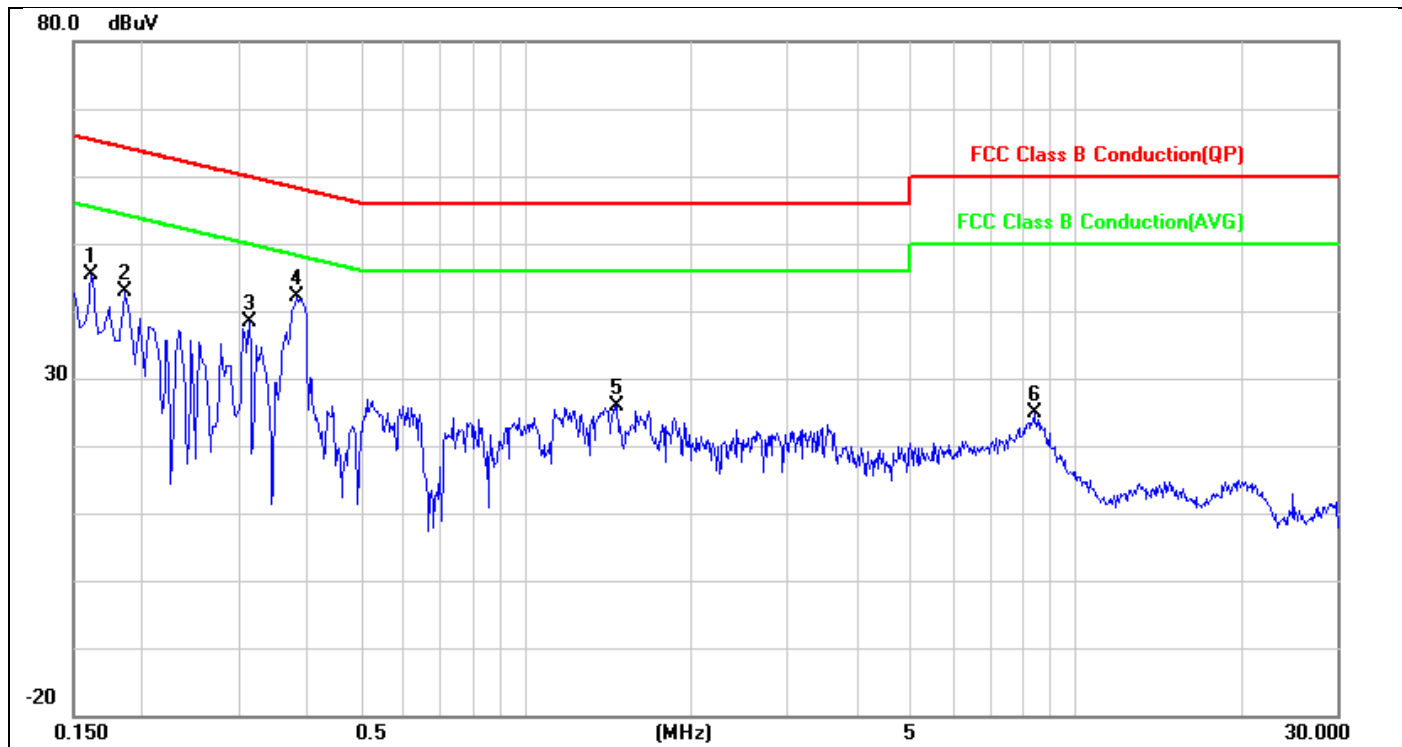
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Description: Operation
Line: N
Test Voltage: AC 120V/60Hz
Report Number: ER-2019-B0064

Date: 2020/02/06
Temp.(°C)/Hum.(%): 20.5(°C)/67%
Test By: Thomas



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1620	45.40	0.00	45.40	65.36	-19.96	peak	
2		0.1860	42.89	0.01	42.90	64.21	-21.31	peak	
3		0.3140	38.42	0.01	38.43	59.86	-21.43	peak	
4	*	0.3820	42.22	0.01	42.23	58.24	-16.01	peak	
5		1.4660	25.88	0.03	25.91	56.00	-30.09	peak	
6		8.4380	24.62	0.25	24.87	60.00	-35.13	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	98.74	0.06	0.08	0.01
802.11g	92.27	0.35	0.49	1.00
802.11n_20	88.97	0.51	1.08	2.00
802.11n_40	89.76	0.47	1.08	2.00

$$b = 98.74\%, g = 92.27\%, n_ht_20 = 88.97\% n_ht_40 = 89.76\%$$

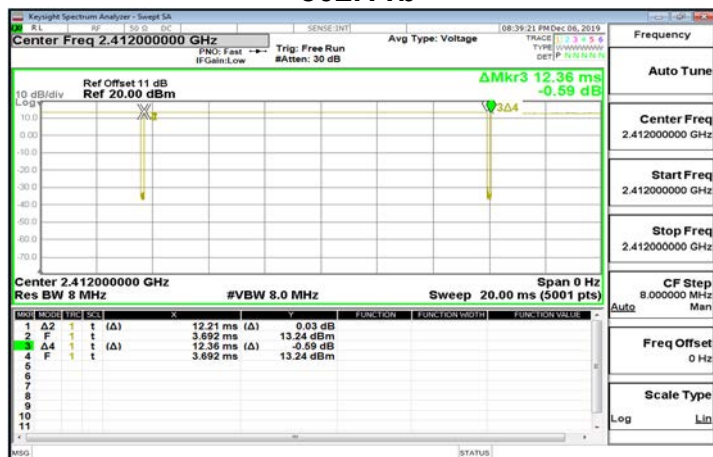
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7.3 Duty Cycle test plots

802.11b



802.11n_20



802.11g



802.11n_40



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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

Frequency(MHz)	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
2412~2462	7.61	28.39

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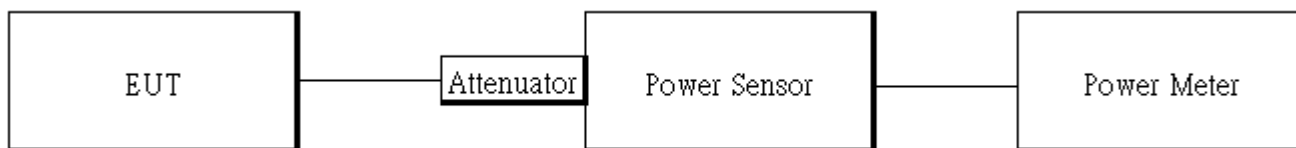
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2019	01/04/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2019	01/04/2020
Power Meter	Anritsu	ML2496A	1804001	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726104	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726107	02/13/2019	02/12/2020

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

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

Power Meter:

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

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

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

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8.5 Measurement Result

802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.22	30.00	PASS
6	2437	1	16.86	30.00	PASS
11	2462	1	17.61	30.00	PASS
802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15.70	30.00	PASS
6	2437	1	14.40	30.00	PASS
11	2462	1	15.09	30.00	PASS

802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17.05	30.00	PASS
6	2437	1	15.96	30.00	PASS
11	2462	1	16.83	30.00	PASS
802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	14.47	30.00	PASS
6	2437	1	13.51	30.00	PASS
11	2462	1	14.47	30.00	PASS

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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	18.32	17.26	20.83	28.39	PASS
6	2437	1	16.87	16.13	19.53	28.39	PASS
11	2462	1	17.64	17.09	20.38	28.39	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	15.38	14.44	18.00	28.39	PASS
6	2437	1	14.17	13.62	16.97	28.39	PASS
11	2462	1	14.96	14.42	17.76	28.39	PASS

802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	22.28	30.00	PASS
2	2417	6	23.54	30.00	PASS
3	2422	6	23.72	30.00	PASS
6	2437	6	23.83	30.00	PASS
9	2452	6	23.42	30.00	PASS
10	2457	6	22.76	30.00	PASS
11	2462	6	19.79	30.00	PASS
802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.13	30.00	PASS
2	2417	6	18.07	30.00	PASS
3	2422	6	18.28	30.00	PASS
6	2437	6	18.25	30.00	PASS
9	2452	6	18.17	30.00	PASS
10	2457	6	17.09	30.00	PASS
11	2462	6	13.38	30.00	PASS

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802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	21.37	30.00	PASS
2	2417	6	22.85	30.00	PASS
3	2422	6	23.09	30.00	PASS
6	2437	6	23.61	30.00	PASS
9	2452	6	22.86	30.00	PASS
10	2457	6	22.04	30.00	PASS
11	2462	6	19.01	30.00	PASS
802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15.33	30.00	PASS
2	2417	6	17.09	30.00	PASS
3	2422	6	17.38	30.00	PASS
6	2437	6	17.84	30.00	PASS
9	2452	6	17.29	30.00	PASS
10	2457	6	16.49	30.00	PASS
11	2462	6	12.81	30.00	PASS

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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	22.23	21.45	24.87	28.39	PASS
2	2417	6	23.51	22.61	26.09	28.39	PASS
3	2422	6	23.62	22.99	26.33	28.39	PASS
6	2437	6	23.51	23.47	26.50	28.39	PASS
9	2452	6	23.34	22.74	26.06	28.39	PASS
10	2457	6	22.64	22.07	25.37	28.39	PASS
11	2462	6	19.82	19.18	22.52	28.39	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	15.74	15.03	18.76	28.39	PASS
2	2417	6	17.54	16.74	20.52	28.39	PASS
3	2422	6	17.86	17.19	20.90	28.39	PASS
6	2437	6	17.86	17.58	21.08	28.39	PASS
9	2452	6	17.70	17.16	20.80	28.39	PASS
10	2457	6	16.72	16.29	19.87	28.39	PASS
11	2462	6	12.98	12.67	16.19	28.39	PASS

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802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	22.25	30.00	PASS
2	2417	MCS0	23.73	30.00	PASS
3	2422	MCS0	24.26	30.00	PASS
6	2437	MCS0	24.30	30.00	PASS
8	2447	MCS0	23.99	30.00	PASS
9	2452	MCS0	23.18	30.00	PASS
10	2457	MCS0	22.42	30.00	PASS
11	2462	MCS0	19.11	30.00	PASS
802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.24	30.00	PASS
2	2417	MCS0	18.25	30.00	PASS
3	2422	MCS0	19.08	30.00	PASS
6	2437	MCS0	19.13	30.00	PASS
8	2447	MCS0	18.98	30.00	PASS
9	2452	MCS0	17.72	30.00	PASS
10	2457	MCS0	16.63	30.00	PASS
11	2462	MCS0	12.94	30.00	PASS

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802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	21.46	30.00	PASS
2	2417	MCS0	22.92	30.00	PASS
3	2422	MCS0	23.72	30.00	PASS
6	2437	MCS0	22.88	30.00	PASS
8	2447	MCS0	23.42	30.00	PASS
9	2452	MCS0	22.46	30.00	PASS
10	2457	MCS0	21.62	30.00	PASS
11	2462	MCS0	18.41	30.00	PASS
802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.38	30.00	PASS
2	2417	MCS0	17.23	30.00	PASS
3	2422	MCS0	18.29	30.00	PASS
6	2437	MCS0	16.85	30.00	PASS
8	2447	MCS0	18.38	30.00	PASS
9	2452	MCS0	17.05	30.00	PASS
10	2457	MCS0	16.16	30.00	PASS
11	2462	MCS0	12.23	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	22.25	21.56	24.93	28.39	PASS
2	2417	MCS8	23.41	23.03	26.23	28.39	PASS
3	2422	MCS8	23.89	23.43	26.68	28.39	PASS
6	2437	MCS8	23.92	23.82	26.88	28.39	PASS
8	2447	MCS8	23.91	23.35	26.65	28.39	PASS
9	2452	MCS8	22.98	22.48	25.75	28.39	PASS
10	2457	MCS8	22.33	21.87	25.12	28.39	PASS
11	2462	MCS8	19.27	18.51	21.92	28.39	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	15.39	14.68	18.57	28.39	PASS
2	2417	MCS8	17.59	16.76	20.71	28.39	PASS
3	2422	MCS8	18.19	17.72	21.48	28.39	PASS
6	2437	MCS8	18.62	18.33	22.00	28.39	PASS
8	2447	MCS8	18.20	17.77	21.51	28.39	PASS
9	2452	MCS8	16.88	16.40	20.16	28.39	PASS
10	2457	MCS8	15.85	15.37	19.13	28.39	PASS
11	2462	MCS8	12.06	11.69	15.40	28.39	PASS

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802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	18.27	30.00	PASS
4	2427	MCS0	18.17	30.00	PASS
5	2432	MCS0	19.93	30.00	PASS
6	2437	MCS0	20.60	30.00	PASS
7	2442	MCS0	19.68	30.00	PASS
8	2447	MCS0	18.69	30.00	PASS
9	2452	MCS0	17.86	30.00	PASS
802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11.15	30.00	PASS
4	2427	MCS0	11.32	30.00	PASS
5	2432	MCS0	13.04	30.00	PASS
6	2437	MCS0	13.91	30.00	PASS
7	2442	MCS0	13.08	30.00	PASS
8	2447	MCS0	11.94	30.00	PASS
9	2452	MCS0	11.06	30.00	PASS

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802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	17.02	30.00	PASS
4	2427	MCS0	16.74	30.00	PASS
5	2432	MCS0	18.56	30.00	PASS
6	2437	MCS0	19.18	30.00	PASS
7	2442	MCS0	18.38	30.00	PASS
8	2447	MCS0	17.45	30.00	PASS
9	2452	MCS0	16.66	30.00	PASS
802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.36	30.00	PASS
4	2427	MCS0	10.15	30.00	PASS
5	2432	MCS0	12.00	30.00	PASS
6	2437	MCS0	13.00	30.00	PASS
7	2442	MCS0	12.09	30.00	PASS
8	2447	MCS0	11.20	30.00	PASS
9	2452	MCS0	10.23	30.00	PASS

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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	18.59	17.22	20.97	28.39	PASS
4	2427	MCS8	18.36	17.05	20.76	28.39	PASS
5	2432	MCS8	19.82	19.36	22.61	28.39	PASS
6	2437	MCS8	20.75	19.12	23.02	28.39	PASS
7	2442	MCS8	19.79	18.24	22.09	28.39	PASS
8	2447	MCS8	18.67	17.36	21.07	28.39	PASS
9	2452	MCS8	17.63	16.62	20.16	28.39	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	10.19	9.28	13.24	28.39	PASS
4	2427	MCS8	10.28	9.37	13.33	28.39	PASS
5	2432	MCS8	12.08	11.26	15.17	28.39	PASS
6	2437	MCS8	13.05	12.17	16.11	28.39	PASS
7	2442	MCS8	12.11	11.21	15.16	28.39	PASS
8	2447	MCS8	11.27	10.25	14.27	28.39	PASS
9	2452	MCS8	10.84	10.32	14.07	28.39	PASS

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

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EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	15.70	4.60	20.30	36	PASS
6	2437	1	14.40	4.60	19.00	36	PASS
11	2462	1	15.09	4.60	19.69	36	PASS

802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	14.47	4.60	19.07	36	PASS
6	2437	1	13.51	4.60	18.11	36	PASS
11	2462	1	14.47	4.60	19.07	36	PASS

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	15.38	14.44	18.00	7.61	25.61	36	PASS
6	2437	1	14.17	13.62	16.97	7.61	24.58	36	PASS
11	2462	1	14.96	14.42	17.76	7.61	25.37	36	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	16.13	4.60	20.73	36	PASS
2	2417	6	18.07	4.60	22.67	36	PASS
3	2422	6	18.28	4.60	22.88	36	PASS
6	2437	6	18.25	4.60	22.85	36	PASS
9	2452	6	18.17	4.60	22.77	36	PASS
10	2457	6	17.09	4.60	21.69	36	PASS
11	2462	6	13.38	4.60	17.98	36	PASS

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802.11g Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	15.33	4.60	19.93	36	PASS
2	2417	6	17.09	4.60	21.69	36	PASS
3	2422	6	17.38	4.60	21.98	36	PASS
6	2437	6	17.84	4.60	22.44	36	PASS
9	2452	6	17.29	4.60	21.89	36	PASS
10	2457	6	16.49	4.60	21.09	36	PASS
11	2462	6	12.81	4.60	17.41	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	15.74	15.03	18.76	7.61	26.37	36	PASS
2	2417	6	17.54	16.74	20.52	7.61	28.13	36	PASS
3	2422	6	17.86	17.19	20.90	7.61	28.51	36	PASS
6	2437	6	17.86	17.58	21.08	7.61	28.69	36	PASS
9	2452	6	17.70	17.16	20.80	7.61	28.41	36	PASS
10	2457	6	16.72	16.29	19.87	7.61	27.48	36	PASS
11	2462	6	12.98	12.67	16.19	7.61	23.80	36	PASS

802.11n_HT20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.24	4.60	20.84	36	PASS
2	2417	MCS0	18.25	4.60	22.85	36	PASS
3	2422	MCS0	19.08	4.60	23.68	36	PASS
6	2437	MCS0	19.13	4.60	23.73	36	PASS
8	2447	MCS0	18.98	4.60	23.58	36	PASS
9	2452	MCS0	17.72	4.60	22.32	36	PASS
10	2457	MCS0	16.63	4.60	21.23	36	PASS
11	2462	MCS0	12.94	4.60	17.54	36	PASS

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802.11n_HT20M Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.38	4.60	19.98	36	PASS
2	2417	MCS0	17.23	4.60	21.83	36	PASS
3	2422	MCS0	18.29	4.60	22.89	36	PASS
6	2437	MCS0	16.85	4.60	21.45	36	PASS
8	2447	MCS0	18.38	4.60	22.98	36	PASS
9	2452	MCS0	17.05	4.60	21.65	36	PASS
10	2457	MCS0	16.16	4.60	20.76	36	PASS
11	2462	MCS0	12.23	4.60	16.83	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	15.39	14.68	18.57	7.61	26.18	36	PASS
2	2417	MCS8	17.59	16.76	20.71	7.61	28.32	36	PASS
3	2422	MCS8	18.19	17.72	21.48	7.61	29.09	36	PASS
6	2437	MCS8	18.62	18.33	22.00	7.61	29.61	36	PASS
8	2447	MCS8	18.20	17.77	21.51	7.61	29.12	36	PASS
9	2452	MCS8	16.88	16.40	20.16	7.61	27.77	36	PASS
10	2457	MCS8	15.85	15.37	19.13	7.61	26.74	36	PASS
11	2462	MCS8	12.06	11.69	15.40	7.61	23.01	36	PASS

802.11n_HT40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11.15	4.60	15.75	36	PASS
4	2427	MCS0	11.32	4.60	15.92	36	PASS
5	2432	MCS0	13.04	4.60	17.64	36	PASS
6	2437	MCS0	13.91	4.60	18.51	36	PASS
7	2442	MCS0	13.08	4.60	17.68	36	PASS
8	2447	MCS0	11.94	4.60	16.54	36	PASS
9	2452	MCS0	11.06	4.60	15.66	36	PASS

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802.11n_HT40M Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.36	4.60	14.96	36	PASS
4	2427	MCS0	10.15	4.60	14.75	36	PASS
5	2432	MCS0	12.00	4.60	16.60	36	PASS
6	2437	MCS0	13.00	4.60	17.60	36	PASS
7	2442	MCS0	12.09	4.60	16.69	36	PASS
8	2447	MCS0	11.20	4.60	15.80	36	PASS
9	2452	MCS0	10.23	4.60	14.83	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	10.19	9.28	13.24	7.61	20.85	36	PASS
4	2427	MCS8	10.28	9.37	13.33	7.61	20.94	36	PASS
5	2432	MCS8	12.08	11.26	15.17	7.61	22.78	36	PASS
6	2437	MCS8	13.05	12.17	16.11	7.61	23.72	36	PASS
7	2442	MCS8	12.11	11.21	15.16	7.61	22.77	36	PASS
8	2447	MCS8	11.27	10.25	14.27	7.61	21.88	36	PASS
9	2452	MCS8	10.84	10.32	14.07	7.61	21.68	36	PASS

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9 6DB & 99% BANDWIDTH MEASUREMENT

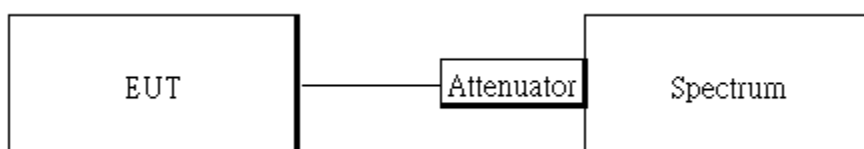
9.1 Standard Applicable

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	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2019	01/05/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/04/2019	01/04/2020

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = large enough to capture all products of the modulation process, Detector=peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. 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.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 6dB Bandwidth

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16320.00	> 500	PASS
2437	16360.00	> 500	PASS
2462	16300.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16050.00	> 500	PASS
2437	16340.00	> 500	PASS
2462	16320.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16800.00	> 500	PASS
2437	17550.00	> 500	PASS
2462	16830.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16930.00	> 500	PASS
2437	16930.00	> 500	PASS
2462	16590.00	> 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35180.00	> 500	PASS
2437	35800.00	> 500	PASS
2452	35380.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35350.00	> 500	PASS
2437	36350.00	> 500	PASS
2452	35730.00	> 500	PASS

*Refer to next page for plots

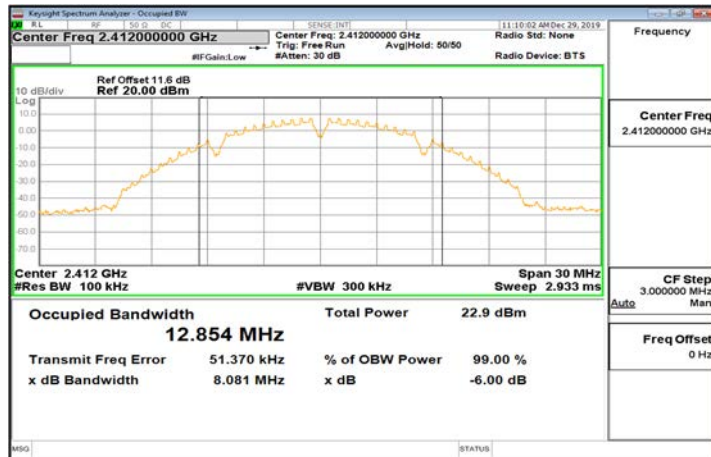
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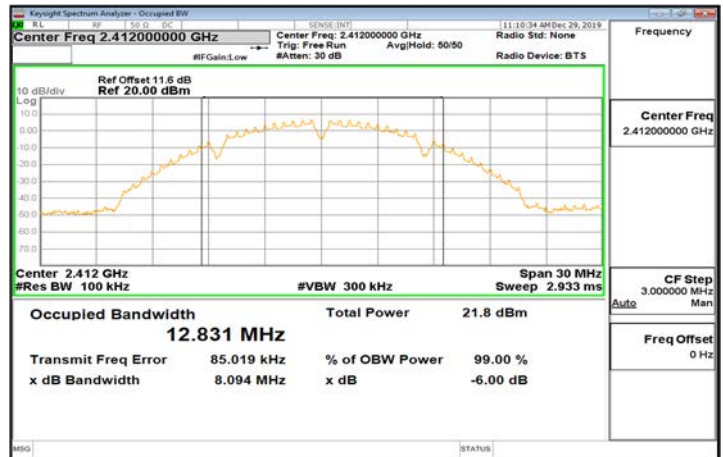
802.11b (CH0)

6dB Band Width Test Data CH-2412MHz

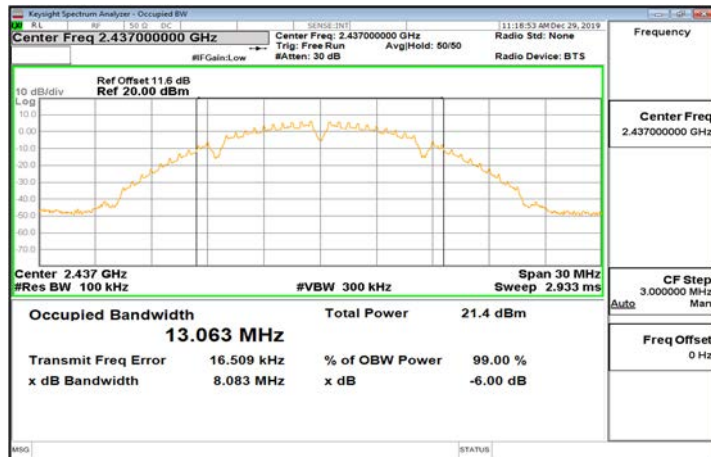


802.11b (CH1)

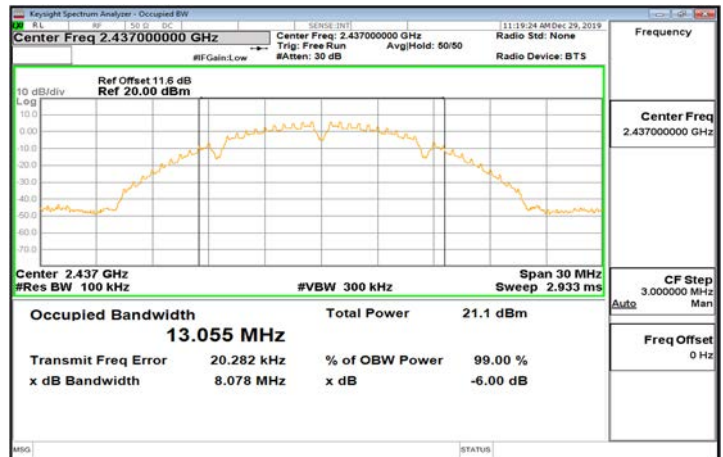
6dB Band Width Test Data CH-2412MHz



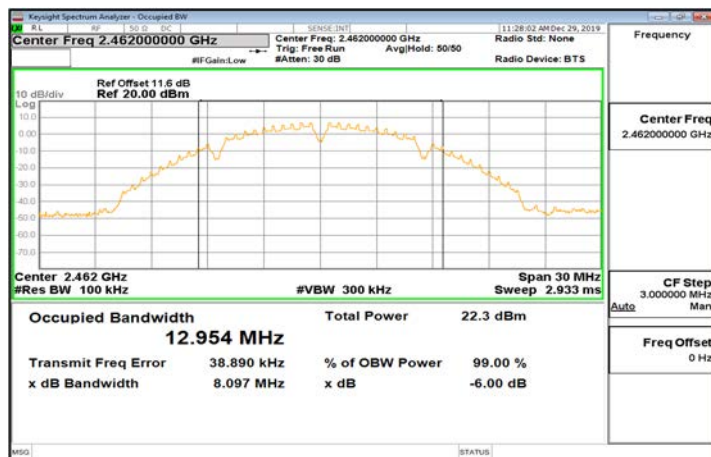
6dB Band Width Test Data CH-2437MHz



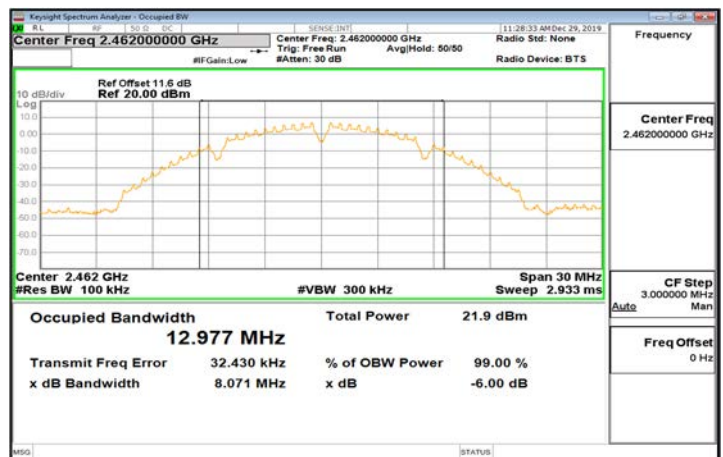
6dB Band Width Test Data CH-2437MHz



6dB Band Width Test Data CH-2462MHz



6dB Band Width Test Data CH-2462MHz



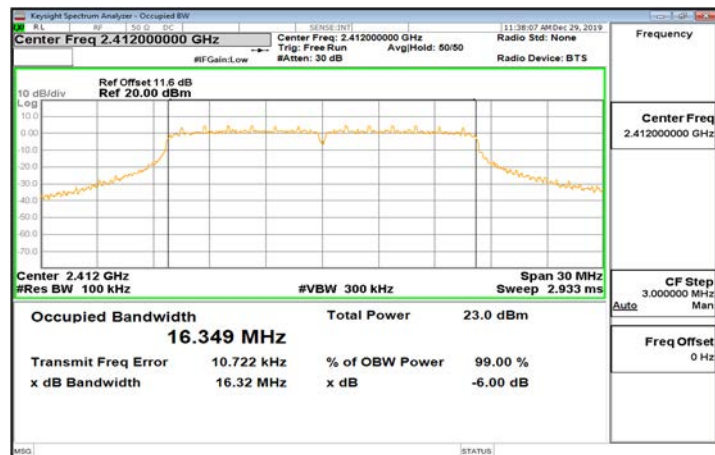
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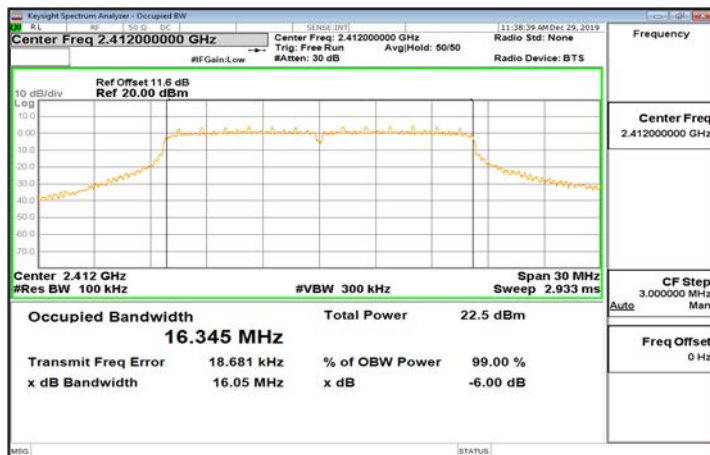
802.11g (CH0)

6dB Band Width Test Data CH-2412MHz

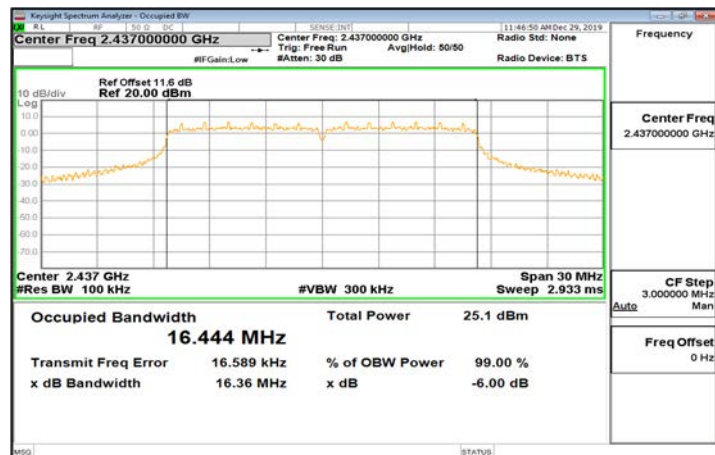


802.11g (CH1)

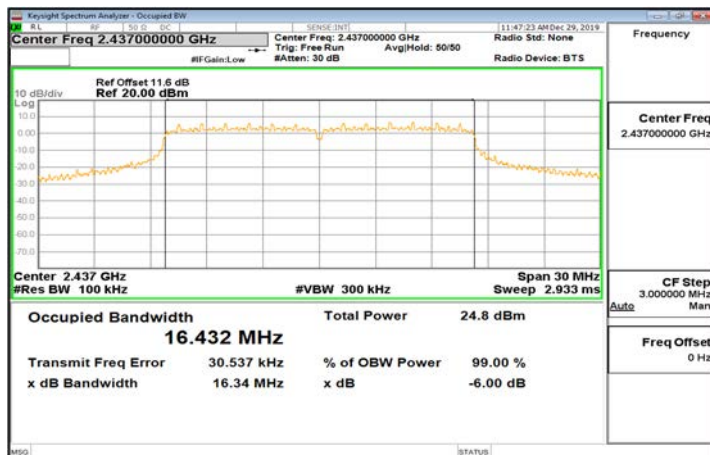
6dB Band Width Test Data CH-2412MHz



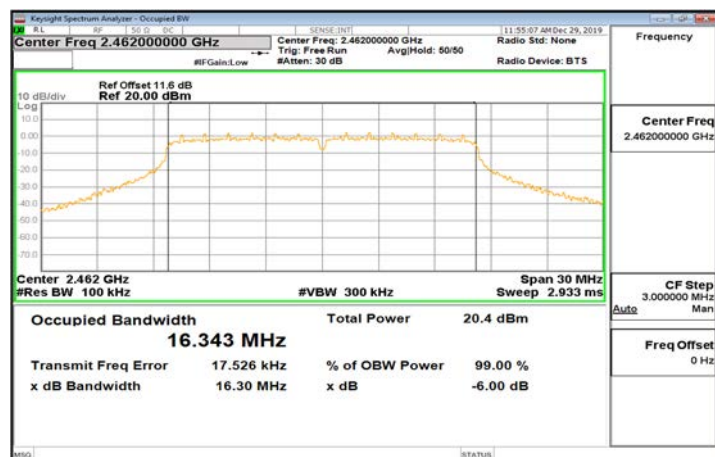
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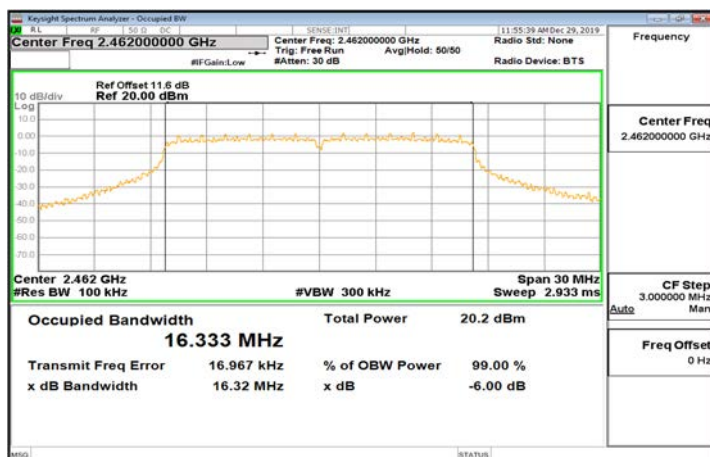
6dB Band Width Test Data CH-2437MHz



6dB Band Width Test Data CH-2462MHz



6dB Band Width Test Data CH-2462MHz



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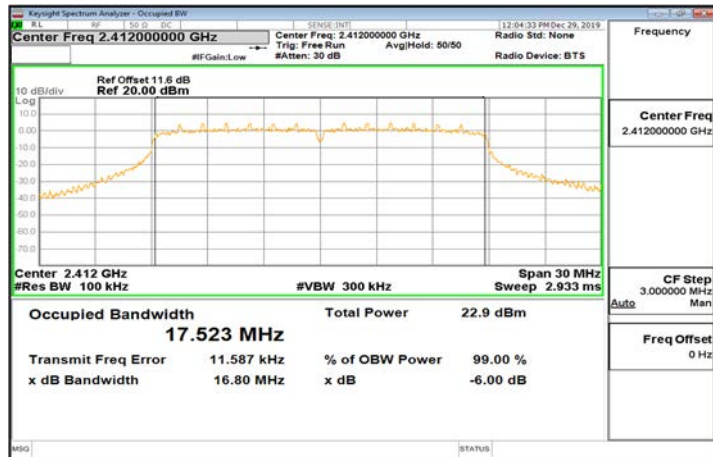
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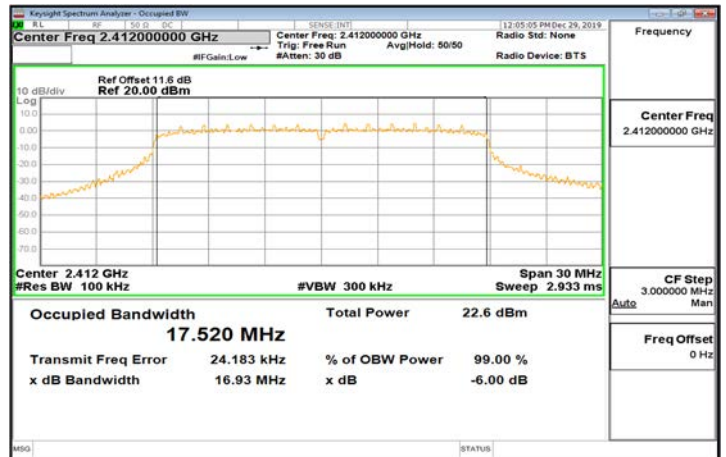
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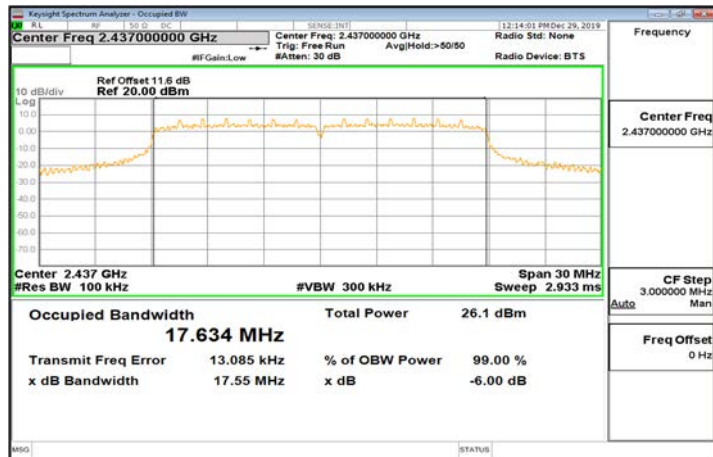
802.11n_20M (CH0)
6dB Band Width Test Data CH-2412MHz



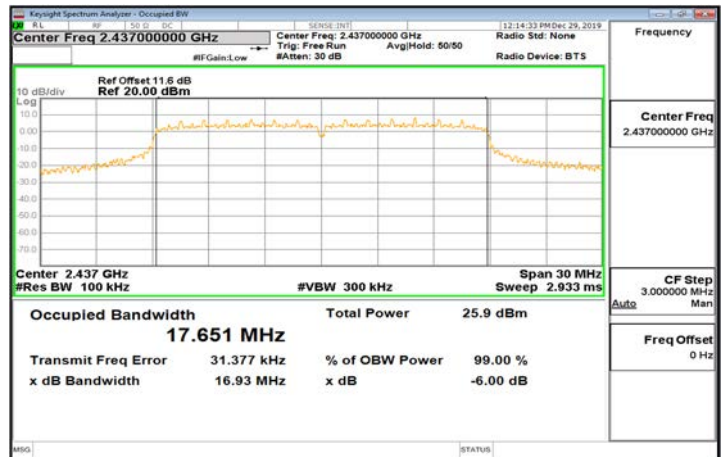
802.11n_20M (CH1)
6dB Band Width Test Data CH-2412MHz



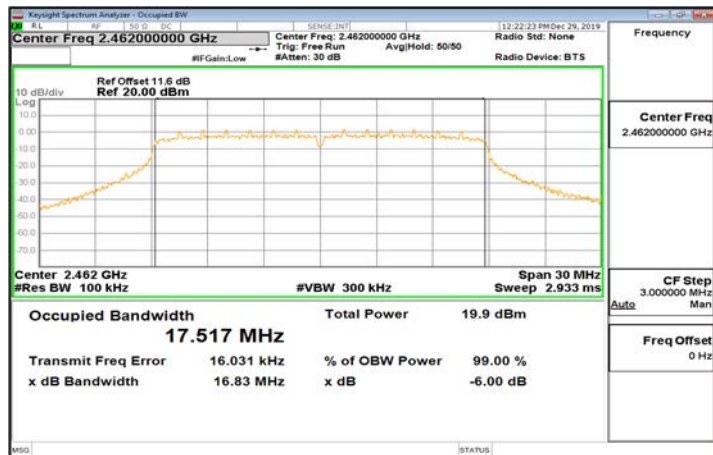
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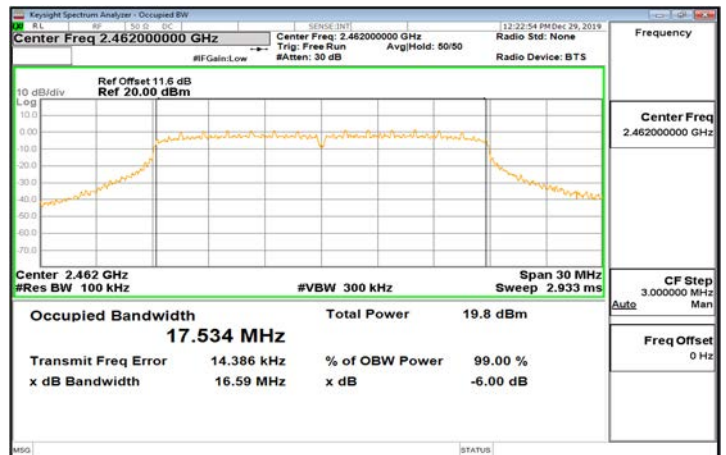
6dB Band Width Test Data CH-2437MHz



6dB Band Width Test Data CH-2462MHz



6dB Band Width Test Data CH-2462MHz

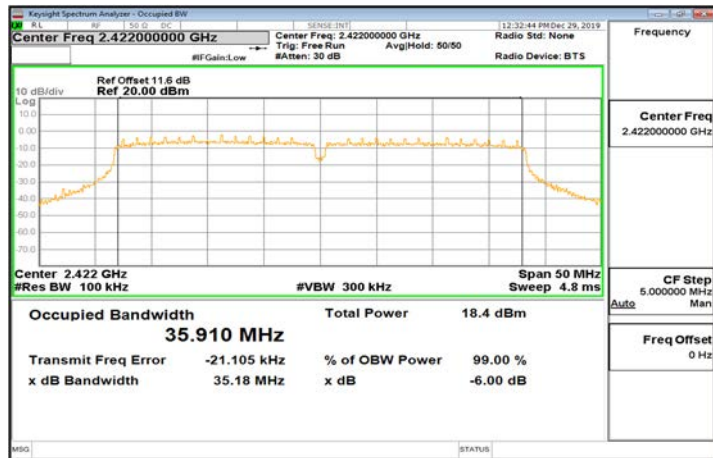


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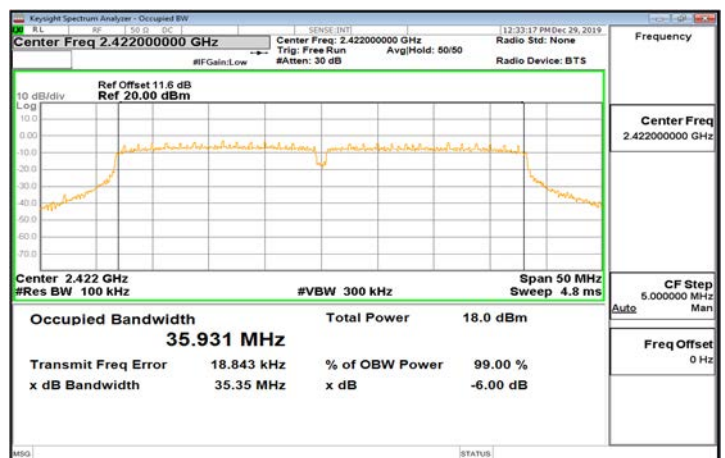
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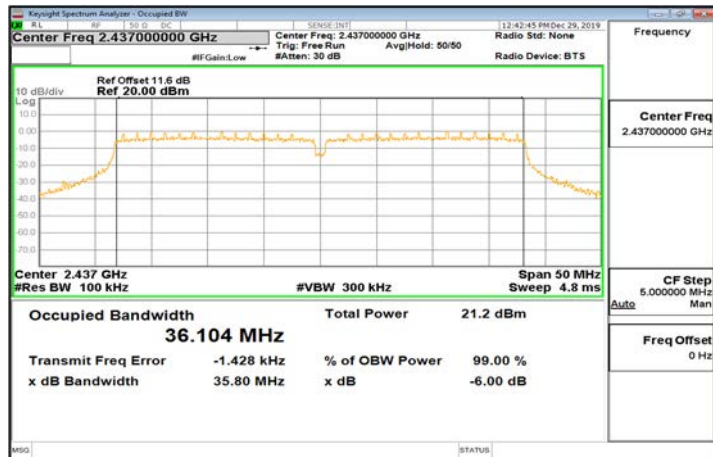
802.11n_40M (CH0)
6dB Band Width Test Data CH-2422MHz



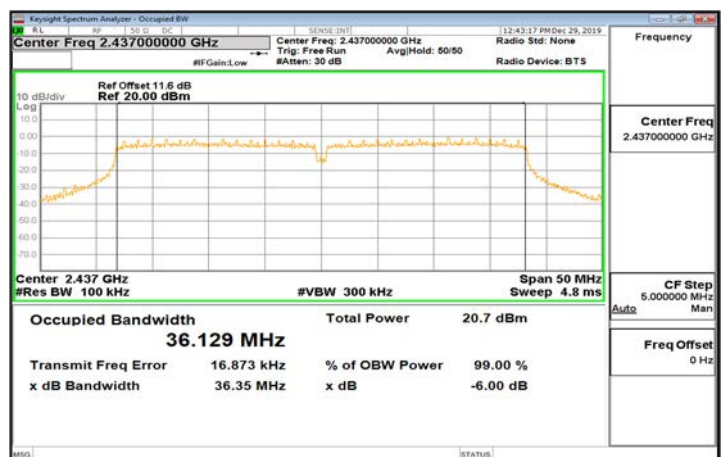
802.11n_40M (CH1)
6dB Band Width Test Data CH-2422MHz



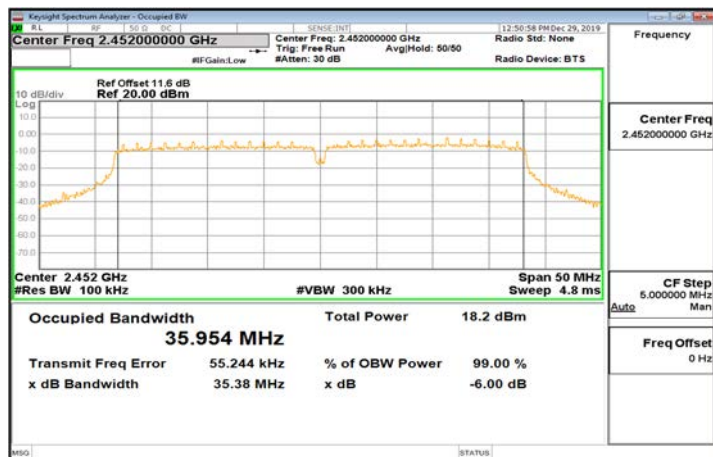
6dB Band Width Test Data CH-2437MHz



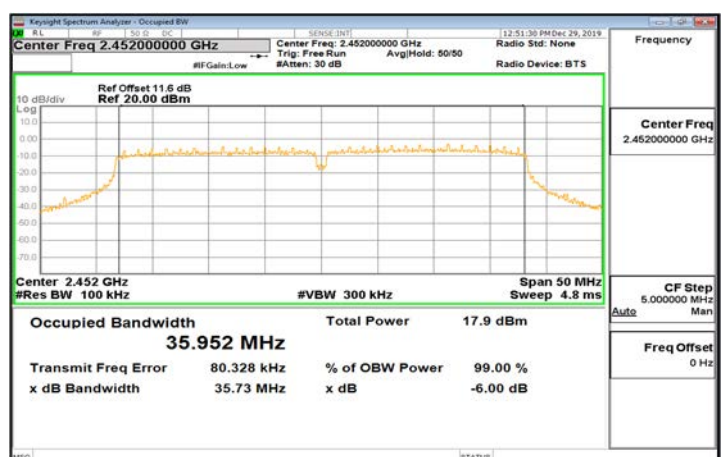
6dB Band Width Test Data CH-2437MHz



6dB Band Width Test Data CH-2452MHz



6dB Band Width Test Data CH-2452MHz



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9.6 99% Bandwidth

802.11b Ch0		802.11b Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	12.897	2412	12.893
2437	13.123	2437	13.094
2462	12.961	2462	13.012

802.11g Ch0		802.11g Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	16.477	2412	16.422
2437	16.656	2437	16.61
2462	16.462	2462	16.421

802.11n_HT20M Ch0		802.11n_HT20M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	17.58	2412	17.566
2437	17.836	2437	17.763
2462	17.576	2462	17.55

802.11n_HT40M Ch0		802.11n_HT40M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	36.157	2422	36.059
2437	36.358	2437	36.265
2452	36.204	2452	36.089

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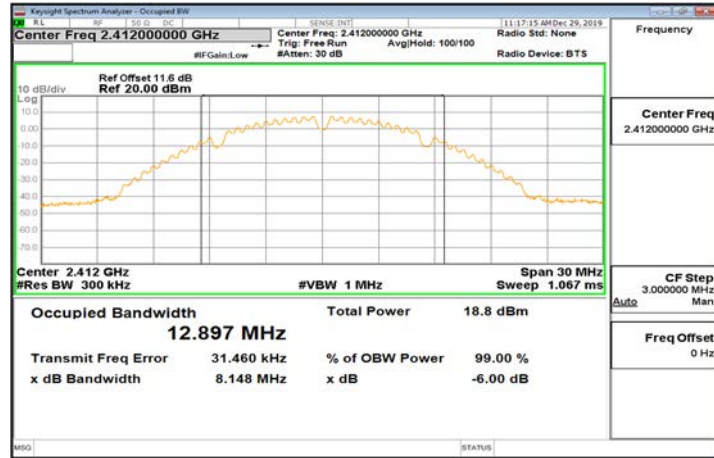
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

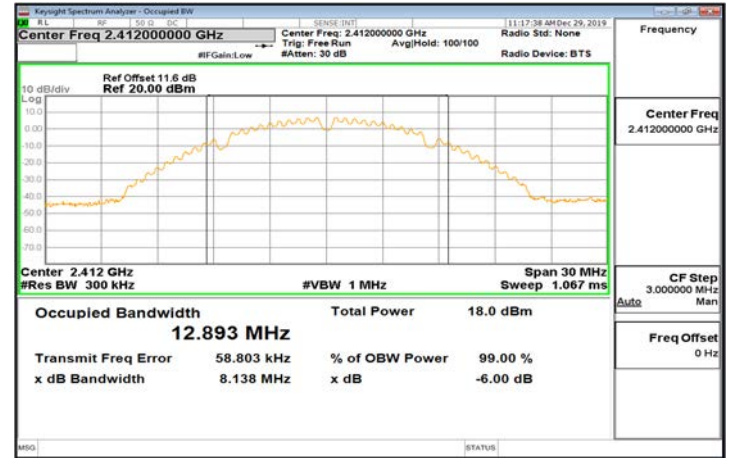
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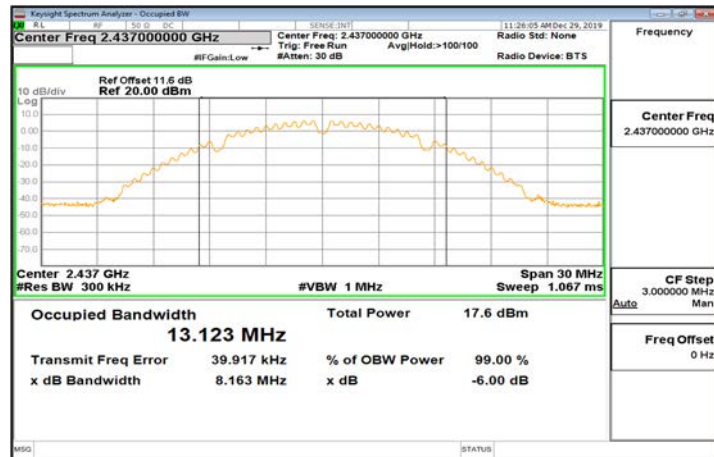
802.11b (CH0) 99% Band Width Test Data CH-2412MHz



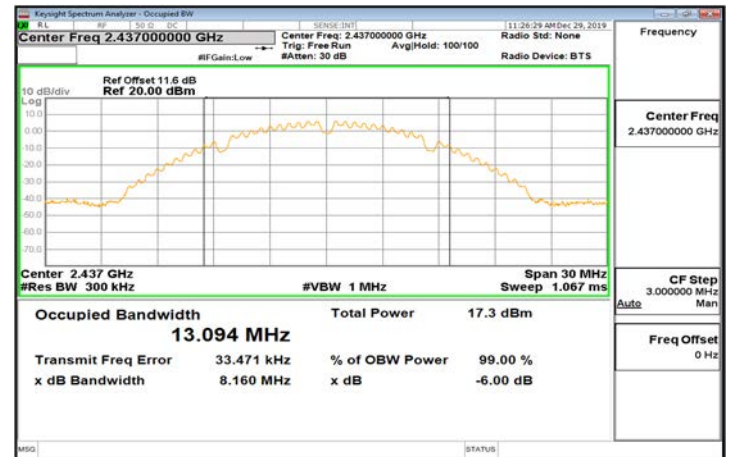
802.11b (CH1) 99% Band Width Test Data CH-2412MHz



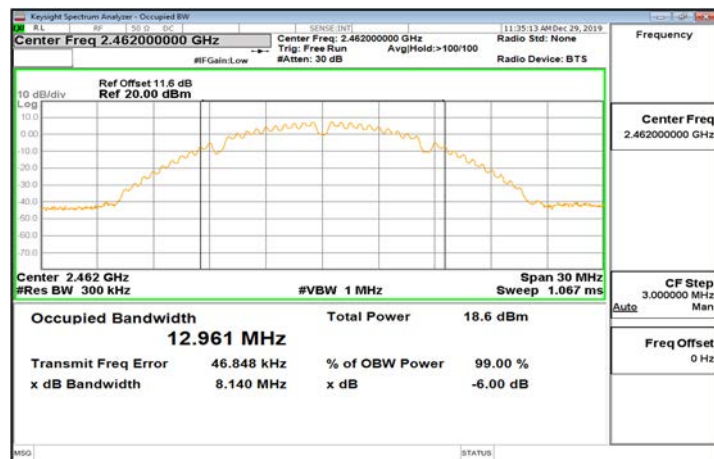
99% Band Width Test Data CH-2437MHz



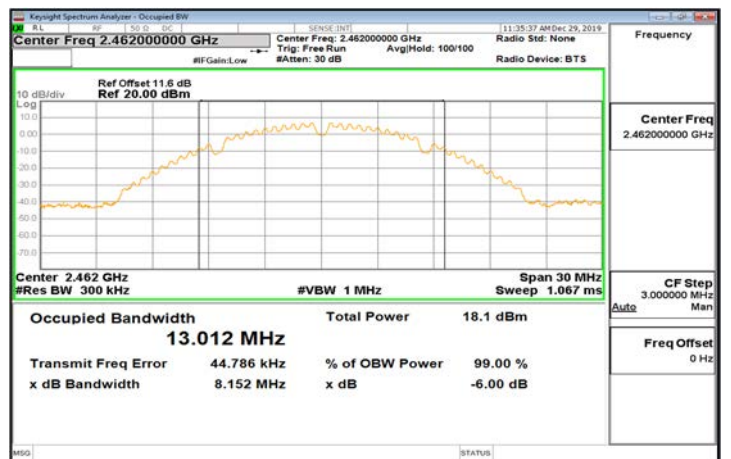
99% Band Width Test Data CH-2437MHz



99% Band Width Test Data CH-2462MHz



99% Band Width Test Data CH-2462MHz

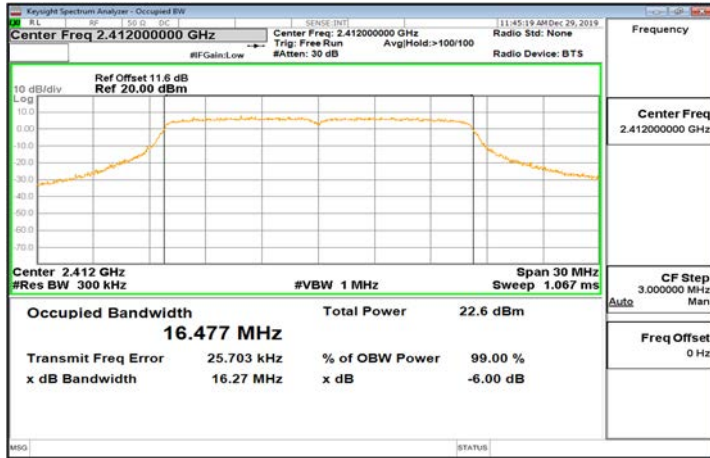


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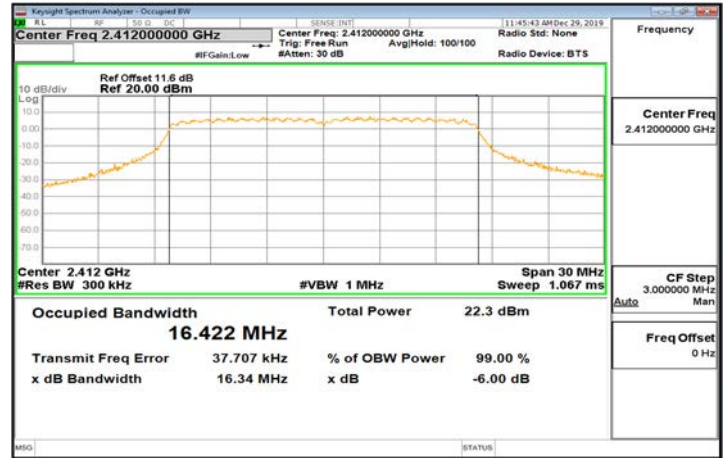
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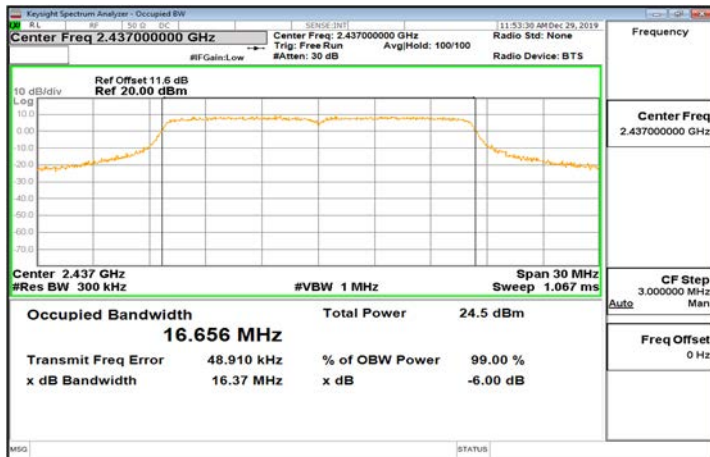
802.11g (CH0)
99% Band Width Test Data CH-2412MHz



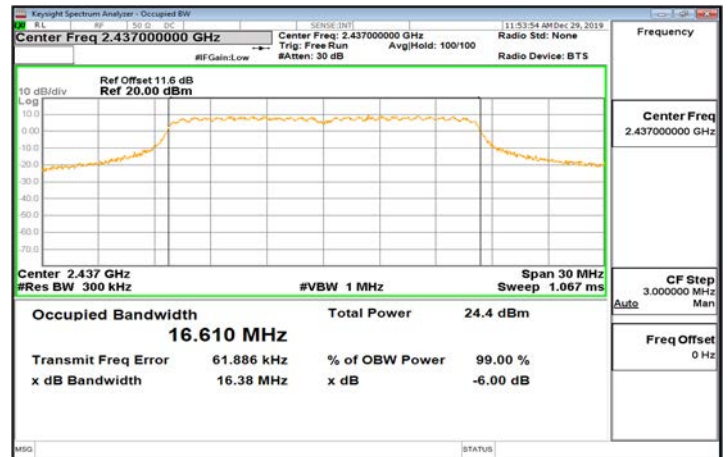
802.11g (CH1)
99% Band Width Test Data CH-2412MHz



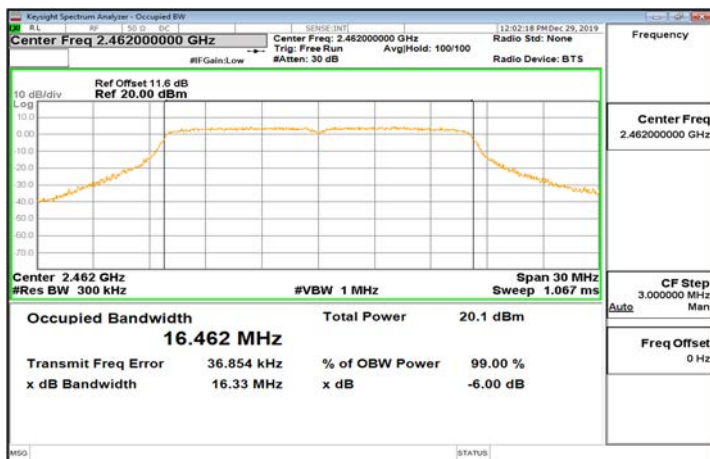
99% Band Width Test Data CH-2437MHz



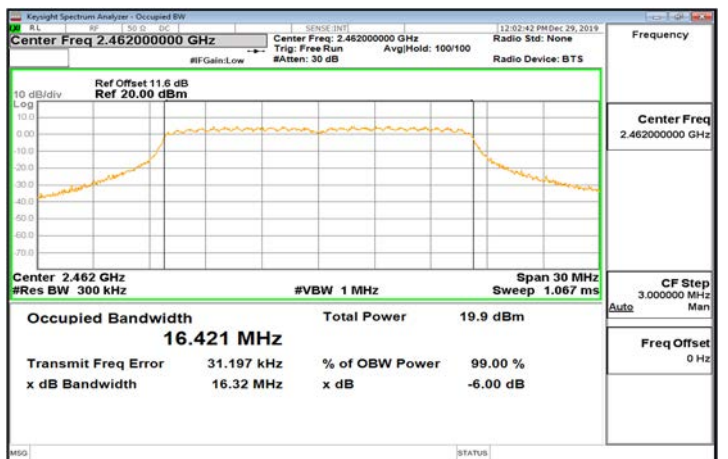
99% Band Width Test Data CH-2437MHz



99% Band Width Test Data CH-2462MHz



99% Band Width Test Data CH-2462MHz

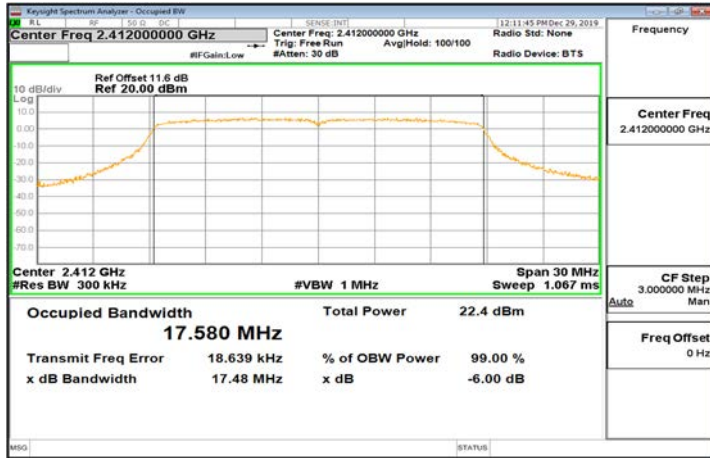


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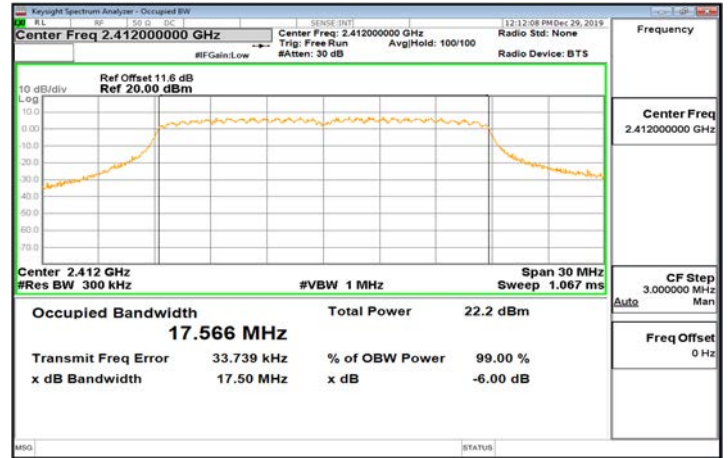
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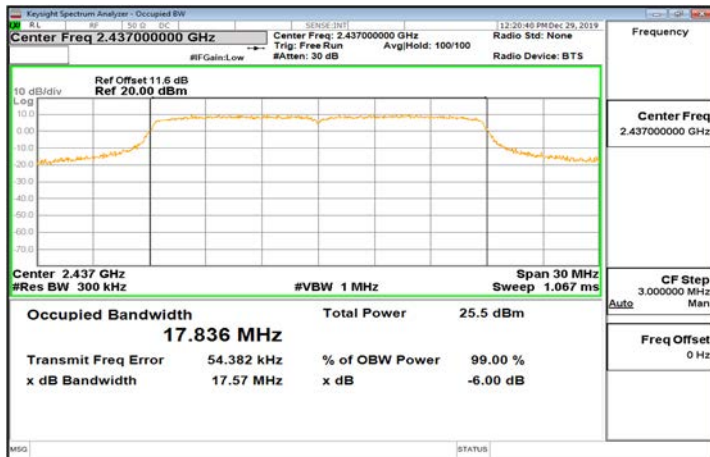
802.11n_20M (CH0)
99% Band Width Test Data CH-2412MHz



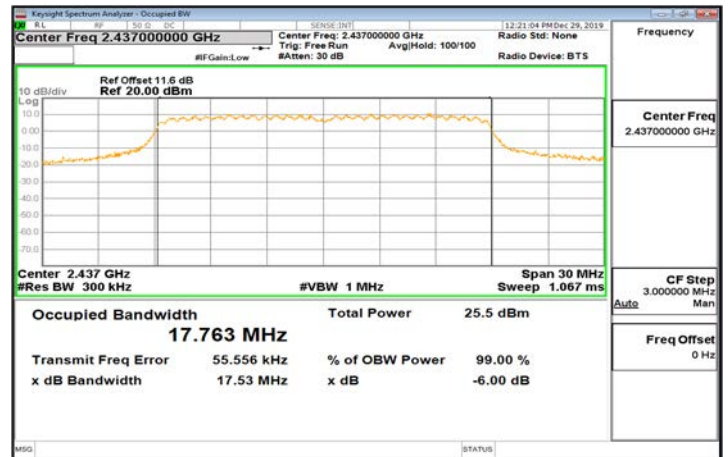
802.11n_20M (CH1)
99% Band Width Test Data CH-2412MHz



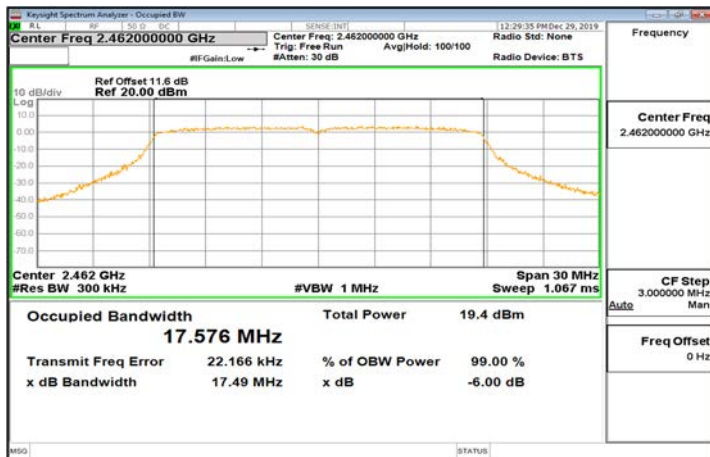
99% Band Width Test Data CH-2437MHz



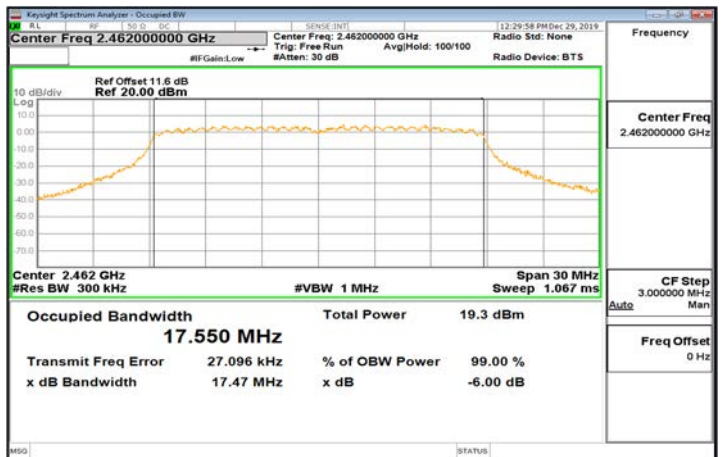
99% Band Width Test Data CH-2437MHz



99% Band Width Test Data CH-2462MHz



99% Band Width Test Data CH-2462MHz

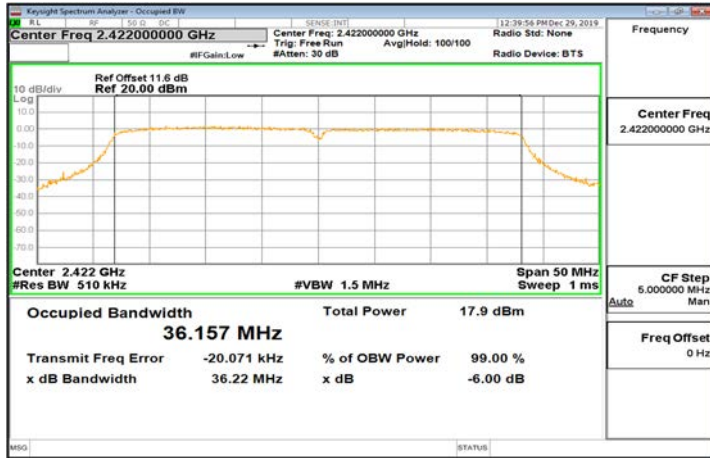


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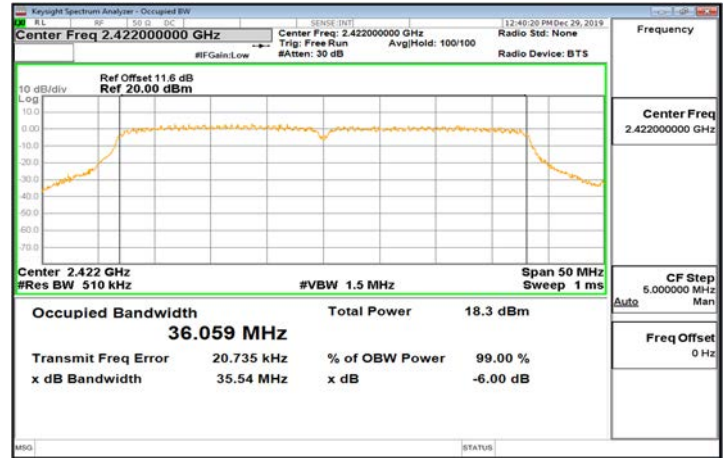
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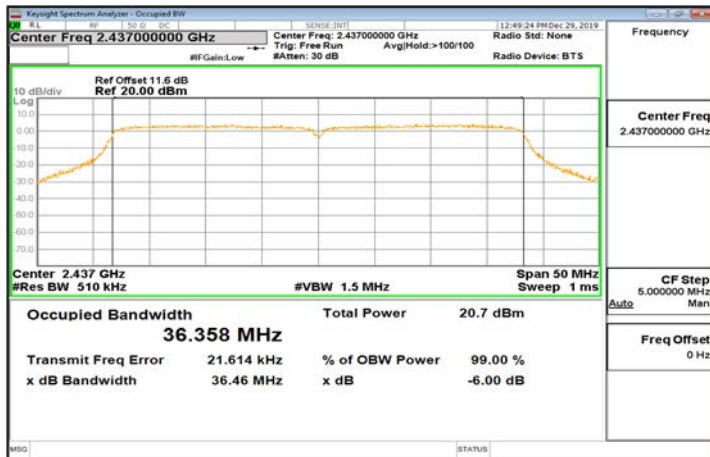
802.11n_40M (CH0)
99% Band Width Test Data CH-2422MHz



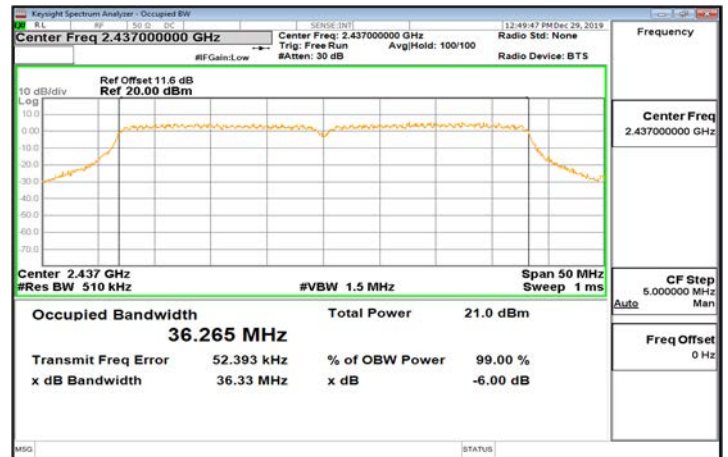
802.11n_40M (CH1)
99% Band Width Test Data CH-2422MHz



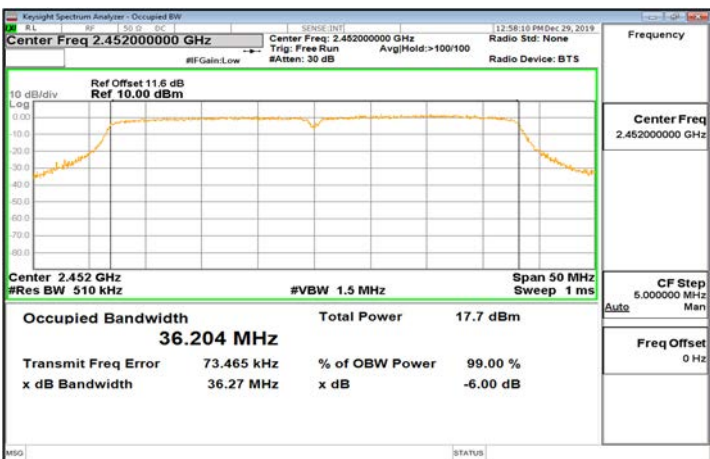
99% Band Width Test Data CH-2437MHz



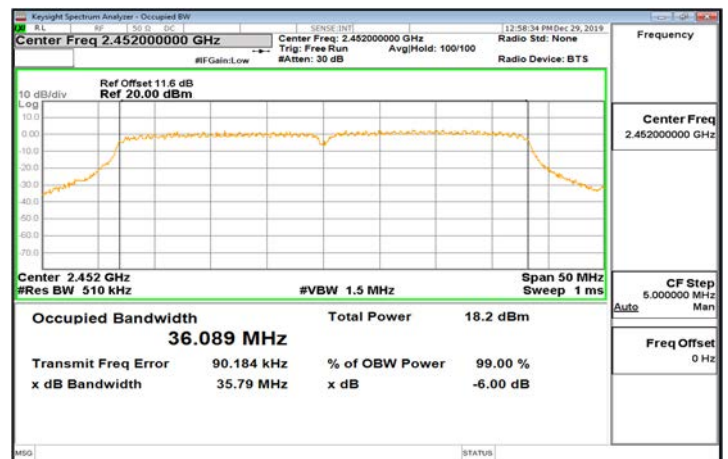
99% Band Width Test Data CH-2437MHz



99% Band Width Test Data CH-2452MHz



99% Band Width Test Data CH-2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

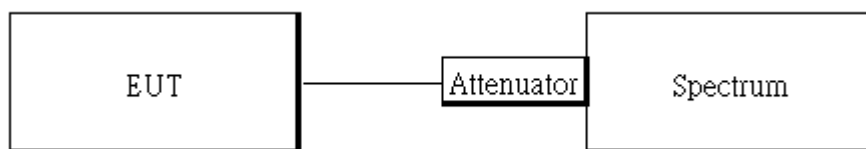
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

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

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2019	01/04/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2019	01/04/2020

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.
Use the peak marker function to determine the maximum amplitude level.
9. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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.
10. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

Note:

For test 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.

10.5 Measurement Result

Reference Level of Limit 802.11b mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.26	-9.74	2412	7.88	-12.12
2437	9.15	-10.85	2437	9.90	-10.10
2462	10.02	-9.98	2462	5.04	-14.96

Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	7.61	-12.39	2422	0.86	-19.14
2437	10.91	-9.09	2437	3.20	-16.80
2462	4.87	-15.13	2452	0.86	-19.14

Note

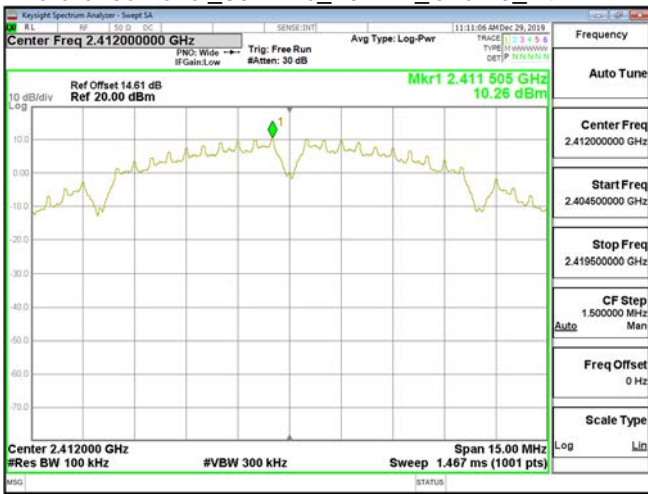
Cable Loss 11.60 dB

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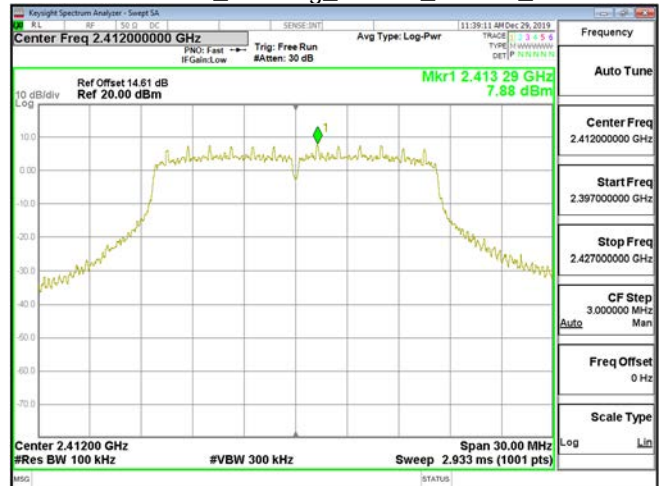
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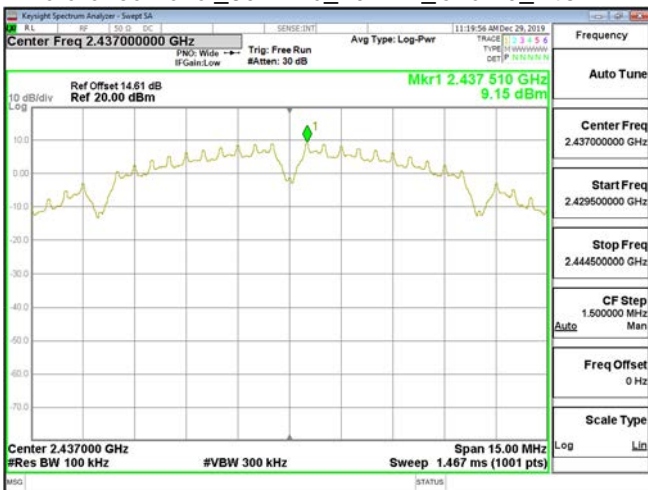
Reference Level_802.11b_20MHz_Chain0_2412MHz



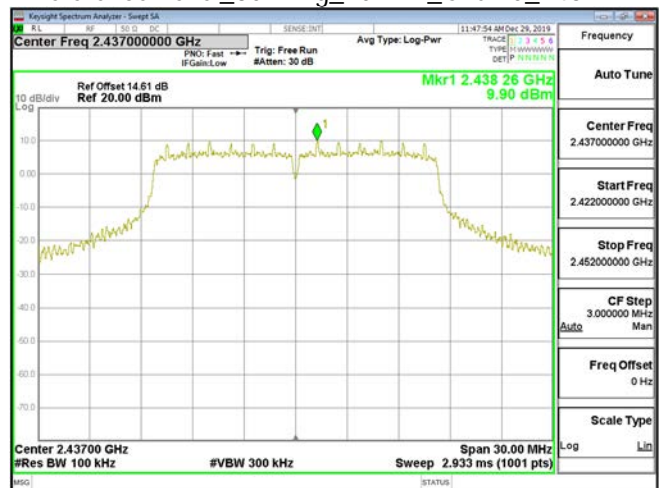
Reference Level_802.11g_20MHz_Chain0_2412MHz



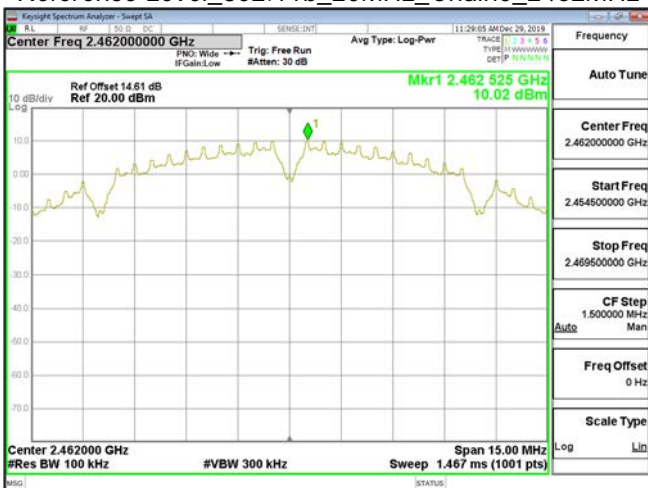
Reference Level_802.11b_20MHz_Chain0_2437MHz



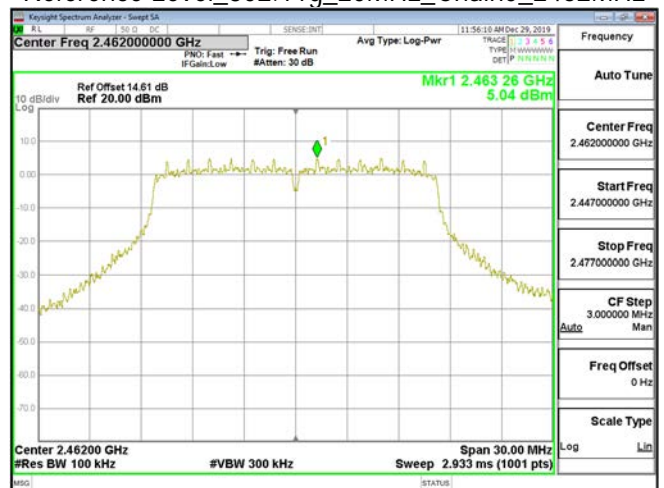
Reference Level_802.11g_20MHz_Chain0_2437MHz



Reference Level_802.11b_20MHz_Chain0_2462MHz



Reference Level_802.11g_20MHz_Chain0_2462MHz



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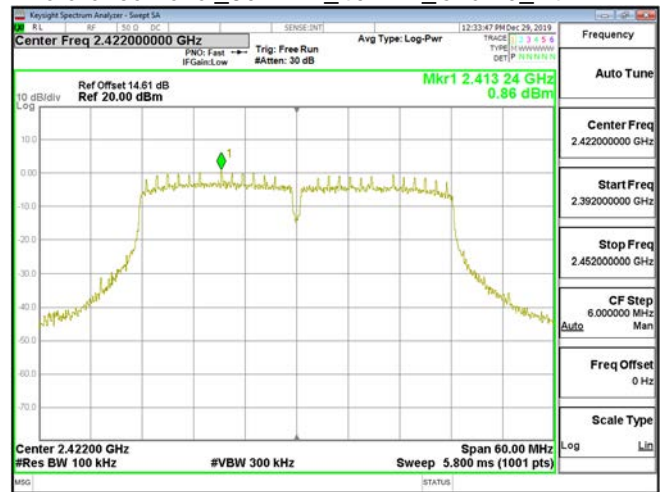
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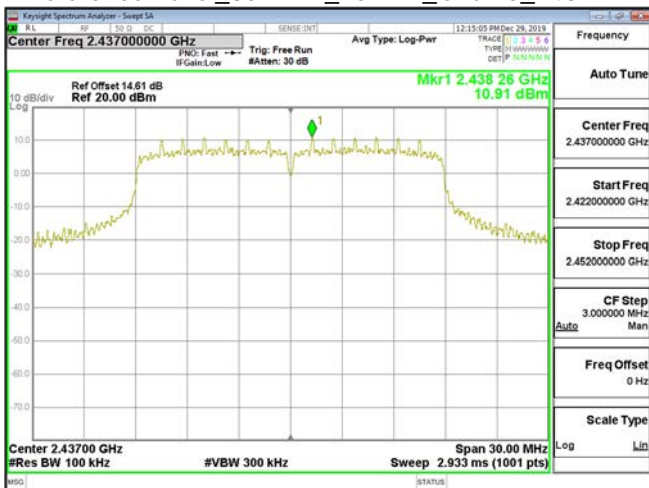
Reference Level_802.11n_20MHz_Chain0_2412MHz



Reference Level_802.11n_40MHz_Chain0_2422MHz



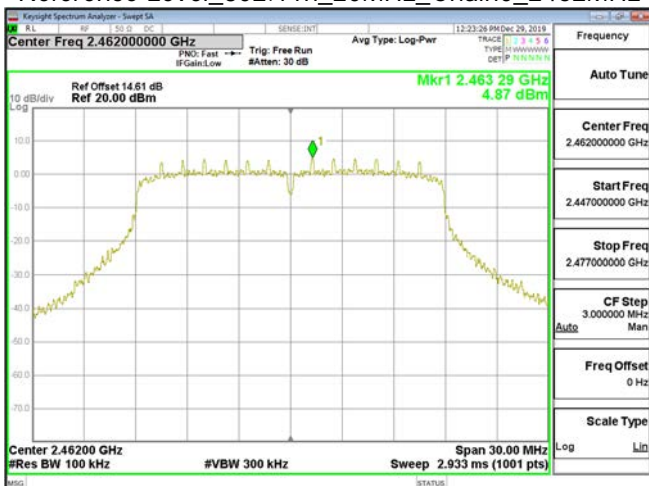
Reference Level_802.11n_20MHz_Chain0_2437MHz



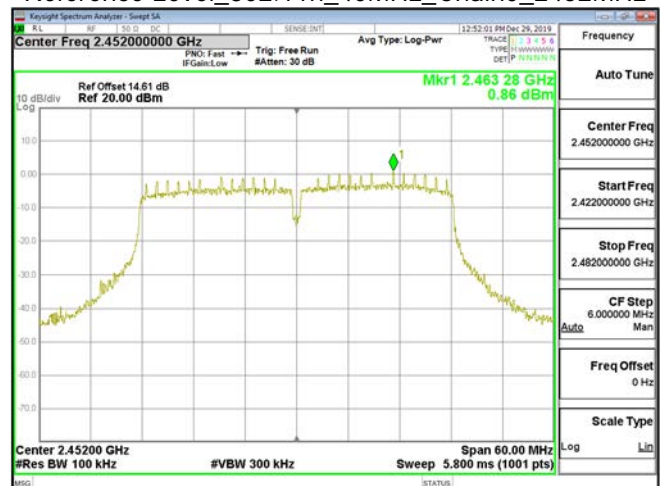
Reference Level_802.11n_40MHz_Chain0_2437MHz



Reference Level_802.11n_20MHz_Chain0_2462MHz



Reference Level_802.11n_40MHz_Chain0_2452MHz

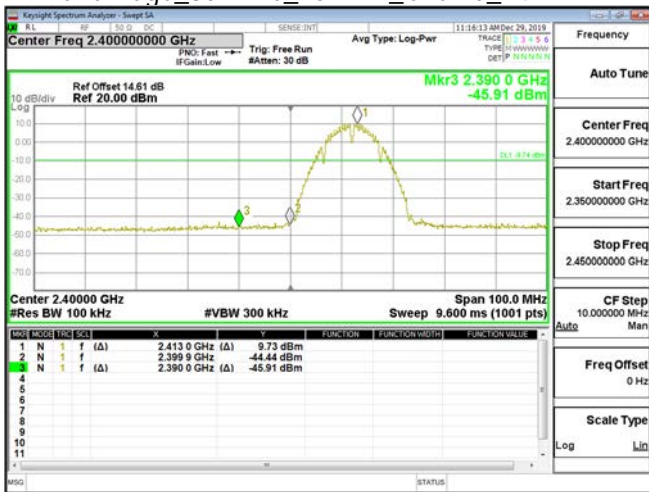


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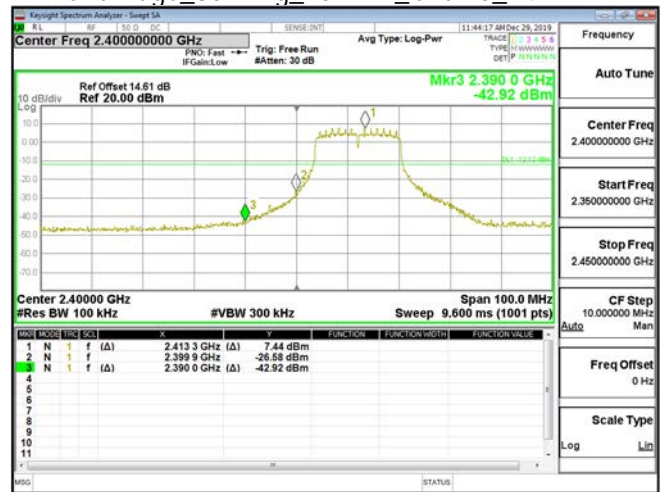
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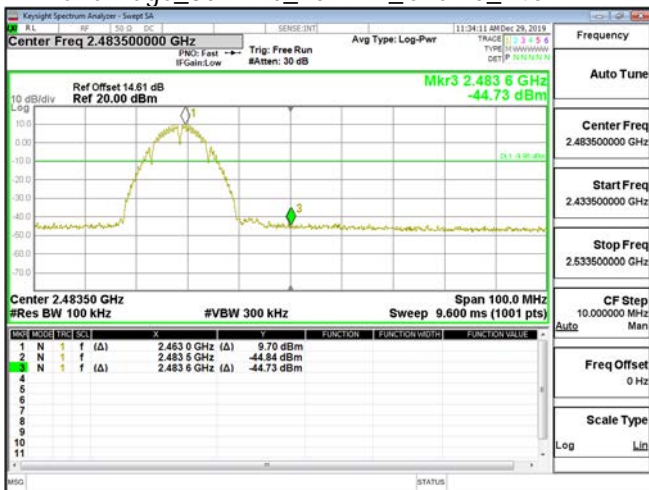
Band Edge_802.11b_20MHz_Chain0_2412MHz



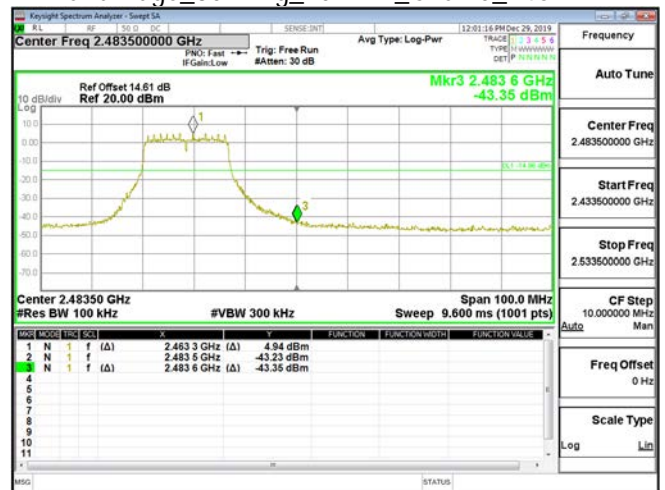
Band Edge_802.11g_20MHz_Chain0_2412MHz



Band Edge_802.11b_20MHz_Chain0_2462MHz



Band Edge_802.11g_20MHz_Chain0_2462MHz



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Band Edge_802.11n_20MHz_Chain0_2412MHz



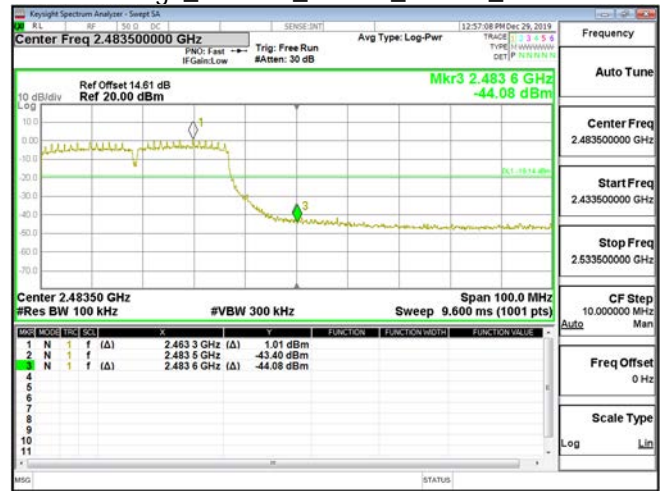
Band Edge_802.11n_40MHz_Chain0_2422MHz



Band Edge_802.11n_20MHz_Chain0_2462MHz



Band Edge_802.11n_40MHz_Chain0_2452MHz

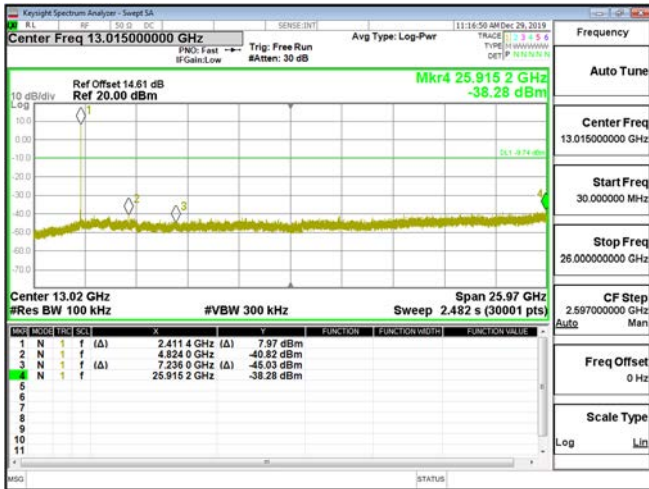


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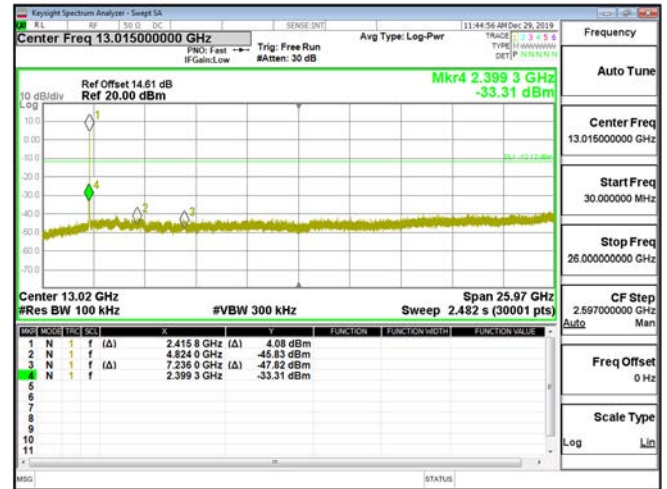
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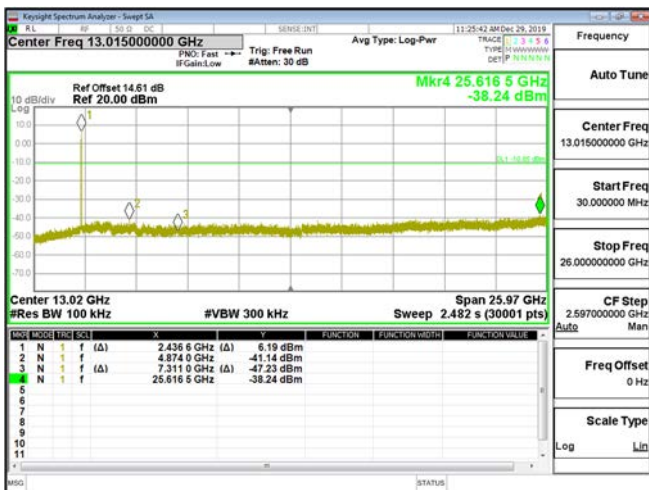
Spurious Emission_802.11b_20MHz_Chain0_2412MHz



Spurious Emission_802.11g_20MHz_Chain0_2412MHz



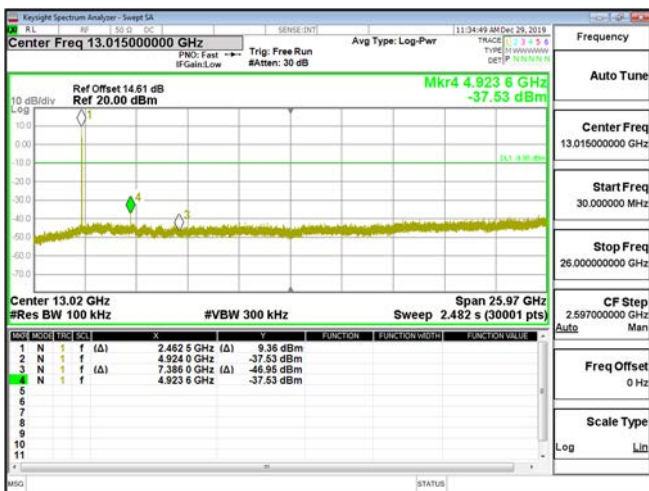
Spurious Emission_802.11b_20MHz_Chain0_2437MHz



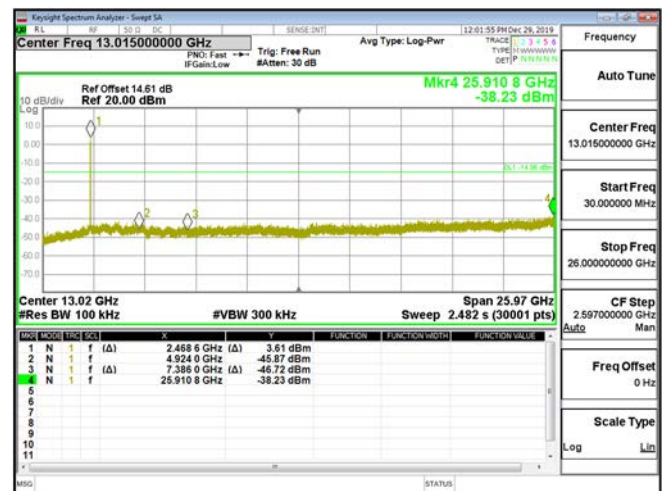
Spurious Emission_802.11g_20MHz_Chain0_2437MHz



Spurious Emission_802.11b_20MHz_Chain0_2462MHz



Spurious Emission_802.11g_20MHz_Chain0_2462MHz

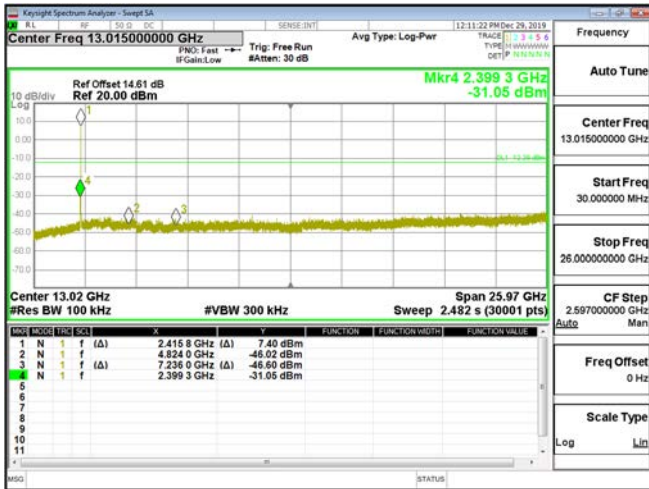


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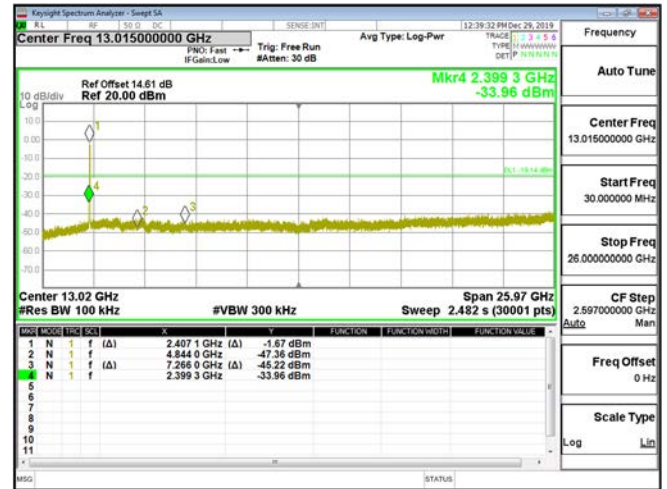
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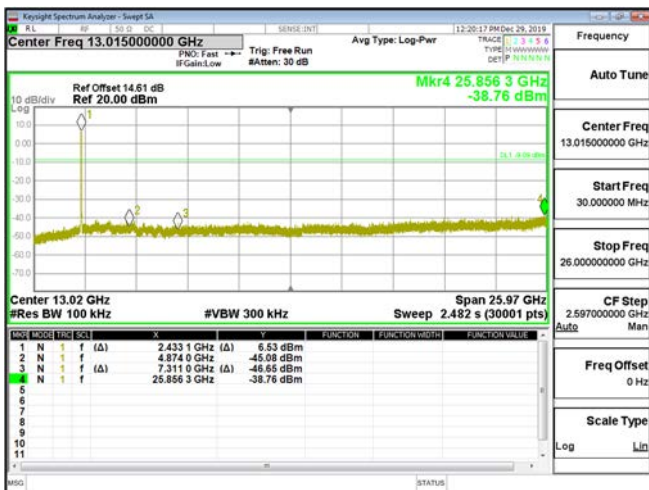
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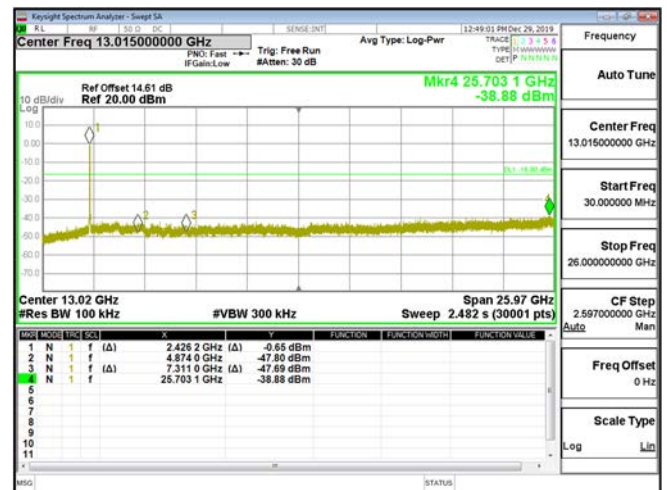
Spurious Emission_802.11n_40MHz_Chain0_2422MHz



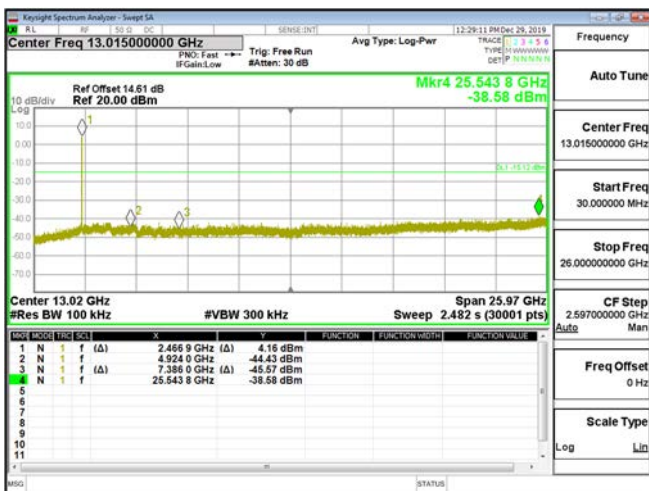
Spurious Emission_802.11n_20MHz_Chain0_2437MHz



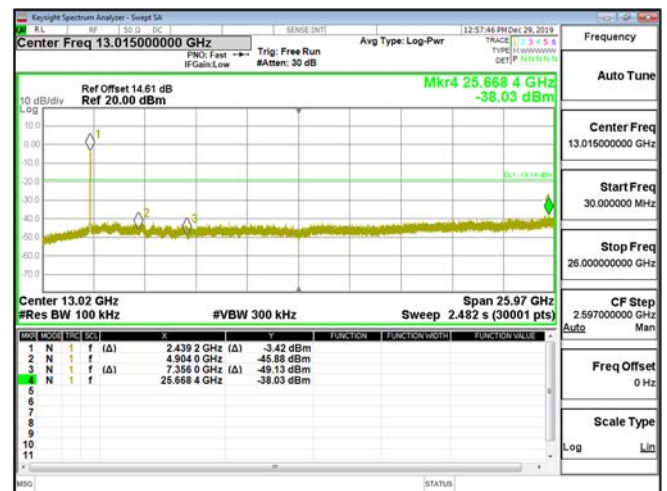
Spurious Emission_802.11n_40MHz_Chain0_2437MHz



Spurious Emission_802.11n_20MHz_Chain0_2462MHz



Spurious Emission_802.11n_40MHz_Chain0_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 limit as below.

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

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/04/2019	01/03/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2018	12/24/2019
Attenuator	Mini-Circuit	BW-S10W2+	4	01/05/2019	01/04/2020
3m Site NSA	SGS	966 chamber	N/A	01/05/2019	01/04/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
Pre-Amplifier	HP	8449B	3008A00578	01/05/2019	01/04/2020
Pre-Amplifier	HP	8447D	2944A07676	01/05/2019	01/04/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/05/2019	01/04/2020
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/05/2019	01/04/2020
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/05/2019	01/04/2020
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2019	01/04/2020

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Attenuator	Mini-Circuit	BW-S10W2+	4	01/05/2020	01/04/2021
3m Site NSA	SGS	966 chamber	N/A	01/05/2020	01/04/2021
Pre-Amplifier	HP	8449B	3008A00578	01/05/2020	01/04/2021
Pre-Amplifier	HP	8447D	2944A07676	01/05/2020	01/04/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/05/2020	01/04/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/05/2020	01/04/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/05/2020	01/04/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2020	01/04/2021

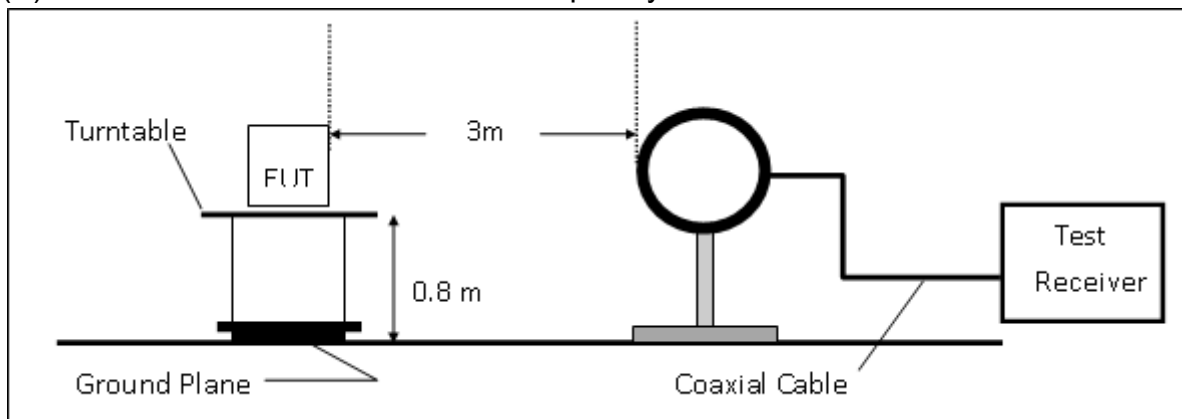
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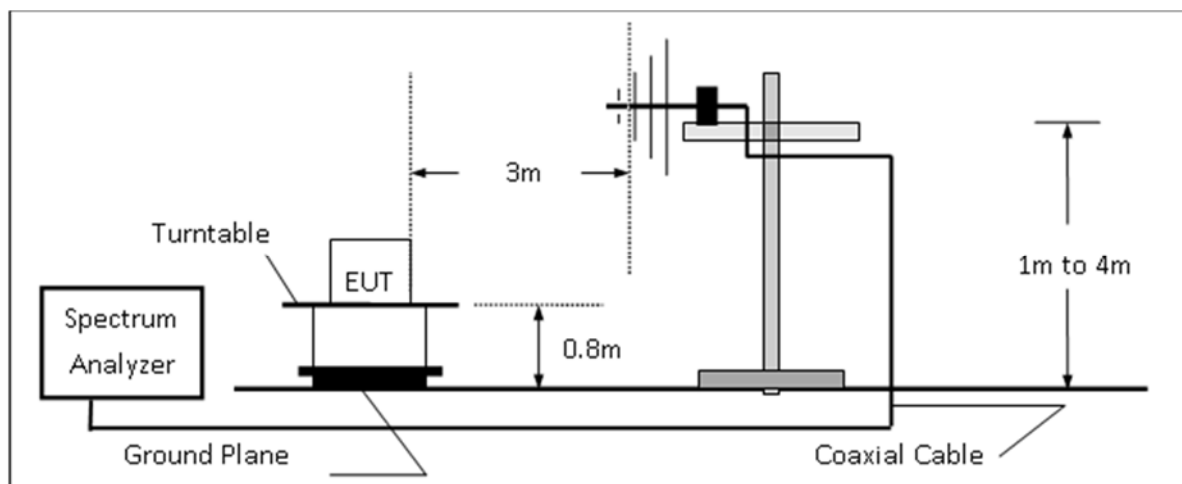
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11.3 Test SET-UP

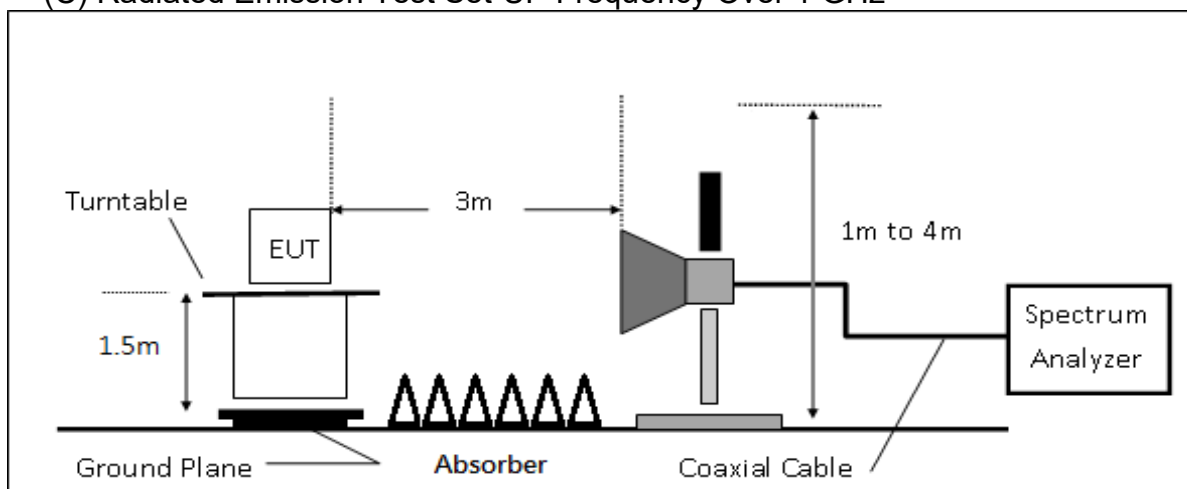
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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11.5 Field Strength Calculation

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

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & 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

Dipole Antenna (Part No.: GW.48.A151)

Report Number :ER/2019/B0064

Operation Mode :802.11b

Test Channel :2412 MHz

Test Mode :Bandedge CH Low

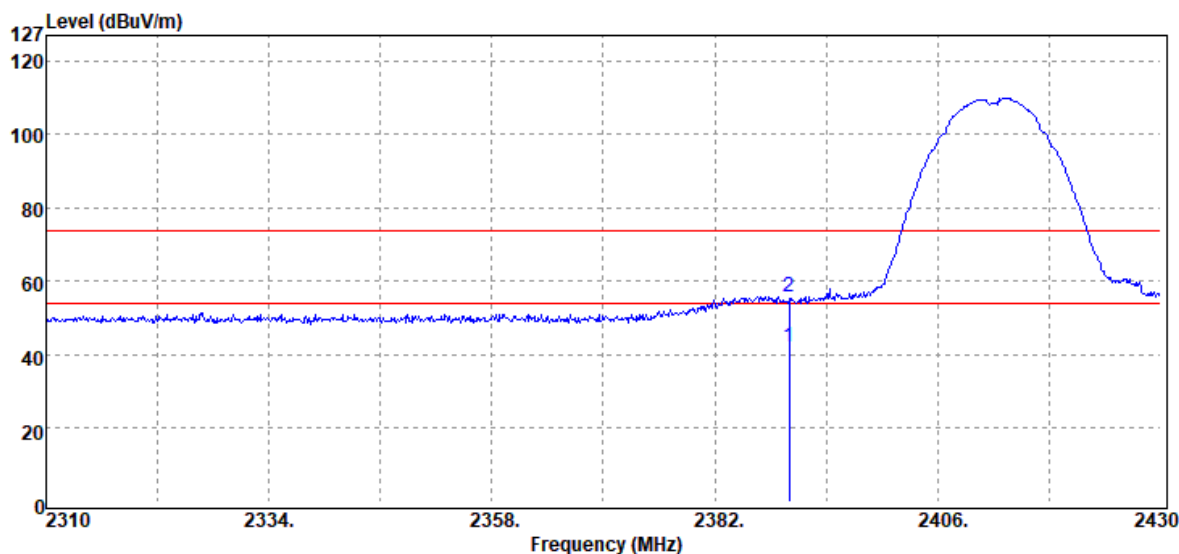
EUT Pol :E2 Plane

Test Date :2019-12-17

Temp./Humi. :22.3/59

Antenna Pol. :VERTICAL

Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	41.93	0.24	42.17	54.00	-11.83
2390.00	Peak	55.64	0.24	55.88	74.00	-18.12

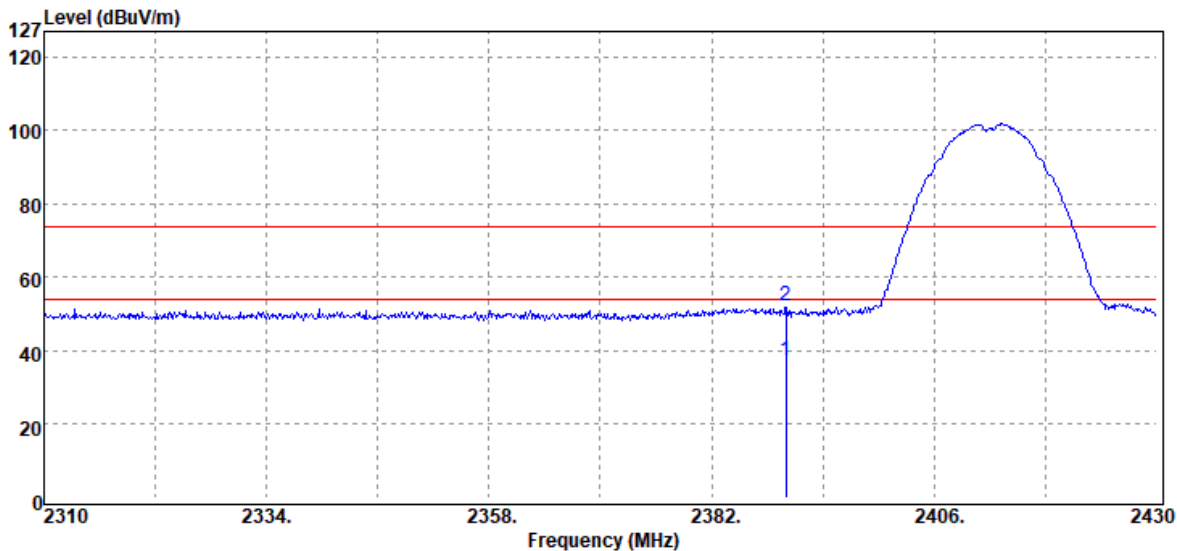
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



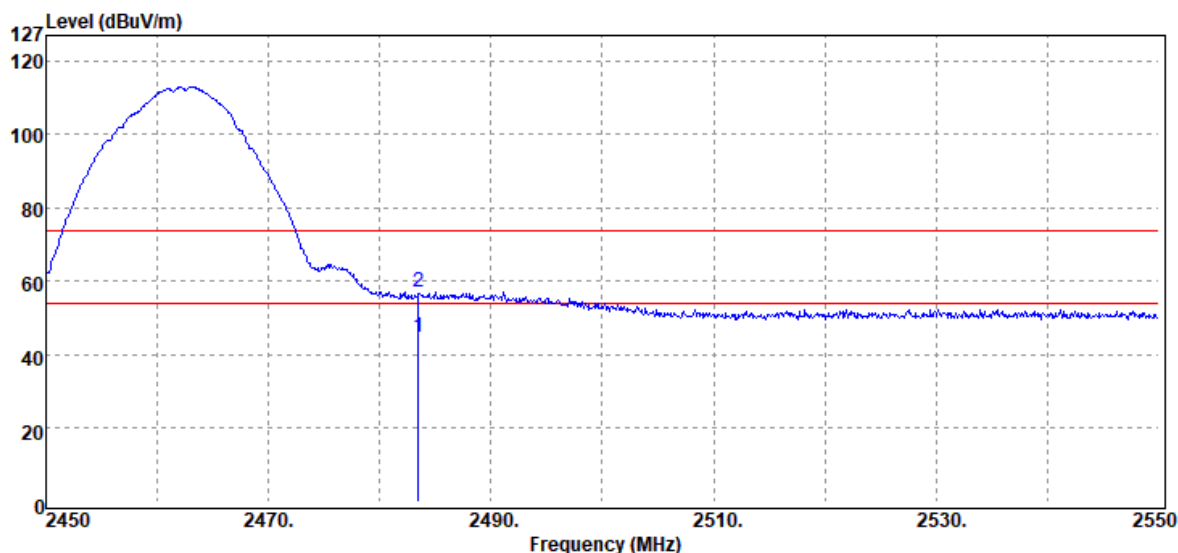
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	37.33	0.24	37.57	54.00	-16.43
2390.00	Peak	52.11	0.24	52.35	74.00	-21.65

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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.86	-0.17	44.69	54.00	-9.31
2483.50	Peak	57.50	-0.17	57.33	74.00	-16.67

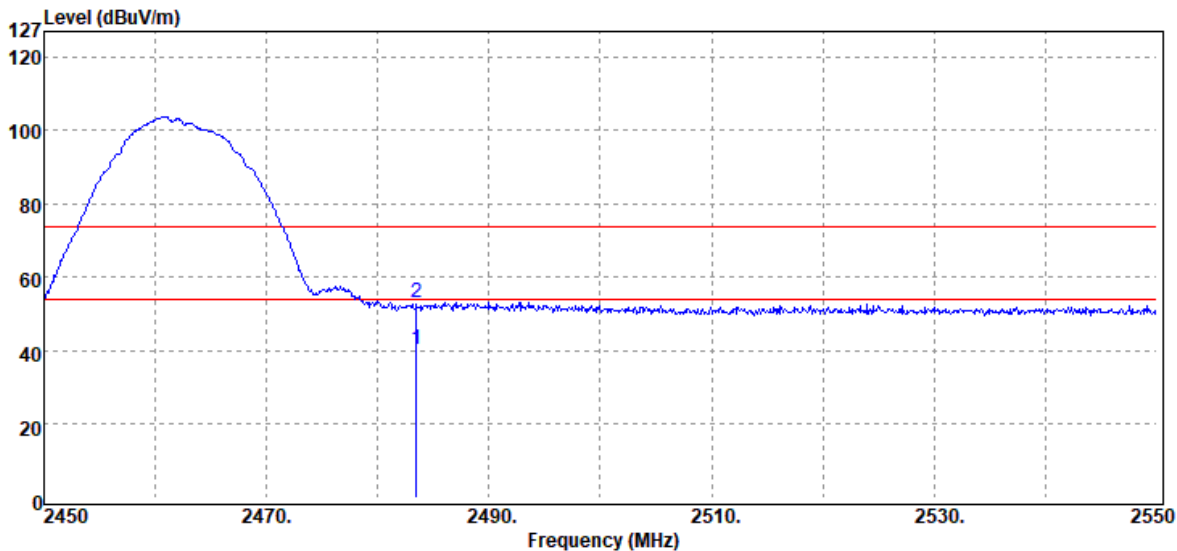
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	40.67	-0.17	40.50	54.00	-13.50
2483.50	Peak	53.52	-0.17	53.35	74.00	-20.65

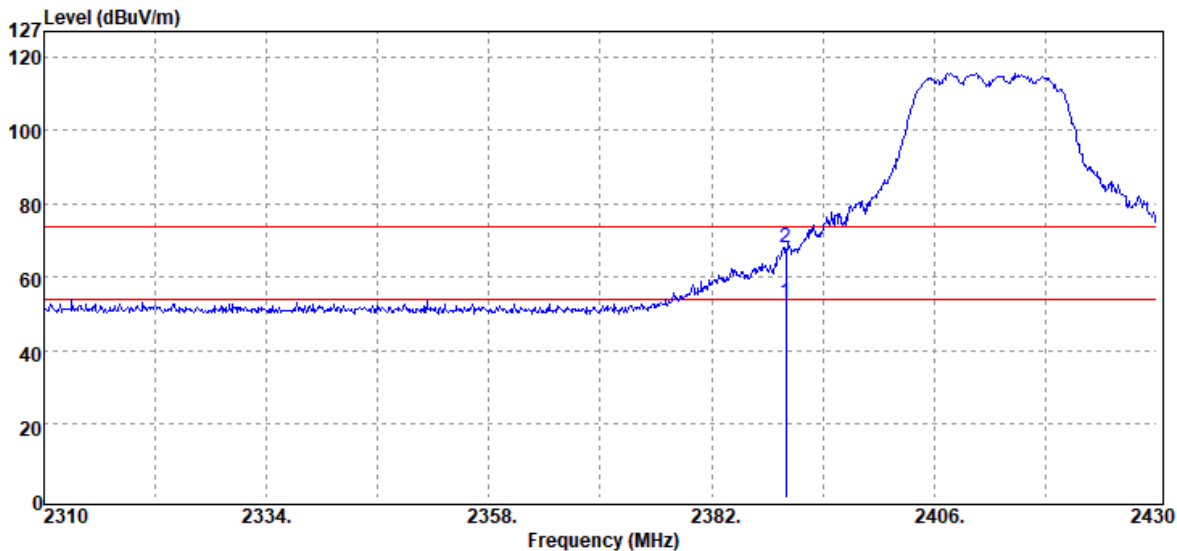
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	52.75	0.24	52.99	54.00	-1.01
2390.00	Peak	67.87	0.24	68.11	74.00	-5.89

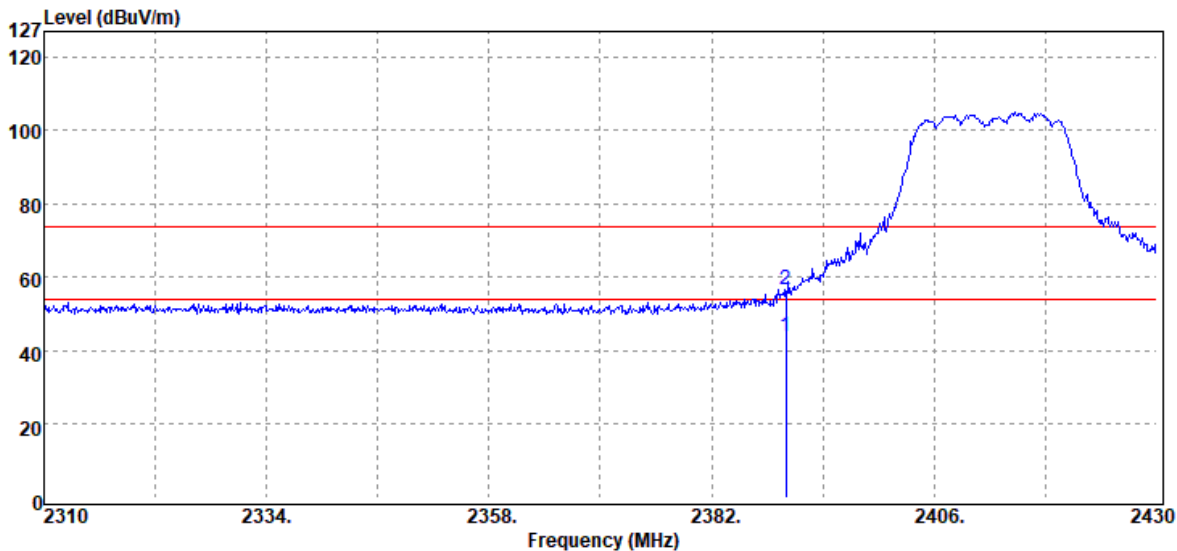
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



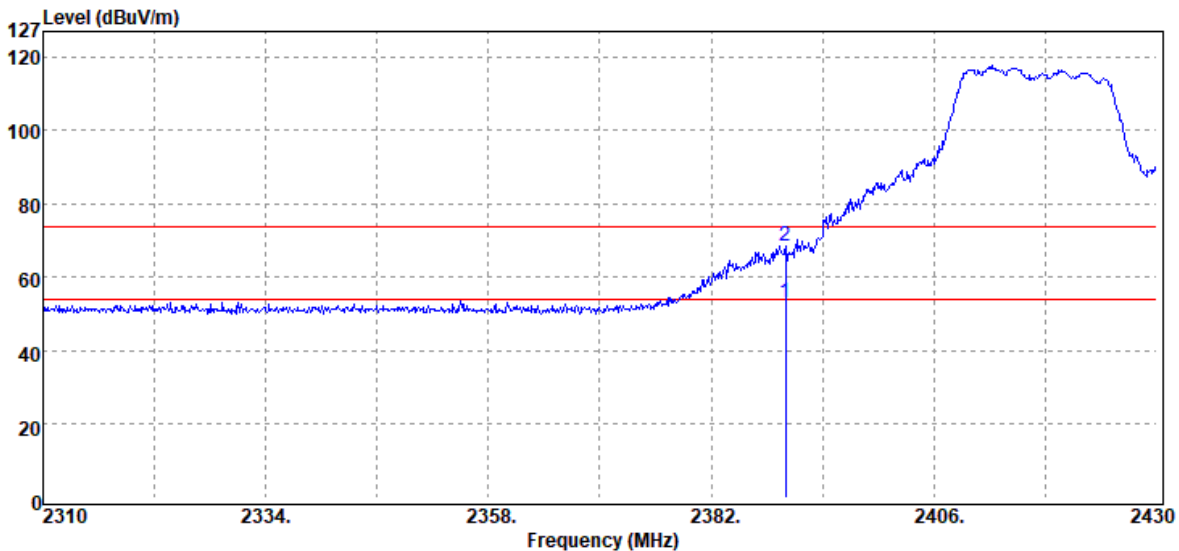
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	43.52	0.24	43.76	54.00	-10.24
2390.00	Peak	56.65	0.24	56.89	74.00	-17.11

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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	52.72	0.24	52.96	54.00	-1.04
2390.00	Peak	68.15	0.24	68.39	74.00	-5.61

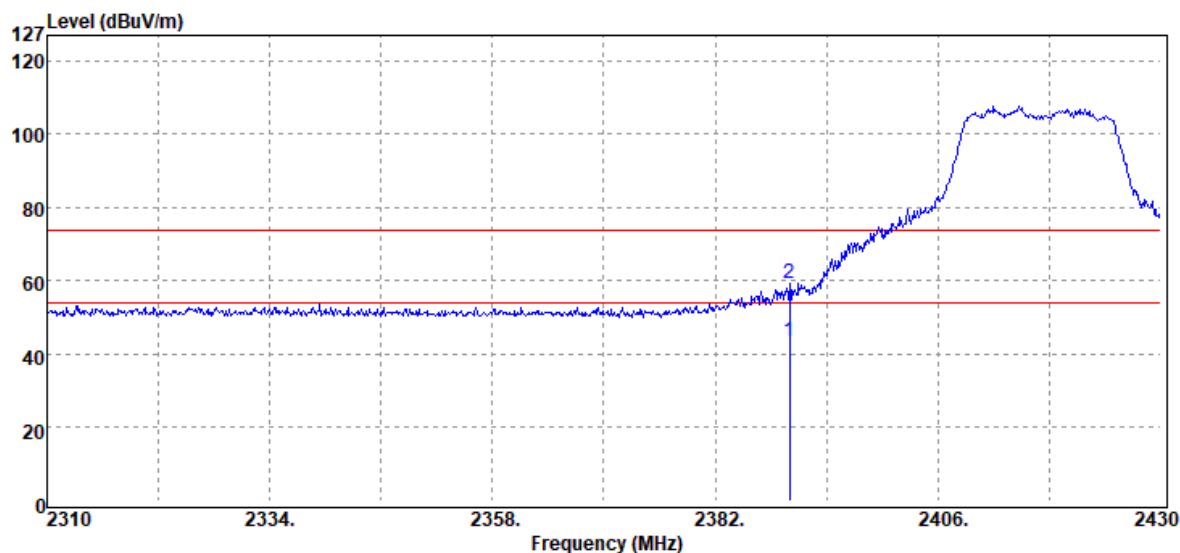
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	43.47	0.24	43.71	54.00	-10.29
2390.00	Peak	58.95	0.24	59.19	74.00	-14.81

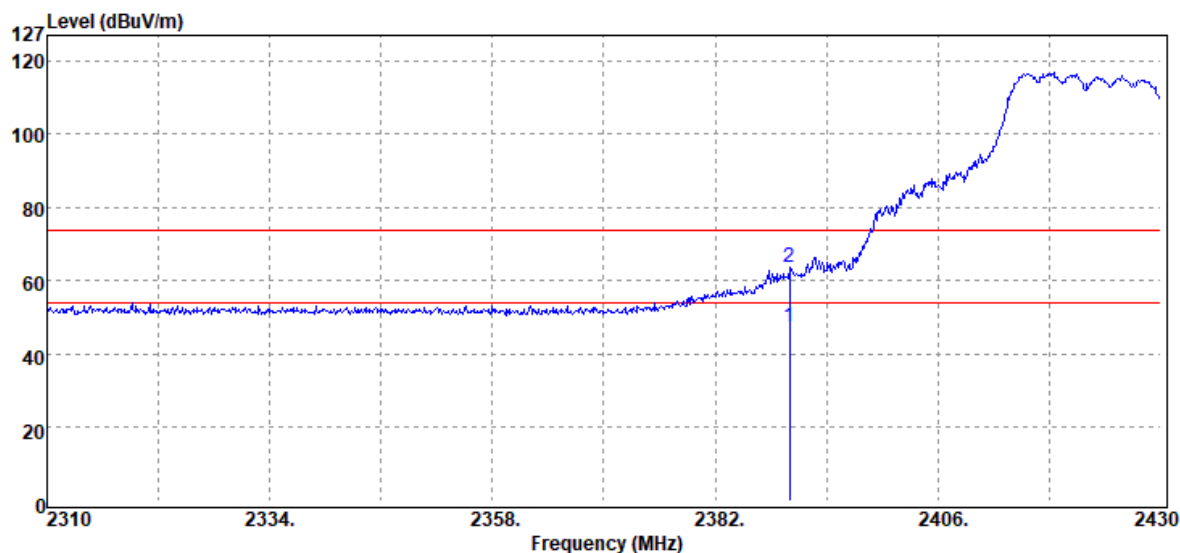
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	47.42	0.24	47.66	54.00	-6.34
2390.00	Peak	63.39	0.24	63.63	74.00	-10.37

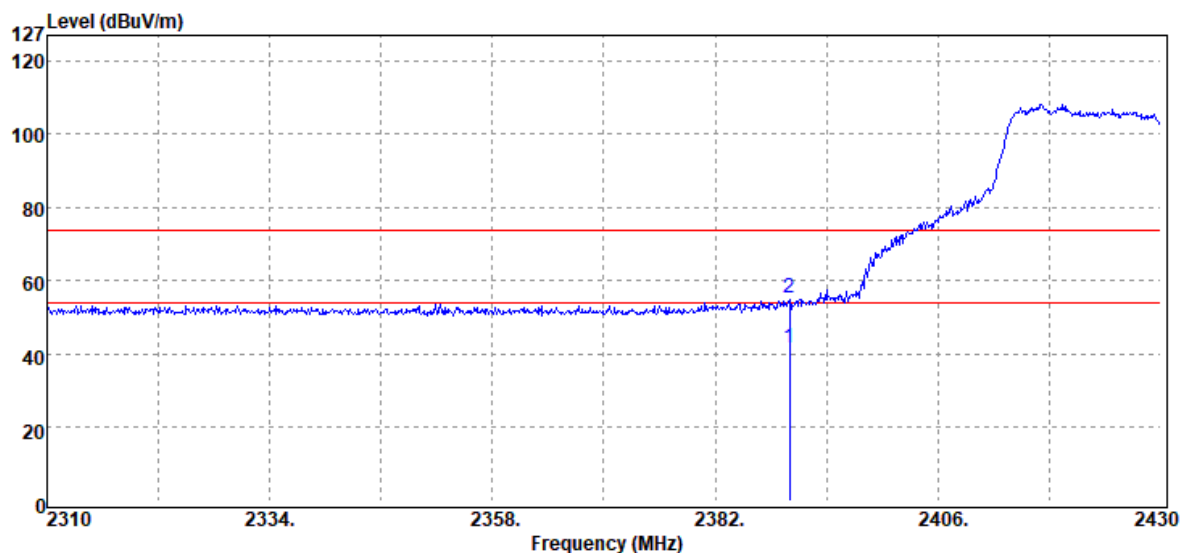
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	41.58	0.24	41.82	54.00	-12.18
2390.00	Peak	55.07	0.24	55.31	74.00	-18.69

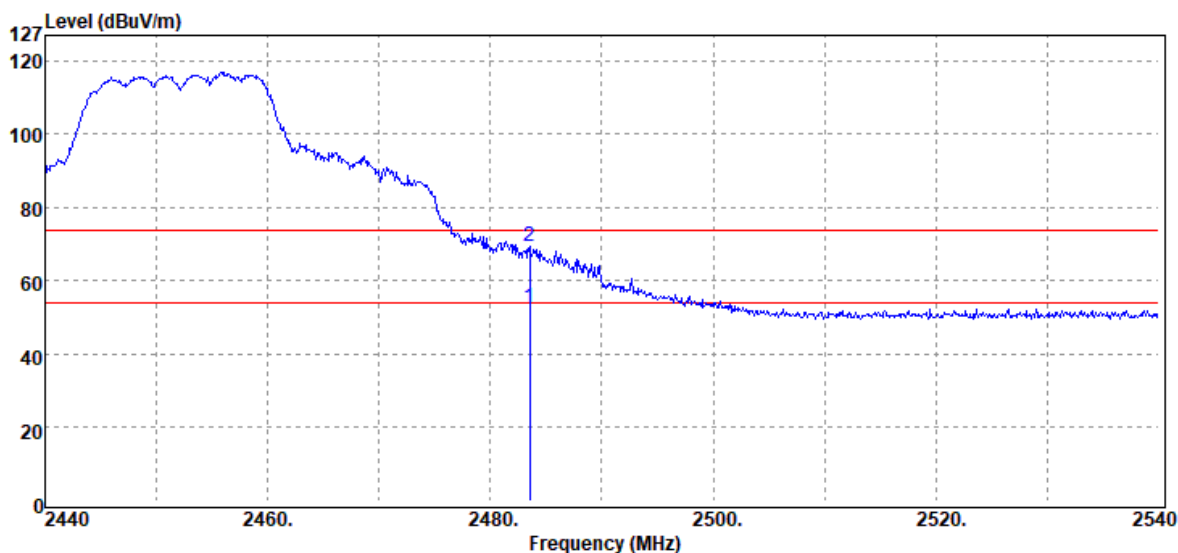
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



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	53.00	-0.17	52.83	54.00	-1.17
2483.50	Peak	69.65	-0.17	69.48	74.00	-4.52

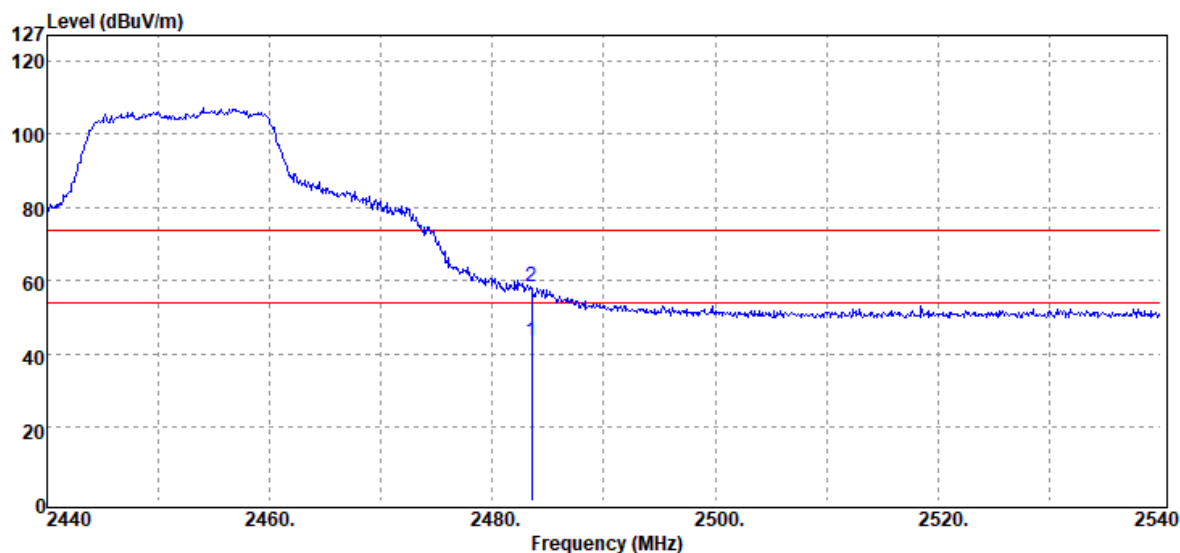
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	43.65	-0.17	43.48	54.00	-10.52
2483.50	Peak	58.46	-0.17	58.29	74.00	-15.71

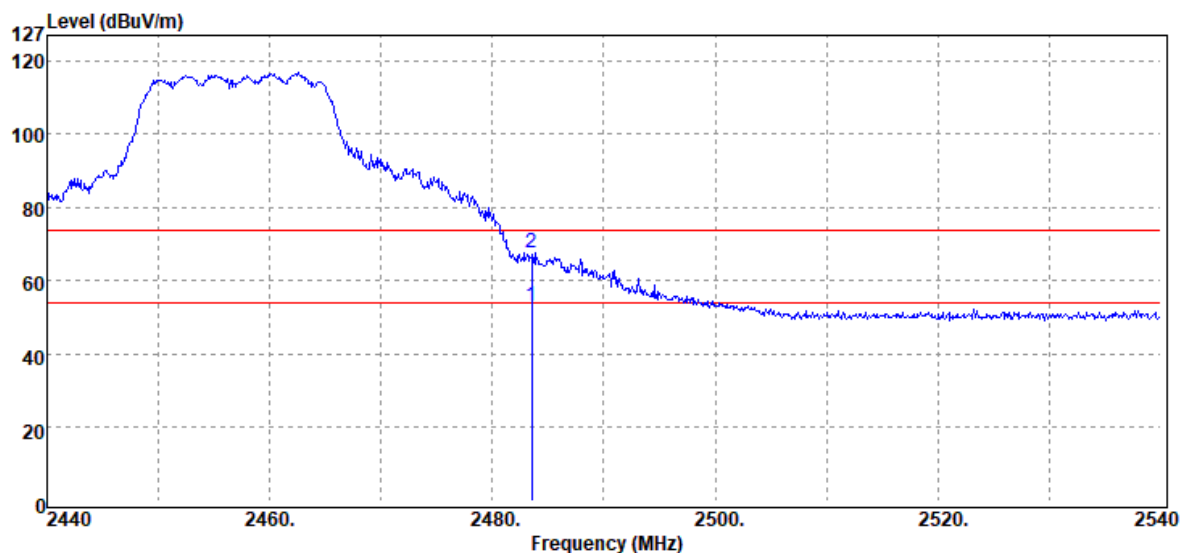
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	53.15	-0.17	52.98	54.00	-1.02
2483.50	Peak	67.63	-0.17	67.46	74.00	-6.54

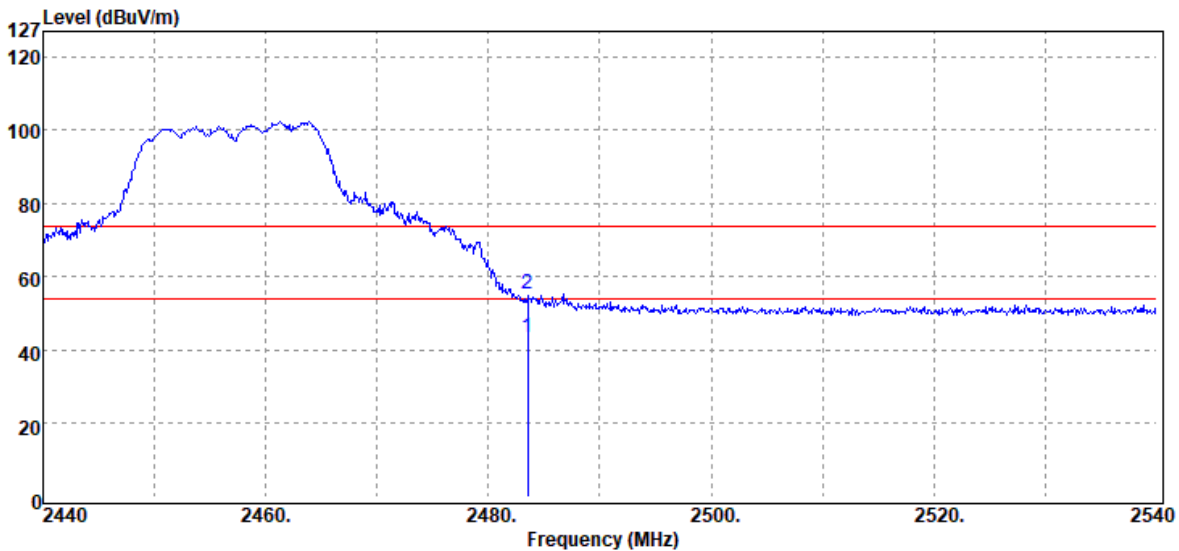
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	43.88	-0.17	43.71	54.00	-10.29
2483.50	Peak	55.62	-0.17	55.45	74.00	-18.55

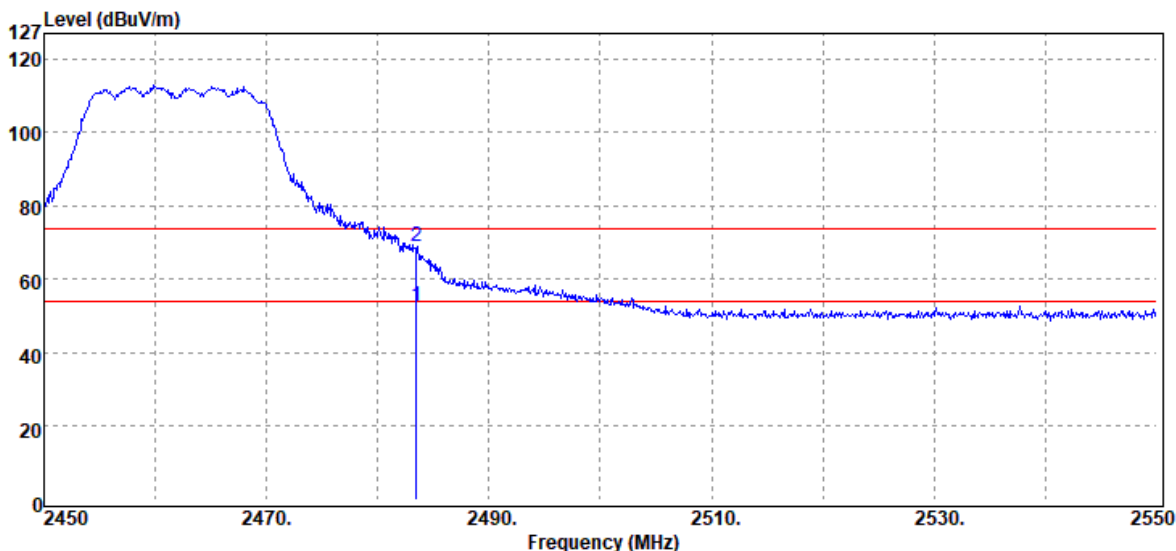
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	53.00	-0.17	52.83	54.00	-1.17
2483.50	Peak	69.24	-0.17	69.07	74.00	-4.93

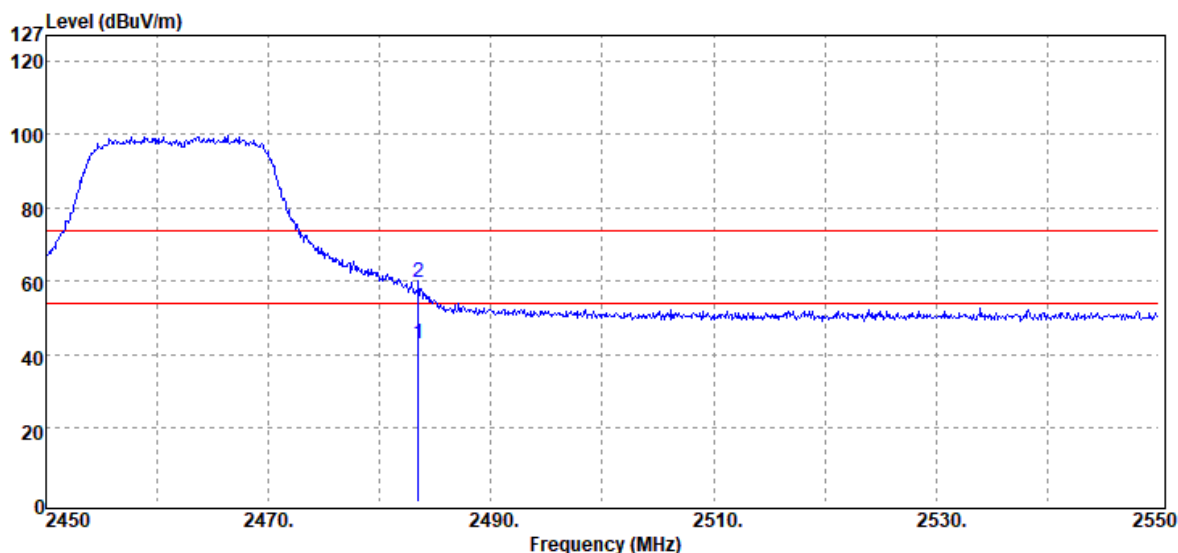
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	43.24	-0.17	43.07	54.00	-10.93
2483.50	Peak	60.00	-0.17	59.83	74.00	-14.17

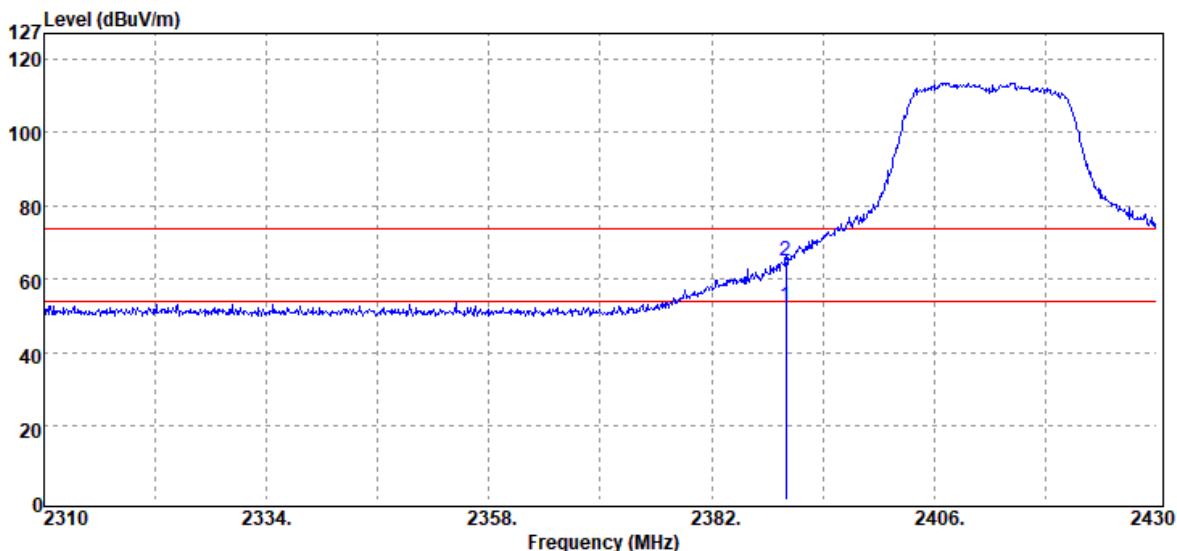
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	52.40	0.24	52.64	54.00	-1.36
2390.00	Peak	64.70	0.24	64.94	74.00	-9.06

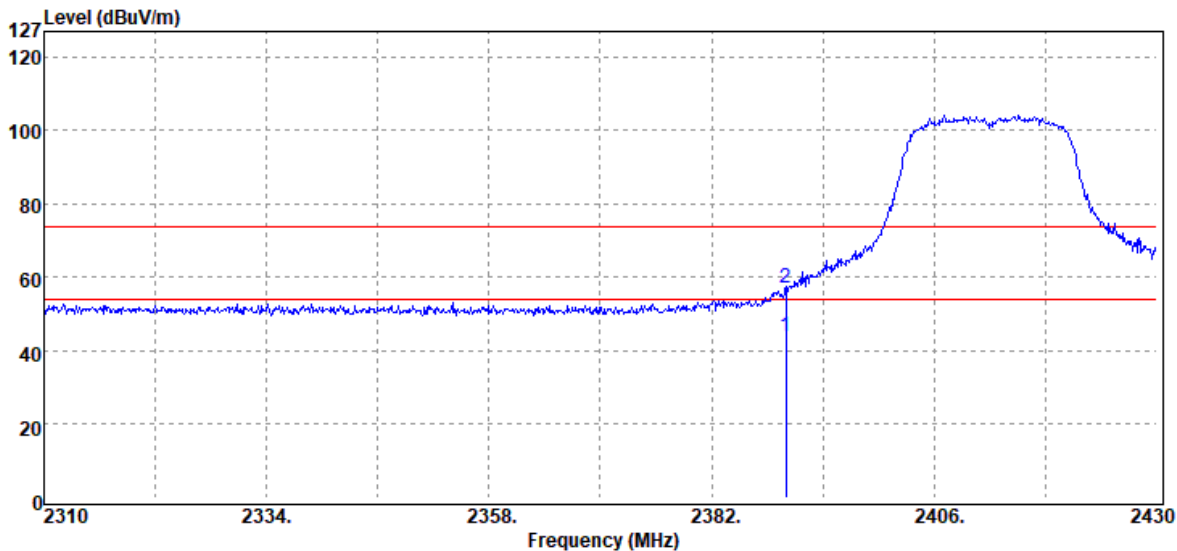
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	43.85	0.24	44.09	54.00	-9.91
2390.00	Peak	57.00	0.24	57.24	74.00	-16.76

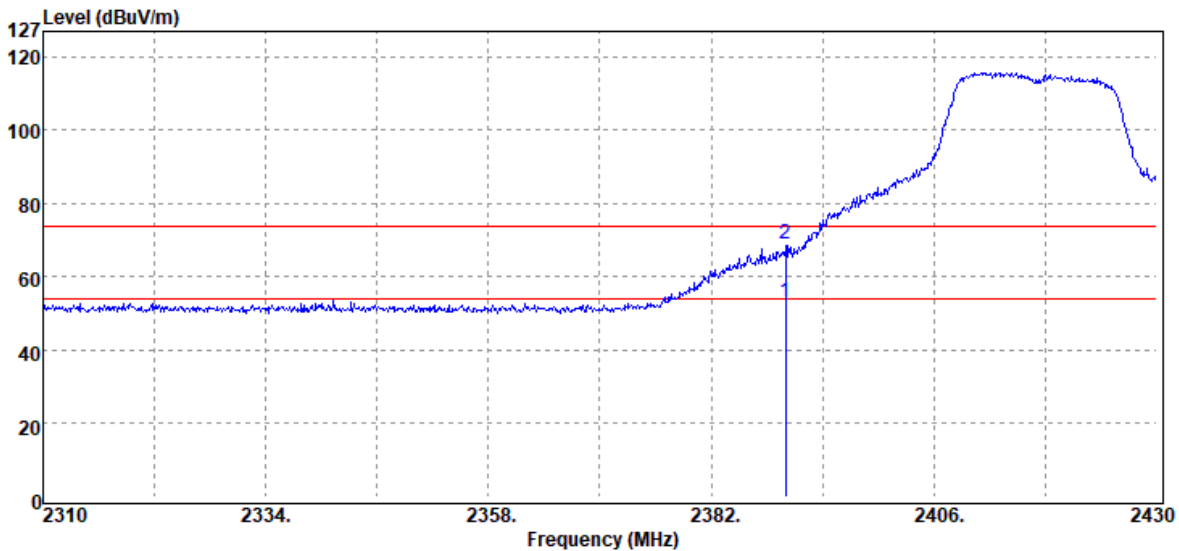
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	52.75	0.24	52.99	54.00	-1.01
2390.00	Peak	68.54	0.24	68.78	74.00	-5.22

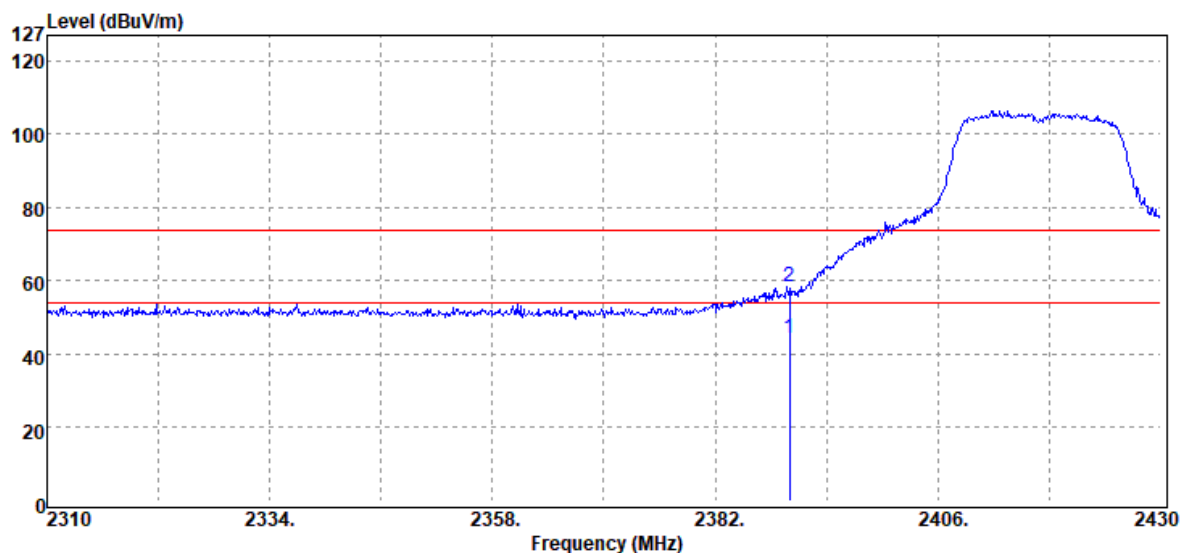
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	44.21	0.24	44.45	54.00	-9.55
2390.00	Peak	58.07	0.24	58.31	74.00	-15.69

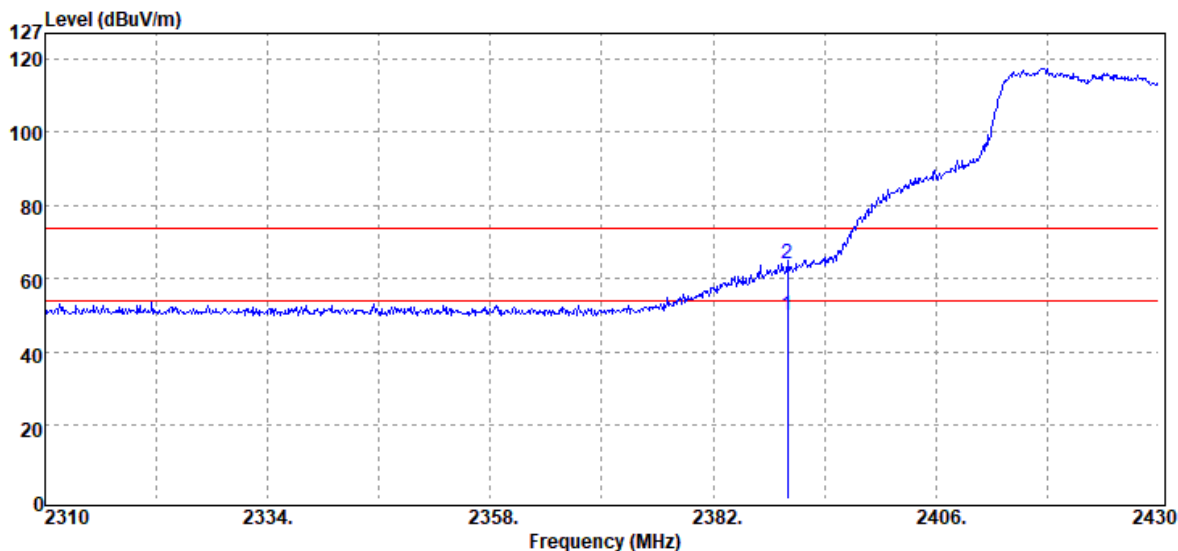
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



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	50.00	0.24	50.24	54.00	-3.76
2390.00	Peak	63.76	0.24	64.00	74.00	-10.00

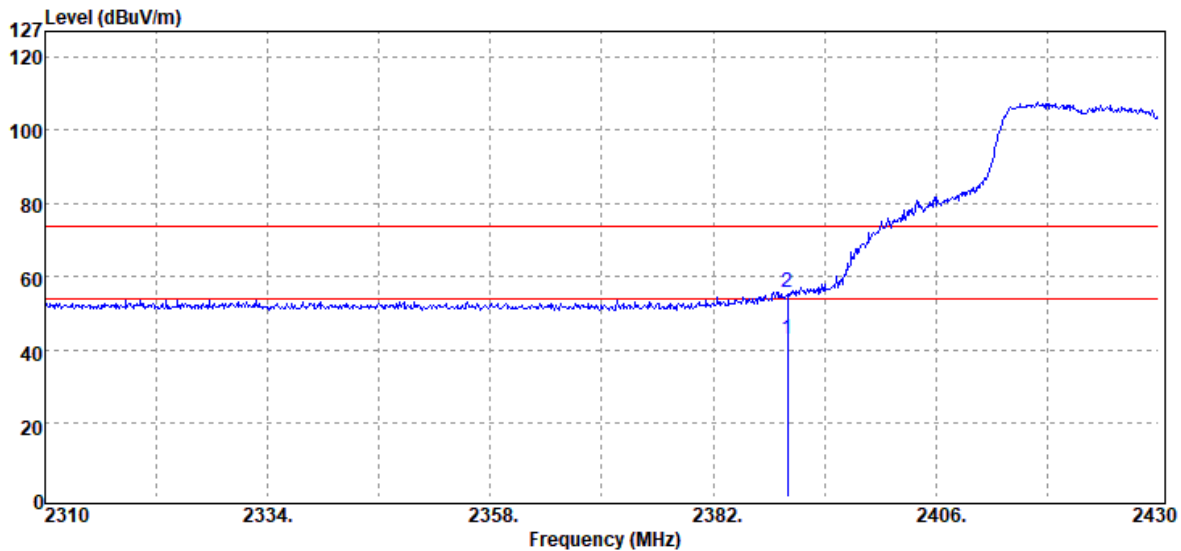
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	42.88	0.24	43.12	54.00	-10.88
2390.00	Peak	55.66	0.24	55.90	74.00	-18.10

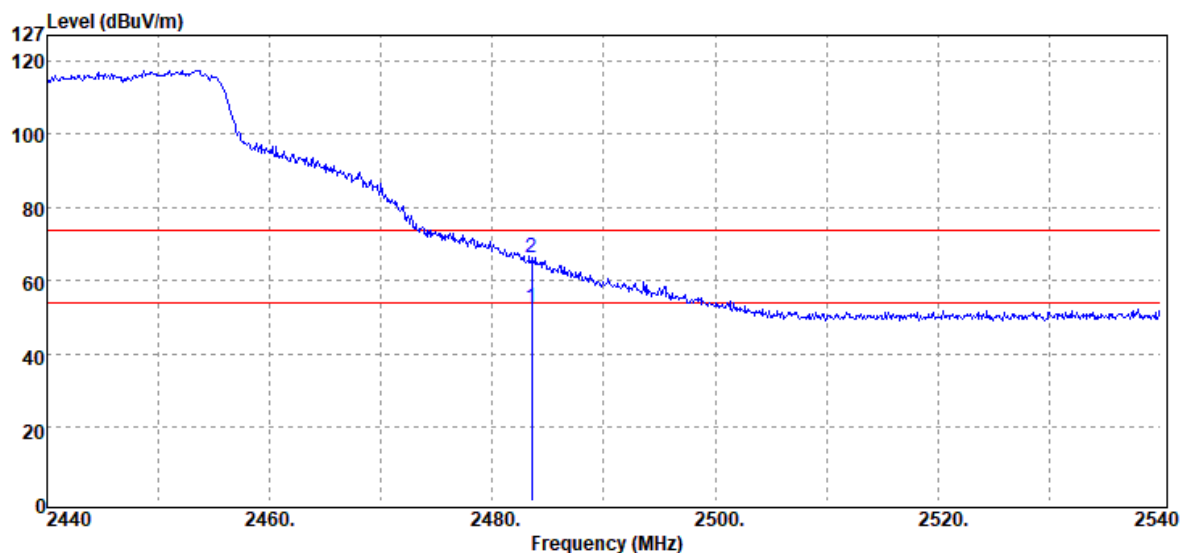
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



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	52.70	-0.17	52.53	54.00	-1.47
2483.50	Peak	66.56	-0.17	66.39	74.00	-7.61

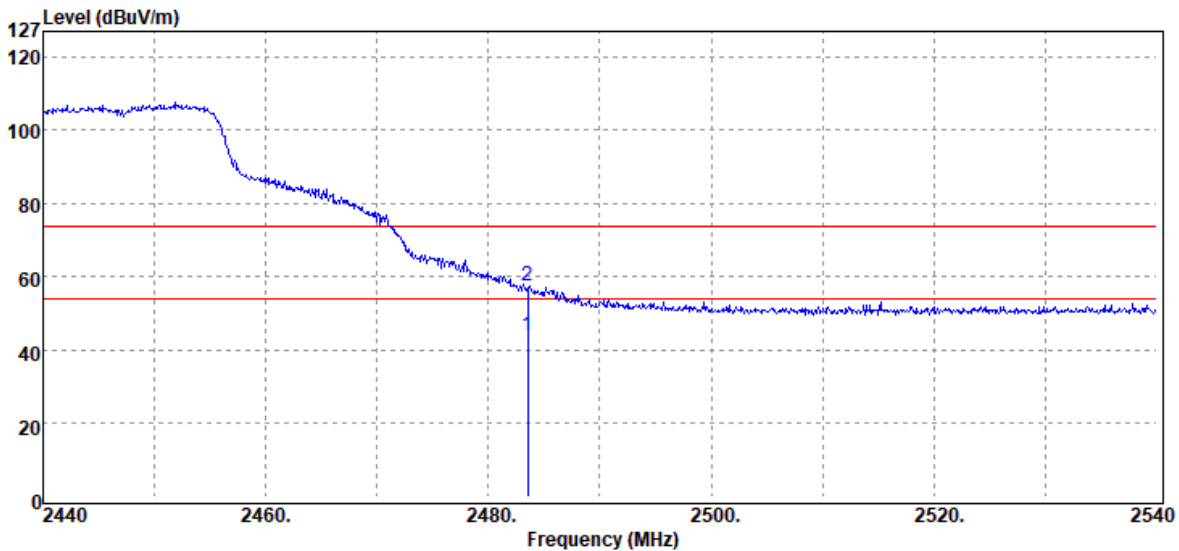
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	44.08	-0.17	43.91	54.00	-10.09
2483.50	Peak	57.56	-0.17	57.39	74.00	-16.61

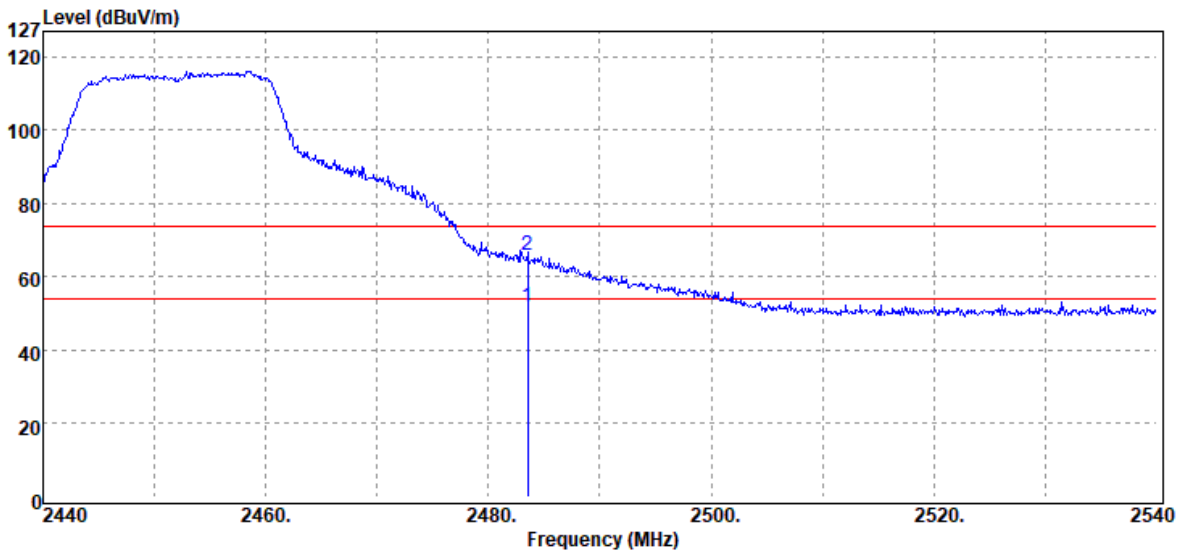
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.20	-0.17	52.03	54.00	-1.97
2483.50	Peak	66.21	-0.17	66.04	74.00	-7.96

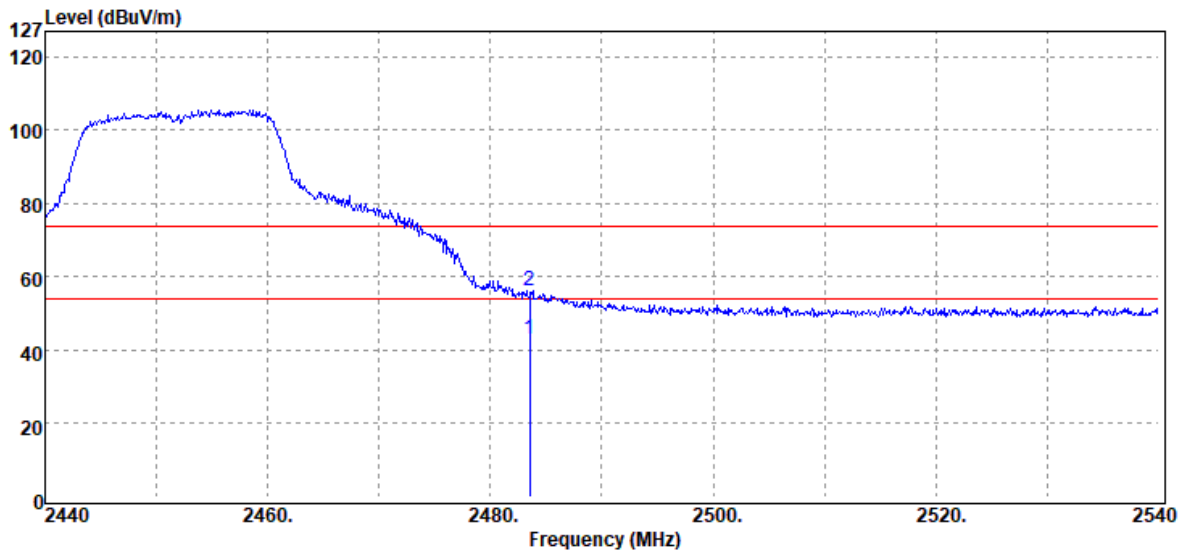
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	43.38	-0.17	43.21	54.00	-10.79
2483.50	Peak	56.37	-0.17	56.20	74.00	-17.80

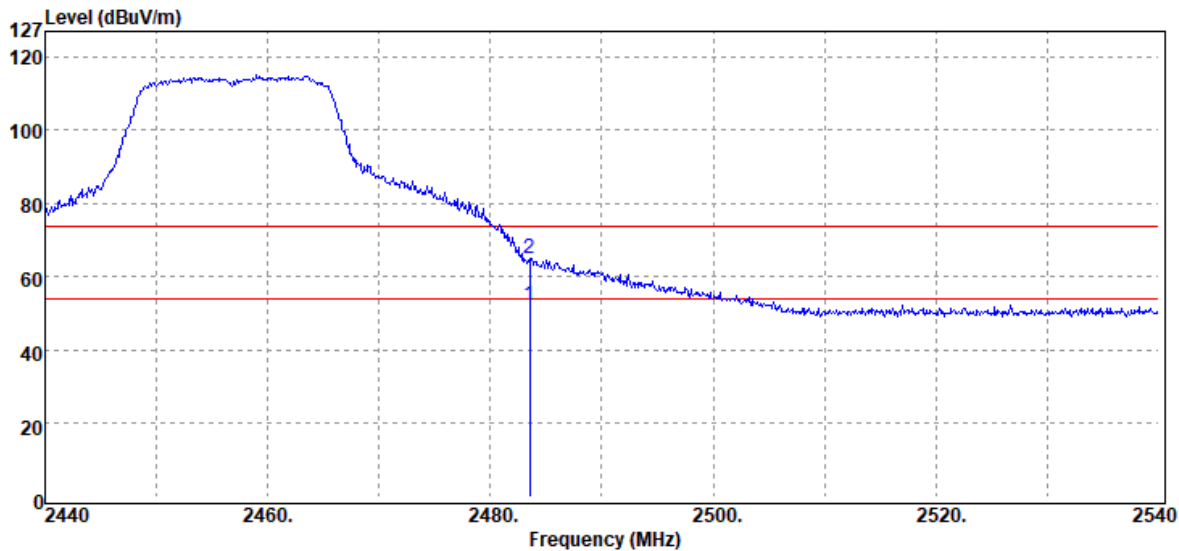
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.37	-0.17	52.20	54.00	-1.80
2483.50	Peak	65.16	-0.17	64.99	74.00	-9.01

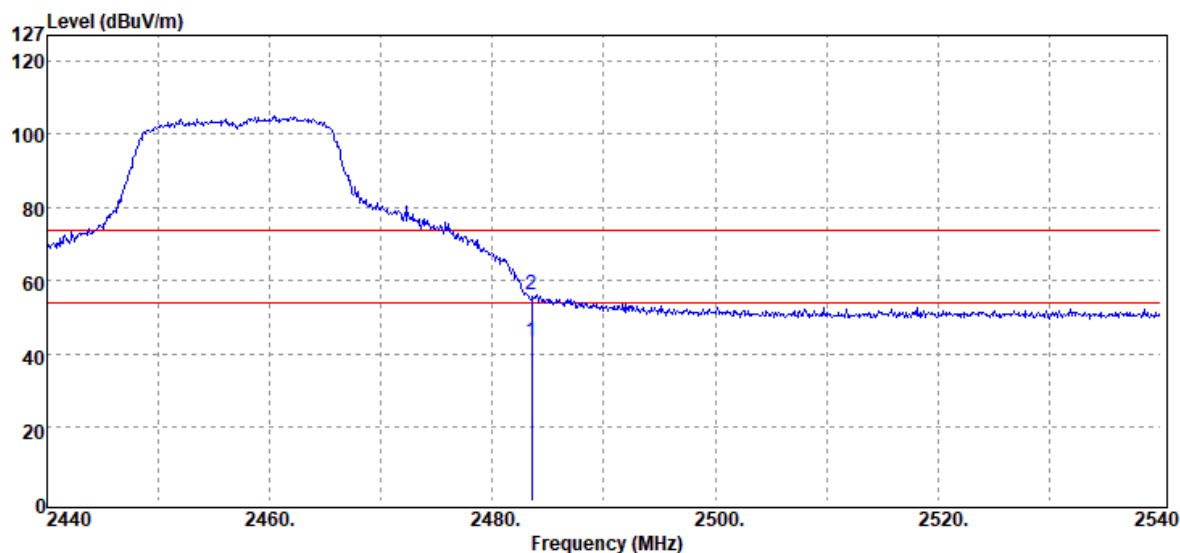
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	43.66	-0.17	43.49	54.00	-10.51
2483.50	Peak	56.45	-0.17	56.28	74.00	-17.72

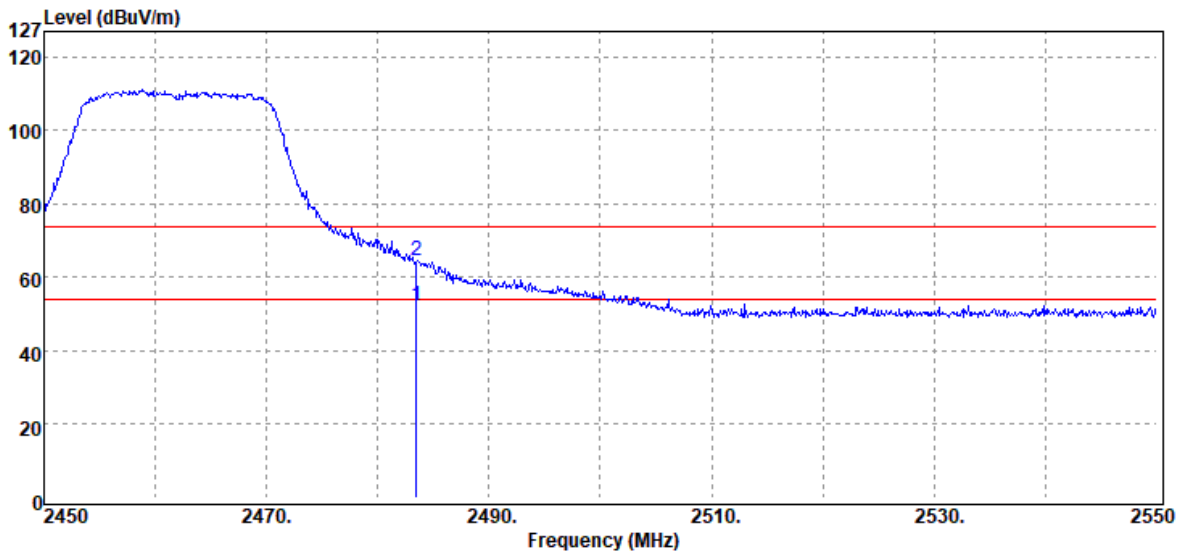
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.60	-0.17	52.43	54.00	-1.57
2483.50	Peak	64.90	-0.17	64.73	74.00	-9.27

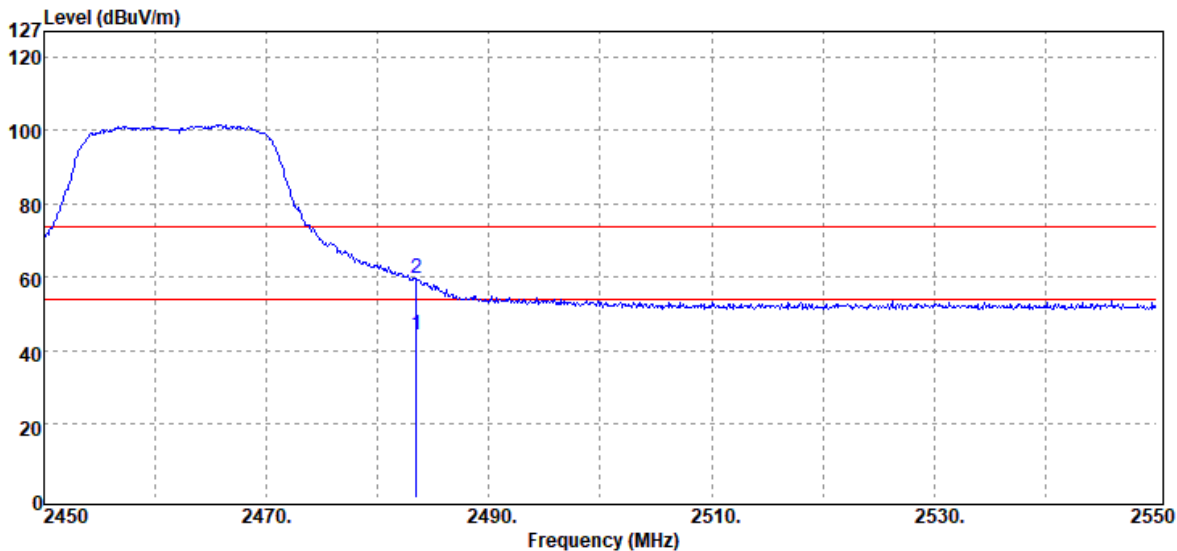
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.42	-0.17	44.25	54.00	-9.75
2483.50	Peak	59.86	-0.17	59.69	74.00	-14.31

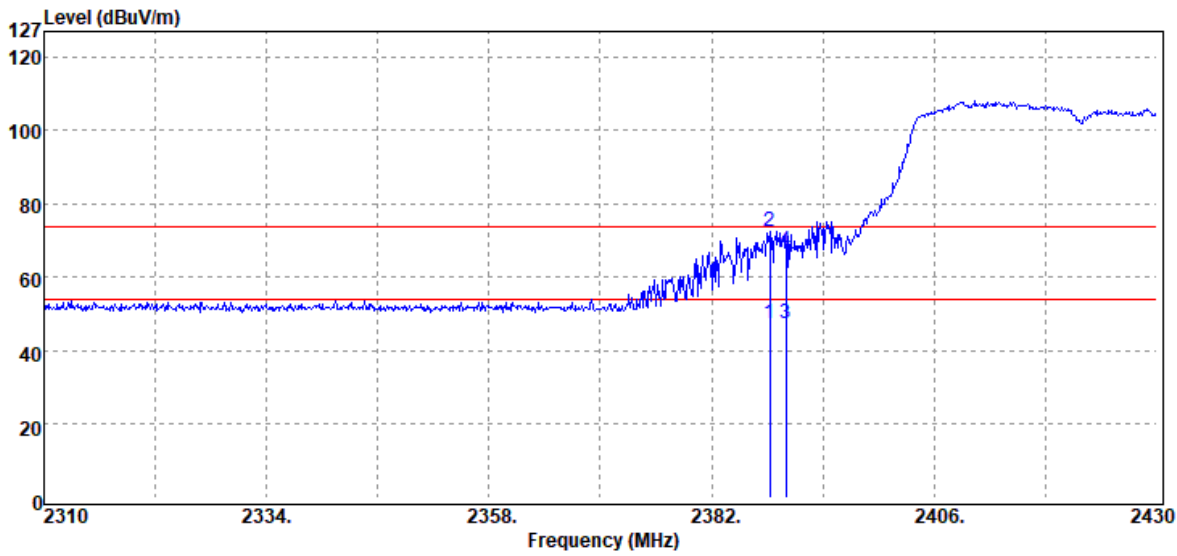
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.24	Average	47.29	0.25	47.54	54.00	-6.46
2388.24	Peak	72.45	0.25	72.70	74.00	-1.30
2390.00	Average	47.03	0.24	47.27	54.00	-6.73
2390.00	Peak	66.99	0.24	67.23	74.00	-6.77

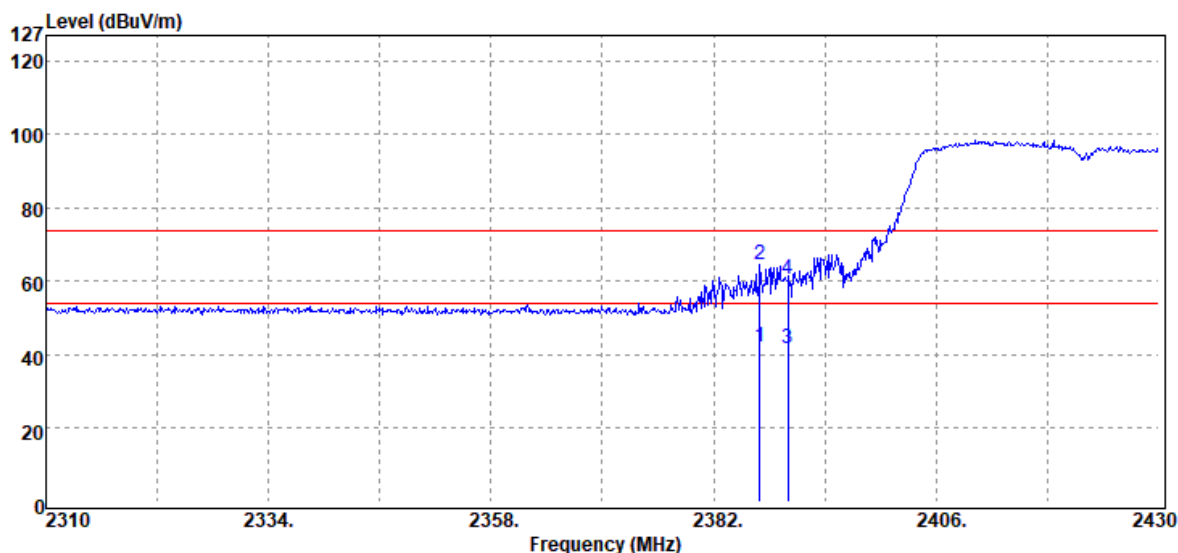
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2386.98	Average	41.79	0.25	42.04	54.00	-11.96
2386.98	Peak	64.21	0.25	64.46	74.00	-9.54
2390.00	Average	41.61	0.24	41.85	54.00	-12.15
2390.00	Peak	60.50	0.24	60.74	74.00	-13.26

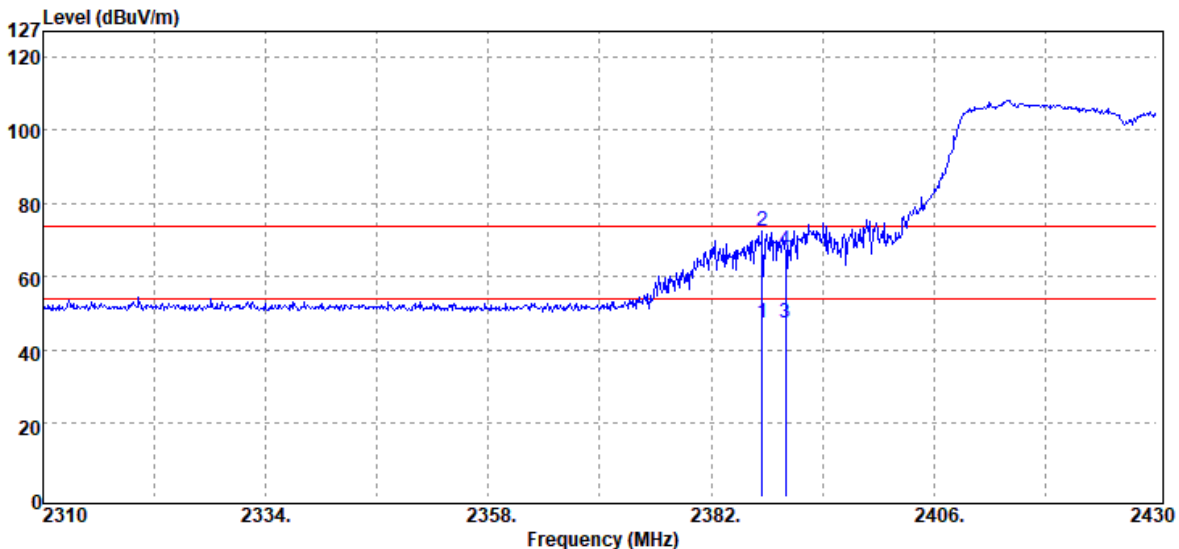
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.52	Average	47.30	0.25	47.55	54.00	-6.45
2387.52	Peak	72.13	0.25	72.38	74.00	-1.62
2390.00	Average	47.21	0.24	47.45	54.00	-6.55
2390.00	Peak	67.09	0.24	67.33	74.00	-6.67

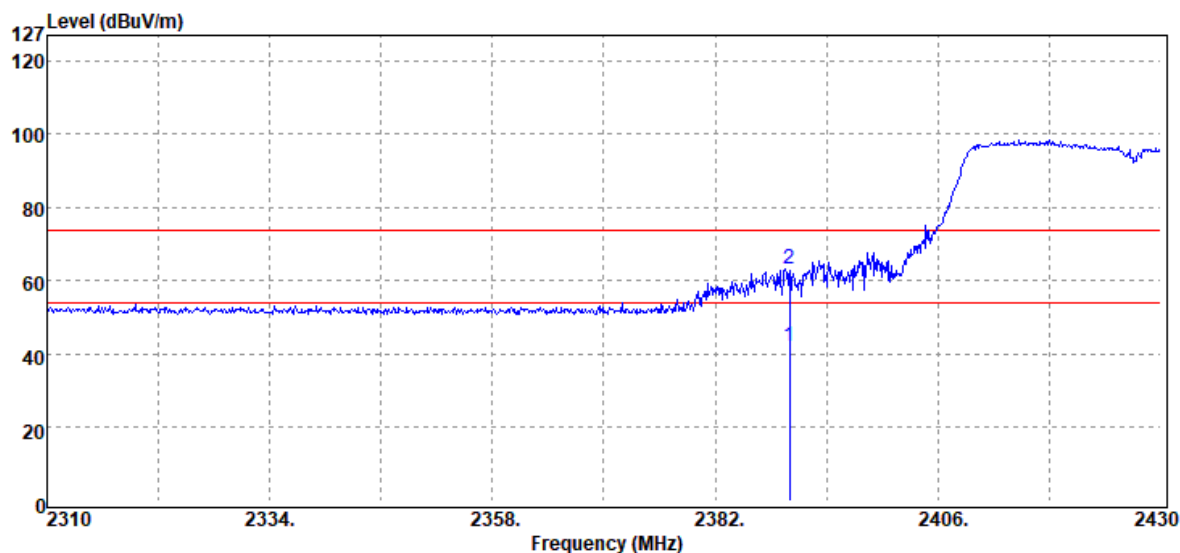
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	41.90	0.24	42.14	54.00	-11.86
2390.00	Peak	63.00	0.24	63.24	74.00	-10.76

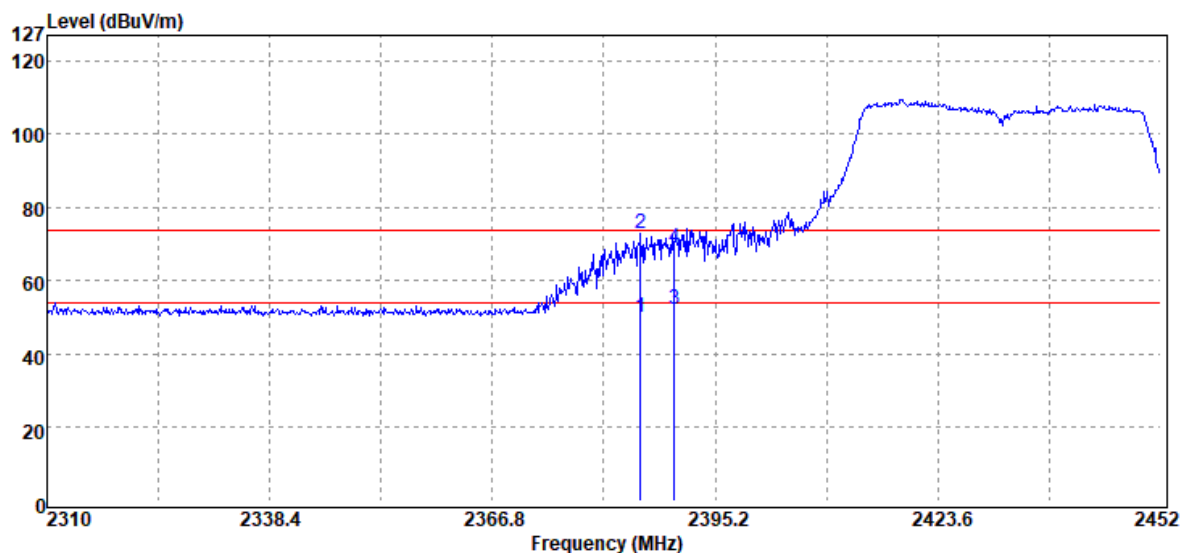
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2432 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.69	Average	49.99	0.26	50.25	54.00	-3.75
2385.69	Peak	72.59	0.26	72.85	74.00	-1.15
2390.00	Average	52.20	0.24	52.44	54.00	-1.56
2390.00	Peak	68.72	0.24	68.96	74.00	-5.04

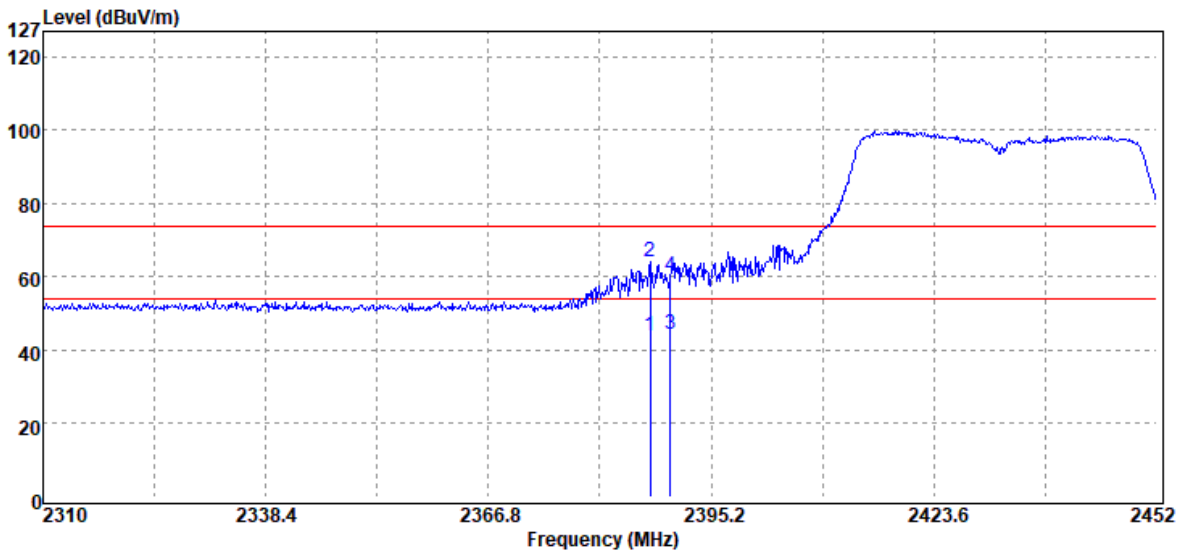
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2432 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.39	Average	43.50	0.25	43.75	54.00	-10.25
2387.39	Peak	63.75	0.25	64.00	74.00	-10.00
2390.00	Average	44.01	0.24	44.25	54.00	-9.75
2390.00	Peak	60.18	0.24	60.42	74.00	-13.58

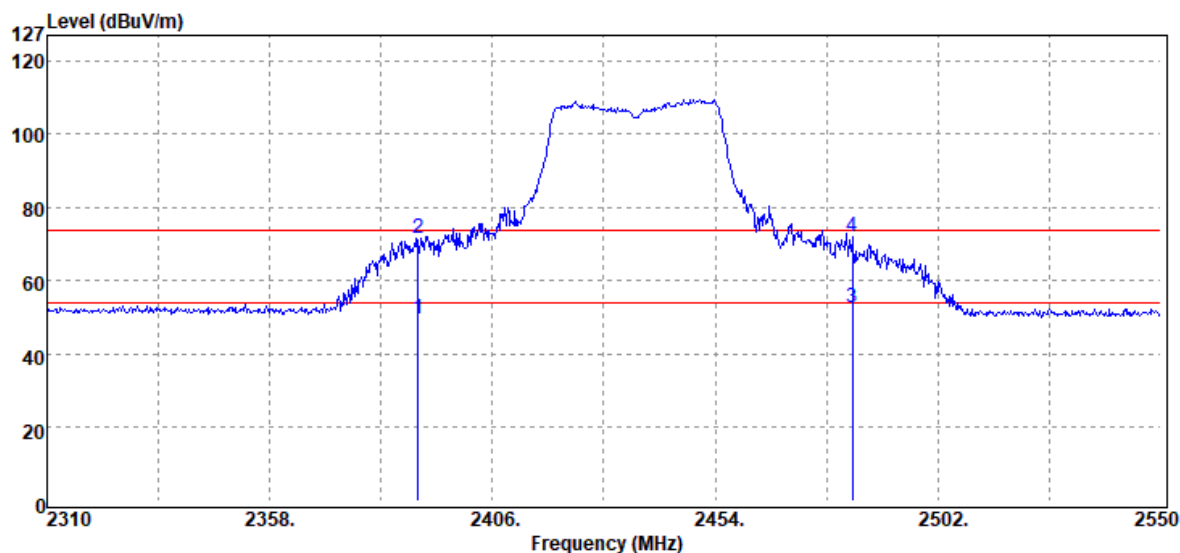
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Bandedge CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



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	49.50	0.24	49.74	54.00	-4.26
2390.00	Peak	71.47	0.24	71.71	74.00	-2.29
2483.50	Average	52.90	-0.17	52.73	54.00	-1.27
2483.50	Peak	72.21	-0.17	72.04	74.00	-1.96

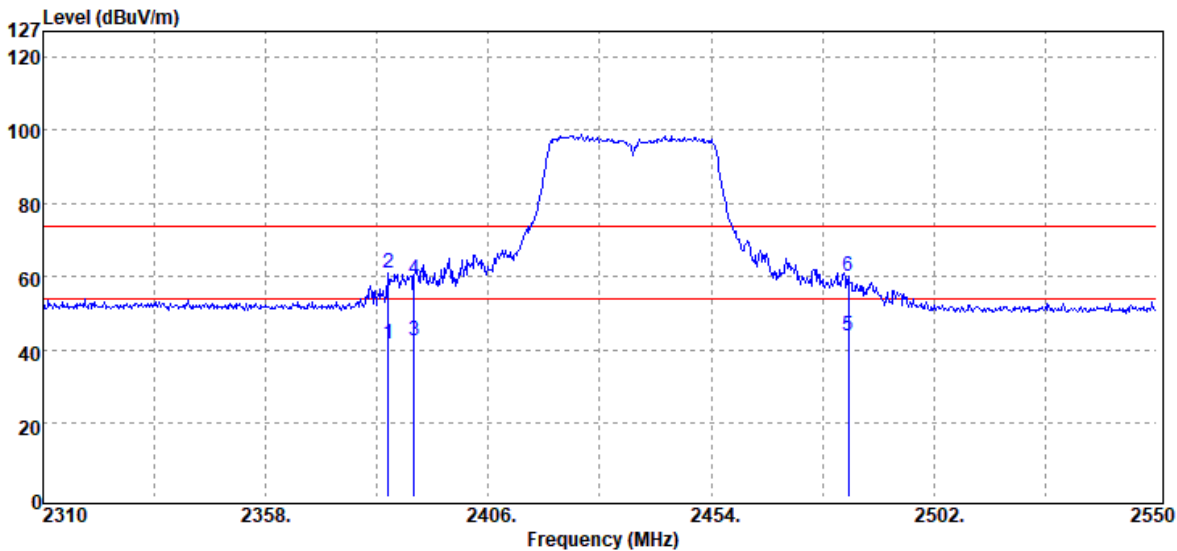
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Bandedge CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2384.40	Average	41.48	0.26	41.74	54.00	-12.26
2384.40	Peak	60.91	0.26	61.17	74.00	-12.83
2389.92	Average	42.35	0.24	42.59	54.00	-11.41
2389.92	Peak	58.88	0.24	59.12	74.00	-14.88
2483.50	Average	44.20	-0.17	44.03	54.00	-9.97
2483.50	Peak	60.51	-0.17	60.34	74.00	-13.66

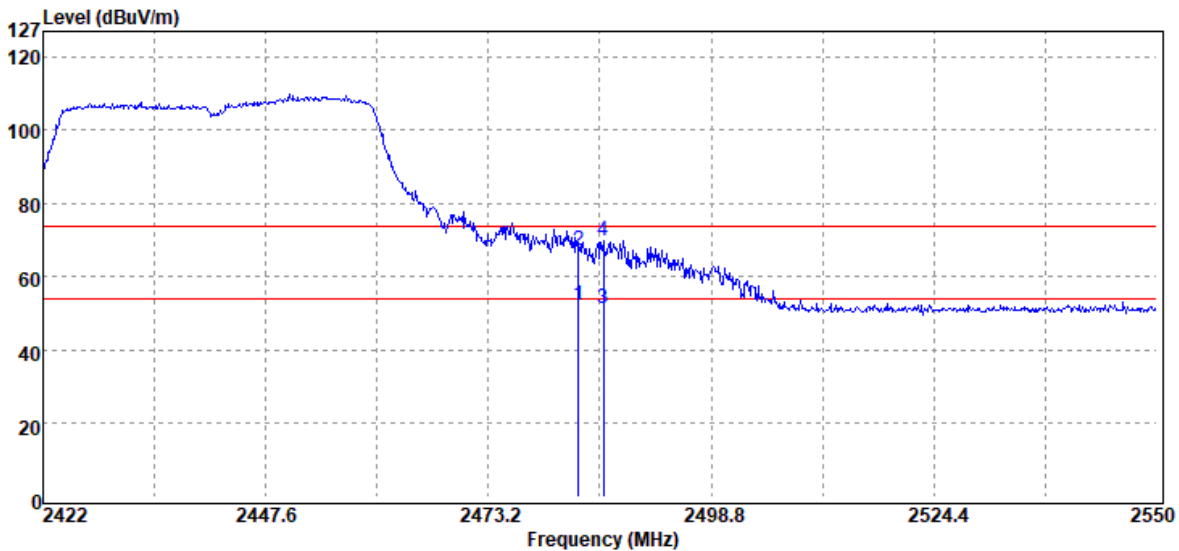
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2442 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



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	52.25	-0.17	52.08	54.00	-1.92
2483.50	Peak	67.39	-0.17	67.22	74.00	-6.78
2486.38	Average	51.65	-0.19	51.46	54.00	-2.54
2486.38	Peak	70.09	-0.19	69.90	74.00	-4.10

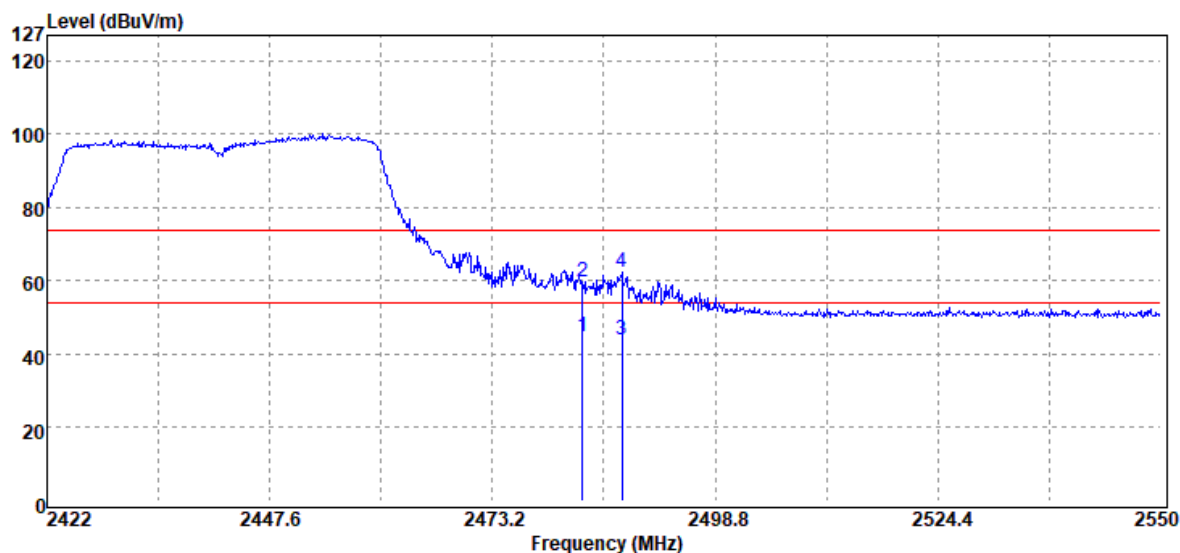
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2442 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.15	-0.17	44.98	54.00	-9.02
2483.50	Peak	60.09	-0.17	59.92	74.00	-14.08
2488.05	Average	44.21	-0.20	44.01	54.00	-9.99
2488.05	Peak	62.45	-0.20	62.25	74.00	-11.75

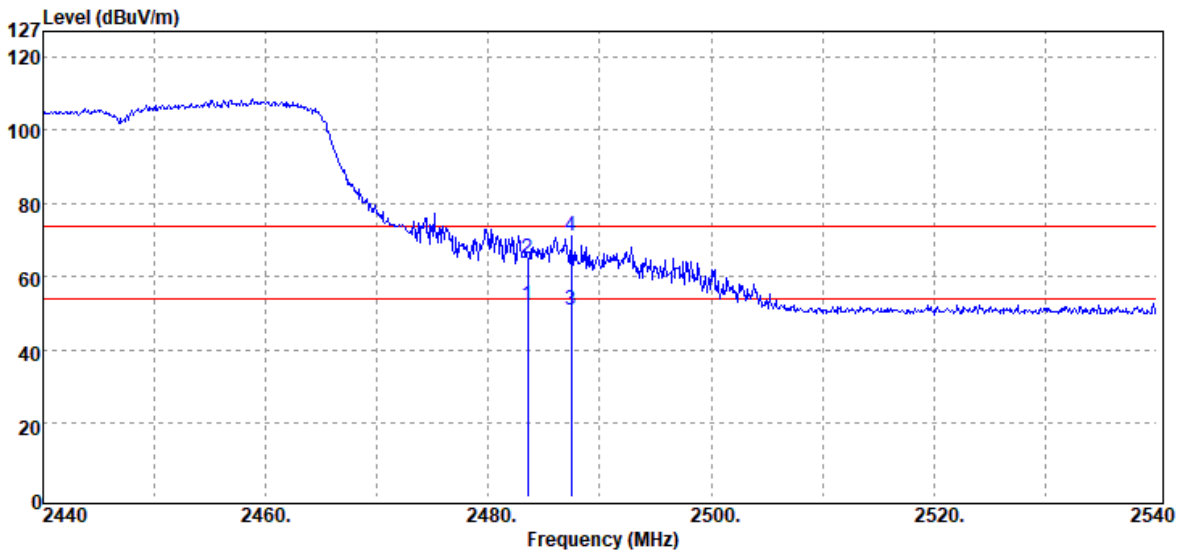
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.55	-0.17	52.38	54.00	-1.62
2483.50	Peak	65.24	-0.17	65.07	74.00	-8.93
2487.40	Average	51.30	-0.19	51.11	54.00	-2.89
2487.40	Peak	71.24	-0.19	71.05	74.00	-2.95

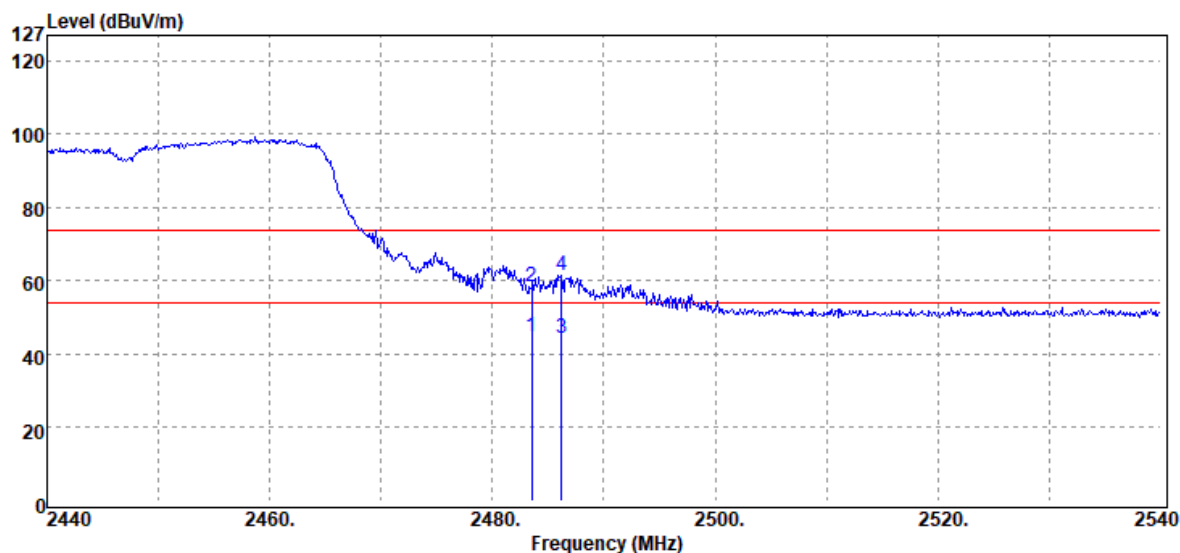
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.00	-0.17	44.83	54.00	-9.17
2483.50	Peak	58.70	-0.17	58.53	74.00	-15.47
2486.20	Average	44.64	-0.19	44.45	54.00	-9.55
2486.20	Peak	61.76	-0.19	61.57	74.00	-12.43

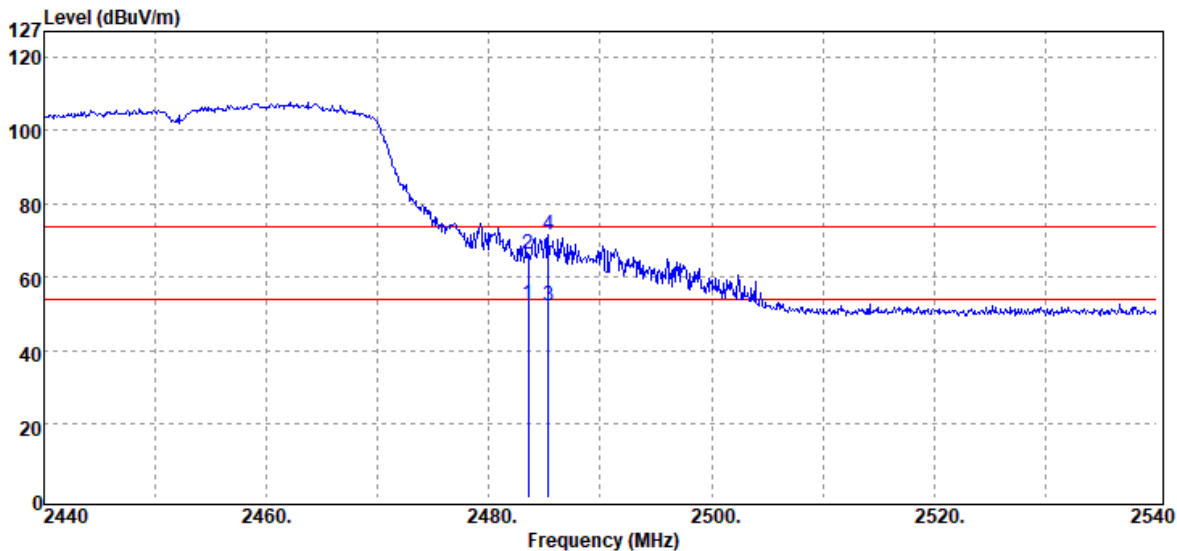
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Thomas



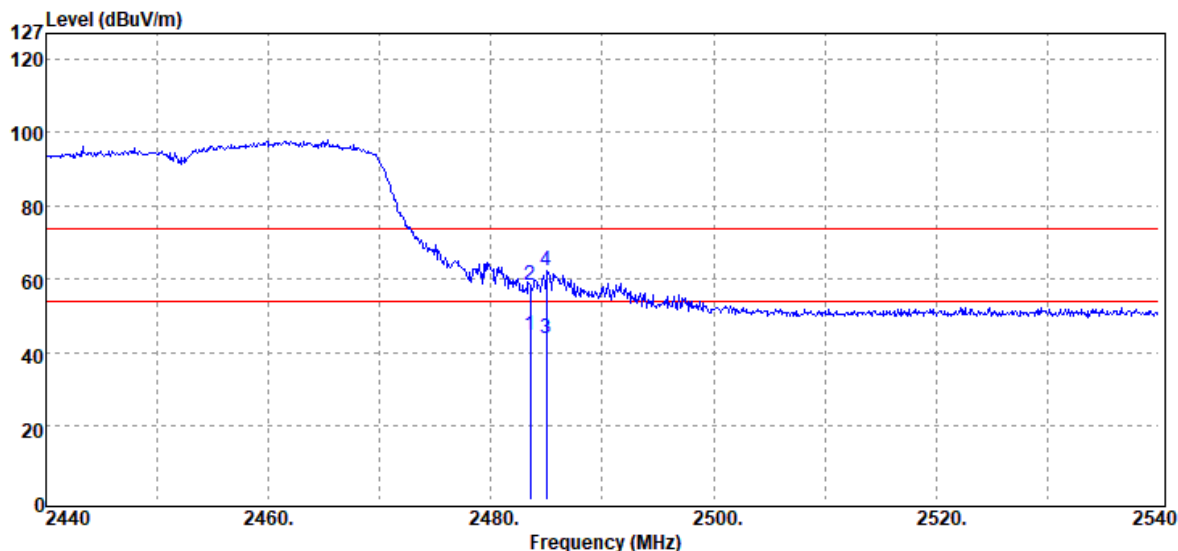
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	52.85	-0.17	52.68	54.00	-1.32
2483.50	Peak	66.66	-0.17	66.49	74.00	-7.51
2485.30	Average	52.30	-0.18	52.12	54.00	-1.88
2485.30	Peak	71.62	-0.18	71.44	74.00	-2.56

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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-17
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	45.00	-0.17	44.83	54.00	-9.17
2483.50	Peak	58.48	-0.17	58.31	74.00	-15.69
2485.00	Average	44.18	-0.18	44.00	54.00	-10.00
2485.00	Peak	62.63	-0.18	62.45	74.00	-11.55

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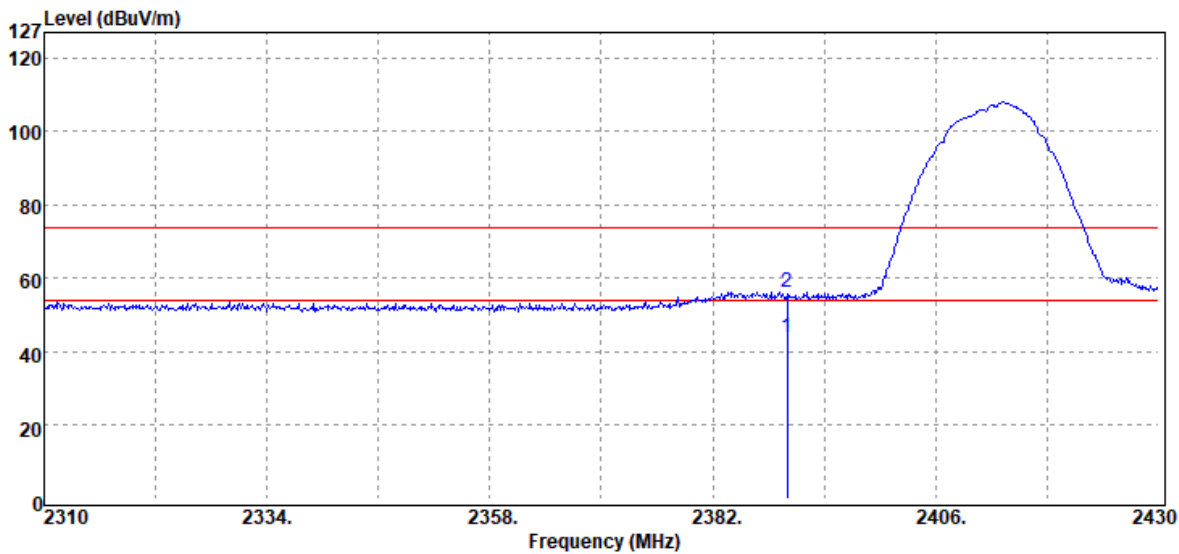
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PCB Antenna (Part No.: ANT-X100P001B24553)

Report Number :ER/2019/B0064
 Operation Mode :802.11b
 Test Channel :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-23
 Temp./Humi. :22.6/62
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	43.50	0.24	43.74	54.00	-10.26
2390.00	Peak	56.14	0.24	56.38	74.00	-17.62

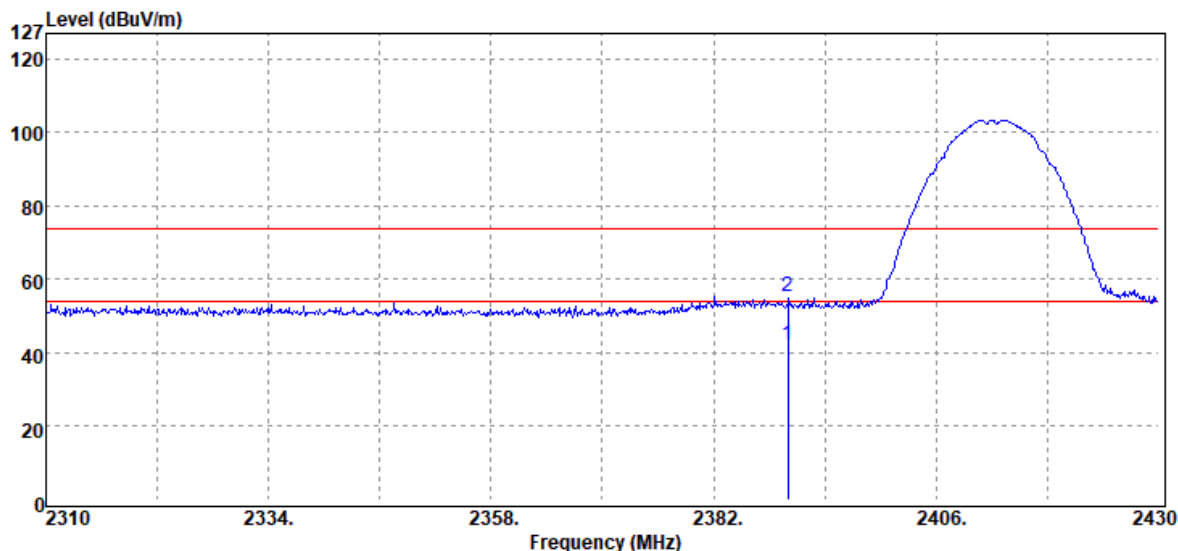
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	41.81	0.24	42.05	54.00	-11.95
2390.00	Peak	54.95	0.24	55.19	74.00	-18.81

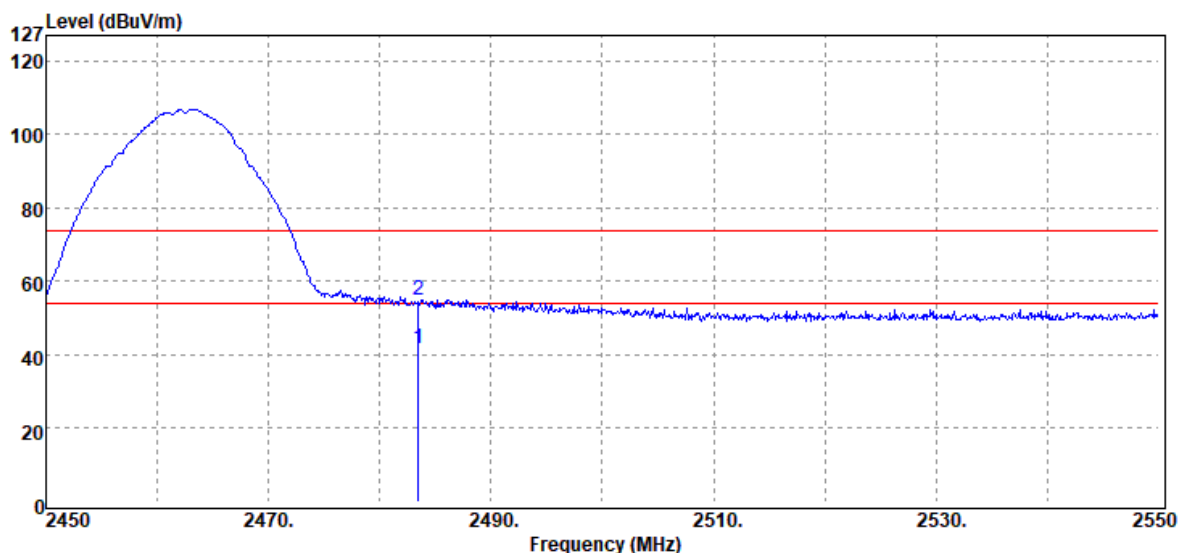
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	42.00	-0.17	41.83	54.00	-12.17
2483.50	Peak	55.31	-0.17	55.14	74.00	-18.86

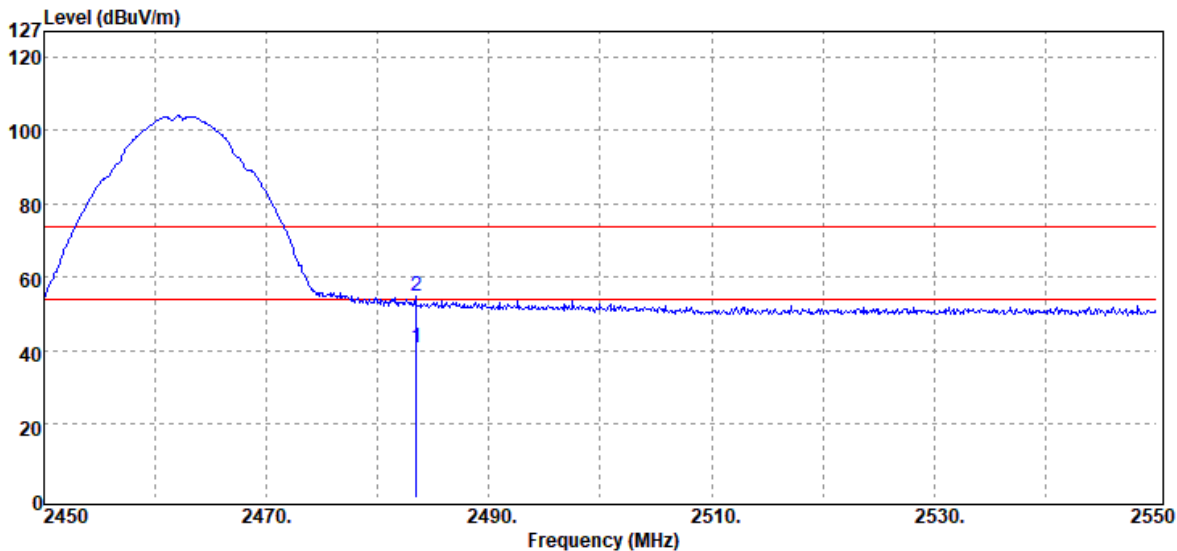
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	41.10	-0.17	40.93	54.00	-13.07
2483.50	Peak	55.10	-0.17	54.93	74.00	-19.07

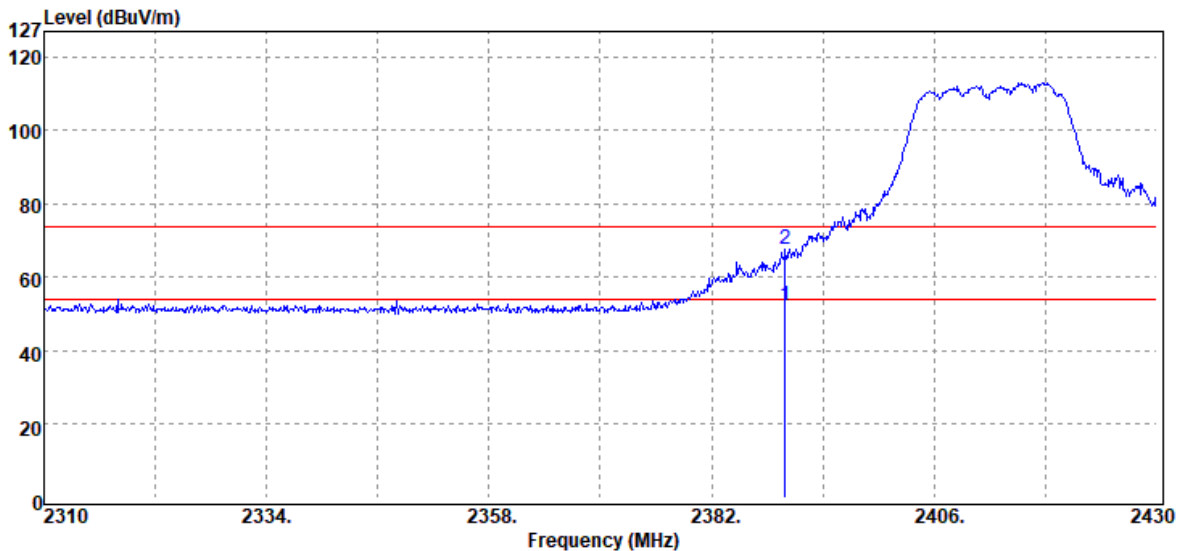
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.92	Average	52.00	0.24	52.24	54.00	-1.76
2389.92	Peak	67.30	0.24	67.54	74.00	-6.46

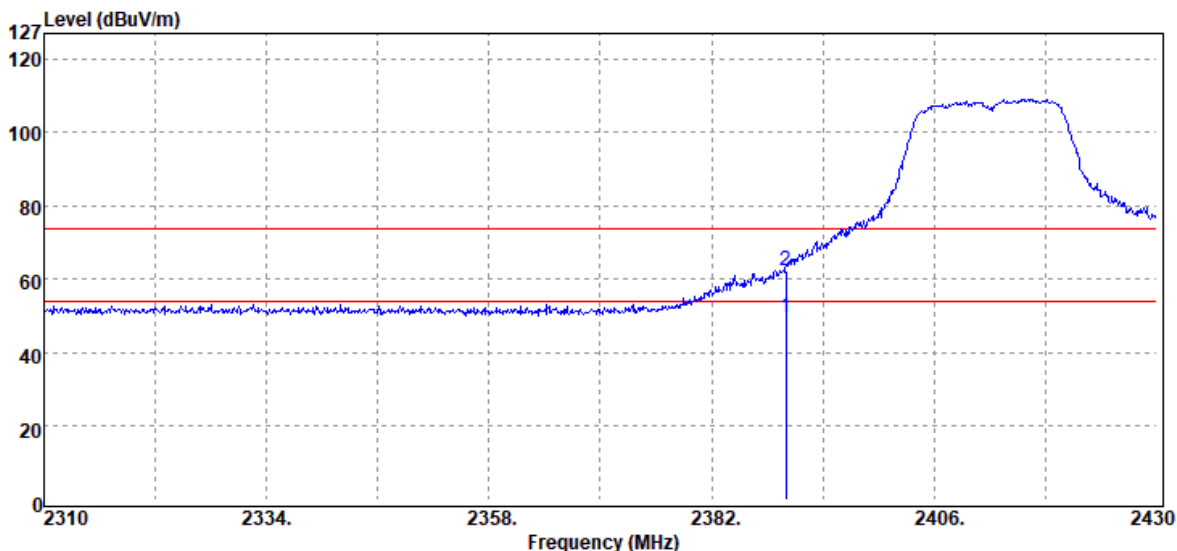
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	49.51	0.24	49.75	54.00	-4.25
2390.00	Peak	62.28	0.24	62.52	74.00	-11.48

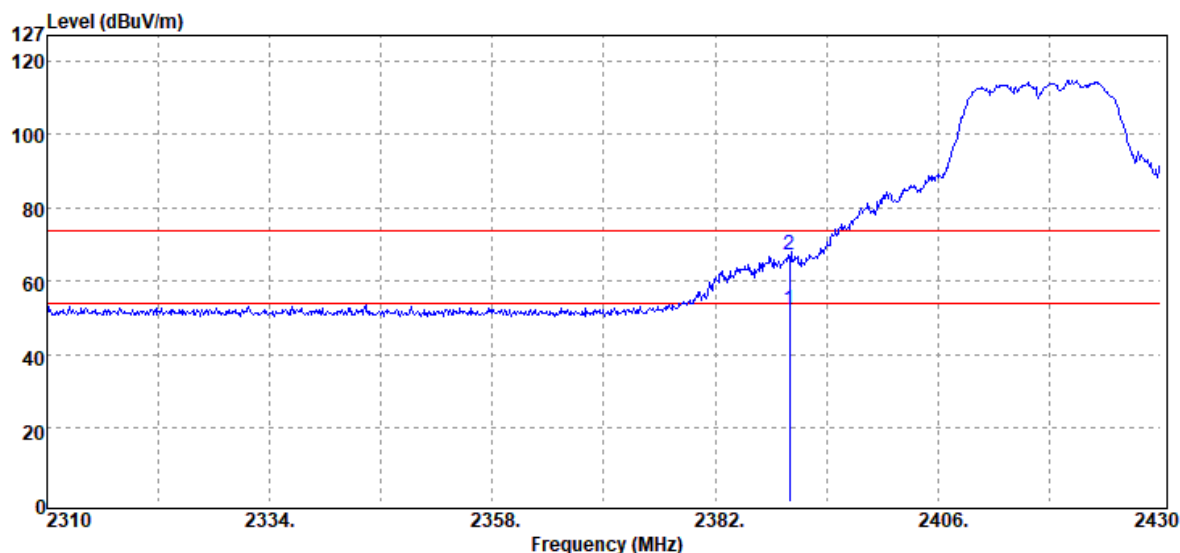
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	52.00	0.24	52.24	54.00	-1.76
2390.00	Peak	66.84	0.24	67.08	74.00	-6.92

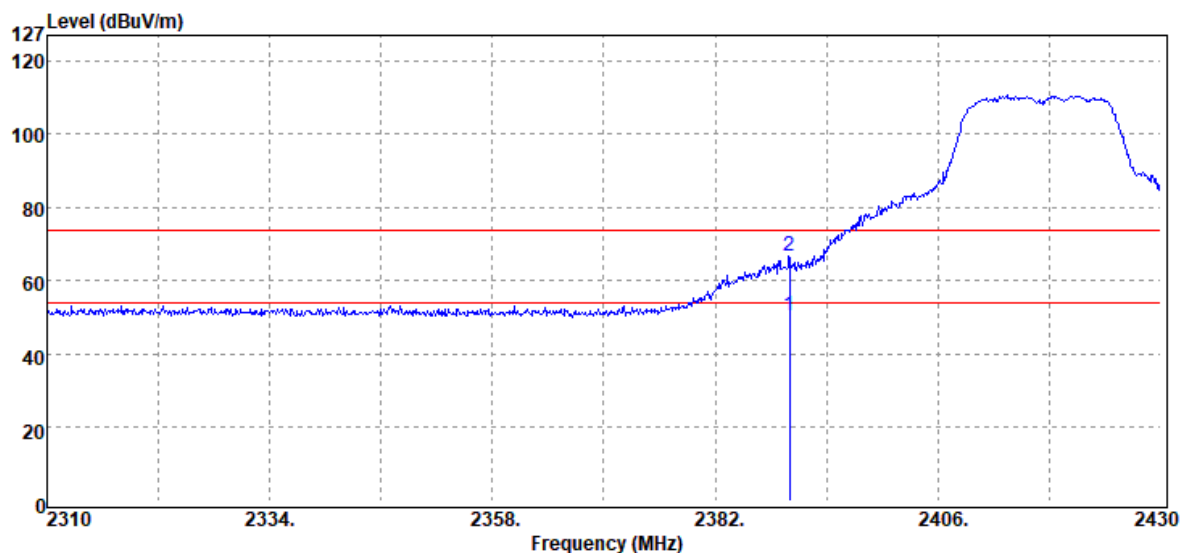
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	50.10	0.24	50.34	54.00	-3.66
2390.00	Peak	66.52	0.24	66.76	74.00	-7.24

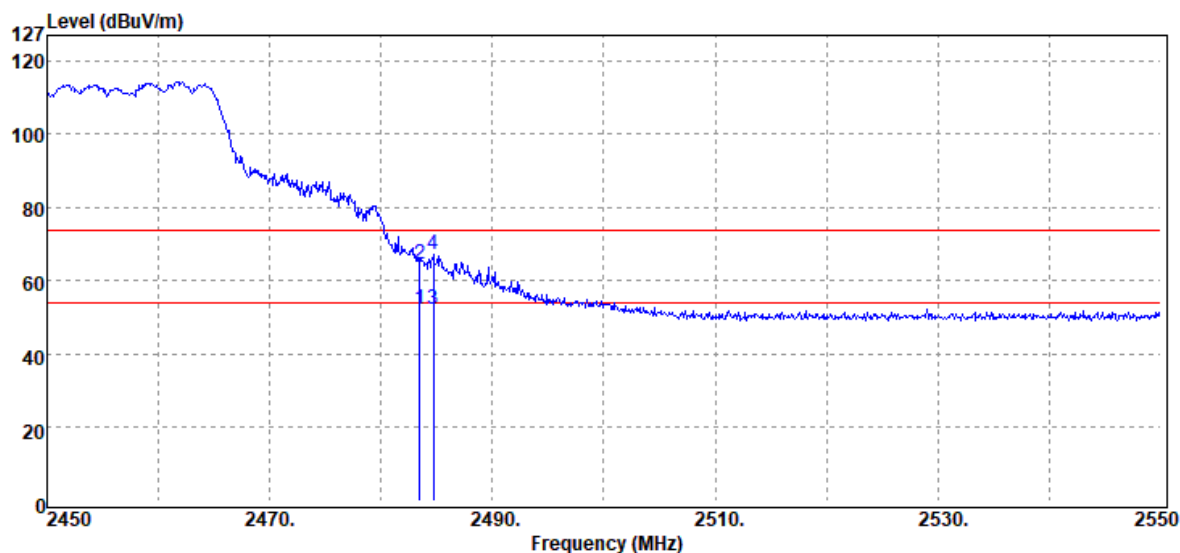
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.30	-0.17	52.13	54.00	-1.87
2483.50	Peak	64.74	-0.17	64.57	74.00	-9.43
2484.70	Average	52.50	-0.18	52.32	54.00	-1.68
2484.70	Peak	67.44	-0.18	67.26	74.00	-6.74

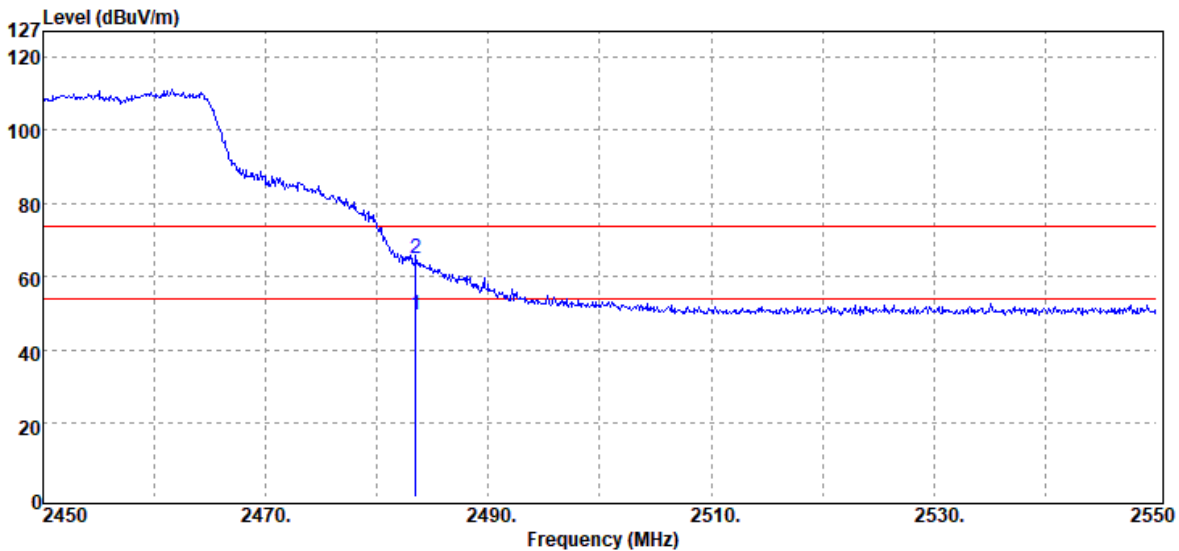
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



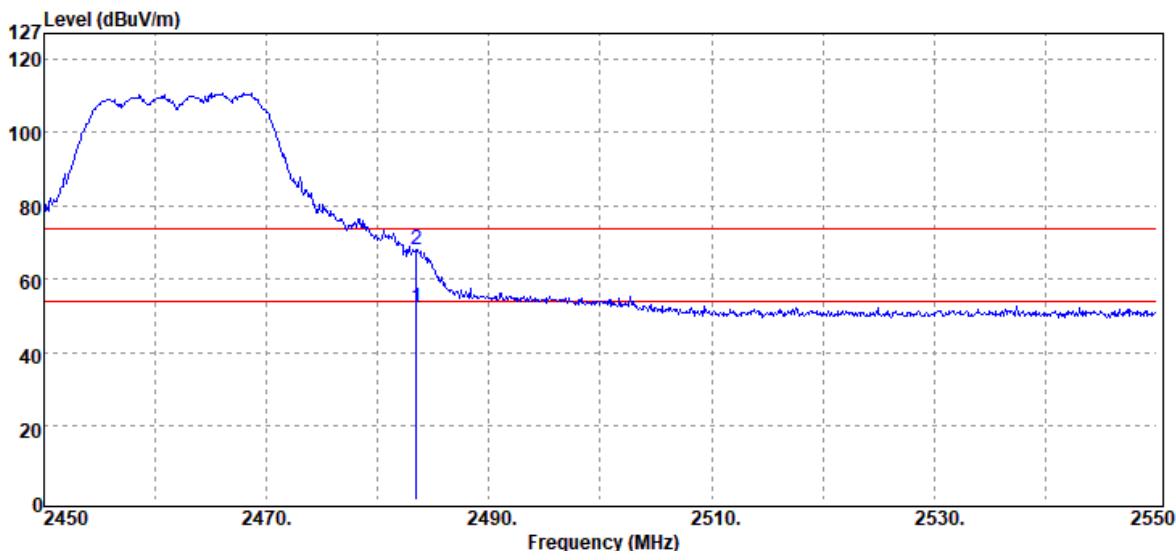
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	50.00	-0.17	49.83	54.00	-4.17
2483.50	Peak	65.17	-0.17	65.00	74.00	-9.00

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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	52.31	-0.17	52.14	54.00	-1.86
2483.50	Peak	68.49	-0.17	68.32	74.00	-5.68

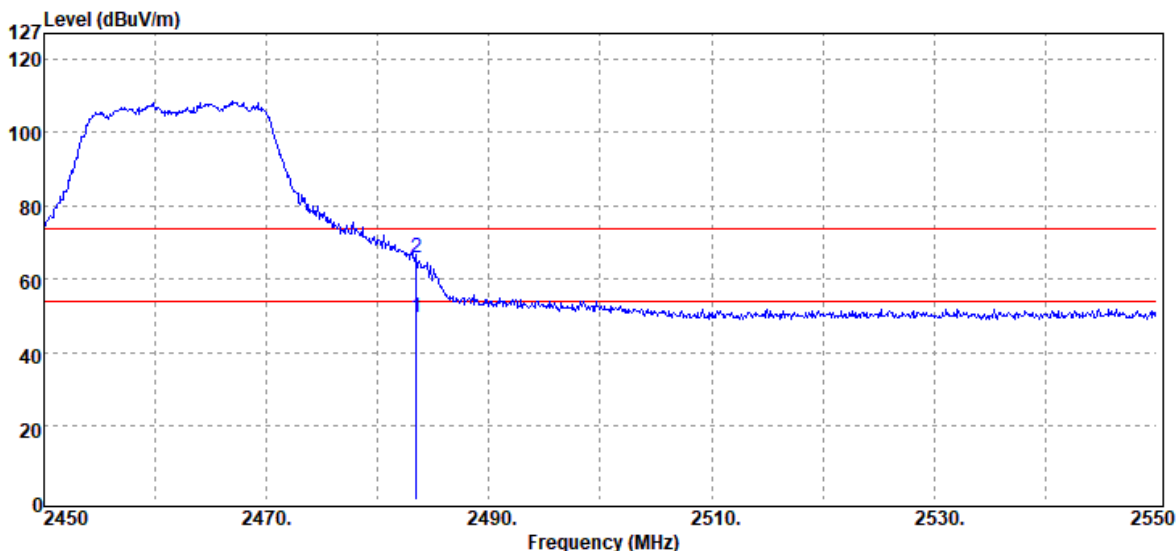
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	50.00	-0.17	49.83	54.00	-4.17
2483.50	Peak	65.96	-0.17	65.79	74.00	-8.21

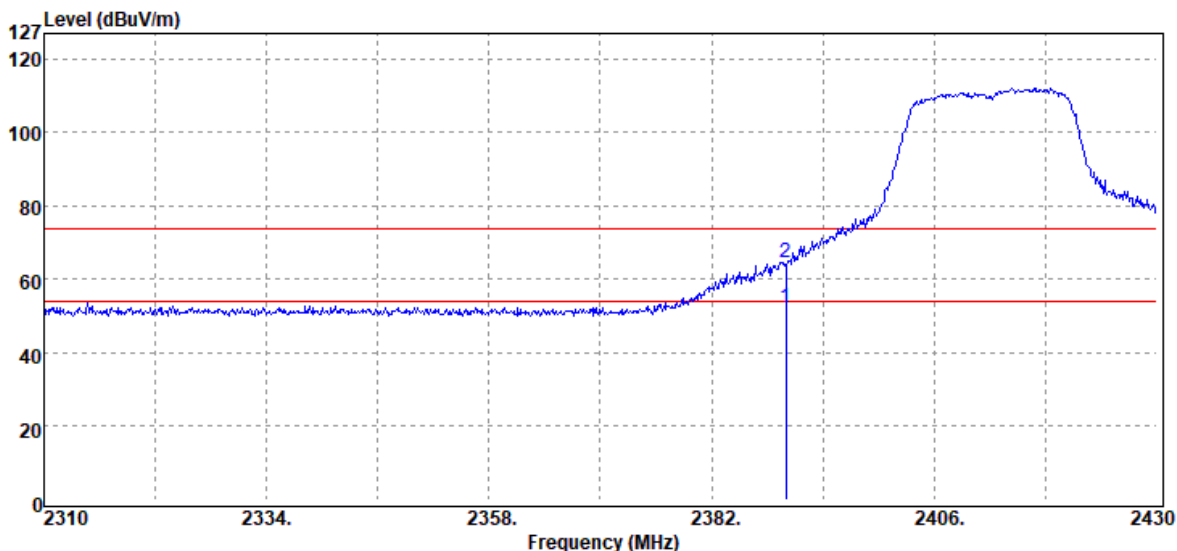
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	51.88	0.24	52.12	54.00	-1.88
2390.00	Peak	64.52	0.24	64.76	74.00	-9.24

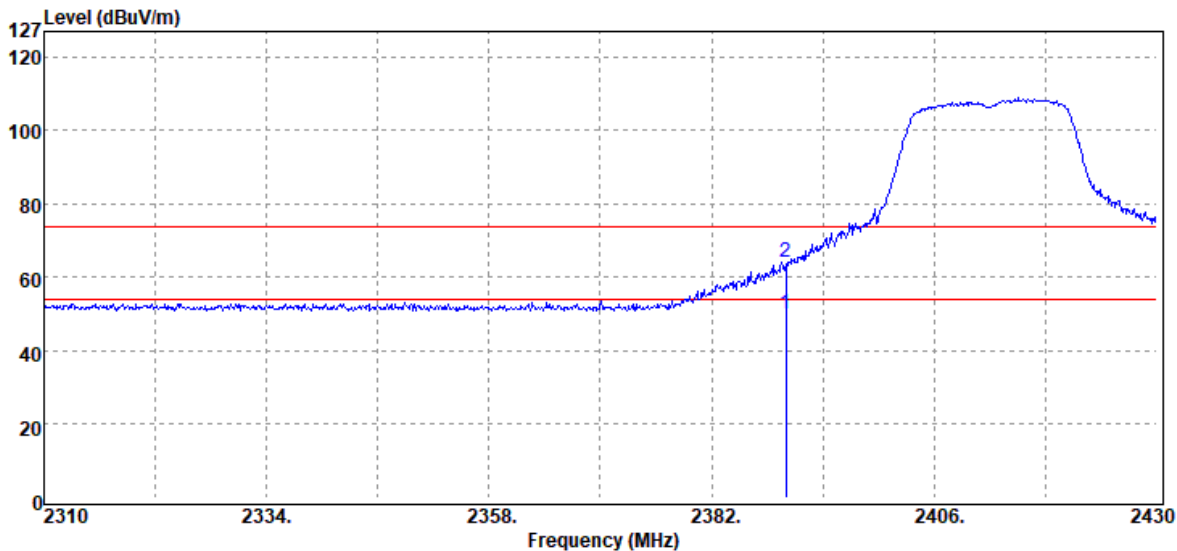
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	50.07	0.24	50.31	54.00	-3.69
2390.00	Peak	63.85	0.24	64.09	74.00	-9.91

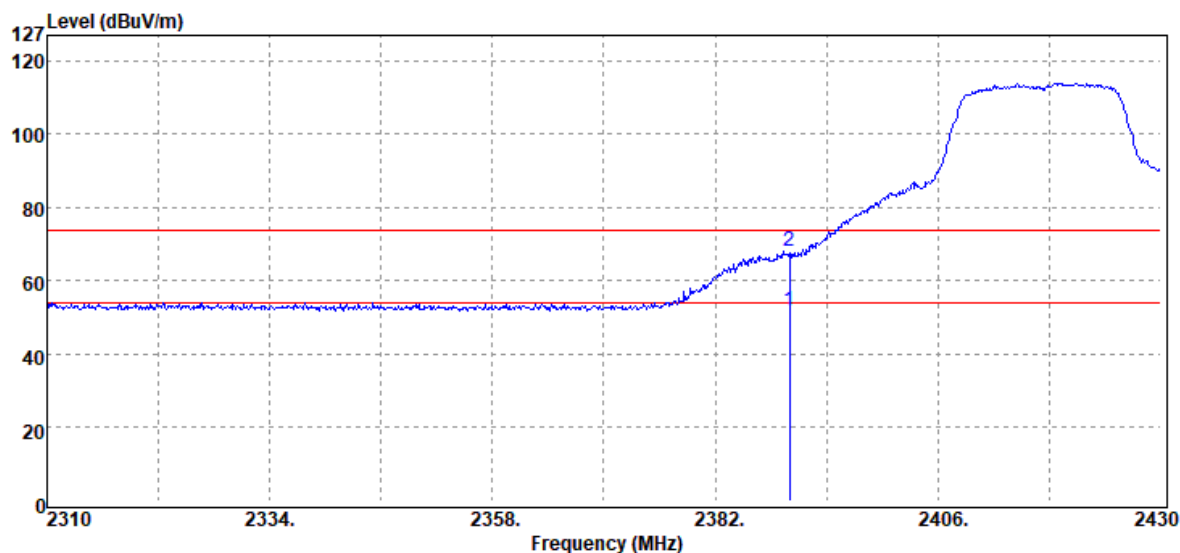
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	51.70	0.24	51.94	54.00	-2.06
2390.00	Peak	67.71	0.24	67.95	74.00	-6.05

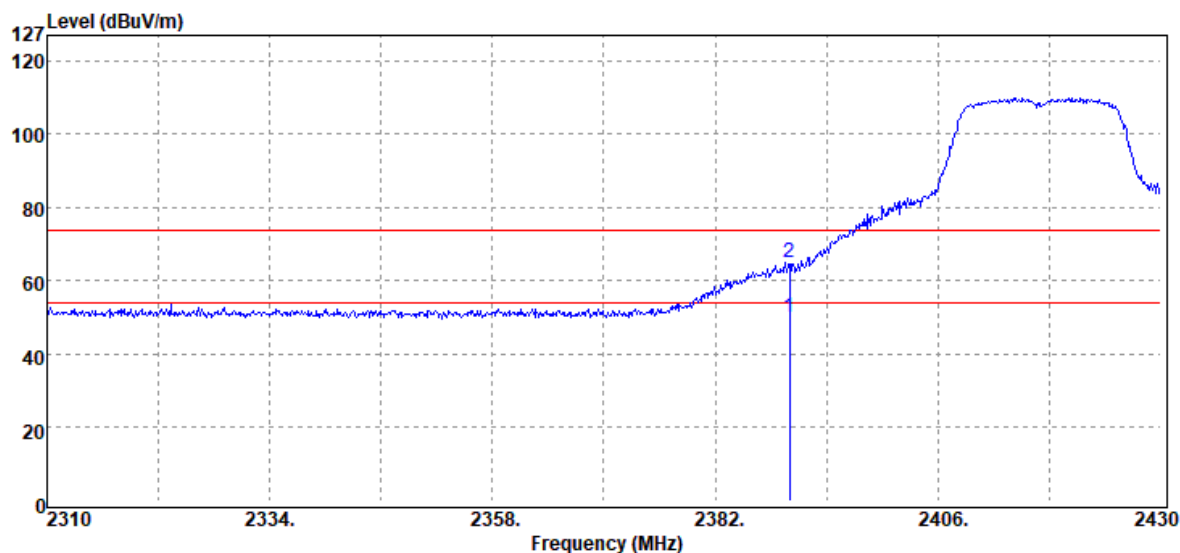
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	49.90	0.24	50.14	54.00	-3.86
2390.00	Peak	64.91	0.24	65.15	74.00	-8.85

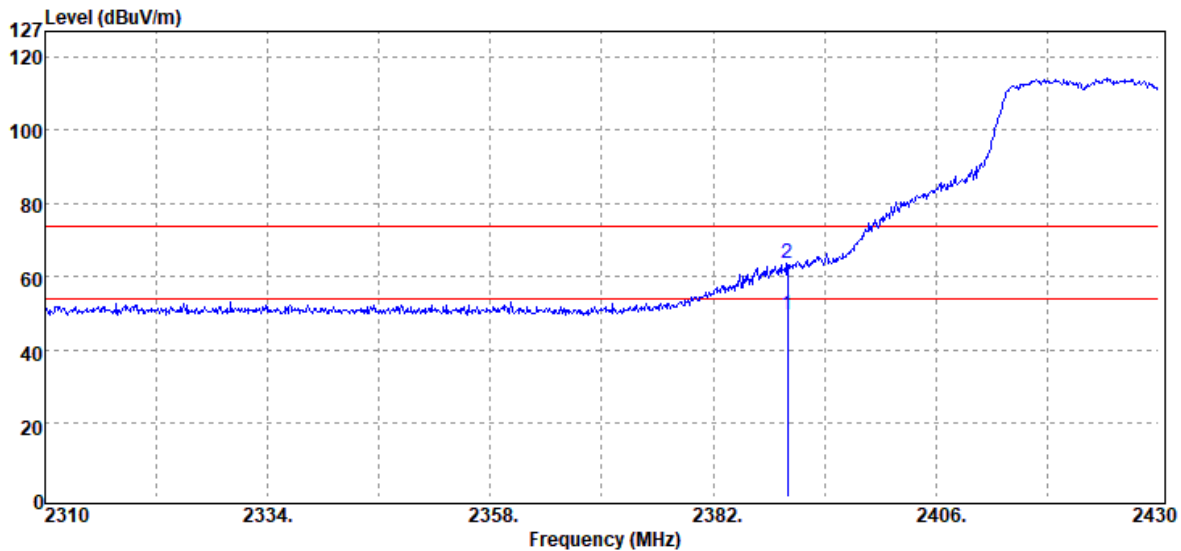
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	49.55	0.24	49.79	54.00	-4.21
2390.00	Peak	63.30	0.24	63.54	74.00	-10.46

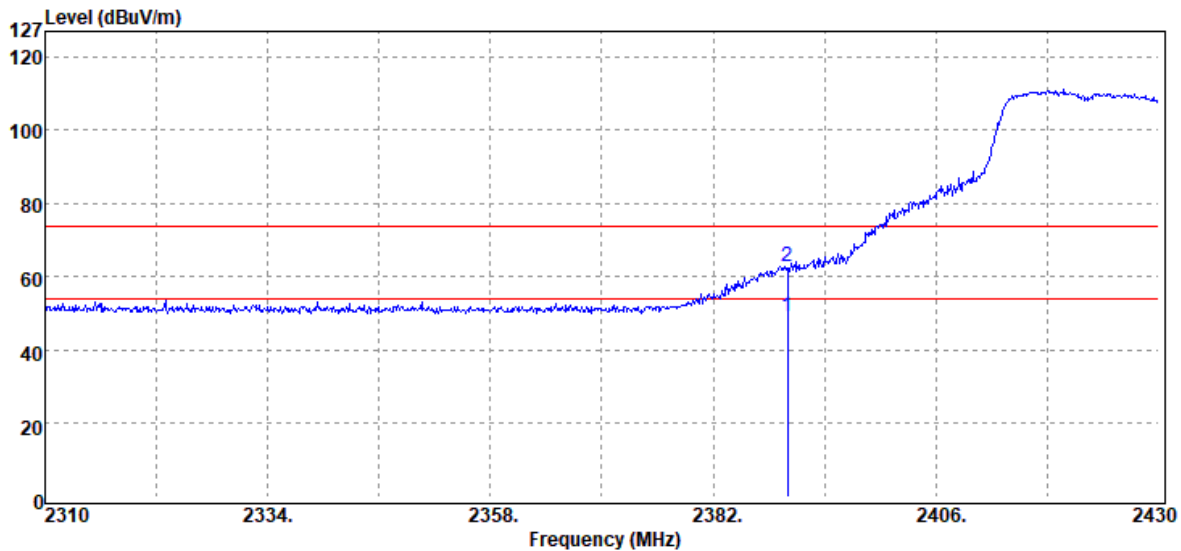
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-23
Temp./Humi. :22.6/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	48.77	0.24	49.01	54.00	-4.99
2390.00	Peak	62.60	0.24	62.84	74.00	-11.16

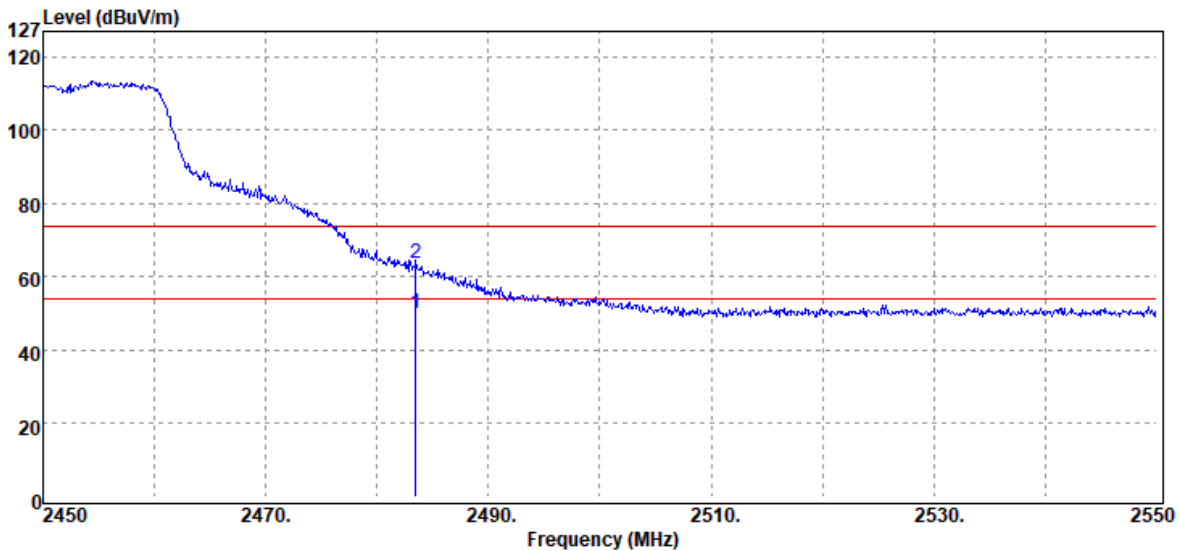
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



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	50.10	-0.17	49.93	54.00	-4.07
2483.50	Peak	64.01	-0.17	63.84	74.00	-10.16

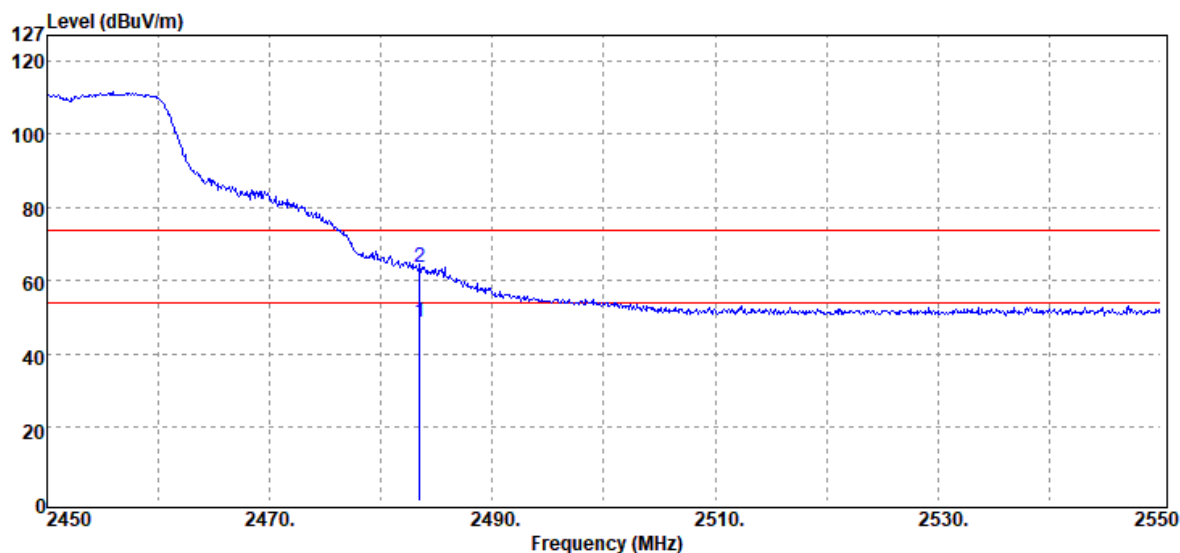
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	49.15	-0.17	48.98	54.00	-5.02
2483.50	Peak	64.07	-0.17	63.90	74.00	-10.10

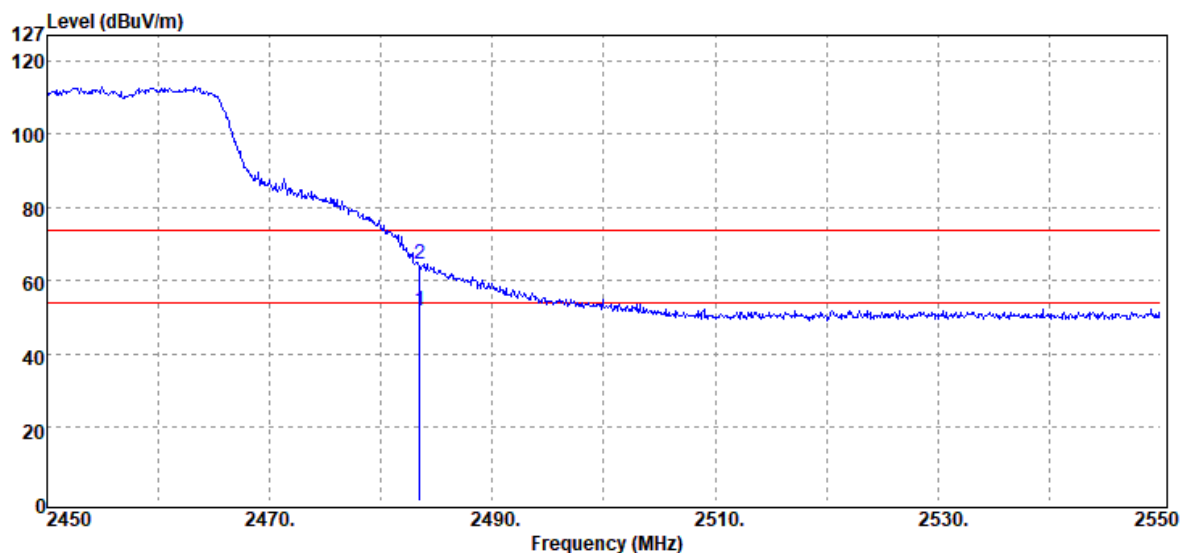
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.00	-0.17	51.83	54.00	-2.17
2483.50	Peak	64.95	-0.17	64.78	74.00	-9.22

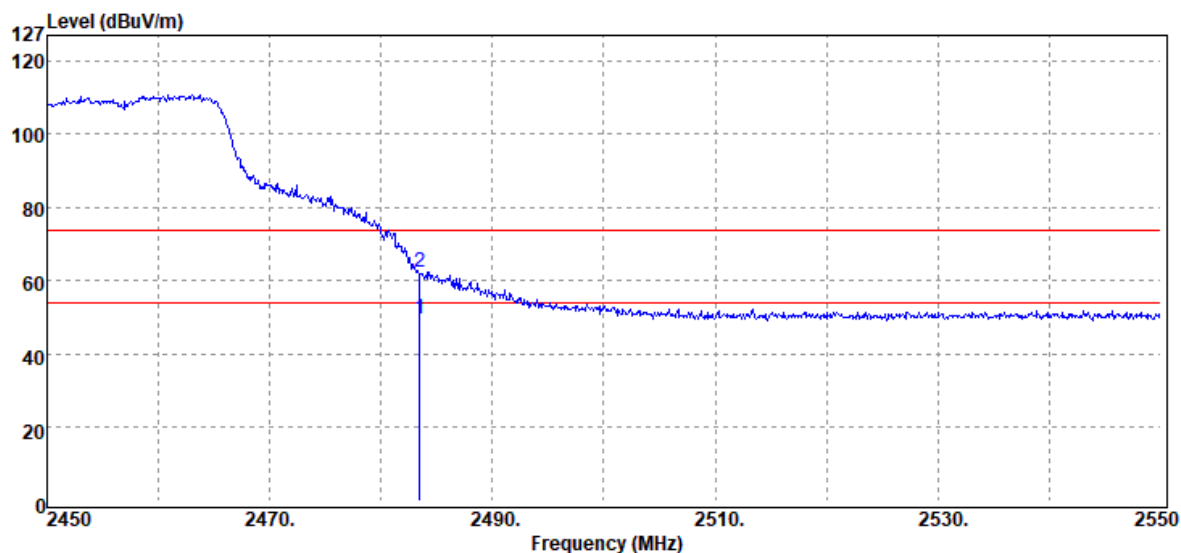
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	49.61	-0.17	49.44	54.00	-4.56
2483.50	Peak	62.43	-0.17	62.26	74.00	-11.74

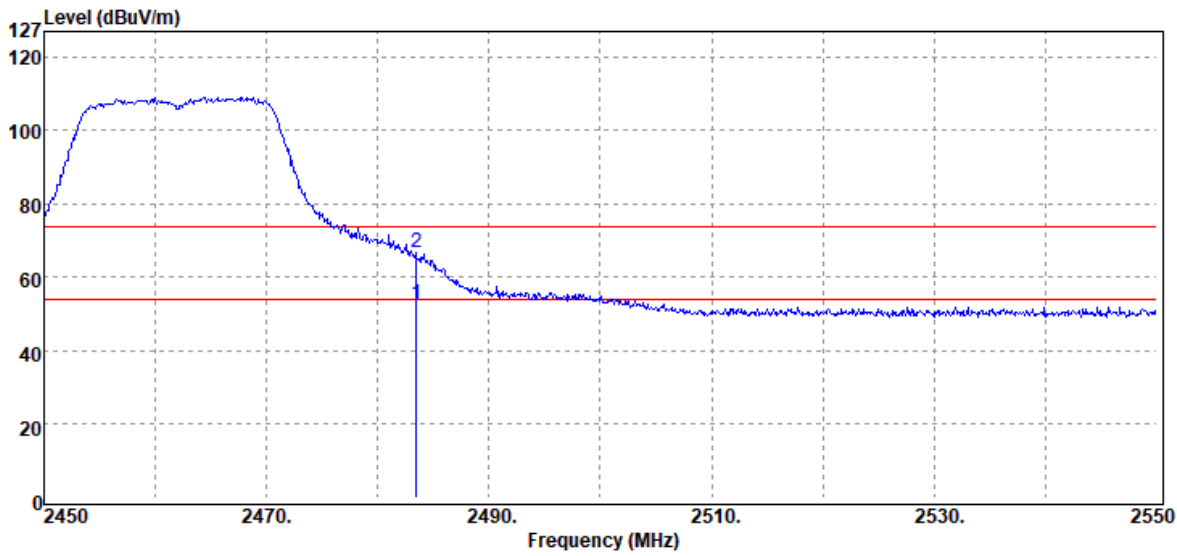
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	53.00	-0.17	52.83	54.00	-1.17
2483.50	Peak	67.14	-0.17	66.97	74.00	-7.03

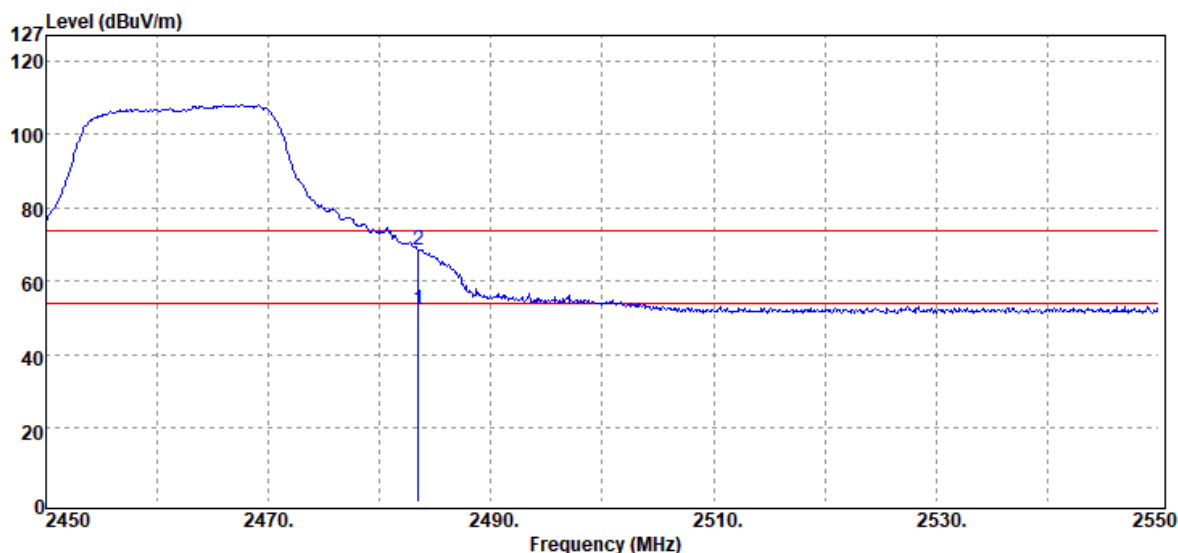
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	52.40	-0.17	52.23	54.00	-1.77
2483.50	Peak	68.88	-0.17	68.71	74.00	-5.29

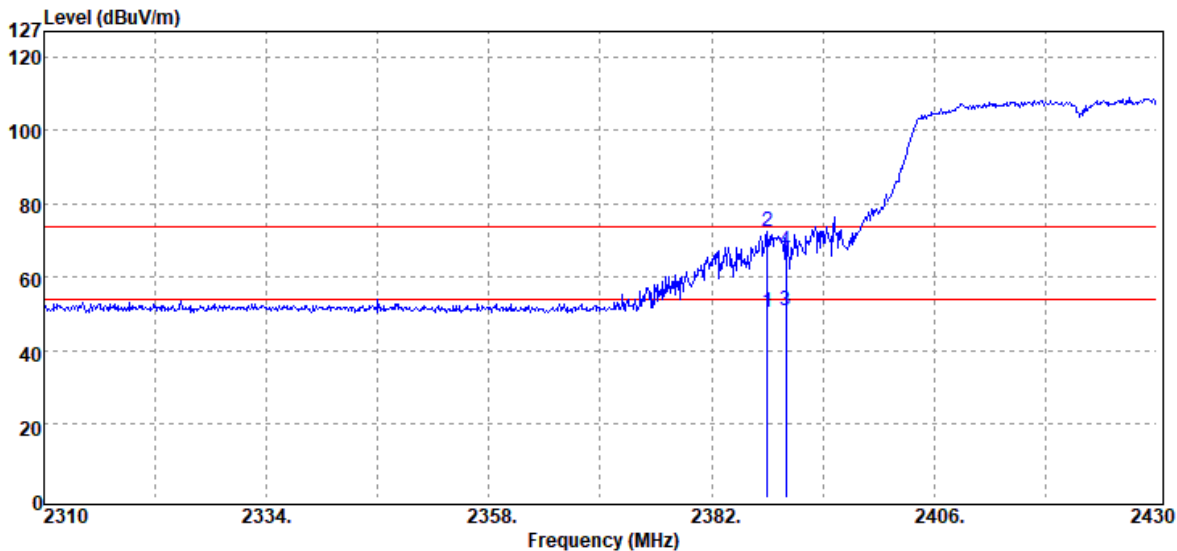
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.00	Average	50.43	0.25	50.68	54.00	-3.32
2388.00	Peak	72.29	0.25	72.54	74.00	-1.46
2390.00	Average	50.56	0.24	50.80	54.00	-3.20
2390.00	Peak	67.12	0.24	67.36	74.00	-6.64

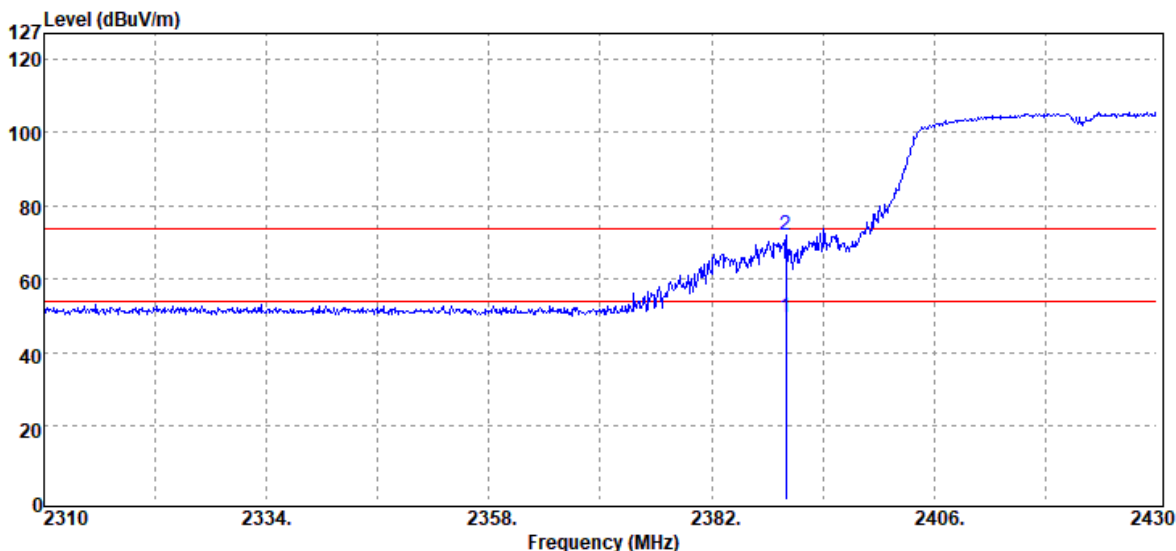
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	49.35	0.24	49.59	54.00	-4.41
2390.00	Peak	71.62	0.24	71.86	74.00	-2.14

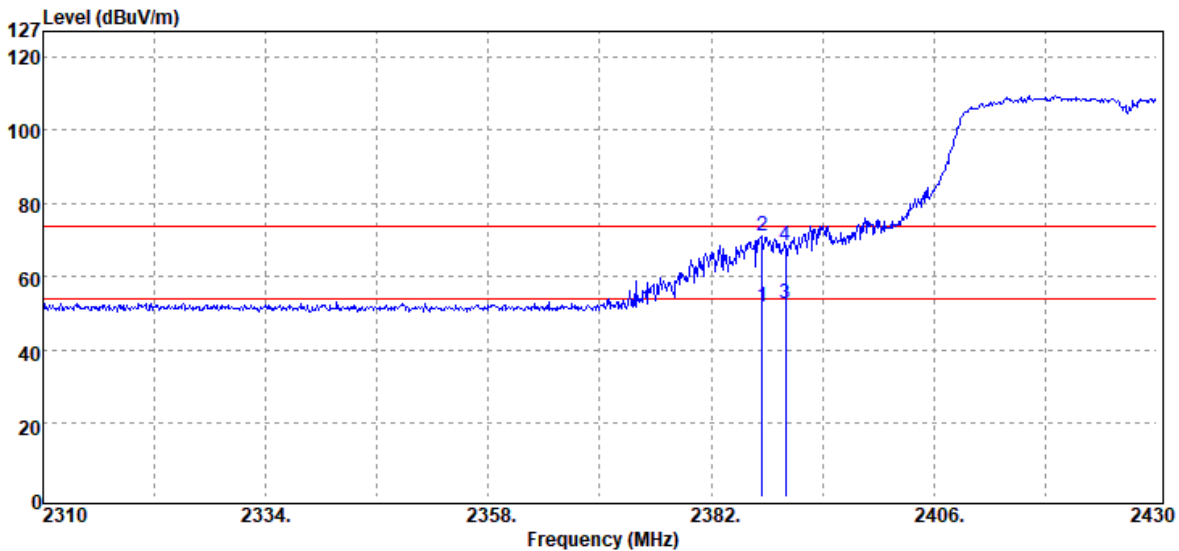
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.52	Average	51.70	0.25	51.95	54.00	-2.05
2387.52	Peak	71.05	0.25	71.30	74.00	-2.70
2390.04	Average	52.70	0.24	52.94	54.00	-1.06
2390.04	Peak	68.47	0.24	68.71	74.00	-5.29

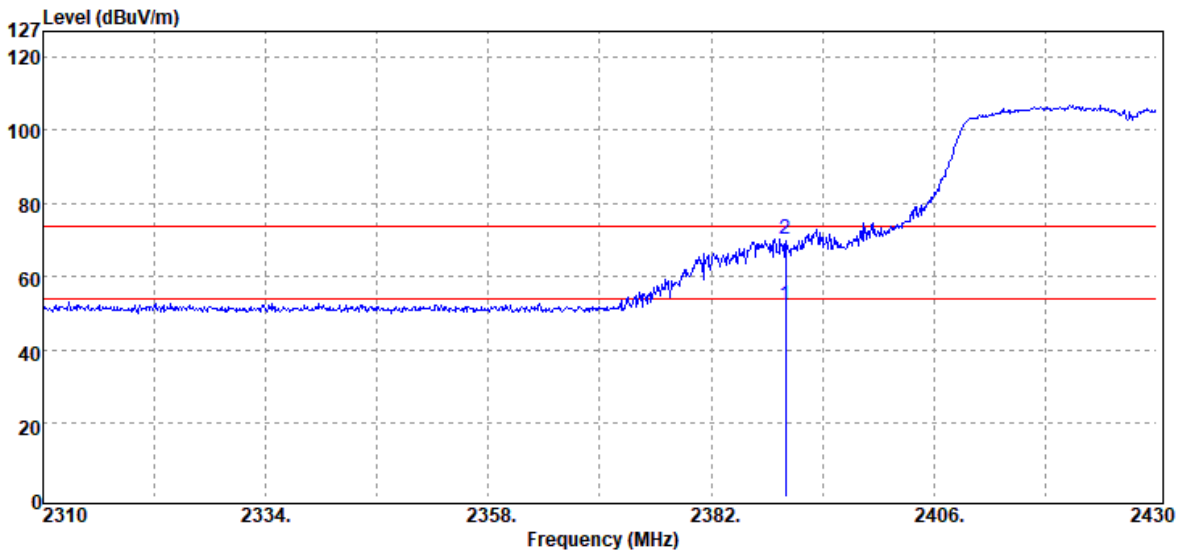
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	52.25	0.24	52.49	54.00	-1.51
2390.00	Peak	70.15	0.24	70.39	74.00	-3.61

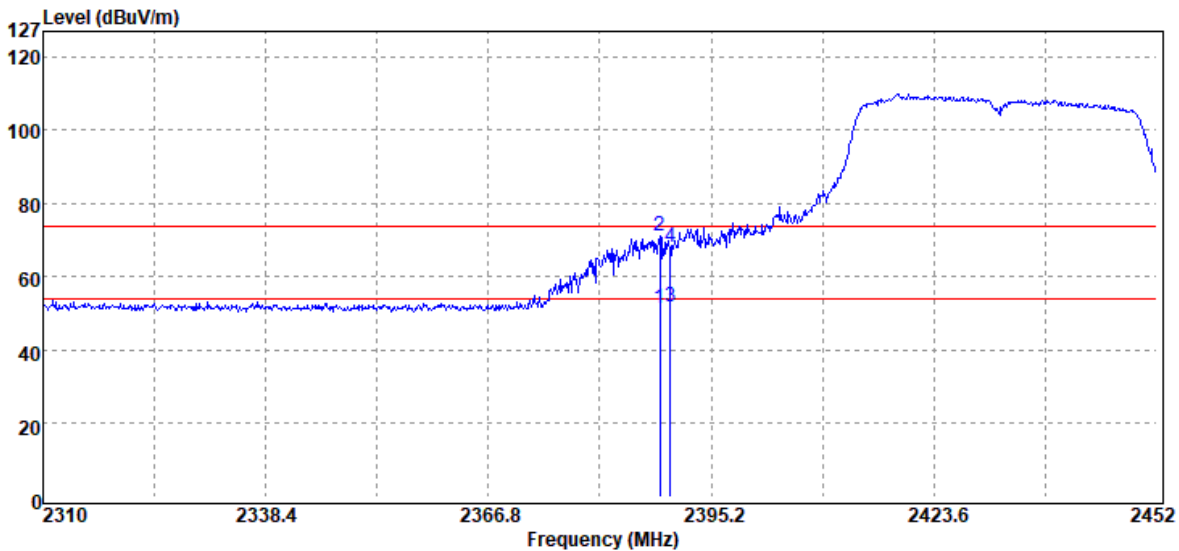
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2432 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.67	Average	51.21	0.24	51.45	54.00	-2.55
2388.67	Peak	70.80	0.24	71.04	74.00	-2.96
2389.95	Average	51.70	0.24	51.94	54.00	-2.06
2389.95	Peak	67.69	0.24	67.93	74.00	-6.07

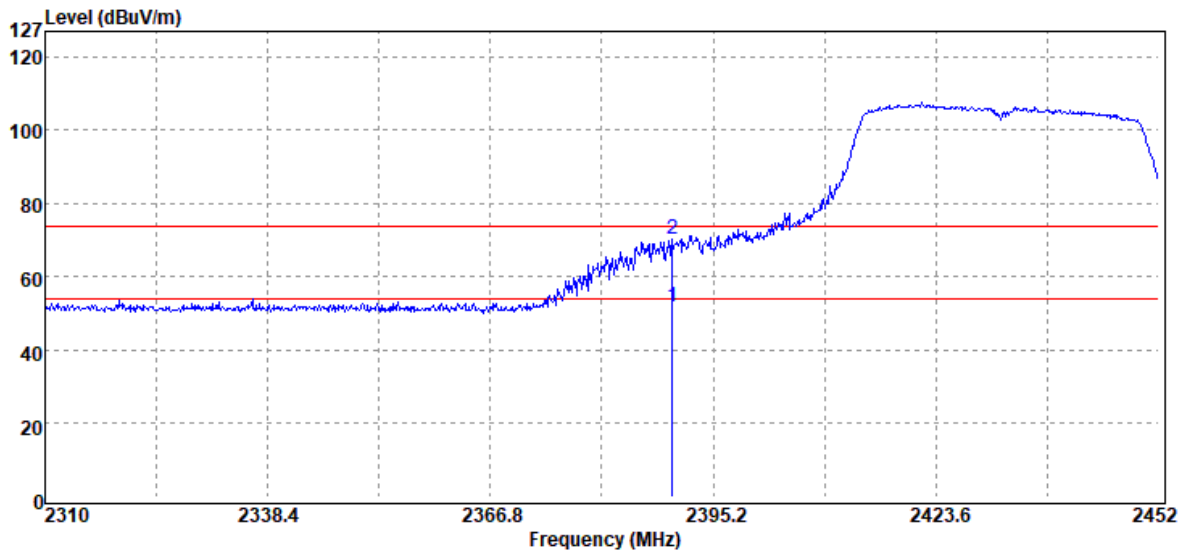
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2432 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	51.66	0.24	51.90	54.00	-2.10
2390.00	Peak	69.91	0.24	70.15	74.00	-3.85

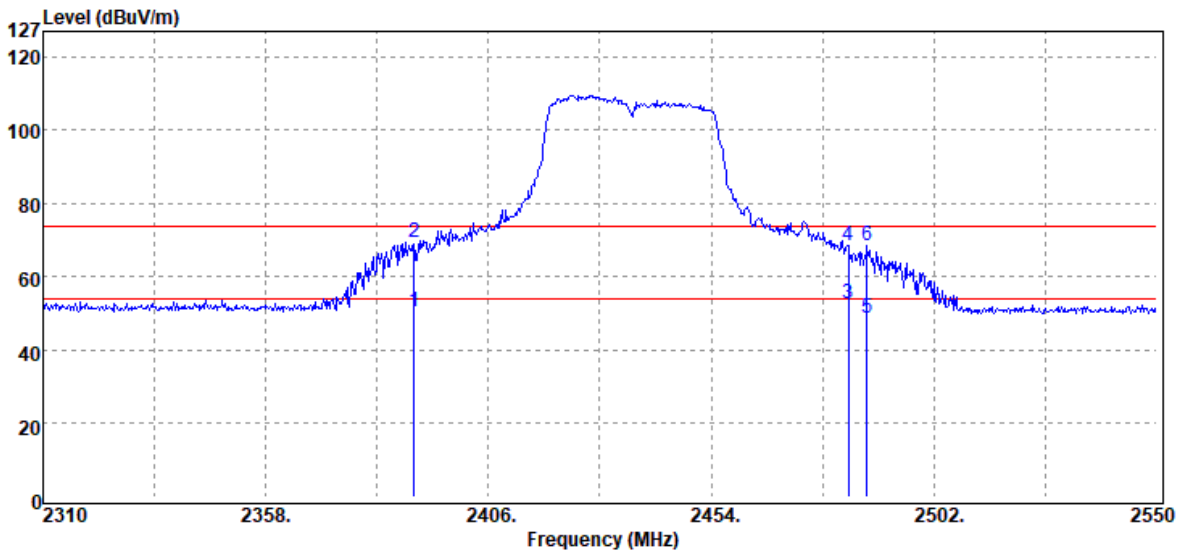
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Bandedge CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	50.25	0.24	50.49	54.00	-3.51
2390.00	Peak	69.13	0.24	69.37	74.00	-4.63
2483.50	Average	53.10	-0.17	52.93	54.00	-1.07
2483.50	Peak	68.52	-0.17	68.35	74.00	-5.65
2487.60	Average	48.81	-0.20	48.61	54.00	-5.39
2487.60	Peak	68.83	-0.20	68.63	74.00	-5.37

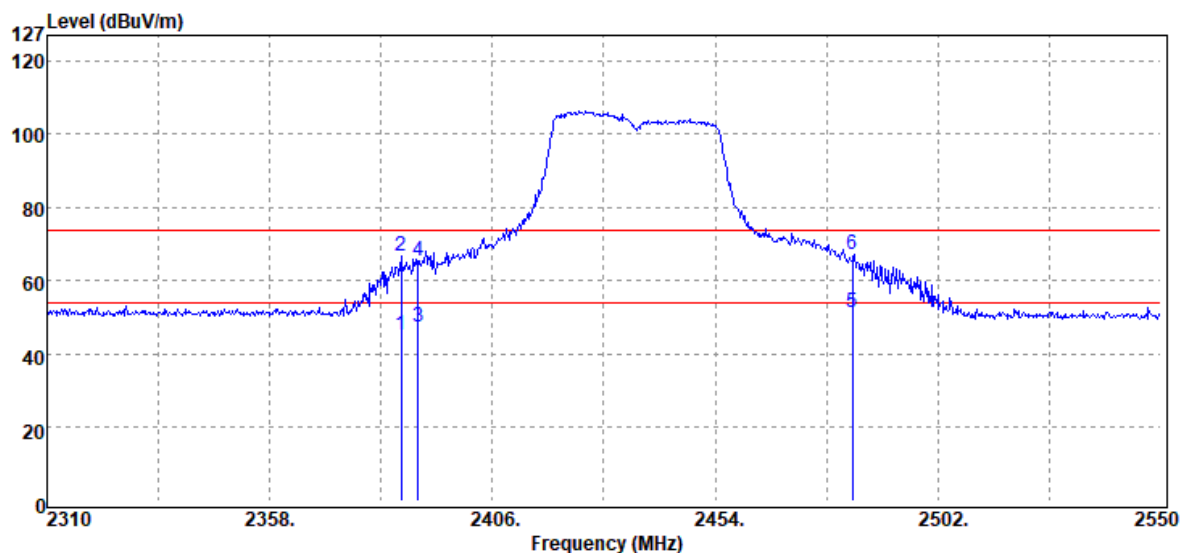
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Bandedge CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.32	Average	45.13	0.25	45.38	54.00	-8.62
2386.32	Peak	66.63	0.25	66.88	74.00	-7.12
2390.00	Average	47.41	0.24	47.65	54.00	-6.35
2390.00	Peak	65.38	0.24	65.62	74.00	-8.38
2483.50	Average	51.75	-0.17	51.58	54.00	-2.42
2483.50	Peak	67.56	-0.17	67.39	74.00	-6.61

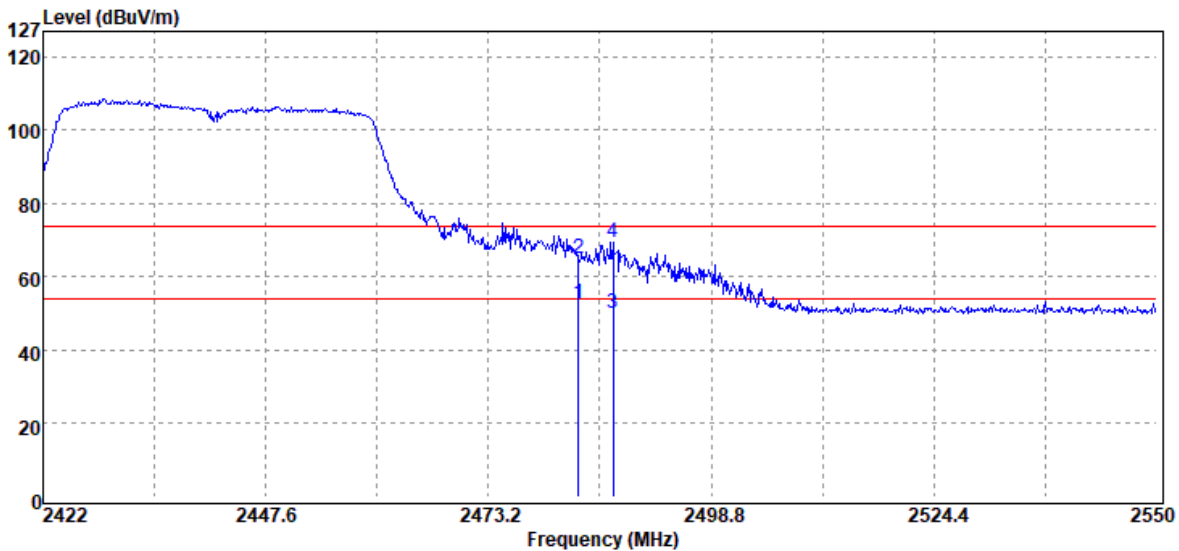
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2442 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.90	-0.17	52.73	54.00	-1.27
2483.50	Peak	65.11	-0.17	64.94	74.00	-9.06
2487.54	Average	50.33	-0.20	50.13	54.00	-3.87
2487.54	Peak	69.75	-0.20	69.55	74.00	-4.45

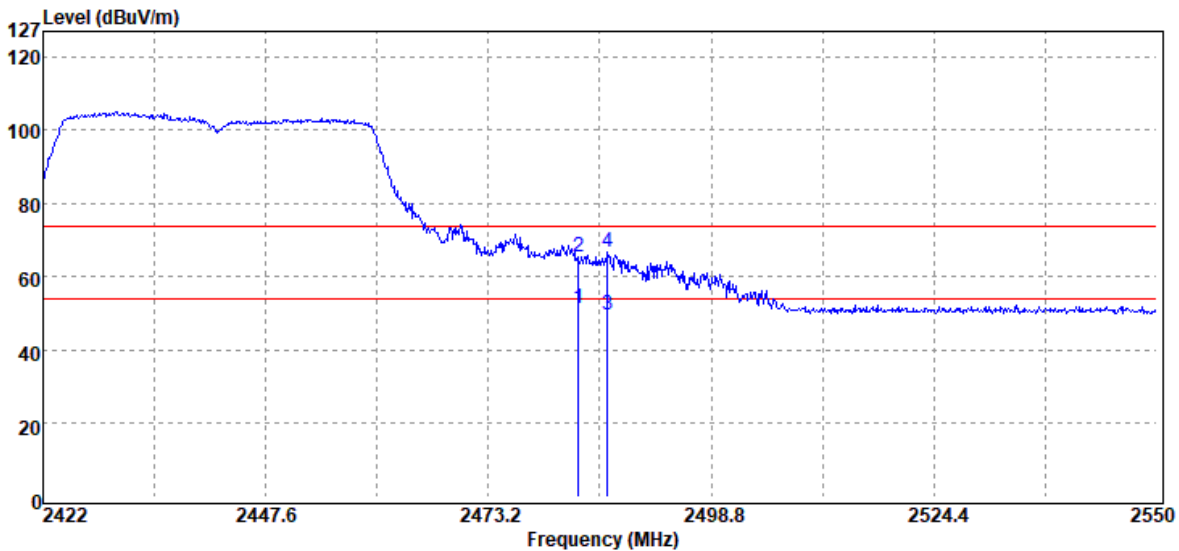
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2442 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	51.66	-0.17	51.49	54.00	-2.51
2483.50	Peak	65.58	-0.17	65.41	74.00	-8.59
2486.90	Average	49.71	-0.19	49.52	54.00	-4.48
2486.90	Peak	67.01	-0.19	66.82	74.00	-7.18

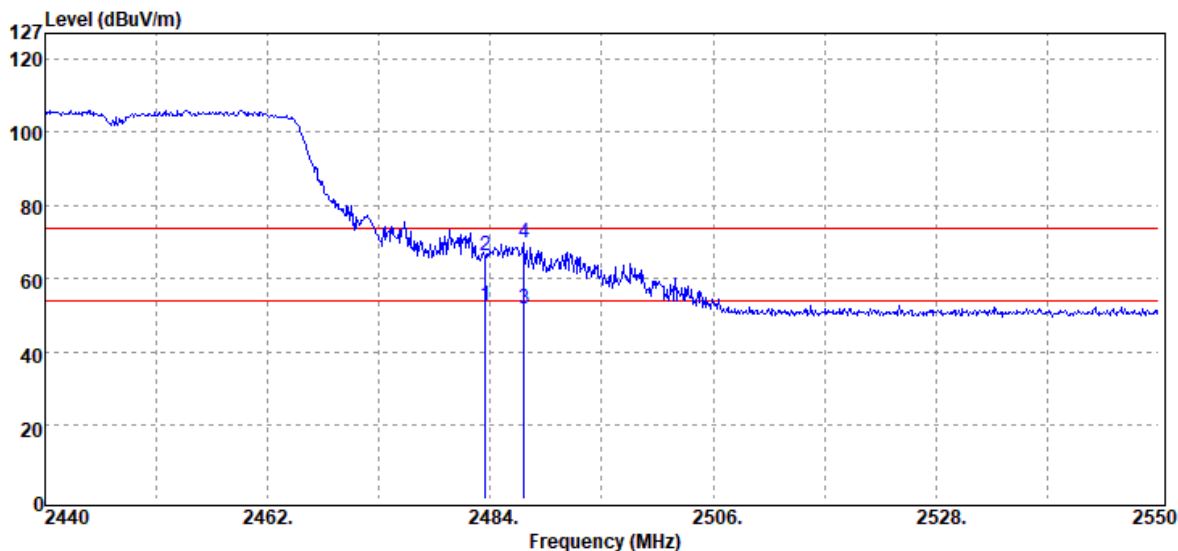
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



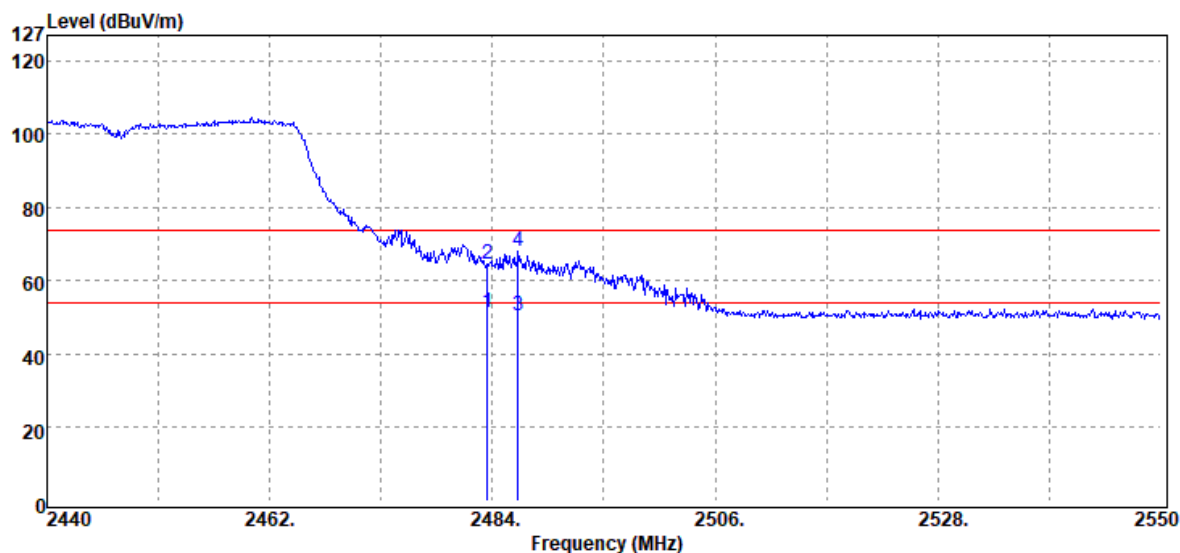
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	53.07	-0.17	52.90	54.00	-1.10
2483.50	Peak	66.40	-0.17	66.23	74.00	-7.77
2487.30	Average	52.14	-0.19	51.95	54.00	-2.05
2487.30	Peak	69.92	-0.19	69.73	74.00	-4.27

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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas


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	51.63	-0.17	51.46	54.00	-2.54
2483.50	Peak	64.82	-0.17	64.65	74.00	-9.35
2486.53	Average	50.70	-0.19	50.51	54.00	-3.49
2486.53	Peak	68.41	-0.19	68.22	74.00	-5.78

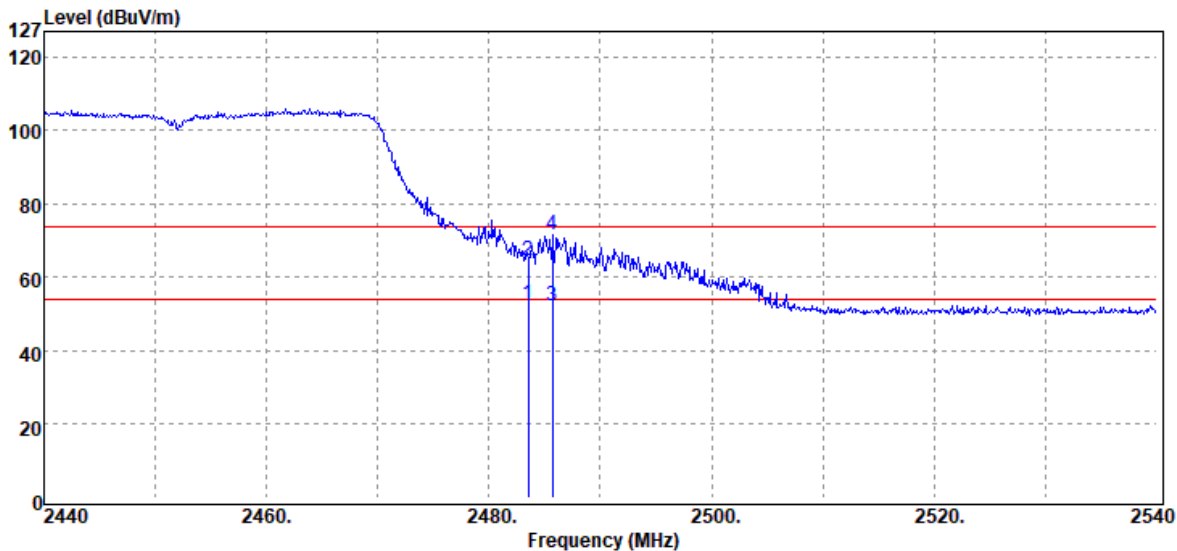
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	52.90	-0.17	52.73	54.00	-1.27
2483.50	Peak	64.73	-0.17	64.56	74.00	-9.44
2485.70	Average	52.42	-0.18	52.24	54.00	-1.76
2485.70	Peak	71.68	-0.18	71.50	74.00	-2.50

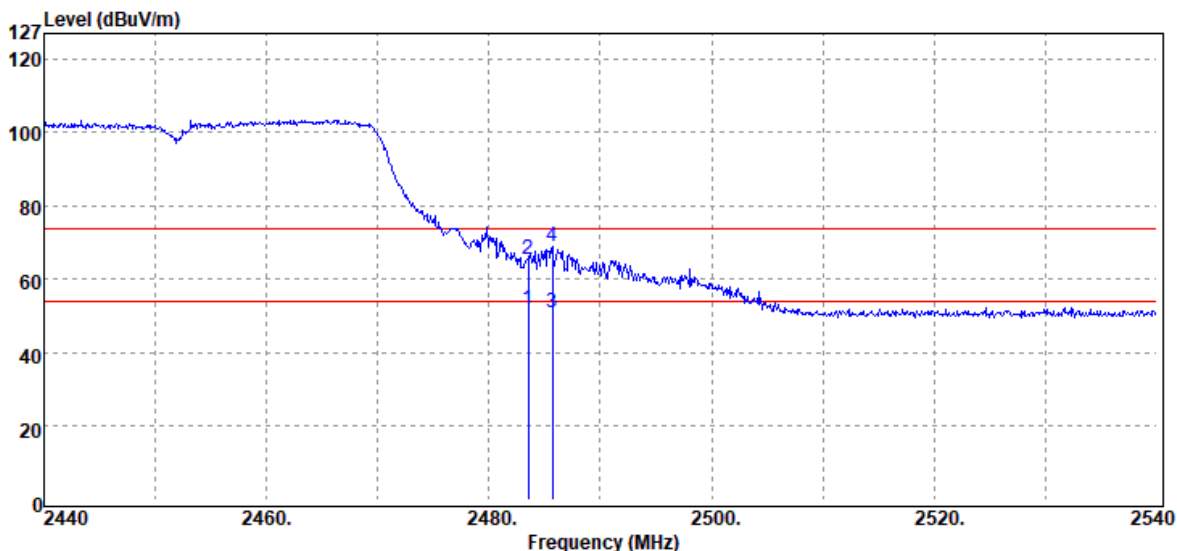
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.10	-0.17	51.93	54.00	-2.07
2483.50	Peak	65.65	-0.17	65.48	74.00	-8.52
2485.70	Average	51.18	-0.18	51.00	54.00	-3.00
2485.70	Peak	68.97	-0.18	68.79	74.00	-5.21

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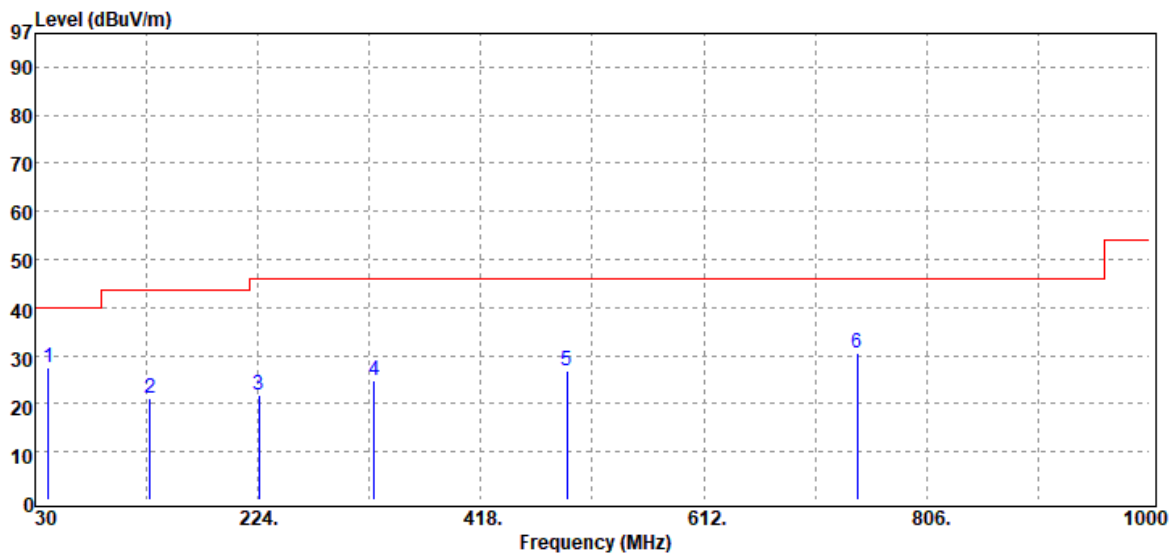
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11.7.2 Below 1GHz Worst-Case Emission:

Dipole Antenna (Part No.: GW.48.A151)

Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
41.64	Peak	35.67	-8.07	27.60	40.00	-12.40
129.91	Peak	30.09	-9.00	21.09	43.50	-22.41
224.97	Peak	30.83	-8.90	21.93	46.00	-24.07
324.88	Peak	30.20	-5.29	24.91	46.00	-21.09
492.69	Peak	29.24	-2.45	26.79	46.00	-19.21
745.86	Peak	28.14	2.46	30.60	46.00	-15.40

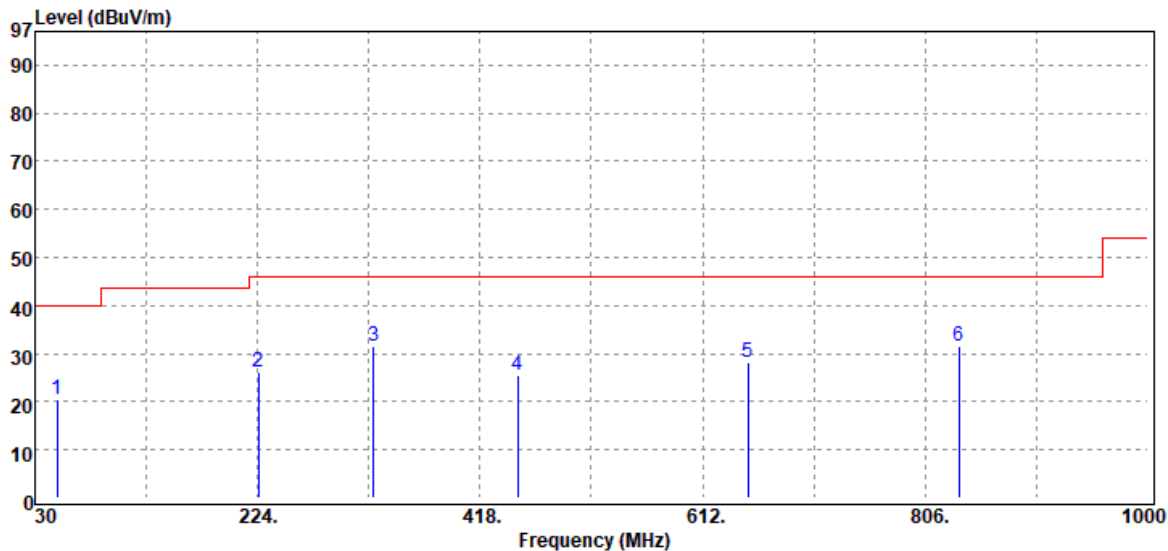
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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
49.40	Peak	28.26	-7.66	20.60	40.00	-19.40
224.97	Peak	35.24	-8.90	26.34	46.00	-19.66
324.88	Peak	36.96	-5.29	31.67	46.00	-14.33
450.98	Peak	28.66	-3.27	25.39	46.00	-20.61
651.77	Peak	27.94	0.20	28.14	46.00	-17.86
835.10	Peak	27.33	4.17	31.50	46.00	-14.50

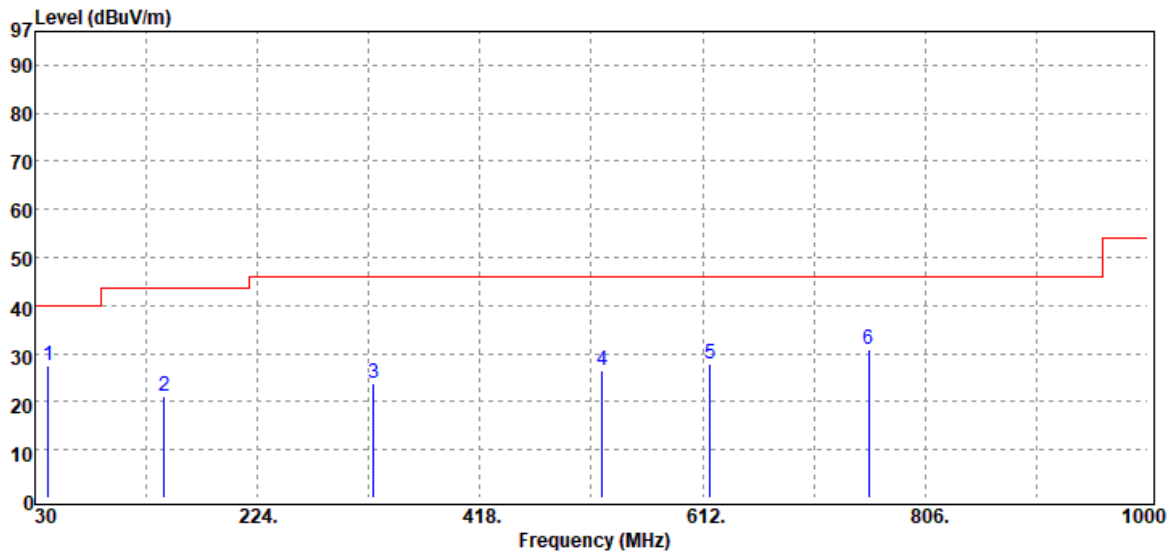
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :VERTICAL
Engineer :Thomas



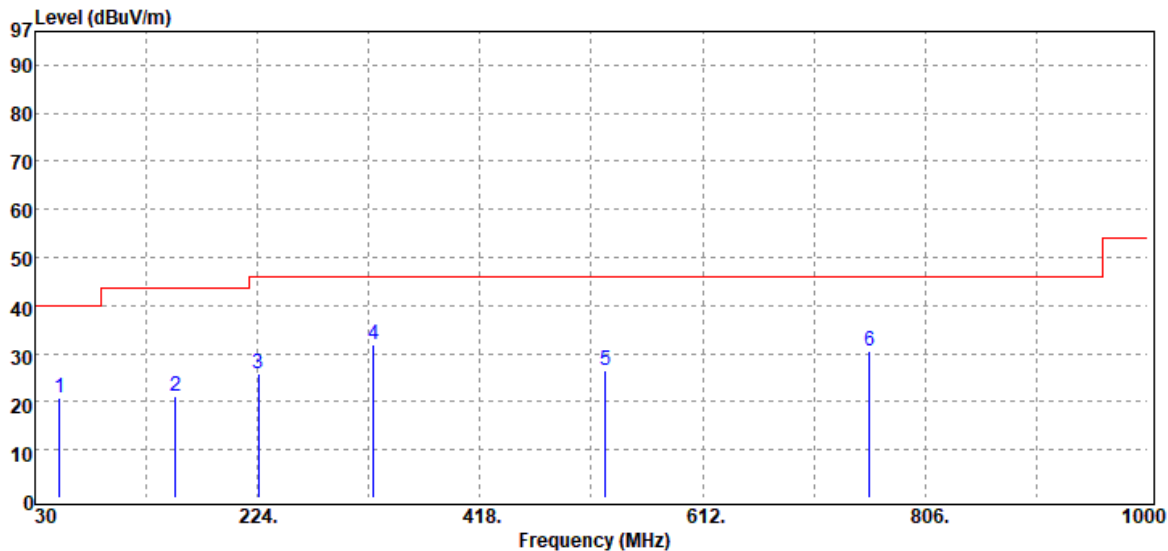
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.64	Peak	35.74	-8.07	27.67	40.00	-12.33
142.52	Peak	28.62	-7.42	21.20	43.50	-22.30
324.88	Peak	29.13	-5.29	23.84	46.00	-22.16
524.70	Peak	28.44	-2.08	26.36	46.00	-19.64
618.79	Peak	28.47	-0.61	27.86	46.00	-18.14
756.53	Peak	27.89	2.90	30.79	46.00	-15.21

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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :HORIZONTAL
Engineer :Thomas


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
51.34	Peak	28.38	-7.63	20.75	40.00	-19.25
152.22	Peak	28.08	-7.00	21.08	43.50	-22.42
224.97	Peak	34.89	-8.90	25.99	46.00	-20.01
324.88	Peak	37.16	-5.29	31.87	46.00	-14.13
527.61	Peak	28.48	-2.09	26.39	46.00	-19.61
757.50	Peak	27.66	2.93	30.59	46.00	-15.41

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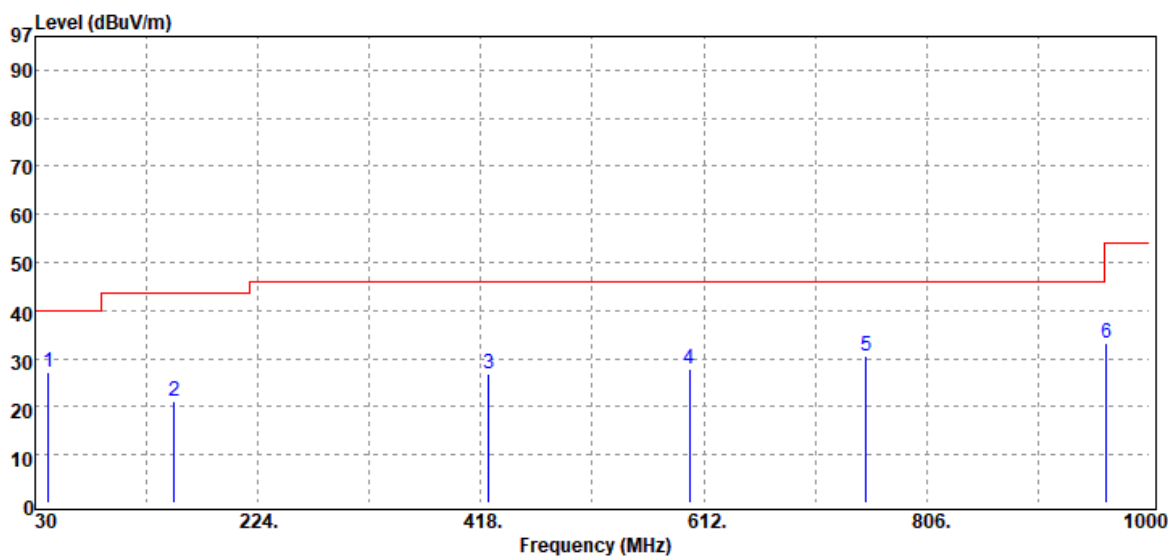
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PCB Antenna (Part No.: ANT-X100P001B24553)

Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :VERTICAL
Engineer :Thomas



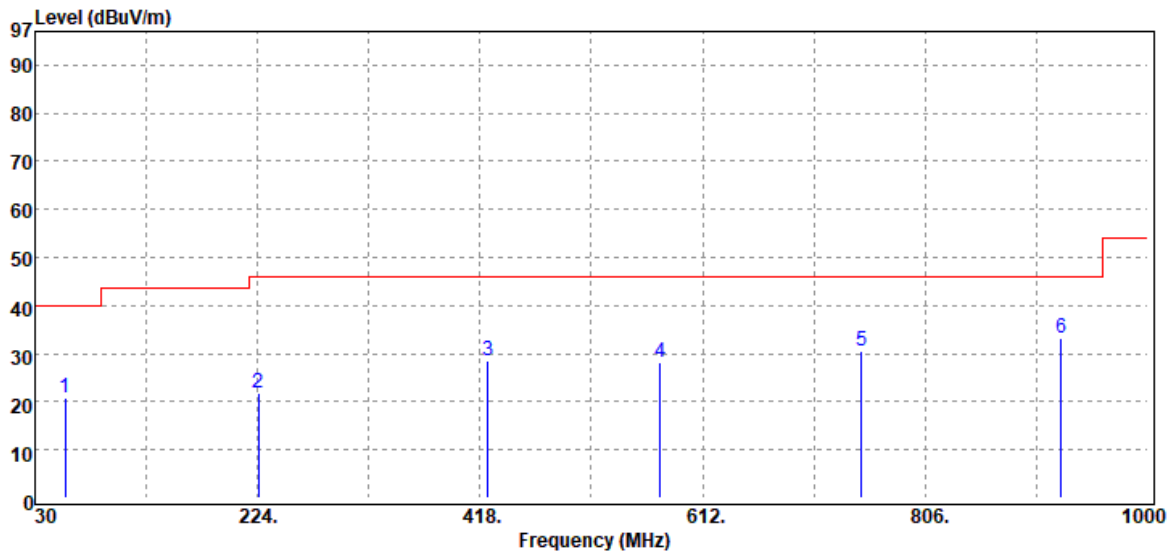
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.64	Peak	35.33	-8.07	27.26	40.00	-12.74
151.25	Peak	28.12	-6.99	21.13	43.50	-22.37
424.79	Peak	30.70	-3.82	26.88	46.00	-19.12
599.39	Peak	28.03	-0.15	27.88	46.00	-18.12
753.62	Peak	27.73	2.82	30.55	46.00	-15.45
962.17	Peak	28.12	5.17	33.29	54.00	-20.71

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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :HORIZONTAL
Engineer :Thomas


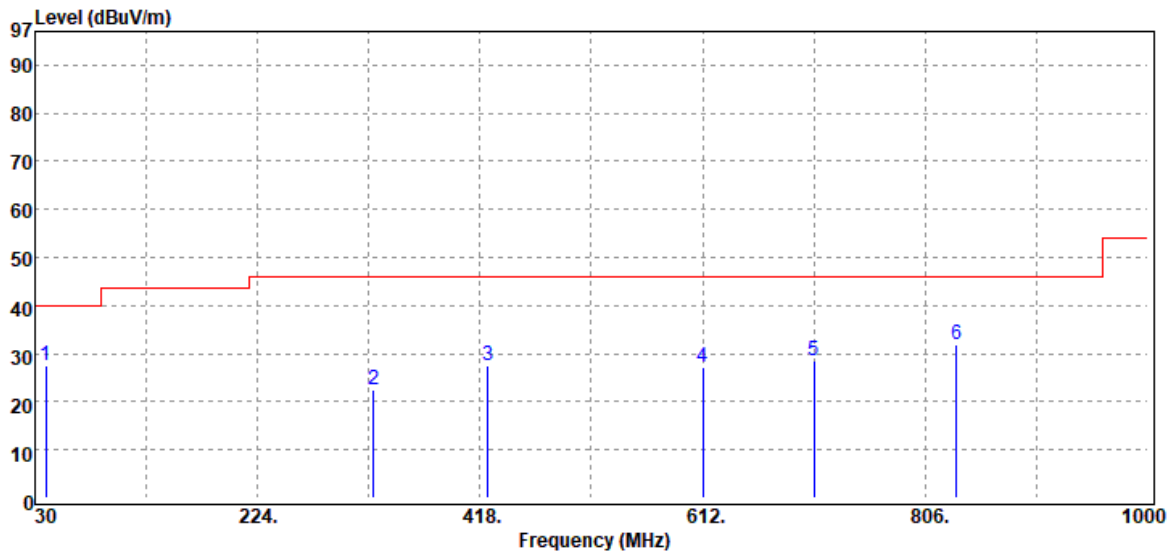
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	28.64	-7.97	20.67	40.00	-19.33
224.97	Peak	30.79	-8.90	21.89	46.00	-24.11
424.79	Peak	32.39	-3.82	28.57	46.00	-17.43
575.14	Peak	29.39	-1.19	28.20	46.00	-17.80
750.71	Peak	27.65	2.78	30.43	46.00	-15.57
924.34	Peak	28.20	5.10	33.30	46.00	-12.70

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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :VERTICAL
Engineer :Thomas


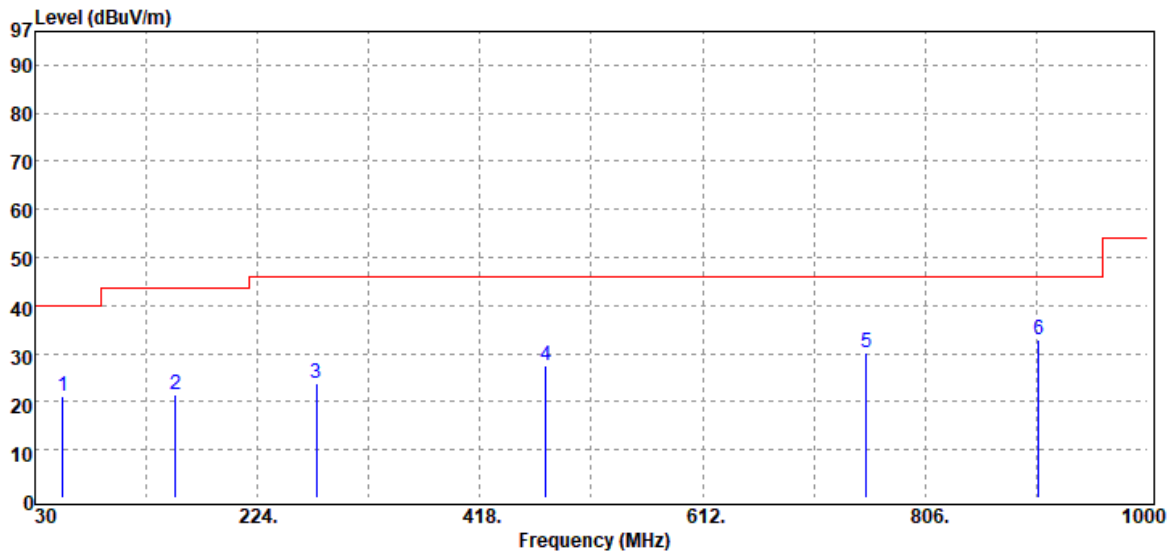
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
39.70	Peak	35.81	-8.31	27.50	40.00	-12.50
324.88	Peak	27.80	-5.29	22.51	46.00	-23.49
424.79	Peak	31.19	-3.82	27.37	46.00	-18.63
612.00	Peak	27.64	-0.34	27.30	46.00	-18.70
709.00	Peak	27.90	0.62	28.52	46.00	-17.48
833.16	Peak	27.82	4.10	31.92	46.00	-14.08

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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-02-04
Temp./Humi. :20.2/65
Antenna Pol. :HORIZONTAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
54.25	Peak	28.91	-7.83	21.08	40.00	-18.92
152.22	Peak	28.60	-7.00	21.60	43.50	-21.90
275.41	Peak	30.51	-6.58	23.93	46.00	-22.07
475.23	Peak	30.30	-2.72	27.58	46.00	-18.42
754.59	Peak	27.43	2.84	30.27	46.00	-15.73
904.94	Peak	27.36	5.38	32.74	46.00	-13.26

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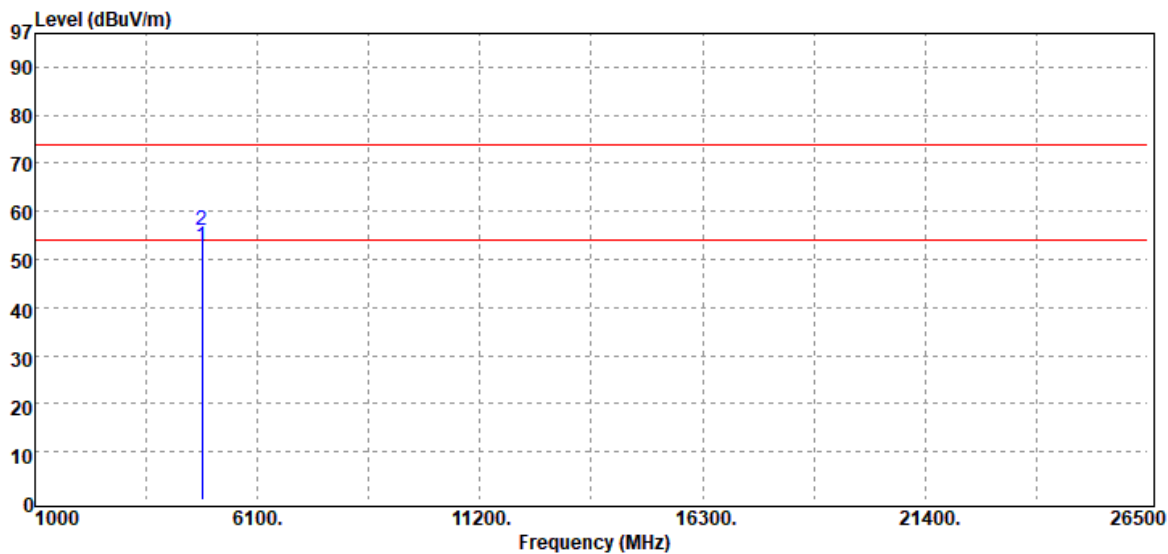
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11.7.3 Above 1GHz Emission:

Dipole Antenna (Part No.: GW.48.A151)

Report Number :ER/2019/B0064
 Operation Mode :802.11b
 Test Channel :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-18
 Temp./Humi. :21.1/62
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	46.19	6.53	52.72	54.00	-1.28
4824.00	Peak	49.39	6.53	55.92	74.00	-18.08

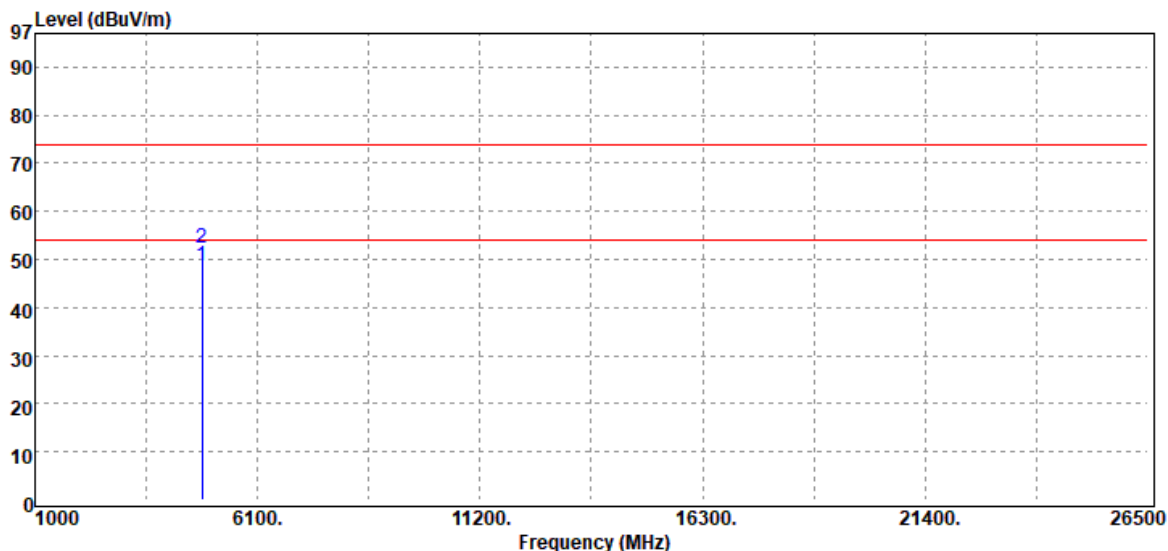
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	41.99	6.53	48.52	54.00	-5.48
4824.00	Peak	45.99	6.53	52.52	74.00	-21.48

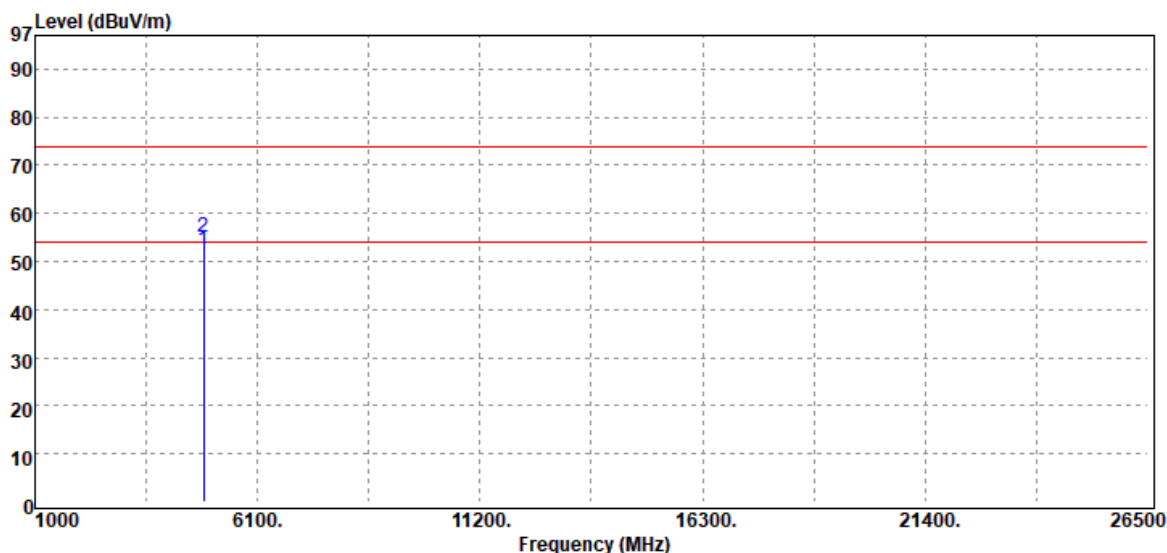
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	45.74	6.69	52.43	54.00	-1.57
4874.00	Peak	48.44	6.69	55.13	74.00	-18.87

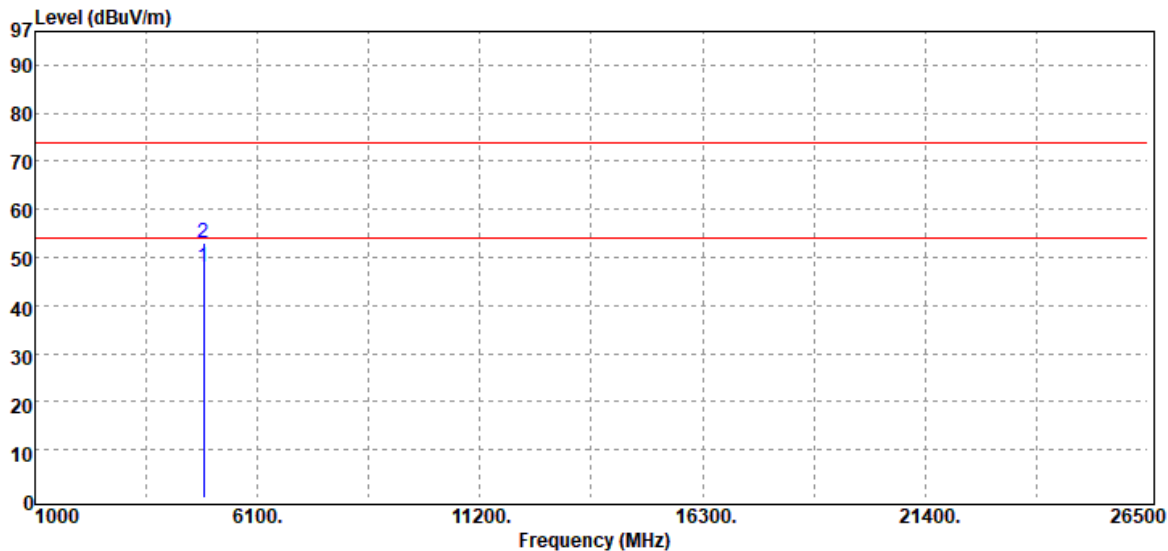
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	41.27	6.69	47.96	54.00	-6.04
4874.00	Peak	46.17	6.69	52.86	74.00	-21.14

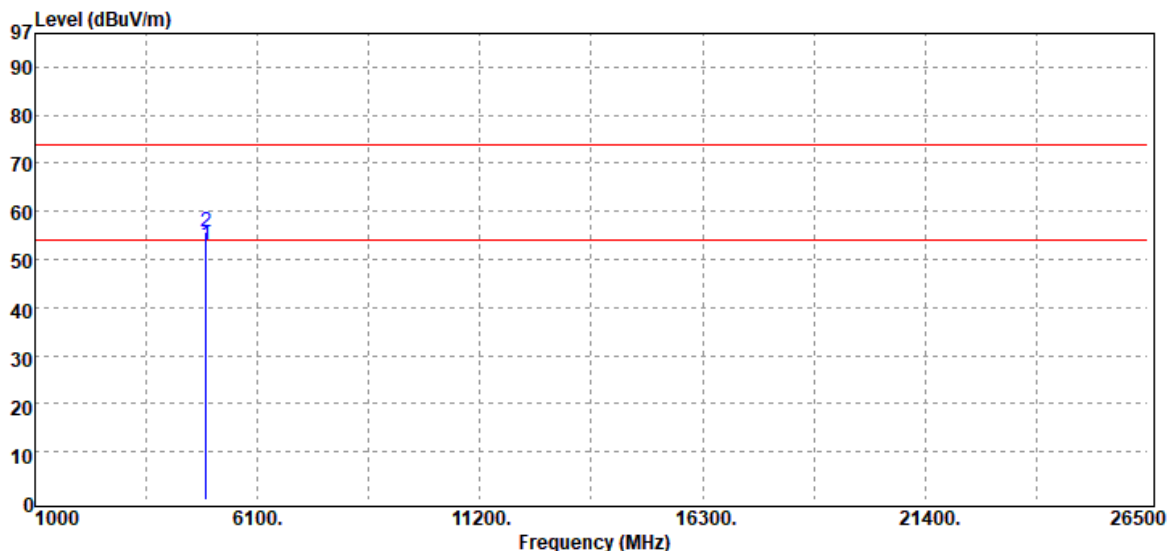
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



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	46.13	6.85	52.98	54.00	-1.02
4924.00	Peak	48.81	6.85	55.66	74.00	-18.34

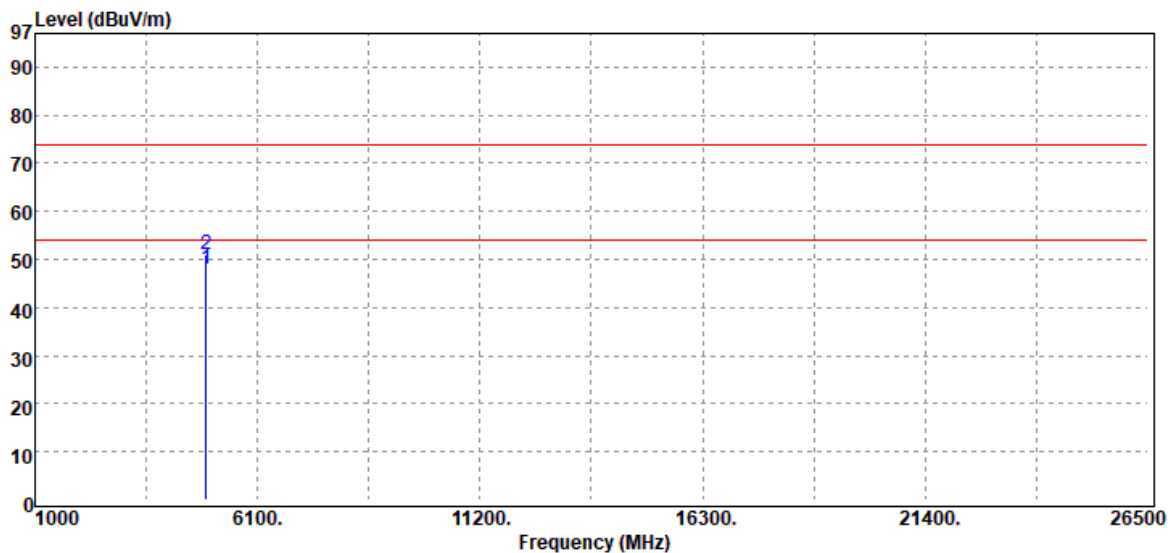
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	41.01	6.85	47.86	54.00	-6.14
4924.00	Peak	44.32	6.85	51.17	74.00	-22.83

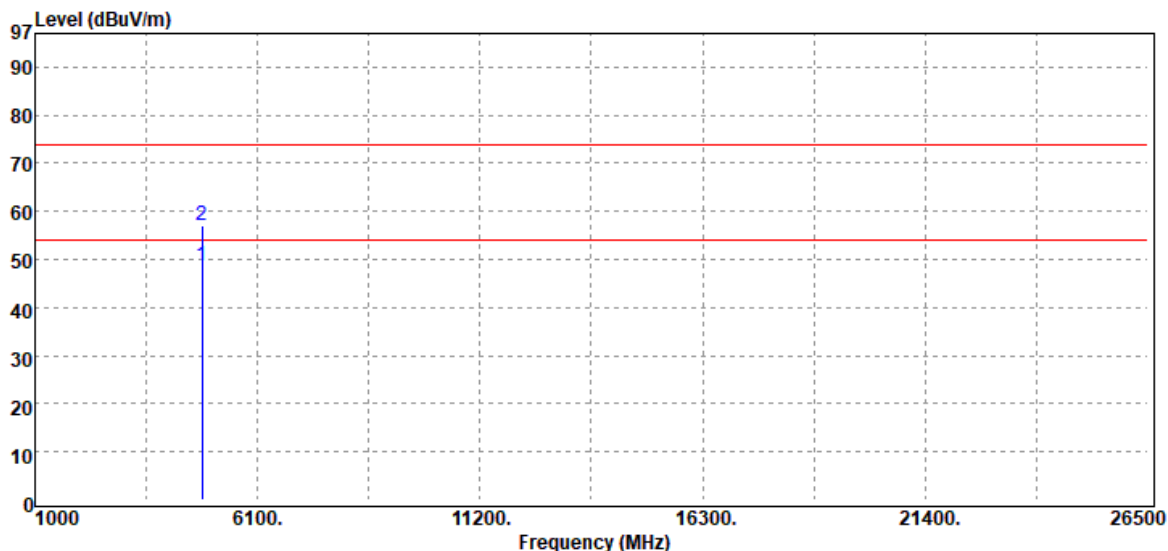
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	41.99	6.53	48.52	54.00	-5.48
4824.00	Peak	50.43	6.53	56.96	74.00	-17.04

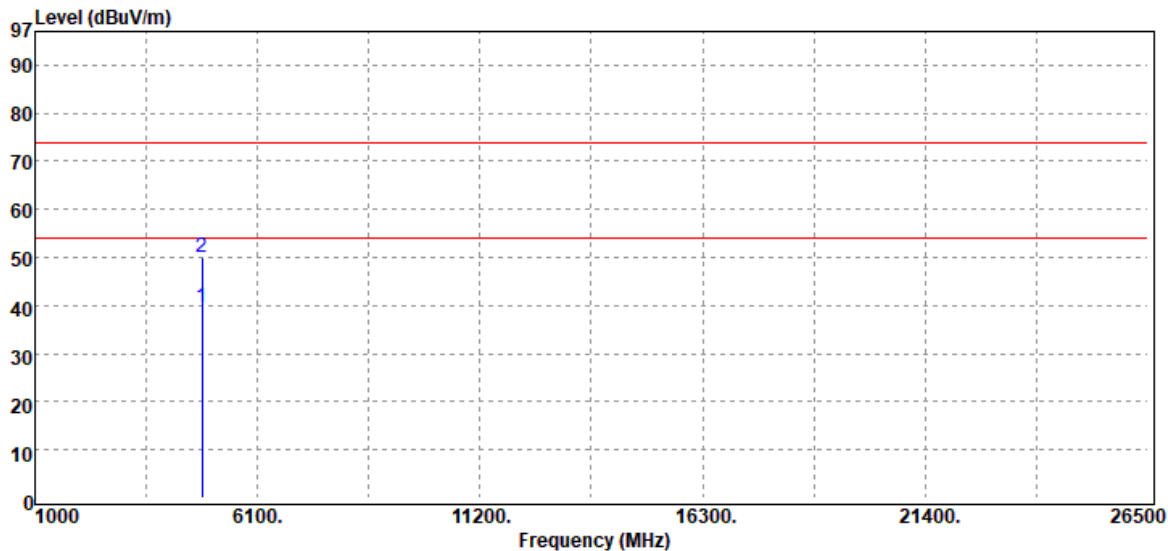
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	32.99	6.53	39.52	54.00	-14.48
4824.00	Peak	43.37	6.53	49.90	74.00	-24.10

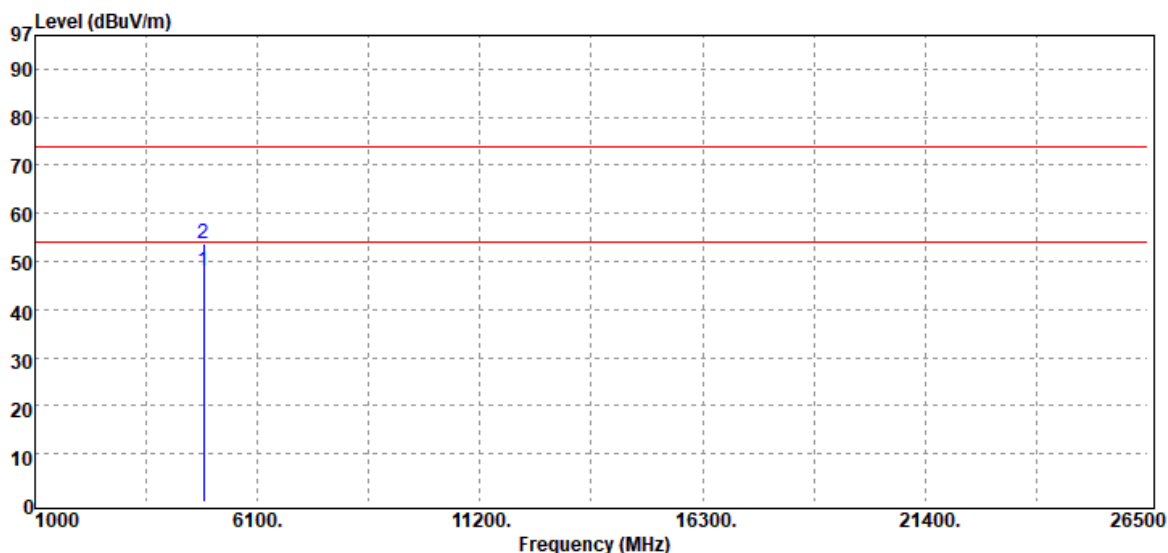
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



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
4874.00	Average	41.21	6.69	47.90	54.00	-6.10
4874.00	Peak	46.95	6.69	53.64	74.00	-20.36

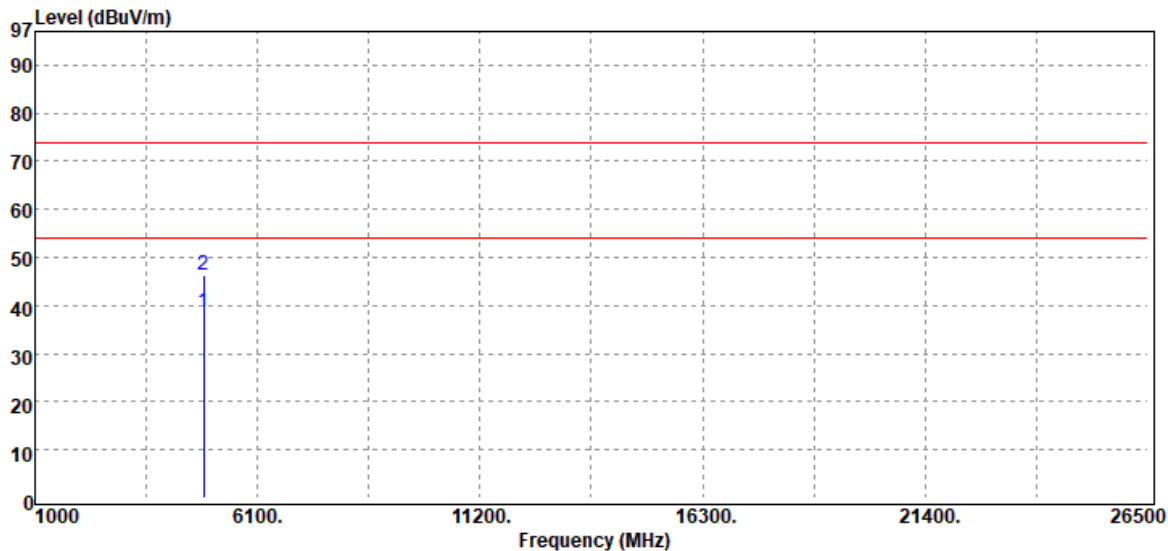
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	31.99	6.69	38.68	54.00	-15.32
4874.00	Peak	39.74	6.69	46.43	74.00	-27.57

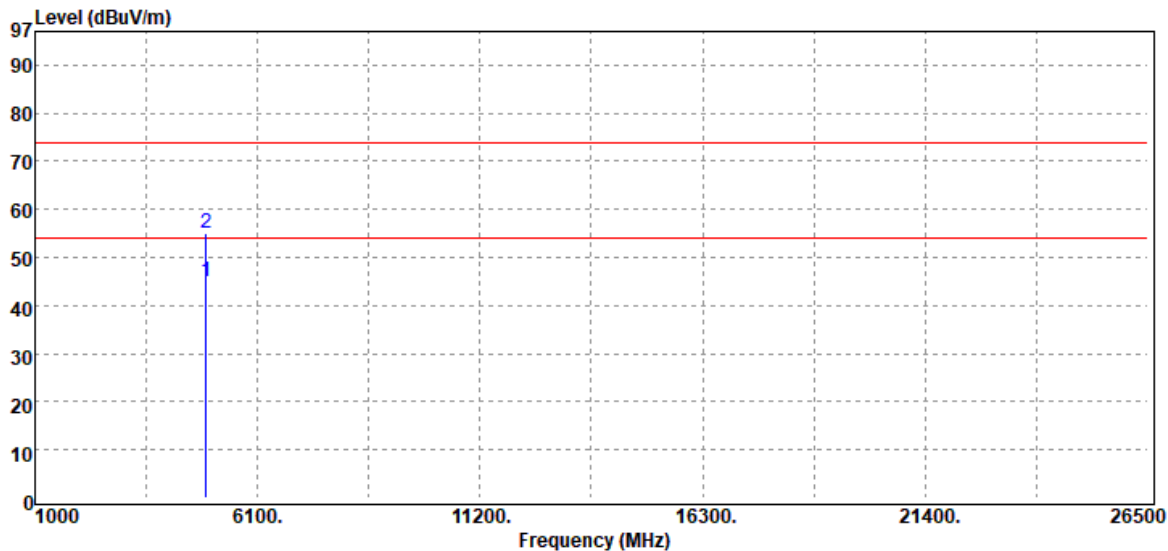
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	38.02	6.85	44.87	54.00	-9.13
4924.00	Peak	48.13	6.85	54.98	74.00	-19.02

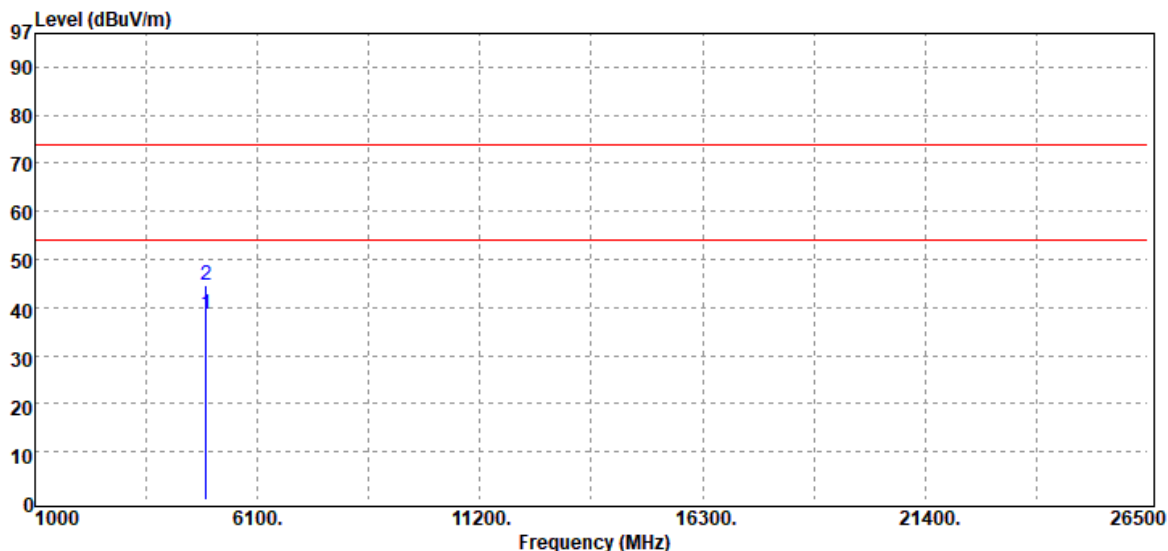
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	31.77	6.85	38.62	54.00	-15.38
4924.00	Peak	37.87	6.85	44.72	74.00	-29.28

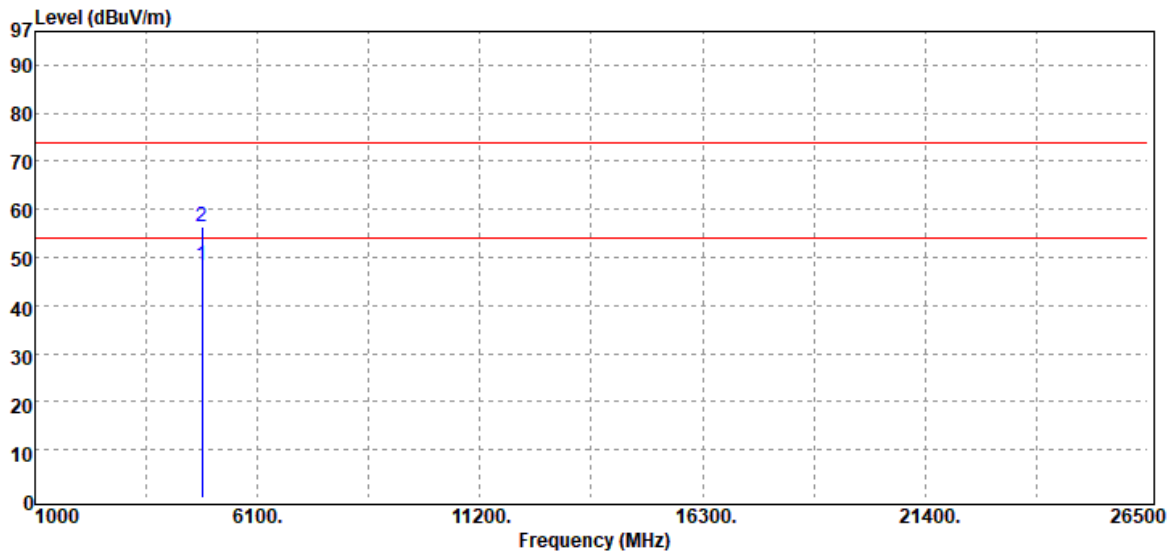
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	41.76	6.53	48.29	54.00	-5.71
4824.00	Peak	49.99	6.53	56.52	74.00	-17.48

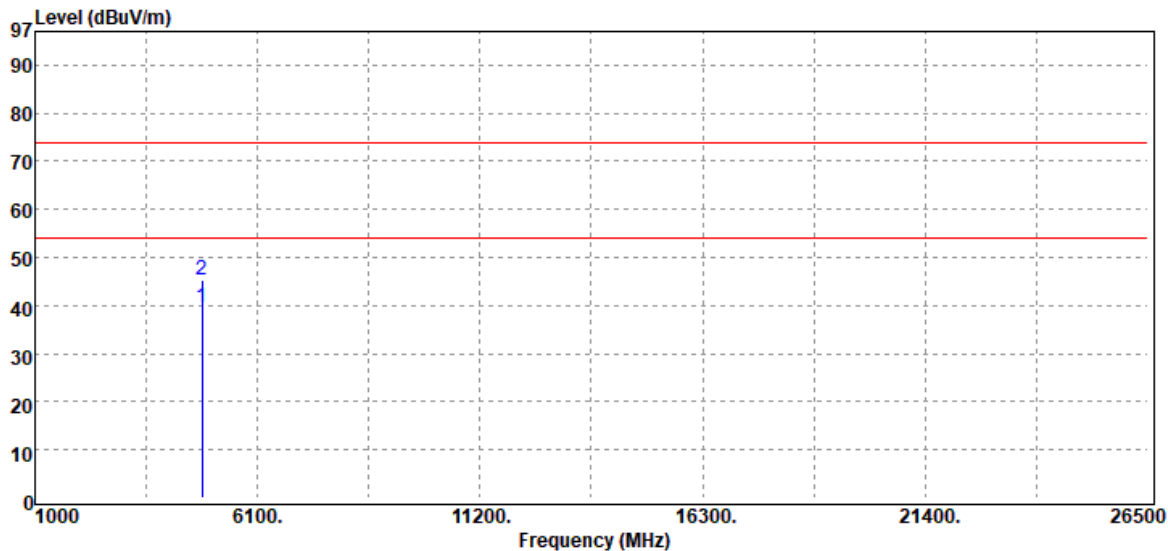
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	33.08	6.53	39.61	54.00	-14.39
4824.00	Peak	38.65	6.53	45.18	74.00	-28.82

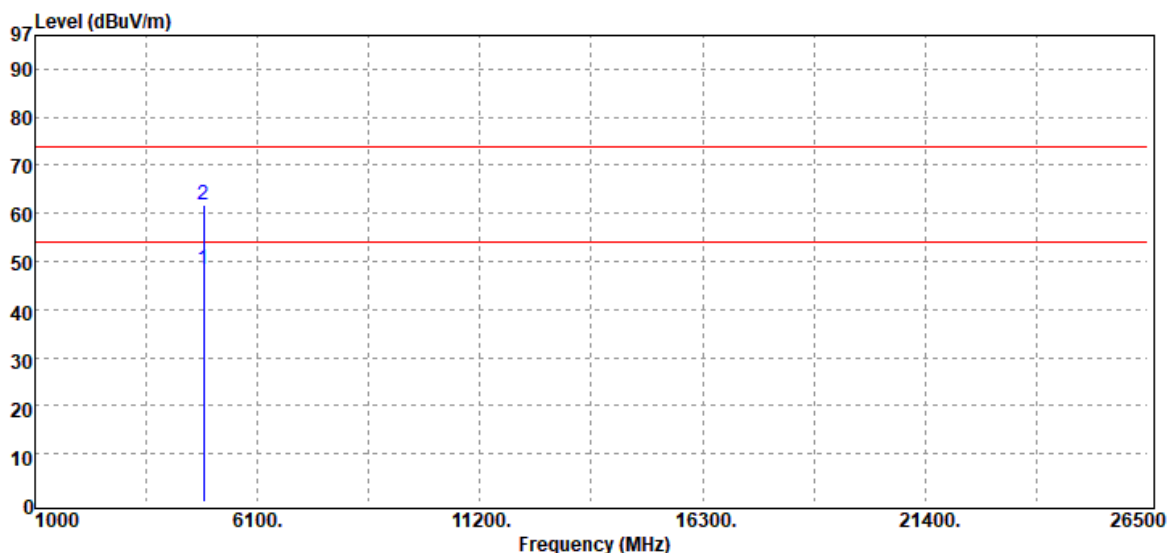
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	41.76	6.69	48.45	54.00	-5.55
4874.00	Peak	55.01	6.69	61.70	74.00	-12.30

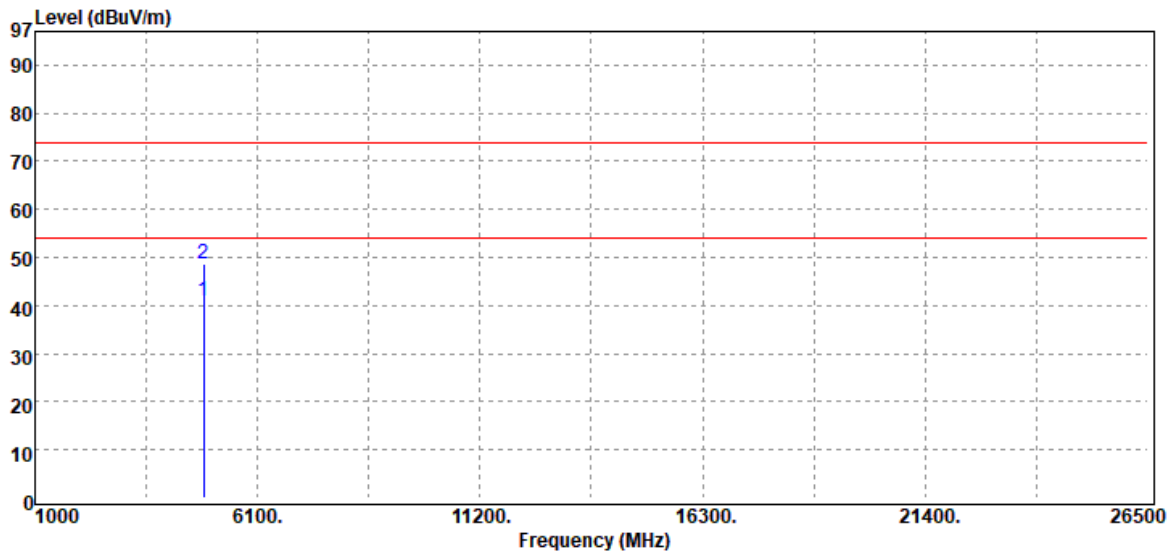
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	34.26	6.69	40.95	54.00	-13.05
4874.00	Peak	42.12	6.69	48.81	74.00	-25.19

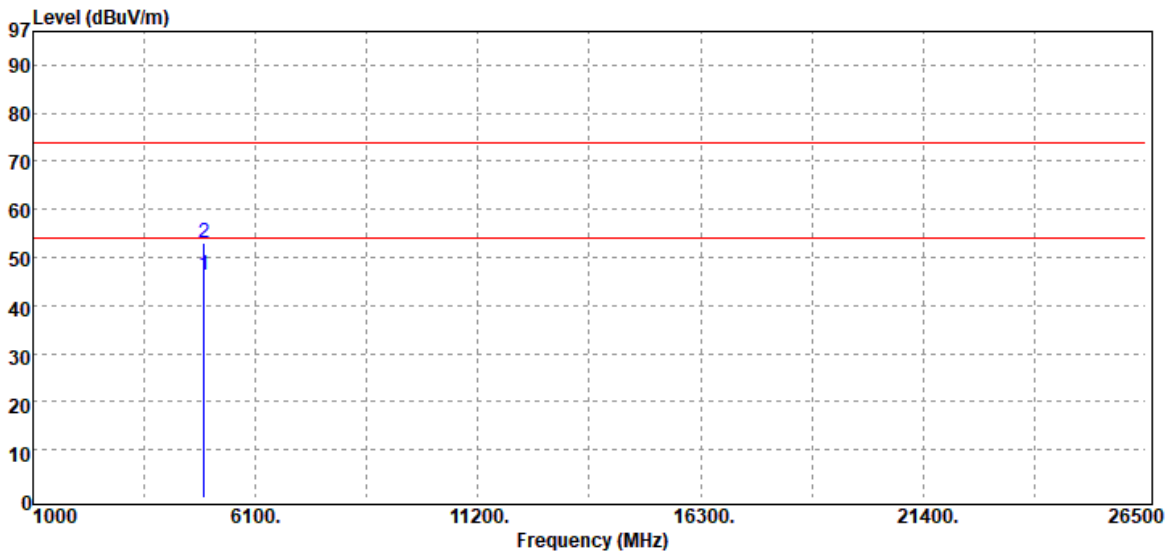
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	39.57	6.85	46.42	54.00	-7.58
4924.00	Peak	46.19	6.85	53.04	74.00	-20.96

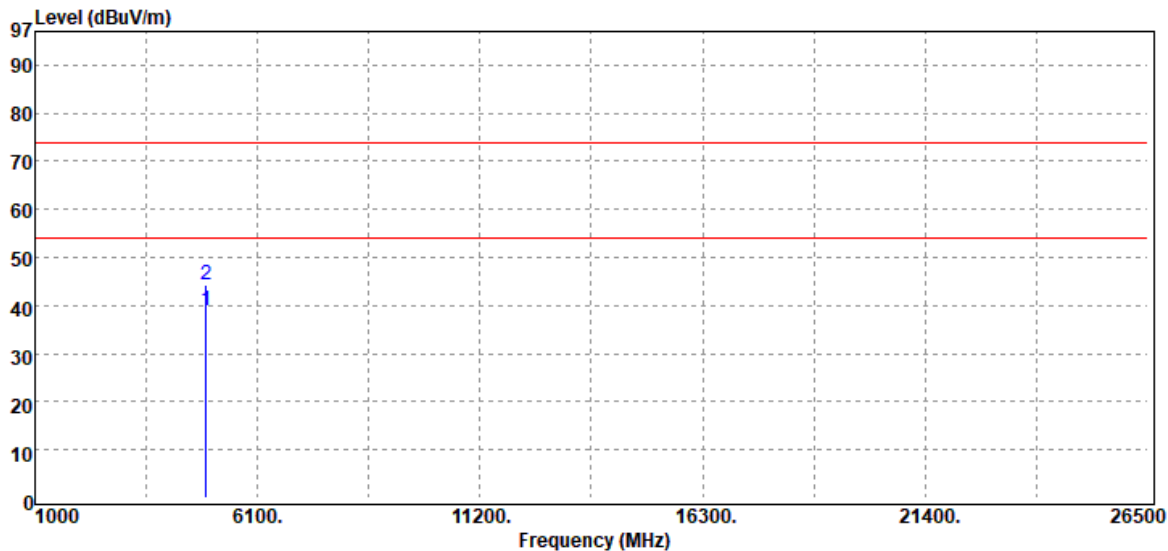
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	32.19	6.85	39.04	54.00	-14.96
4924.00	Peak	37.33	6.85	44.18	74.00	-29.82

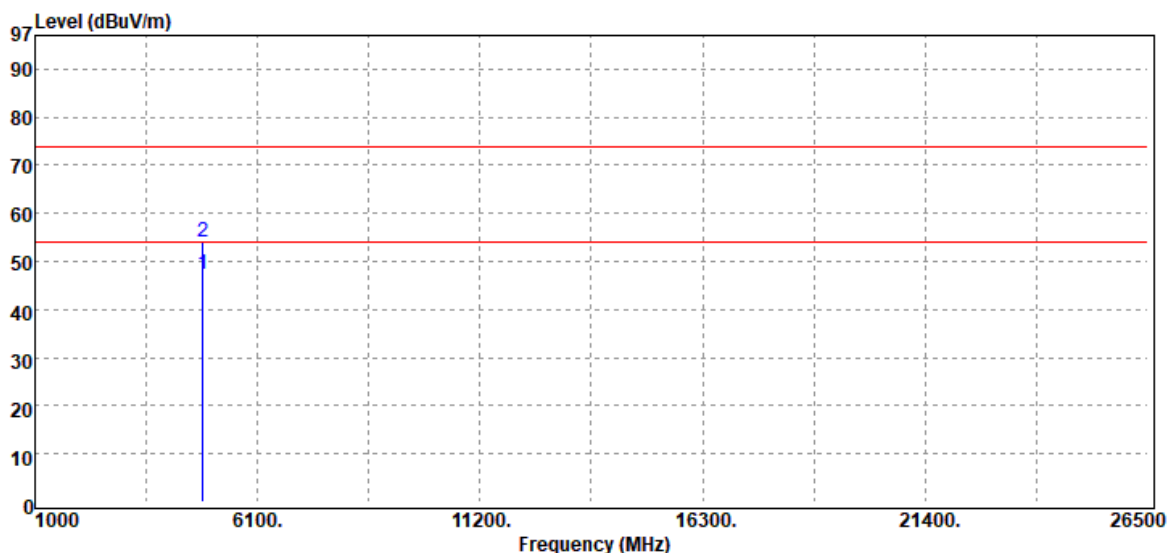
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	Average	40.82	6.60	47.42	54.00	-6.58
4844.00	Peak	47.28	6.60	53.88	74.00	-20.12

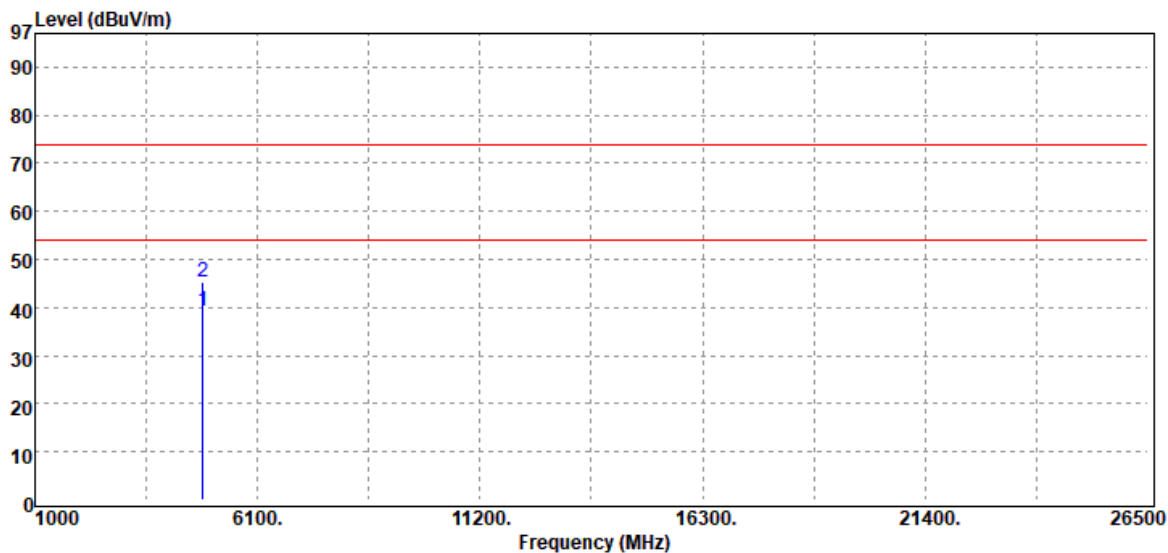
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	Average	32.51	6.60	39.11	54.00	-14.89
4844.00	Peak	38.59	6.60	45.19	74.00	-28.81

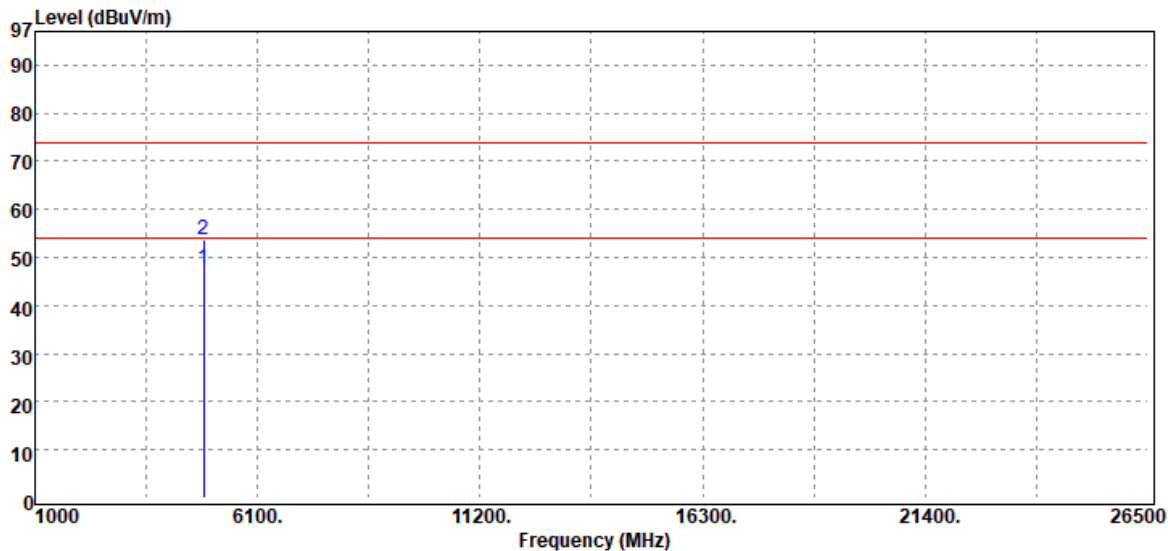
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	41.08	6.69	47.77	54.00	-6.23
4874.00	Peak	46.93	6.69	53.62	74.00	-20.38

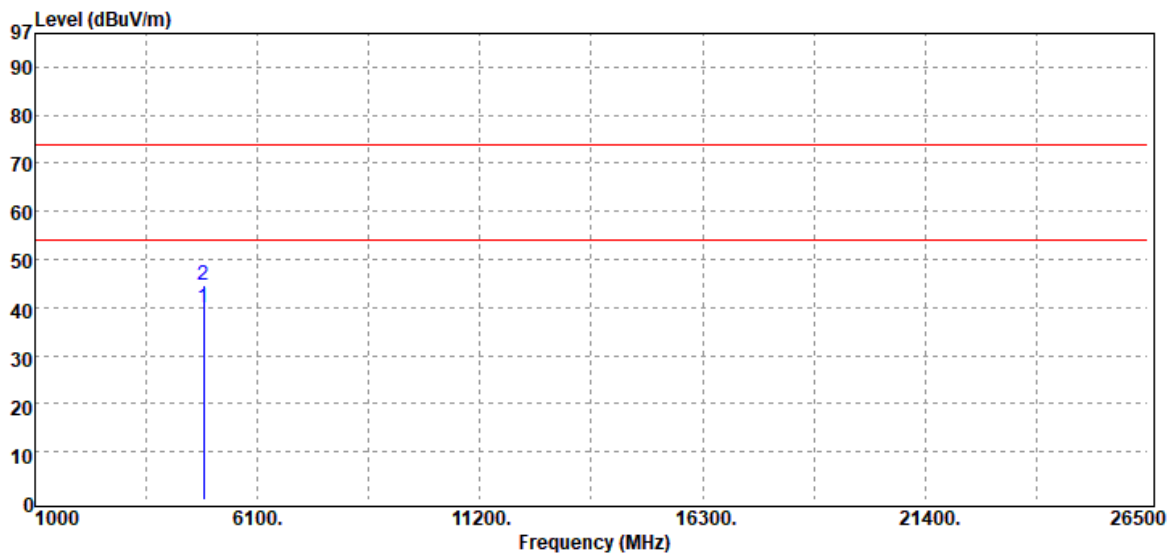
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	33.18	6.69	39.87	54.00	-14.13
4874.00	Peak	38.09	6.69	44.78	74.00	-29.22

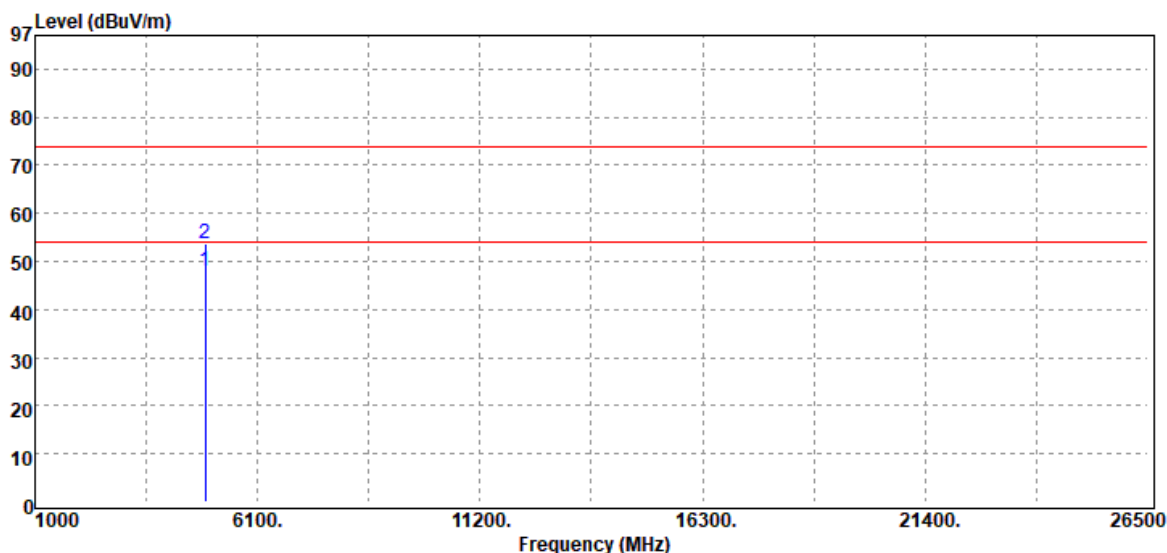
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	41.28	6.78	48.06	54.00	-5.94
4904.00	Peak	46.77	6.78	53.55	74.00	-20.45

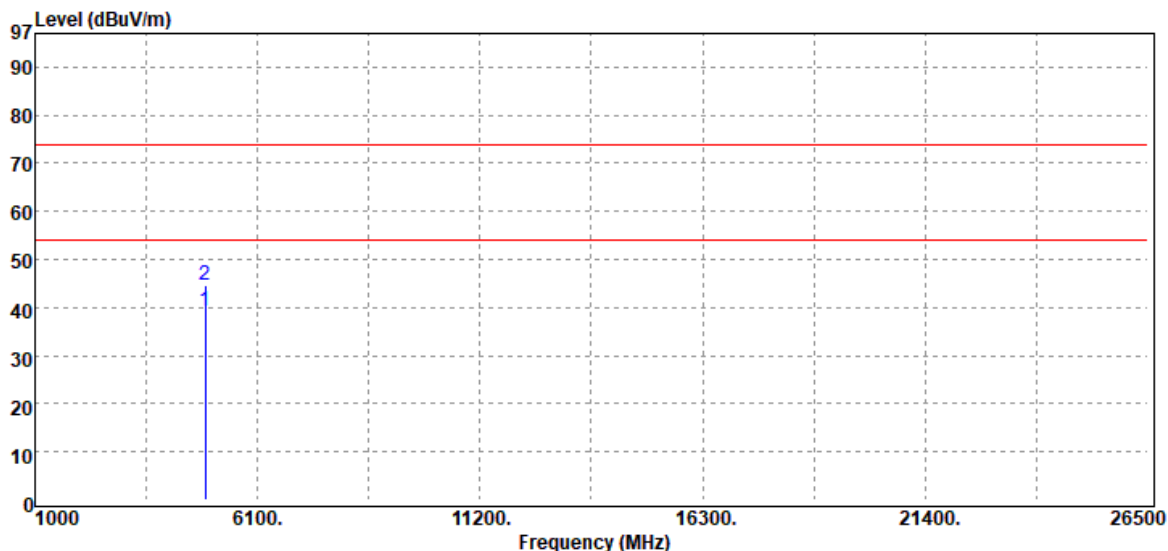
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-18
Temp./Humi. :21.1/62
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	32.43	6.78	39.21	54.00	-14.79
4904.00	Peak	37.86	6.78	44.64	74.00	-29.36

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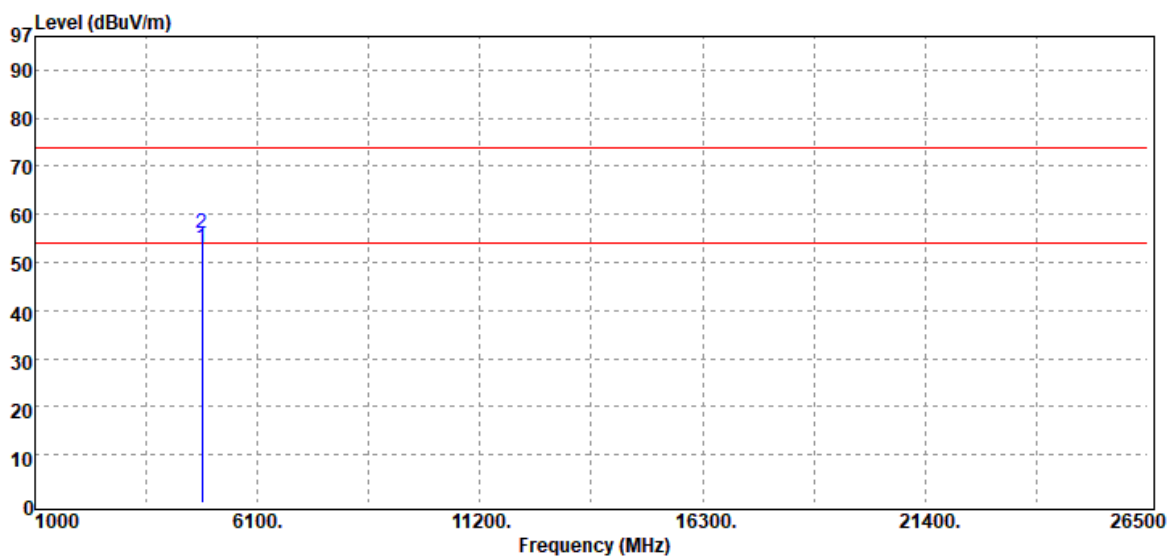
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PCB Antenna (Part No.: ANT-X100P001B24553)

Report Number :ER/2019/B0064
 Operation Mode :802.11b
 Test Channel :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-24
 Temp./Humi. :23/67
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	46.41	6.53	52.94	54.00	-1.06
4824.00	Peak	49.42	6.53	55.95	74.00	-18.05

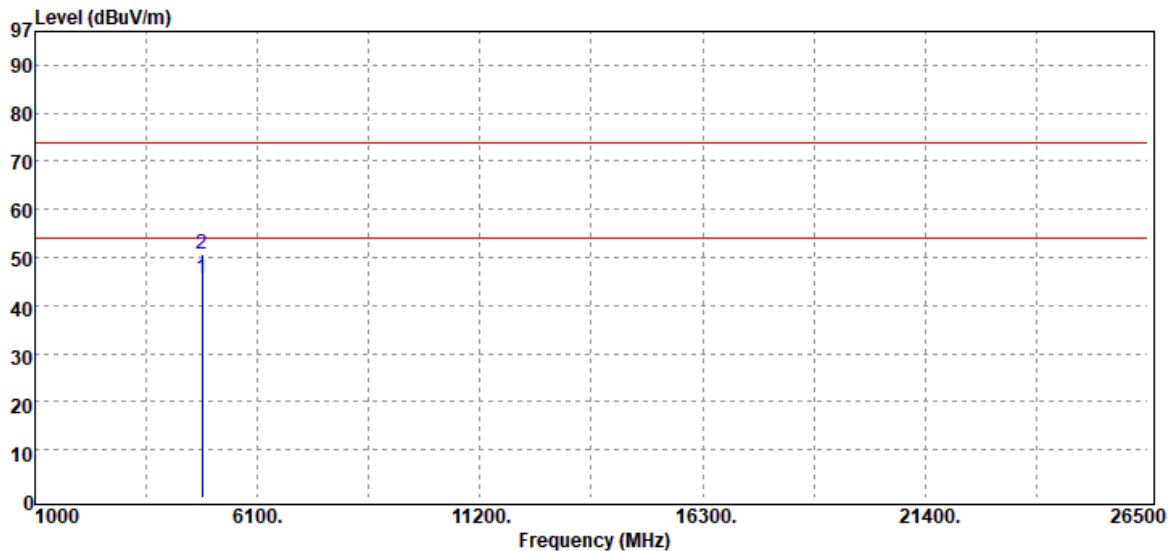
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	39.24	6.53	45.77	54.00	-8.23
4824.00	Peak	43.99	6.53	50.52	74.00	-23.48

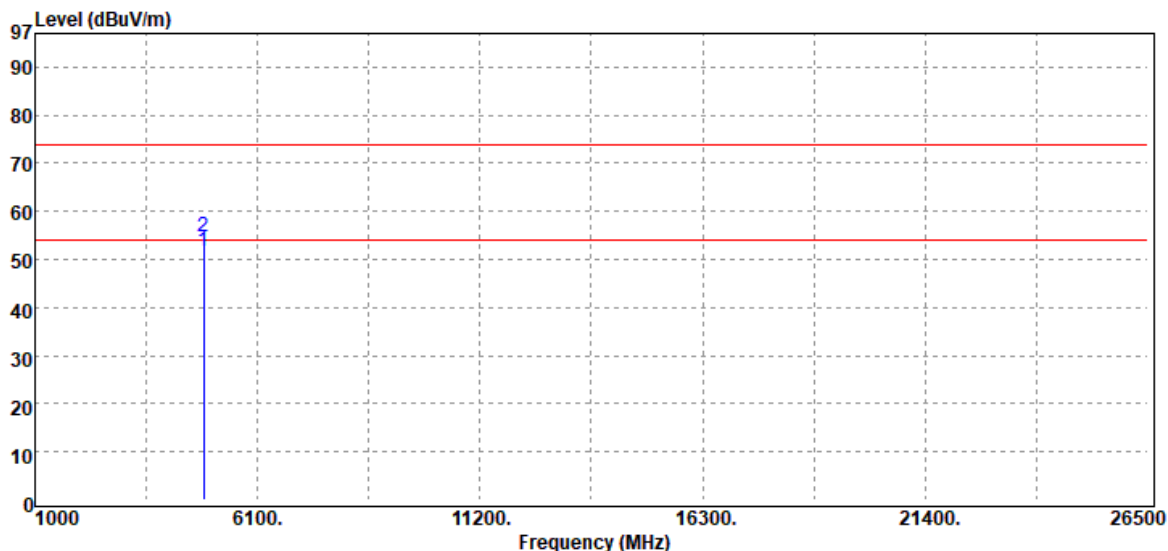
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



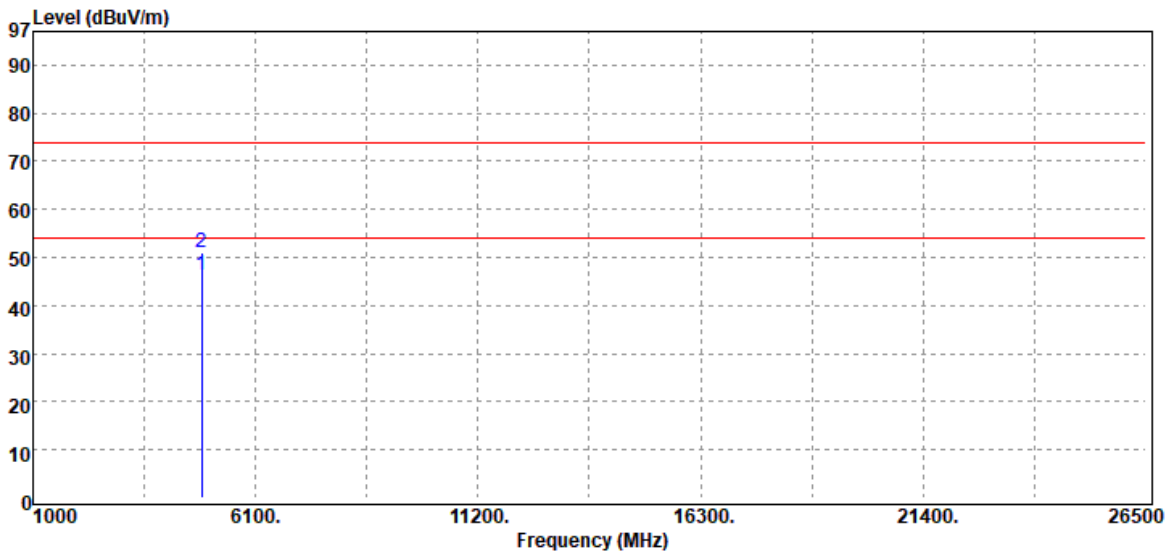
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	45.09	6.69	51.78	54.00	-2.22
4874.00	Peak	48.09	6.69	54.78	74.00	-19.22

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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	39.49	6.69	46.18	54.00	-7.82
4874.00	Peak	44.19	6.69	50.88	74.00	-23.12

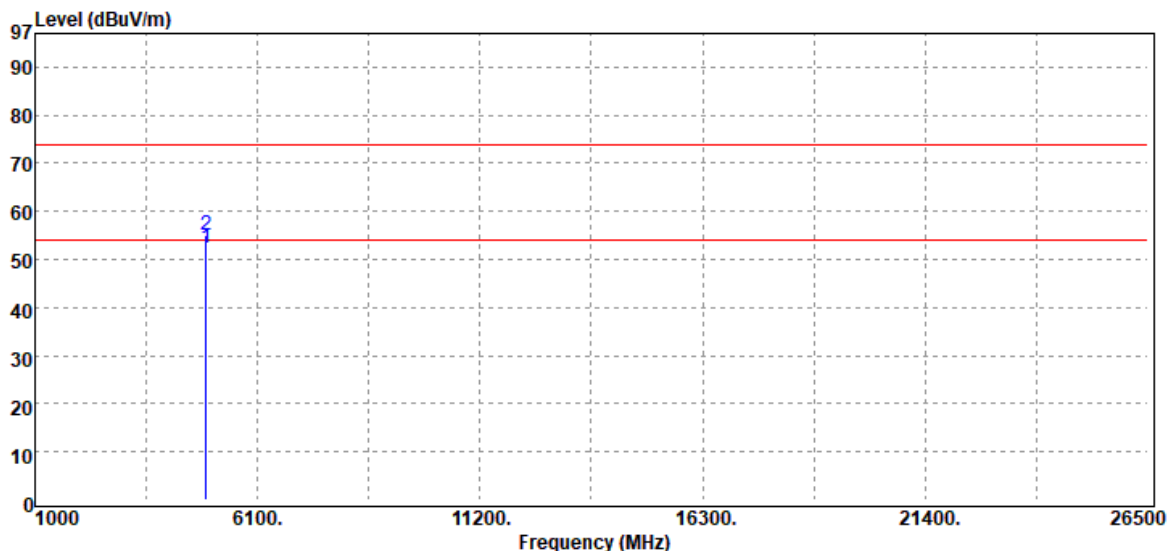
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	45.61	6.85	52.46	54.00	-1.54
4924.00	Peak	48.21	6.85	55.06	74.00	-18.94

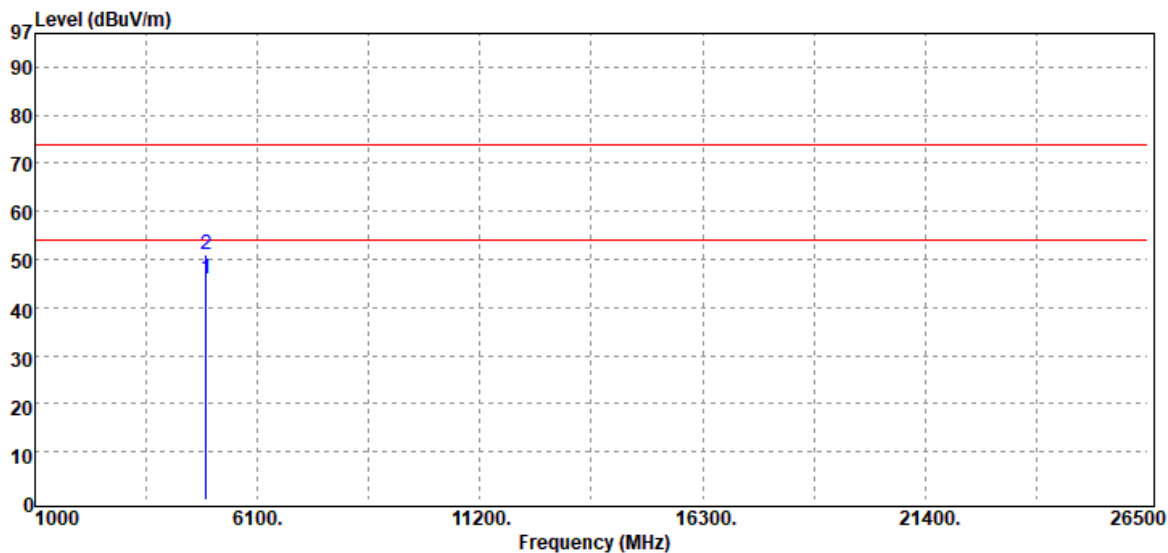
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Report Number :ER/2019/B0064
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	39.11	6.85	45.96	54.00	-8.04
4924.00	Peak	44.18	6.85	51.03	74.00	-22.97

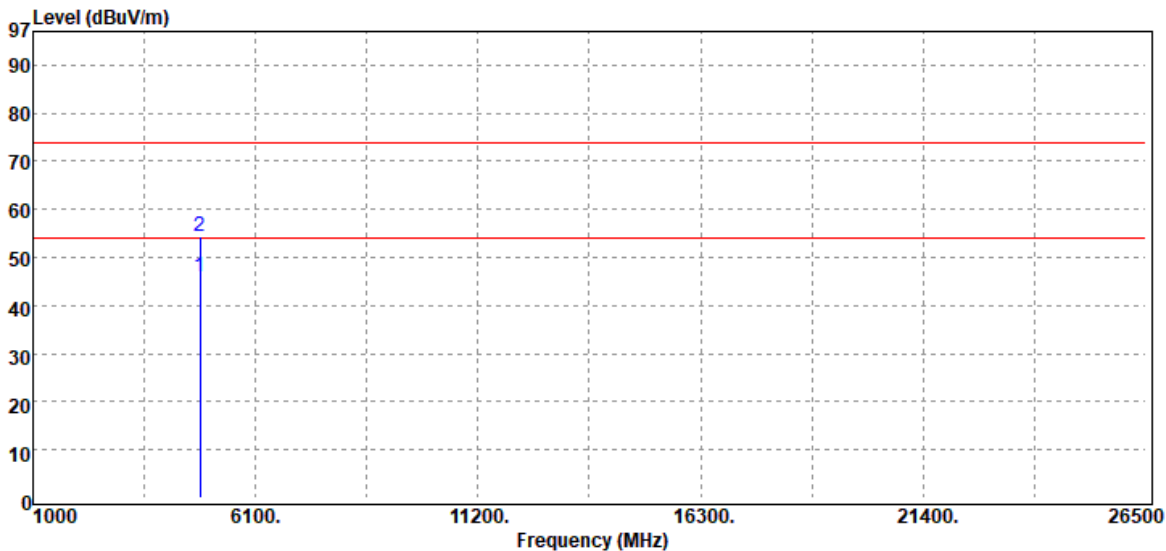
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	39.32	6.53	45.85	54.00	-8.15
4824.00	Peak	47.83	6.53	54.36	74.00	-19.64

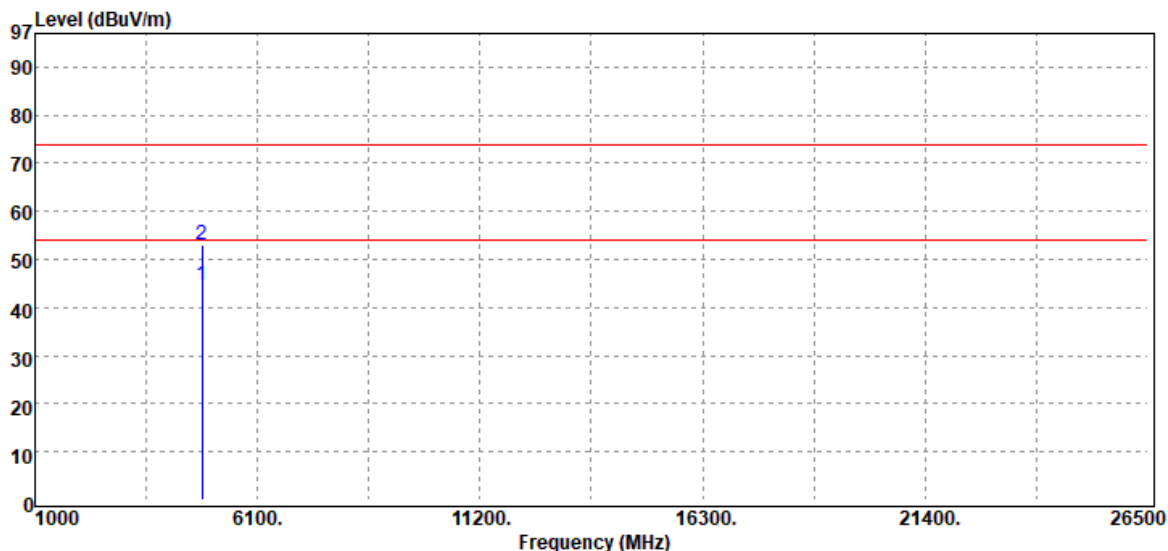
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	37.99	6.53	44.52	54.00	-9.48
4824.00	Peak	46.36	6.53	52.89	74.00	-21.11

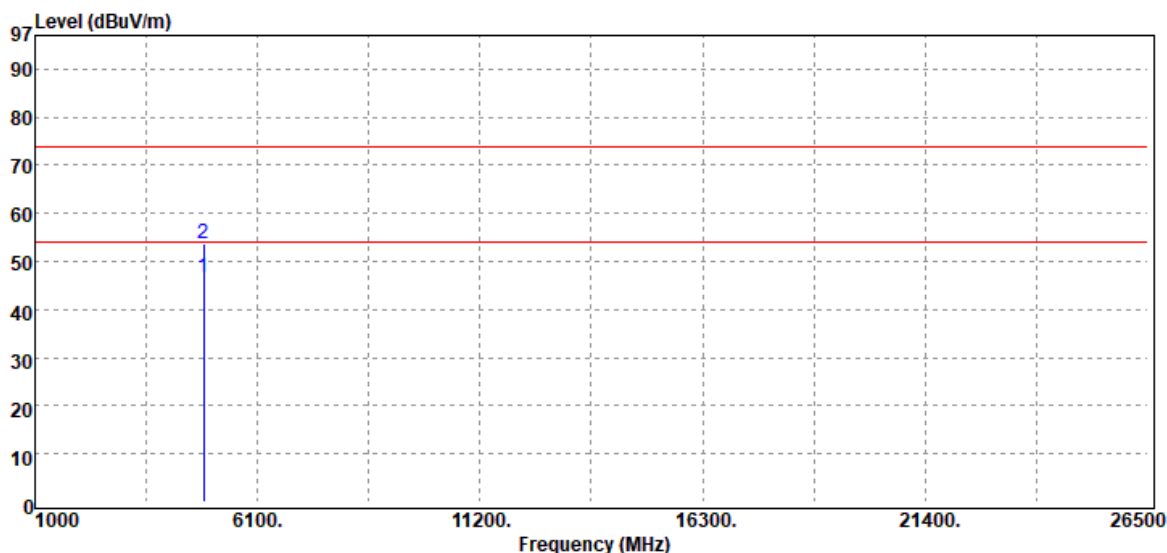
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	40.09	6.69	46.78	54.00	-7.22
4874.00	Peak	47.02	6.69	53.71	74.00	-20.29

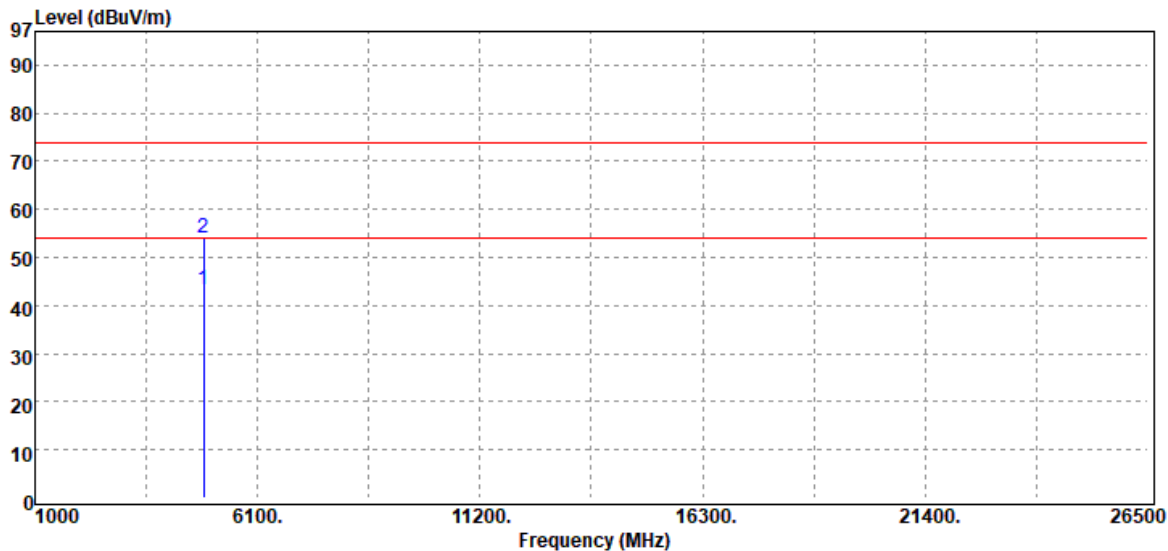
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	36.47	6.69	43.16	54.00	-10.84
4874.00	Peak	47.24	6.69	53.93	74.00	-20.07

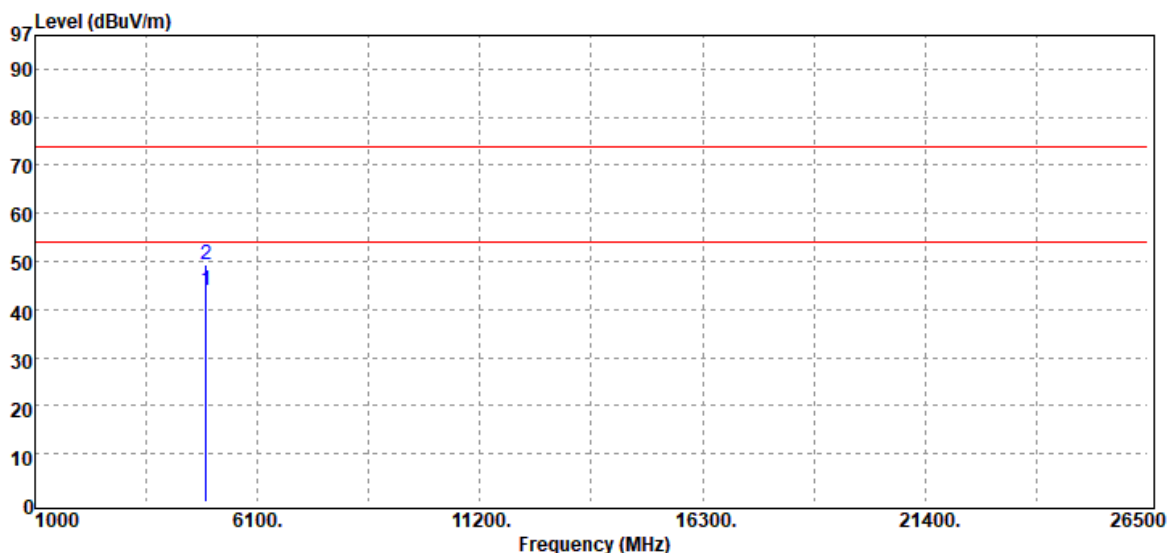
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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH high
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



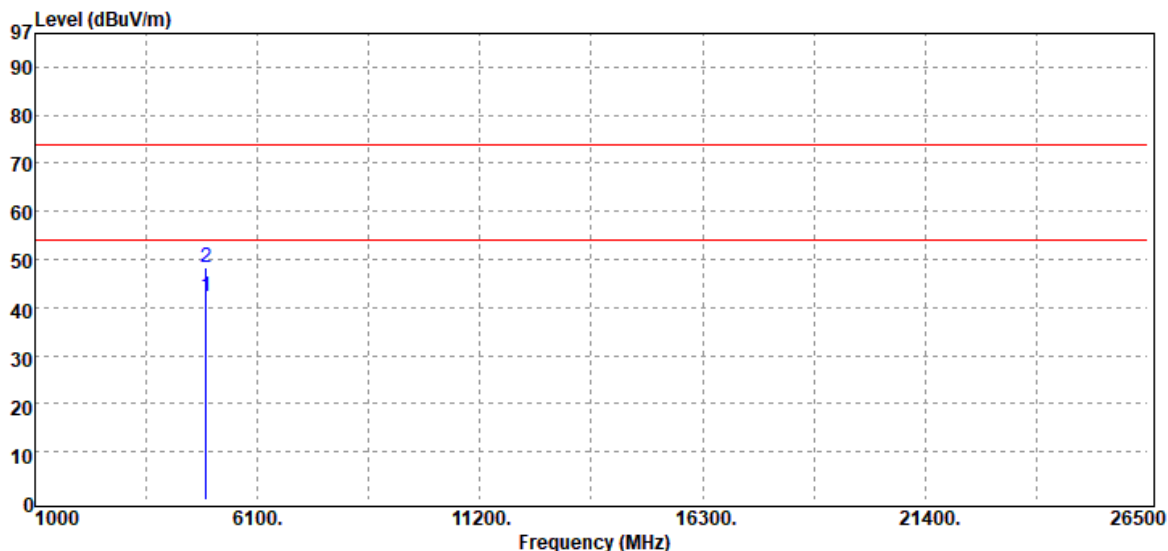
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	37.04	6.85	43.89	54.00	-10.11
4924.00	Peak	42.63	6.85	49.48	74.00	-24.52

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Report Number :ER/2019/B0064
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH high
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	35.42	6.85	42.27	54.00	-11.73
4924.00	Peak	41.63	6.85	48.48	74.00	-25.52

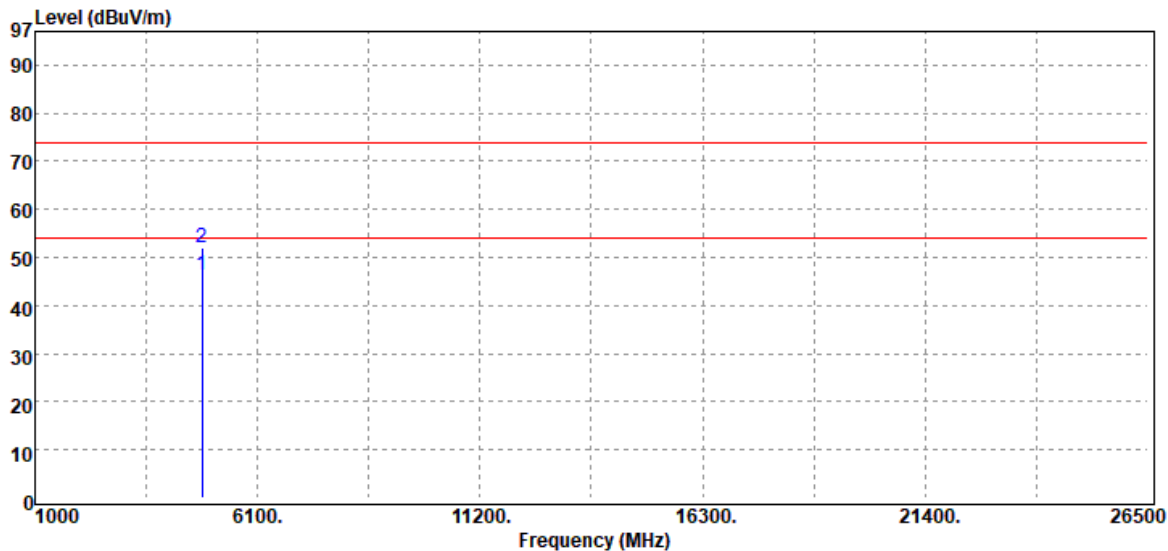
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	39.66	6.53	46.19	54.00	-7.81
4824.00	Peak	45.64	6.53	52.17	74.00	-21.83

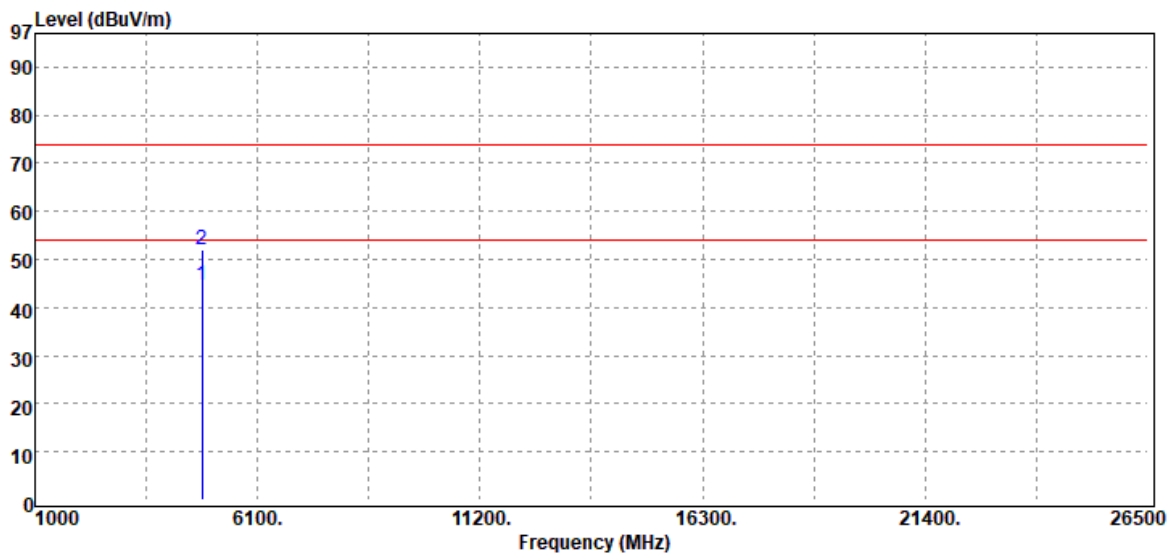
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	38.21	6.53	44.74	54.00	-9.26
4824.00	Peak	45.63	6.53	52.16	74.00	-21.84

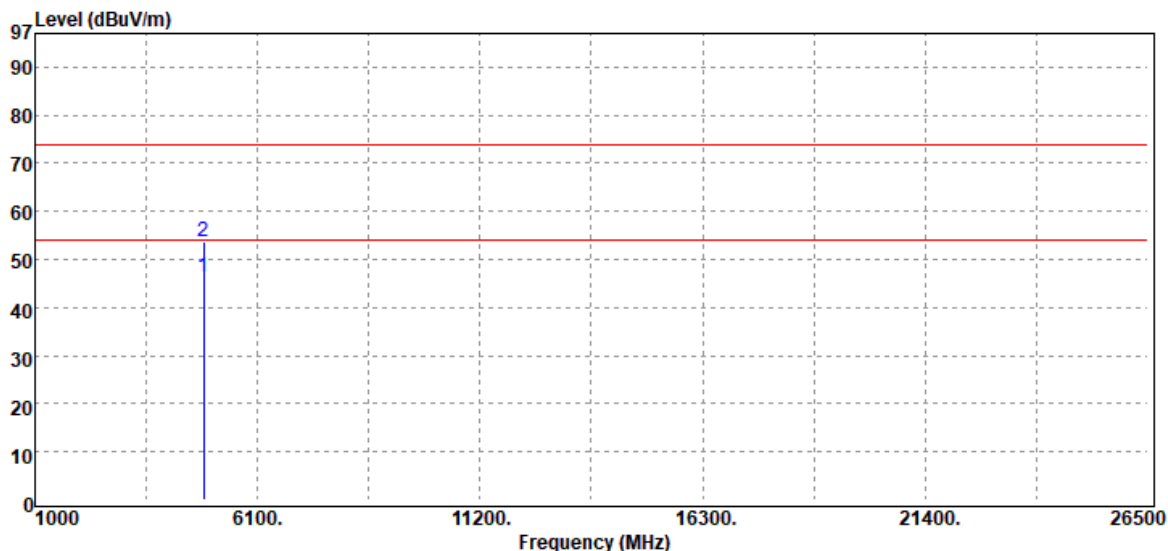
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



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
4874.00	Average	39.54	6.69	46.23	54.00	-7.77
4874.00	Peak	47.07	6.69	53.76	74.00	-20.24

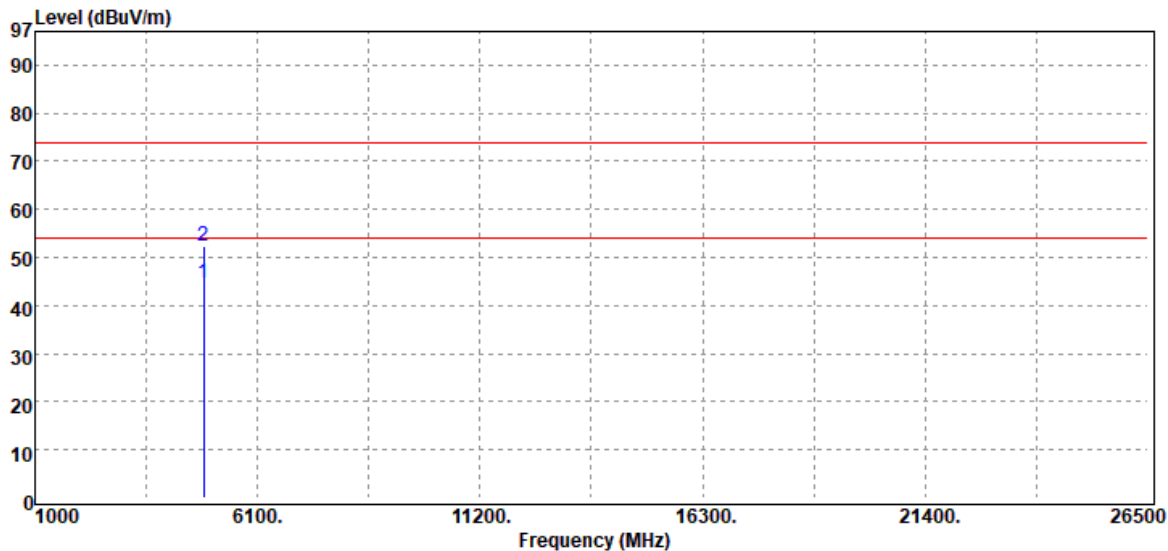
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	37.88	6.69	44.57	54.00	-9.43
4874.00	Peak	45.50	6.69	52.19	74.00	-21.81

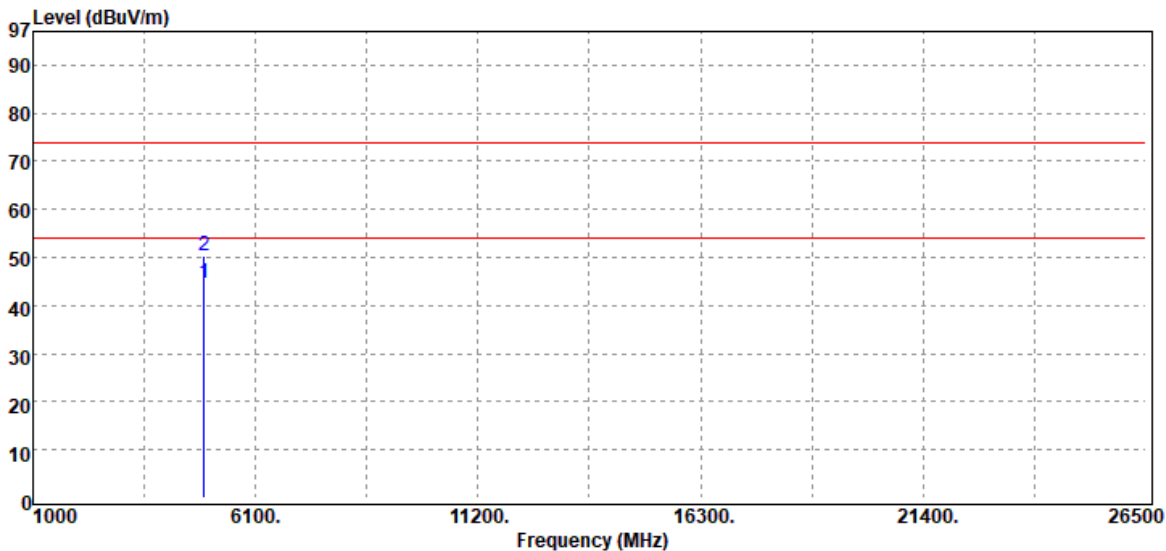
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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



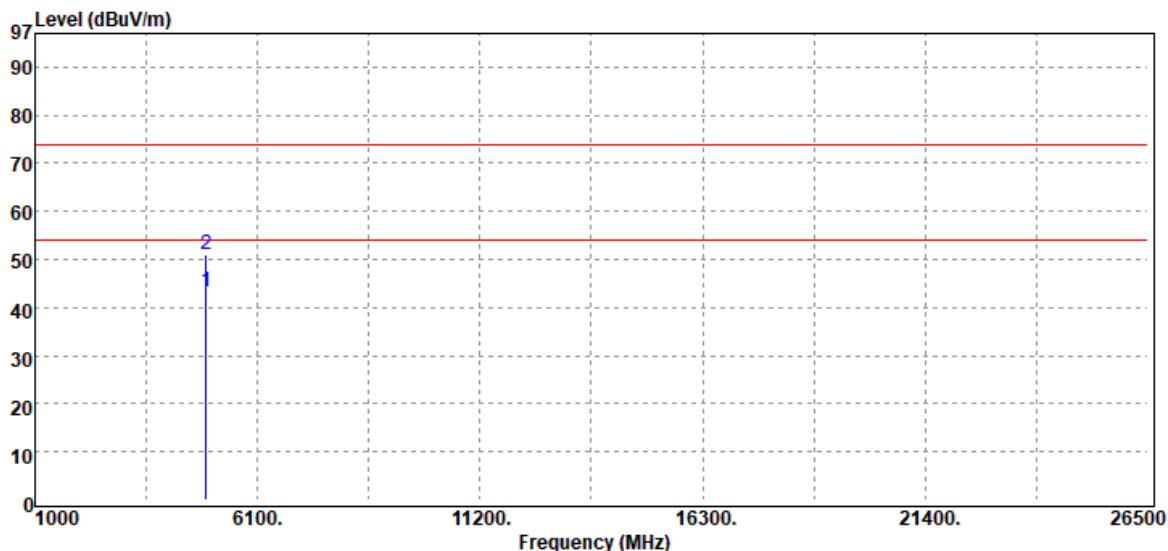
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	37.63	6.85	44.48	54.00	-9.52
4924.00	Peak	43.54	6.85	50.39	74.00	-23.61

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Report Number :ER/2019/B0064
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	36.29	6.85	43.14	54.00	-10.86
4924.00	Peak	44.33	6.85	51.18	74.00	-22.82

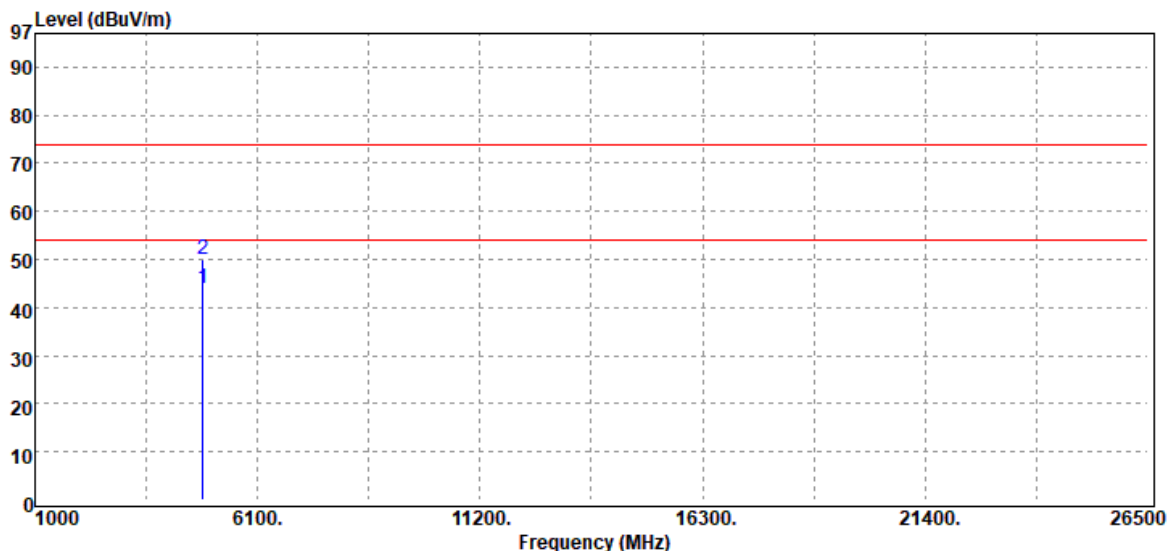
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	Average	37.45	6.60	44.05	54.00	-9.95
4844.00	Peak	43.36	6.60	49.96	74.00	-24.04

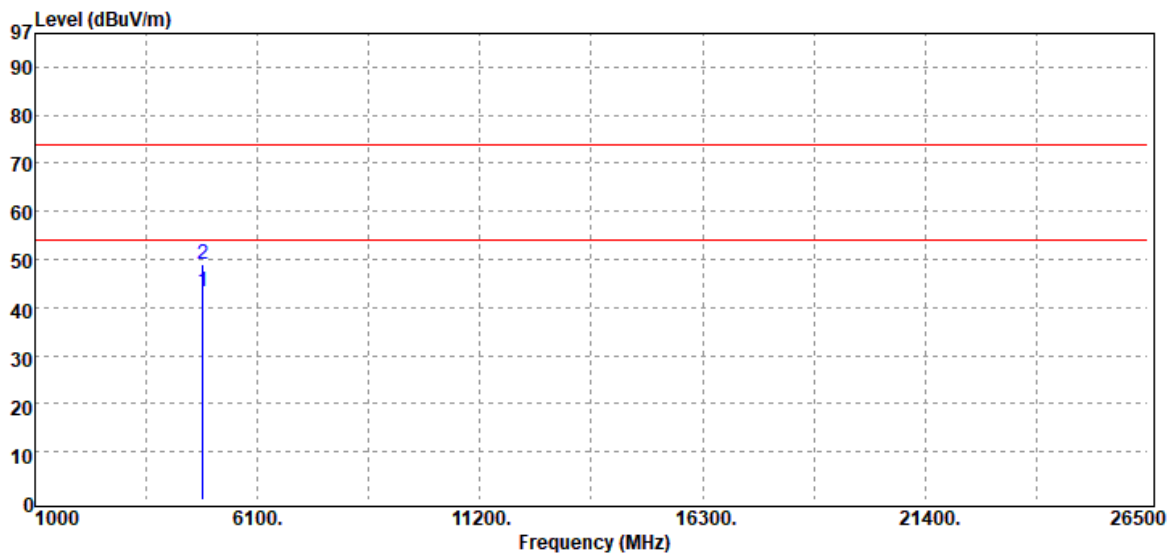
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	Average	36.71	6.60	43.31	54.00	-10.69
4844.00	Peak	42.32	6.60	48.92	74.00	-25.08

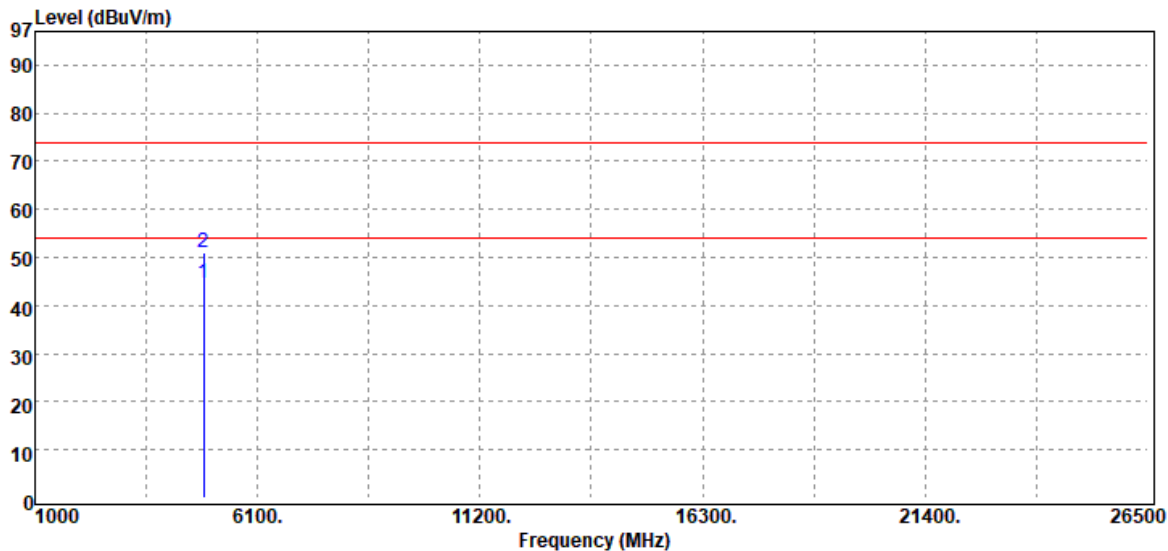
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



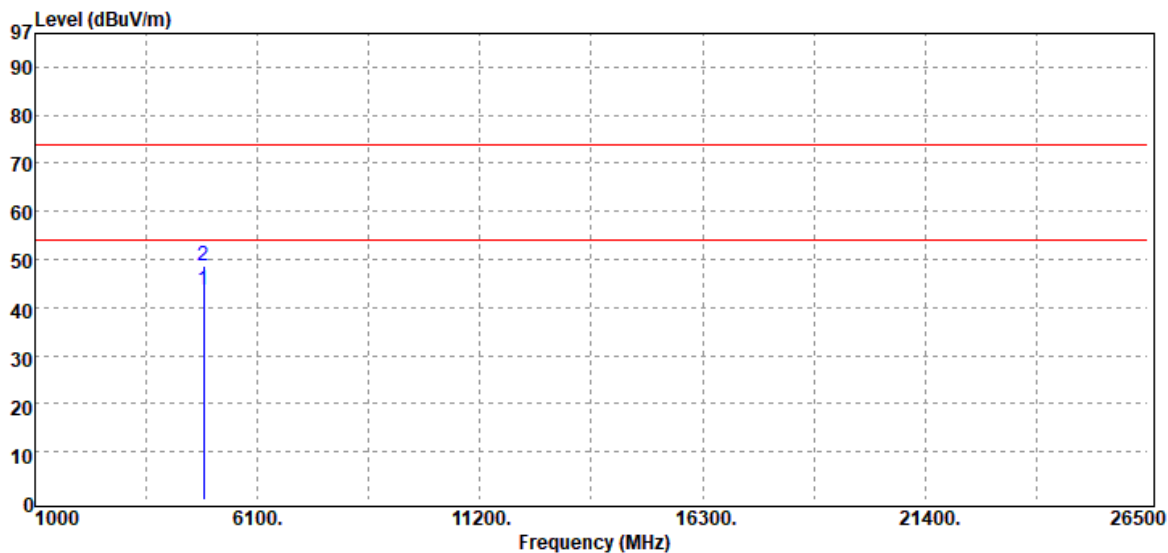
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	38.05	6.69	44.74	54.00	-9.26
4874.00	Peak	44.45	6.69	51.14	74.00	-22.86

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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	36.94	6.69	43.63	54.00	-10.37
4874.00	Peak	42.11	6.69	48.80	74.00	-25.20

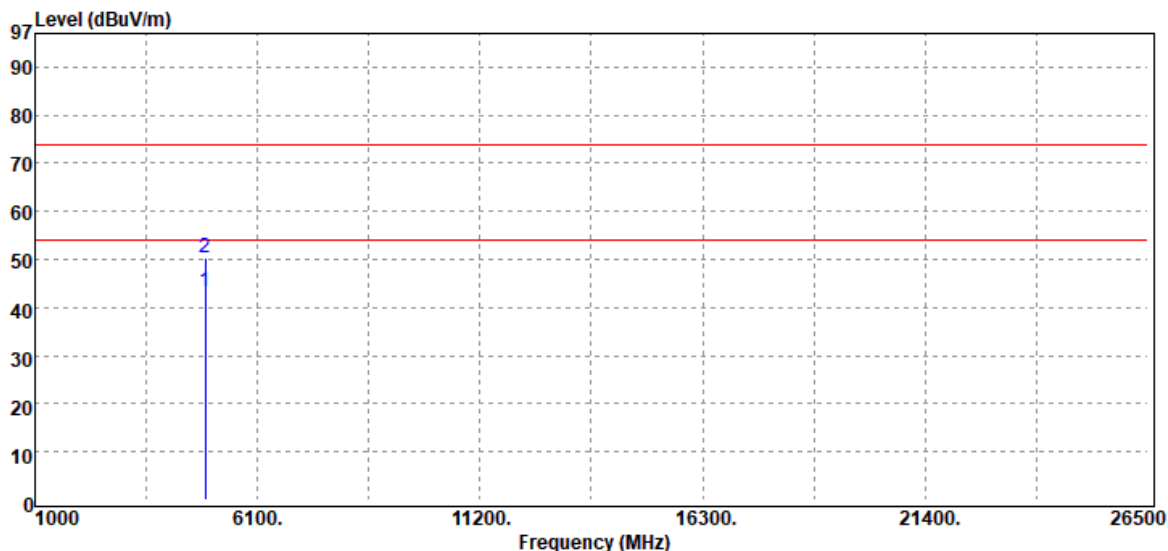
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.00	Average	36.37	6.78	43.15	54.00	-10.85
4904.00	Peak	43.50	6.78	50.28	74.00	-23.72

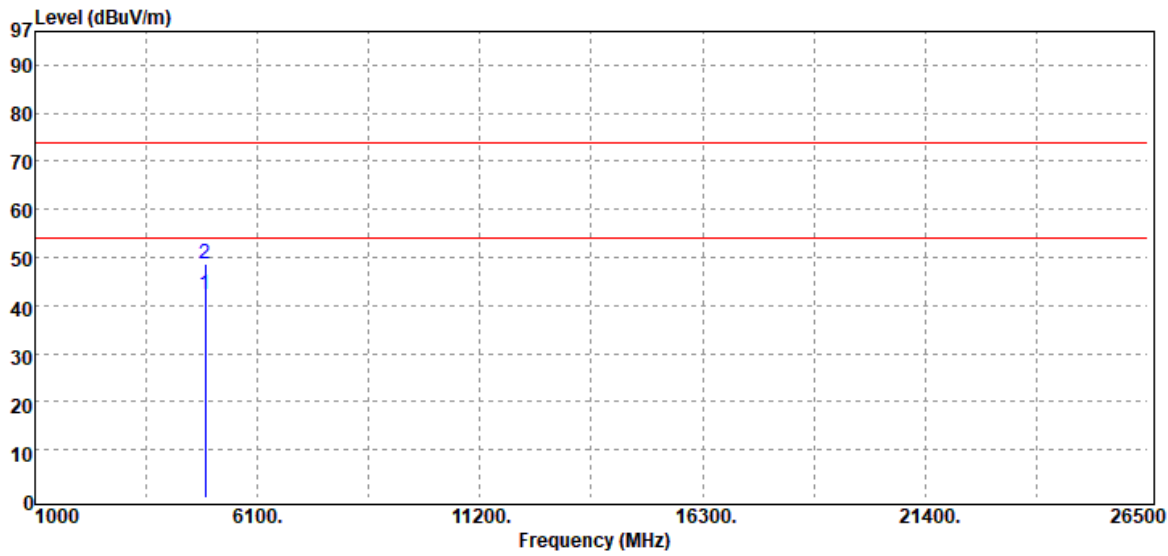
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Report Number :ER/2019/B0064
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-12-24
Temp./Humi. :23/67
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	35.49	6.78	42.27	54.00	-11.73
4904.00	Peak	41.92	6.78	48.70	74.00	-25.30

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

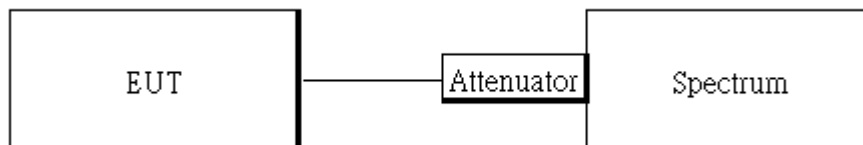
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2019	01/04/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2019	01/04/2020

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

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12.5 As per FCC KDB 662911 D01

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

Frequency (MHz)	Effective Legacy Gain (dBi)	Peak spectral density (dBm/3kHz)
2412~2462	7.61	6.39

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12.6 Power spectral density

POWER DENSITY 802.11b_2TX			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-4.25	6.39	PASS
2437	-5.88	6.39	PASS
2462	-3.84	6.39	PASS

POWER DENSITY 802.11g_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.80	6.39	PASS
2437	-5.45	6.39	PASS
2462	-7.98	6.39	PASS

POWER DENSITY 802.11n_HT20_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.94	6.39	PASS
2437	-3.61	6.39	PASS
2462	-9.90	6.39	PASS

POWER DENSITY 802.11n_HT40_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-14.48	6.39	PASS
2437	-11.62	6.39	PASS
2452	-13.78	6.39	PASS

Note

Cable Loss 11.60 dB

*Refer to next page for plots

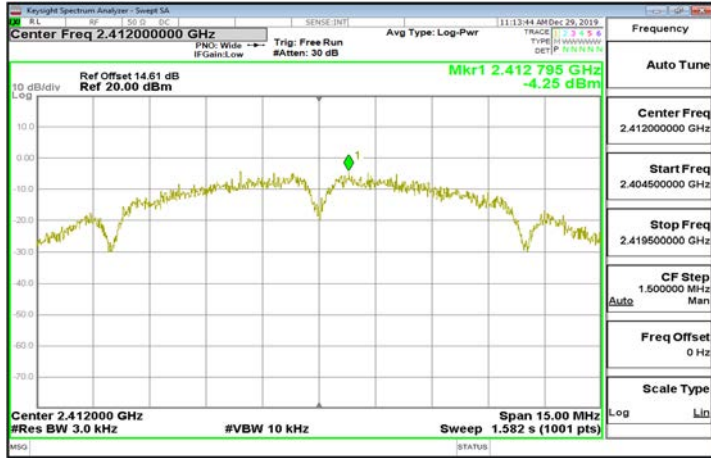
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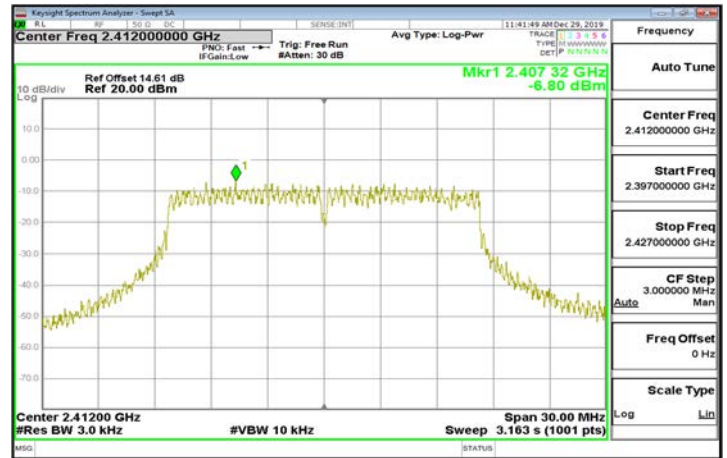
802.11b

Power Spectral Density Test Plot-2412MHz



802.11g

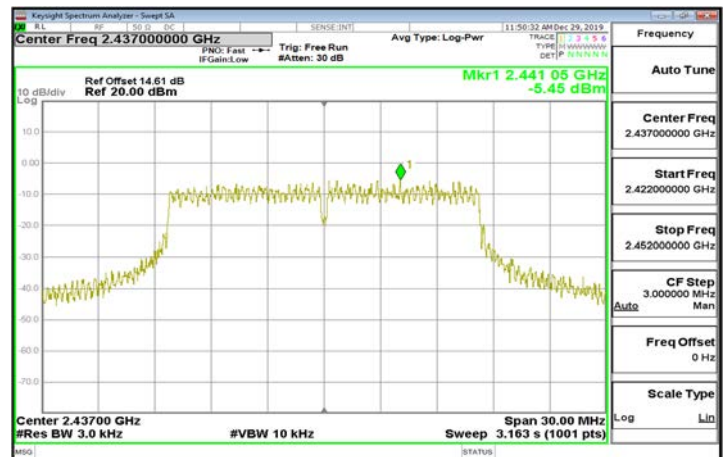
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Power Spectral Density Test Plot-2437MHz



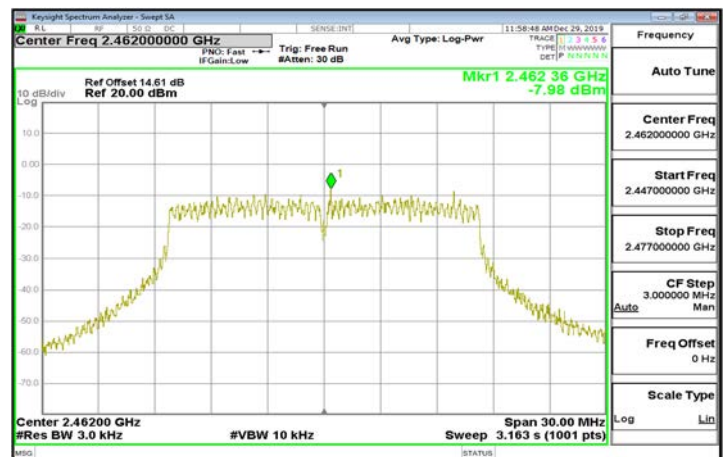
Power Spectral Density Test Plot-2437MHz



Power Spectral Density Test Plot-2462MHz



Power Spectral Density Test Plot-2462MHz



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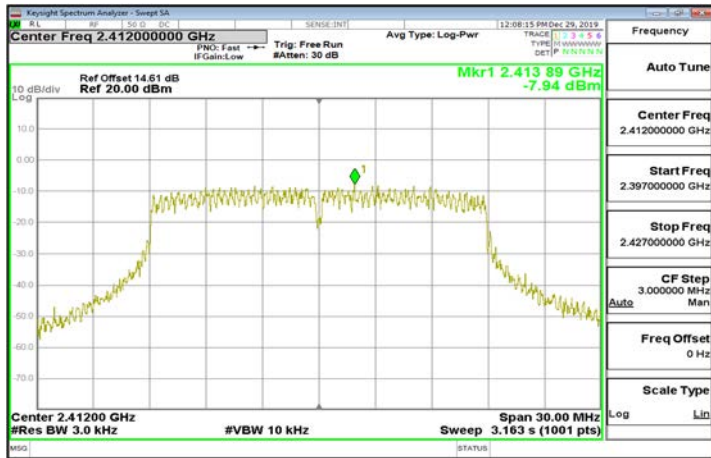
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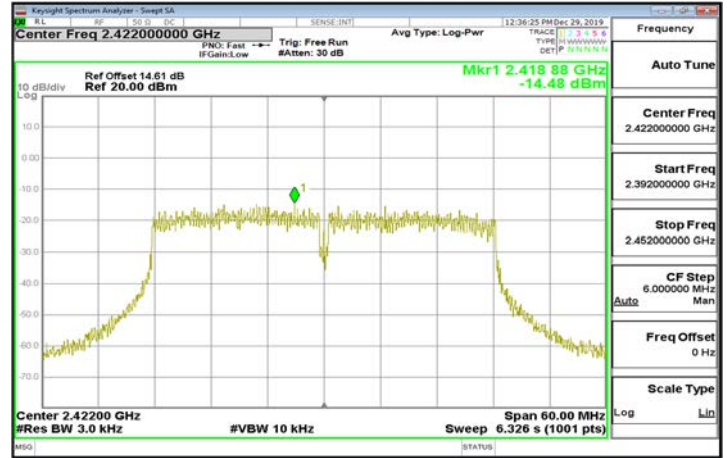
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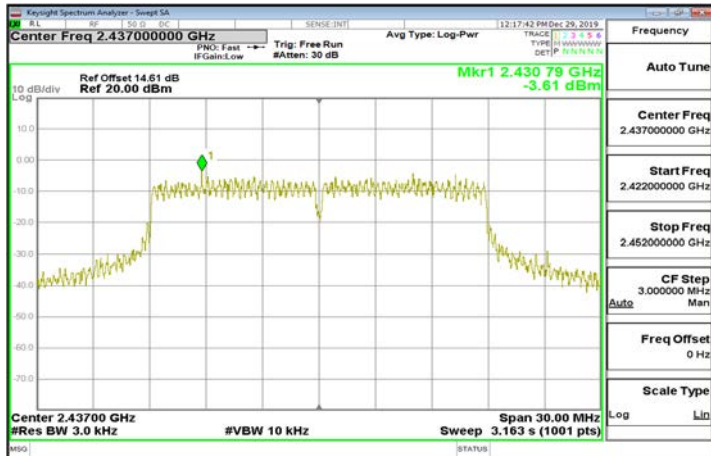
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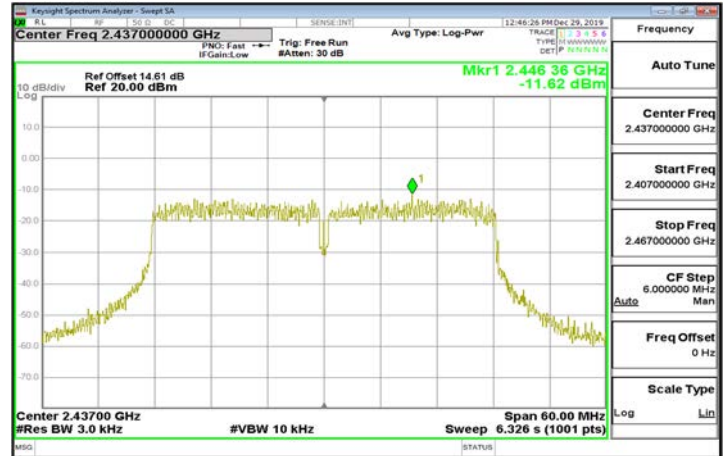
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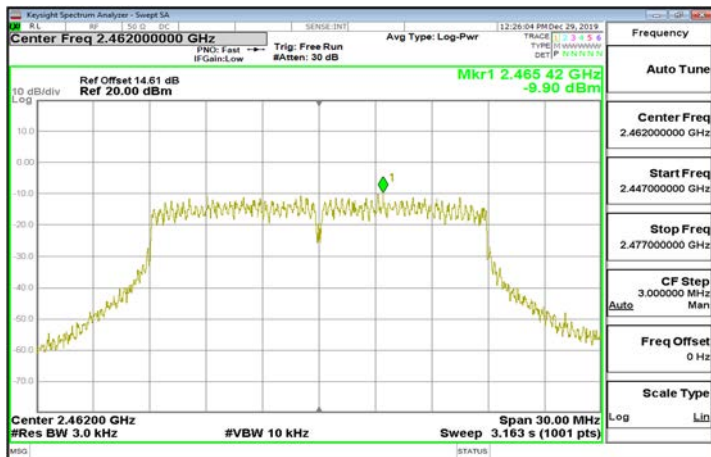
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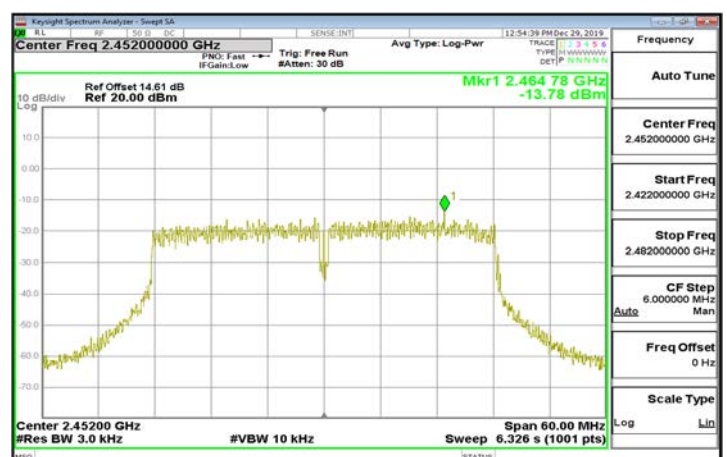
Power Spectral Density Test Plot-2437MHz



Power Spectral Density Test Plot-2462MHz



Power Spectral Density Test Plot-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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