

TEST REPORT

Report No.: SHE20010035-01AE

Date: 2020-4-18

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Applicant : Shanghai Goodview Electronics Technology Co., Ltd.
Address of Applicant : Room 866, NO.888, West Huanhu 2
Road, Nanhui Xincheng Town, Pudong, 201306

Product Name : Double-sided digital poster installation/Ultrathin Digital Poster
Model No. : D*****
Sample No. : E20010035-01#01
FCC ID : 2AVB8YLDH

Standards : FCC CFR47 Part 15, Subpart C
RSS-Gen (Issue 5, March 2019)
RSS-247 (Issue 2, February 2017)

Date of Receipt : 2020-1-06
Date of Test : 2020-1-06 ~ 2020-4-18
Date of Issue : 2020-4-18

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:

Jennifer Zhou
(Jennifer Zhou)

Reviewed by:

jesse
(jesse)

Approved by:

Guoyou Chi
(Authorized signatory: Guoyou Chi)

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Revision Record			
Version	Date	Revisions	Revised By
1.0	2019-10-31	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	155 Pingbei Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shanghai Goodview Electronics Technology Co., Ltd.
Address	Room 866,NO.888,West Huanhu 2 Road,NanhuiXincheng Town,Pudong,201306
Contact Person	Hongyue.Xu
Telephone	n.a
Email	xuhongyue@goodview.com

1.3 Details of EUT

Product Name	Double-sided digital poster installation/Ultrathin Digital Poster
Brand Name	GOODVIEW
Model No.	D*****
serial model	(*=A to Z, 0 to 9,blank,just difference in appearance color,sales area customer code ,and software version)
Mode of Operation	WLAN 802.11b/g/n(20M)
Frequency Range	802.11b/g/n(20M): 2412-2462MHz
Number of Channels	802.11b/g/n(20M): 11 Channels;
Modulation Type	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n(20M): OFDM(64QAM, 16QAM, QPSK, BPSK)
Antenna Type	external Antenna
Antenna Gain	3 dBi
Extreme Temperature Range	+10℃~ +40℃
Test Voltage	AC 100~240V
Adaptive	Adaptive device
Antenna Type	external Antenna
Receiver Categories	1

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1.4 Test Methodology

47 CFR Part 15, Subpart C (10-1-16 Edition)	Miscellaneous Wireless Communications Services
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
KDB Publication 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
RSS-Gen (Issue 5, March 2019)	General Requirements for Compliance of Radio Apparatus
RSS-247 (Issue 2, February 2017)	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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2 Test Condition

2.1 Test Facility

2.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.3 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2020-07-28
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2020-06-24
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2020-06-19
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2020-06-19
V-network	SCHWARZBECK	NSLK 8127	8127-902	2021-02-20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2020-08-22
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2020-06-06
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2020-06-06
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2021-03-19
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2020-07-26
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2020-06-26
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2020-08-28
Test Software	BL	BL410_E	N/A	N/A

2.4 Measurement Uncertainty

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3 dB
	> 1GHz	± 3 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:
For 802.11b/g/n (HT20)

Channel	Frequency
The lowest channel(CH1)	2412MHz
The middle channel(CH6)	2437MHz
The Highest channel(CH11)	2462MHz

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate
802.11b	11Mbps
802.11g	54Mbps
802.11n(20M)	MCS7

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

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3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	TP00083A	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	/	RF Test Tool

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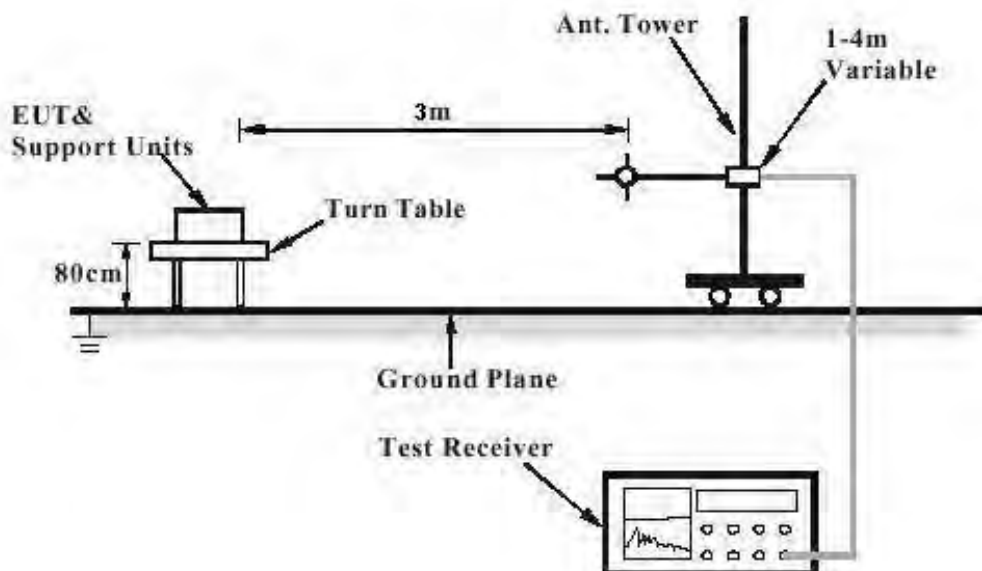
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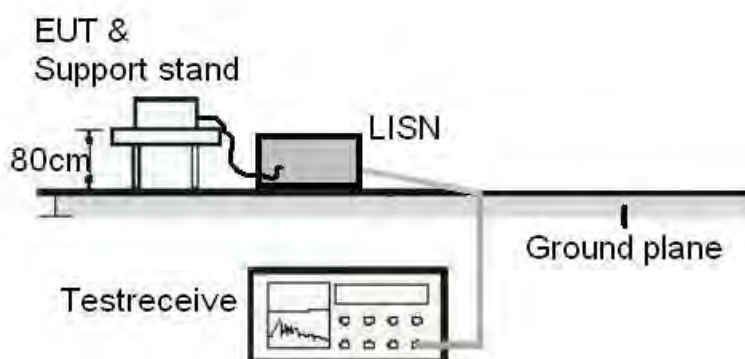
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement



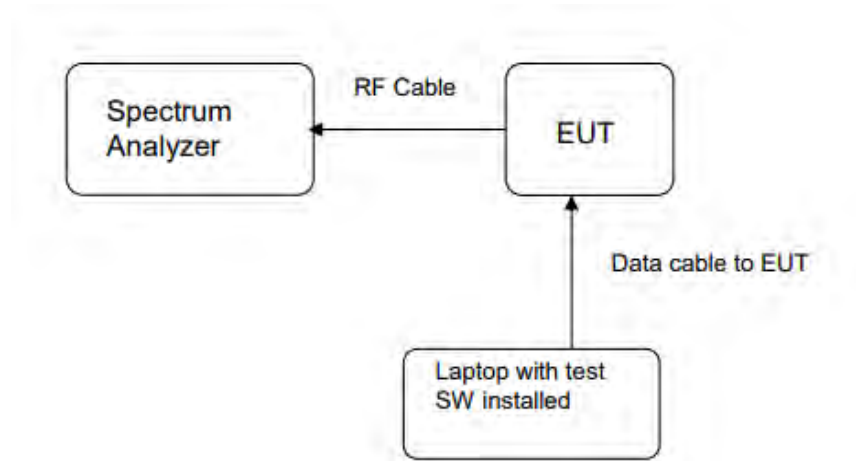
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Diagram of Measurement Equipment Configuration for Transmitter Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard : FCC Part 15.247(b)(4), Part 15.203
RSS-247 5.4(6)

Requirement : The use of approved antennas only with directional
gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 3 dBi. The antenna is with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Peak Output Power and E.I.R.P

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)
RSS-247 5.4(4)
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 1: Peak Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(mW)	
802.11b	2412	13.30	21.38	< 1
	2437	12.93	19.63	
	2462	12.82	19.14	
802.11g	2412	11.99	15.81	
	2437	11.67	14.69	
	2462	11.91	15.52	
802.11n(HT20)	2412	10.91	12.33	
	2437	10.6	11.48	
	2462	10.52	11.27	

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Table 2: E.I.R.P

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(mW)	
802.11b	2412	14.91	30.97	< 4
	2437	15.14	32.66	
	2462	15.23	33.34	
802.11g	2412	14.09	25.64	
	2437	14.42	27.67	
	2462	14.68	29.38	
802.11n(HT20)	2412	14.23	26.49	
	2437	14.62	28.97	
	2462	14.86	30.62	

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4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2)
RSS-247 5.2(1)
RSS-Gen 6.6
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 3: 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	7.209	12.149	0.5
	2437	7.159	12.057	
	2462	7.209	11.979	
802.11g	2412	16.020	16.346	
	2437	16.120	16.310	
	2462	15.770	16.334	
802.11n(HT20)	2412	13.867	17.504	
	2437	14.268	17.496	
	2462	16.170	17.514	

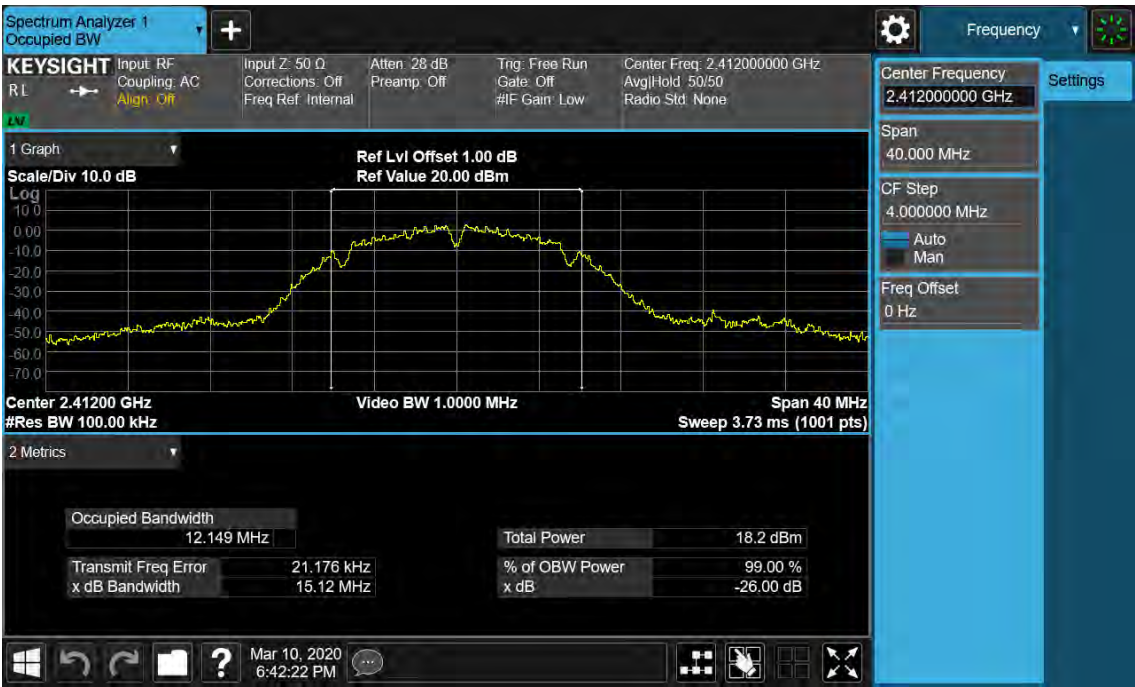
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Figure 1: 6dB Bandwidth and 99% Bandwidth, 802.11b, 2412MHz



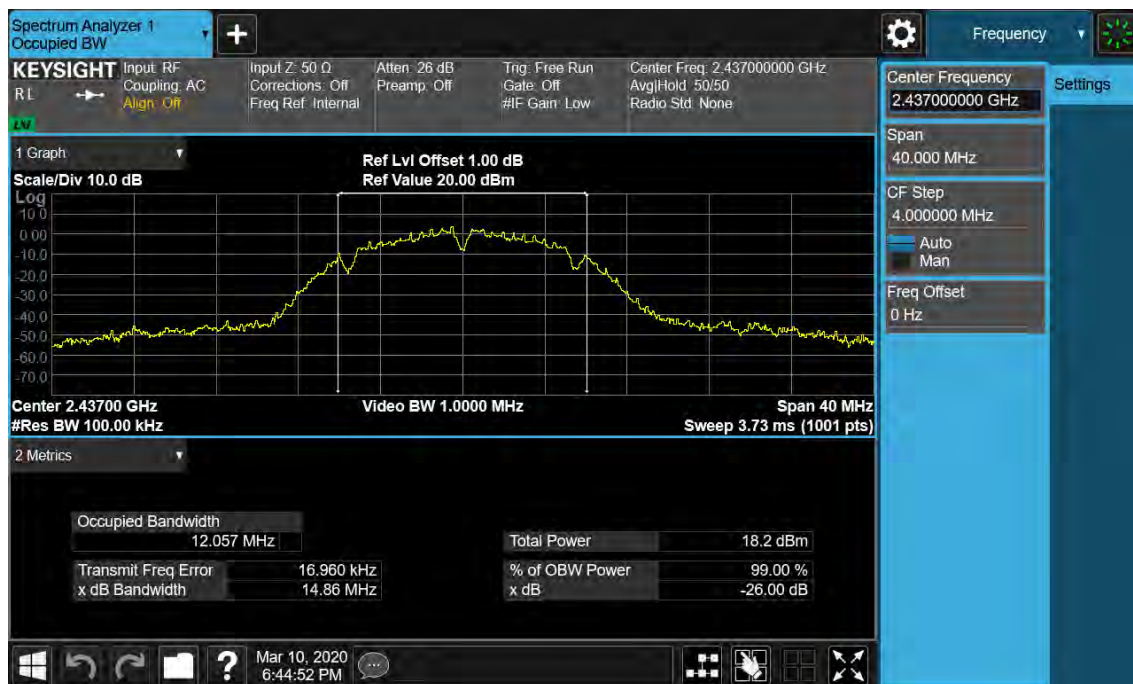
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Figure 2: 6dB Bandwidth and 99% Bandwidth, 802.11b, 2437MHz



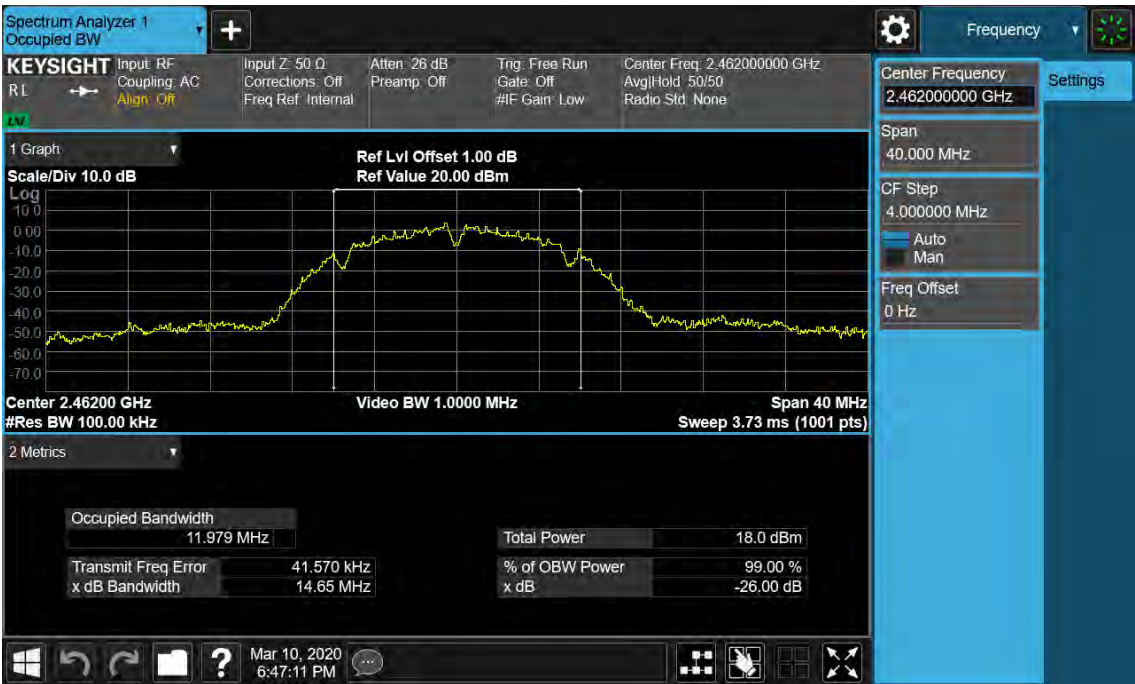
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Figure 3: 6dB Bandwidth and 99% Bandwidth, 802.11b, 2462MHz



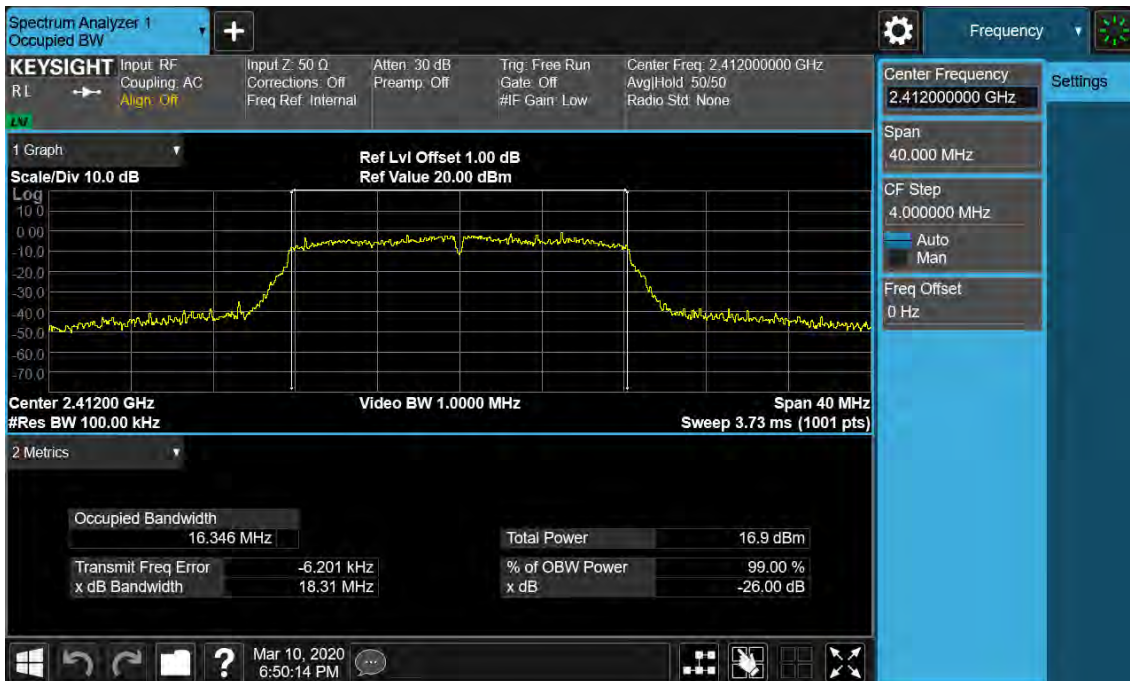
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Figure 4: 6dB Bandwidth and 99% Bandwidth, 802.11g, 2412MHz



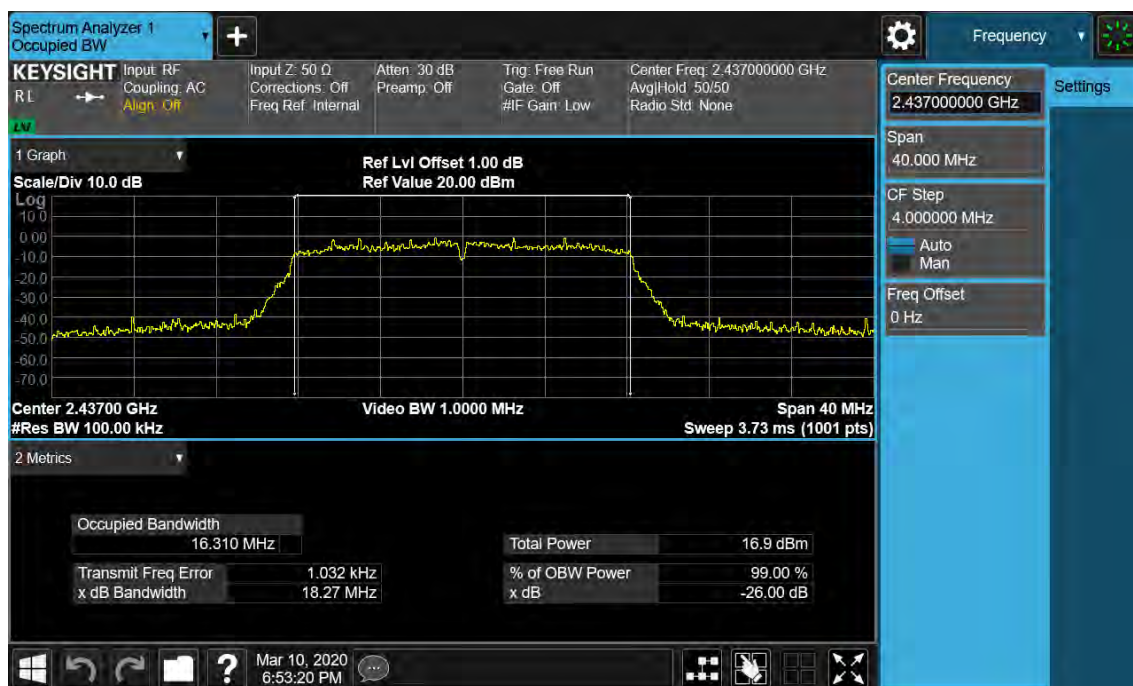
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Figure 5: 6dB Bandwidth and 99% Bandwidth, 802.11g, 2437MHz



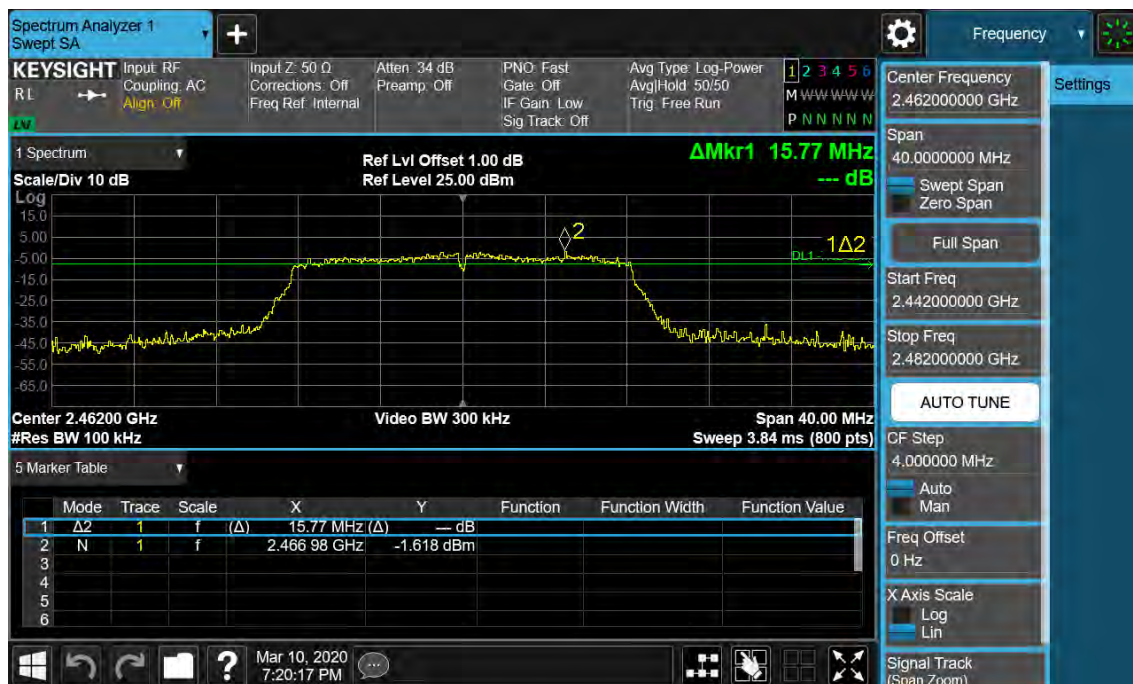
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Figure 6: 6dB Bandwidth and 99% Bandwidth, 802.11g, 2462MHz



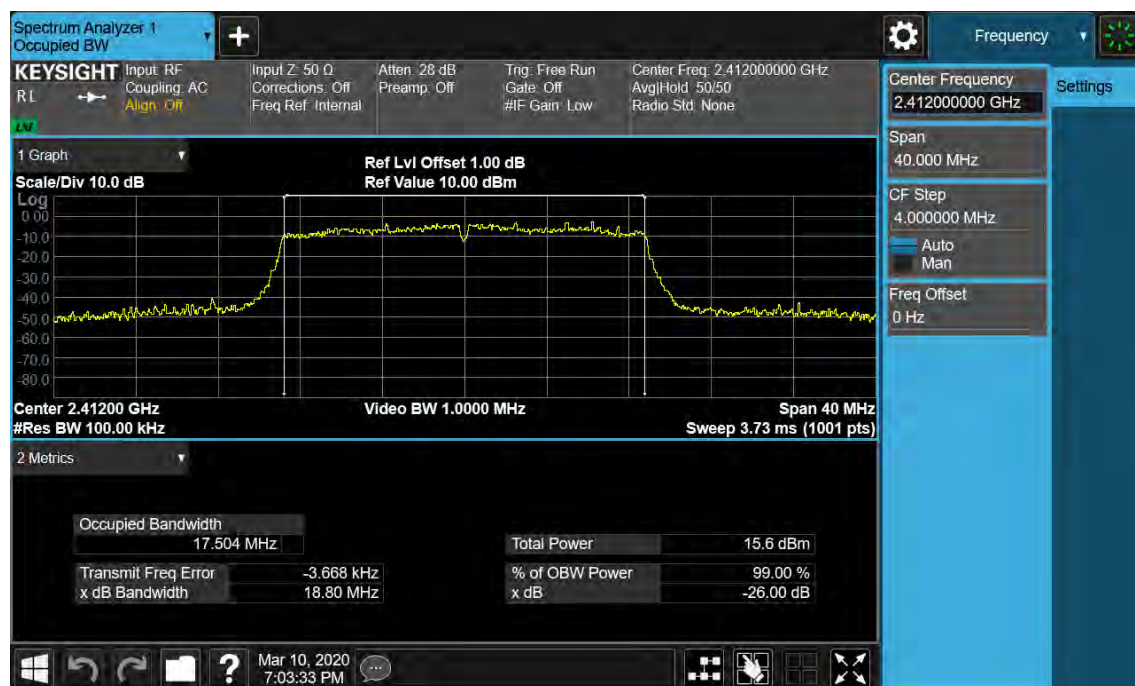
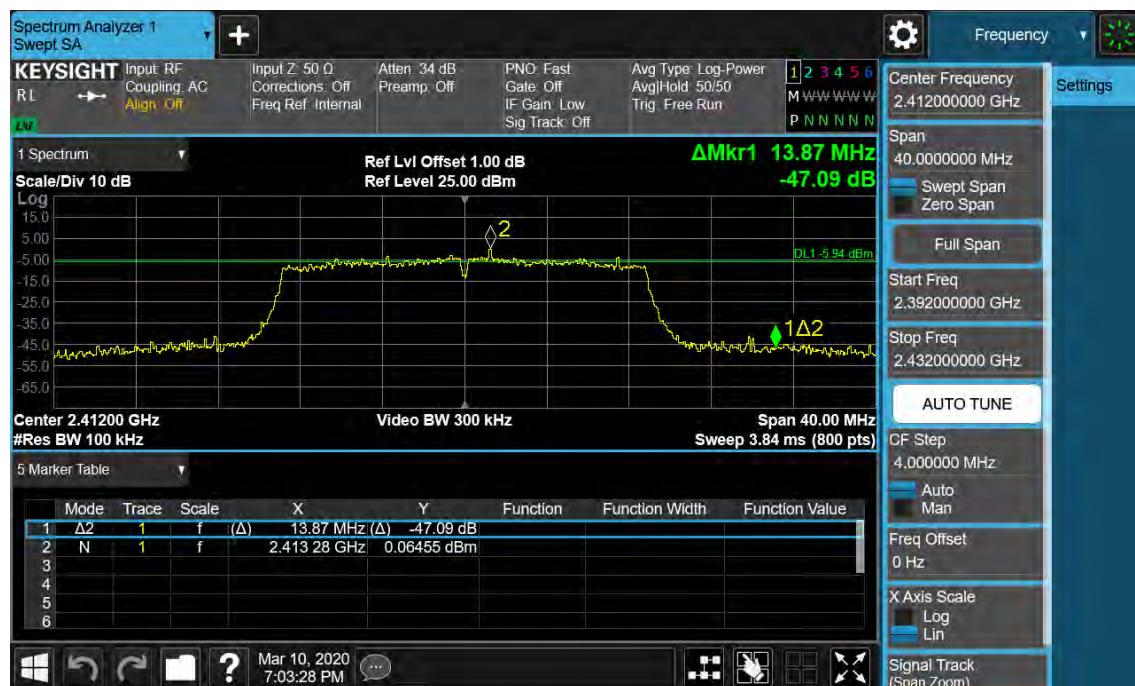
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Figure 7: 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2412MHz



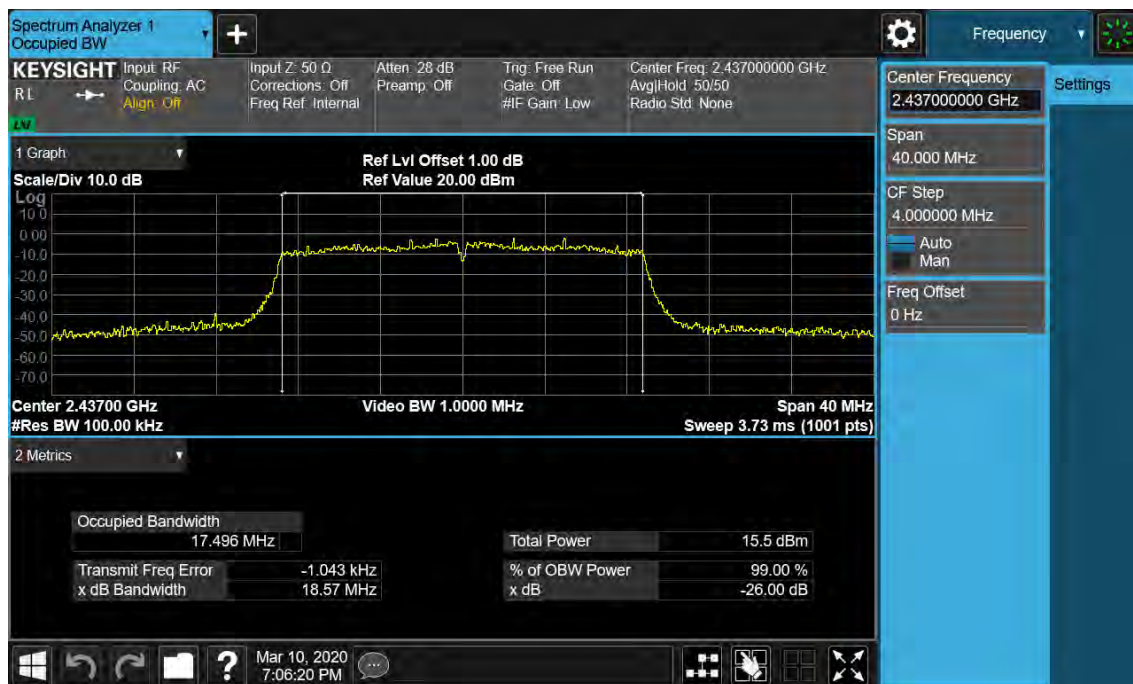
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Figure 8: 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2437MHz



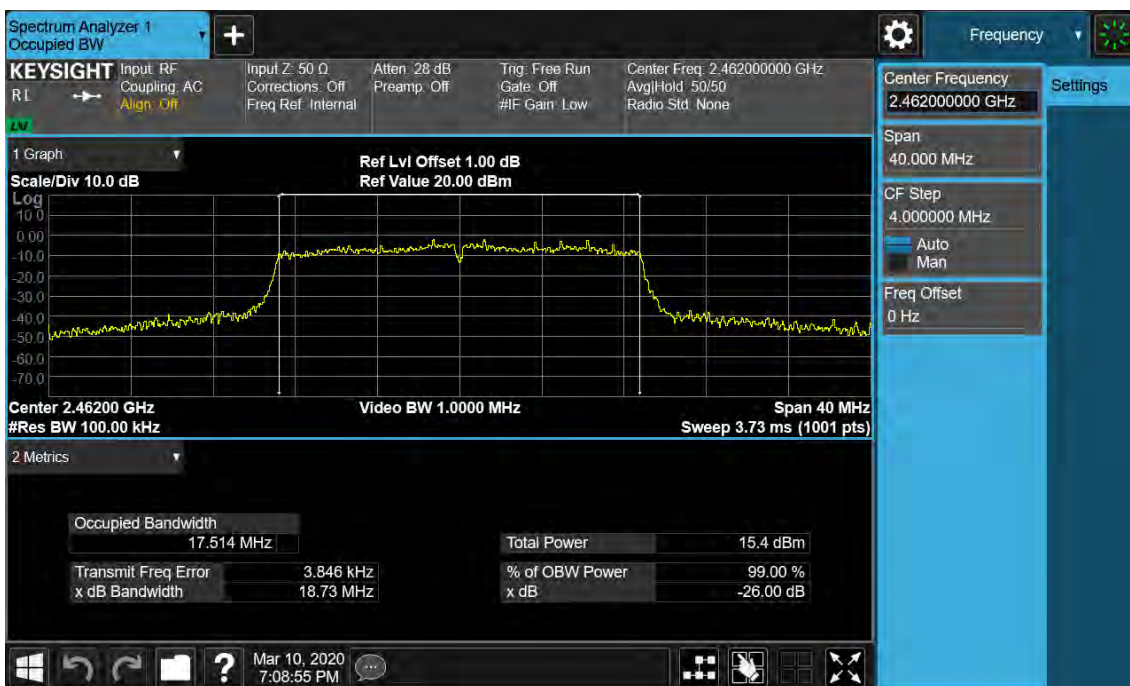
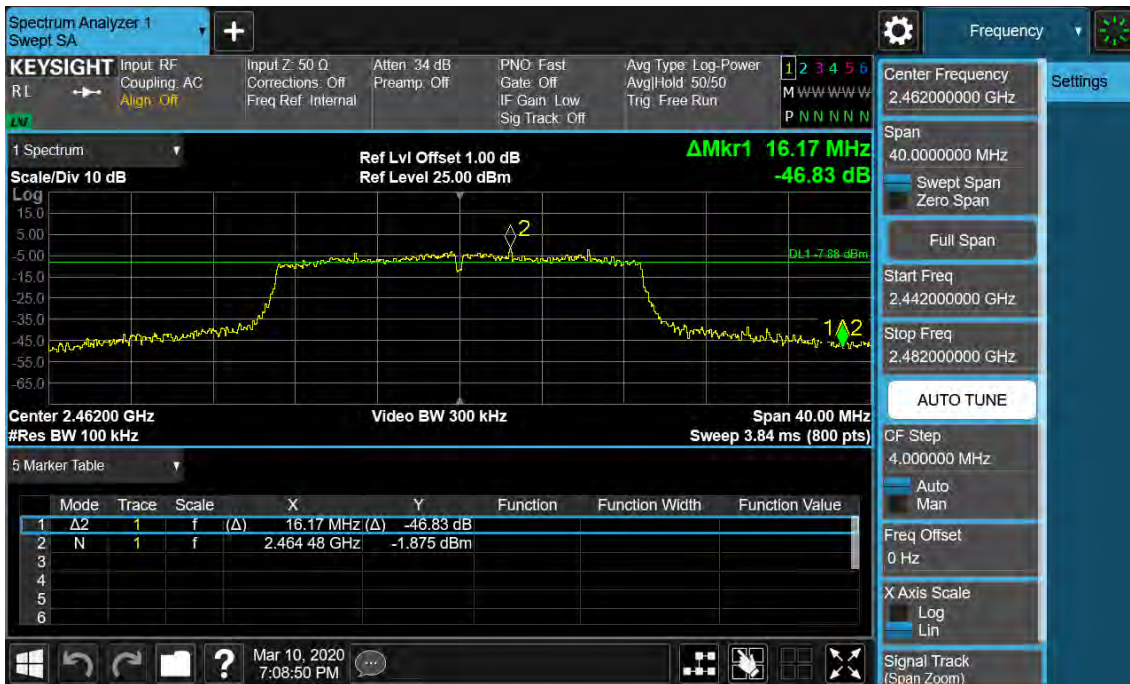
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Figure 9: 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2462MHz



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4.1.4 Power Spectral Density

RESULT:

PASS

Test standard : FCC Part 15.247(e)
RSS-247 5.2(2)
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 4: Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-11.87	8
	2437	-12.51	
	2462	-12.56	
802.11g	2412	-16.07	
	2437	-15.72	
	2462	-15.96	
802.11n(HT20)	2412	-16.91	
	2437	-17.65	
	2462	-17.85	

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Figure 10: Power Spectral Density, 802.11b, 2412MHz



Figure 11: Power Spectral Density, 802.11b, 2437MHz



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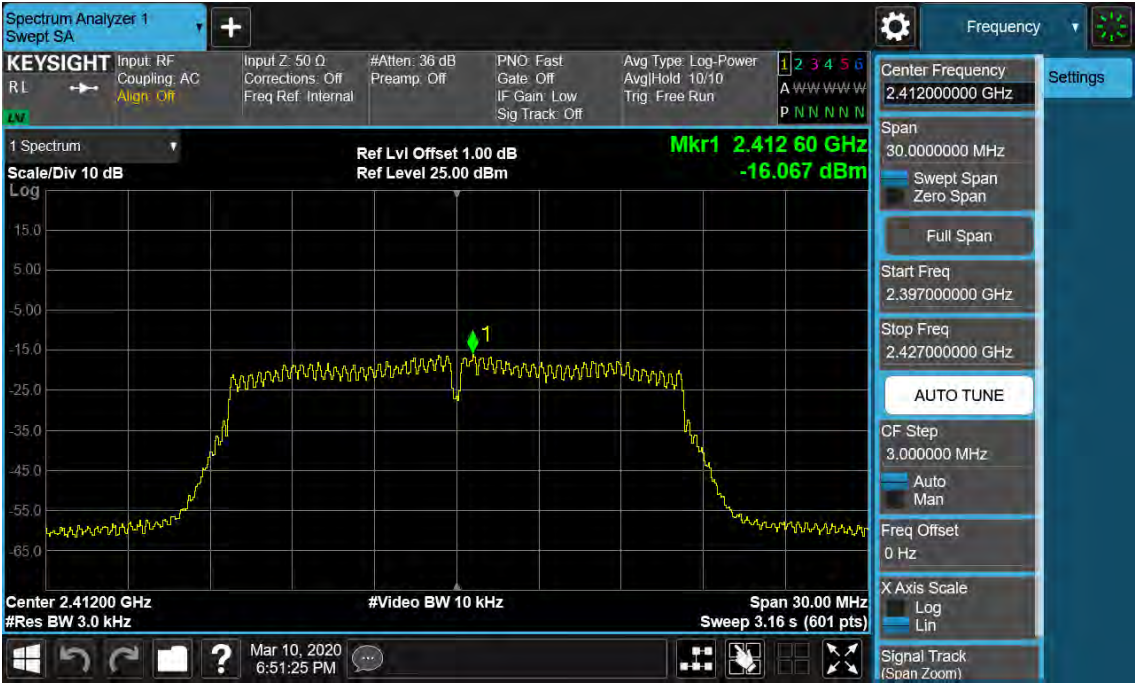
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Figure 12: Power Spectral Density, 802.11b, 2462MHz



Figure 13: Power Spectral Density, 802.11g, 2412MHz



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Figure 14: Power Spectral Density, 802.11g, 2437MHz

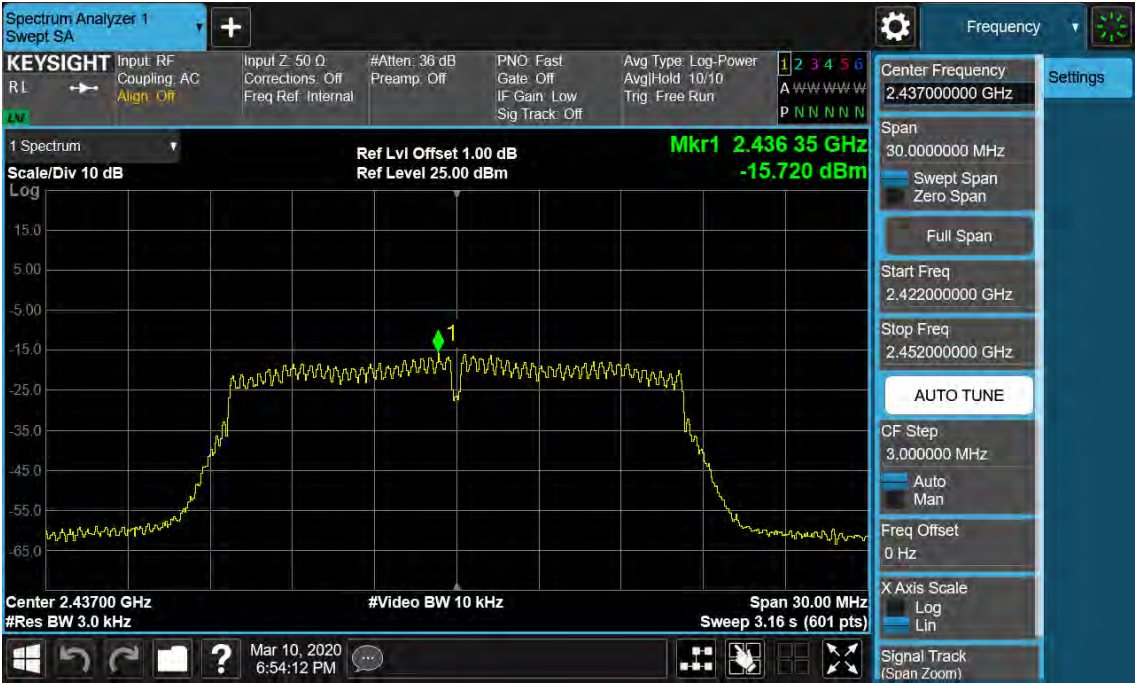
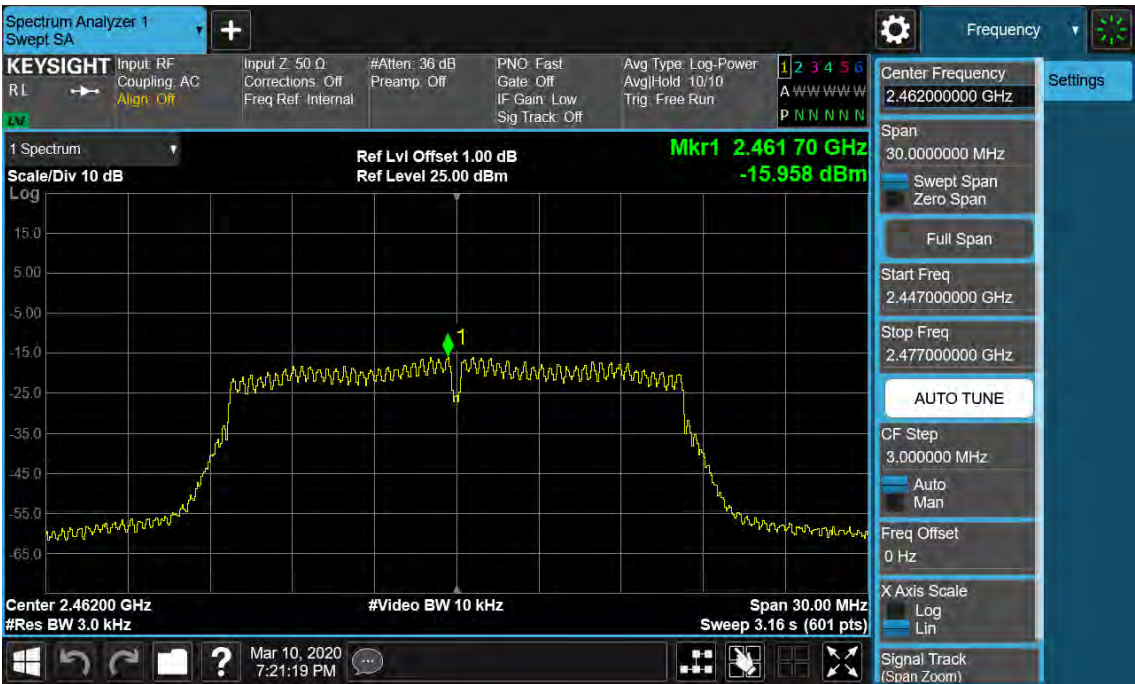


Figure 15: Power Spectral Density, 802.11g, 2462MHz



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Figure 16: Power Spectral Density, 802.11n(HT20), 2412MHz

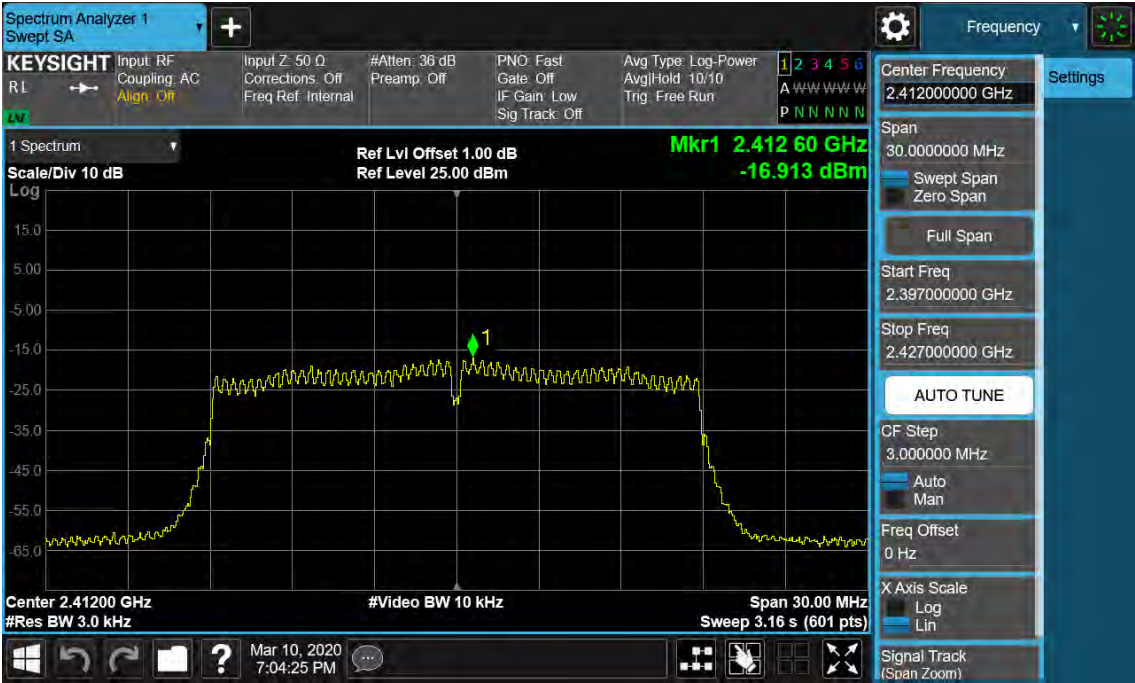
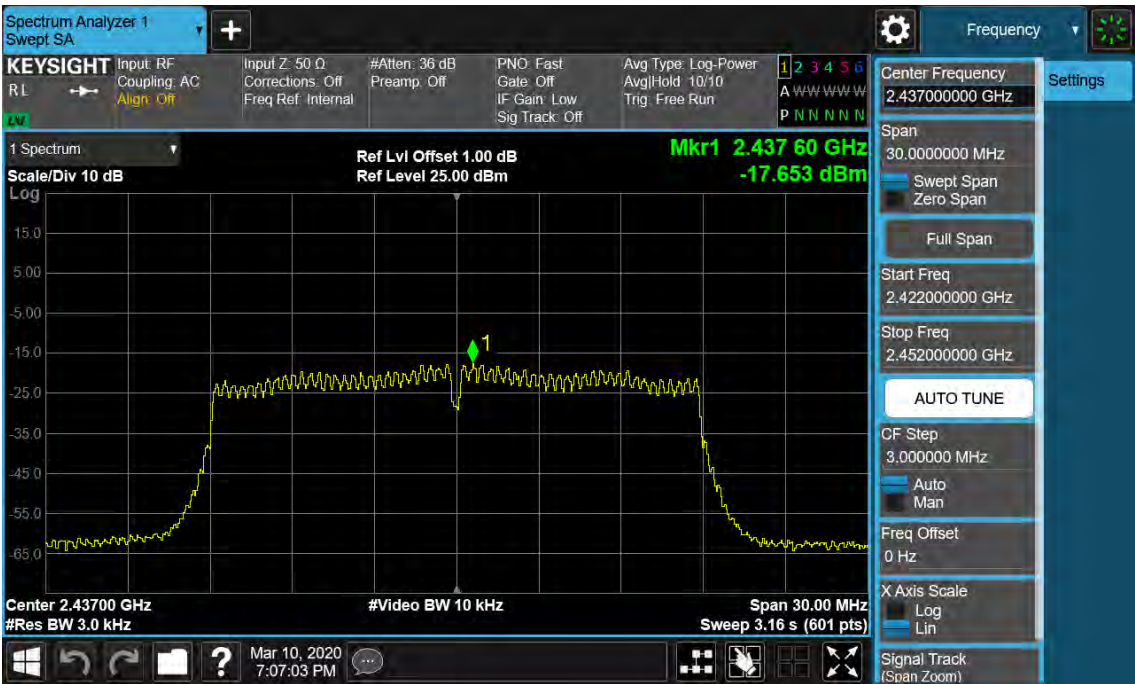
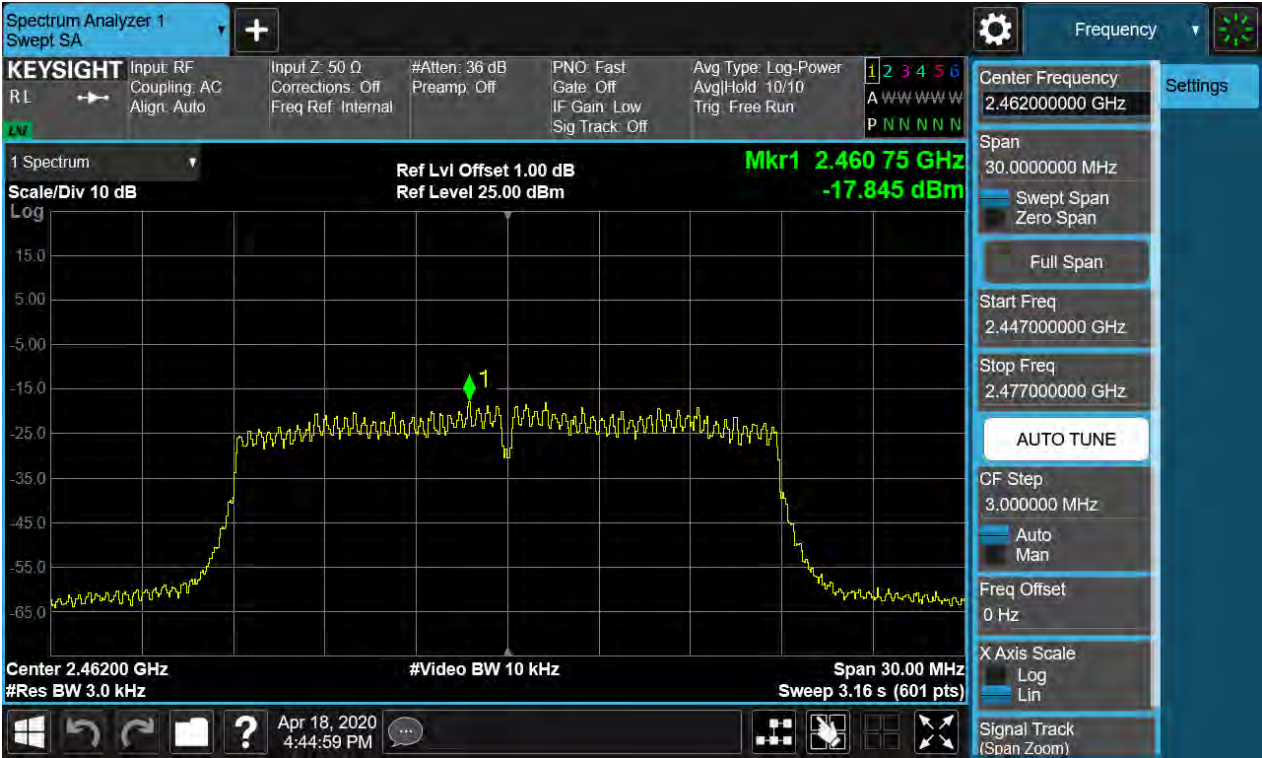


Figure 17: Power Spectral Density, 802.11n(HT20), 2437MHz



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Figure 18: Power Spectral Density, 802.11n(HT20), 2462MHz



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.209 RSS-247 5.5 RSS-Gen 8.9
Requirement	: ANSI C63.10-2013, KDB 558074
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	: A.1.a
Ambient temperature	: 25°C
Relative humidity	: 52%

For details refer to following test plot.

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Figure 19: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2412MHz Carrier Level



Band Edge



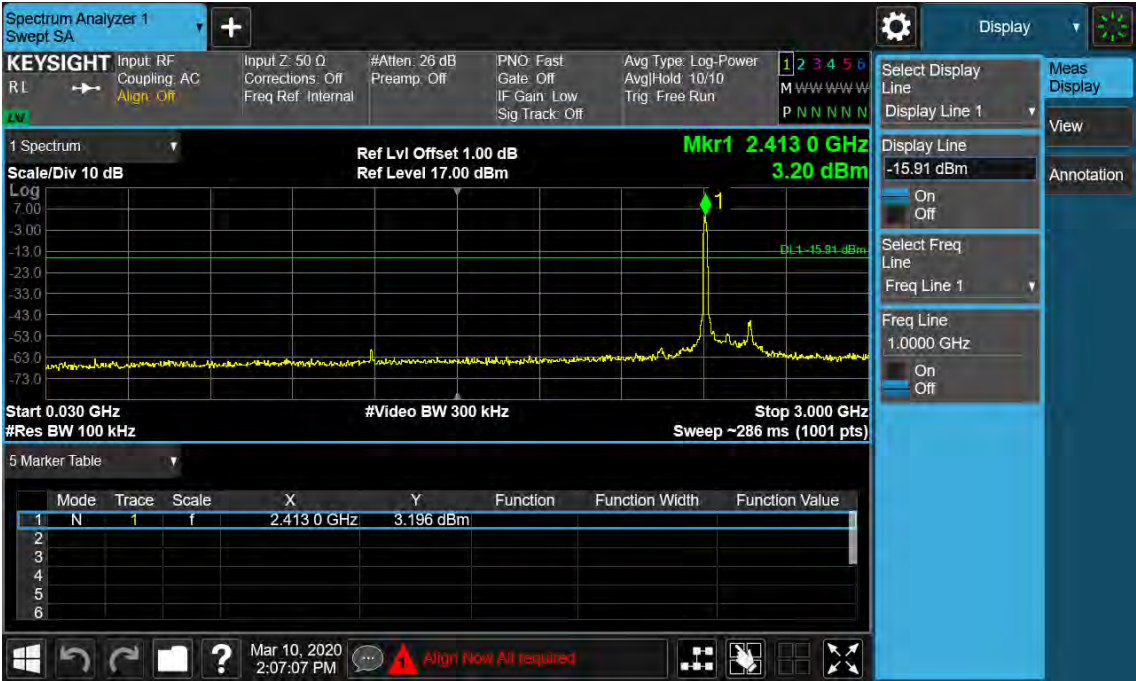
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Conducted spurious emissions 30MHz-25GHz



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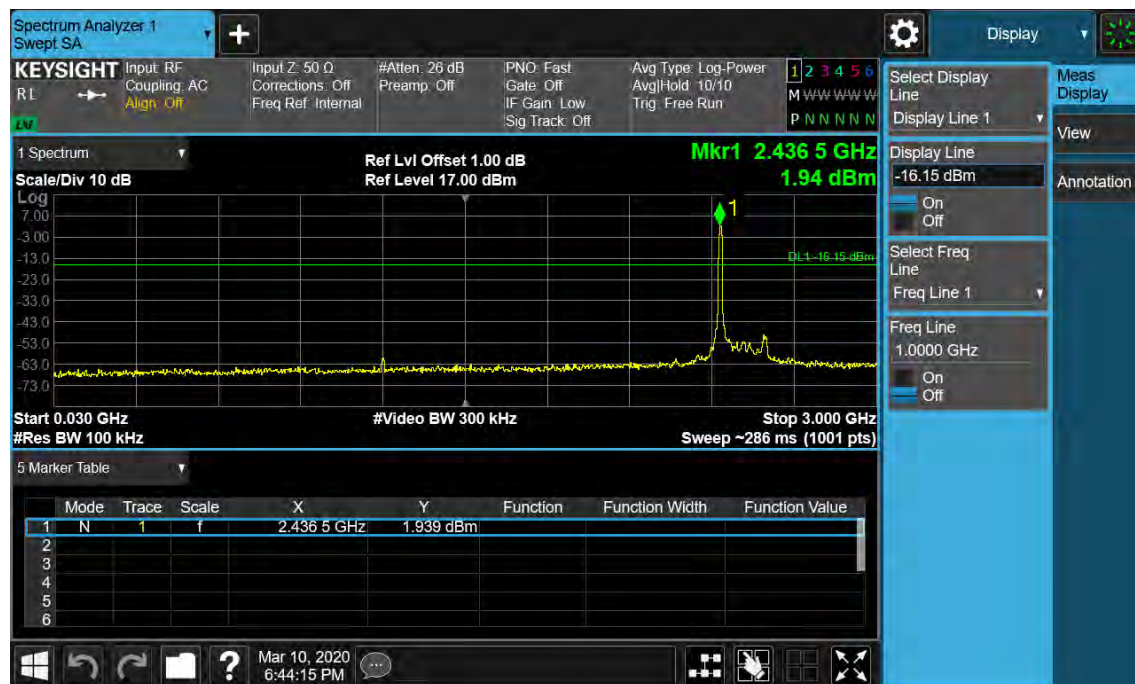
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Figure 20: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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Figure 21: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2462MHz Carrier Level



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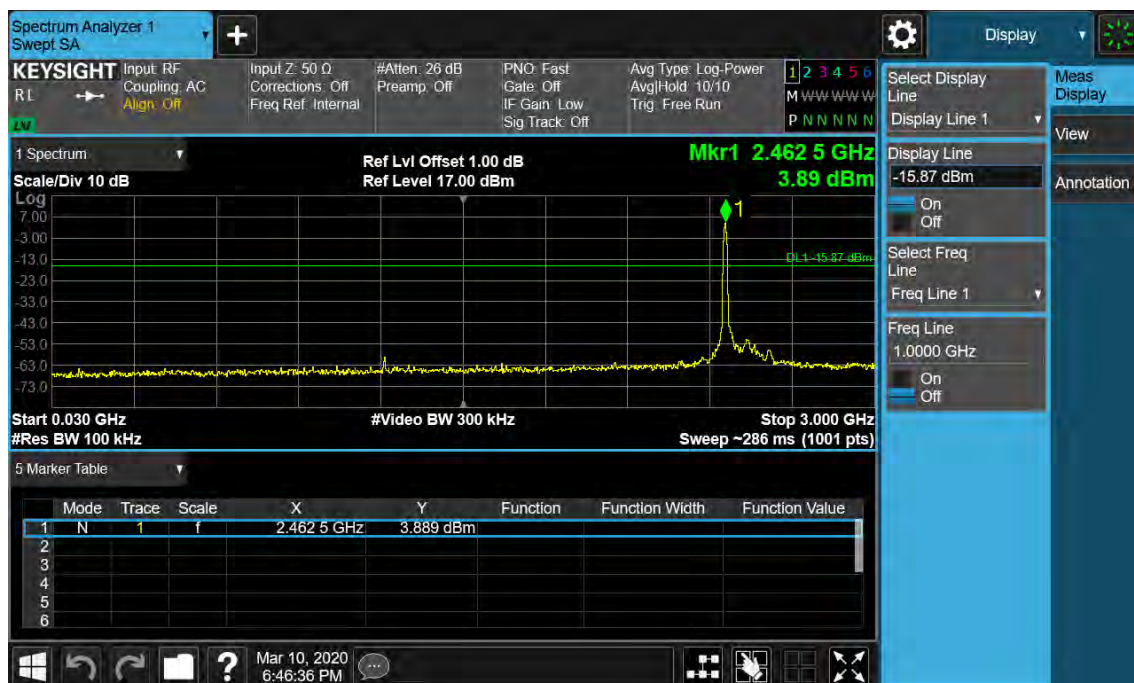
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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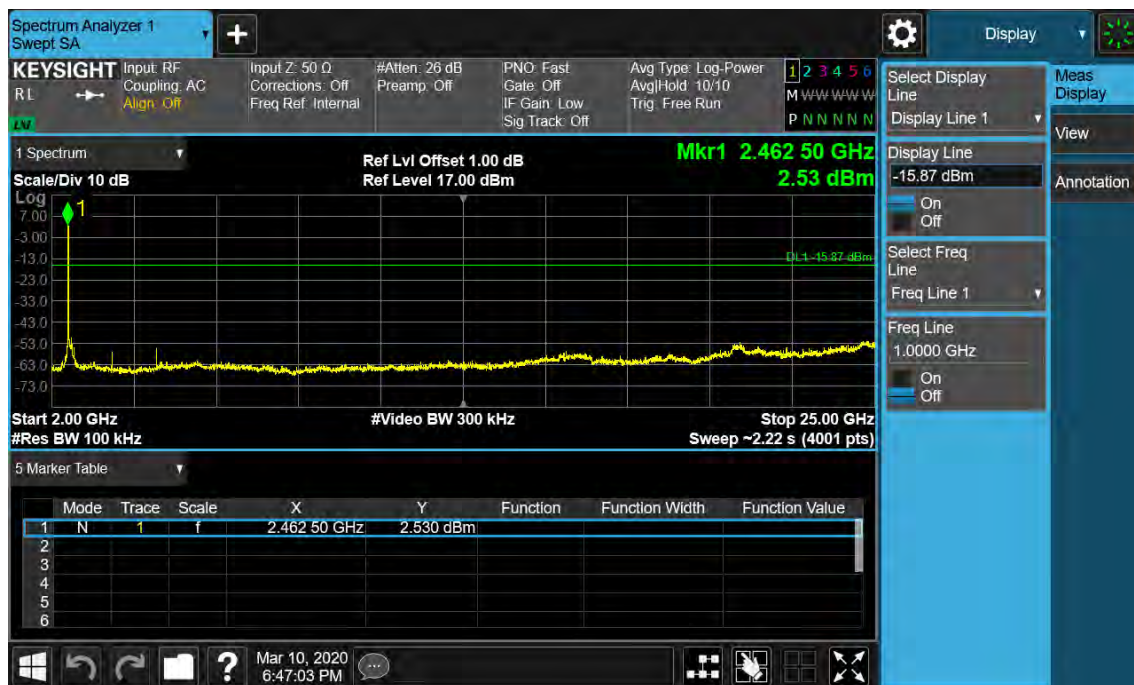


Figure 22: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



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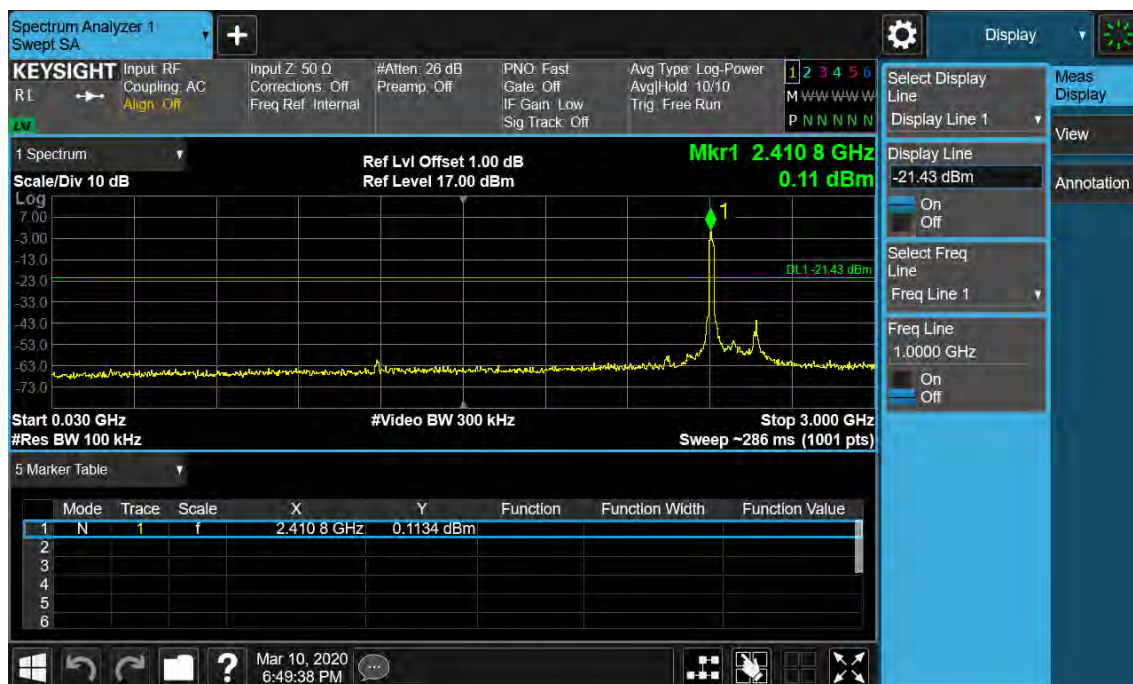
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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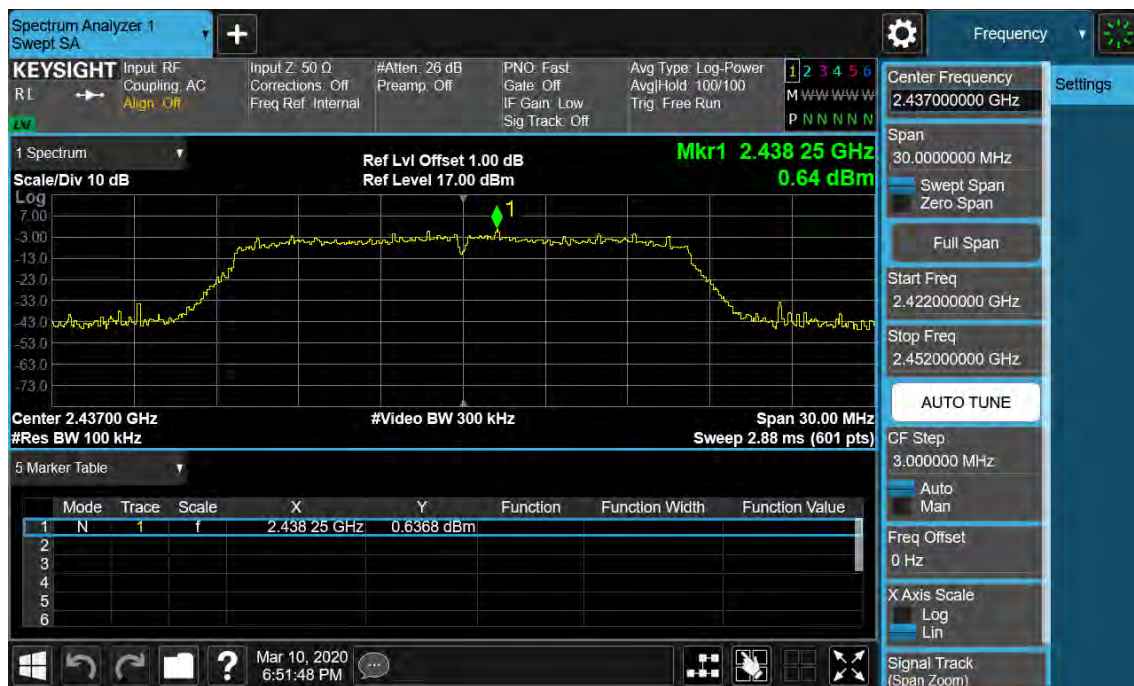
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Figure 23: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



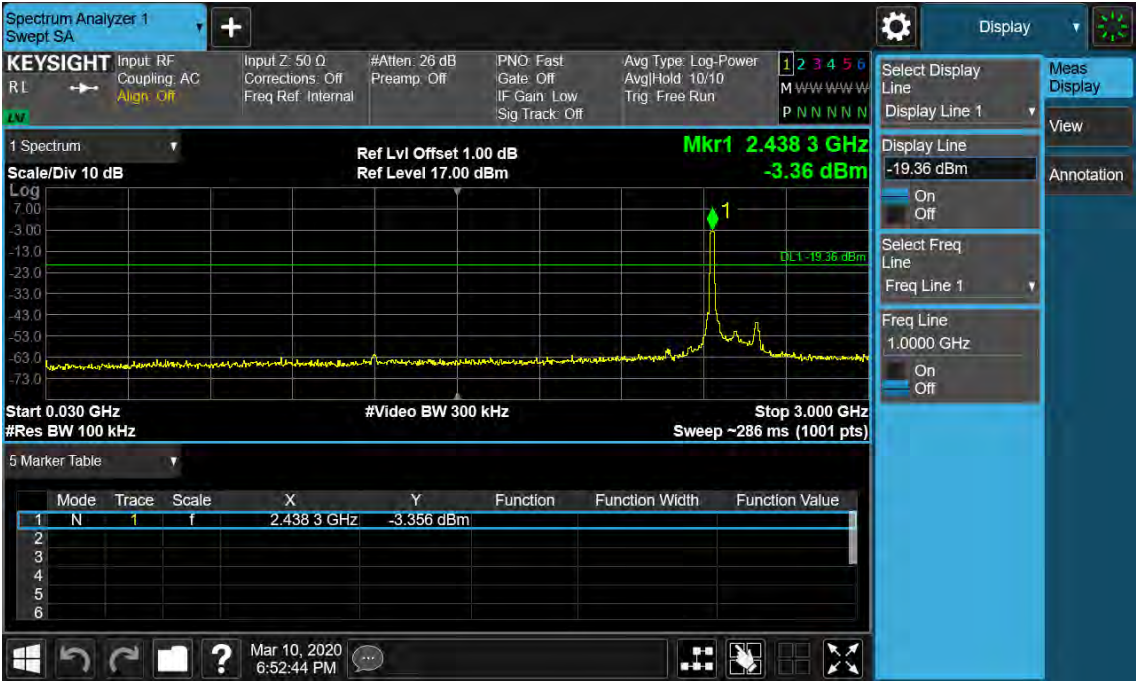
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Conducted spurious emissions 30MHz-25GHz



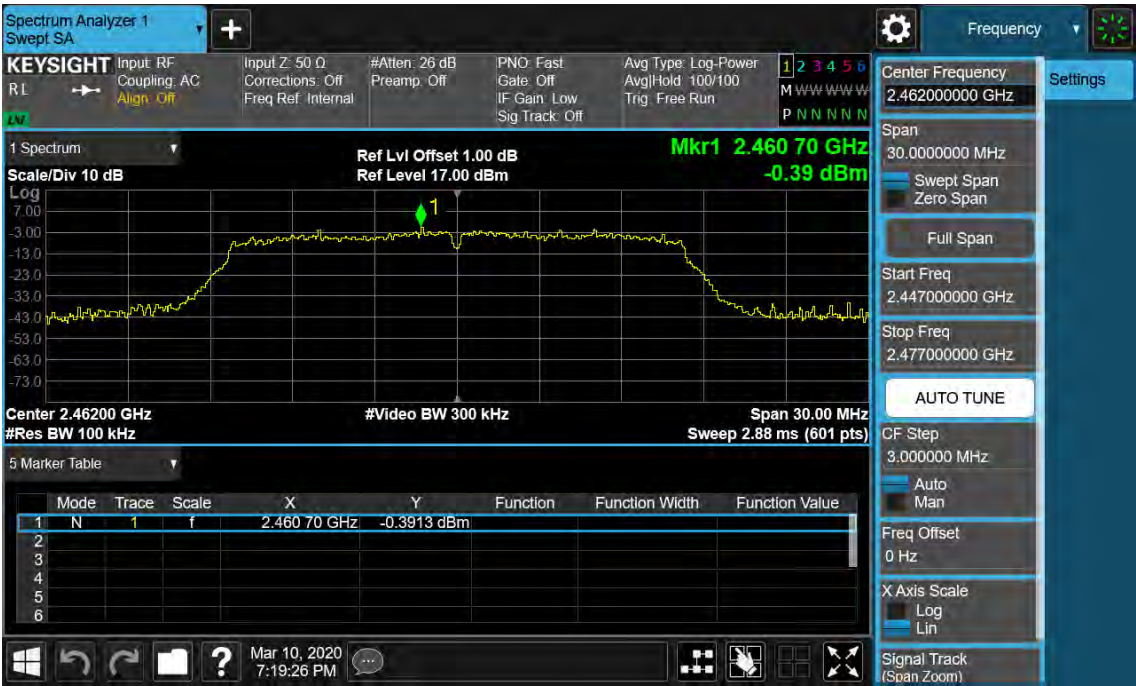
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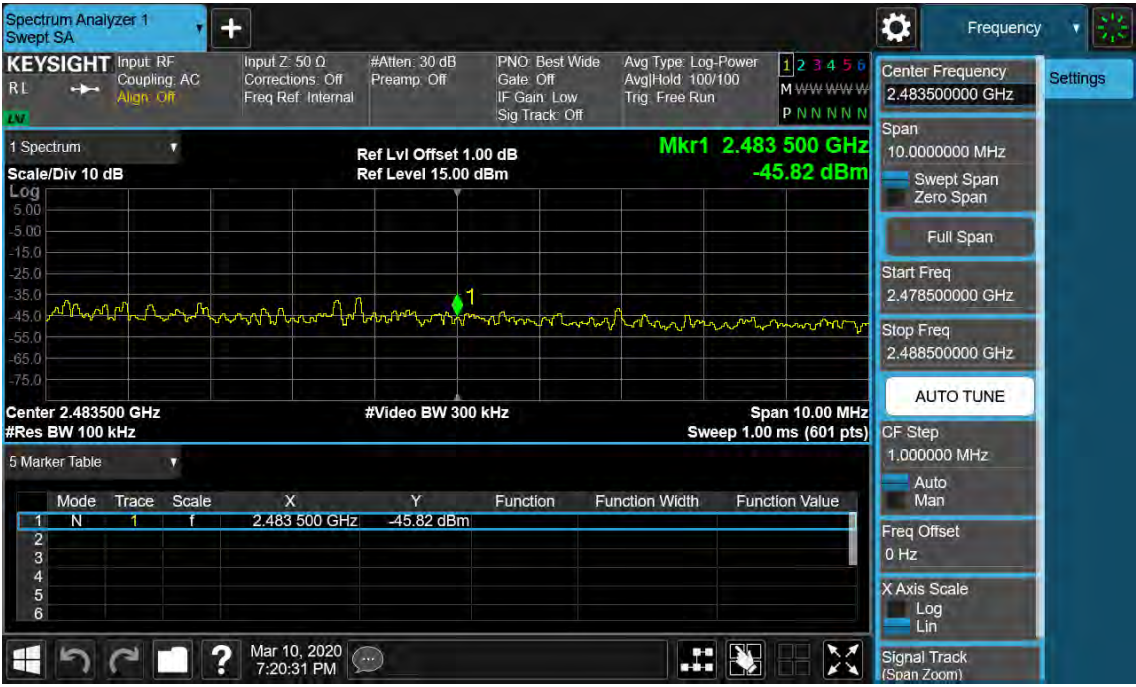
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Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



Band Edge



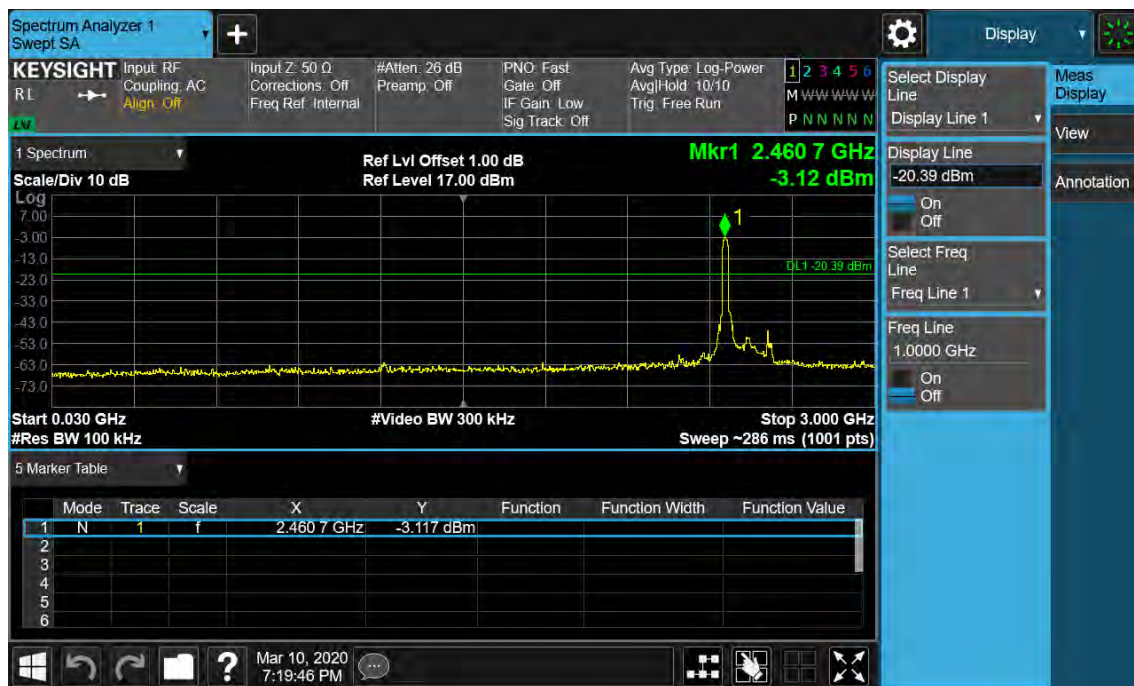
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Conducted spurious emissions 30MHz-25GHz



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Date: 2020-4-18

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Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



Band Edge



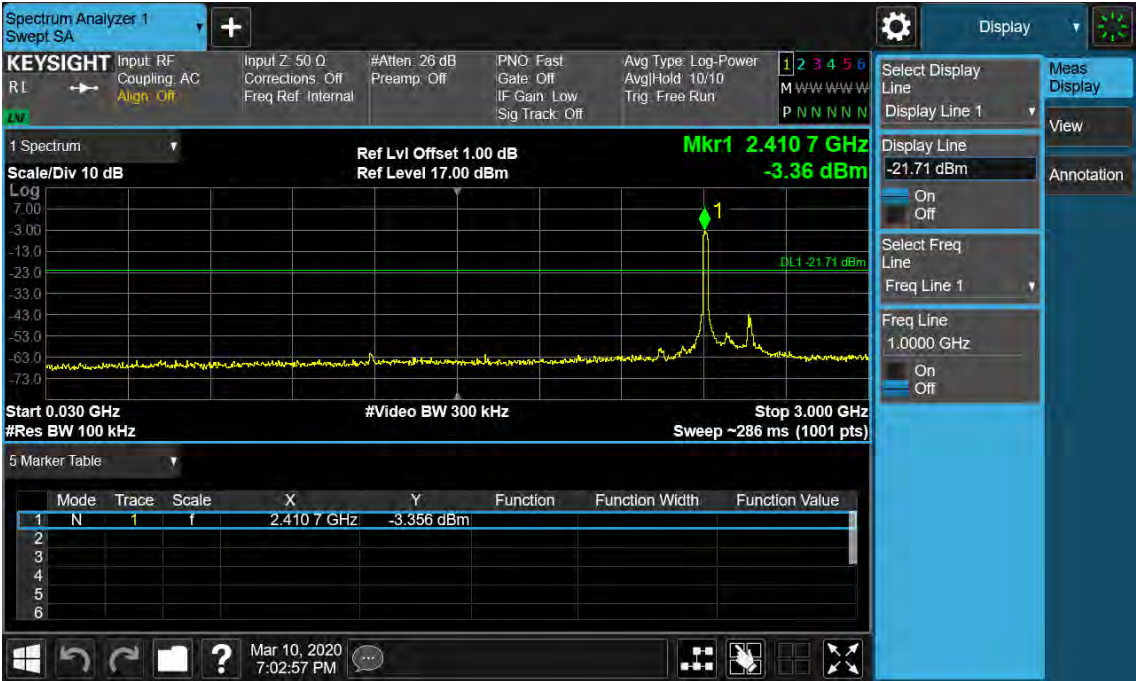
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Report No.: SHE20010035-01AE

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Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE20010035-01AE

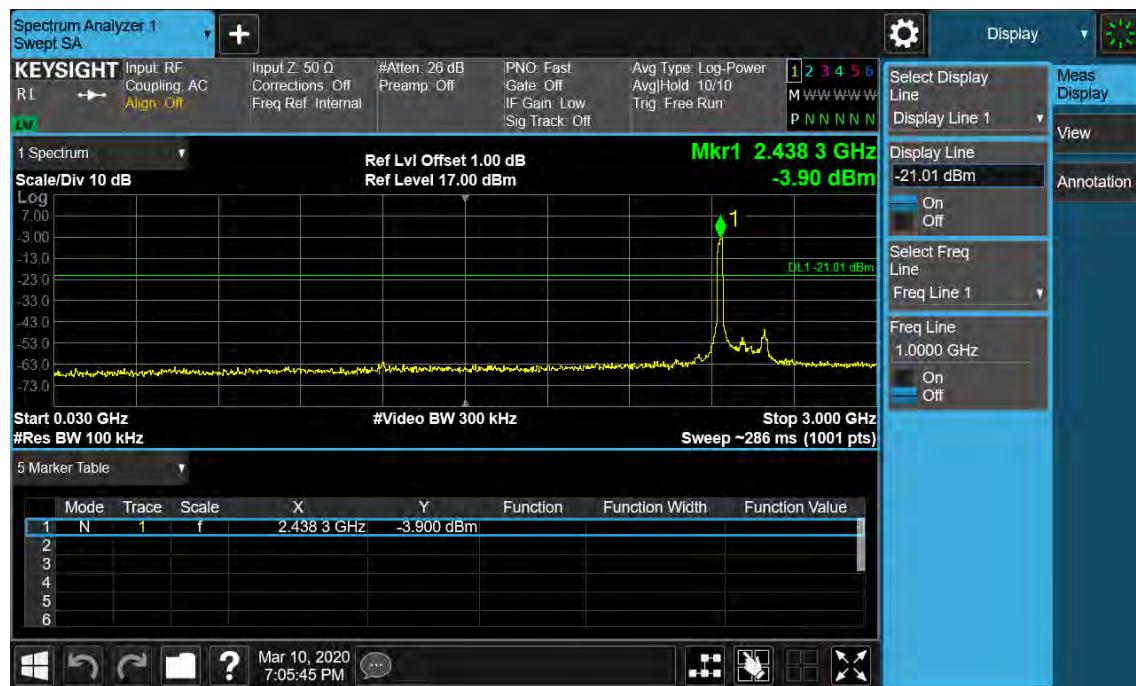
Date: 2020-4-18

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Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



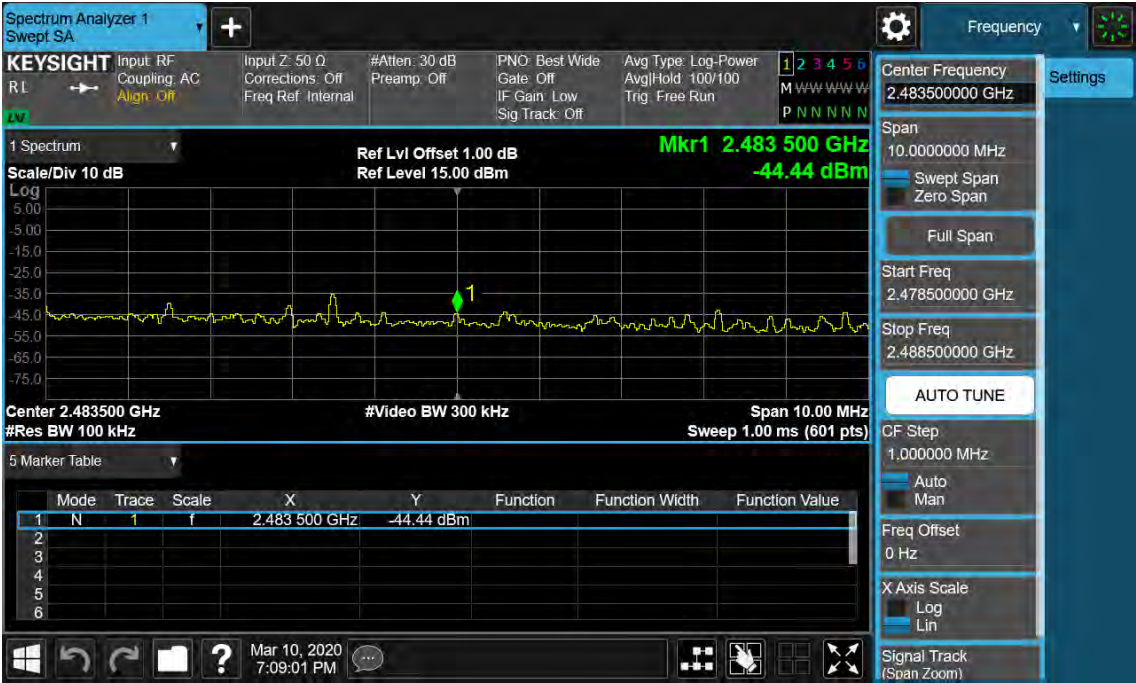
TEST REPORT

Report No.: SHE20010035-01AE

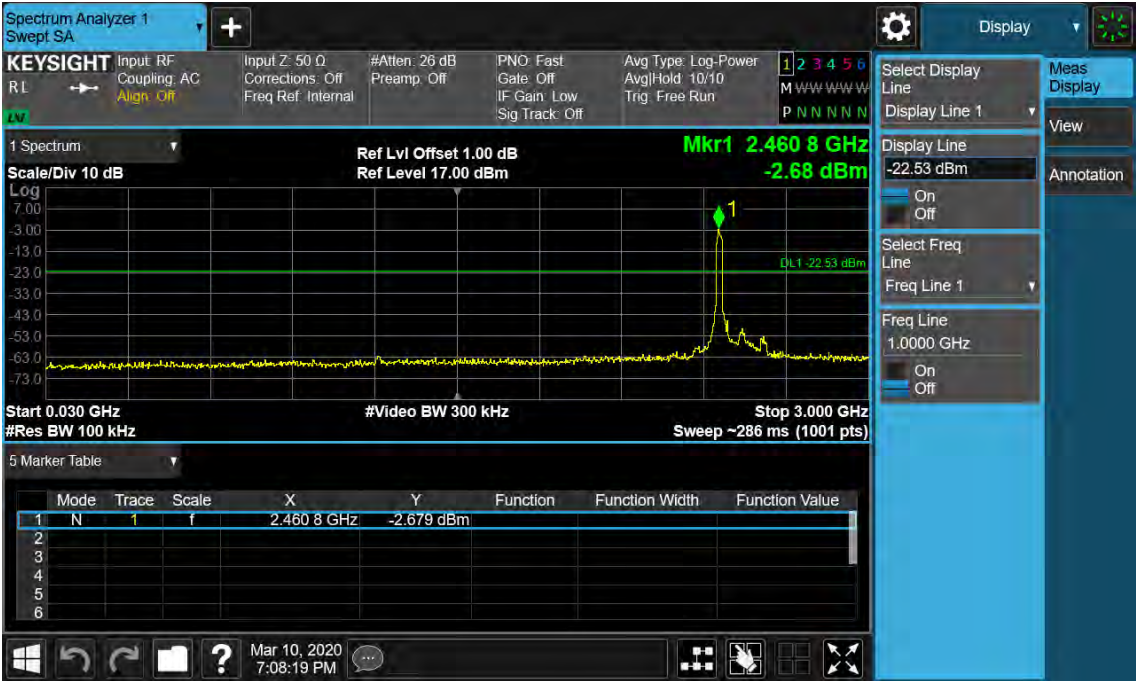
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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4.1.6 Spurious Emission

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209
RSS-247 5.5
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 52%

For details refer to following test plot.

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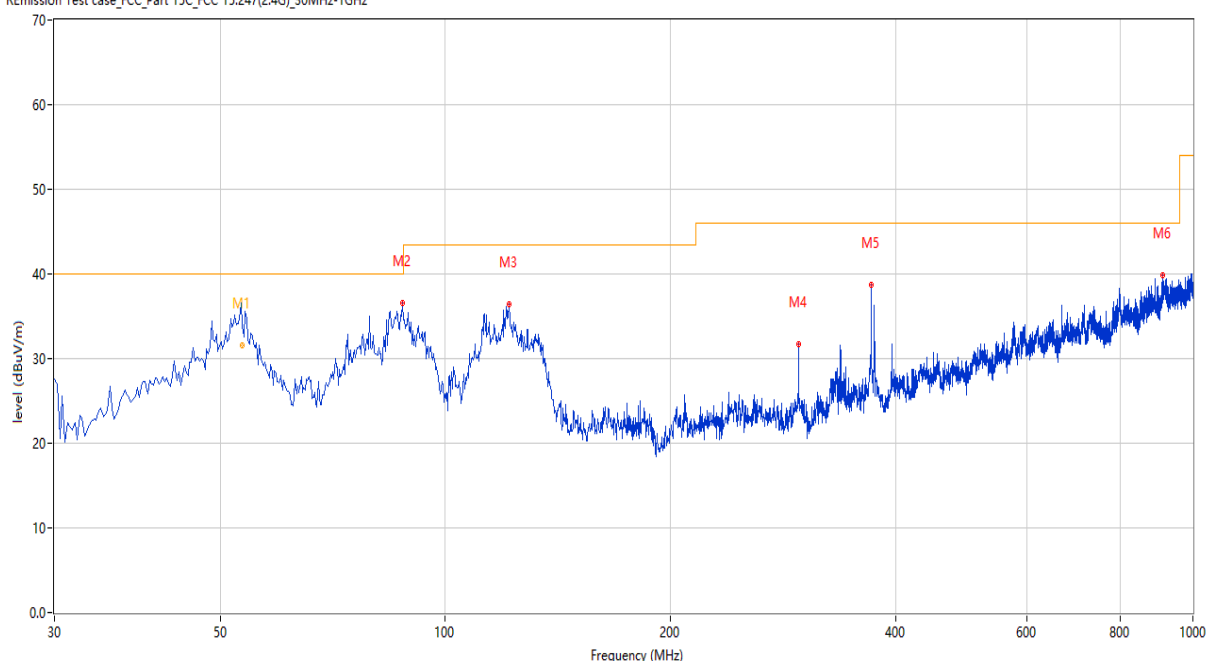
Notes:

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT is working in the Normal link mode below 1 GHz.

Figure 28: Spurious Emission, 30MHz – 1GHz, Normal Link Mode

30MHz-1GHz, Horizontal

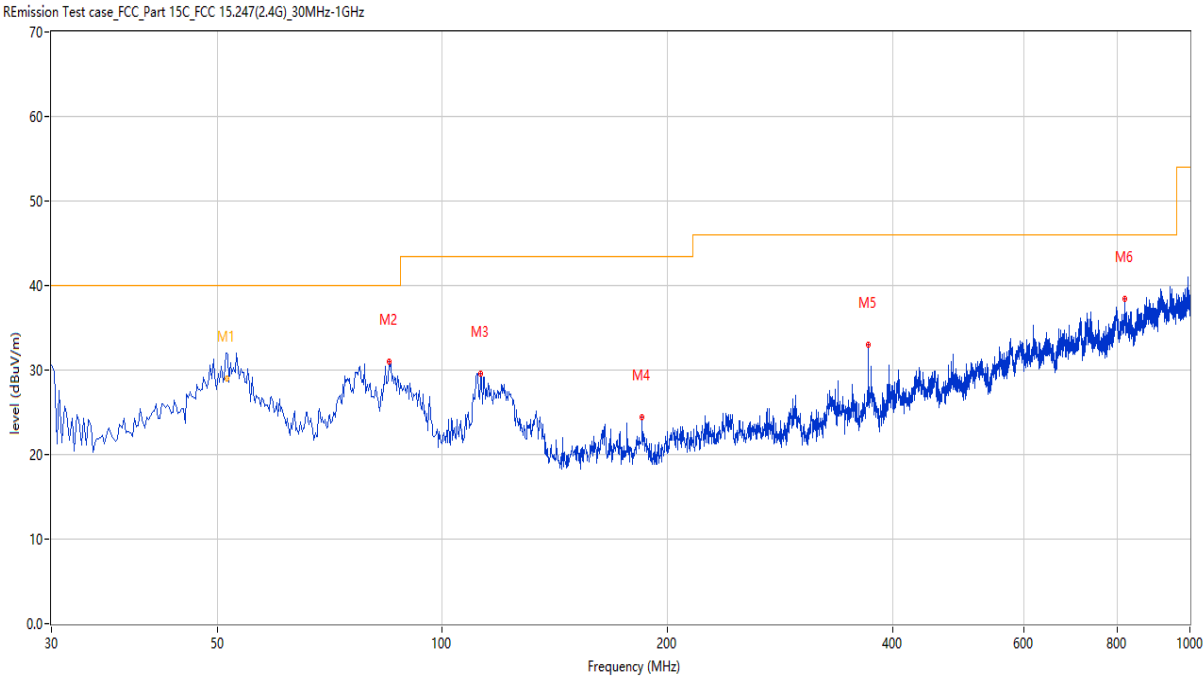
REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.521	37.02	-25.16	40.0	-2.98	Peak	48.80	328	Horizontal	Pass
1*	53.521	31.51	-25.16	40.0	-8.49	QP	48.80	328	Horizontal	Pass
2	87.701	36.51	-27.99	40.0	-3.49	Peak	113.50	100	Horizontal	Pass
3	121.642	36.38	-27.67	43.5	-7.12	Peak	2.60	100	Horizontal	Pass
4	296.926	31.69	-23.82	46.0	-14.31	Peak	53.20	100	Horizontal	Pass
5	371.112	38.67	-21.93	46.0	-7.33	Peak	257.10	100	Horizontal	Pass
6	911.752	39.80	-10.41	46.0	-6.20	Peak	135.50	100	Horizontal	Pass

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30MHz-1GHz, Vertical



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.506	34.75	-24.57	40.0	-5.25	Peak	129.40	284	Vertical	Pass
1*	51.506	29.06	-24.57	40.0	-10.94	QP	129.40	284	Vertical	Pass
2	84.791	31.01	-27.91	40.0	-8.99	Peak	185.90	100	Vertical	Pass
3	112.672	29.60	-27.18	43.5	-13.90	Peak	194.50	100	Vertical	Pass
4	184.919	24.44	-27.63	43.5	-19.06	Peak	185.90	100	Vertical	Pass
5	371.112	32.94	-21.93	46.0	-13.06	Peak	211.90	100	Vertical	Pass
6	818.898	38.37	-12.76	46.0	-7.63	Peak	356.00	100	Vertical	Pass

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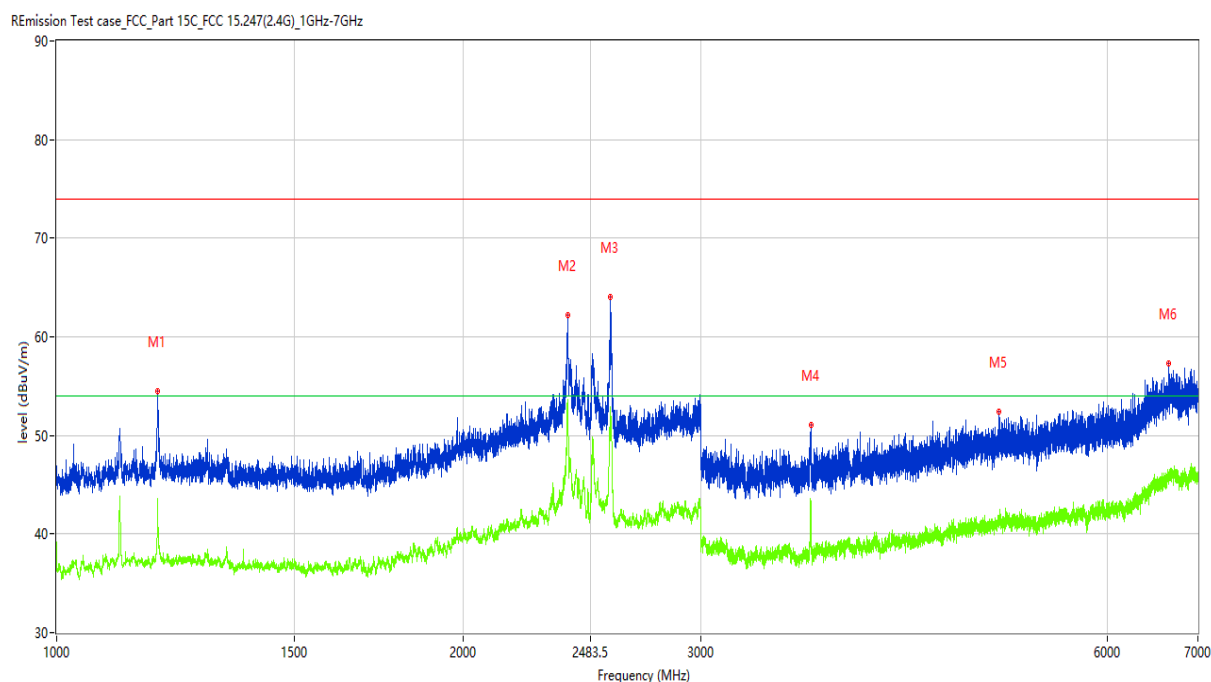
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Figure 29: Spurious Emission, 1GHz – 10th Harmonic, 802.11b, 2412MHz

1GHz-7GHz, Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.977	54.49	-3.88	74.0	-19.51	Peak	51.70	100	Horizontal	Pass
1**	1187.977	43.60	-3.88	54.0	-10.40	AV	51.70	100	Horizontal	Pass
2	2391.076	62.17	4.69	74.0	-11.83	Peak	56.50	100	Horizontal	Pass
2**	2391.076	51.27	4.69	54.0	-2.73	AV	56.50	100	Horizontal	Pass
3	2571.304	64.06	-0.07	74.0	-9.94	Peak	44.60	100	Horizontal	Pass
3**	2571.304	52.94	-0.07	54.0	-1.06	AV	44.60	100	Horizontal	Pass
4	3618.423	51.11	-0.90	74.0	-22.89	Peak	0.00	100	Horizontal	Pass
4**	3618.423	43.18	-0.90	54.0	-10.82	AV	0.00	100	Horizontal	Pass
5	4988.751	52.39	1.62	74.0	-21.61	Peak	0.00	100	Horizontal	Pass
5**	4988.751	41.65	1.62	54.0	-12.35	AV	0.00	100	Horizontal	Pass
6	6662.542	57.30	5.54	74.0	-16.70	Peak	0.00	100	Horizontal	Pass
6**	6662.542	46.32	5.54	54.0	-7.68	AV	0.00	100	Horizontal	Pass

TEST REPORT

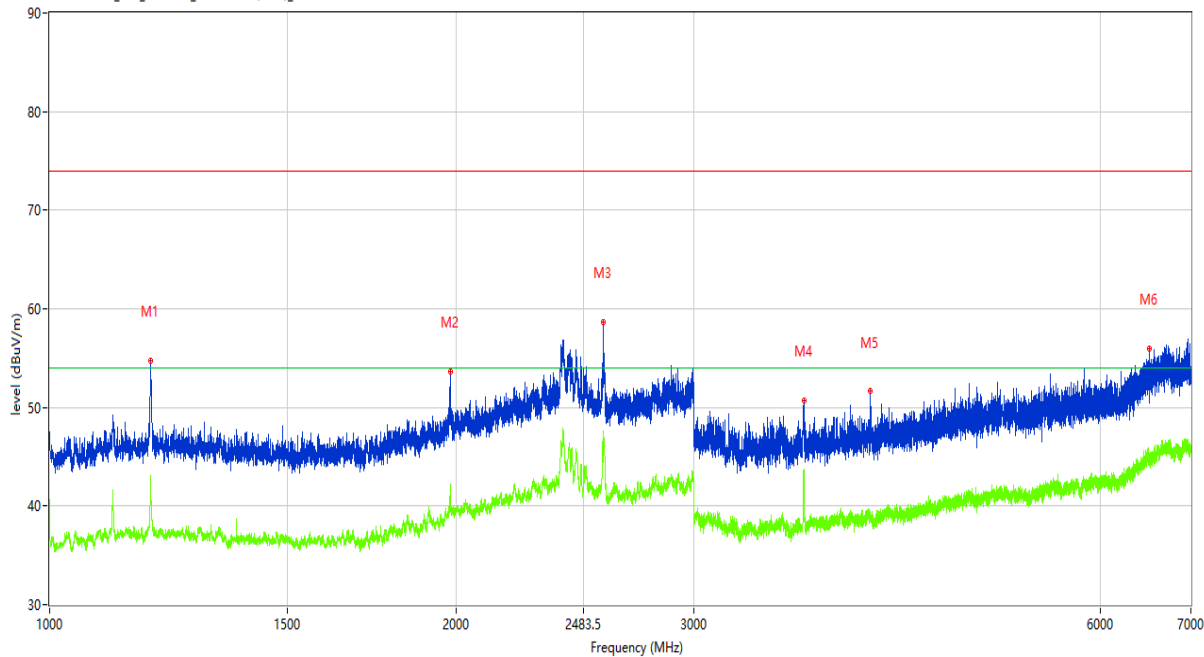
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1188.226	54.76	-3.85	74.0	-19.24	Peak	321.60	100	Vertical	Pass
1**	1188.226	43.06	-3.85	54.0	-10.94	AV	321.60	100	Vertical	Pass
2	1979.628	53.65	-2.45	74.0	-20.35	Peak	326.80	100	Vertical	Pass
2**	1979.628	42.23	-2.45	54.0	-11.77	AV	326.80	100	Vertical	Pass
3	2570.804	58.66	-0.04	74.0	-15.34	Peak	354.90	100	Vertical	Pass
3**	2570.804	47.61	-0.04	54.0	-6.39	AV	354.90	100	Vertical	Pass
4	3617.923	50.72	-0.90	74.0	-23.28	Peak	0.00	100	Vertical	Pass
4**	3617.923	42.89	-0.90	54.0	-11.11	AV	0.00	100	Vertical	Pass
5	4050.869	51.61	-0.09	74.0	-22.39	Peak	0.00	100	Vertical	Pass
5**	4050.869	39.09	-0.09	54.0	-14.91	AV	0.00	100	Vertical	Pass
6	6519.060	55.94	4.85	74.0	-18.06	Peak	0.00	100	Vertical	Pass
6**	6519.060	45.05	4.85	54.0	-8.95	AV	0.00	100	Vertical	Pass

TEST REPORT

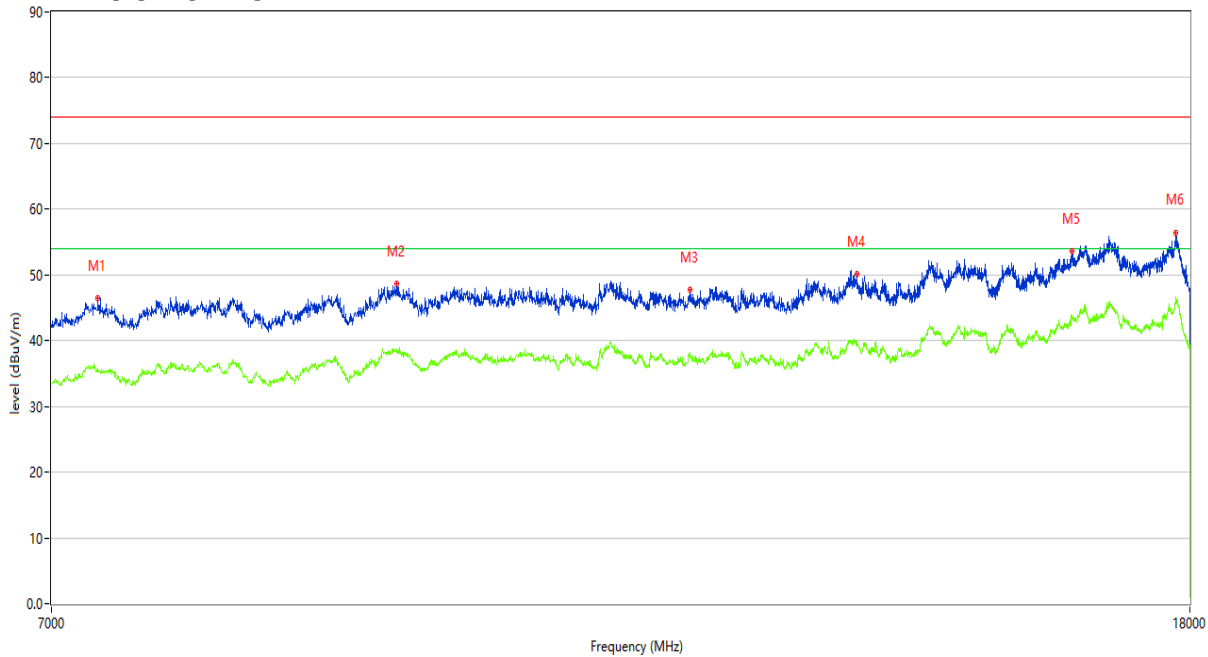
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7274.931	46.48	2.88	74.0	-27.52	Peak	90.50	100	Horizontal	Pass
1**	7274.931	35.76	2.88	54.0	-18.24	AV	90.50	100	Horizontal	Pass
2	9323.169	48.60	9.44	74.0	-25.40	Peak	135.90	100	Horizontal	Pass
2**	9323.169	38.78	9.44	54.0	-15.22	AV	135.90	100	Horizontal	Pass
3	11888.278	47.72	9.86	74.0	-26.28	Peak	359.30	100	Horizontal	Pass
3**	11888.278	37.89	9.86	54.0	-16.11	AV	359.30	100	Horizontal	Pass
4	13653.337	50.06	13.91	74.0	-23.94	Peak	358.30	100	Horizontal	Pass
4**	13653.337	39.86	13.91	54.0	-14.14	AV	358.30	100	Horizontal	Pass
5	16320.170	53.65	18.87	74.0	-20.35	Peak	26.80	100	Horizontal	Pass
5**	16320.170	43.99	18.87	54.0	-10.01	AV	26.80	100	Horizontal	Pass
6	17785.554	56.46	21.17	74.0	-17.54	Peak	144.80	100	Horizontal	Pass
6**	17785.554	45.65	21.17	54.0	-8.35	AV	144.80	100	Horizontal	Pass

TEST REPORT

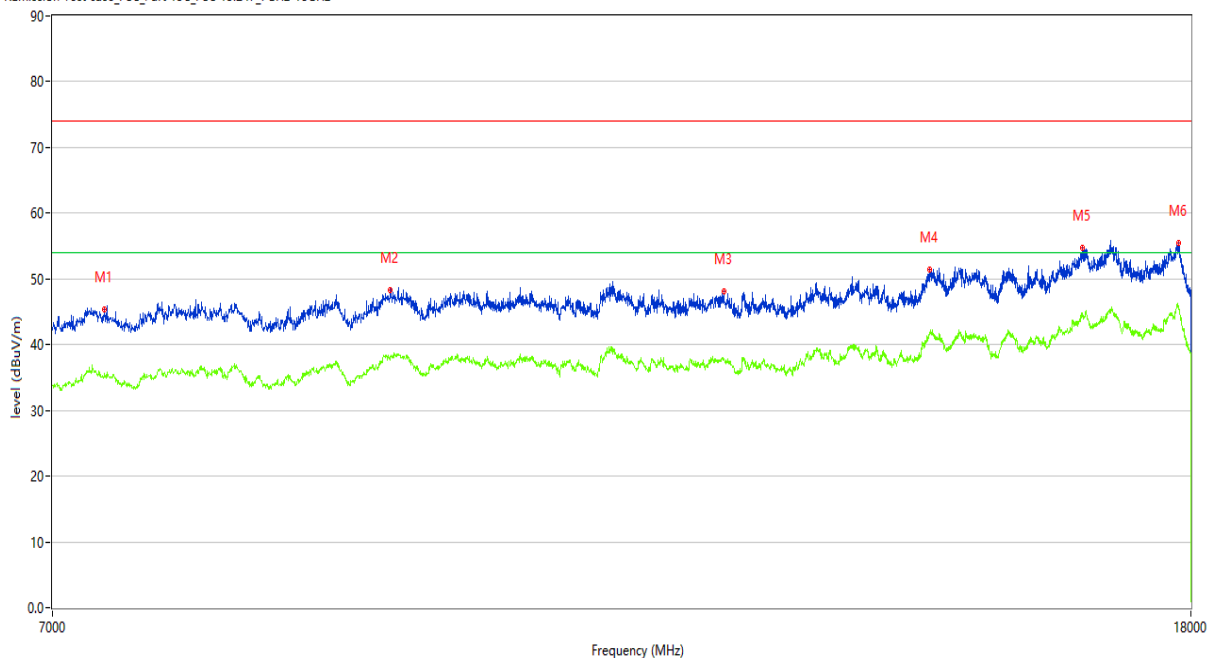
Report No.: SHE20010035-01AE

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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7291.427	43.99	2.93	74.0	-30.01	Peak	68.90	100	Vertical	Pass
1**	7291.427	35.01	2.93	54.0	-18.99	AV	68.90	100	Vertical	Pass
2	9262.684	48.29	8.74	74.0	-25.71	Peak	300.60	100	Vertical	Pass
2**	9262.684	38.19	8.74	54.0	-15.81	AV	300.60	100	Vertical	Pass
3	12220.945	48.13	10.94	74.0	-25.87	Peak	260.80	100	Vertical	Pass
3**	12220.945	37.73	10.94	54.0	-16.27	AV	260.80	100	Vertical	Pass
4	14494.626	51.42	16.95	74.0	-22.58	Peak	6.80	100	Vertical	Pass
4**	14494.626	41.85	16.95	54.0	-12.15	AV	6.80	100	Vertical	Pass
5	16449.388	54.71	19.79	74.0	-19.29	Peak	11.20	100	Vertical	Pass
5**	16449.388	44.30	19.79	54.0	-9.70	AV	11.20	100	Vertical	Pass
6	17815.796	55.46	20.50	74.0	-18.54	Peak	59.60	100	Vertical	Pass
6**	17815.796	45.60	20.50	54.0	-8.40	AV	59.60	100	Vertical	Pass

TEST REPORT

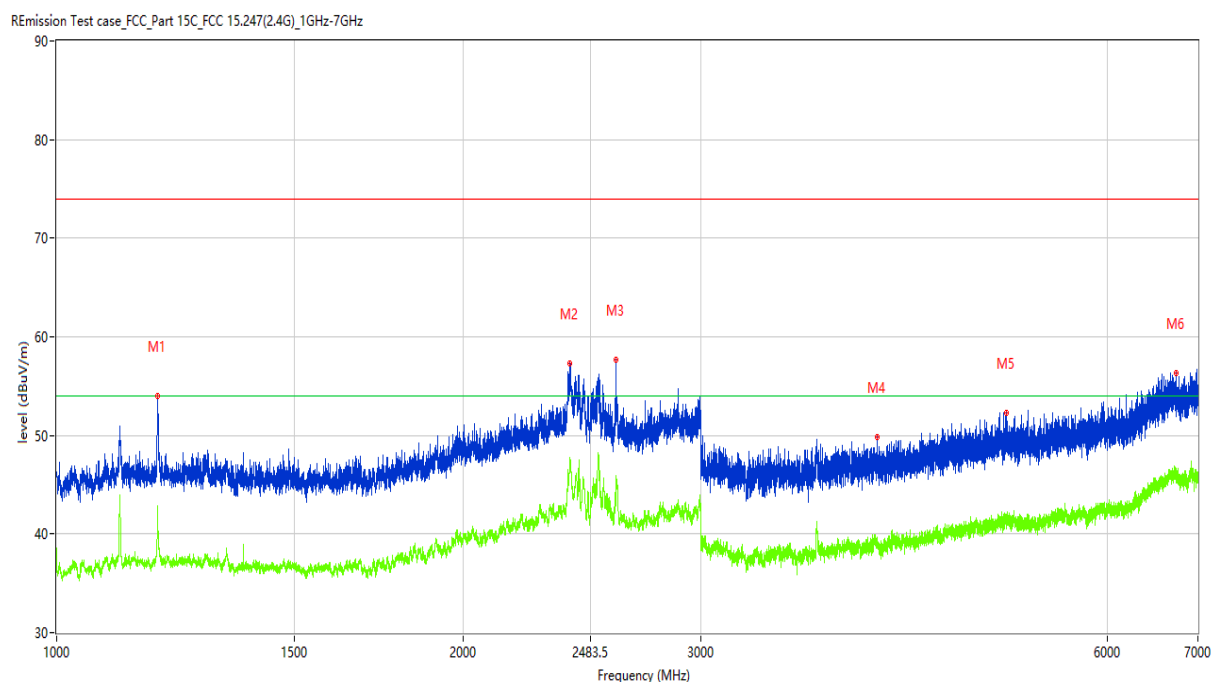
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Figure 30: Spurious Emission, 1GHz – 10th Harmonic, 802.11b, 2437MHz

1GHz-7GHz, Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.977	54.05	-3.88	74.0	-19.95	Peak	43.80	100	Horizontal	Pass
1**	1187.977	42.84	-3.88	54.0	-11.16	AV	43.80	100	Horizontal	Pass
2	2400.325	57.32	5.36	74.0	-16.68	Peak	24.80	100	Horizontal	Pass
2**	2400.325	47.67	5.36	54.0	-6.33	AV	24.80	100	Horizontal	Pass
3	2596.300	57.64	-0.27	74.0	-16.36	Peak	29.70	100	Horizontal	Pass
3**	2596.300	45.96	-0.27	54.0	-8.04	AV	29.70	100	Horizontal	Pass
4	4050.869	49.80	-0.09	74.0	-24.20	Peak	0.00	100	Horizontal	Pass
4**	4050.869	39.31	-0.09	54.0	-14.69	AV	0.00	100	Horizontal	Pass
5	5049.744	52.33	1.71	74.0	-21.67	Peak	0.00	100	Horizontal	Pass
5**	5049.744	42.02	1.71	54.0	-11.98	AV	0.00	100	Horizontal	Pass
6	6749.031	56.30	5.68	74.0	-17.70	Peak	0.00	100	Horizontal	Pass
6**	6749.031	46.52	5.68	54.0	-7.48	AV	0.00	100	Horizontal	Pass

TEST REPORT

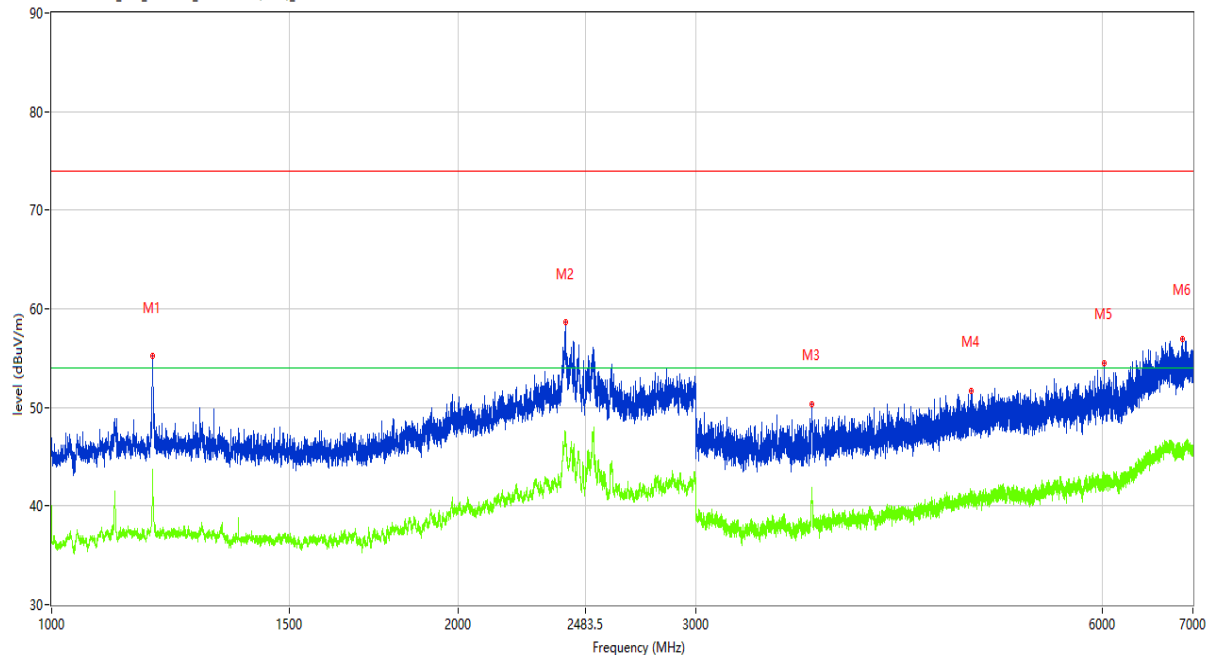
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.477	55.18	-3.93	74.0	-18.82	Peak	349.60	100	Vertical	Pass
1**	1187.477	42.47	-3.93	54.0	-11.53	AV	349.60	100	Vertical	Pass
2	2400.825	58.60	5.34	74.0	-15.40	Peak	353.90	100	Vertical	Pass
2**	2400.825	47.48	5.34	54.0	-6.52	AV	353.90	100	Vertical	Pass
3	3653.918	50.33	-0.83	74.0	-23.67	Peak	0.00	100	Vertical	Pass
3**	3653.918	41.52	-0.83	54.0	-12.48	AV	0.00	100	Vertical	Pass
4	4796.775	51.64	1.06	74.0	-22.36	Peak	0.00	100	Vertical	Pass
4**	4796.775	41.56	1.06	54.0	-12.44	AV	0.00	100	Vertical	Pass
5	6021.622	54.49	2.59	74.0	-19.51	Peak	0.00	100	Vertical	Pass
5**	6021.622	43.10	2.59	54.0	-10.90	AV	0.00	100	Vertical	Pass
6	6878.015	56.94	5.68	74.0	-17.06	Peak	0.00	100	Vertical	Pass
6**	6878.015	46.25	5.68	54.0	-7.75	AV	0.00	100	Vertical	Pass

TEST REPORT

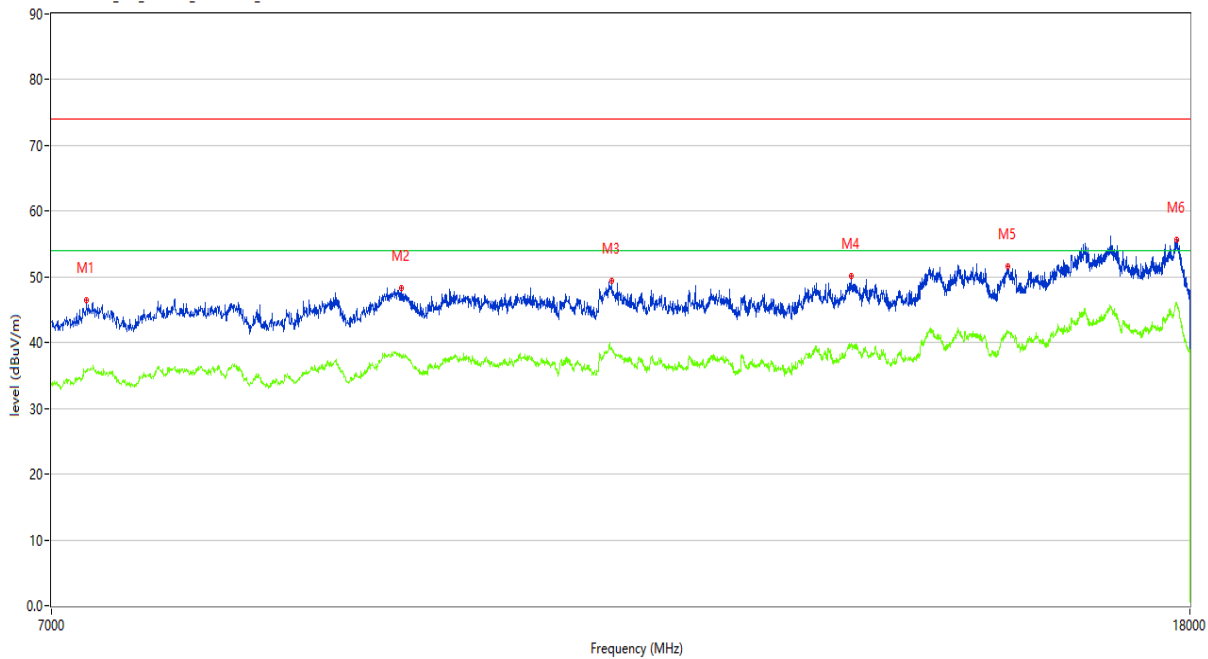
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7178.705	42.98	2.68	74.0	-31.02	Peak	343.20	100	Horizontal	Pass
1**	7178.705	34.30	2.68	54.0	-19.70	AV	343.20	100	Horizontal	Pass
2	9358.910	48.26	9.84	74.0	-25.74	Peak	23.10	100	Horizontal	Pass
2**	9358.910	37.64	9.84	54.0	-16.36	AV	23.10	100	Horizontal	Pass
3	11143.214	49.39	10.80	74.0	-24.61	Peak	0.00	100	Horizontal	Pass
3**	11143.214	39.32	10.80	54.0	-14.68	AV	0.00	100	Horizontal	Pass
4	13587.353	50.07	14.51	74.0	-23.93	Peak	50.30	100	Horizontal	Pass
4**	13587.353	39.66	14.51	54.0	-14.34	AV	50.30	100	Horizontal	Pass
5	15481.630	51.58	15.30	74.0	-22.42	Peak	168.70	100	Horizontal	Pass
5**	15481.630	41.70	15.30	54.0	-12.30	AV	168.70	100	Horizontal	Pass
6	17799.300	55.63	21.10	74.0	-18.37	Peak	231.20	100	Horizontal	Pass
6**	17799.300	46.07	21.10	54.0	-7.93	AV	231.20	100	Horizontal	Pass

TEST REPORT

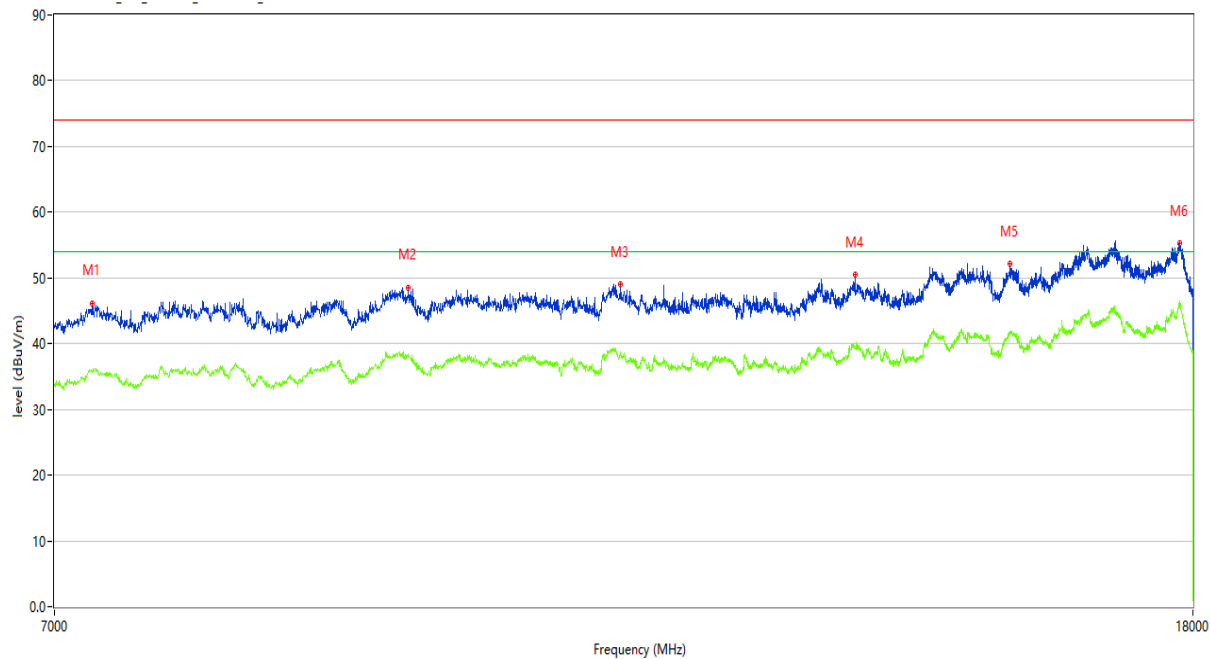
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7192.452	44.10	2.80	74.0	-29.90	Peak	336.70	100	Vertical	Pass
1**	7192.452	35.24	2.80	54.0	-18.76	AV	336.70	100	Vertical	Pass
2	9389.153	48.55	9.92	74.0	-25.45	Peak	97.60	100	Vertical	Pass
2**	9389.153	37.99	9.92	54.0	-16.01	AV	97.60	100	Vertical	Pass
3	11195.451	48.99	10.72	74.0	-25.01	Peak	128.40	100	Vertical	Pass
3**	11195.451	38.42	10.72	54.0	-15.58	AV	128.40	100	Vertical	Pass
4	13598.350	50.48	14.62	74.0	-23.52	Peak	89.00	100	Vertical	Pass
4**	13598.350	39.38	14.62	54.0	-14.62	AV	89.00	100	Vertical	Pass
5	15465.134	52.19	15.29	74.0	-21.81	Peak	273.10	100	Vertical	Pass
5**	15465.134	41.94	15.29	54.0	-12.06	AV	273.10	100	Vertical	Pass
6	17804.799	55.25	20.92	74.0	-18.75	Peak	30.60	100	Vertical	Pass
6**	17804.799	46.50	20.92	54.0	-7.50	AV	30.60	100	Vertical	Pass

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Report No.: SHE20010035-01AE

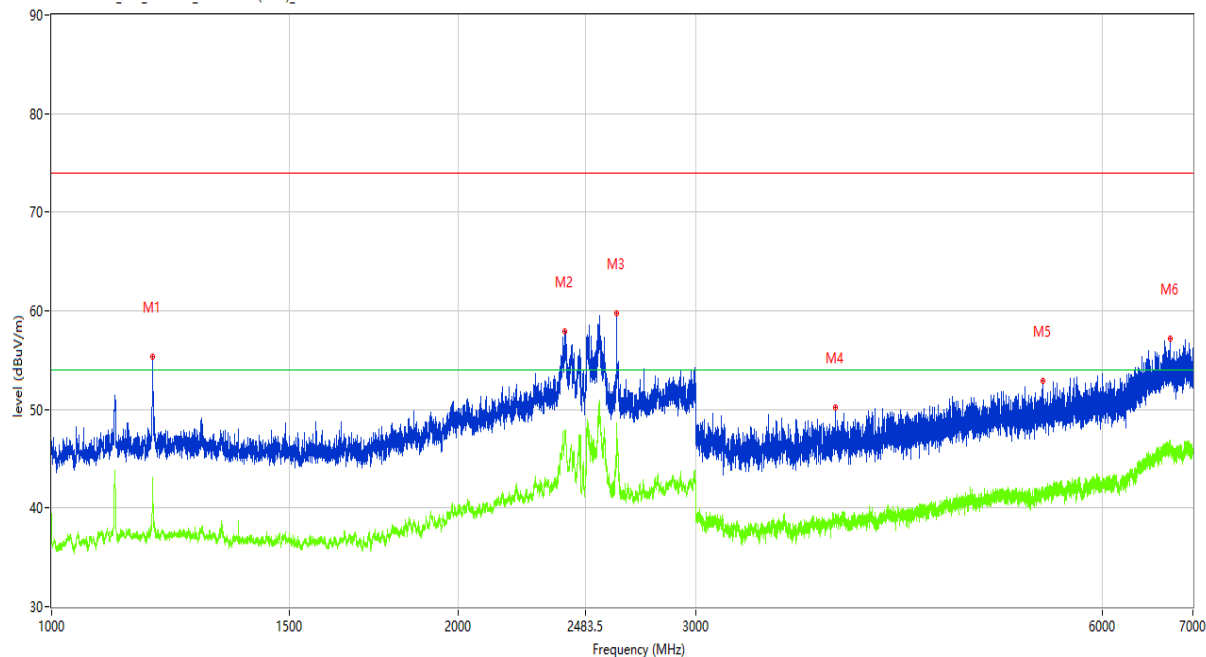
Date: 2020-4-18

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Figure 31: Spurious Emission, 1GHz – 10th Harmonic, 802.11b, 2462MHz

1GHz-7GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.727	55.33	-3.90	74.0	-18.67	Peak	53.10	100	Horizontal	Pass
1**	1187.727	43.16	-3.90	54.0	-10.84	AV	53.10	100	Horizontal	Pass
2	2399.575	57.90	5.39	74.0	-16.10	Peak	0.00	100	Horizontal	Pass
2**	2399.575	47.35	5.39	54.0	-6.65	AV	0.00	100	Horizontal	Pass
3	2620.797	59.72	0.81	74.0	-14.28	Peak	81.00	100	Horizontal	Pass
3**	2620.797	48.60	0.81	54.0	-5.40	AV	81.00	100	Horizontal	Pass
4	3806.899	50.24	-0.71	74.0	-23.76	Peak	0.00	100	Horizontal	Pass
4**	3806.899	39.46	-0.71	54.0	-14.54	AV	0.00	100	Horizontal	Pass
5	5424.197	52.88	1.53	74.0	-21.12	Peak	0.00	100	Horizontal	Pass
5**	5424.197	41.75	1.53	54.0	-12.25	AV	0.00	100	Horizontal	Pass
6	6737.033	57.19	5.75	74.0	-16.81	Peak	0.00	100	Horizontal	Pass
6**	6737.033	46.00	5.75	54.0	-8.00	AV	0.00	100	Horizontal	Pass

TEST REPORT

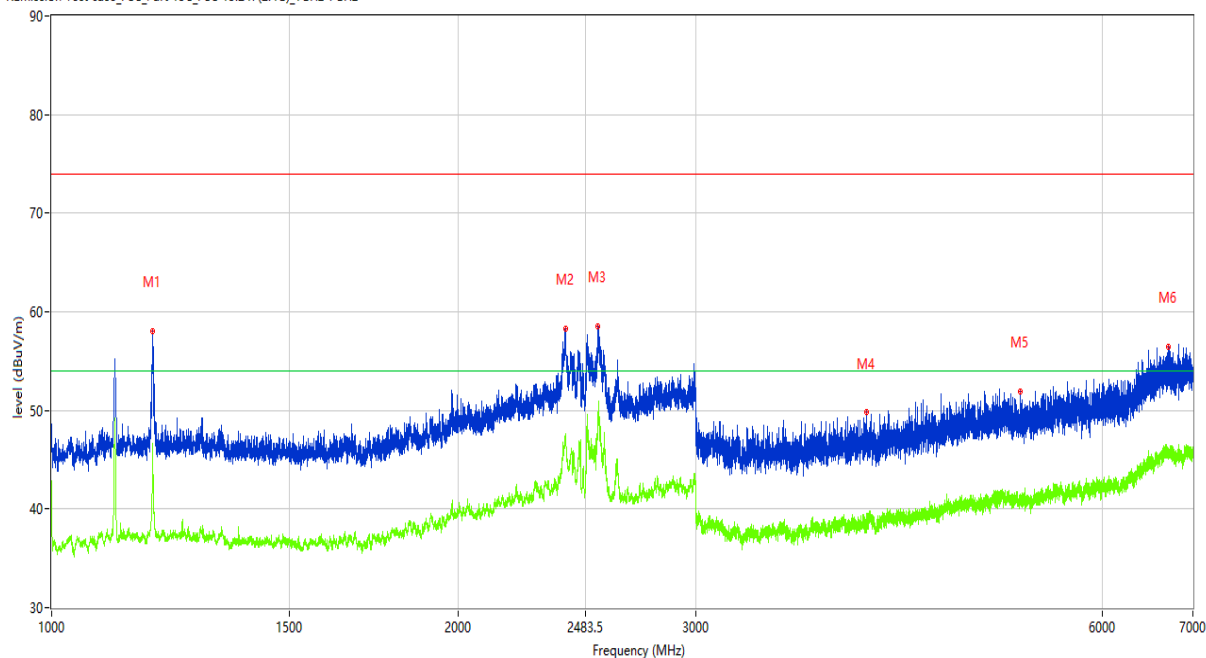
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1188.226	58.05	-3.85	74.0	-15.95	Peak	149.90	100	Vertical	Pass
1**	1188.226	45.78	-3.85	54.0	-8.22	AV	149.90	100	Vertical	Pass
2	2400.575	58.30	5.35	74.0	-15.70	Peak	0.20	100	Vertical	Pass
2**	2400.575	47.37	5.35	54.0	-6.63	AV	0.20	100	Vertical	Pass
3	2539.308	58.59	0.14	74.0	-15.41	Peak	103.80	100	Vertical	Pass
3**	2539.308	49.30	0.14	54.0	-4.70	AV	103.80	100	Vertical	Pass
4	4009.874	49.78	-0.13	74.0	-24.22	Peak	0.00	100	Vertical	Pass
4**	4009.874	37.93	-0.13	54.0	-16.07	AV	0.00	100	Vertical	Pass
5	5213.723	51.90	1.63	74.0	-22.10	Peak	0.00	100	Vertical	Pass
5**	5213.723	41.57	1.63	54.0	-12.43	AV	0.00	100	Vertical	Pass
6	6718.035	56.42	5.86	74.0	-17.58	Peak	0.00	100	Vertical	Pass
6**	6718.035	45.81	5.86	54.0	-8.19	AV	0.00	100	Vertical	Pass

TEST REPORT

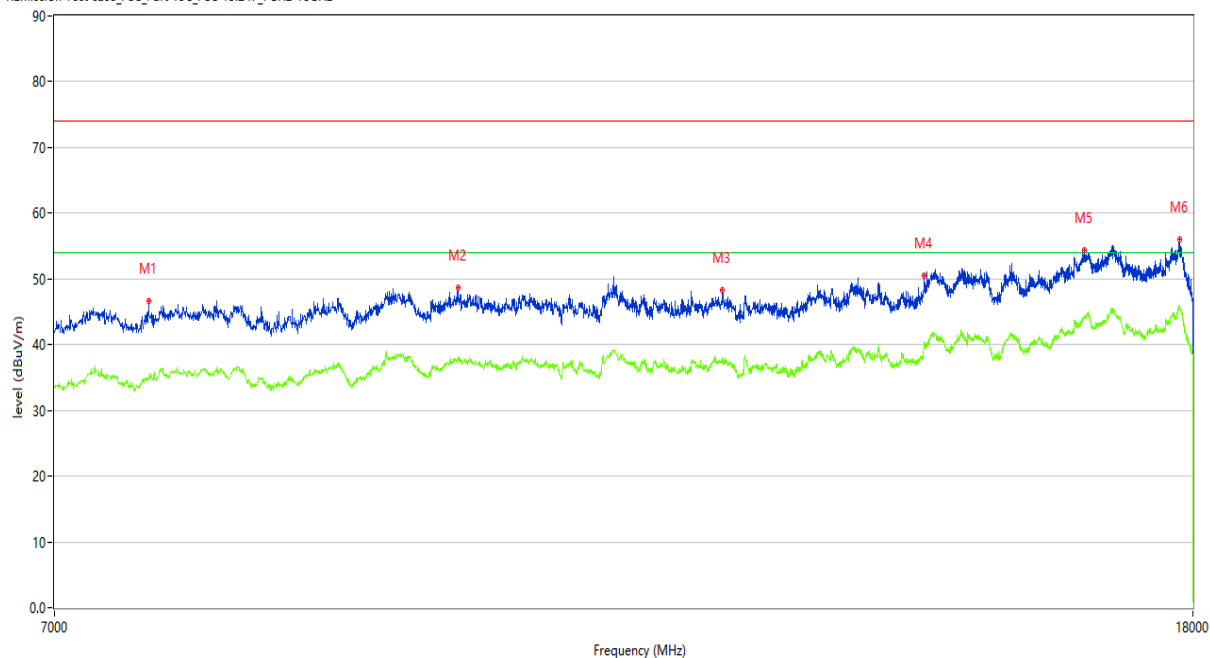
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7569.108	46.62	3.27	74.0	-27.38	Peak	26.80	100	Horizontal	Pass
1**	7569.108	34.71	3.27	54.0	-19.29	AV	26.80	100	Horizontal	Pass
2	9782.304	48.64	9.65	74.0	-25.36	Peak	179.40	100	Horizontal	Pass
2**	9782.304	38.22	9.65	54.0	-15.78	AV	179.40	100	Horizontal	Pass
3	12179.705	48.36	10.90	74.0	-25.64	Peak	192.40	100	Horizontal	Pass
3**	12179.705	37.73	10.90	54.0	-16.27	AV	192.40	100	Horizontal	Pass
4	14403.899	50.42	15.01	74.0	-23.58	Peak	332.70	100	Horizontal	Pass
4**	14403.899	39.50	15.01	54.0	-14.50	AV	332.70	100	Horizontal	Pass
5	16454.886	54.31	19.90	74.0	-19.69	Peak	0.00	100	Horizontal	Pass
5**	16454.886	44.24	19.90	54.0	-9.76	AV	0.00	100	Horizontal	Pass
6	17799.300	56.01	21.10	74.0	-17.99	Peak	255.60	100	Horizontal	Pass
6**	17799.300	45.69	21.10	54.0	-8.31	AV	255.60	100	Horizontal	Pass

TEST REPORT

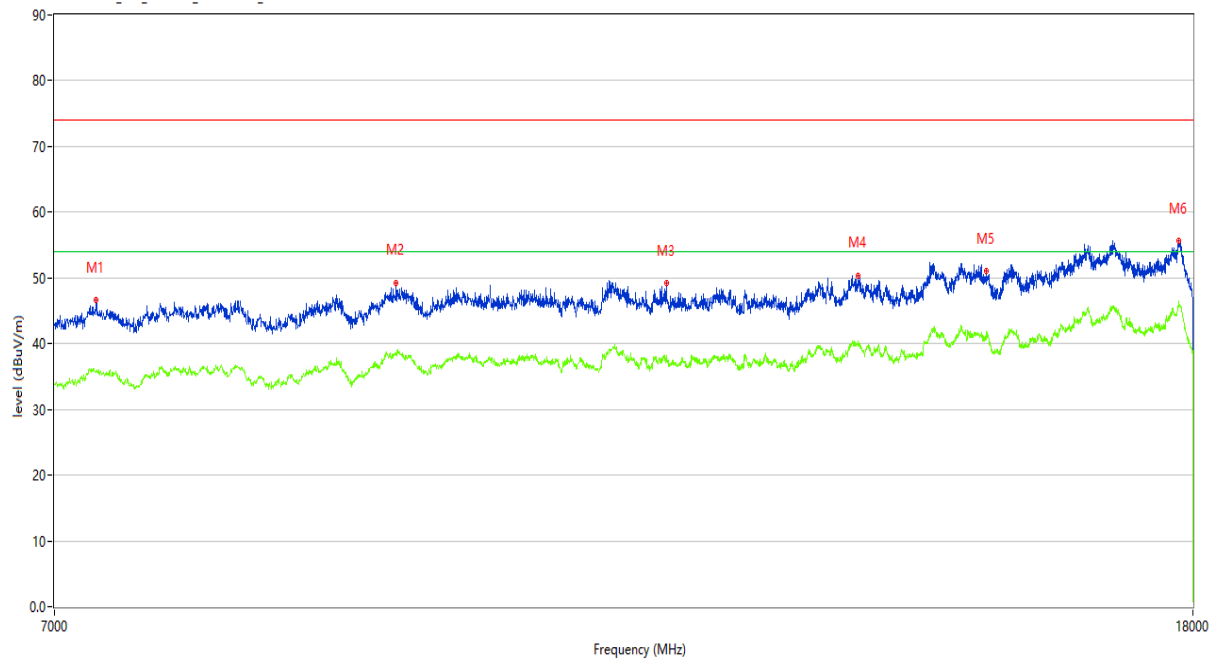
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7225.444	45.55	2.83	74.0	-28.45	Peak	239.70	100	Vertical	Pass
1**	7225.444	36.03	2.83	54.0	-17.97	AV	239.70	100	Vertical	Pass
2	9295.676	49.30	9.07	74.0	-24.70	Peak	80.40	100	Vertical	Pass
2**	9295.676	38.65	9.07	54.0	-15.35	AV	80.40	100	Vertical	Pass
3	11629.843	49.23	11.11	74.0	-24.77	Peak	129.60	100	Vertical	Pass
3**	11629.843	38.29	11.11	54.0	-15.71	AV	129.60	100	Vertical	Pass
4	13636.841	50.26	14.13	74.0	-23.74	Peak	266.50	100	Vertical	Pass
4**	13636.841	40.47	14.13	54.0	-13.53	AV	266.50	100	Vertical	Pass
5	15162.709	51.03	15.28	74.0	-22.97	Peak	98.30	100	Vertical	Pass
5**	15162.709	41.82	15.28	54.0	-12.18	AV	98.30	100	Vertical	Pass
6	17796.551	55.61	21.12	74.0	-18.39	Peak	355.30	100	Vertical	Pass
6**	17796.551	46.26	21.12	54.0	-7.74	AV	355.30	100	Vertical	Pass

TEST REPORT

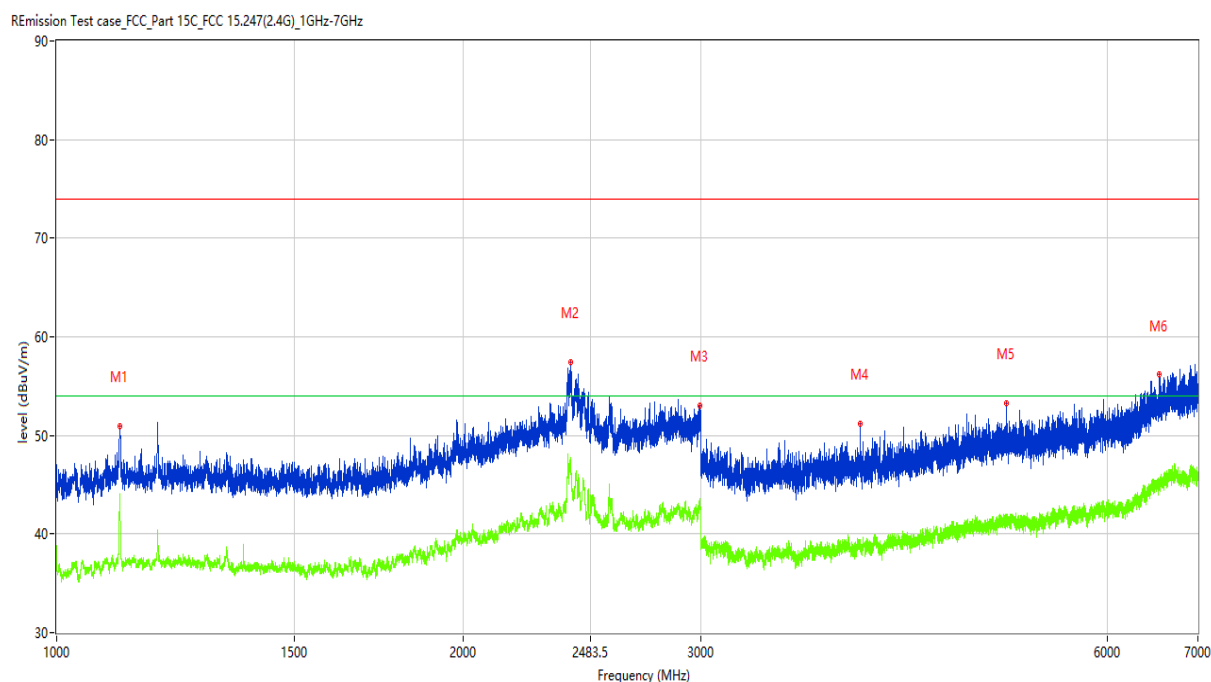
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Figure 32: Spurious Emission, 1GHz – 10th Harmonic, 802.11g, 2412MHz

1GHz-7GHz, Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1113.736	51.00	-3.68	74.0	-23.00	Peak	0.00	100	Horizontal	Pass
1**	1113.736	44.12	-3.68	54.0	-9.88	AV	0.00	100	Horizontal	Pass
2	2402.825	57.47	5.26	74.0	-16.53	Peak	0.30	100	Horizontal	Pass
2**	2402.825	46.91	5.26	54.0	-7.09	AV	0.30	100	Horizontal	Pass
3	2994.251	53.02	2.80	74.0	-20.98	Peak	0.00	100	Horizontal	Pass
3**	2994.251	43.11	2.80	54.0	-10.89	AV	0.00	100	Horizontal	Pass
4	3934.883	51.20	-0.27	74.0	-22.80	Peak	0.00	100	Horizontal	Pass
4**	3934.883	38.98	-0.27	54.0	-15.02	AV	0.00	100	Horizontal	Pass
5	5046.744	53.32	1.71	74.0	-20.68	Peak	0.00	100	Horizontal	Pass
5**	5046.744	41.97	1.71	54.0	-12.03	AV	0.00	100	Horizontal	Pass
6	6558.555	56.14	4.84	74.0	-17.86	Peak	0.00	100	Horizontal	Pass
6**	6558.555	45.22	4.84	54.0	-8.78	AV	0.00	100	Horizontal	Pass

TEST REPORT

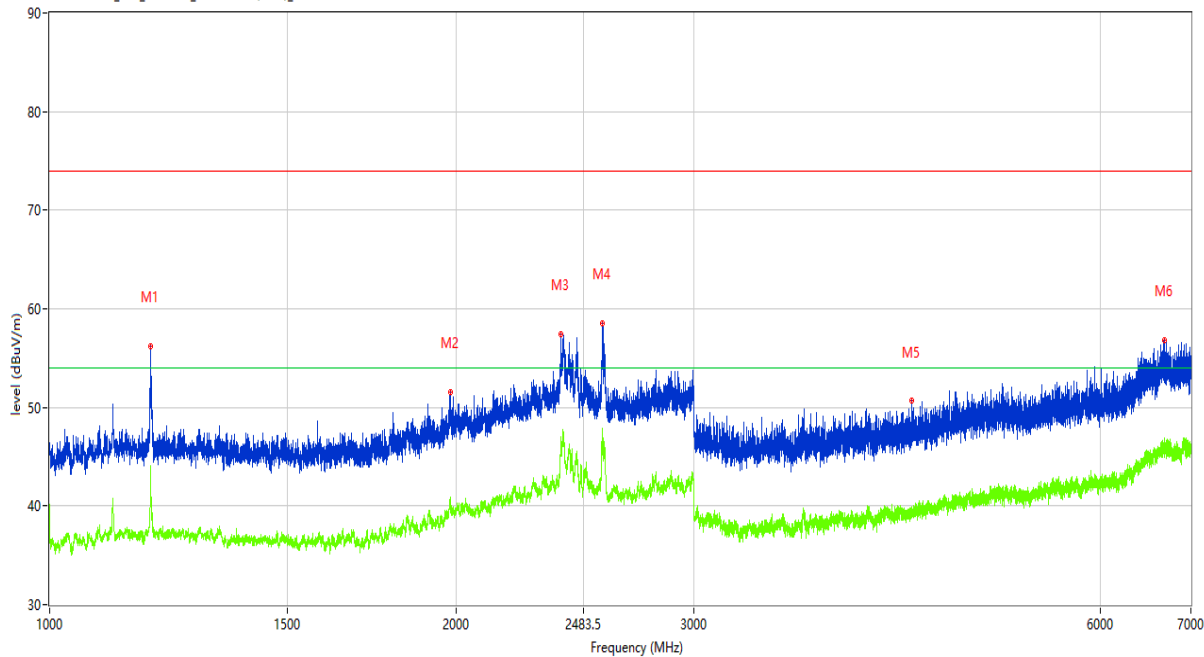
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.477	56.19	-3.93	74.0	-17.81	Peak	349.60	100	Vertical	Pass
1**	1187.477	42.72	-3.93	54.0	-11.28	AV	349.60	100	Vertical	Pass
2	1979.628	51.58	-2.45	74.0	-22.42	Peak	353.90	100	Vertical	Pass
2**	1979.628	40.72	-2.45	54.0	-13.28	AV	353.90	100	Vertical	Pass
3	2391.576	57.49	5.00	74.0	-16.51	Peak	353.90	100	Vertical	Pass
3**	2391.576	46.87	5.00	54.0	-7.13	AV	353.90	100	Vertical	Pass
4	2567.804	58.52	0.10	74.0	-15.48	Peak	331.40	100	Vertical	Pass
4**	2567.804	45.24	0.10	54.0	-8.76	AV	331.40	100	Vertical	Pass
5	4348.831	50.64	0.16	74.0	-23.36	Peak	0.00	100	Vertical	Pass
5**	4348.831	39.46	0.16	54.0	-14.54	AV	0.00	100	Vertical	Pass
6	6694.538	56.83	5.91	74.0	-17.17	Peak	0.00	100	Vertical	Pass
6**	6694.538	46.89	5.91	54.0	-7.11	AV	0.00	100	Vertical	Pass

TEST REPORT

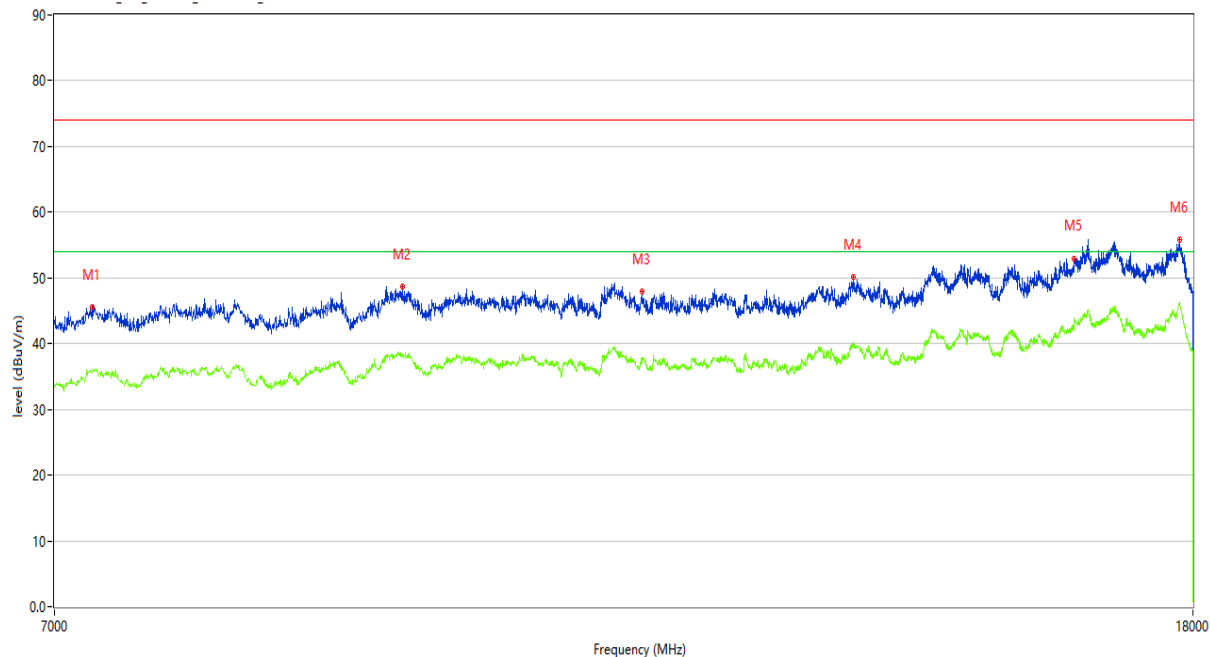
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7214.446	44.59	2.84	74.0	-29.41	Peak	13.40	100	Horizontal	Pass
1**	7214.446	35.85	2.84	54.0	-18.15	AV	13.40	100	Horizontal	Pass
2	9342.414	48.60	9.71	74.0	-25.40	Peak	140.00	100	Horizontal	Pass
2**	9342.414	37.96	9.71	54.0	-16.04	AV	140.00	100	Horizontal	Pass
3	11396.151	47.93	10.43	74.0	-26.07	Peak	325.70	100	Horizontal	Pass
3**	11396.151	37.83	10.43	54.0	-16.17	AV	325.70	100	Horizontal	Pass
4	13581.855	50.12	14.46	74.0	-23.88	Peak	208.80	100	Horizontal	Pass
4**	13581.855	39.73	14.46	54.0	-14.27	AV	208.80	100	Horizontal	Pass
5	16311.922	52.98	18.86	74.0	-21.02	Peak	360.00	100	Horizontal	Pass
5**	16311.922	43.90	18.86	54.0	-10.10	AV	360.00	100	Horizontal	Pass
6	17807.548	55.85	20.81	74.0	-18.15	Peak	95.30	100	Horizontal	Pass
6**	17807.548	45.82	20.81	54.0	-8.18	AV	95.30	100	Horizontal	Pass

TEST REPORT

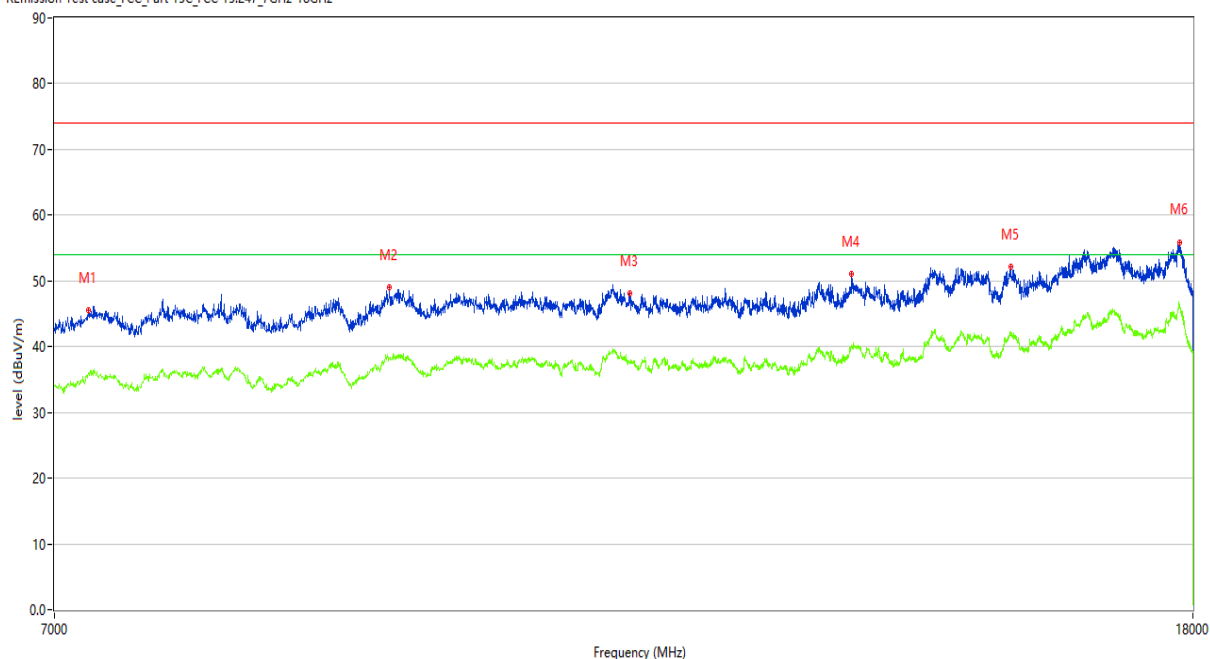
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7195.201	44.15	2.82	74.0	-29.85	Peak	0.00	100	Vertical	Pass
1**	7195.201	35.68	2.82	54.0	-18.32	AV	0.00	100	Vertical	Pass
2	9243.439	49.05	8.59	74.0	-24.95	Peak	324.90	100	Vertical	Pass
2**	9243.439	38.19	8.59	54.0	-15.81	AV	324.90	100	Vertical	Pass
3	11283.429	48.10	10.74	74.0	-25.90	Peak	129.20	100	Vertical	Pass
3**	11283.429	37.44	10.74	54.0	-16.56	AV	129.20	100	Vertical	Pass
4	13562.609	51.04	14.27	74.0	-22.96	Peak	224.50	100	Vertical	Pass
4**	13562.609	40.30	14.27	54.0	-13.70	AV	224.50	100	Vertical	Pass
5	15473.382	52.13	15.30	74.0	-21.87	Peak	333.90	100	Vertical	Pass
5**	15473.382	42.19	15.30	54.0	-11.81	AV	333.90	100	Vertical	Pass
6	17799.300	55.92	21.10	74.0	-18.08	Peak	348.00	100	Vertical	Pass
6**	17799.300	46.41	21.10	54.0	-7.59	AV	348.00	100	Vertical	Pass

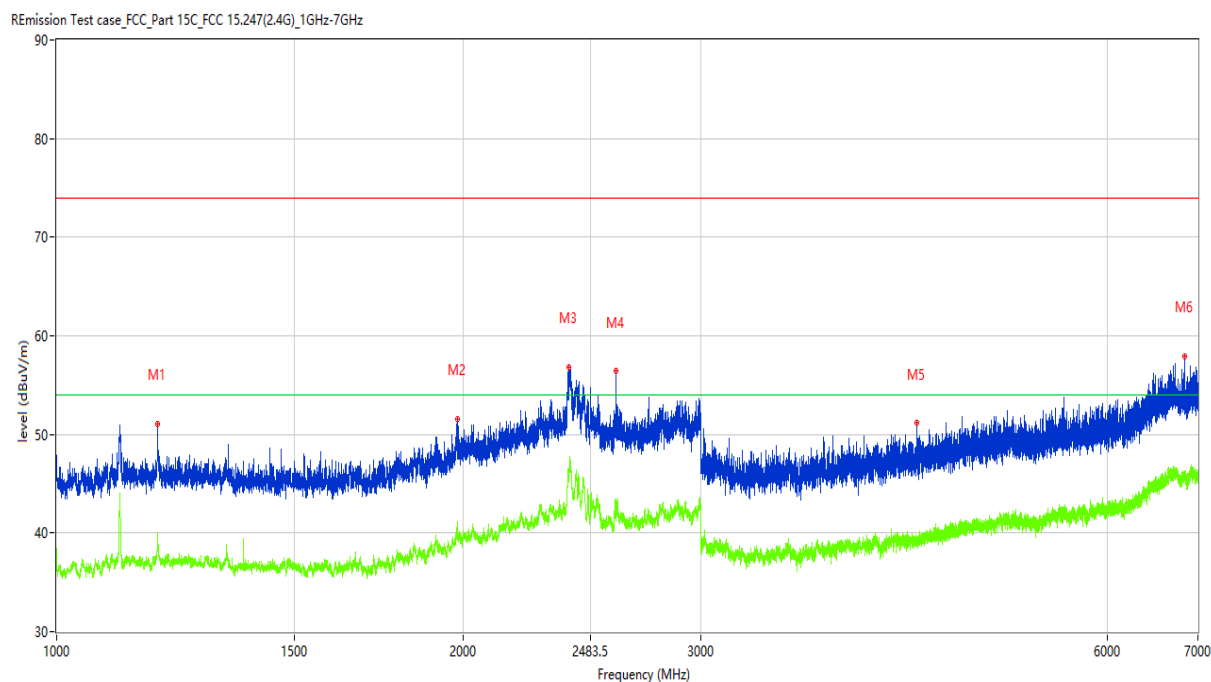
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Figure 33: Spurious Emission, 1GHz – 10th Harmonic, 802.11g, 2437MHz
1GHz-7GHz, Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.477	51.07	-3.93	74.0	-22.93	Peak	10.30	100	Horizontal	Pass
1**	1187.477	39.66	-3.93	54.0	-14.34	AV	10.30	100	Horizontal	Pass
2	1980.127	51.52	-2.52	74.0	-22.48	Peak	0.30	100	Horizontal	Pass
2**	1980.127	40.63	-2.52	54.0	-13.37	AV	0.30	100	Horizontal	Pass
3	2396.575	56.87	5.51	74.0	-17.13	Peak	0.30	100	Horizontal	Pass
3**	2396.575	46.51	5.51	54.0	-7.49	AV	0.30	100	Horizontal	Pass
4	2596.300	56.41	-0.27	74.0	-17.59	Peak	14.80	100	Horizontal	Pass
4**	2596.300	42.20	-0.27	54.0	-11.80	AV	14.80	100	Horizontal	Pass
5	4332.833	51.13	0.09	74.0	-22.87	Peak	0.00	100	Horizontal	Pass
5**	4332.833	39.67	0.09	54.0	-14.33	AV	0.00	100	Horizontal	Pass
6	6847.019	57.94	5.56	74.0	-16.06	Peak	0.00	100	Horizontal	Pass
6**	6847.019	46.34	5.56	54.0	-7.66	AV	0.00	100	Horizontal	Pass

TEST REPORT

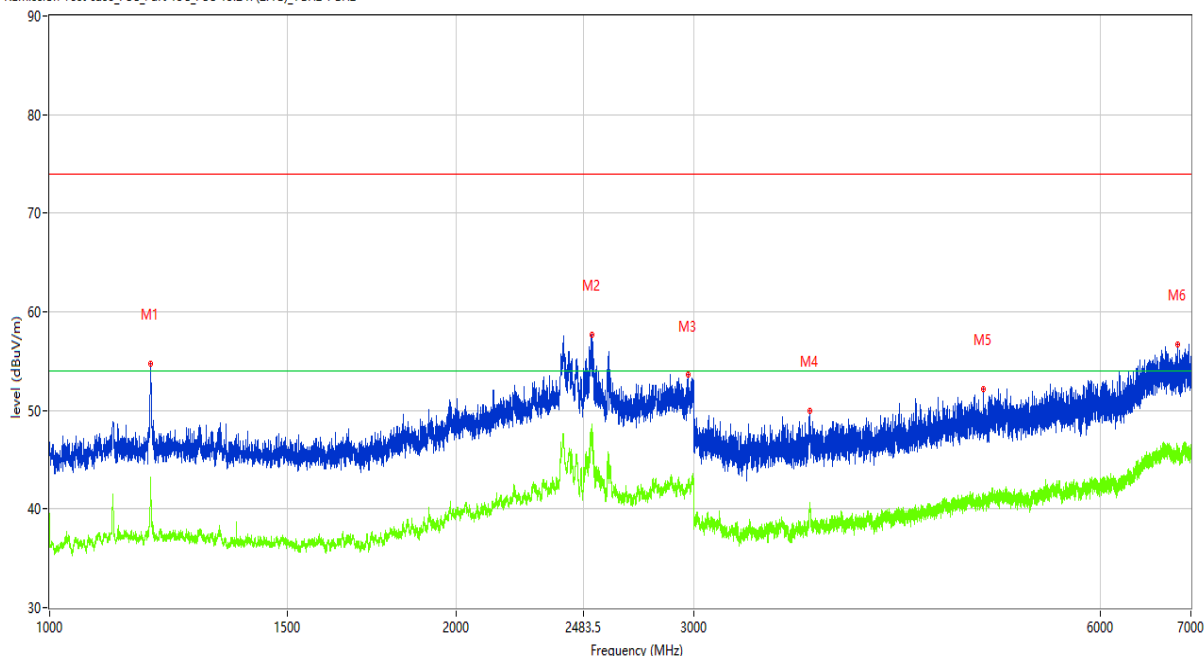
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.727	54.71	-3.90	74.0	-19.29	Peak	349.30	100	Vertical	Pass
1**	1187.727	42.86	-3.90	54.0	-11.14	AV	349.30	100	Vertical	Pass
2	2519.310	57.73	-0.03	74.0	-16.27	Peak	300.50	100	Vertical	Pass
2**	2519.310	48.67	-0.03	54.0	-5.33	AV	300.50	100	Vertical	Pass
3	2971.754	53.59	2.73	74.0	-20.41	Peak	340.30	100	Vertical	Pass
3**	2971.754	42.83	2.73	54.0	-11.17	AV	340.30	100	Vertical	Pass
4	3652.918	49.92	-0.83	74.0	-24.08	Peak	0.00	100	Vertical	Pass
4**	3652.918	39.87	-0.83	54.0	-14.13	AV	0.00	100	Vertical	Pass
5	4913.761	52.21	1.32	74.0	-21.79	Peak	0.00	100	Vertical	Pass
5**	4913.761	41.27	1.32	54.0	-12.73	AV	0.00	100	Vertical	Pass
6	6846.019	56.68	5.55	74.0	-17.32	Peak	0.00	100	Vertical	Pass
6**	6846.019	46.13	5.55	54.0	-7.87	AV	0.00	100	Vertical	Pass

TEST REPORT

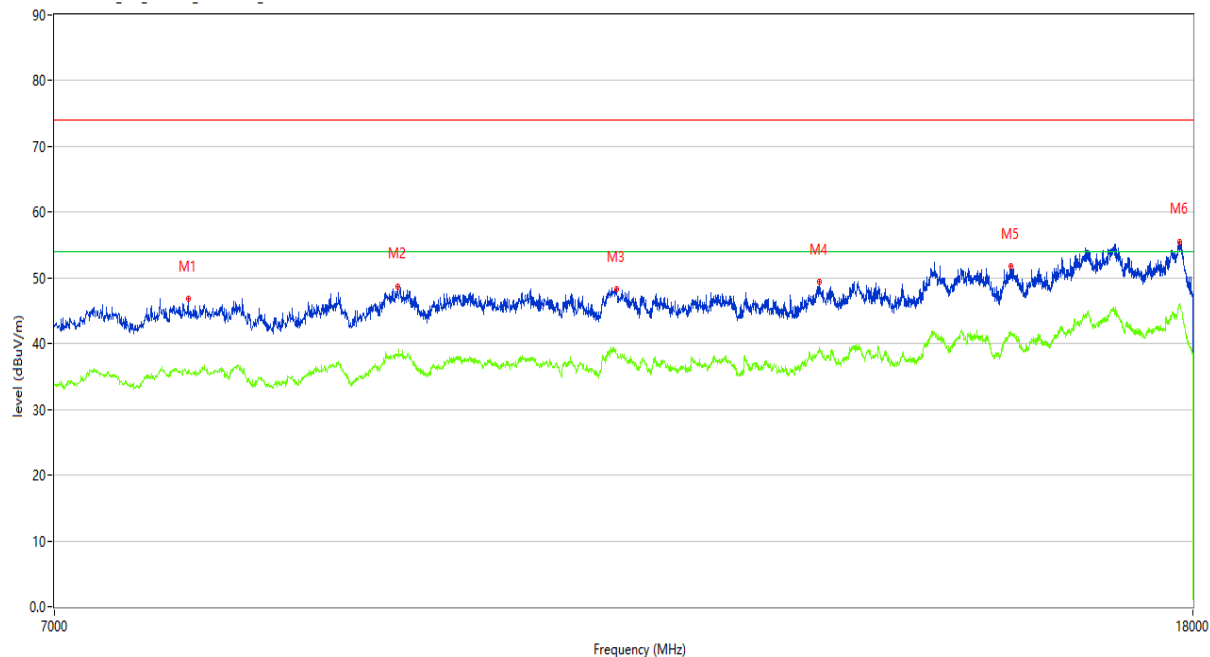
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7822.044	46.77	4.74	74.0	-27.23	Peak	179.00	100	Horizontal	Pass
1**	7822.044	35.47	4.74	54.0	-18.53	AV	179.00	100	Horizontal	Pass
2	9306.673	48.73	9.20	74.0	-25.27	Peak	183.80	100	Horizontal	Pass
2**	9306.673	38.43	9.20	54.0	-15.57	AV	183.80	100	Horizontal	Pass
3	11159.710	48.32	10.81	74.0	-25.68	Peak	300.80	100	Horizontal	Pass
3**	11159.710	38.35	10.81	54.0	-15.65	AV	300.80	100	Horizontal	Pass
4	13199.700	49.32	12.37	74.0	-24.68	Peak	169.70	100	Horizontal	Pass
4**	13199.700	39.09	12.37	54.0	-14.91	AV	169.70	100	Horizontal	Pass
5	15473.382	51.84	15.30	74.0	-22.16	Peak	56.60	100	Horizontal	Pass
5**	15473.382	41.75	15.30	54.0	-12.25	AV	56.60	100	Horizontal	Pass
6	17807.548	55.55	20.81	74.0	-18.45	Peak	327.90	100	Horizontal	Pass
6**	17807.548	45.81	20.81	54.0	-8.19	AV	327.90	100	Horizontal	Pass

TEST REPORT

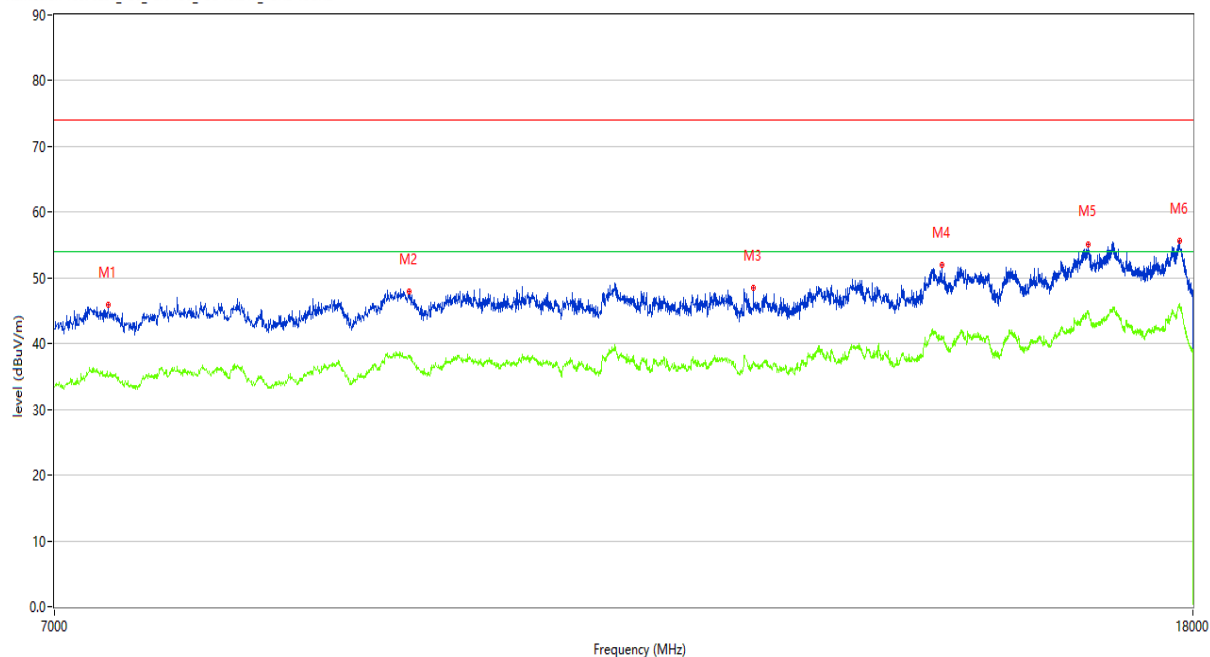
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7318.920	45.89	3.05	74.0	-28.11	Peak	190.60	100	Vertical	Pass
1**	7318.920	34.89	3.05	54.0	-19.11	AV	190.60	100	Vertical	Pass
2	9394.651	47.98	9.94	74.0	-26.02	Peak	230.40	100	Vertical	Pass
2**	9394.651	37.87	9.94	54.0	-16.13	AV	230.40	100	Vertical	Pass
3	12498.625	48.40	10.66	74.0	-25.60	Peak	153.80	100	Vertical	Pass
3**	12498.625	37.34	10.66	54.0	-16.66	AV	153.80	100	Vertical	Pass
4	14612.847	51.95	17.04	74.0	-22.05	Peak	40.30	100	Vertical	Pass
4**	14612.847	41.10	17.04	54.0	-12.90	AV	40.30	100	Vertical	Pass
5	16498.875	55.19	20.80	74.0	-18.81	Peak	315.30	100	Vertical	Pass
5**	16498.875	44.80	20.80	54.0	-9.20	AV	315.30	100	Vertical	Pass
6	17802.049	55.66	21.02	74.0	-18.34	Peak	252.80	100	Vertical	Pass
6**	17802.049	46.05	21.02	54.0	-7.95	AV	252.80	100	Vertical	Pass

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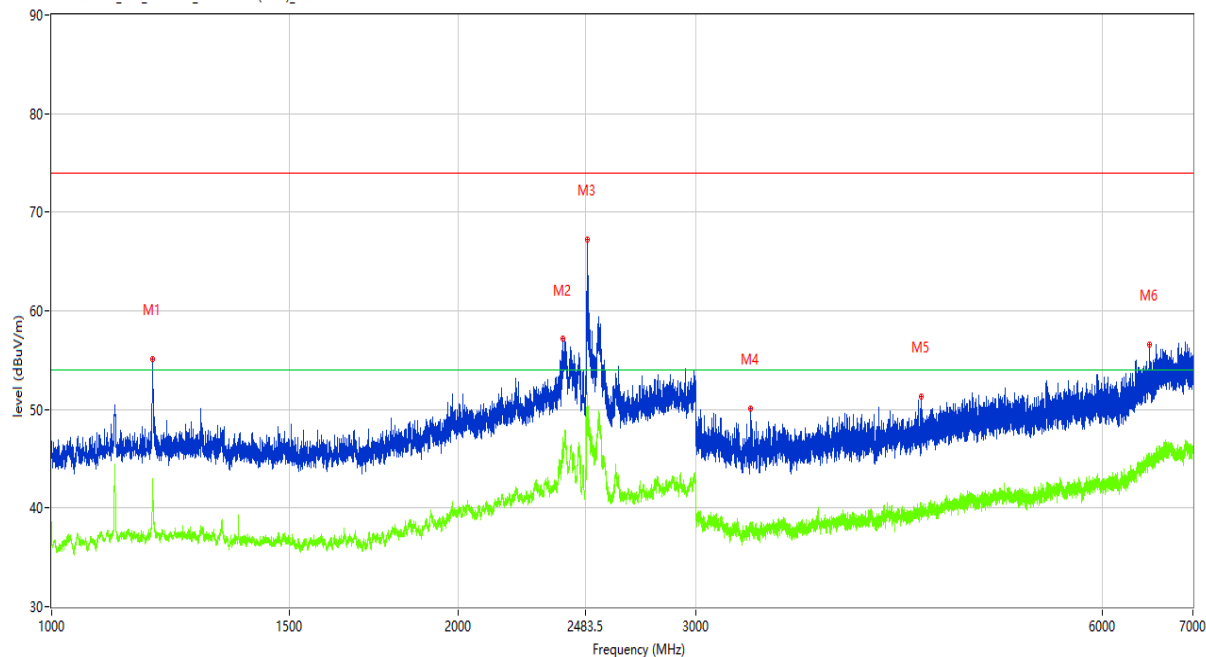
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Figure 34: Spurious Emission, 1GHz – 10th Harmonic, 802.11g, 2462MHz

1GHz-7GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1188.226	55.14	-3.85	74.0	-18.86	Peak	39.70	100	Horizontal	Pass
1**	1188.226	42.57	-3.85	54.0	-11.43	AV	39.70	100	Horizontal	Pass
2	2392.076	57.13	5.32	74.0	-16.87	Peak	6.70	100	Horizontal	Pass
2**	2392.076	46.78	5.32	54.0	-7.22	AV	6.70	100	Horizontal	Pass
3	2493.563	67.19	1.82	74.0	-6.81	Peak	49.10	100	Horizontal	Pass
3**	2493.563	51.65	1.82	54.0	-2.35	AV	49.10	100	Horizontal	Pass
4	3292.463	50.10	-1.73	74.0	-23.90	Peak	0.00	100	Horizontal	Pass
4**	3292.463	38.59	-1.73	54.0	-15.41	AV	0.00	100	Horizontal	Pass
5	4403.325	51.34	0.37	74.0	-22.66	Peak	0.00	100	Horizontal	Pass
5**	4403.325	40.39	0.37	54.0	-13.61	AV	0.00	100	Horizontal	Pass
6	6497.063	56.59	4.82	74.0	-17.41	Peak	0.00	100	Horizontal	Pass
6**	6497.063	45.18	4.82	54.0	-8.82	AV	0.00	100	Horizontal	Pass

TEST REPORT

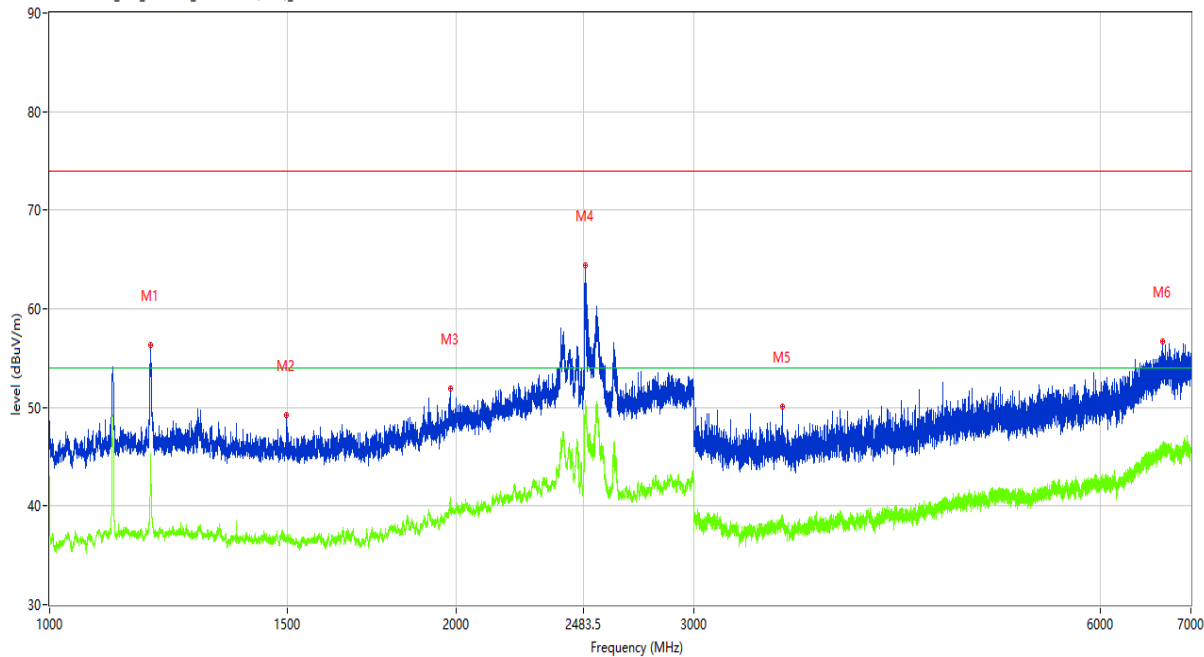
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.477	56.29	-3.93	74.0	-17.71	Peak	128.60	100	Vertical	Pass
1**	1187.477	44.00	-3.93	54.0	-10.00	AV	128.60	100	Vertical	Pass
2	1498.438	49.24	-5.19	74.0	-24.76	Peak	3.40	100	Vertical	Pass
2**	1498.438	36.66	-5.19	54.0	-17.34	AV	3.40	100	Vertical	Pass
3	1979.378	51.89	-2.41	74.0	-22.11	Peak	15.90	100	Vertical	Pass
3**	1979.378	40.46	-2.41	54.0	-13.54	AV	15.90	100	Vertical	Pass
4	2494.313	64.40	1.86	74.0	-9.60	Peak	100.70	100	Vertical	Pass
4**	2494.313	50.75	1.86	54.0	-3.25	AV	100.70	100	Vertical	Pass
5	3489.939	50.09	-1.26	74.0	-23.91	Peak	0.00	100	Vertical	Pass
5**	3489.939	38.20	-1.26	54.0	-15.80	AV	0.00	100	Vertical	Pass
6	6666.542	56.73	5.59	74.0	-17.27	Peak	0.00	100	Vertical	Pass
6**	6666.542	45.77	5.59	54.0	-8.23	AV	0.00	100	Vertical	Pass

TEST REPORT

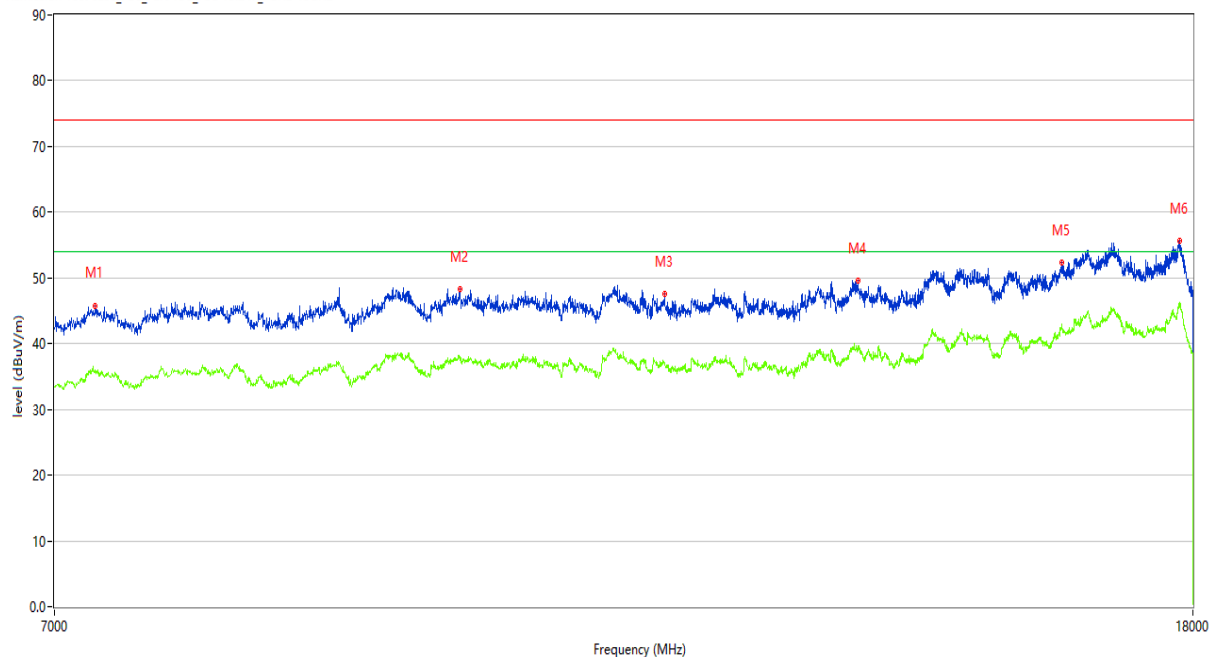
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7241.940	45.79	2.81	74.0	-28.21	Peak	145.60	100	Horizontal	Pass
1**	7241.940	35.83	2.81	54.0	-18.17	AV	145.60	100	Horizontal	Pass
2	9798.800	48.33	9.62	74.0	-25.67	Peak	23.10	100	Horizontal	Pass
2**	9798.800	38.03	9.62	54.0	-15.97	AV	23.10	100	Horizontal	Pass
3	11610.597	47.49	11.42	74.0	-26.51	Peak	64.40	100	Horizontal	Pass
3**	11610.597	36.98	11.42	54.0	-17.02	AV	64.40	100	Horizontal	Pass
4	13636.841	49.53	14.13	74.0	-24.47	Peak	28.00	100	Horizontal	Pass
4**	13636.841	39.72	14.13	54.0	-14.28	AV	28.00	100	Horizontal	Pass
5	16141.465	52.29	17.53	74.0	-21.71	Peak	260.90	100	Horizontal	Pass
5**	16141.465	42.23	17.53	54.0	-11.77	AV	260.90	100	Horizontal	Pass
6	17807.548	55.64	20.81	74.0	-18.36	Peak	342.40	100	Horizontal	Pass
6**	17807.548	46.20	20.81	54.0	-7.80	AV	342.40	100	Horizontal	Pass

TEST REPORT

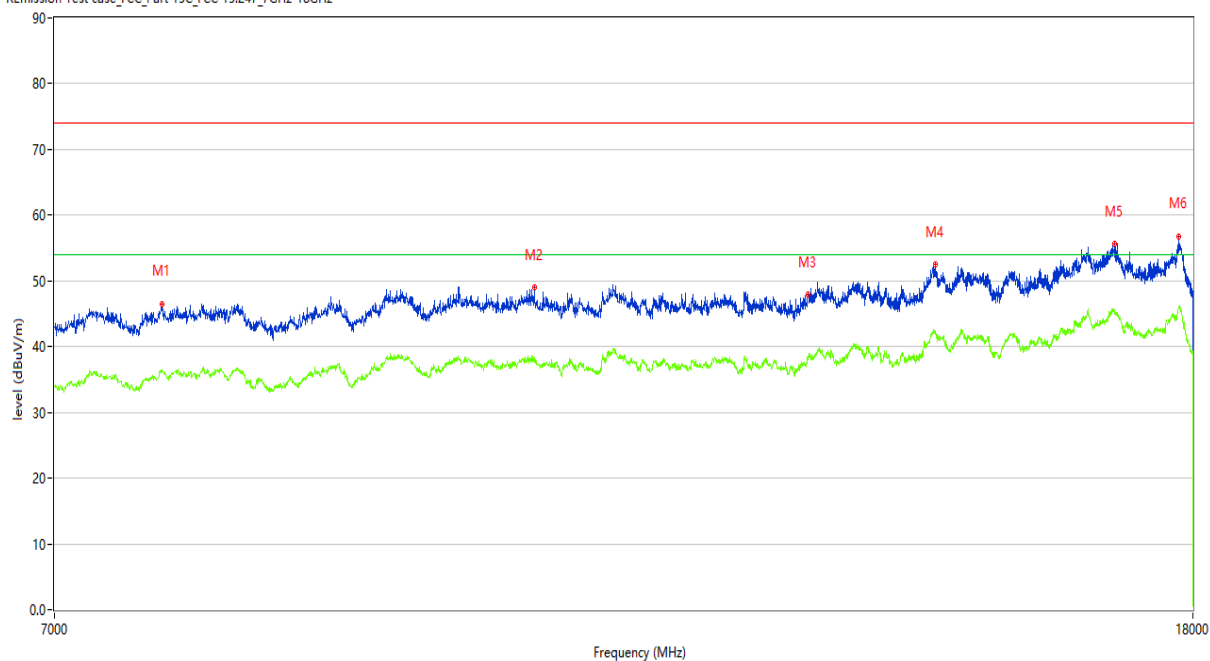
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7651.587	46.52	4.71	74.0	-27.48	Peak	153.30	100	Vertical	Pass
1**	7651.587	36.63	4.71	54.0	-17.37	AV	153.30	100	Vertical	Pass
2	10422.894	49.01	10.75	74.0	-24.99	Peak	57.00	100	Vertical	Pass
2**	10422.894	38.36	10.75	54.0	-15.64	AV	57.00	100	Vertical	Pass
3	13081.480	47.86	12.23	74.0	-26.14	Peak	0.00	100	Vertical	Pass
3**	13081.480	38.18	12.23	54.0	-15.82	AV	0.00	100	Vertical	Pass
4	14538.615	52.47	16.96	74.0	-21.53	Peak	185.00	100	Vertical	Pass
4**	14538.615	42.03	16.96	54.0	-11.97	AV	185.00	100	Vertical	Pass
5	16867.283	55.69	20.32	74.0	-18.31	Peak	198.00	100	Vertical	Pass
5**	16867.283	45.26	20.32	54.0	-8.74	AV	198.00	100	Vertical	Pass
6	17785.554	56.84	21.17	74.0	-17.16	Peak	25.70	100	Vertical	Pass
6**	17785.554	45.97	21.17	54.0	-8.03	AV	25.70	100	Vertical	Pass

TEST REPORT

Report No.: SHE20010035-01AE

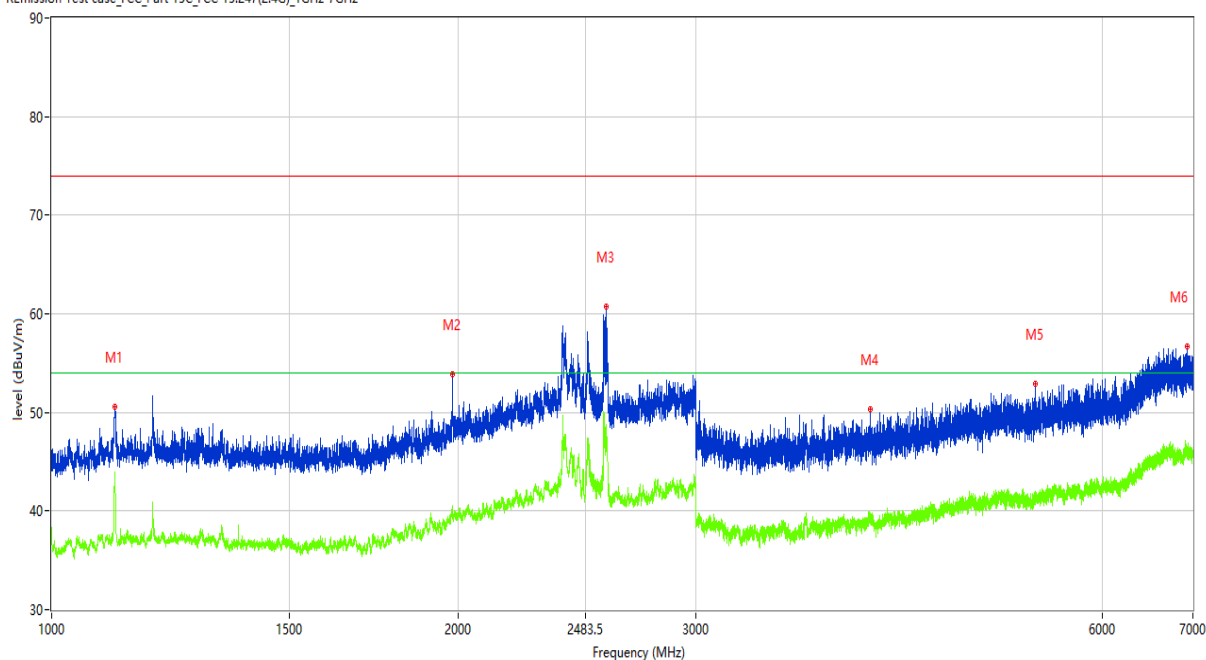
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Figure 35: Spurious Emission, 1GHz – 10th Harmonic, 802.11n(HT20), 2412MHz

1GHz-7GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1113.986	50.56	-3.69	74.0	-23.44	Peak	0.00	100	Horizontal	Pass
1**	1113.986	43.99	-3.69	54.0	-10.01	AV	0.00	100	Horizontal	Pass
2	1979.628	53.87	-2.45	74.0	-20.13	Peak	0.40	100	Horizontal	Pass
2**	1979.628	40.58	-2.45	54.0	-13.42	AV	0.40	100	Horizontal	Pass
3	2574.553	60.77	-0.17	74.0	-13.23	Peak	38.60	100	Horizontal	Pass
3**	2574.553	48.77	-0.17	54.0	-5.23	AV	38.60	100	Horizontal	Pass
4	4038.370	50.33	-0.10	74.0	-23.67	Peak	0.00	100	Horizontal	Pass
4**	4038.370	39.76	-0.10	54.0	-14.24	AV	0.00	100	Horizontal	Pass
5	5350.706	52.91	1.46	74.0	-21.09	Peak	0.00	100	Horizontal	Pass
5**	5350.706	41.94	1.46	54.0	-12.06	AV	0.00	100	Horizontal	Pass
6	6927.509	56.68	5.72	74.0	-17.32	Peak	0.00	100	Horizontal	Pass
6**	6927.509	46.46	5.72	54.0	-7.54	AV	0.00	100	Horizontal	Pass

TEST REPORT

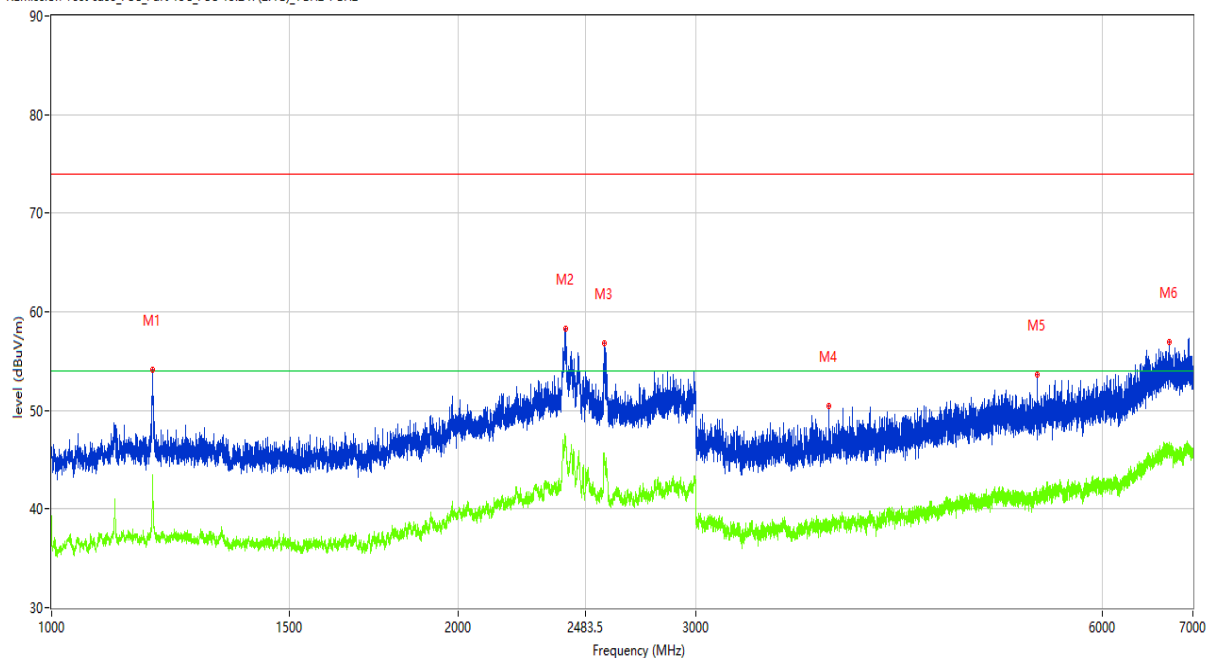
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.977	54.12	-3.88	74.0	-19.88	Peak	348.90	100	Vertical	Pass
1**	1187.977	43.50	-3.88	54.0	-10.50	AV	348.90	100	Vertical	Pass
2	2401.075	58.29	5.33	74.0	-15.71	Peak	360.00	100	Vertical	Pass
2**	2401.075	47.40	5.33	54.0	-6.60	AV	360.00	100	Vertical	Pass
3	2566.554	56.85	0.14	74.0	-17.15	Peak	360.20	100	Vertical	Pass
3**	2566.554	45.70	0.14	54.0	-8.30	AV	360.20	100	Vertical	Pass
4	3762.905	50.51	-0.74	74.0	-23.49	Peak	0.00	100	Vertical	Pass
4**	3762.905	38.88	-0.74	54.0	-15.12	AV	0.00	100	Vertical	Pass
5	5369.704	53.62	1.46	74.0	-20.38	Peak	0.00	100	Vertical	Pass
5**	5369.704	41.31	1.46	54.0	-12.69	AV	0.00	100	Vertical	Pass
6	6725.534	56.94	5.82	74.0	-17.06	Peak	0.00	100	Vertical	Pass
6**	6725.534	46.54	5.82	54.0	-7.46	AV	0.00	100	Vertical	Pass

TEST REPORT

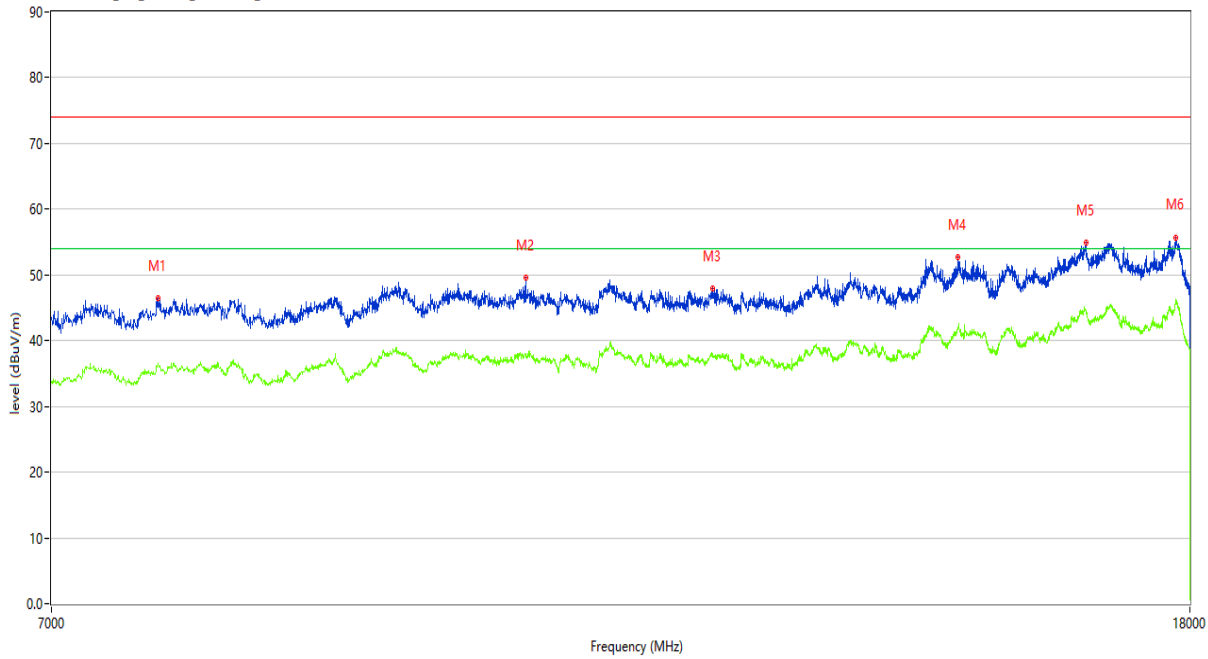
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7648.838	46.40	4.69	74.0	-27.60	Peak	318.90	100	Horizontal	Pass
1**	7648.838	36.49	4.69	54.0	-17.51	AV	318.90	100	Horizontal	Pass
2	10373.407	49.51	10.66	74.0	-24.49	Peak	67.00	100	Horizontal	Pass
2**	10373.407	37.98	10.66	54.0	-16.02	AV	67.00	100	Horizontal	Pass
3	12119.220	47.86	10.76	74.0	-26.14	Peak	4.70	100	Horizontal	Pass
3**	12119.220	37.44	10.76	54.0	-16.56	AV	4.70	100	Horizontal	Pass
4	14852.037	52.65	18.20	74.0	-21.35	Peak	75.90	100	Horizontal	Pass
4**	14852.037	41.92	18.20	54.0	-12.08	AV	75.90	100	Horizontal	Pass
5	16512.622	54.88	20.31	74.0	-19.12	Peak	2.60	100	Horizontal	Pass
5**	16512.622	44.44	20.31	54.0	-9.56	AV	2.60	100	Horizontal	Pass
6	17788.303	55.73	21.15	74.0	-18.27	Peak	89.30	100	Horizontal	Pass
6**	17788.303	45.67	21.15	54.0	-8.33	AV	89.30	100	Horizontal	Pass

TEST REPORT

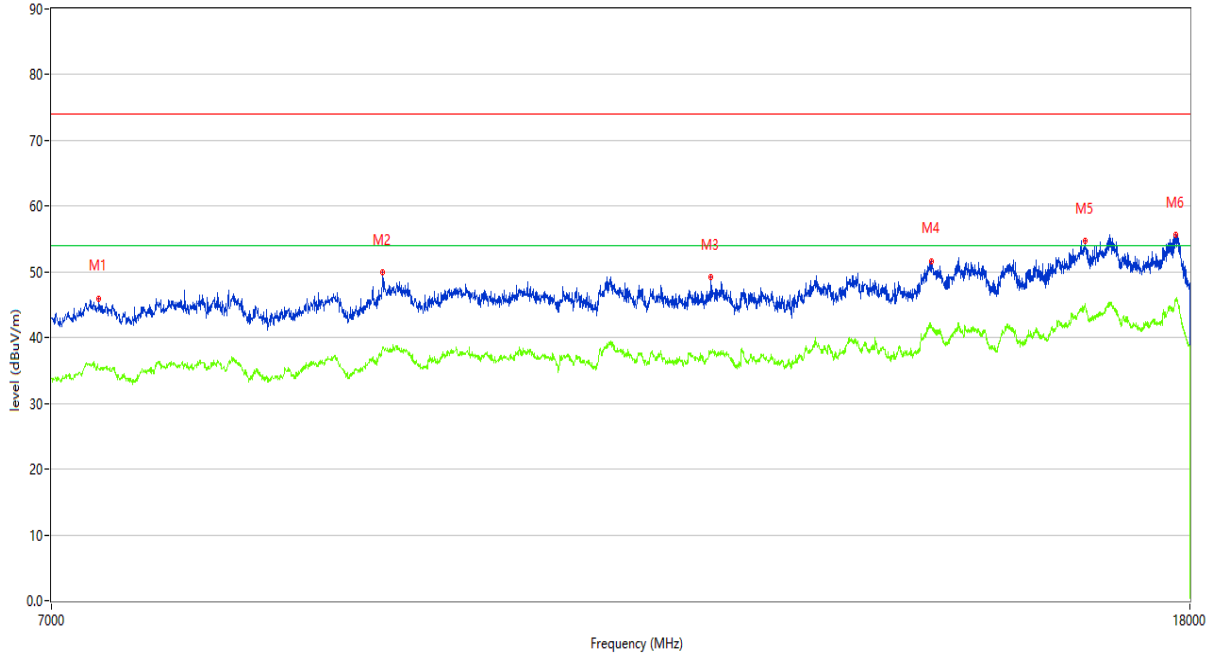
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7280.430	46.00	2.90	74.0	-28.00	Peak	15.70	100	Vertical	Pass
1**	7280.430	35.20	2.90	54.0	-18.80	AV	15.70	100	Vertical	Pass
2	9215.946	49.90	8.51	74.0	-24.10	Peak	356.00	100	Vertical	Pass
2**	9215.946	38.37	8.51	54.0	-15.63	AV	356.00	100	Vertical	Pass
3	12099.975	49.27	10.60	74.0	-24.73	Peak	285.90	100	Vertical	Pass
3**	12099.975	37.77	10.60	54.0	-16.23	AV	285.90	100	Vertical	Pass
4	14527.618	51.69	17.00	74.0	-22.31	Peak	317.50	100	Vertical	Pass
4**	14527.618	41.84	17.00	54.0	-12.16	AV	317.50	100	Vertical	Pass
5	16501.625	54.72	20.75	74.0	-19.28	Peak	308.60	100	Vertical	Pass
5**	16501.625	44.84	20.75	54.0	-9.16	AV	308.60	100	Vertical	Pass
6	17791.052	55.57	21.14	74.0	-18.43	Peak	43.60	100	Vertical	Pass
6**	17791.052	45.70	21.14	54.0	-8.30	AV	43.60	100	Vertical	Pass

TEST REPORT

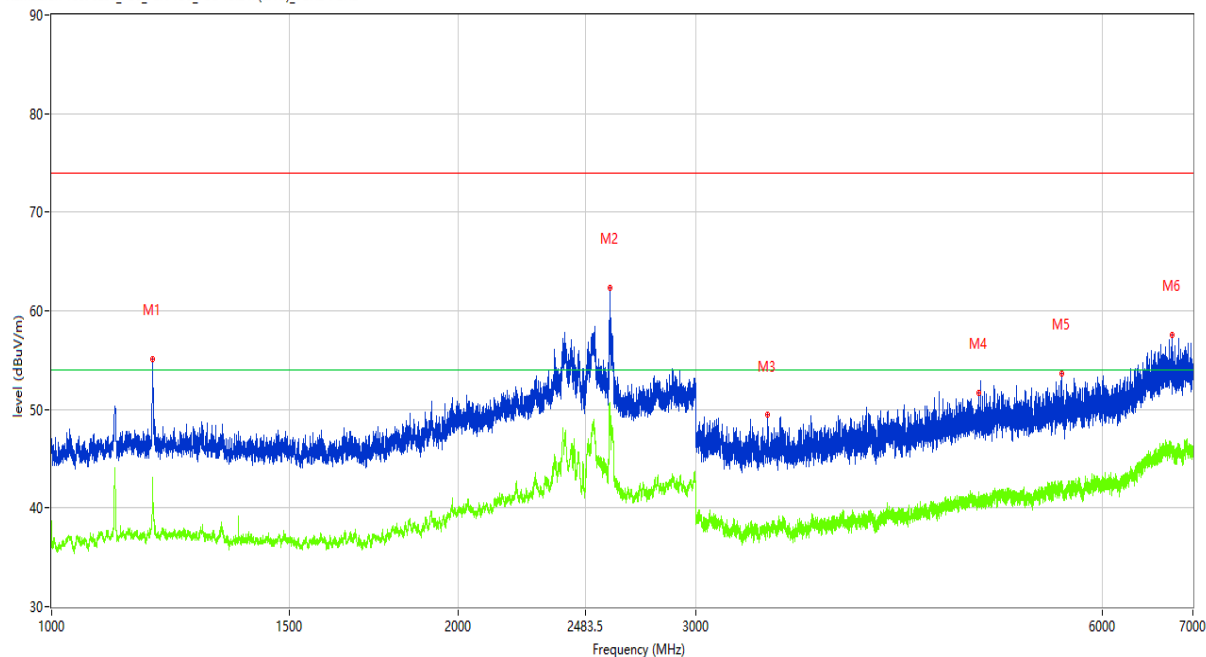
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Figure 36: Spurious Emission, 1GHz – 10th Harmonic, 802.11n(HT20), 2437MHz
1GHz-7GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1188.226	55.10	-3.85	74.0	-18.90	Peak	52.10	100	Horizontal	Pass
1**	1188.226	42.77	-3.85	54.0	-11.23	AV	52.10	100	Horizontal	Pass
2	2590.801	62.31	-0.33	74.0	-11.69	Peak	79.60	100	Horizontal	Pass
2**	2590.801	50.74	-0.33	54.0	-3.26	AV	79.60	100	Horizontal	Pass
3	3390.951	49.41	-1.47	74.0	-24.59	Peak	0.00	100	Horizontal	Pass
3**	3390.951	38.32	-1.47	54.0	-15.68	AV	0.00	100	Horizontal	Pass
4	4858.768	51.72	1.18	74.0	-22.28	Peak	0.00	100	Horizontal	Pass
4**	4858.768	41.08	1.18	54.0	-12.92	AV	0.00	100	Horizontal	Pass
5	5598.175	53.63	2.05	74.0	-20.37	Peak	0.00	100	Horizontal	Pass
5**	5598.175	42.69	2.05	54.0	-11.31	AV	0.00	100	Horizontal	Pass
6	6753.531	57.60	5.65	74.0	-16.40	Peak	0.00	100	Horizontal	Pass
6**	6753.531	46.05	5.65	54.0	-7.95	AV	0.00	100	Horizontal	Pass

TEST REPORT

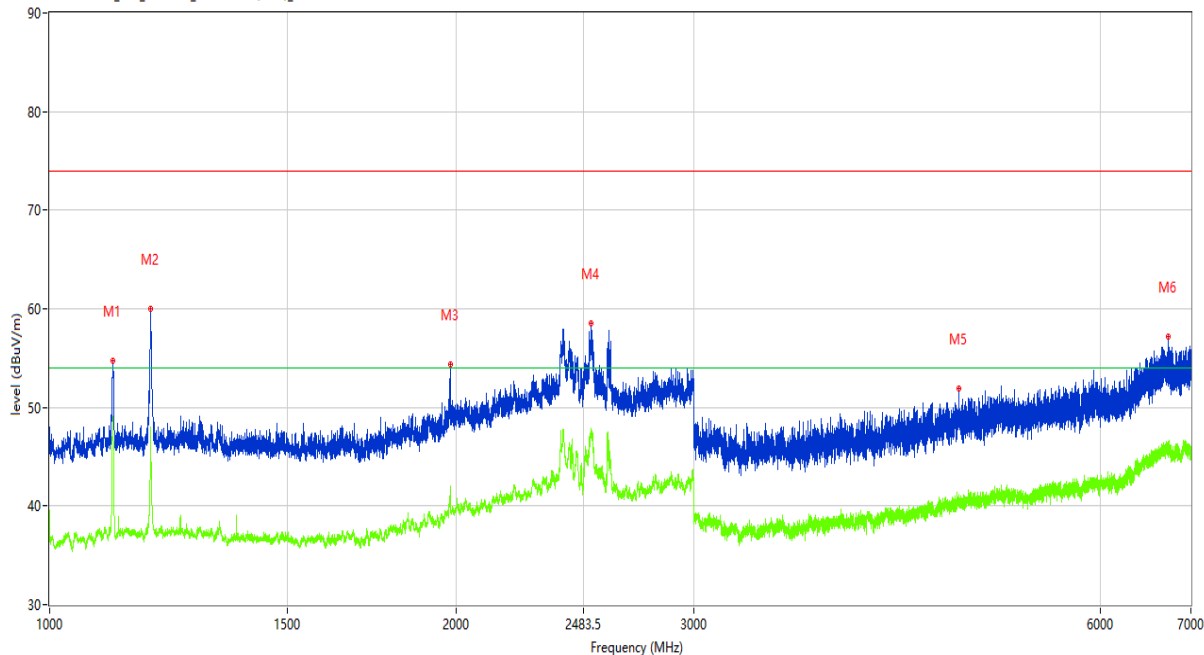
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1114.486	54.72	-3.78	74.0	-19.28	Peak	123.00	100	Vertical	Pass
1**	1114.486	47.42	-3.78	54.0	-6.58	AV	123.00	100	Vertical	Pass
2	1187.727	60.00	-3.90	74.0	-14.00	Peak	156.10	100	Vertical	Pass
2**	1187.727	48.05	-3.90	54.0	-5.95	AV	156.10	100	Vertical	Pass
3	1979.878	54.39	-2.48	74.0	-19.61	Peak	141.60	100	Vertical	Pass
3**	1979.878	42.05	-2.48	54.0	-11.95	AV	141.60	100	Vertical	Pass
4	2515.561	58.49	0.36	74.0	-15.51	Peak	118.50	100	Vertical	Pass
4**	2515.561	47.13	0.36	54.0	-6.87	AV	118.50	100	Vertical	Pass
5	4715.786	51.94	0.98	74.0	-22.06	Peak	0.00	100	Vertical	Pass
5**	4715.786	40.40	0.98	54.0	-13.60	AV	0.00	100	Vertical	Pass
6	6739.033	57.15	5.74	74.0	-16.85	Peak	0.00	100	Vertical	Pass
6**	6739.033	46.13	5.74	54.0	-7.87	AV	0.00	100	Vertical	Pass

TEST REPORT

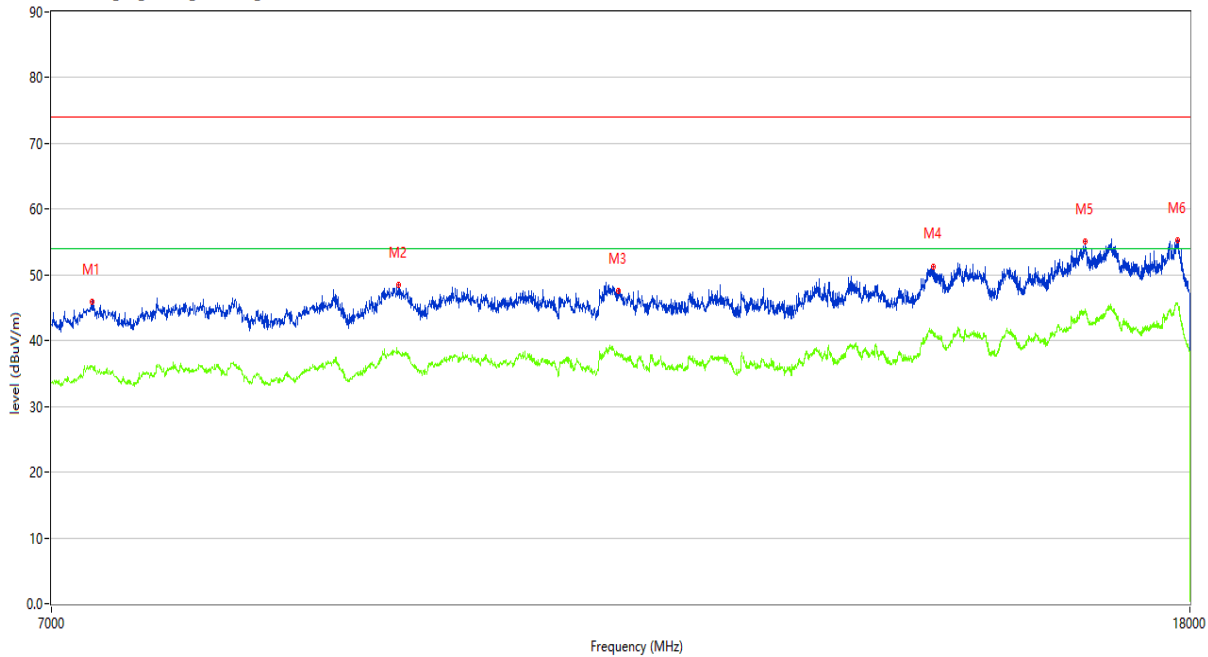
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7203.449	43.82	2.86	74.0	-30.18	Peak	243.40	100	Horizontal	Pass
1**	7203.449	35.60	2.86	54.0	-18.40	AV	243.40	100	Horizontal	Pass
2	9336.916	48.52	9.63	74.0	-25.48	Peak	238.50	100	Horizontal	Pass
2**	9336.916	38.39	9.63	54.0	-15.61	AV	238.50	100	Horizontal	Pass
3	11200.950	47.53	10.71	74.0	-26.47	Peak	252.30	100	Horizontal	Pass
3**	11200.950	37.93	10.71	54.0	-16.07	AV	252.30	100	Horizontal	Pass
4	14544.114	51.32	16.94	74.0	-22.68	Peak	202.80	100	Horizontal	Pass
4**	14544.114	41.36	16.94	54.0	-12.64	AV	202.80	100	Horizontal	Pass
5	16507.123	55.13	20.53	74.0	-18.87	Peak	139.60	100	Horizontal	Pass
5**	16507.123	44.33	20.53	54.0	-9.67	AV	139.60	100	Horizontal	Pass
6	17821.295	55.31	20.30	74.0	-18.69	Peak	0.00	100	Horizontal	Pass
6**	17821.295	45.30	20.30	54.0	-8.70	AV	0.00	100	Horizontal	Pass

TEST REPORT

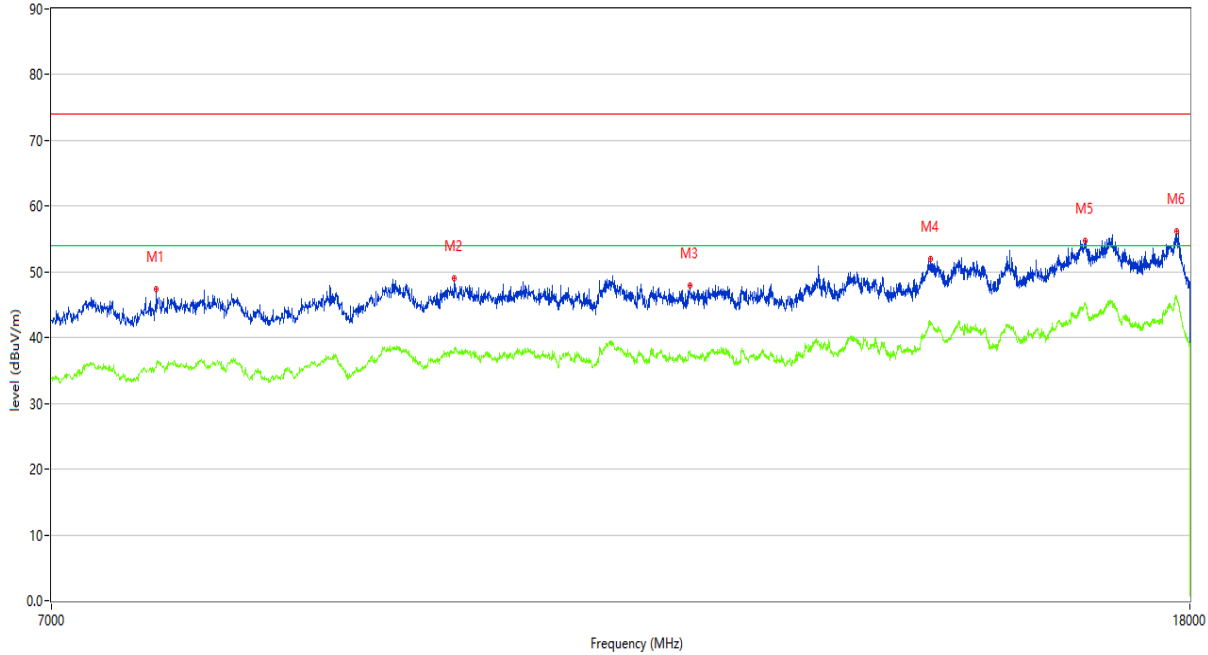
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7637.841	47.32	4.47	74.0	-26.68	Peak	35.00	100	Vertical	Pass
1**	7637.841	35.73	4.47	54.0	-18.27	AV	35.00	100	Vertical	Pass
2	9779.555	49.07	9.66	74.0	-24.93	Peak	355.40	100	Vertical	Pass
2**	9779.555	38.44	9.66	54.0	-15.56	AV	355.40	100	Vertical	Pass
3	11888.278	47.91	9.86	74.0	-26.09	Peak	357.70	100	Vertical	Pass
3**	11888.278	37.94	9.86	54.0	-16.06	AV	357.70	100	Vertical	Pass
4	14513.872	51.94	17.05	74.0	-22.06	Peak	179.40	100	Vertical	Pass
4**	14513.872	42.44	17.05	54.0	-11.56	AV	179.40	100	Vertical	Pass
5	16496.126	54.77	20.74	74.0	-19.23	Peak	0.70	100	Vertical	Pass
5**	16496.126	45.04	20.74	54.0	-8.96	AV	0.70	100	Vertical	Pass
6	17799.300	56.24	21.10	74.0	-17.76	Peak	296.20	100	Vertical	Pass
6**	17799.300	46.21	21.10	54.0	-7.79	AV	296.20	100	Vertical	Pass

TEST REPORT

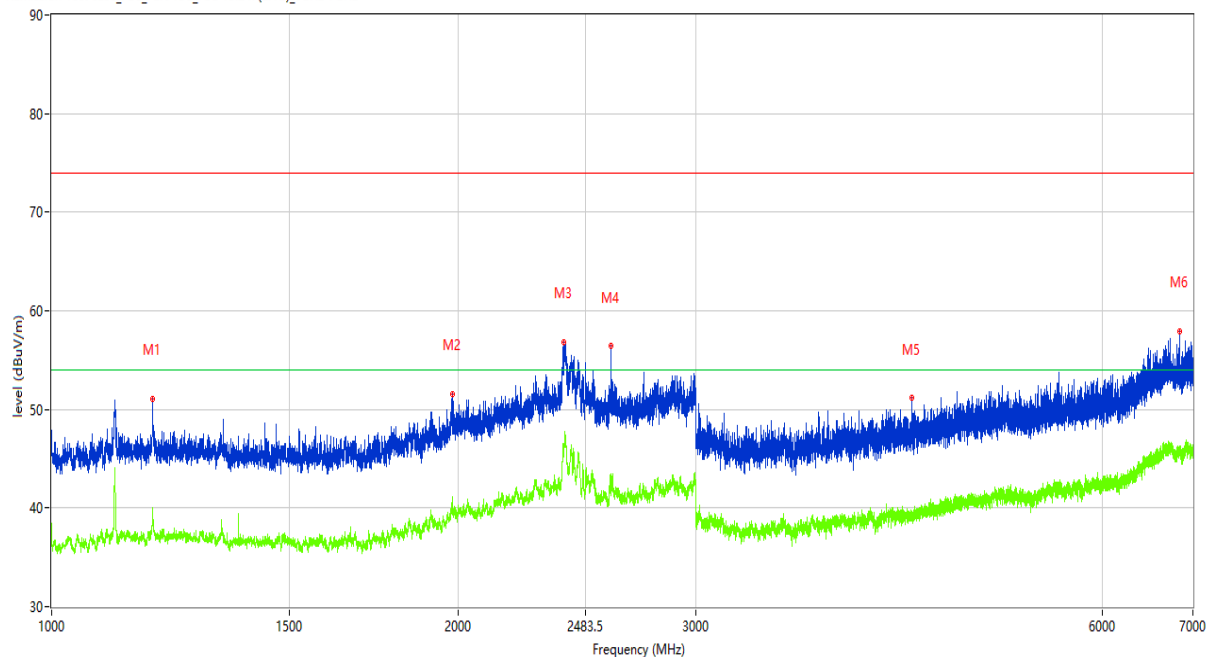
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Figure 37: Spurious Emission, 1GHz – 10th Harmonic, 802.11n(HT20), 2462MHz
1GHz-7GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.477	51.07	-3.93	74.0	-22.93	Peak	10.30	100	Horizontal	Pass
1**	1187.477	39.66	-3.93	54.0	-14.34	AV	10.30	100	Horizontal	Pass
2	1980.127	51.52	-2.52	74.0	-22.48	Peak	0.30	100	Horizontal	Pass
2**	1980.127	40.63	-2.52	54.0	-13.37	AV	0.30	100	Horizontal	Pass
3	2396.575	56.87	5.51	74.0	-17.13	Peak	0.30	100	Horizontal	Pass
3**	2396.575	46.51	5.51	54.0	-7.49	AV	0.30	100	Horizontal	Pass
4	2596.300	56.41	-0.27	74.0	-17.59	Peak	14.80	100	Horizontal	Pass
4**	2596.300	42.20	-0.27	54.0	-11.80	AV	14.80	100	Horizontal	Pass
5	4332.833	51.13	0.09	74.0	-22.87	Peak	0.00	100	Horizontal	Pass
5**	4332.833	39.67	0.09	54.0	-14.33	AV	0.00	100	Horizontal	Pass
6	6847.019	57.94	5.56	74.0	-16.06	Peak	0.00	100	Horizontal	Pass
6**	6847.019	46.34	5.56	54.0	-7.66	AV	0.00	100	Horizontal	Pass

TEST REPORT

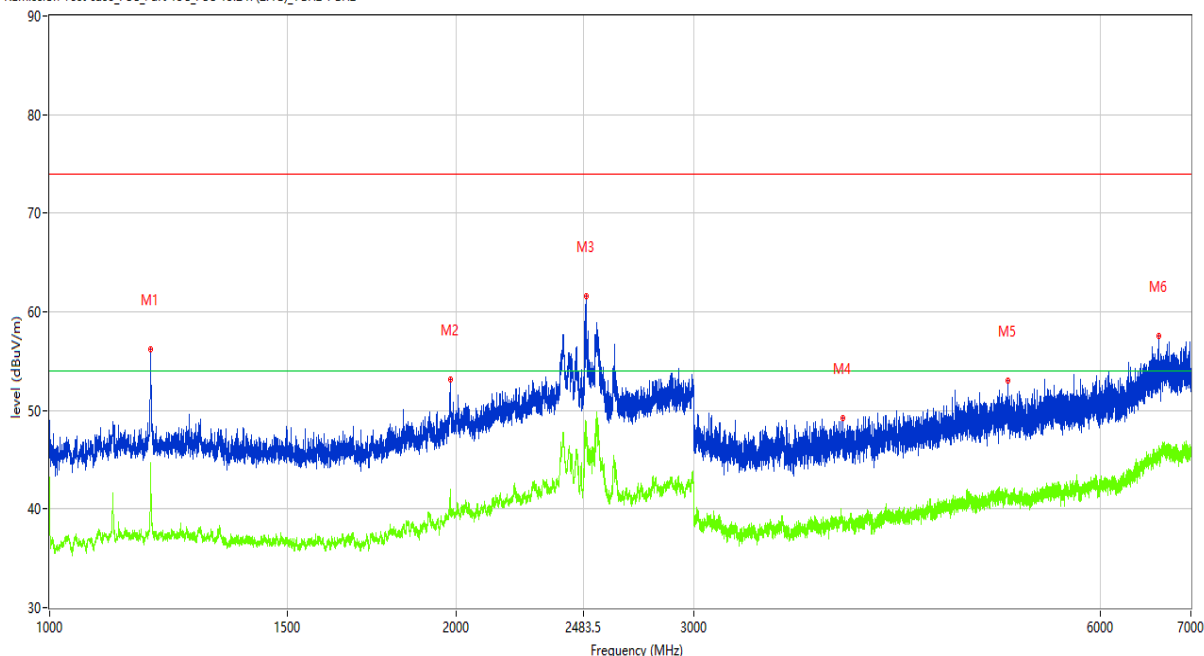
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1GHz-7GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.727	56.22	-3.90	74.0	-17.78	Peak	103.70	100	Vertical	Pass
1**	1187.727	44.64	-3.90	54.0	-9.36	AV	103.70	100	Vertical	Pass
2	1980.377	53.17	-2.56	74.0	-20.83	Peak	10.70	100	Vertical	Pass
2**	1980.377	40.85	-2.56	54.0	-13.15	AV	10.70	100	Vertical	Pass
3	2496.313	61.60	1.98	74.0	-12.40	Peak	90.00	100	Vertical	Pass
3**	2496.313	47.41	1.98	54.0	-6.59	AV	90.00	100	Vertical	Pass
4	3869.891	49.19	-0.46	74.0	-24.81	Peak	0.00	100	Vertical	Pass
4**	3869.891	37.88	-0.46	54.0	-16.12	AV	0.00	100	Vertical	Pass
5	5127.234	53.02	1.73	74.0	-20.98	Peak	0.00	100	Vertical	Pass
5**	5127.234	41.48	1.73	54.0	-12.52	AV	0.00	100	Vertical	Pass
6	6626.047	57.55	5.13	74.0	-16.45	Peak	0.00	100	Vertical	Pass
6**	6626.047	45.94	5.13	54.0	-8.06	AV	0.00	100	Vertical	Pass

TEST REPORT

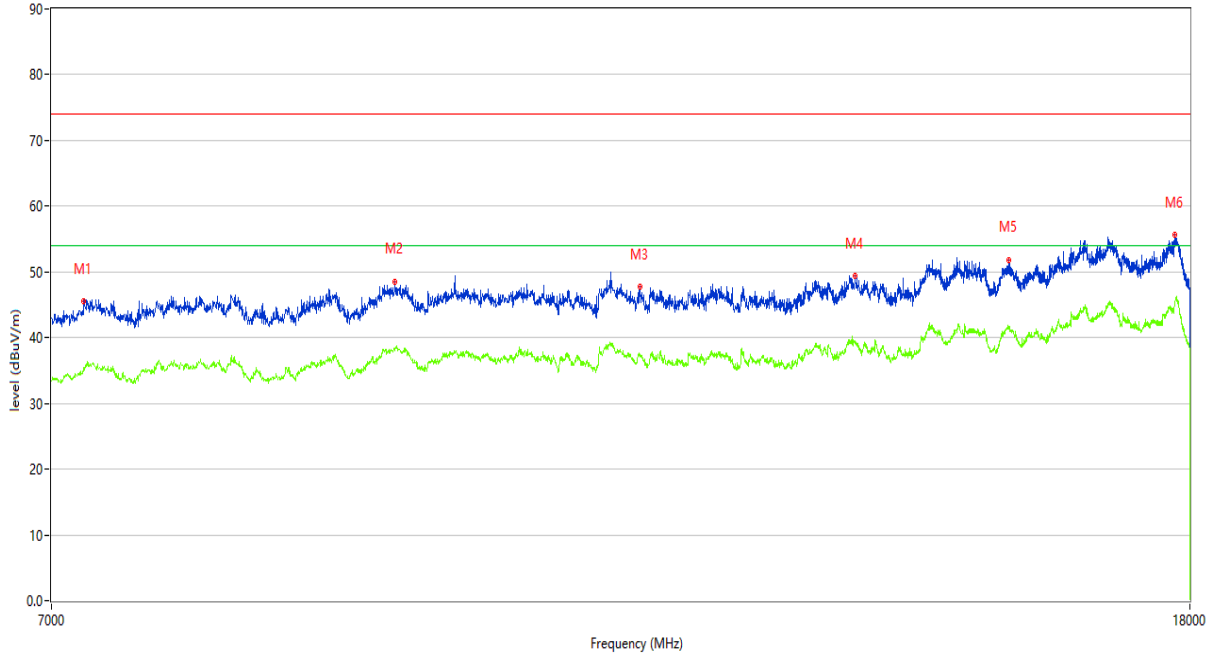
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7GHz-18GHz, Horizontal

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7148.463	42.61	2.43	74.0	-31.39	Peak	292.80	100	Horizontal	Pass
1**	7148.463	34.23	2.43	54.0	-19.77	AV	292.80	100	Horizontal	Pass
2	9309.423	48.56	9.24	74.0	-25.44	Peak	315.20	100	Horizontal	Pass
2**	9309.423	38.23	9.24	54.0	-15.77	AV	315.20	100	Horizontal	Pass
3	11407.148	47.70	10.48	74.0	-26.30	Peak	201.70	100	Horizontal	Pass
3**	11407.148	37.17	10.48	54.0	-16.83	AV	201.70	100	Horizontal	Pass
4	13636.841	49.44	14.13	74.0	-24.56	Peak	243.70	100	Horizontal	Pass
4**	13636.841	39.12	14.13	54.0	-14.88	AV	243.70	100	Horizontal	Pass
5	15487.128	51.88	15.30	74.0	-22.12	Peak	55.10	100	Horizontal	Pass
5**	15487.128	41.59	15.30	54.0	-12.41	AV	55.10	100	Horizontal	Pass
6	17780.055	55.61	21.19	74.0	-18.39	Peak	297.30	100	Horizontal	Pass
6**	17780.055	44.91	21.19	54.0	-9.09	AV	297.30	100	Horizontal	Pass

TEST REPORT

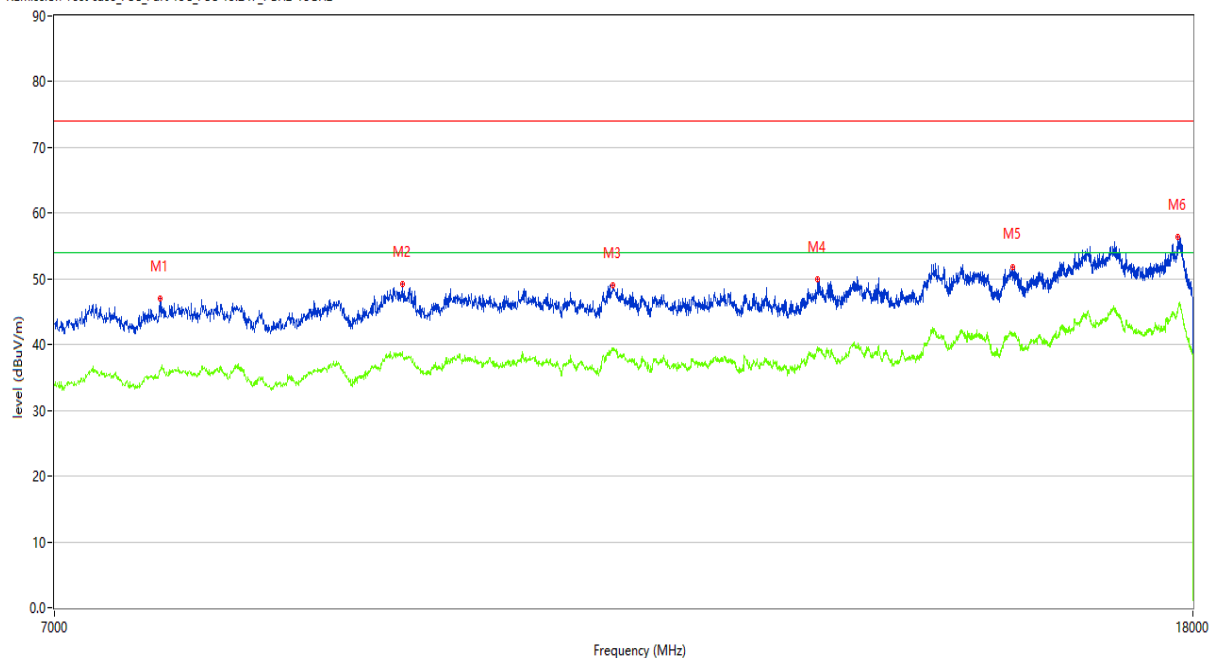
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7GHz-18GHz, Vertical

REmission Test case_FCC_Part 15C_FCC 15.247_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7643.339	46.96	4.58	74.0	-27.04	Peak	52.90	100	Vertical	Pass
1**	7643.339	36.22	4.58	54.0	-17.78	AV	52.90	100	Vertical	Pass
2	9339.665	49.26	9.67	74.0	-24.74	Peak	212.90	100	Vertical	Pass
2**	9339.665	38.94	9.67	54.0	-15.06	AV	212.90	100	Vertical	Pass
3	11123.969	49.05	10.71	74.0	-24.95	Peak	343.20	100	Vertical	Pass
3**	11123.969	39.58	10.71	54.0	-14.42	AV	343.20	100	Vertical	Pass
4	13185.954	49.98	12.30	74.0	-24.02	Peak	282.10	100	Vertical	Pass
4**	13185.954	39.64	12.30	54.0	-14.36	AV	282.10	100	Vertical	Pass
5	15503.624	51.88	15.33	74.0	-22.12	Peak	25.40	100	Vertical	Pass
5**	15503.624	41.35	15.33	54.0	-12.65	AV	25.40	100	Vertical	Pass
6	17782.804	56.37	21.18	74.0	-17.63	Peak	265.00	100	Vertical	Pass
6**	17782.804	45.38	21.18	54.0	-8.62	AV	265.00	100	Vertical	Pass

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4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209 RSS-247 5.5
Requirement	: ANSI C63.10-2013, KDB 558074
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1
Ambient temperature	: 25°C
Relative humidity	: 52%

For details refer to following test plot.

TEST REPORT

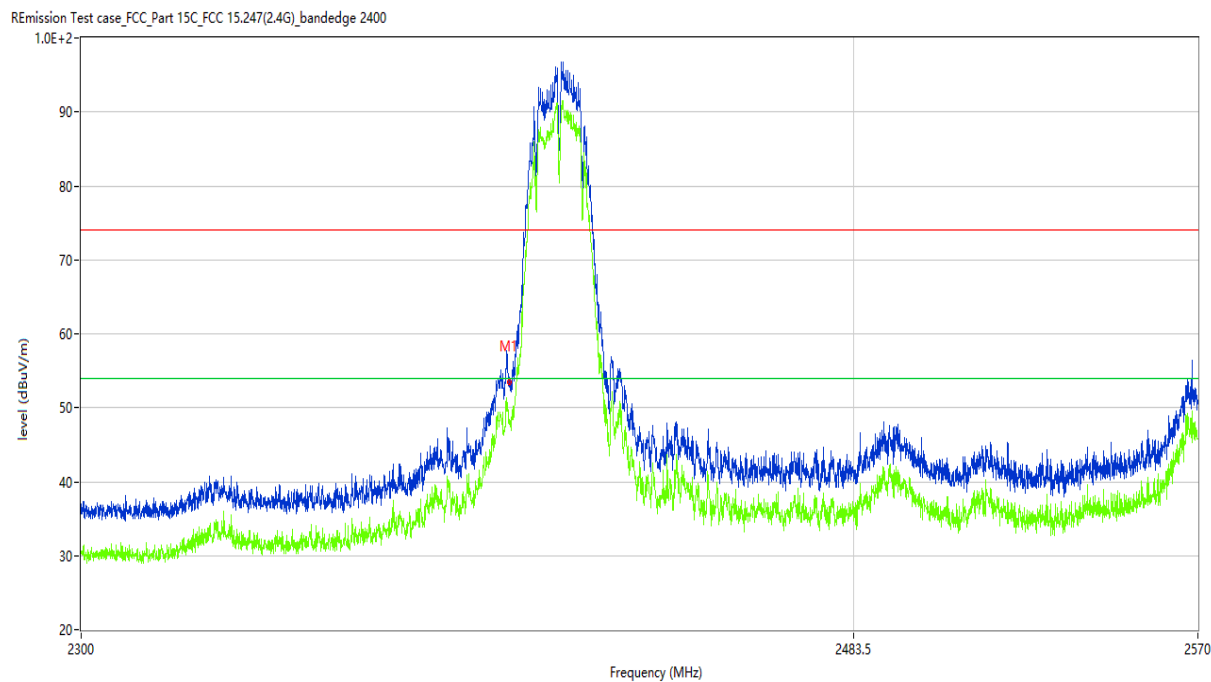
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Figure 38: Band Edge (Restricted-band band-edge), 802.11b, 2412MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	53.59	-4.18	74.0	-20.41	Peak	52.07	100	H	Pass
1**	2400.000	48.45	-4.18	54.0	-5.55	AV	52.07	100	H	Pass

TEST REPORT

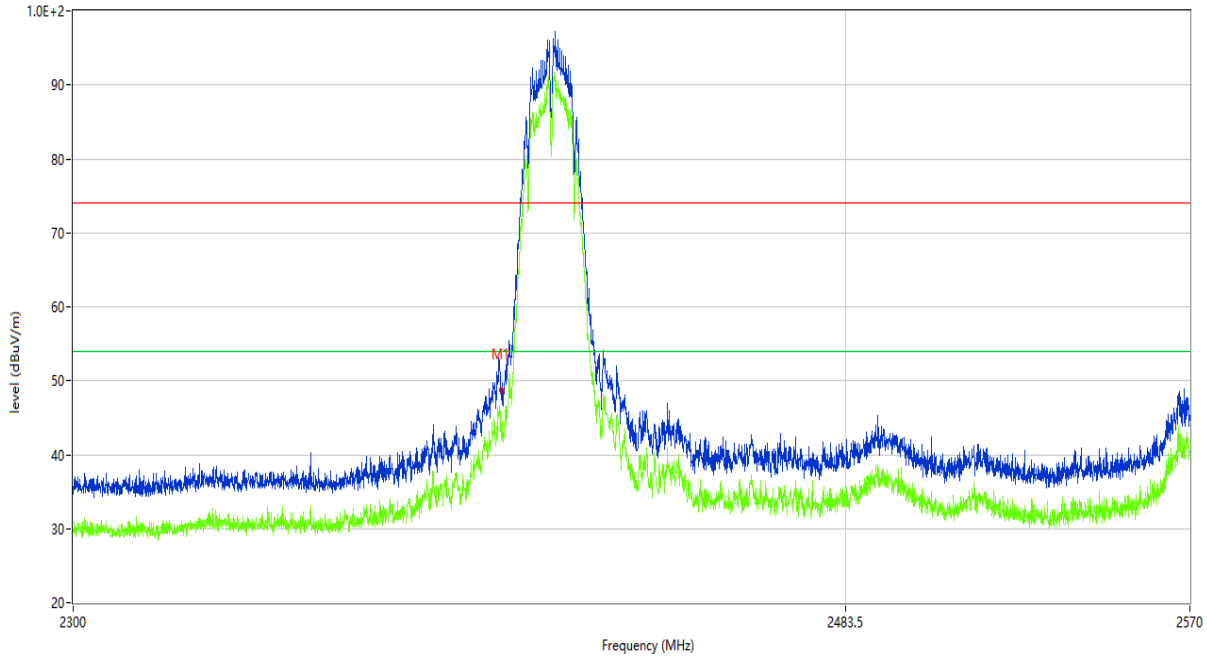
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Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_bandedge 2400



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	48.67	-4.18	74.0	-25.33	Peak	103.46	100	V	Pass
1**	2400.000	42.81	-4.18	54.0	-11.19	AV	103.46	100	V	Pass

TEST REPORT

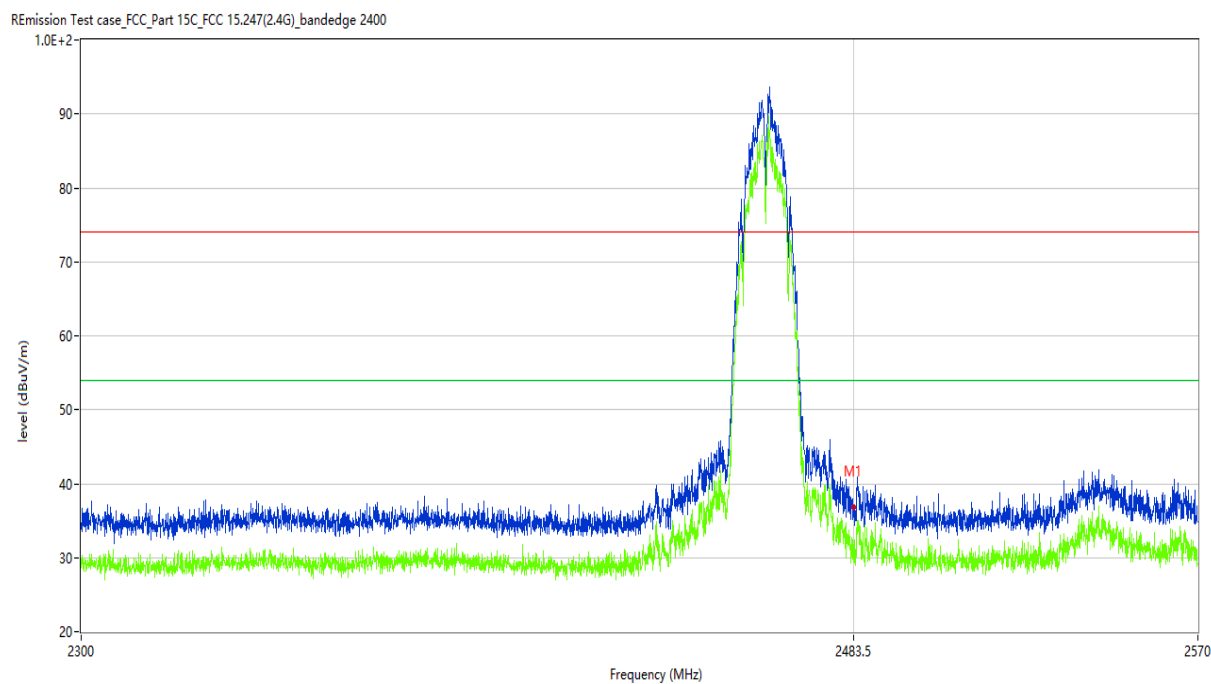
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Figure 39: Band Edge (Restricted-band band-edge), 802.11b, 2462MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	36.60	-3.87	74.0	-37.40	Peak	339.50	100	H	Pass
1**	2483.500	29.69	-3.87	54.0	-24.31	AV	339.50	100	H	Pass

TEST REPORT

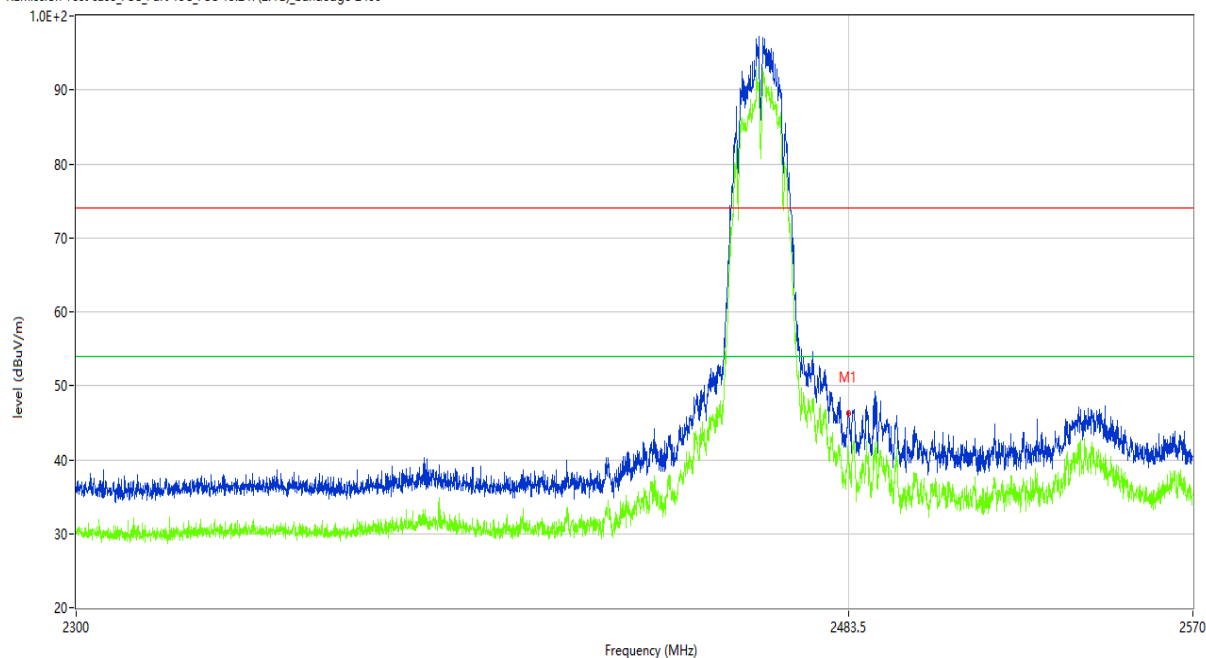
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Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_bandedge 2400



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	46.23	-3.87	74.0	-27.77	Peak	98.86	100	V	Pass
1**	2483.500	40.07	-3.87	54.0	-13.93	AV	98.86	100	V	Pass

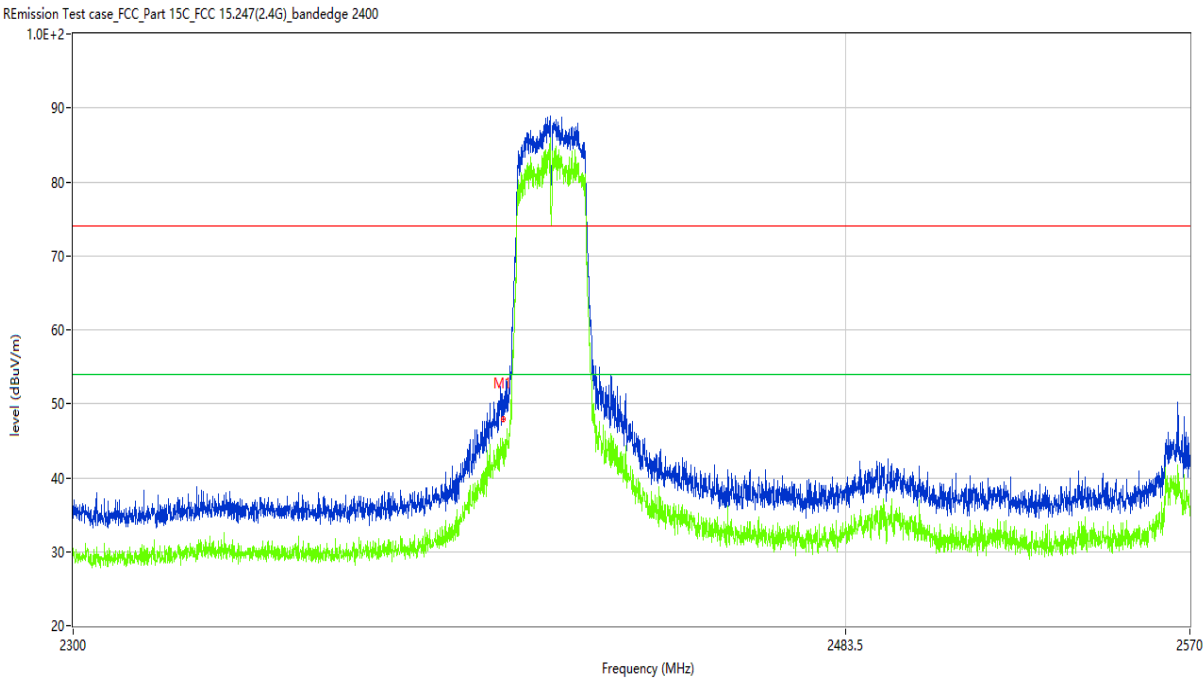
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Figure 40: Band Edge (Restricted-band band-edge), 802.11g, 2412MHz
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	47.69	-4.18	74.0	-26.31	Peak	319.96	100	H	Pass
1**	2400.000	43.35	-4.18	54.0	-10.65	AV	319.96	100	H	Pass

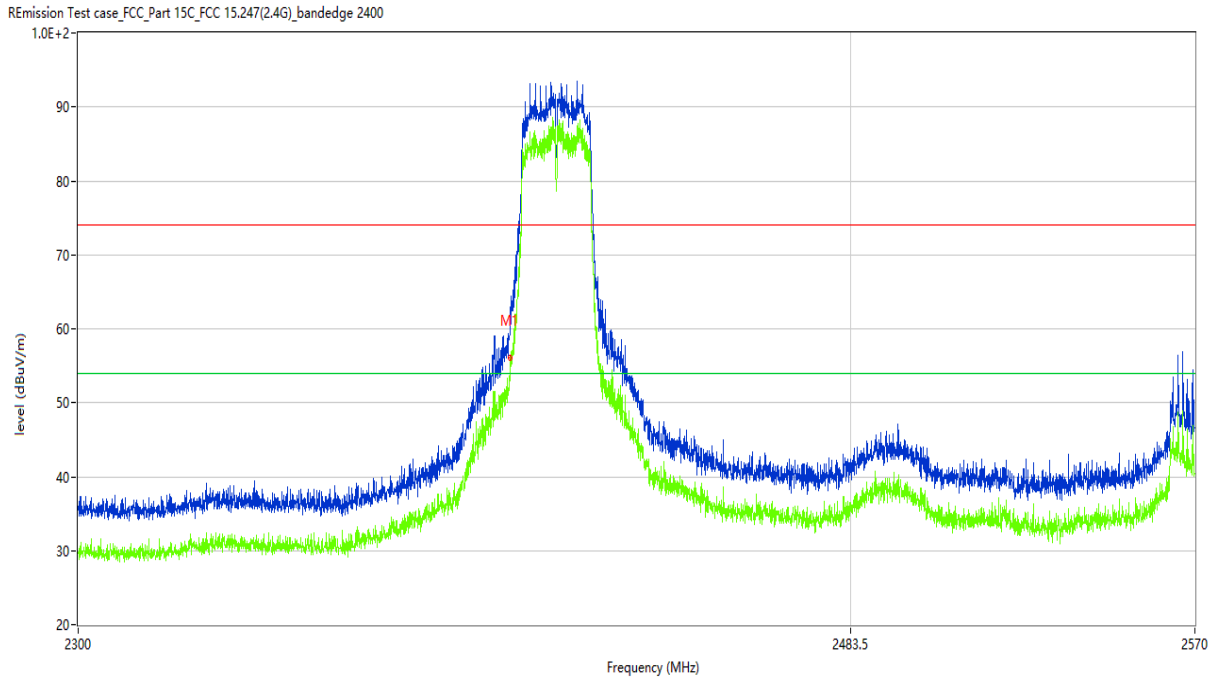
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	56.25	-4.18	74.0	-17.75	Peak	123.75	100	V	Pass
1**	2400.000	50.87	-4.18	54.0	-3.13	AV	123.75	100	V	Pass

TEST REPORT

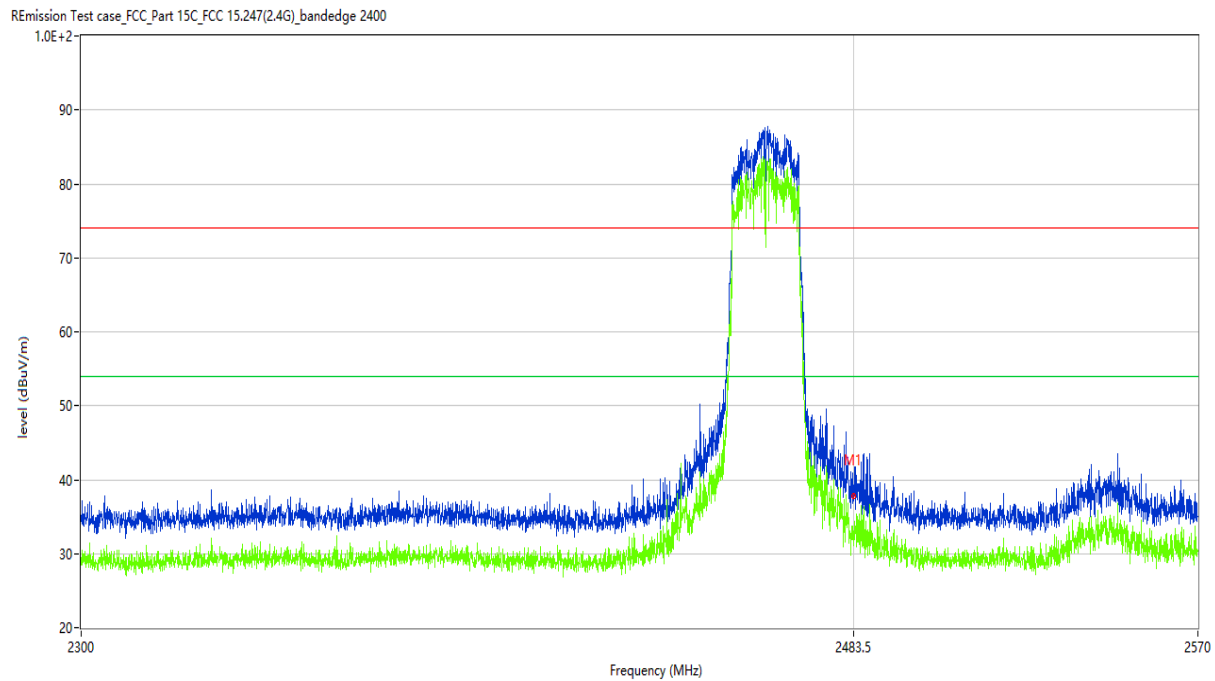
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Figure 41: Band Edge (Restricted-band band-edge), 802.11g, 2462MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	37.92	-3.87	74.0	-36.08	Peak	345.50	100	H	Pass
1**	2483.500	32.96	-3.87	54.0	-21.04	AV	345.50	100	H	Pass

TEST REPORT

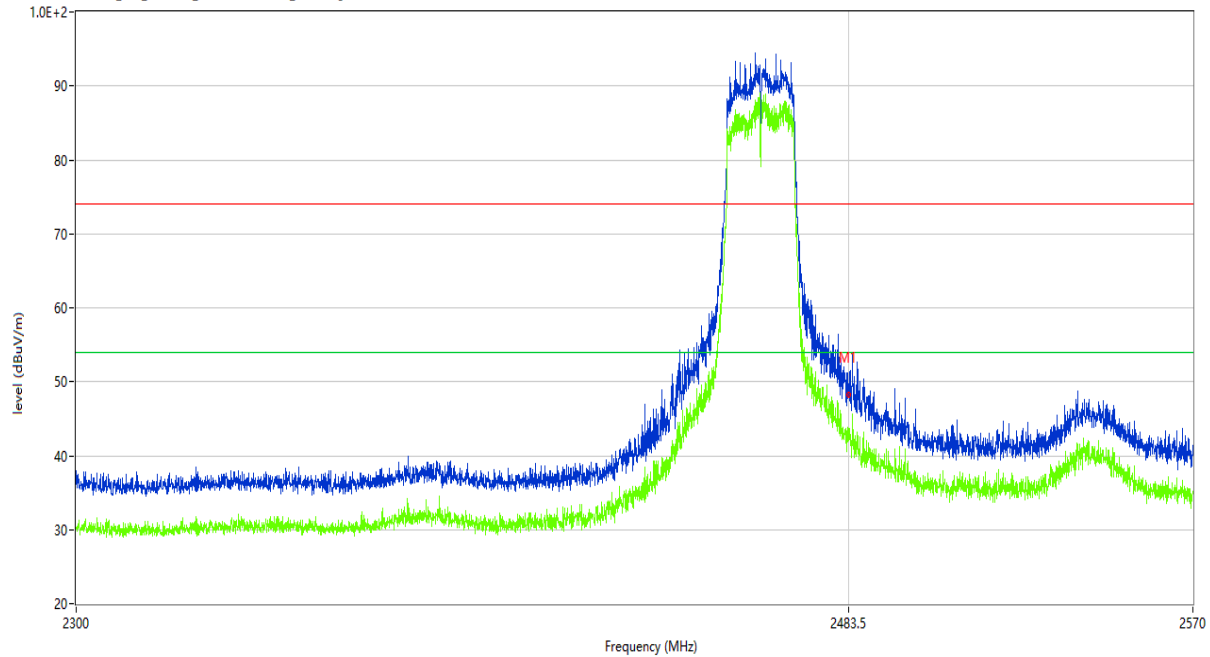
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Vertical

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_bandedge 2400



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	48.47	-3.87	74.0	-25.53	Peak	137.69	100	V	Pass
1**	2483.500	43.37	-3.87	54.0	-10.63	AV	137.69	100	V	Pass

TEST REPORT

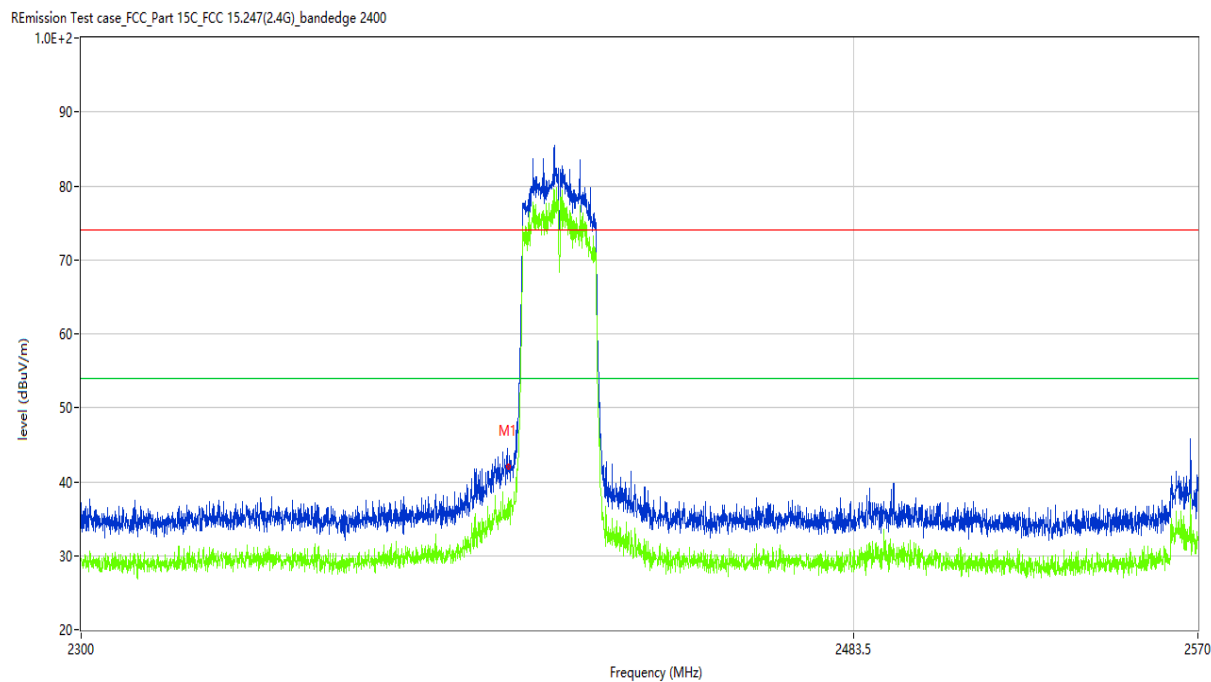
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Figure 42: Band Edge (Restricted-band band-edge), 802.11n(HT20), 2412MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	42.02	-4.18	74.0	-31.98	Peak	12.14	100	H	Pass
1**	2400.000	36.97	-4.18	54.0	-17.03	AV	12.14	100	H	Pass

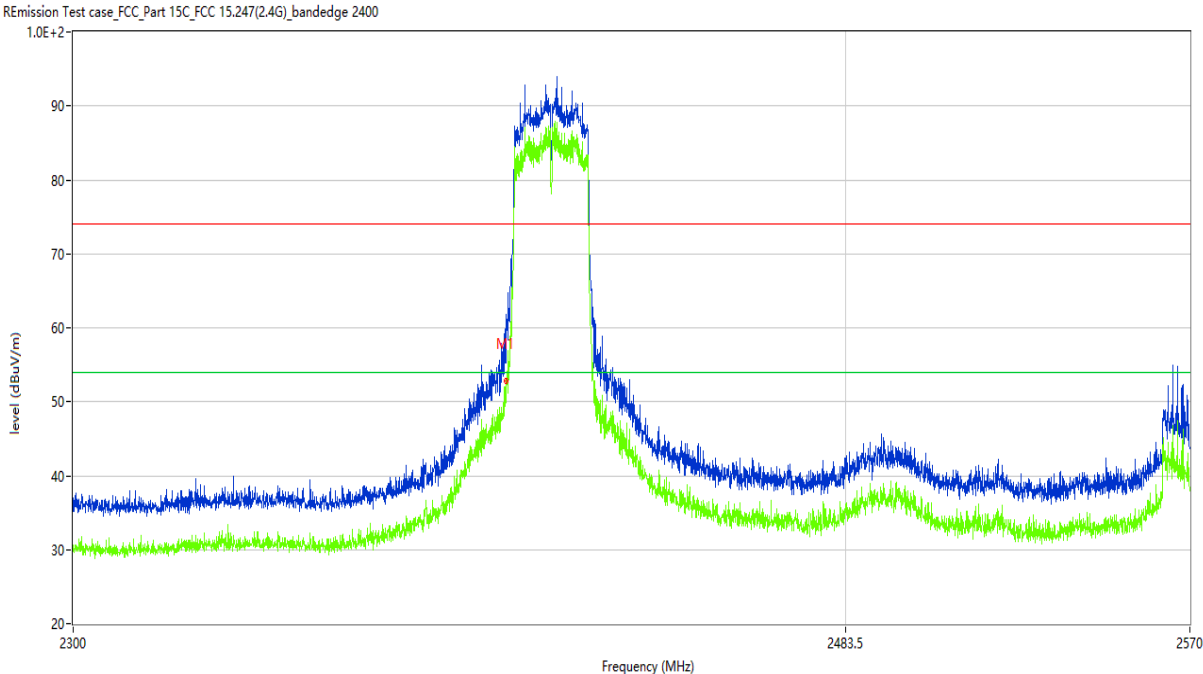
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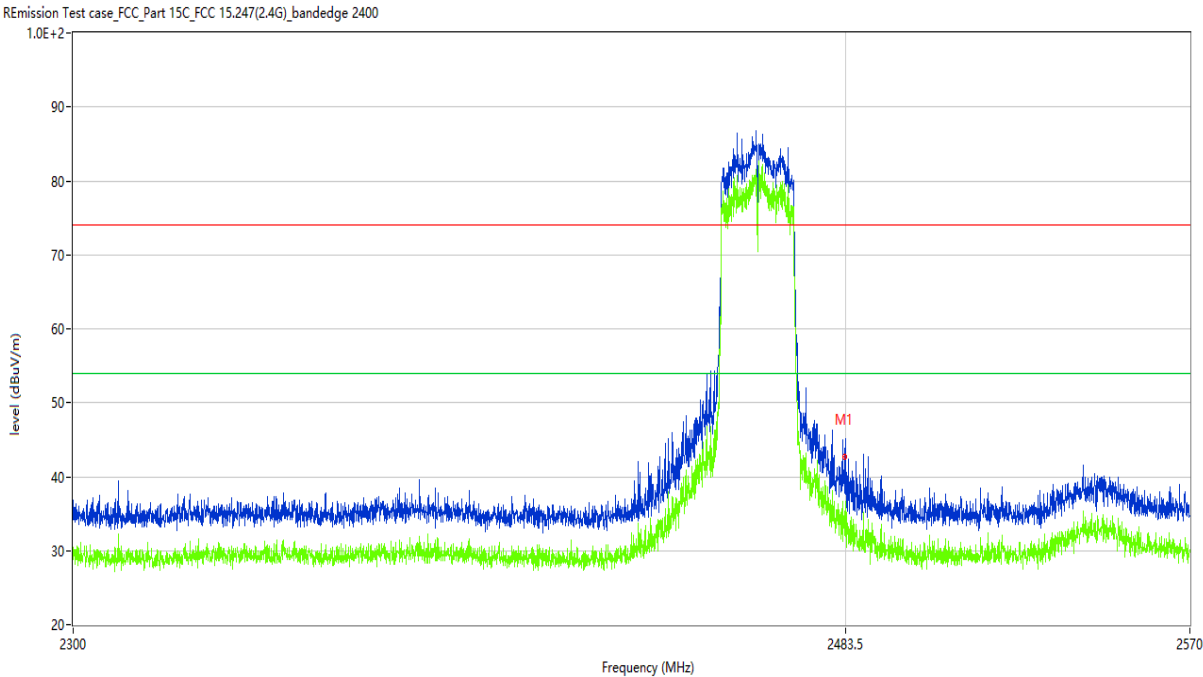
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	52.80	-4.18	74.0	-21.20	Peak	124.70	100	V	Pass
1**	2400.000	48.42	-4.18	54.0	-5.58	AV	124.70	100	V	Pass

TEST REPORT

Figure 43: Band Edge (Restricted-band band-edge), 802.11n(HT20), 2462MHz
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	43.72	-3.87	74.0	-30.28	Peak	346.05	100	H	Pass
1**	2483.500	35.95	-3.87	54.0	-18.05	AV	346.05	100	H	Pass

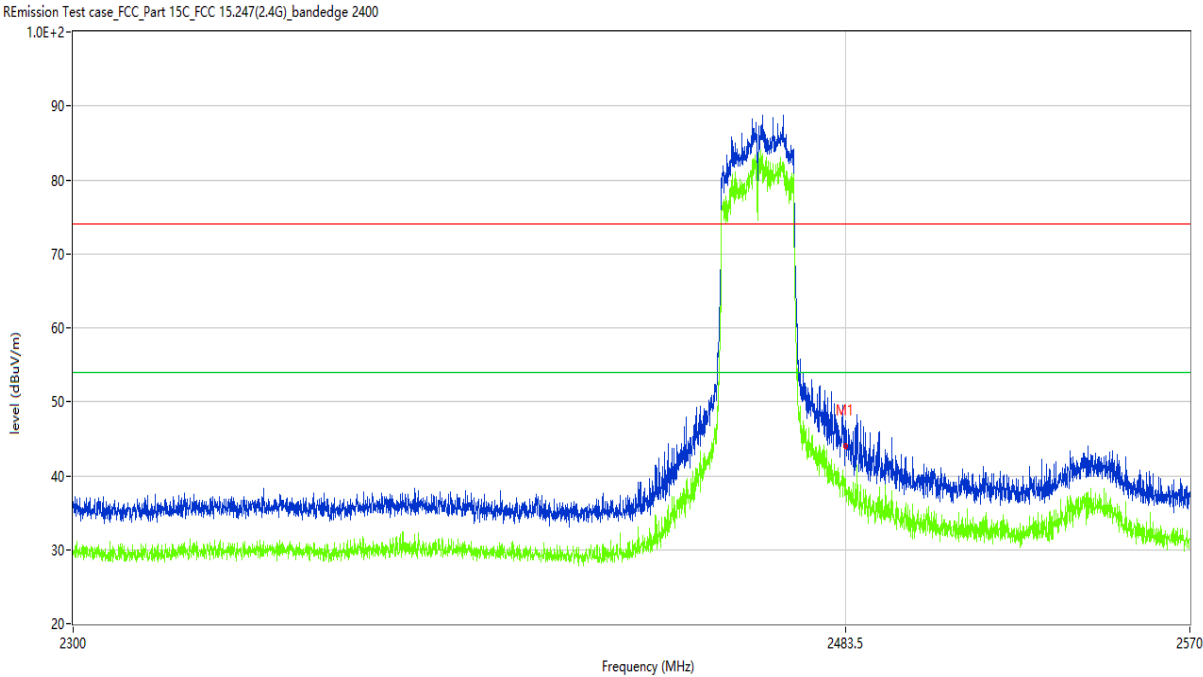
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	43.95	-3.87	74.0	-30.05	Peak	302.30	100	V	Pass
1**	2483.500	37.83	-3.87	54.0	-16.17	AV	302.30	100	V	Pass

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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a) RSS-Gen 8.8
Requirement	: ANSI C63.10-2013
Kind of test site	: Shielded room

Test setup

Input Voltage	: AC 120V, 60Hz; AC 240V, 50Hz
Operation Mode	: A
Earthing	: Not Connected
Ambient temperature	: 25°C
Relative humidity	: 52%

For details refer to following test plot.

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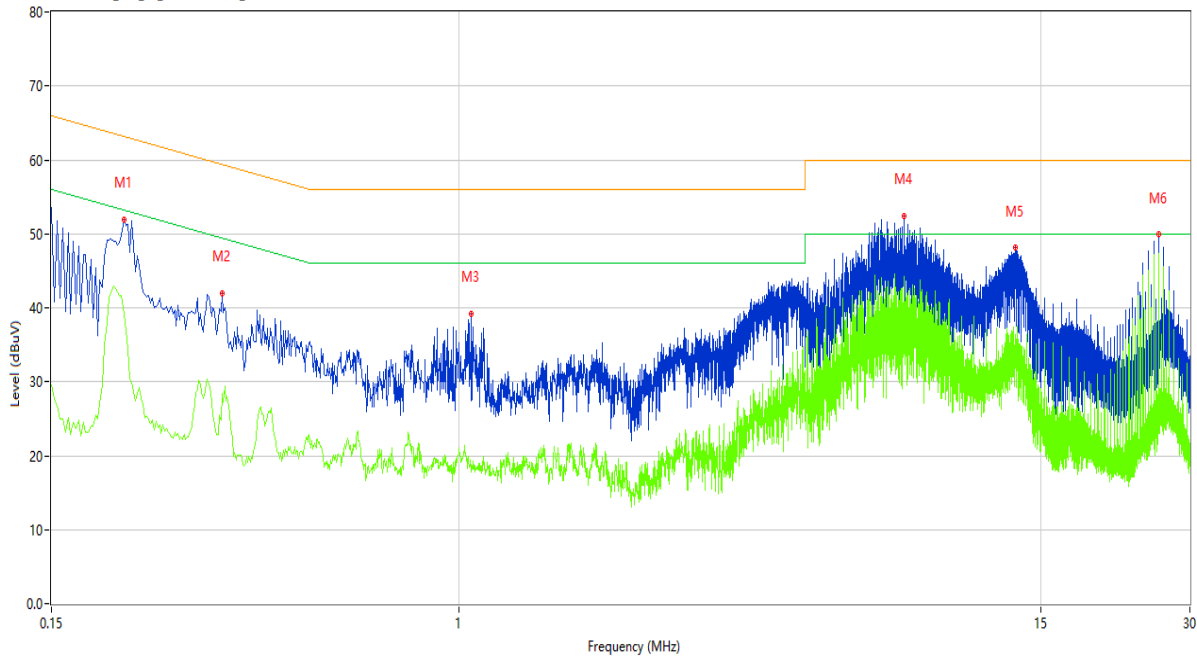
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Note:

The all configurations were tested respectively, but only the worst configuration shown here.

Figure 44: Conducted Emission on AC Mains, L Phase

CEmission Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.210	53.31	10.15	63.21	-9.90	Peak	L	Pass
1*	0.210	47.88	10.15	63.21	-15.33	QP	L	Pass
1**	0.210	39.26	10.15	53.21	-13.95	AV	L	Pass
2	0.332	41.98	10.14	59.40	-17.42	Peak	L	Pass
2*	0.332	36.56	10.14	59.40	-22.84	QP	L	Pass
2**	0.332	28.44	10.14	49.40	-20.96	AV	L	Pass
3	1.058	40.80	10.15	56.00	-15.20	Peak	L	Pass
3*	1.058	29.11	10.15	56.00	-26.89	QP	L	Pass
3**	1.058	18.67	10.15	46.00	-27.33	AV	L	Pass
4	7.932	54.37	10.33	60.00	-5.63	Peak	L	Pass
4*	7.932	49.36	10.33	60.00	-10.64	QP	L	Pass
4**	7.932	42.07	10.33	50.00	-7.93	AV	L	Pass
5	13.292	48.49	10.46	60.00	-11.51	Peak	L	Pass
5*	13.292	45.06	10.46	60.00	-14.94	QP	L	Pass
5**	13.292	34.11	10.46	50.00	-15.89	AV	L	Pass
6	25.968	50.58	10.52	60.00	-9.42	Peak	L	Pass
6*	25.968	48.07	10.52	60.00	-11.93	QP	L	Pass
6**	25.968	44.27	10.52	50.00	-5.73	AV	L	Pass

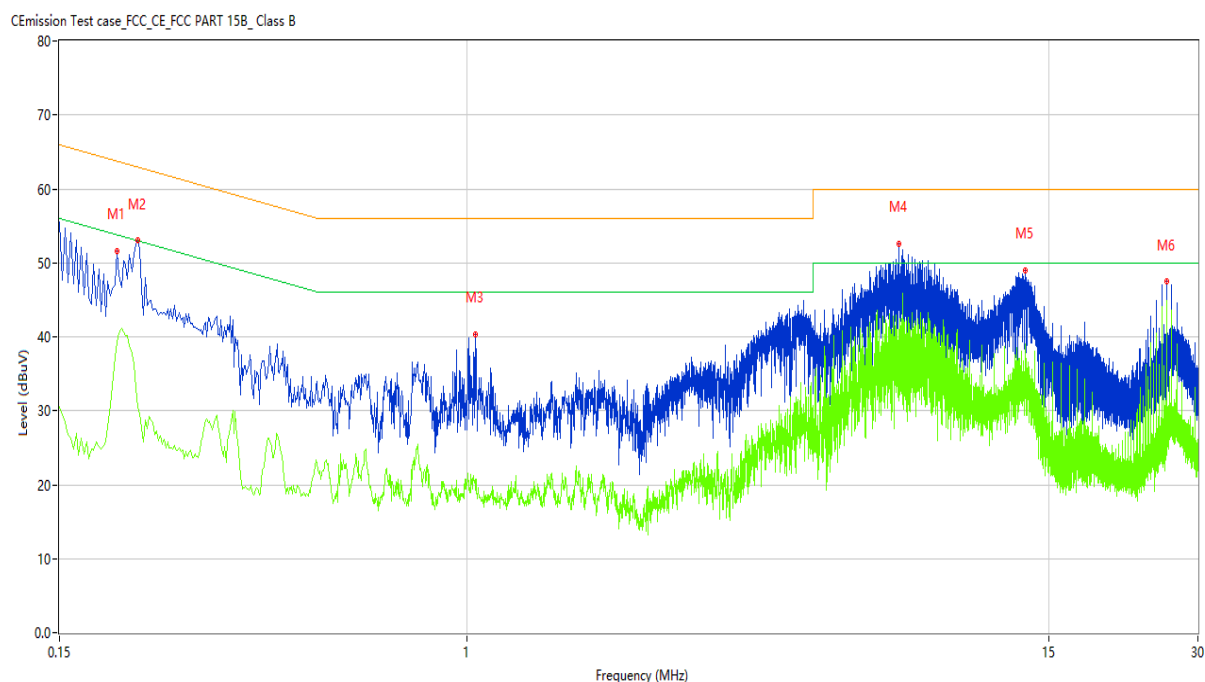
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Figure 45: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.196	53.01	10.15	63.78	-10.77	Peak	N	Pass
1*	0.196	46.85	10.15	63.78	-16.93	QP	N	Pass
1**	0.196	39.21	10.15	53.78	-14.57	AV	N	Pass
2	0.216	53.30	10.14	62.97	-9.67	Peak	N	Pass
2*	0.216	47.47	10.14	62.97	-15.50	QP	N	Pass
2**	0.216	30.51	10.14	52.97	-22.46	AV	N	Pass
3	1.038	41.78	10.15	56.00	-14.22	Peak	N	Pass
3*	1.038	30.51	10.15	56.00	-25.49	QP	N	Pass
3**	1.038	20.79	10.15	46.00	-25.21	AV	N	Pass
4	7.454	52.66	10.32	60.00	-7.34	Peak	N	Pass
4*	7.454	46.54	10.32	60.00	-13.46	QP	N	Pass
4**	7.454	39.88	10.32	50.00	-10.12	AV	N	Pass
5	13.440	49.96	10.45	60.00	-10.04	Peak	N	Pass
5*	13.440	46.06	10.45	60.00	-13.94	QP	N	Pass
5**	13.440	39.01	10.45	50.00	-10.99	AV	N	Pass
6	25.964	49.00	10.52	60.00	-11.00	Peak	N	Pass
6*	25.964	45.79	10.52	60.00	-14.21	QP	N	Pass
6**	25.964	44.91	10.52	50.00	-5.09	AV	N	Pass

End of the report