

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Notebook Computer

ISSUED TO
Samsung Electronics Co., Ltd.

19 Chapin Road, Building D, Pine Brook, New Jersey, United States,
07058



Tested by: Ye Hongji

Ye Hongji

Date Oct. 24, 2020

Approved by: Liao Jianming

Liao Jianming

(Technical Director)

Date Oct. 29, 2020

Report No.: BL-SZ2090237-603

EUT Name: Notebook Computer

Model Name: NT550XDA (refer section 2.4)

Brand Name: Samsung

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: ZCANP550XDAC

Test Conclusion: Pass

Test Date: Sep. 25, 2020 ~ Oct. 20, 2020

Date of Issue: Oct. 29, 2020

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Oct. 29, 2020</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	ADMINISTRATIVE DATA (GENERAL INFORMATION)	5
1.1	Identification of the Testing Laboratory	5
1.2	Identification of the Responsible Testing Location	5
1.3	Laboratory Condition	5
1.4	Announce	6
2	PRODUCT INFORMATION.....	7
2.1	Applicant Information.....	7
2.2	Manufacturer Information	7
2.3	Factory Information	7
2.4	General Description for Equipment under Test (EUT)	7
2.5	Technical Information	8
2.6	Additional Instructions	11
3	SUMMARY OF TEST RESULTS.....	12
3.1	Test Standards	12
3.2	Verdict	12
4	GENERAL TEST CONFIGURATIONS.....	13
4.1	Test Environments	13
4.2	Test Equipment List.....	13
4.3	Measurement Uncertainty	14
4.4	Description of Test Setup	15
4.4.1	For Antenna Port Test	15
4.4.2	For AC Power Supply Port Test	15
4.4.3	For Radiated Test (Below 30 MHz)	16
4.4.4	For Radiated Test (30 MHz-1 GHz)	16
4.4.5	For Radiated Test (Above 1 GHz).....	17
4.5	Measurement Results Explanation Example.....	18

4.5.1	For conducted test items:	18
4.5.2	For radiated band edges and spurious emission test:.....	18
5	TEST ITEMS.....	19
5.1	Antenna Requirements.....	19
5.1.1	Relevant Standards.....	19
5.1.2	Antenna Anti-Replacement Construction	19
5.1.3	Antenna Gain	19
5.2	Output Power	20
5.2.1	Test Limit.....	20
5.2.2	Test Setup	20
5.2.3	Test Procedure	20
5.2.4	Test Result	21
5.3	6dB Bandwidth	22
5.3.1	Limit.....	22
5.3.2	Test Setup	22
5.3.3	Test Procedure	22
5.3.4	Test Result	22
5.4	Conducted Spurious Emission	23
5.4.1	Limit.....	23
5.4.2	Test Setup	23
5.4.3	Test Procedure	23
5.4.4	Test Result	24
5.5	Band Edge (Authorized-band band-edge).....	25
5.5.1	Limit.....	25
5.5.2	Test Setup	25
5.5.3	Test Procedure	25
5.5.4	Test Result	26
5.6	Conducted Emission	27
5.6.1	Limit.....	27
5.6.2	Test Setup	27
5.6.3	Test Procedure	27
5.6.4	Test Result	27

5.7	Radiated Spurious Emission	28
5.7.1	Limit.....	28
5.7.2	Test Setup	28
5.7.3	Test Procedure	28
5.7.4	Test Result	31
5.8	Band Edge (Restricted-band band-edge).....	32
5.8.1	Limit.....	32
5.8.2	Test Setup	32
5.8.3	Test Procedure	32
5.8.4	Test Result	32
5.9	Power Spectral density (PSD).....	33
5.9.1	Limit.....	33
5.9.2	Test Setup	33
5.9.3	Test Procedure	33
5.9.4	Test Result	33
ANNEX A	TEST RESULT	34
A.1	Output Power	34
A.2	Bandwidth.....	38
A.3	Conducted Spurious Emissions	48
A.4	Band Edge (Authorized-band band-edge).....	66
A.5	Conducted Emissions.....	74
A.6	Radiated Emission	78
A.7	Band Edge (Restricted-band band-edge).....	130
A.8	Power Spectral Density (PSD)	149
ANNEX B	TEST SETUP PHOTOS	155
ANNEX C	EUT EXTERNAL PHOTOS.....	155
ANNEX D	EUT INTERNAL PHOTOS	155

1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v6.4.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Samsung Electronics Co., Ltd.
Address	19 Chapin Road, Building D, Pine Brook, New Jersey, United States, 07058

2.2 Manufacturer Information

Manufacturer	Nanchang Huaqin Electronic Technology Co Ltd
Address	No.2999, Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, P.R. China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Notebook Computer
Model Name Under Test	NT550XDA
Series Model Name	550XDA, NT550XDZ, 550XDZ, NT551XDA, NP550XDA, NT550XDA
Description of Model name differentiation	Only differences are model names for trading purpose.
Serial Number	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	359.26 x 241.3 x18.85mm

Antenna Information:

Antenna Port	Model Name	Antenna Manufacturer	Antenna Type	Antenna Gain (dBi)			
				2.4 GHz	5.15-5.35 GHz	5.47-5.725 GHz	5.725-5.85 GHz
Main Antenna	F-0G-XZ-0236-000-00	Speed	PIFA	0.85	2.90	2.05	1.59
Auxiliary Antenna	F-0G-XZ-0237-000-00		PIFA	1.71	-1.00	0.29	0.26
Main Antenna	N12-7050-R0A	South Star	PIFA	0.29	2.47	2.41	2.51
Auxiliary Antenna	N12-7051-R0A		PIFA	1.80	1.82	1.49	1.44

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac U-NII-1/2A/2C/3
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n (20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1) * 5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n (40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1) * 5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.	
Modulation Type	DSSS, OFDM, OFDMA	
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11n Basic methodology with <i>NANT</i> transmit antennas, each with the same directional gain <i>GANT</i> dBi for 802.11b/g	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated	
Antenna Type	Main Antenna	PIFA Antenna
	Aux. Antenna	
Antenna Gain	Main Antenna	Speed: 0.85 dBi South Star: 0.29 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
	Aux. Antenna	Speed: 1.71 dBi South Star: 1.80 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
Total directional gain	For power spectral density(PSD) measurements	Speed: 4.71 dBi South Star: 4.80 dBi Formulas: Directional gain = <i>GANT</i> + Array Gain, <i>Array Gain</i> = $10 \log(NANT/NSS) \text{ dB}$. <i>NSS</i> =1, <i>GANT</i> set equal to the gain of the antenna having the highest gain.
	For power measurements	Speed: 1.71 dBi South Star: 1.80 dBi Formulas: Directional gain = <i>GANT</i> + Array Gain, <i>Array Gain</i> = 0, <i>GANT</i> set equal to the gain of the antenna having the highest gain.
	For Conducted Out-of-Band and Spurious Measurements	Speed: 4.71 dBi South Star: 4.80 dBi Formulas: Directional gain = <i>GANT</i> + Array Gain, <i>Array Gain</i> = $10 \log(NANT/NSS) \text{ dB}$. <i>NSS</i> =1, <i>GANT</i> set equal to

	the gain of the antenna having the highest gain.
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n(HT20/40) was tested in this report.

Mode	Antenna	
	Main Antenna	Aux. Antenna
802.11b	√	√
802.11g	√	√
802.11n20	√	√
802.11n40	√	√

Note: All the configurations were tested, but only the worst data was shown in this report.

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	
Output Power	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
6dB Bandwidth	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Band Edge	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9

Note: The above EUT information in section 2.4 and 2.6 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.6 Additional Instructions

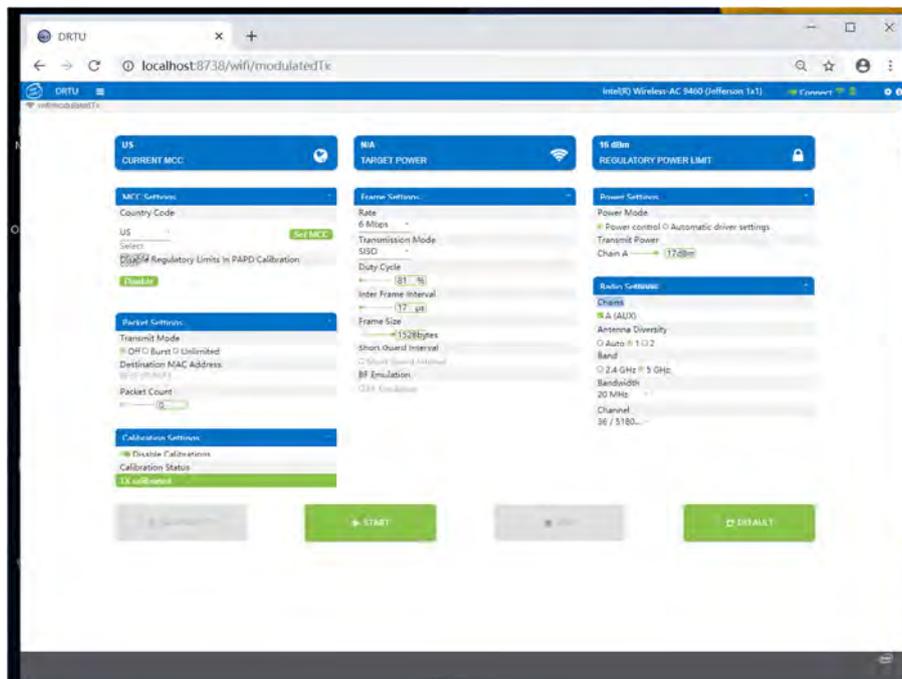
EUT Software Settings:

Mode	<input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
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During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software			
Test Software Version	DRTU		
Mode	Channel	Soft Set	
		Main Antenna	Aux. Antenna
802.11b	1	17.00	17.00
	6	17.00	17.00
	11	17.00	17.00
802.11g	1	15.50	15.50
	6	15.50	15.50
	11	15.50	15.50
802.11n20	1	15.00	15.00
	6	15.00	15.00
	11	15.50	15.50
802.11n40	3	13.50	13.50
	6	13.00	13.00
	9	13.00	13.00

Run software:



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
2	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES
3	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC PART No.	Test Result	Verdict
1	Antenna Requirement	15.203; 15.247(b)	N/A	Pass ^{Note 1}
2	Output Power	15.247(b)	ANNEX A.1	Pass
3	6dB Bandwidth	15.247(a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247(d)	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.209; 15.247(d)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247(d)	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247(d)	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247(e)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	N/A	N/A	N/A ^{Note 2}

Note 1: Please refer to section 5.1.

Note 2: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% - 55%	
Atmospheric Pressure	100 kPa - 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	11.4 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2020.06.08	2021.06.07
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2020.06.08	2021.06.07
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2020.06.09	2021.06.08
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2020.06.09	2021.06.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2020.06.09	2021.06.08
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2020.06.08	2021.06.07
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2020.06.08	2021.06.07
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2020.06.08	2021.06.07
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
Temperature Chamber	AHK	SP20	1412	2020.06.10	2021.06.09
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2019.10.29	2021.10.28
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2021.07.01
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2019.01.06	2021.01.05
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2022.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2018.08.08	2021.08.07
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2020.06.08	2021.06.07
Power Amplifier	OPHIR RF	5225F	1037	2020.02.19	2021.02.18
Power Amplifier	OPHIR RF	5273F	1016	2020.02.19	2021.02.18
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Sound Level Meter	B&K	NL-20	00844023	2019.11.12	2020.11.11
Ear Simulator	B&K	4185	2409449	2019.11.12	2020.11.11

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Ear Simulator	B&K	4195	2418189	2019.11.12	2020.11.11
Audio analyzer	B&K	UPL 16	100129	2019.11.12	2020.11.11

4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Occupied Channel Bandwidth	$\pm 4\%$
RF output power, conducted	± 1.4 dB
Power Spectral Density, conducted	± 2.5 dB
Unwanted Emissions, conducted	± 2.8 dB
All emissions, radiated	± 5.4 dB
Temperature	± 1 °C
Humidity	$\pm 4\%$

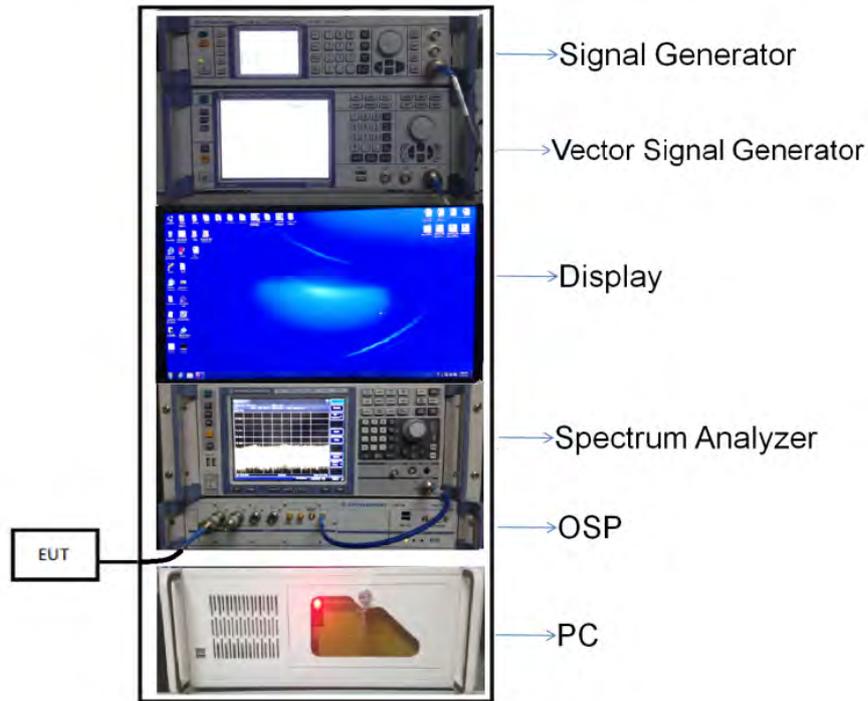
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

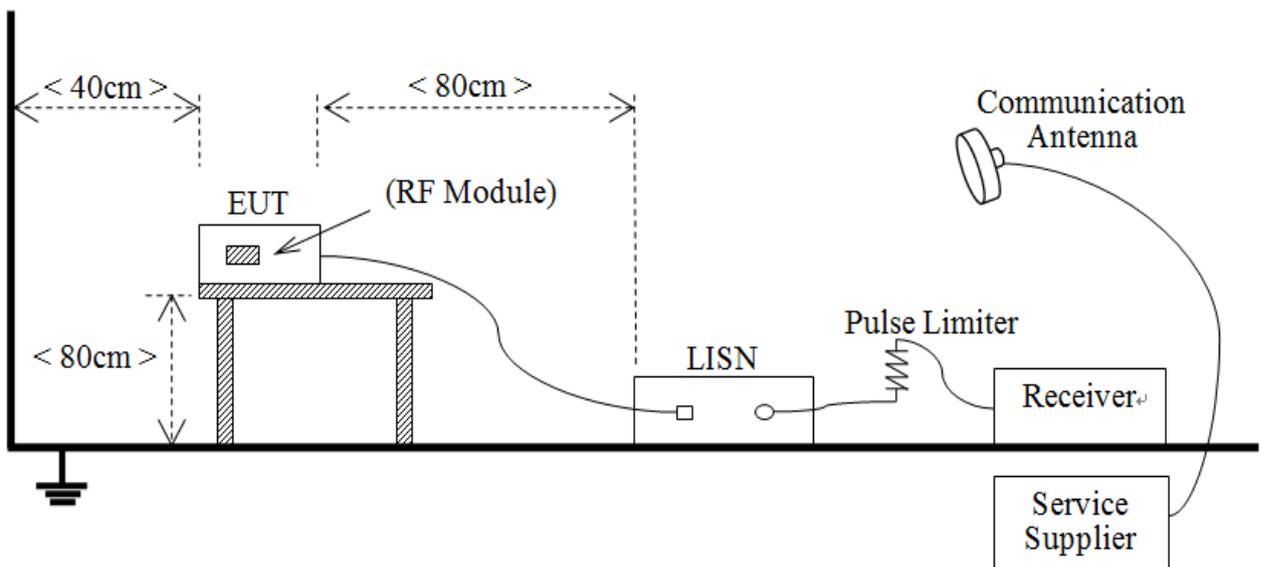
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



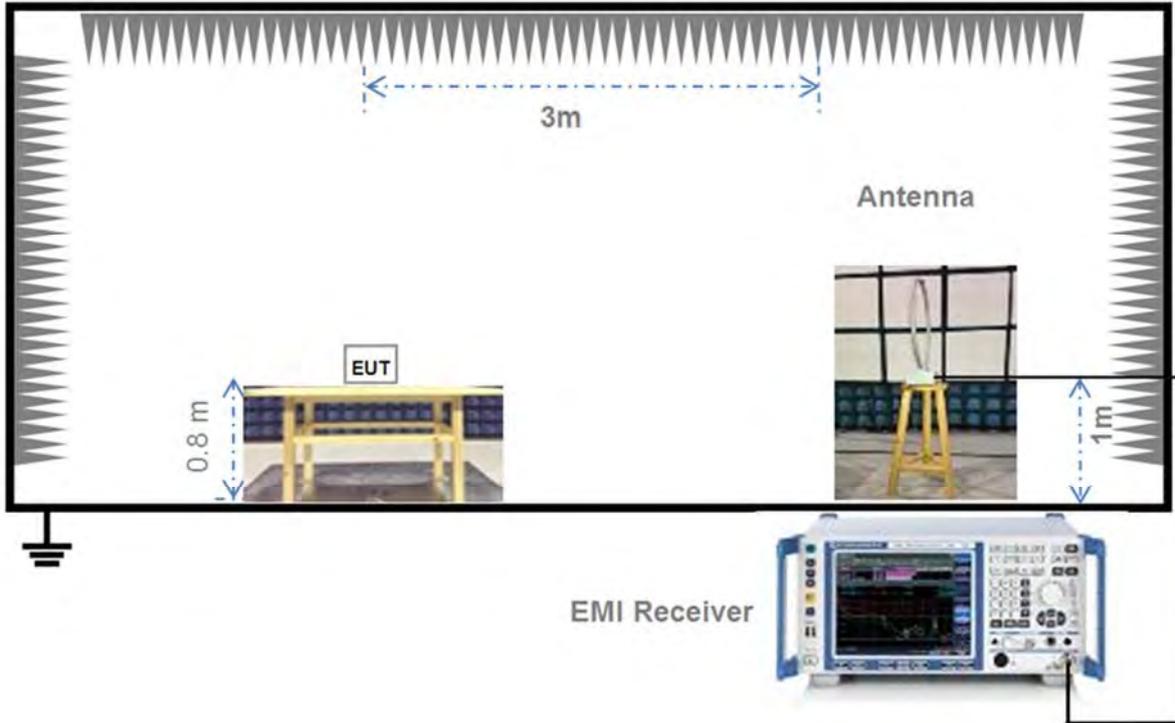
(Diagram 1)

4.4.2 For AC Power Supply Port Test



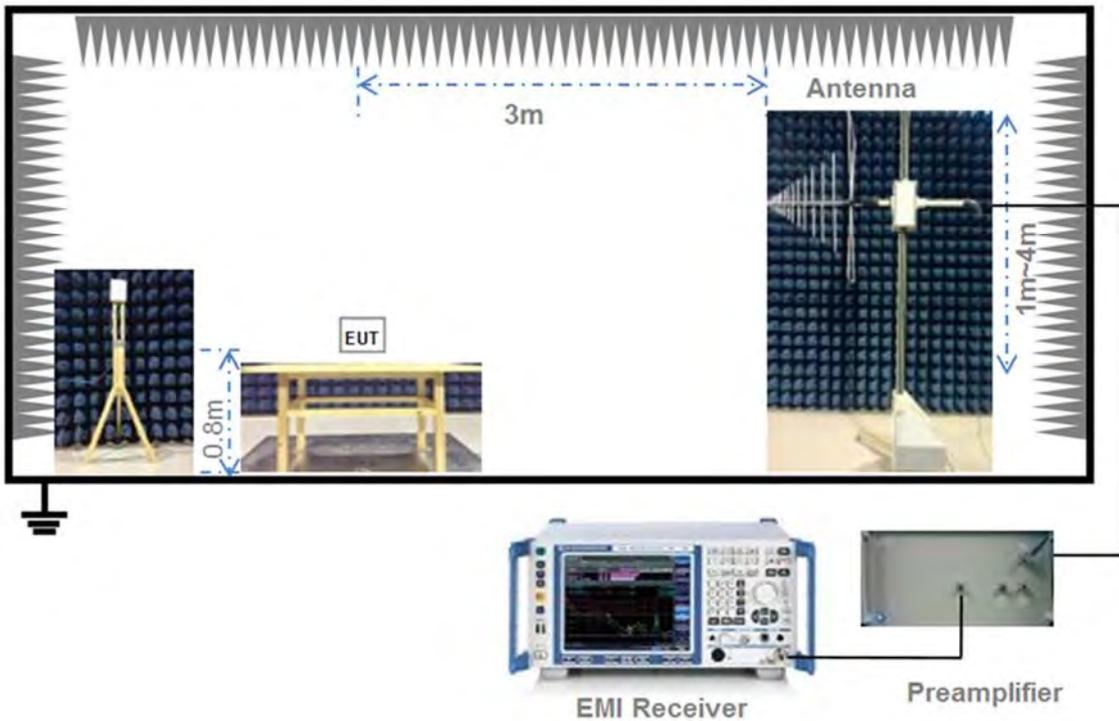
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



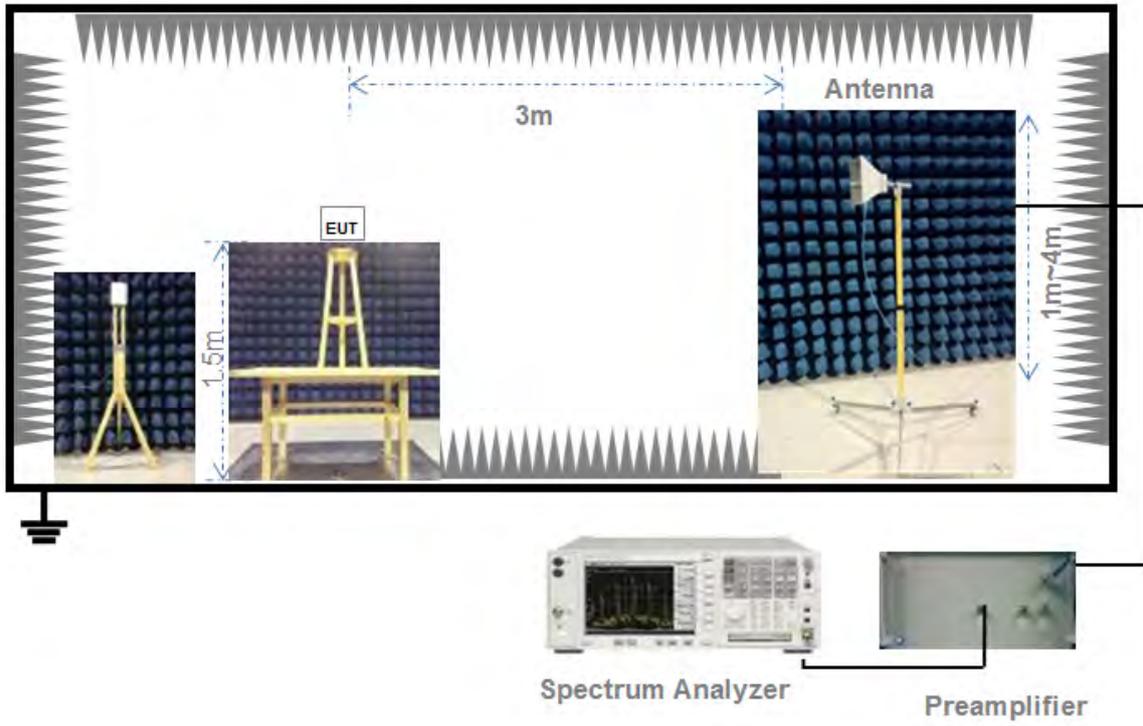
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.5.2 For radiated band edges and spurious emission test:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP= Measure Conducted output power Value (dBm) + Maximum transmit antenna gain (dBi) + the appropriate maximum ground reflection factor (dB)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b); RSS-247, 5.4 (f)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b); RSS-247, 5.4 (d)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Maximum conducted (average) output power (Reporting Only)

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle to the measurement result.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.

Set VBW \geq RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 6dB Bandwidth

5.3.1 Limit

FCC §15.247(a); RSS-GEN, 6.7

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d); RSS-247, 5.5

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.

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d); RSS-GEN, 8.9, RSS-247, 5.5

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.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.6.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(c); RSS-247, 5.5

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.7.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW ≥ 3 x RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz

> 1000 MHz	1 MHz
------------	-------

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(c); RSS-247, 5.5

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.8.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(d); RSS-247, 5.2 (b)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.9.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	Duty Cycle	T (ms)	1/T(kHz)
802.11b	98.56%	12.2619	0.08
802.11g	97.84%	2.03971	0.49
802.11n-20 MHz	97.57%	1.89752	0.53
802.11n-40 MHz	95.37%	0.92894	1.08

Peak Power Test Data

Main Antenna

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.59	90.99	30	1000	Pass
Middle	19.67	92.68			Pass
High	19.82	95.94			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.75	237.14	30	1000	Pass
Middle	23.86	243.22			Pass
High	23.93	247.17			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.11	204.64	30	1000	Pass
Middle	23.21	209.41			Pass
High	23.79	239.33			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.83	152.41	30	1000	Pass
Middle	21.36	136.77			Pass
High	21.52	141.91			Pass

Aux. Antenna

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.77	94.84	30	1000	Pass
Middle	19.70	93.33			Pass
High	19.77	94.84			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.91	246.04	30	1000	Pass
Middle	23.87	243.78			Pass
High	23.97	249.46			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.36	216.77	30	1000	Pass
Middle	23.28	212.81			Pass
High	23.85	242.66			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.94	156.31	30	1000	Pass
Middle	21.51	141.58			Pass
High	21.55	142.89			Pass

Average Power Test Data
Main Antenna

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.80	47.86	30	1000	Pass
Middle	16.84	48.31			Pass
High	16.87	48.64			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.24	33.42	30	1000	Pass
Middle	15.29	33.81			Pass
High	15.37	34.43			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.32	34.04	30	1000	Pass
Middle	15.33	34.12			Pass
High	15.40	34.67			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.34	21.58	30	1000	Pass
Middle	12.96	19.77			Pass
High	12.96	19.77			Pass

Aux. Antenna

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.86	48.53	30	1000	Pass
Middle	16.78	47.64			Pass
High	16.83	48.19			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.32	34.04	30	1000	Pass
Middle	15.28	33.73			Pass
High	15.32	34.04			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.24	33.42	30	1000	Pass
Middle	15.30	33.88			Pass
High	15.36	34.36			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.46	22.18	30	1000	Pass
Middle	12.95	19.72			Pass
High	12.95	19.72			Pass

A.2 Bandwidth

Test Data

Main Antenna

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	10.162598	13.429812	≥ 500
Middle	10.162598	13.429812	≥ 500
High	10.212646	13.429812	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.168945	17.366136	≥ 500
Middle	15.168945	17.308249	≥ 500
High	15.419189	17.366136	≥ 500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.168945	18.350217	≥ 500
Middle	15.218994	18.292330	≥ 500
High	15.218994	18.292330	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.171875	36.100000	≥ 500
Middle	35.171875	36.100000	≥ 500
High	35.171875	36.100000	≥ 500

Aux. Antenna

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	10.162598	13.487699	≥500
Middle	10.212646	13.429812	≥500
High	10.212646	13.429812	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.168945	17.366136	≥500
Middle	15.218994	17.308249	≥500
High	15.218994	17.424023	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.218994	18.350217	≥500
Middle	15.218994	18.292330	≥500
High	15.218994	18.350217	≥500

802.11n-40MHz Mode:

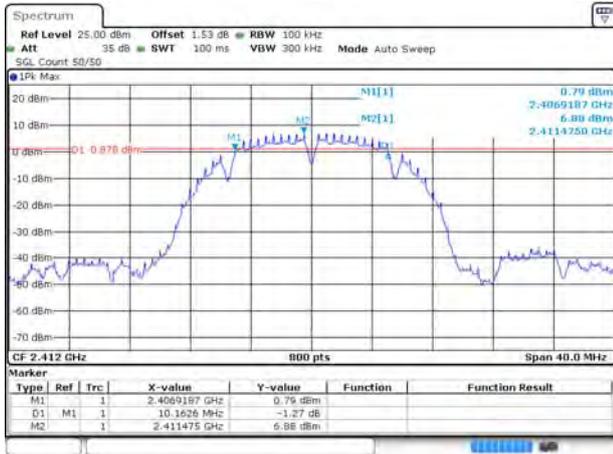
Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.121826	36.100000	≥500
Middle	35.171875	36.100000	≥500
High	35.171875	36.100000	≥500

Test plots

Main Antenna

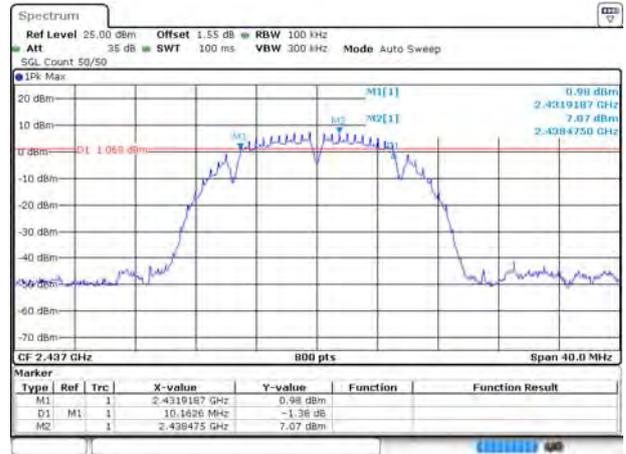
6 dB Bandwidth

802.11b LOW CHANNEL



Date: 15 OCT 2020 09:38:27

802.11b MIDDLE CHANNEL



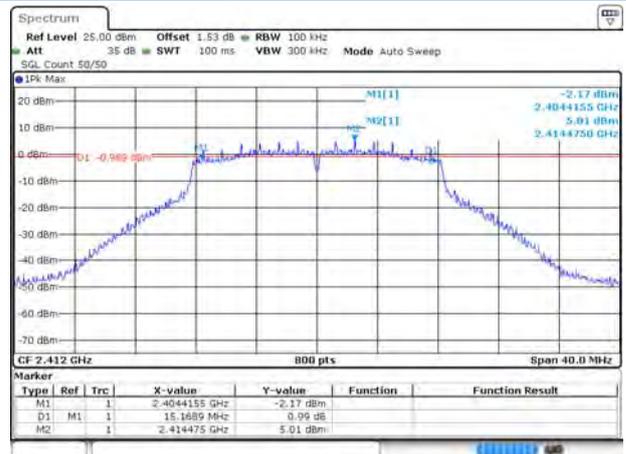
Date: 15 OCT 2020 09:42:54

802.11b HIGH CHANNEL



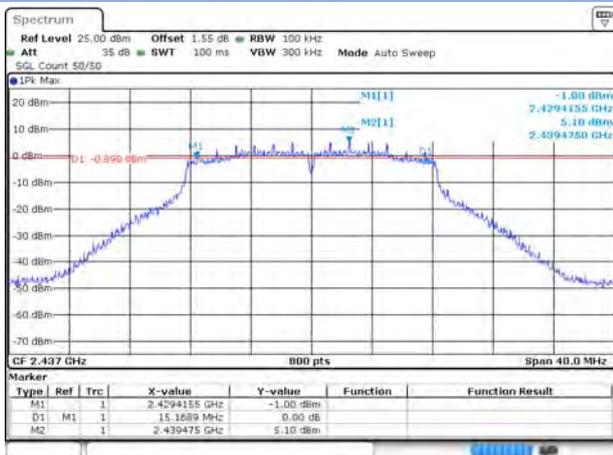
Date: 15 OCT 2020 09:45:01

802.11g LOW CHANNEL



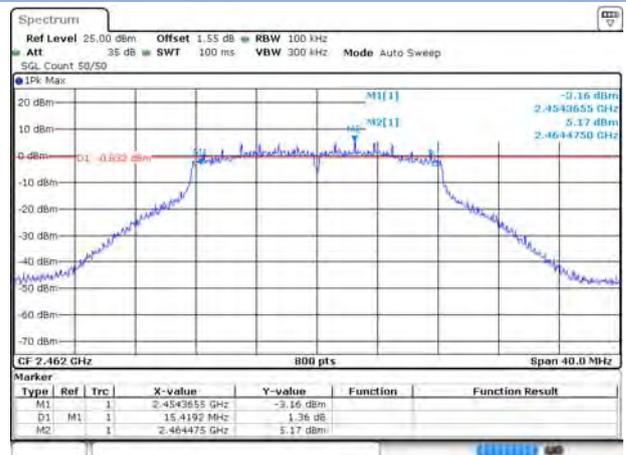
Date: 15 OCT 2020 09:47:49

802.11g MIDDLE CHANNEL



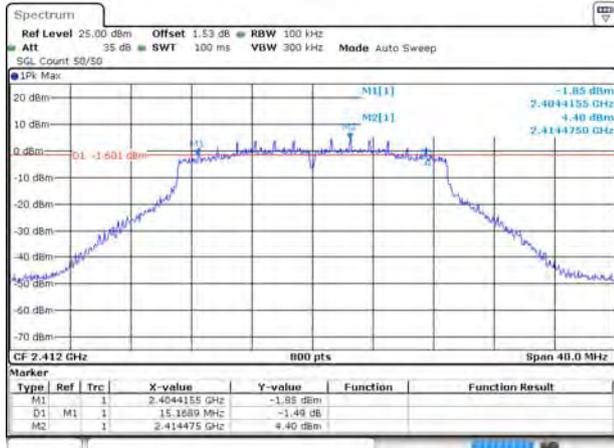
Date: 15 OCT 2020 09:50:32

802.11g HIGH CHANNEL



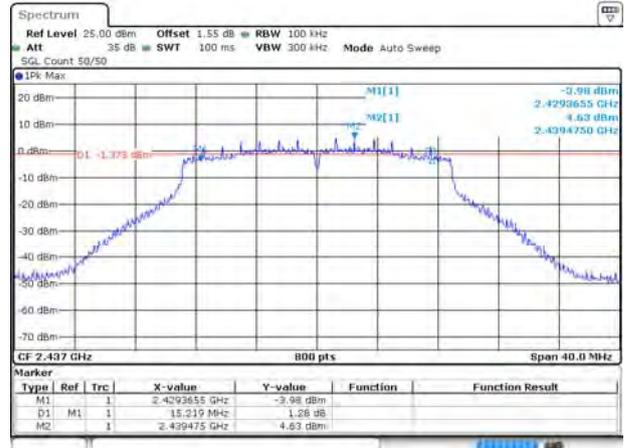
Date: 15 OCT 2020 09:52:36

802.11n-20 MHz LOW CHANNEL



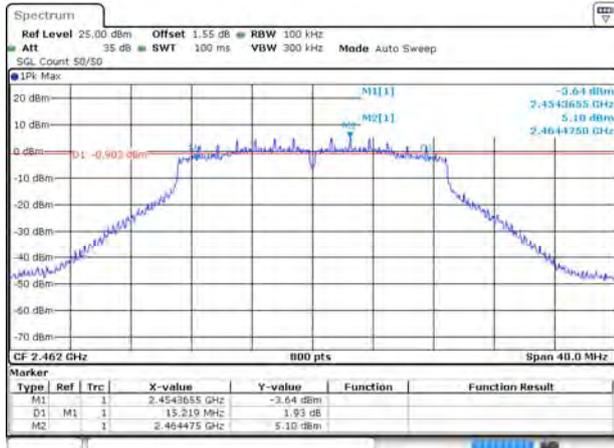
Date: 15 OCT 2020 09:56:00

802.11 n-20 MHz MIDDLE CHANNEL



Date: 15 OCT 2020 09:58:44

802.11n-20 MHz HIGH CHANNEL



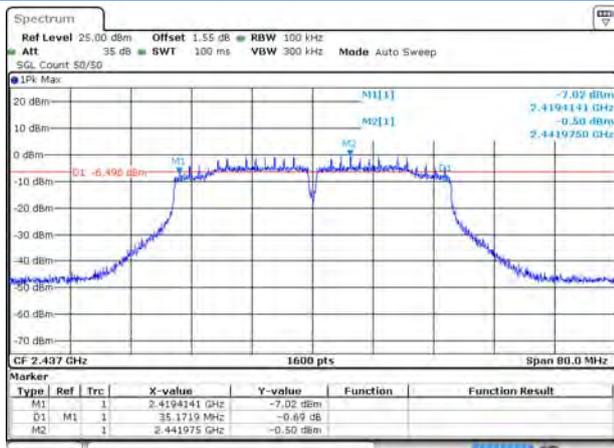
Date: 15 OCT 2020 10:01:12

802.11n-40 MHz LOW CHANNEL



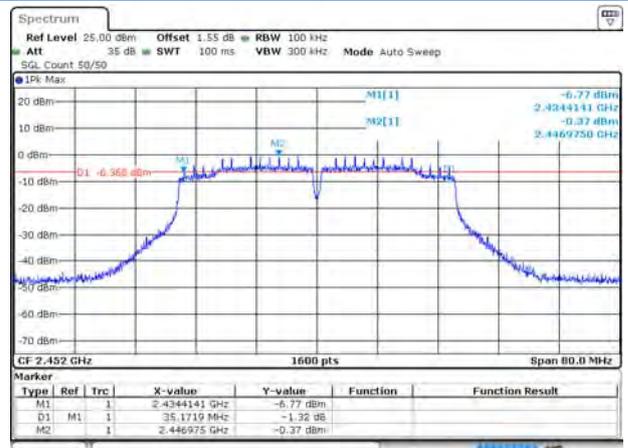
Date: 15 OCT 2020 10:03:53

802.11n-40 MHz MIDDLE CHANNEL



Date: 15 OCT 2020 10:06:42

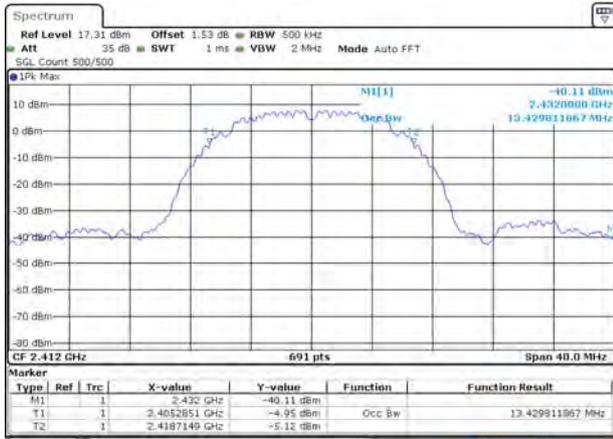
802.11n-40 MHz HIGH CHANNEL



Date: 15 OCT 2020 10:09:06

99% Bandwidth

802.11b LOW CHANNEL



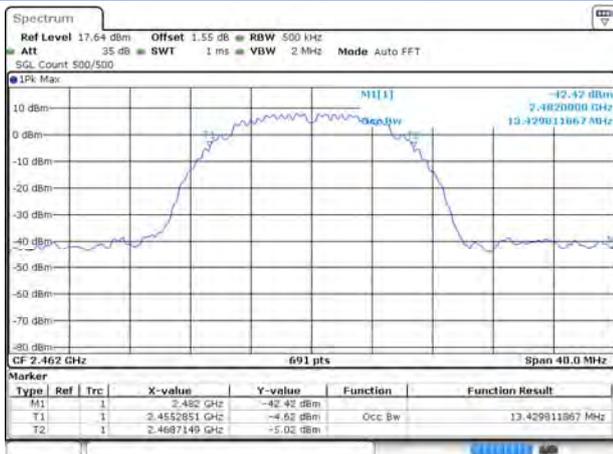
Date: 15 OCT 2020 09:38:37

802.11b MIDDLE CHANNEL



Date: 15 OCT 2020 09:43:04

802.11b HIGH CHANNEL



Date: 15 OCT 2020 09:45:11

802.11g LOW CHANNEL



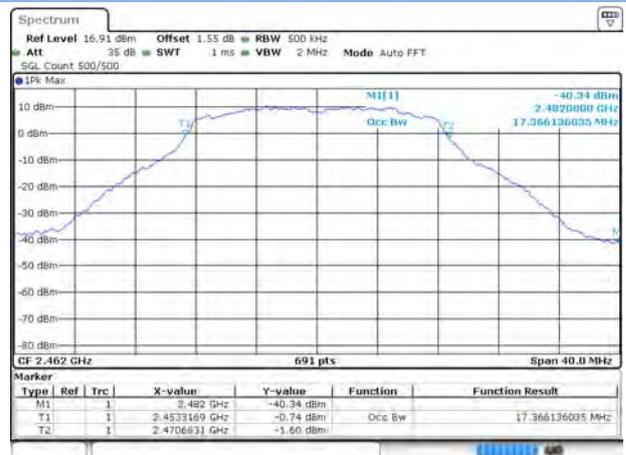
Date: 15 OCT 2020 09:47:58

802.11g MIDDLE CHANNEL



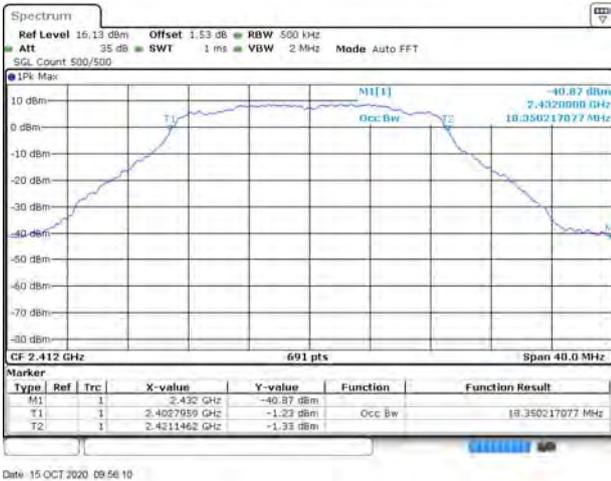
Date: 15 OCT 2020 09:50:42

802.11g HIGH CHANNEL

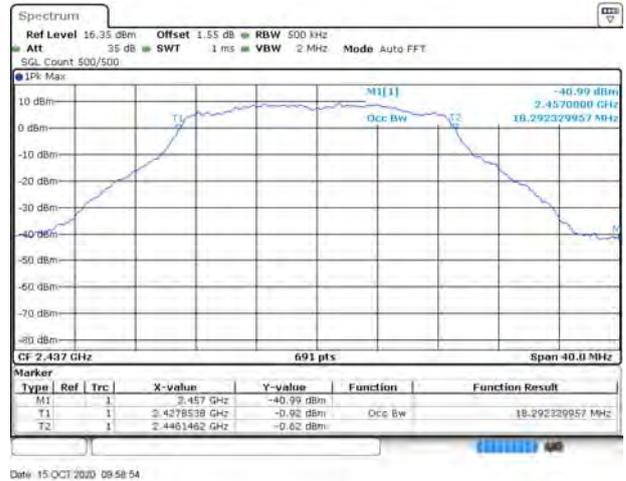


Date: 15 OCT 2020 09:52:48

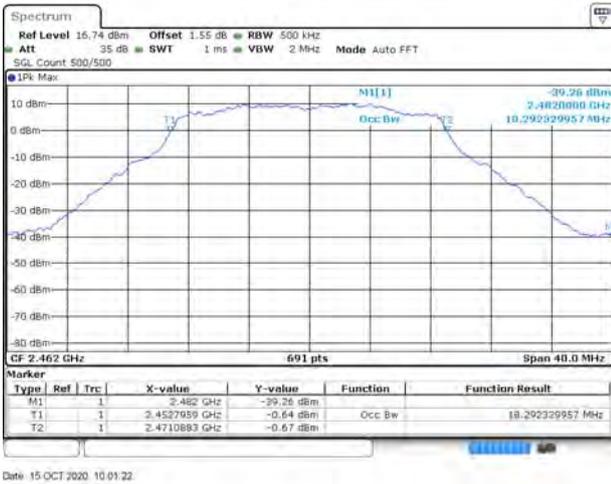
802.11n-20 MHz LOW CHANNEL



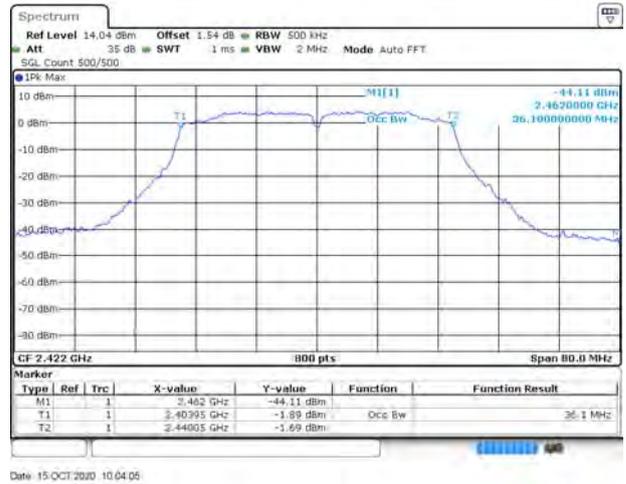
802.11 n-20 MHz MIDDLE CHANNEL



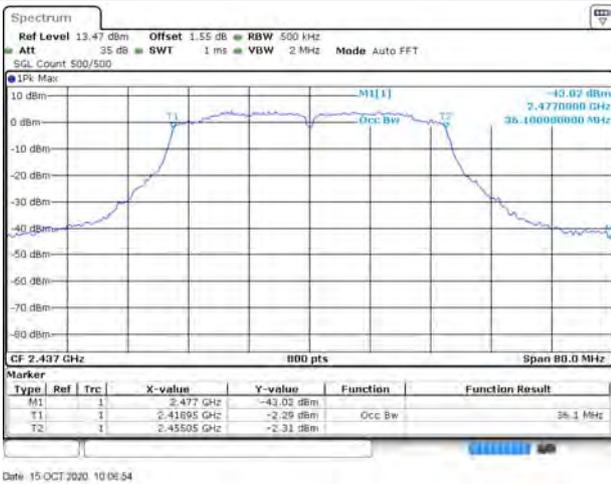
802.11n-20 MHz HIGH CHANNEL



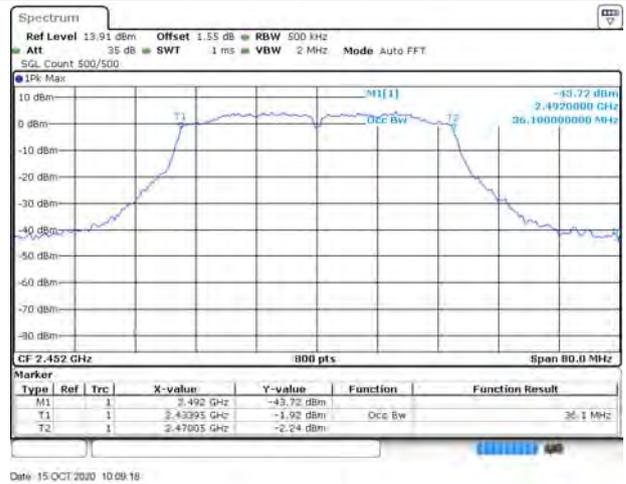
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL

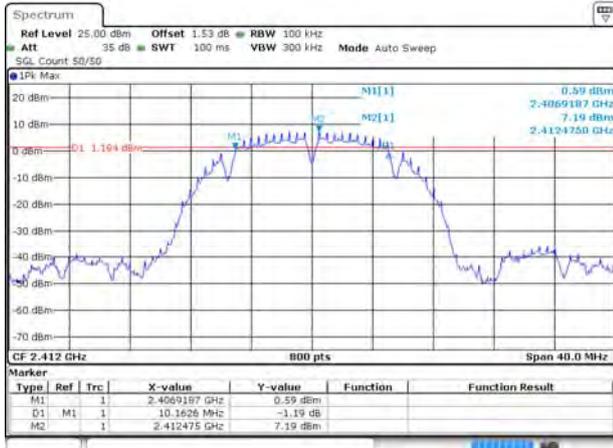


802.11n-40 MHz HIGH CHANNEL



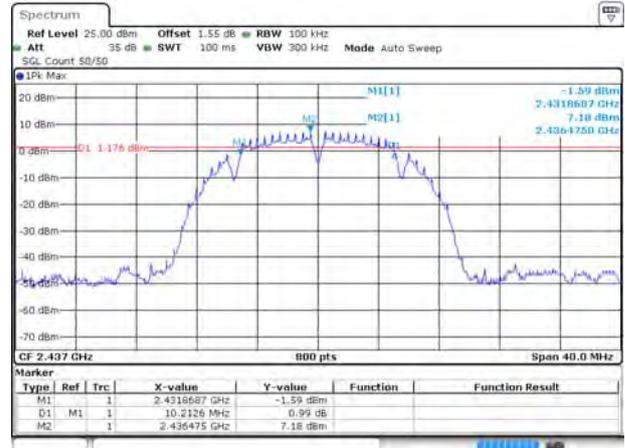
Aux. Antenna
6 dB Bandwidth

802.11b LOW CHANNEL



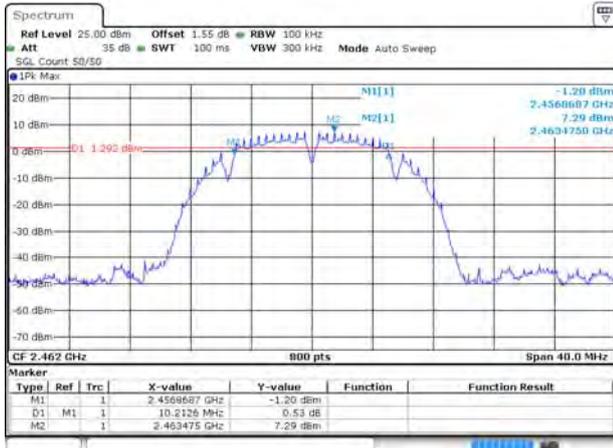
Date: 15 OCT 2020 08:59:40

802.11b MIDDLE CHANNEL



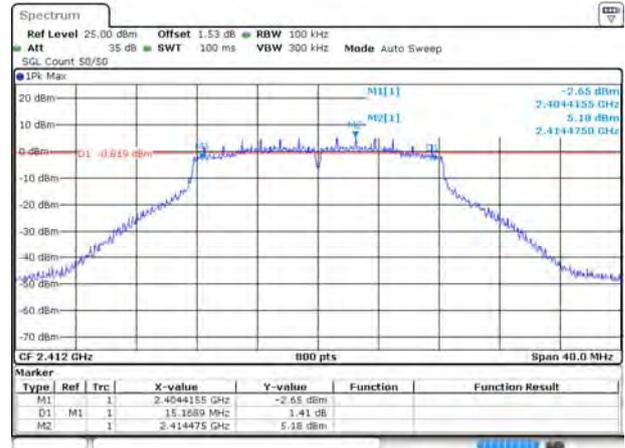
Date: 15 OCT 2020 09:02:23

802.11b HIGH CHANNEL



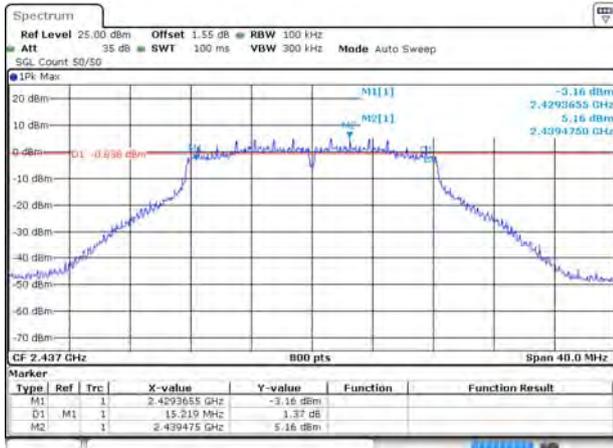
Date: 15 OCT 2020 09:04:18

802.11g LOW CHANNEL



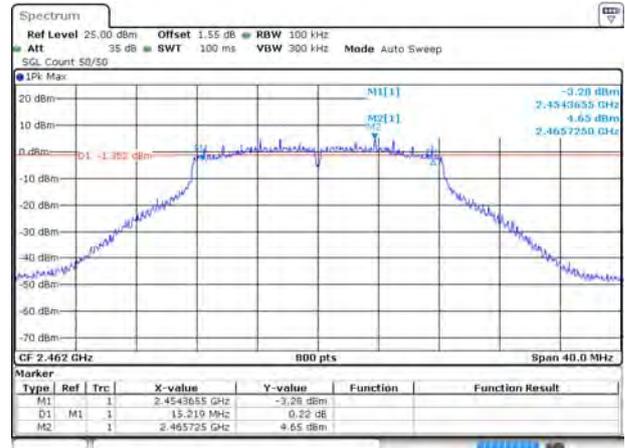
Date: 15 OCT 2020 09:07:02

802.11g MIDDLE CHANNEL



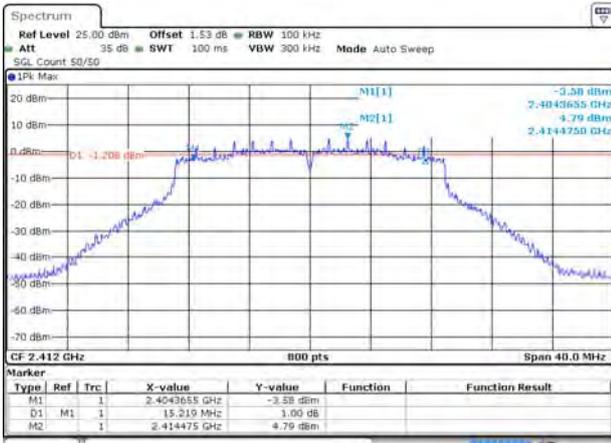
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802.11g HIGH CHANNEL



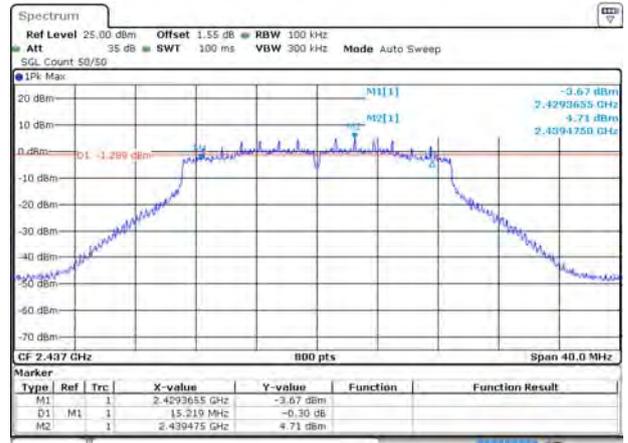
Date: 15 OCT 2020 09:11:53

802.11n-20 MHz LOW CHANNEL



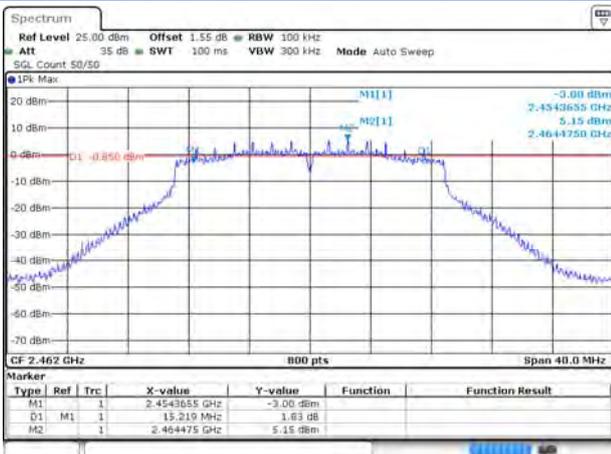
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802.11 n-20 MHz MIDDLE CHANNEL



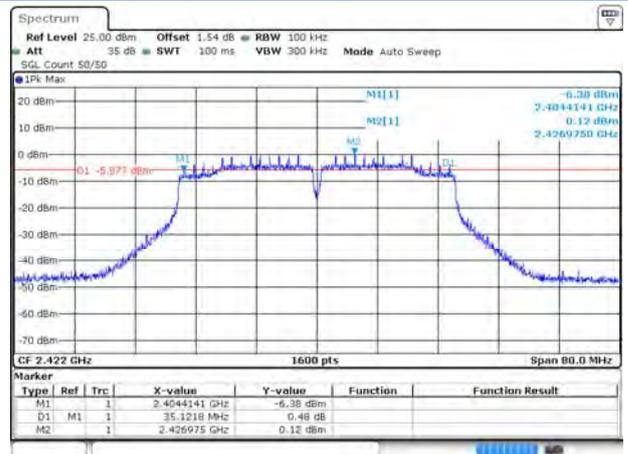
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802.11n-20 MHz HIGH CHANNEL



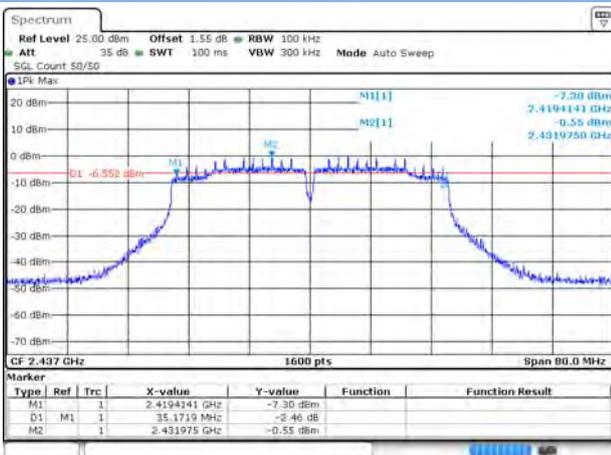
Date: 15.OCT.2020 09:22:52

802.11n-40 MHz LOW CHANNEL



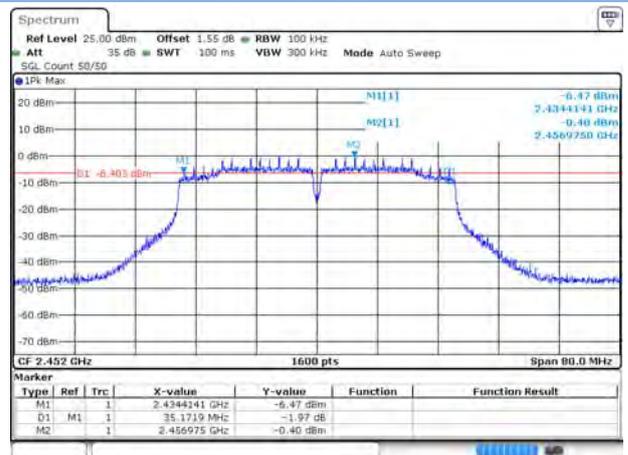
Date: 15.OCT.2020 09:25:55

802.11n-40 MHz MIDDLE CHANNEL



Date: 15.OCT.2020 09:29:16

802.11n-40 MHz HIGH CHANNEL



Date: 15.OCT.2020 09:31:32

99% Bandwidth

802.11b LOW CHANNEL



Date: 15 OCT 2020 08:59:50

802.11b MIDDLE CHANNEL



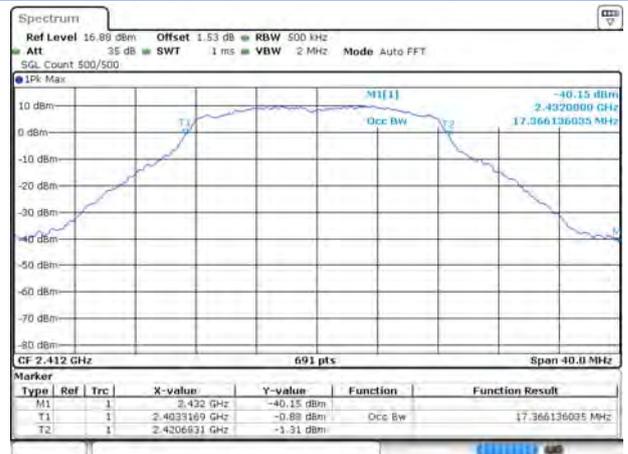
Date: 15 OCT 2020 09:02:33

802.11b HIGH CHANNEL



Date: 15 OCT 2020 09:04:28

802.11g LOW CHANNEL



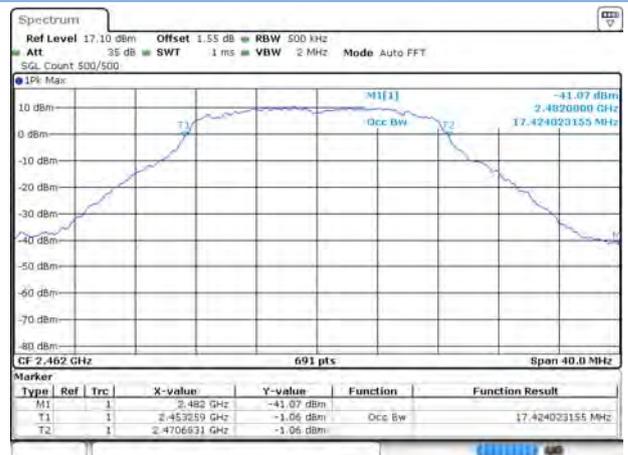
Date: 15 OCT 2020 09:07:12

802.11g MIDDLE CHANNEL



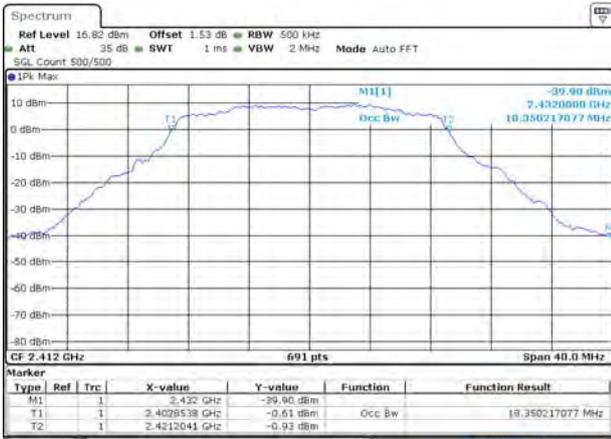
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802.11g HIGH CHANNEL



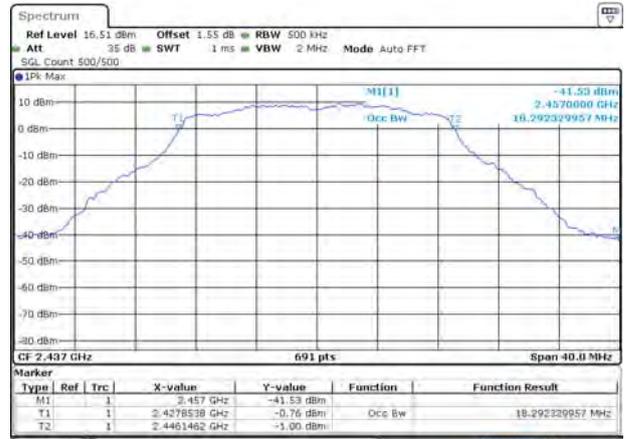
Date: 15 OCT 2020 09:12:03

802.11n-20 MHz LOW CHANNEL



Date: 15 OCT 2020 09:15:09

802.11 n-20 MHz MIDDLE CHANNEL



Date: 15 OCT 2020 09:18:45

802.11n-20 MHz HIGH CHANNEL



Date: 15 OCT 2020 09:23:02

802.11n-40 MHz LOW CHANNEL



Date: 15 OCT 2020 09:26:07

802.11n-40 MHz MIDDLE CHANNEL



Date: 15 OCT 2020 09:29:28

802.11n-40 MHz HIGH CHANNEL



Date: 15 OCT 2020 09:31:44

A.3 Conducted Spurious Emissions

Test Data

Main Antenna

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-43.84	6.72	-13.28	Pass
Middle	-43.95	6.82	-13.18	Pass
High	-43.76	6.91	-13.09	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-50.27	5.12	-14.88	Pass
Middle	-50.01	5.05	-14.95	Pass
High	-50.44	5.28	-14.72	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-50.53	4.22	-15.78	Pass
Middle	-51.42	4.59	-15.41	Pass
High	-51.48	5.26	-14.74	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-50.44	-0.05	-20.05	Pass
Middle	-51.14	-0.40	-20.40	Pass
High	-50.24	-0.24	-20.24	Pass

Aux. Antenna

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.77	7.24	-12.76	Pass
Middle	-42.97	7.23	-12.77	Pass
High	-42.45	7.07	-12.93	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-51.14	5.02	-14.98	Pass
Middle	-51.54	5.06	-14.94	Pass
High	-51.40	5.32	-14.68	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-50.88	4.87	-15.13	Pass
Middle	-51.42	4.56	-15.44	Pass
High	-50.99	5.07	-14.93	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-49.71	0.18	-19.82	Pass
Middle	-49.98	-0.33	-20.33	Pass
High	-51.38	-0.60	-20.60	Pass

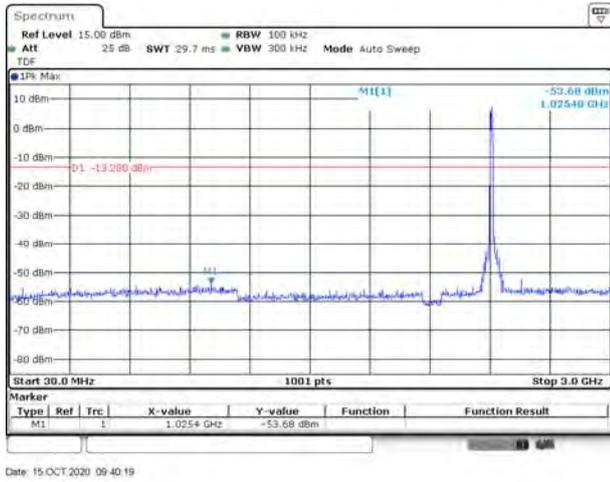
Main Antenna

Test Plots

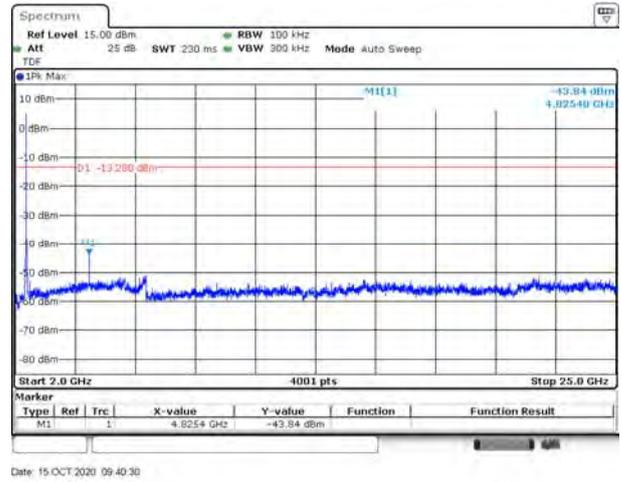
802.11b LOW CHANNEL CARRIER LEVEL



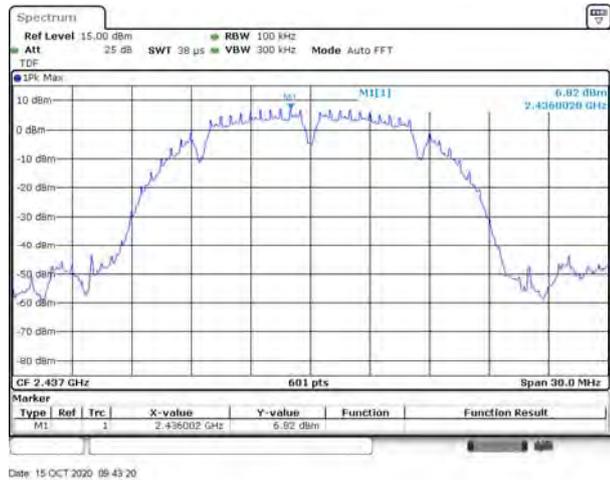
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



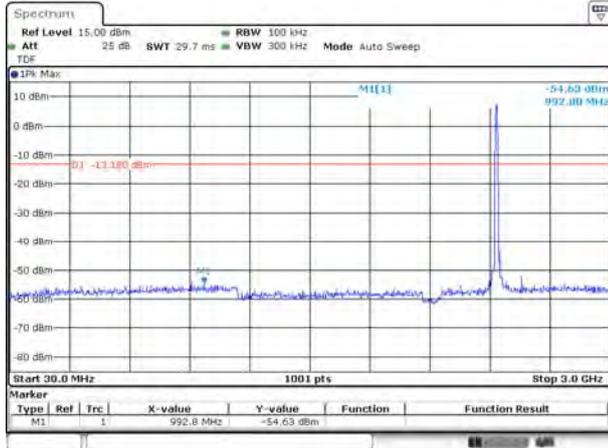
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11b MIDDLE CHANNEL CARRIER LEVEL

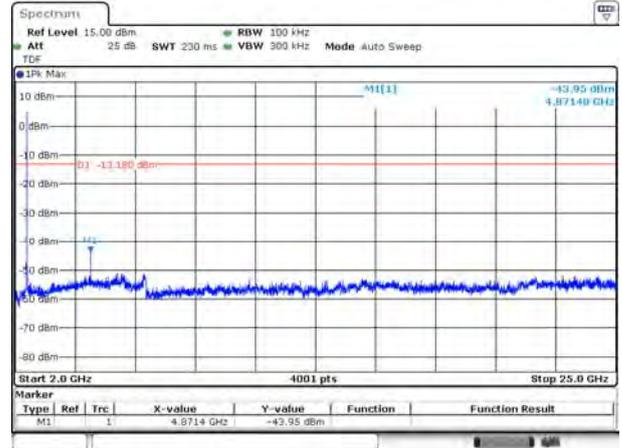


802.11b MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



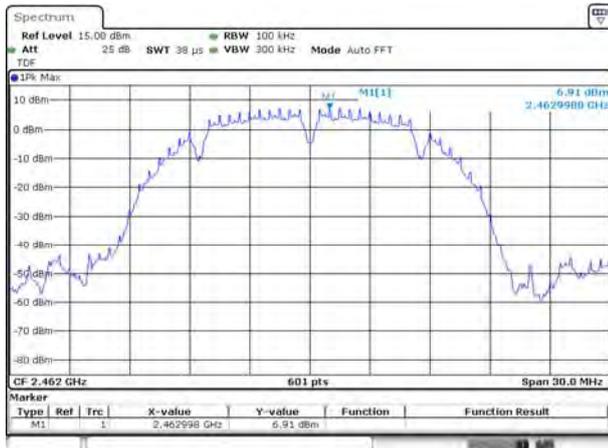
Date: 15.OCT.2020 09:43:35

802.11b MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



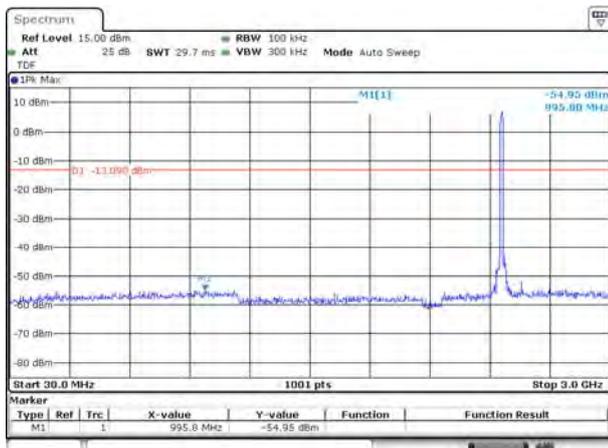
Date: 15.OCT.2020 09:43:44

802.11b HIGH CHANNEL CARRIER LEVEL



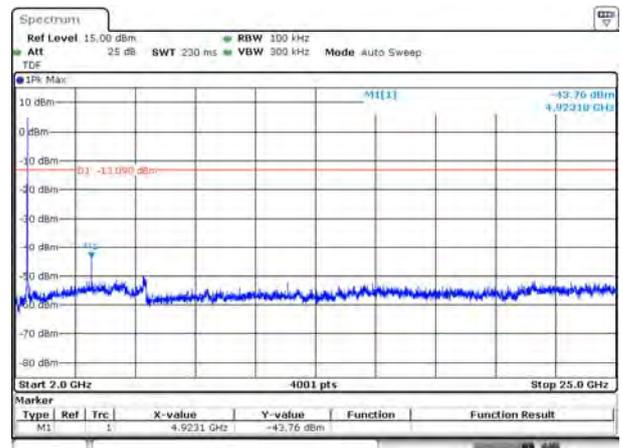
Date: 15.OCT.2020 09:45:23

802.11b HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



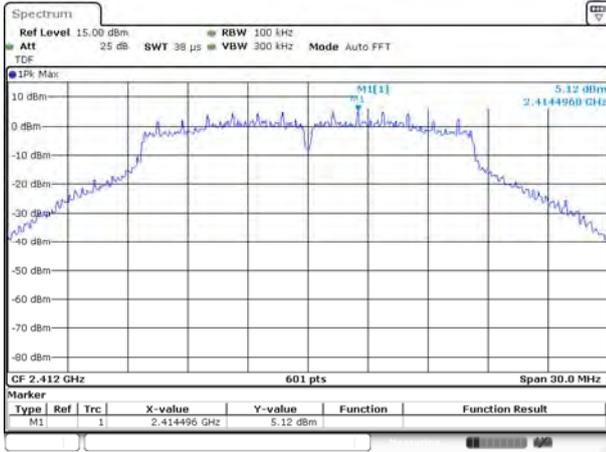
Date: 15.OCT.2020 09:45:42

802.11b HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



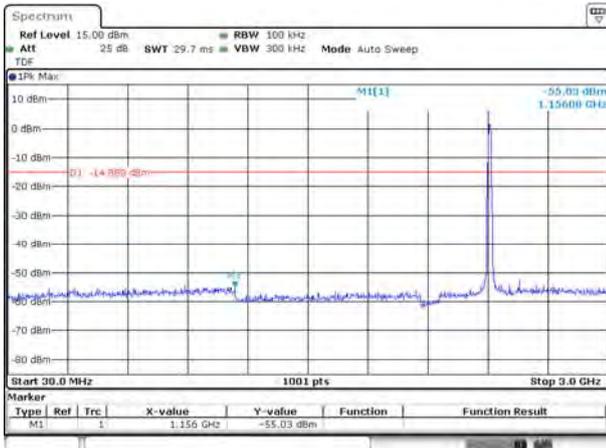
Date: 15.OCT.2020 09:45:49

802.11g LOW CHANNEL CARRIER LEVEL



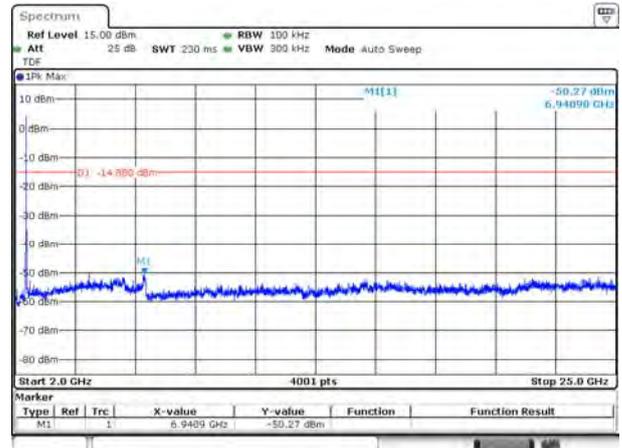
Date: 15.OCT.2020 09:48:23

802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



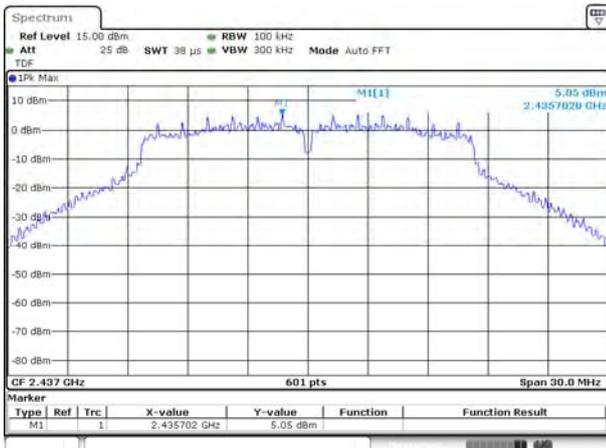
Date: 15.OCT.2020 09:48:50

802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



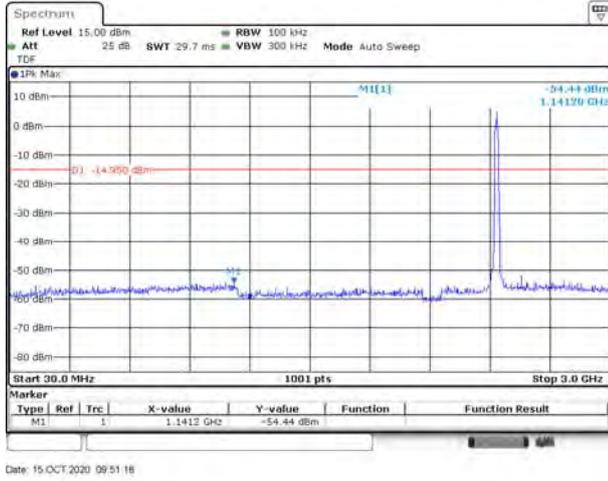
Date: 15.OCT.2020 09:49:00

802.11g MIDDLE CHANNEL CARRIER LEVEL

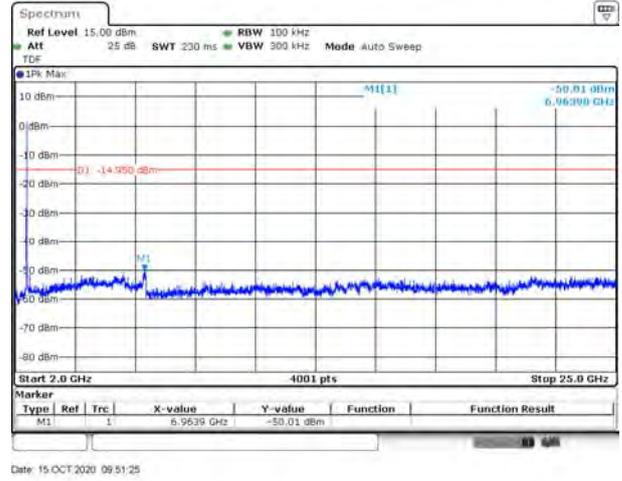


Date: 15.OCT.2020 09:50:55

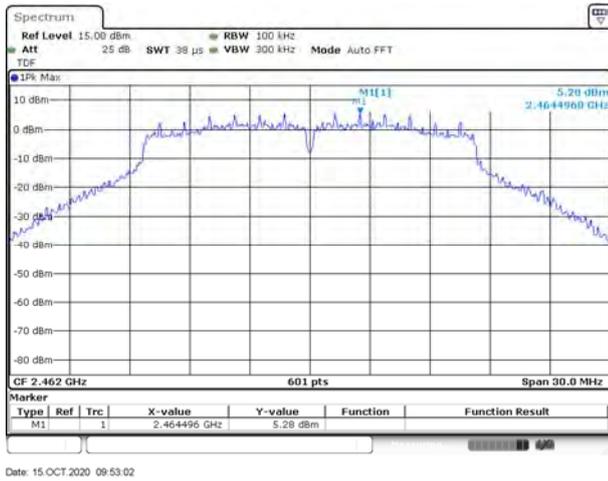
802.11g MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



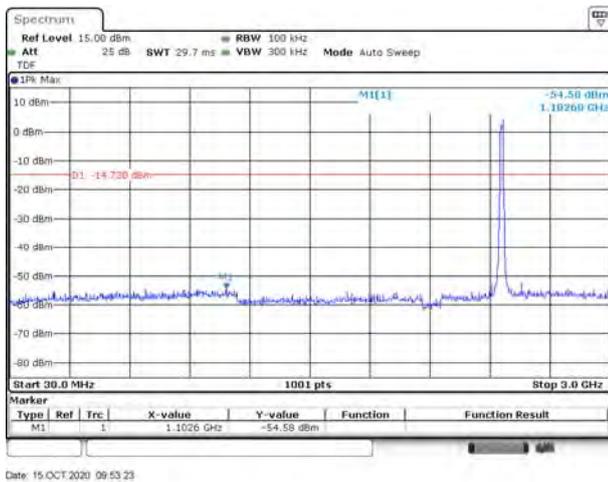
802.11g MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



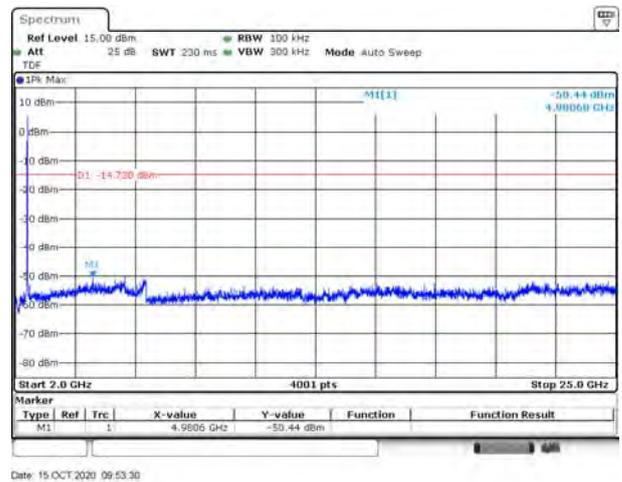
802.11g HIGH CHANNEL CARRIER LEVEL



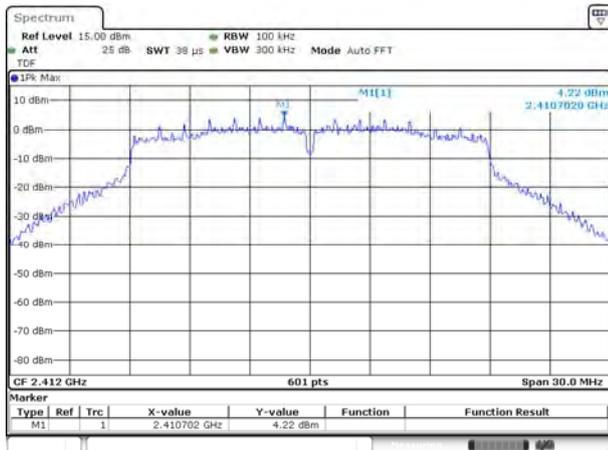
802.11g HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

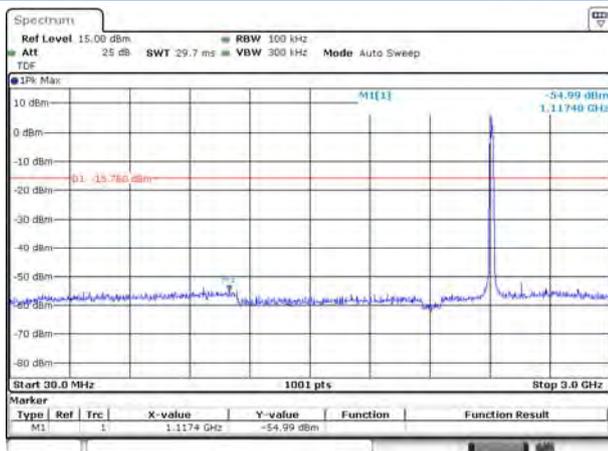


802.11n-20 LOW CHANNEL CARRIER LEVEL



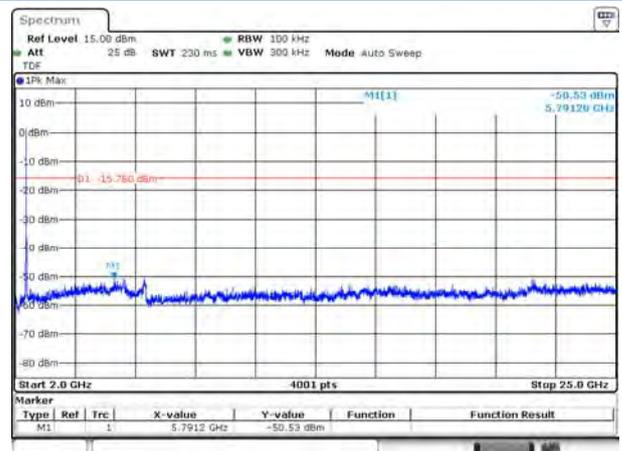
Date: 15.OCT.2020 09:56:24

802.11n-20 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



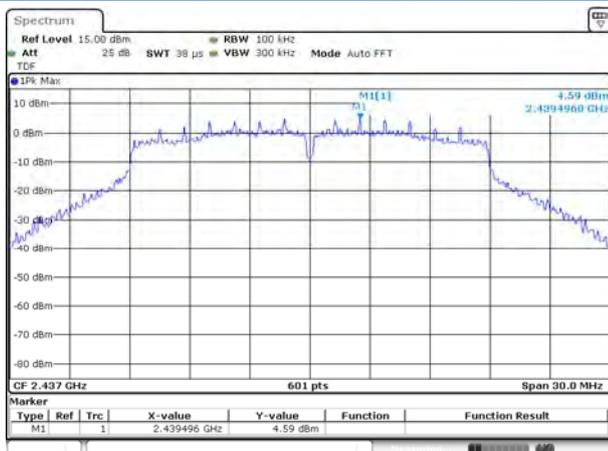
Date: 15.OCT.2020 09:56:41

802.11n-20 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



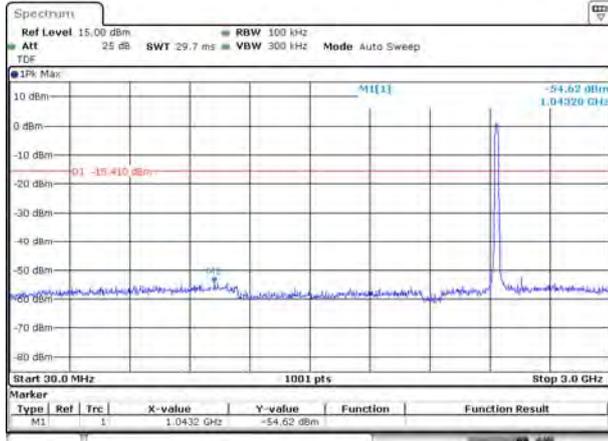
Date: 15.OCT.2020 09:56:48

802.11n-20 MIDDLE CHANNEL CARRIER LEVEL



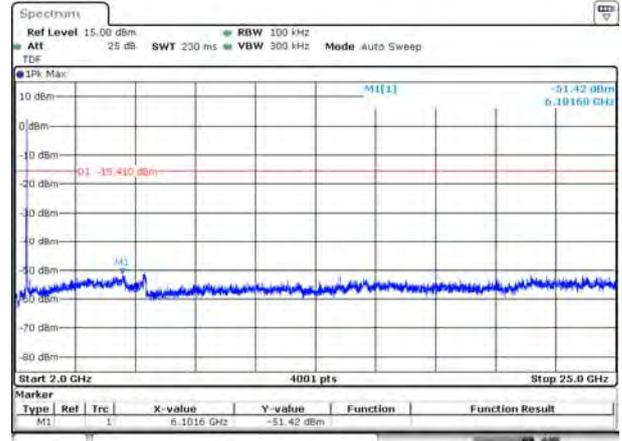
Date: 15.OCT.2020 09:59:07

802.11n-20 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



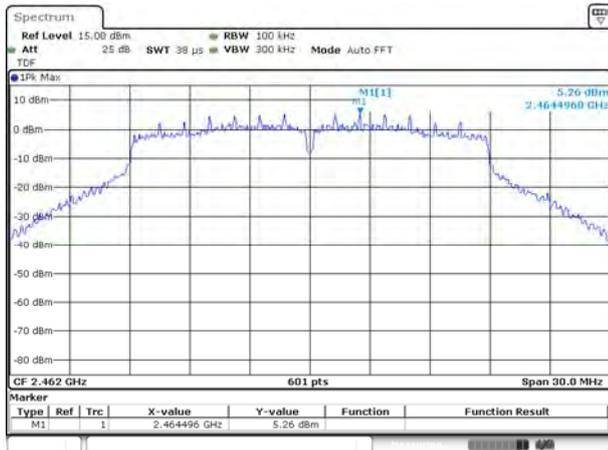
Date: 15.OCT.2020 09:59:35

802.11n-20 MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



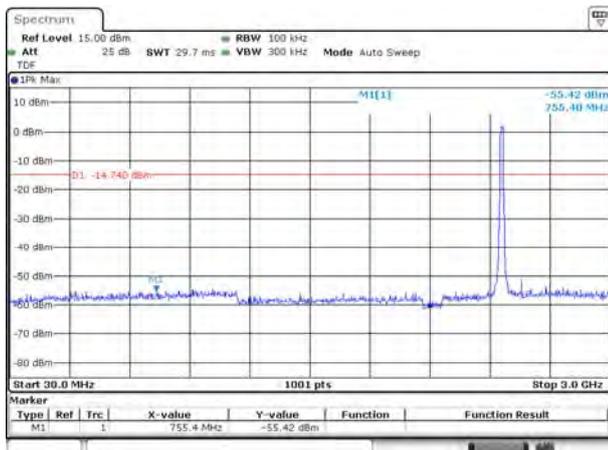
Date: 15.OCT.2020 09:59:42

802.11n-20 HIGH CHANNEL CARRIER LEVEL



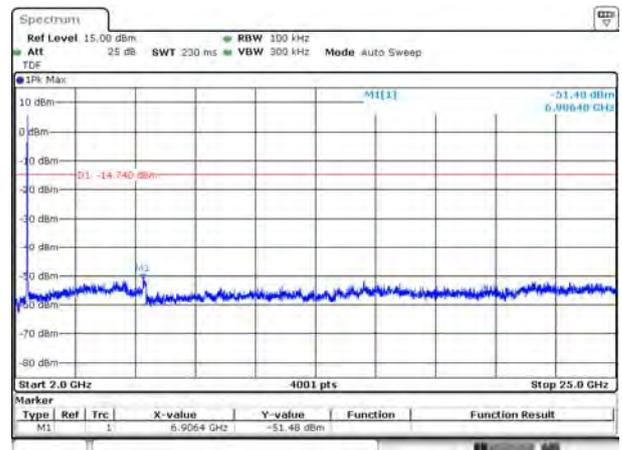
Date: 15.OCT.2020 10:01:38

802.11n-20 HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



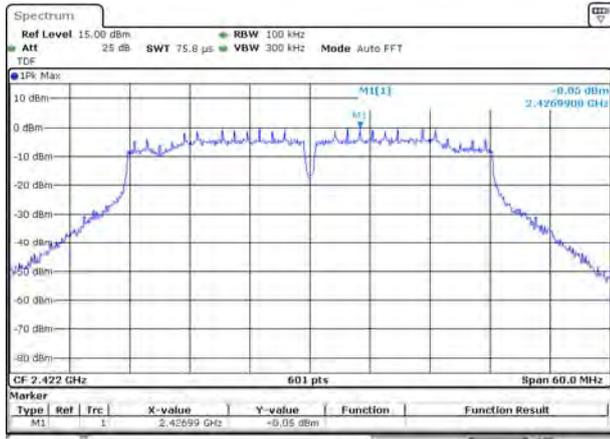
Date: 15.OCT.2020 10:01:59

802.11n-20 HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



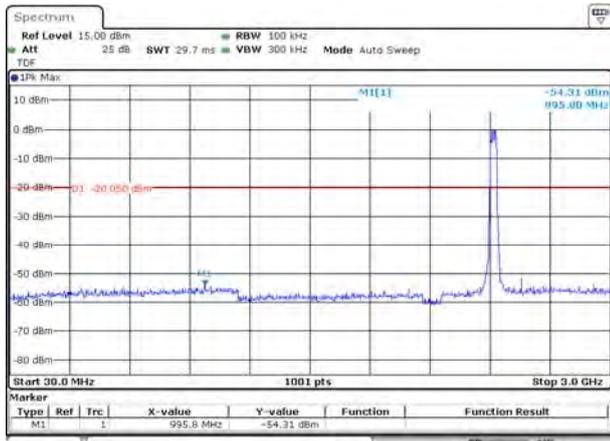
Date: 15.OCT.2020 10:02:09

802.11n-40 LOW CHANNEL CARRIER LEVEL



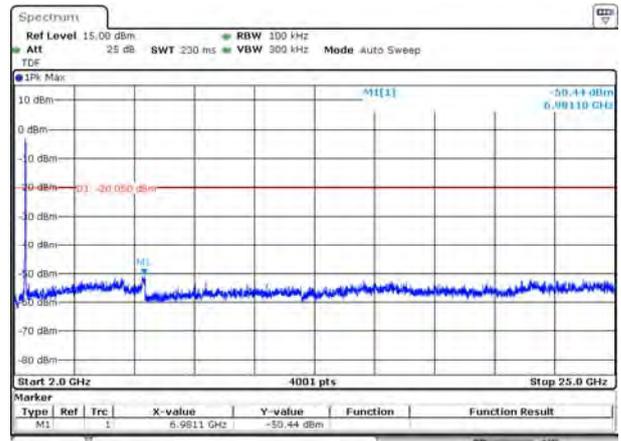
Date: 15/OCT/2020 10:04:28

802.11n-40 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



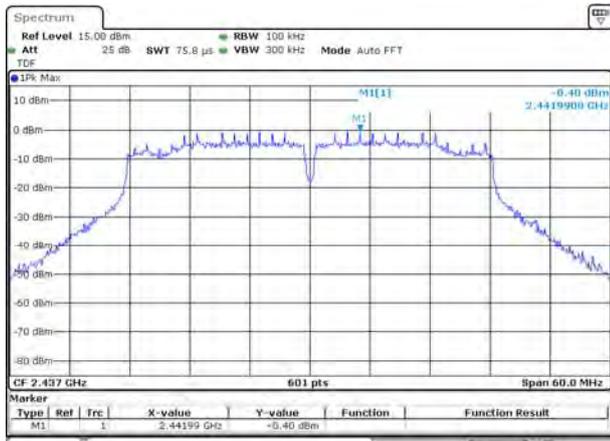
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802.11n-40 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



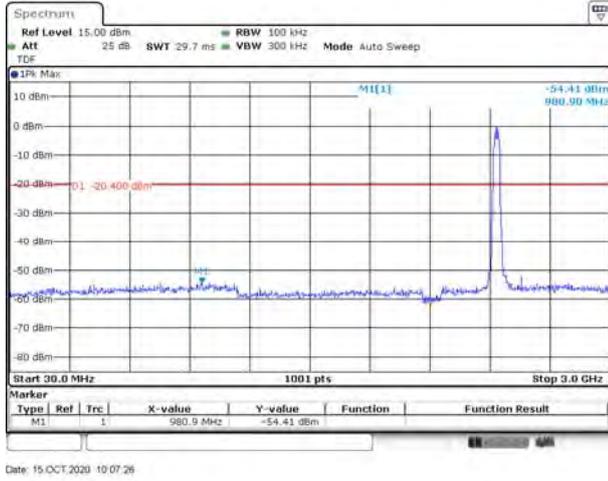
Date: 15/OCT/2020 10:04:55

802.11n-40 MIDDLE CHANNEL CARRIER LEVEL

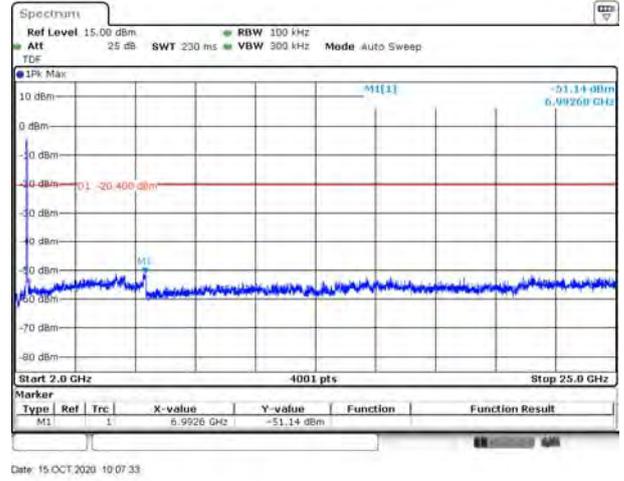


Date: 15/OCT/2020 10:07:11

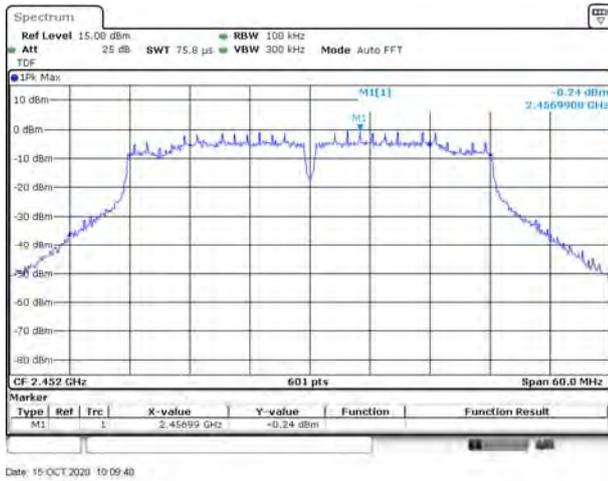
802.11n-40 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



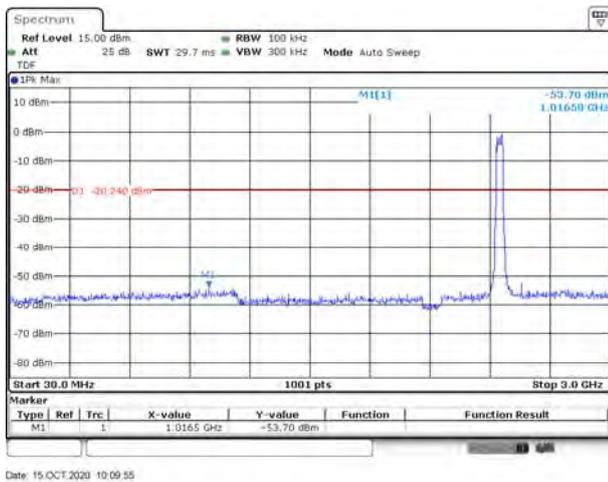
802.11n-40 MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



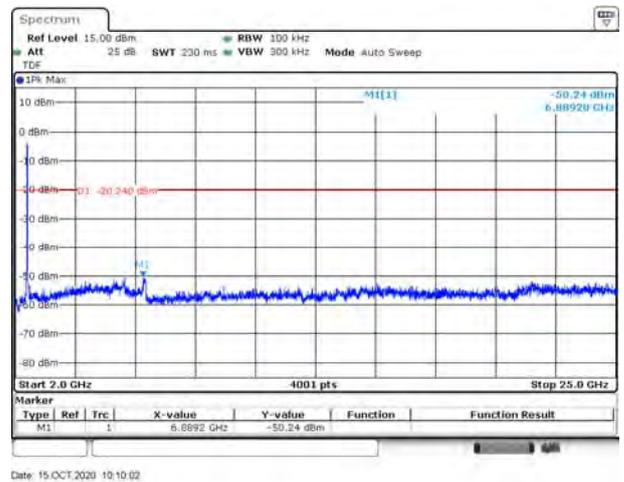
802.11n-40 HIGH CHANNEL CARRIER LEVEL



802.11n-40 HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



802.11n-40 HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



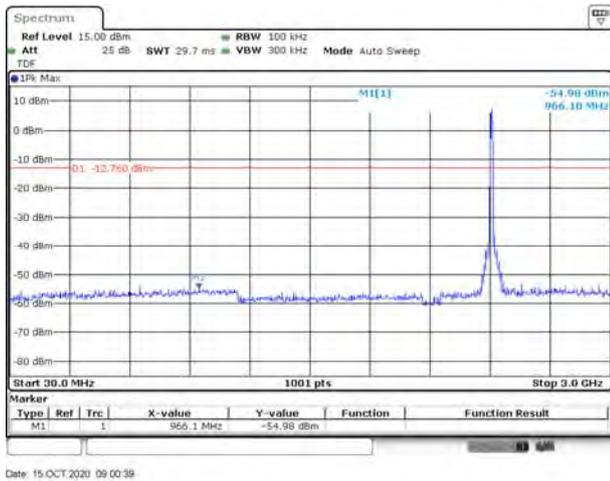
Aux. Antenna

Test Plots

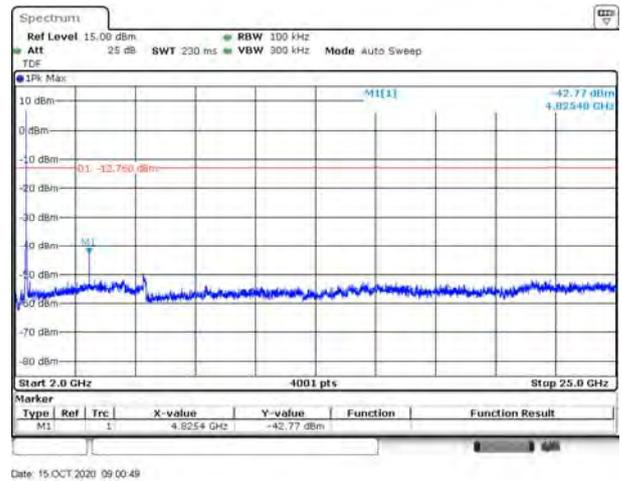
802.11b LOW CHANNEL CARRIER LEVEL



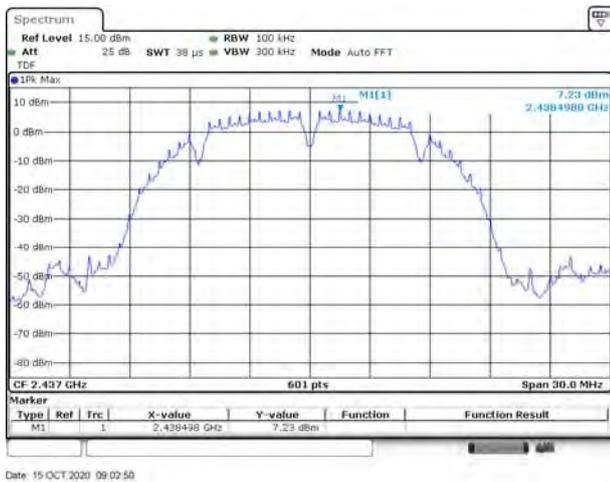
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



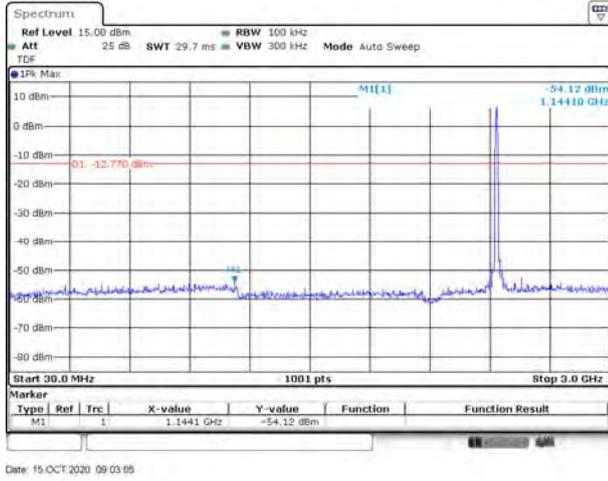
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



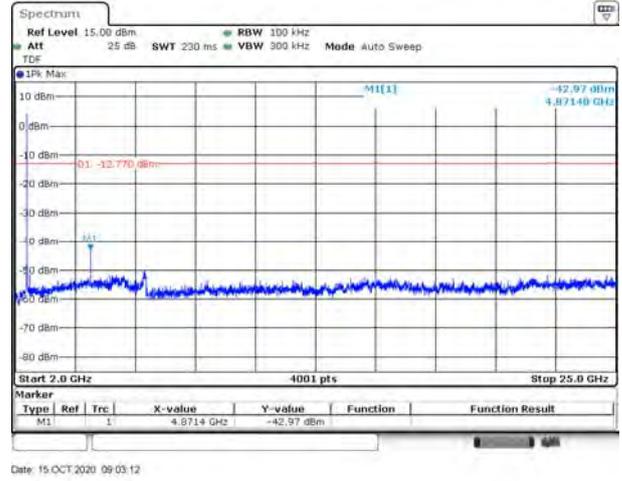
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



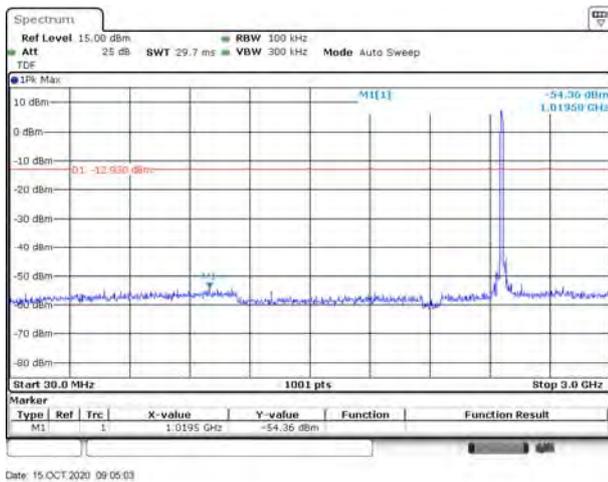
802.11b MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



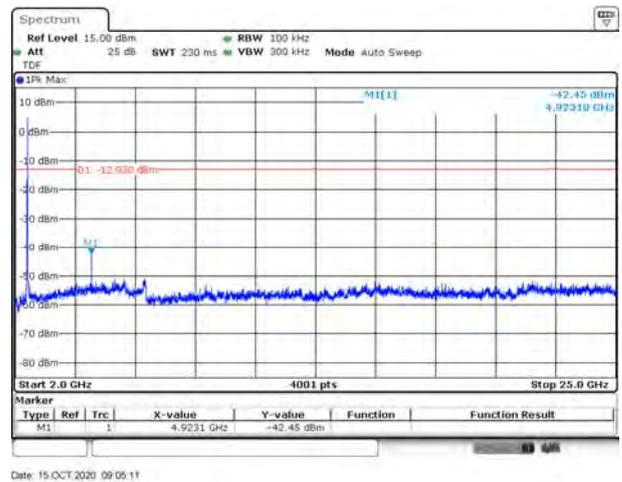
802.11b HIGH CHANNEL CARRIER LEVEL



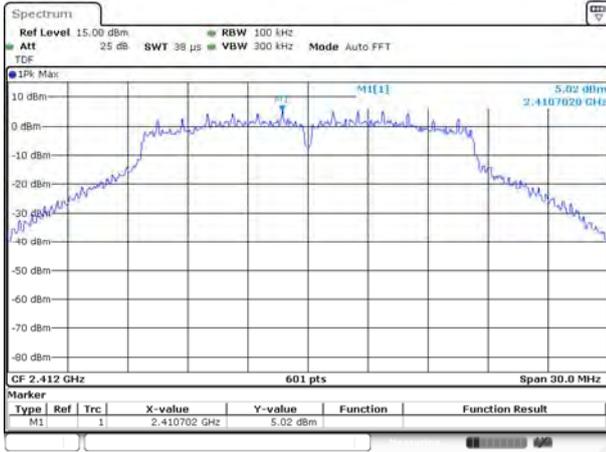
802.11b HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



802.11b HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

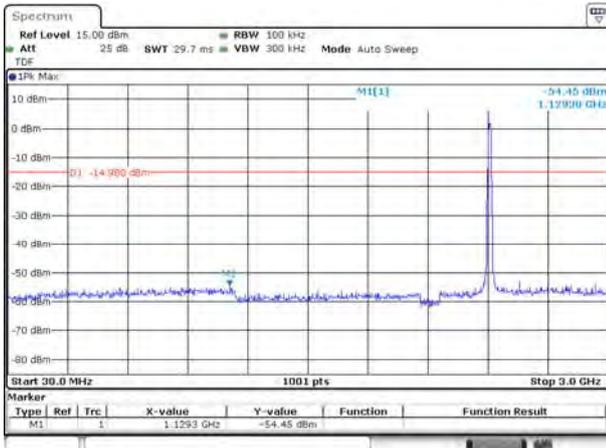


802.11g LOW CHANNEL CARRIER LEVEL



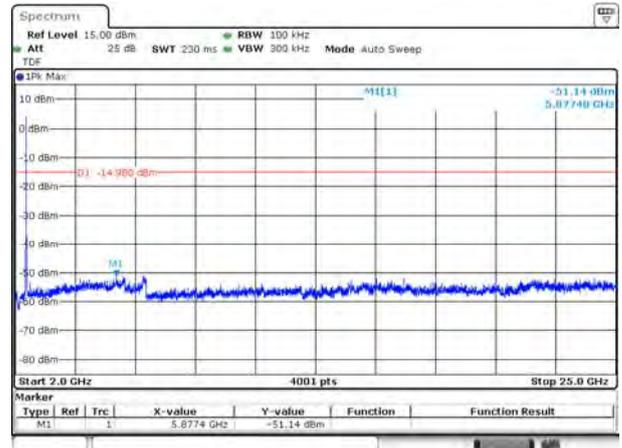
Date: 15.OCT.2020 09:07:28

802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



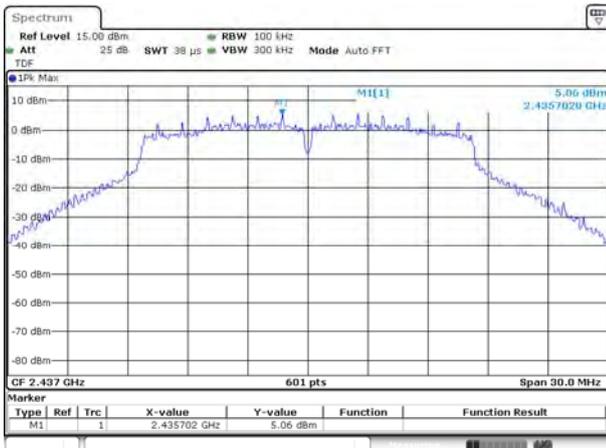
Date: 15.OCT.2020 09:07:43

802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



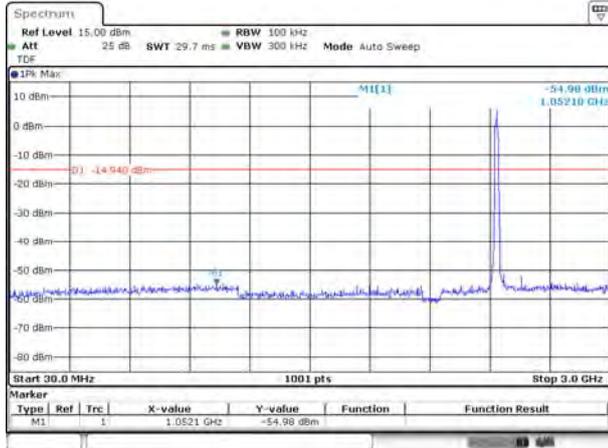
Date: 15.OCT.2020 09:07:51

802.11g MIDDLE CHANNEL CARRIER LEVEL



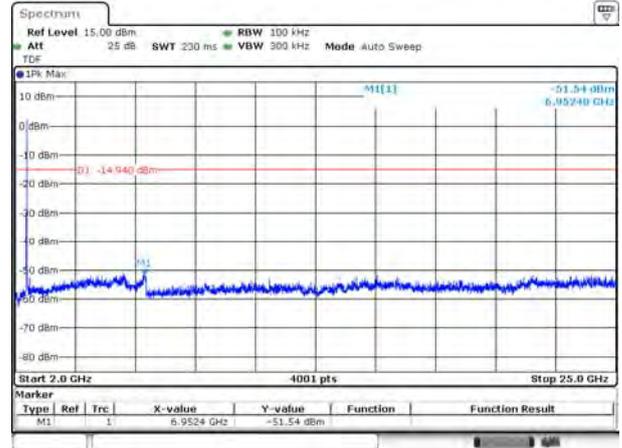
Date: 15.OCT.2020 09:10:09

802.11g MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



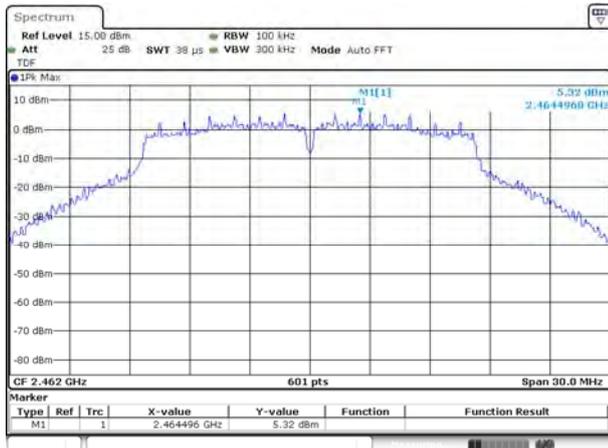
Date: 15.OCT.2020 09:10:34

802.11g MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



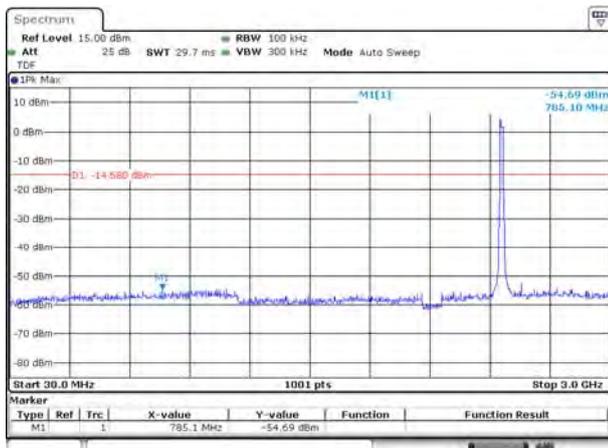
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802.11g HIGH CHANNEL CARRIER LEVEL



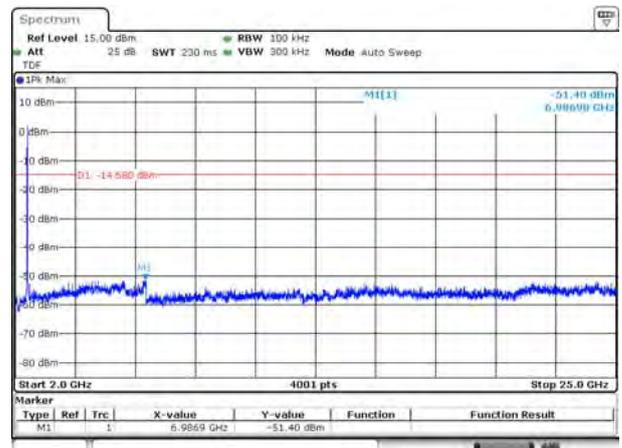
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802.11g HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



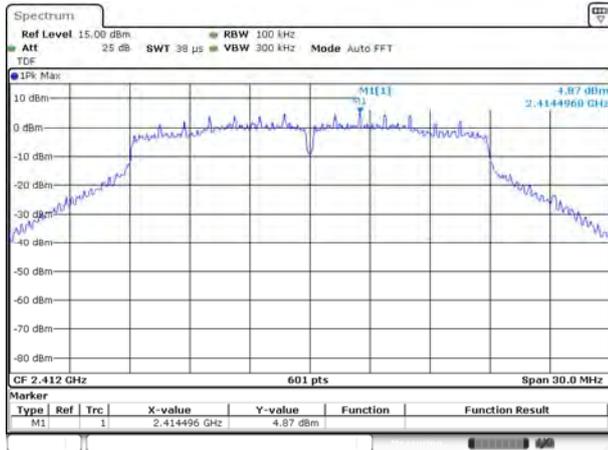
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802.11g HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



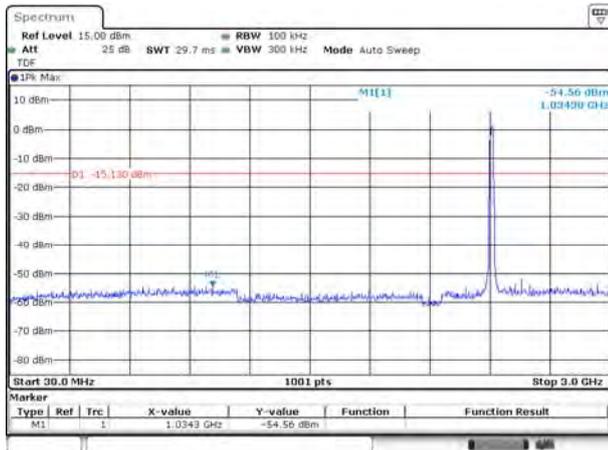
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802.11n-20 LOW CHANNEL CARRIER LEVEL



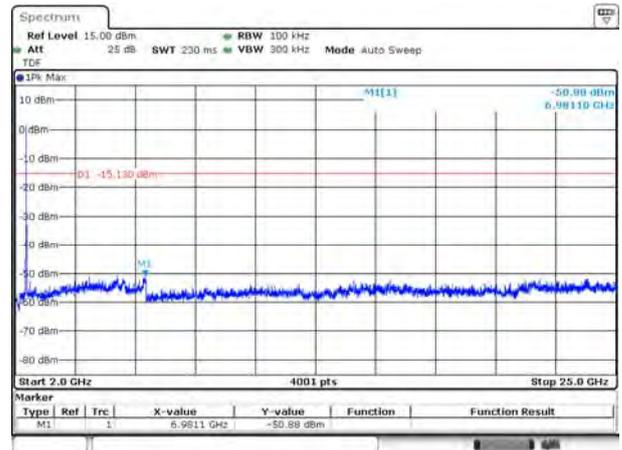
Date: 15.OCT.2020 09:15:23

802.11n-20 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



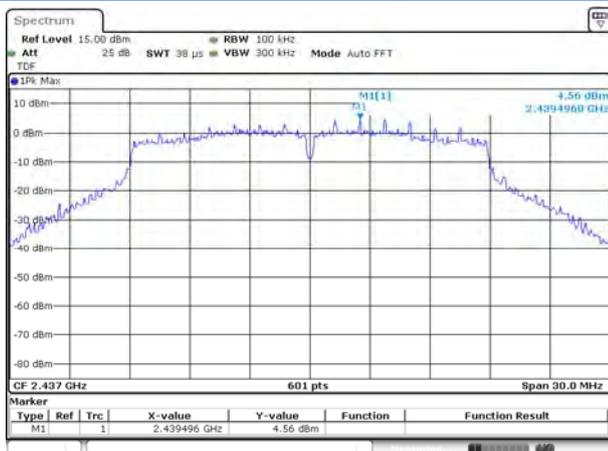
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802.11n-20 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



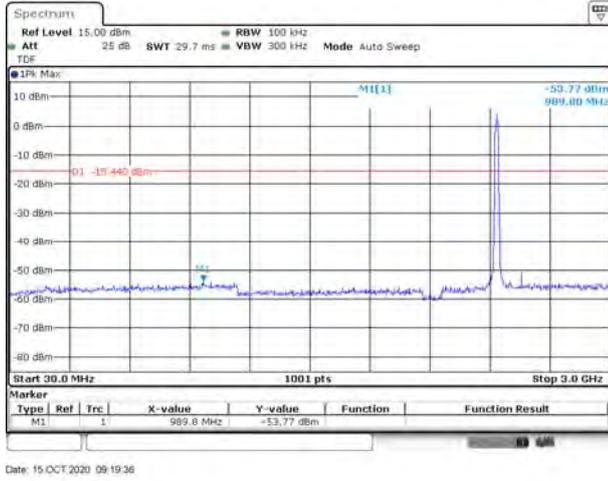
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802.11n-20 MIDDLE CHANNEL CARRIER LEVEL

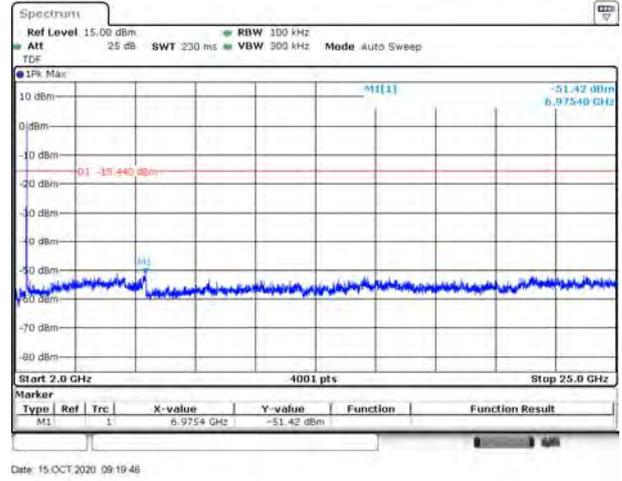


Date: 15.OCT.2020 09:16:57

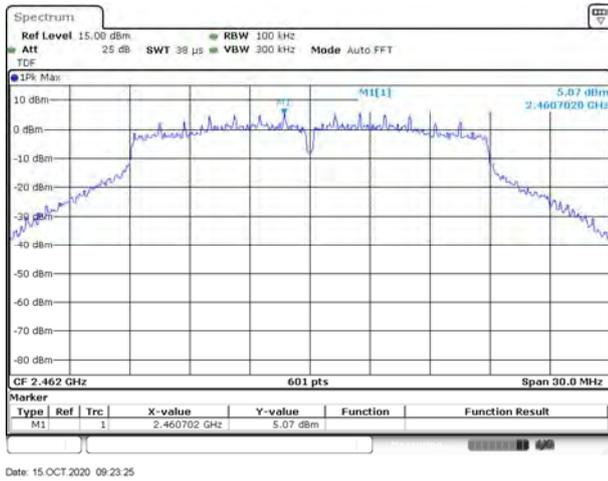
802.11n-20 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



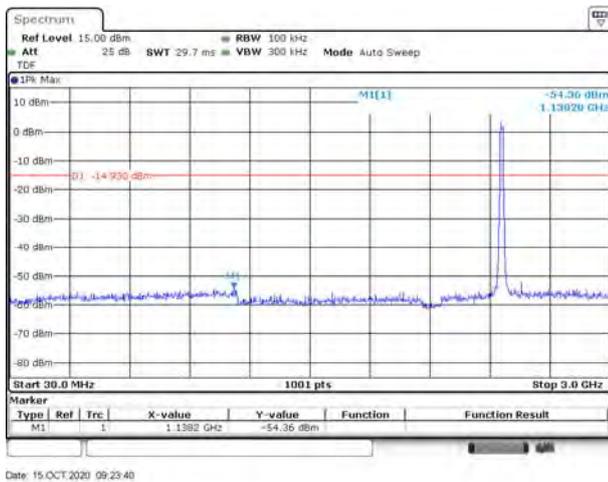
802.11n-20 MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



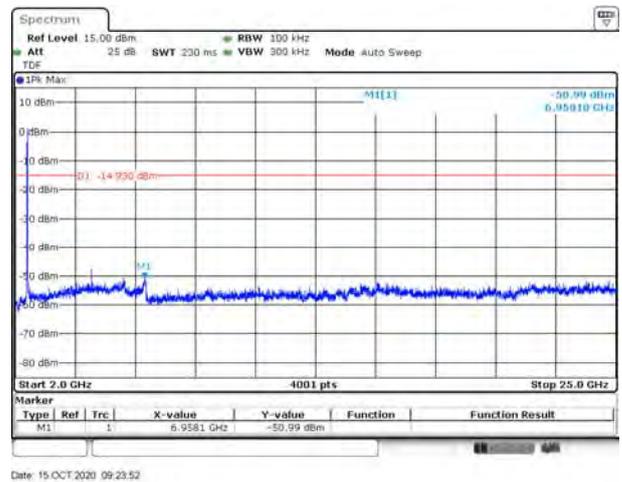
802.11n-20 HIGH CHANNEL CARRIER LEVEL



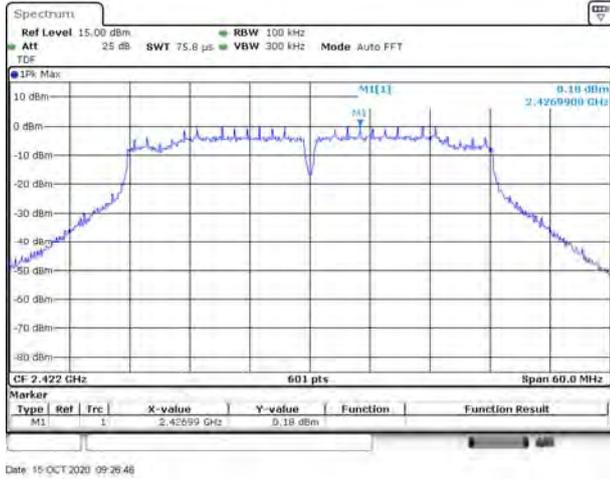
802.11n-20 HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



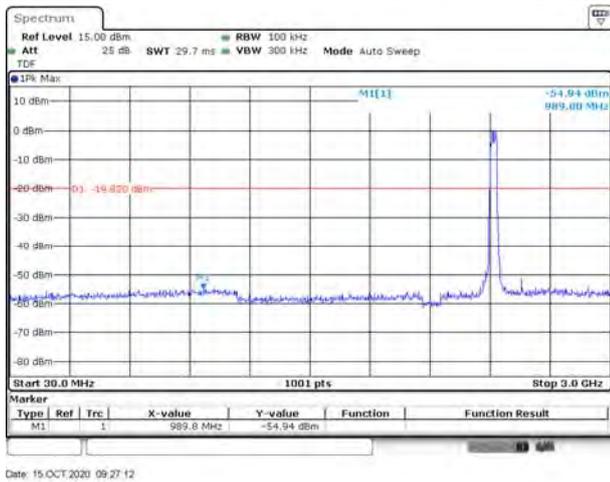
802.11n-20 HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



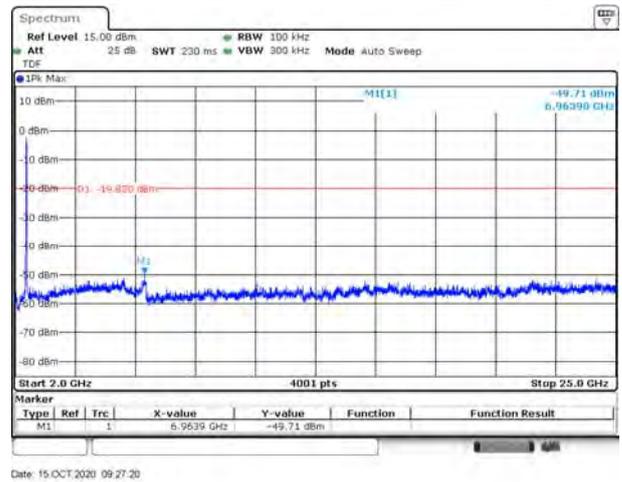
802.11n-40 LOW CHANNEL CARRIER LEVEL



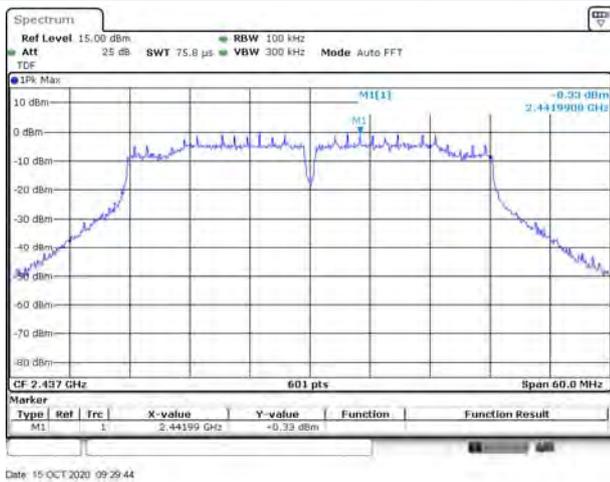
802.11n-40 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



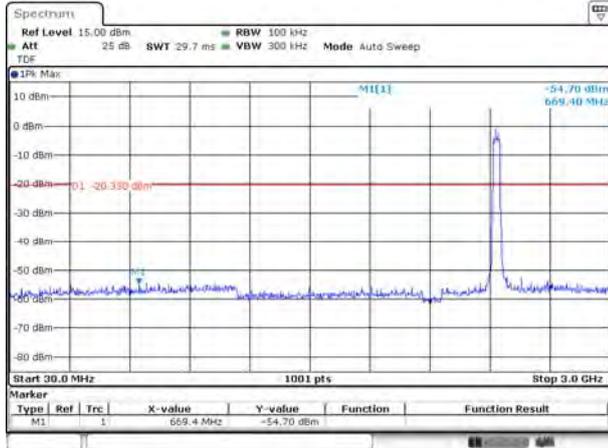
802.11n-40 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-40 MIDDLE CHANNEL CARRIER LEVEL

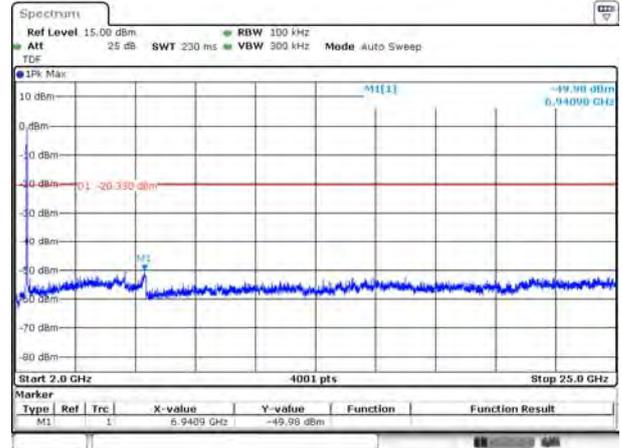


802.11n-40 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



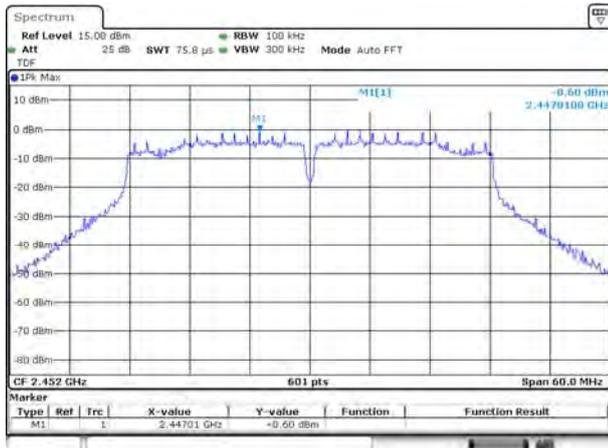
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802.11n-40 MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



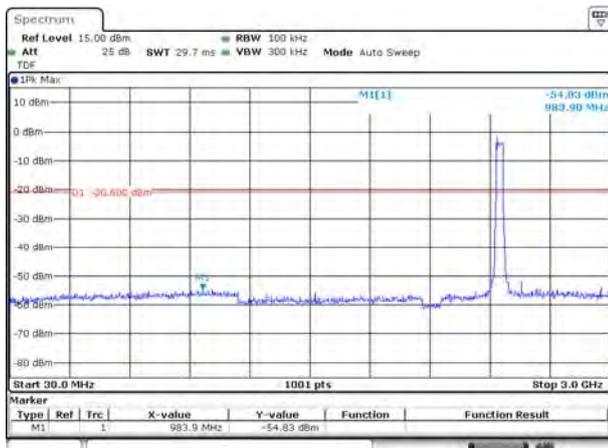
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802.11n-40 HIGH CHANNEL CARRIER LEVEL



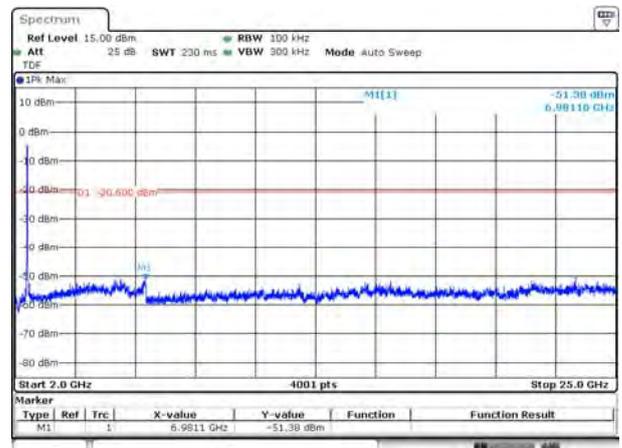
Date: 15.OCT.2020 09:31:58

802.11n-40 HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



Date: 15.OCT.2020 09:32:17

802.11n-40 HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



Date: 15.OCT.2020 09:32:44

A.4 Band Edge (Authorized-band band-edge)

Test Data

Note: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Main Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-39.03	6.72	-13.28	Pass
High Channel	-47.56	6.91	-13.09	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-25.19	5.12	-14.88	Pass
High Channel	-47.84	5.28	-14.72	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.51	4.22	-15.78	Pass
High Channel	-46.28	5.26	-14.74	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.83	-0.05	-20.05	Pass
High Channel	-43.19	-0.24	-20.24	Pass

Aux. Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.78	7.24	-12.76	Pass
High Channel	-46.61	7.07	-12.93	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.18	5.02	-14.98	Pass
High Channel	-47.35	5.32	-14.68	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.62	4.87	-15.13	Pass
High Channel	-45.71	5.07	-14.93	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.17	0.18	-19.82	Pass
High Channel	-43.73	-0.60	-20.60	Pass

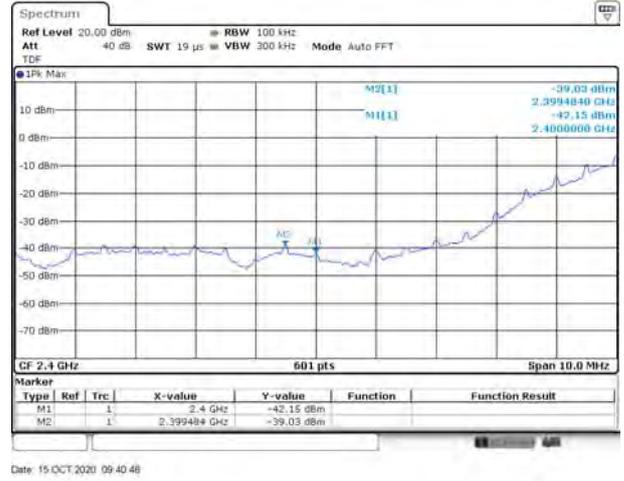
Main Antenna

Test Plots

802.11b LOW CHANNEL, Carrier level



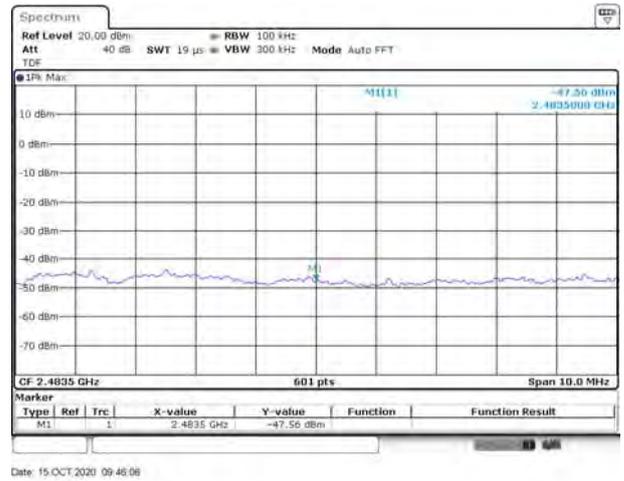
802.11b LOW CHANNEL, Reference level



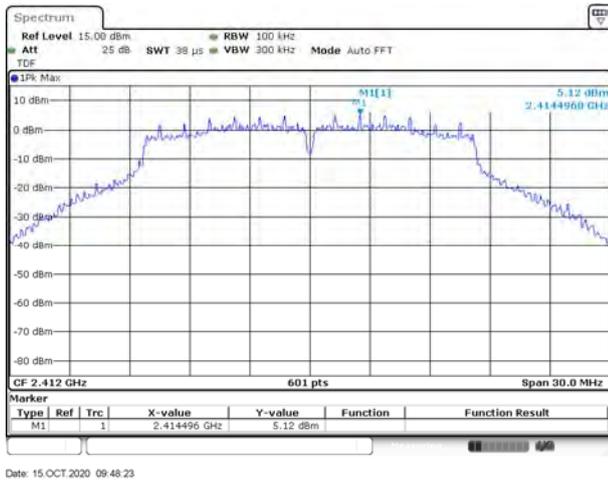
802.11b HIGH CHANNEL, Carrier level



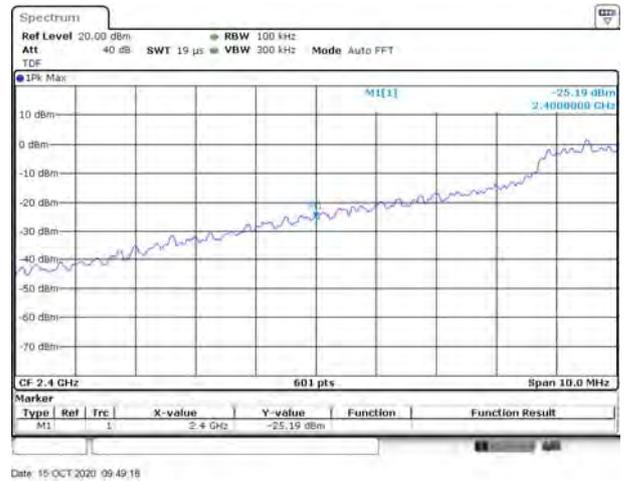
802.11b HIGH CHANNEL, Reference level



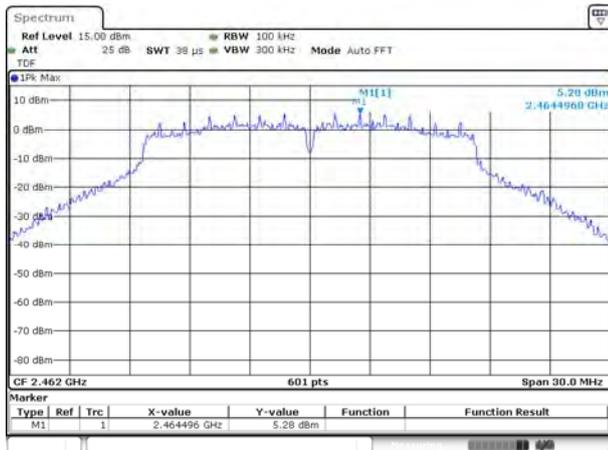
802.11g LOW CHANNEL, Carrier level



802.11g LOW CHANNEL, Reference level

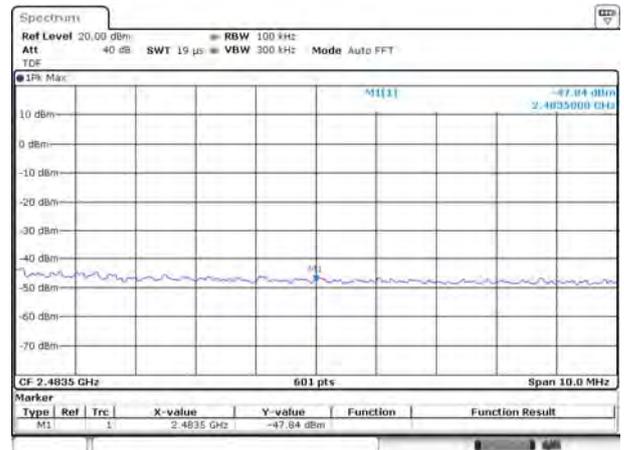


802.11g HIGH CHANNEL, Carrier level



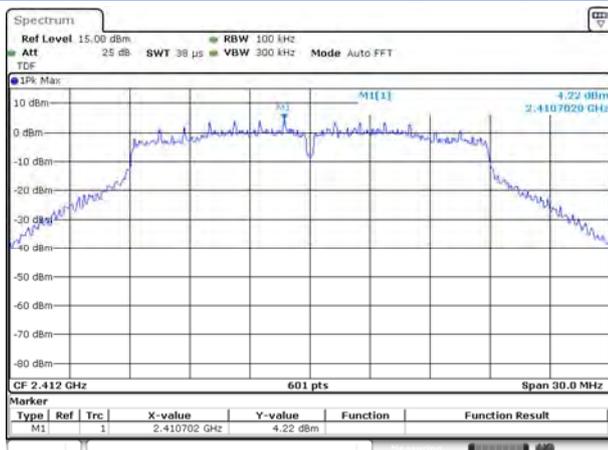
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802.11g HIGH CHANNEL, Reference level



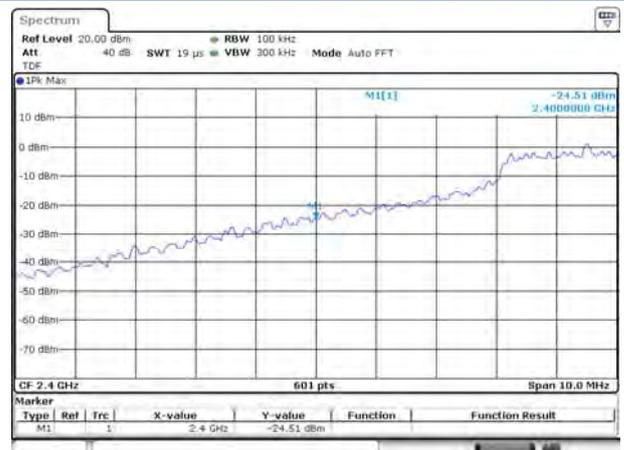
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802.11n-20 MHz LOW CHANNEL, Carrier level



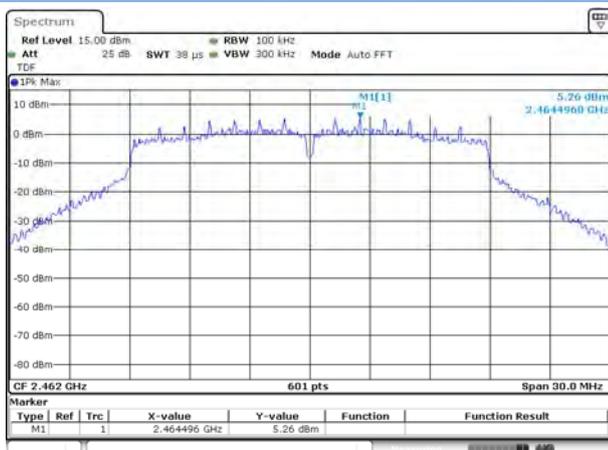
Date: 15.OCT.2020 09:56:24

802.11n-20 MHz LOW CHANNEL, Reference level



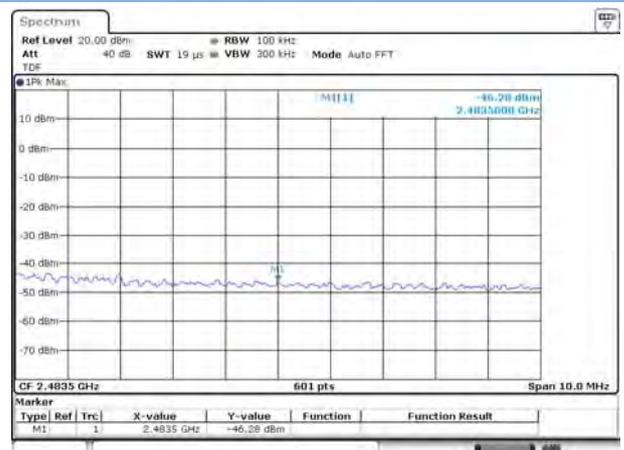
Date: 15.OCT.2020 09:57:35

802.11n-20 MHz HIGH CHANNEL, Carrier level



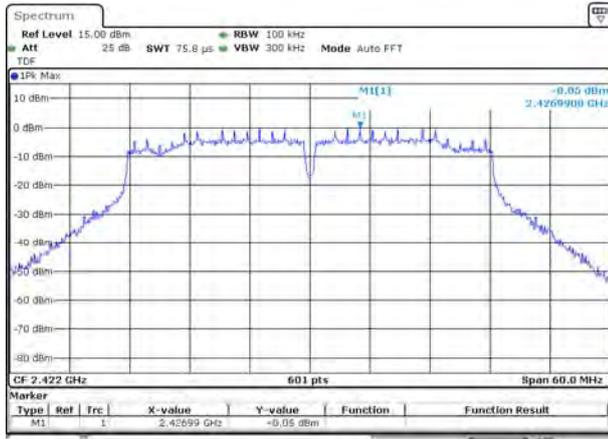
Date: 15.OCT.2020 10:01:38

802.11n-20 MHz HIGH CHANNEL, Reference level



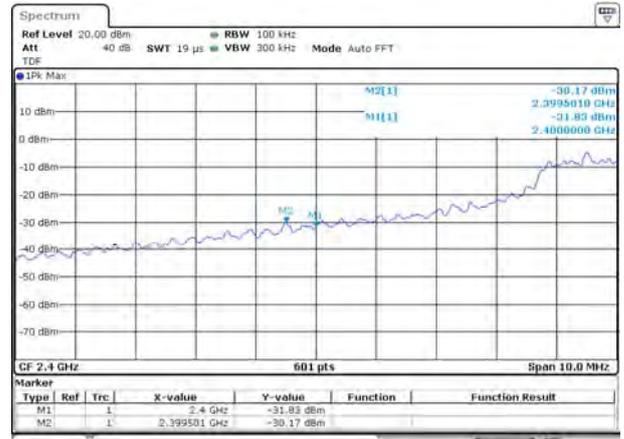
Date: 15.OCT.2020 10:02:18

802.11n-40 MHz LOW CHANNEL, Carrier level



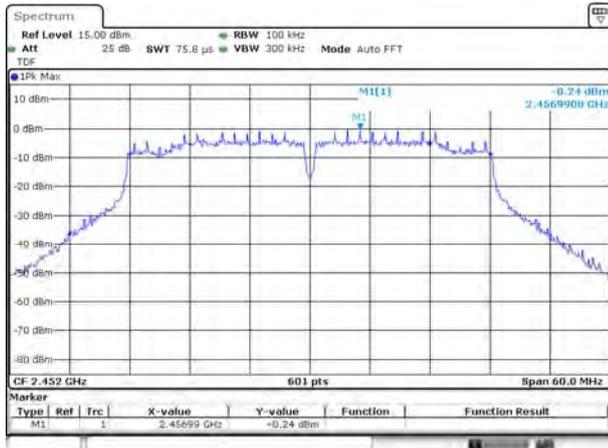
Date: 15/OCT/2020 10:04:28

802.11n-40 MHz LOW CHANNEL, Reference level



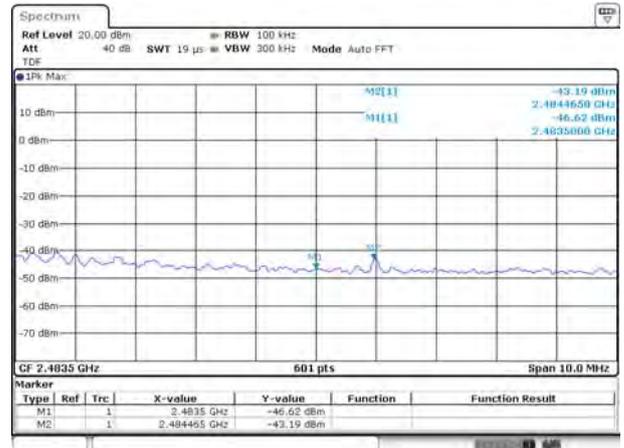
Date: 15/OCT/2020 10:05:13

802.11n-40 MHz HIGH CHANNEL, Carrier level



Date: 15/OCT/2020 10:09:40

802.11n-40 MHz HIGH CHANNEL, Reference level

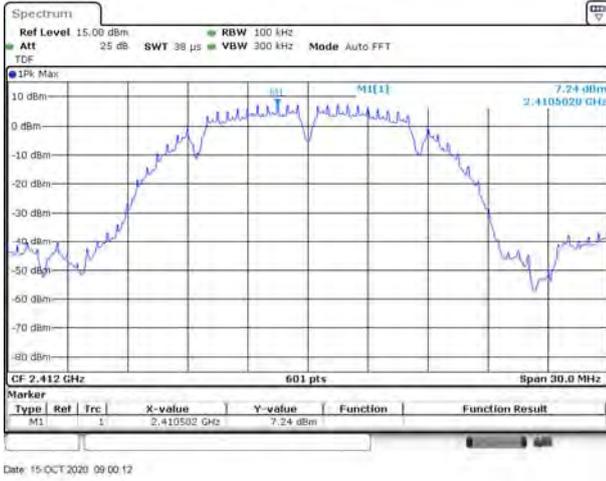


Date: 15/OCT/2020 10:10:36

Aux. Antenna

Test Plots

802.11b LOW CHANNEL, Carrier level



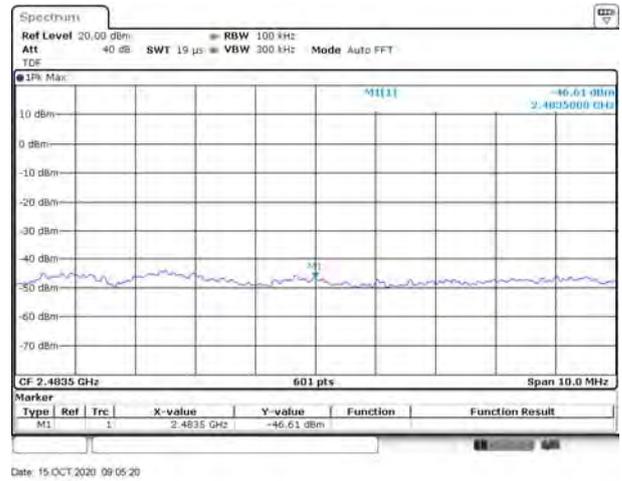
802.11b LOW CHANNEL, Reference level



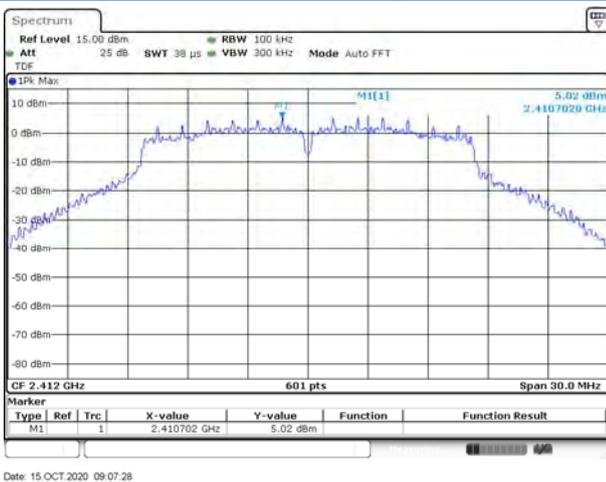
802.11b HIGH CHANNEL, Carrier level



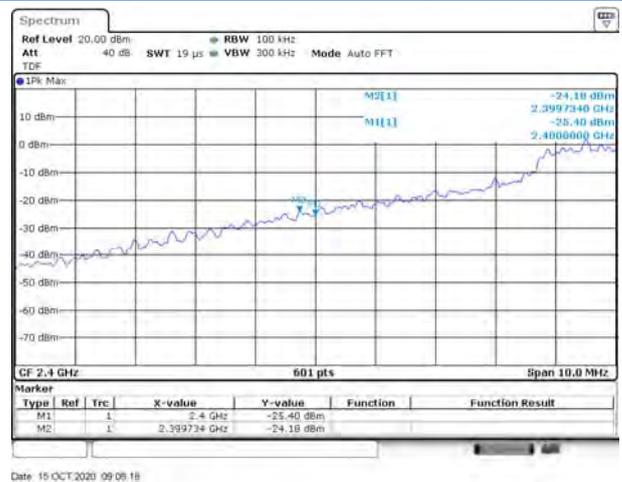
802.11b HIGH CHANNEL, Reference level



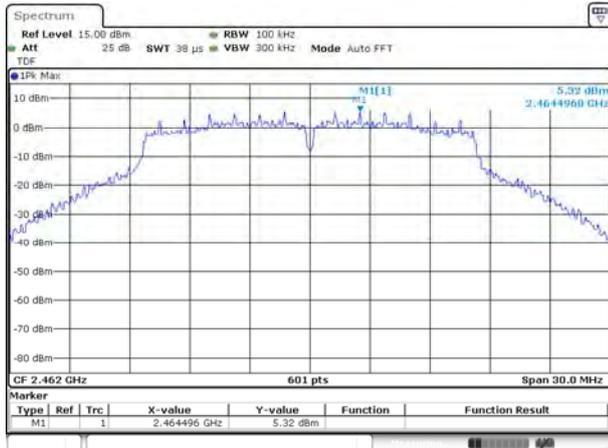
802.11g LOW CHANNEL, Carrier level



802.11g LOW CHANNEL, Reference level

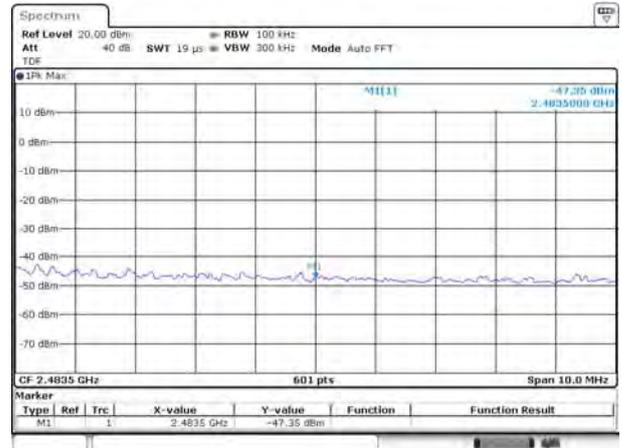


802.11g HIGH CHANNEL, Carrier level



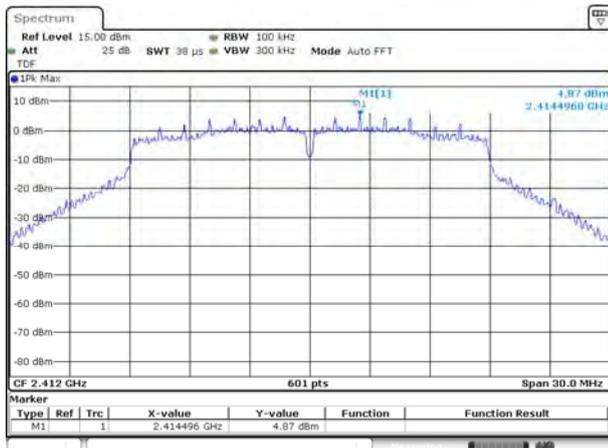
Date: 15.OCT.2020 09:12:20

802.11g HIGH CHANNEL, Reference level



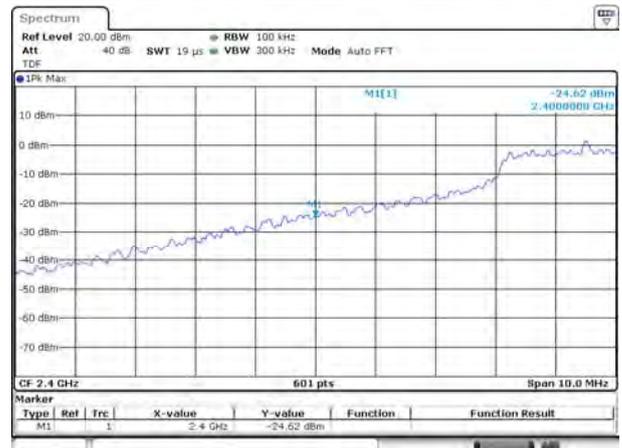
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802.11n-20 MHz LOW CHANNEL, Carrier level



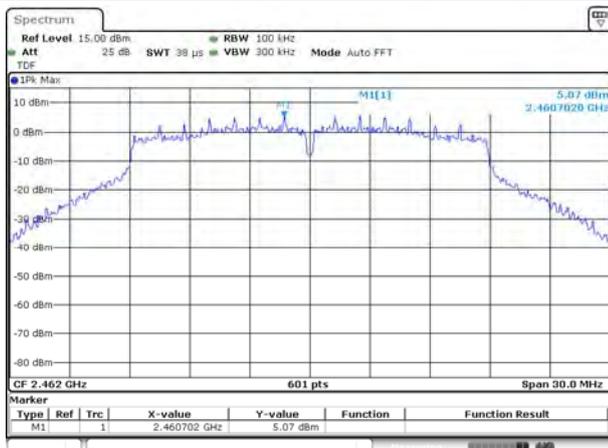
Date: 15.OCT.2020 09:15:23

802.11n-20 MHz LOW CHANNEL, Reference level



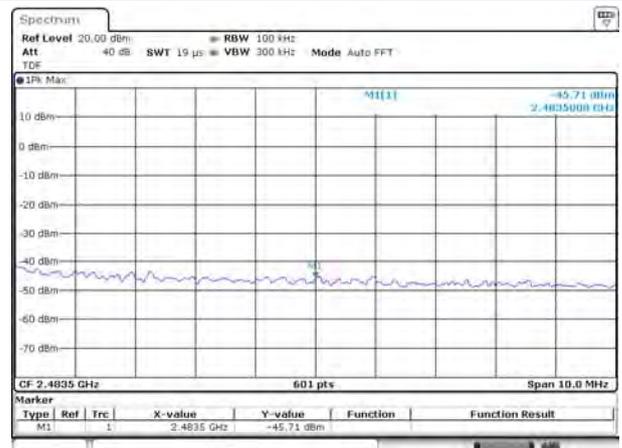
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802.11n-20 MHz HIGH CHANNEL, Carrier level



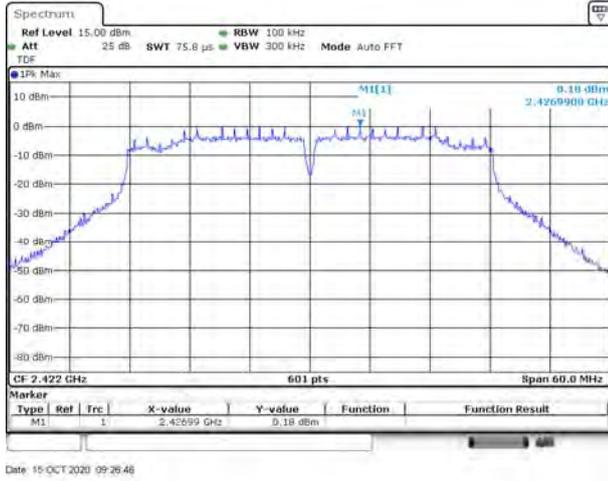
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802.11n-20 MHz HIGH CHANNEL, Reference level

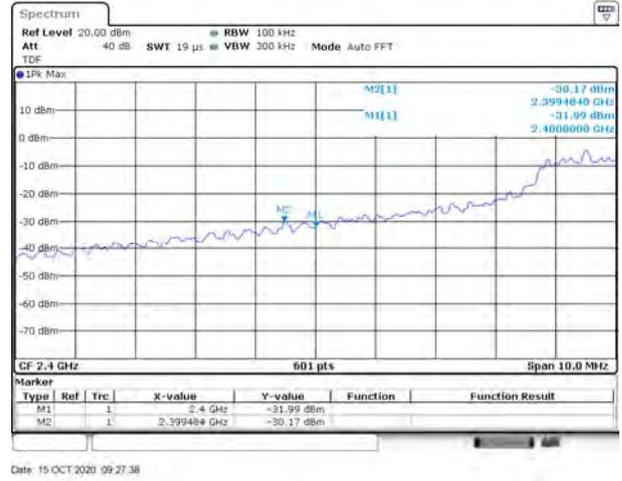


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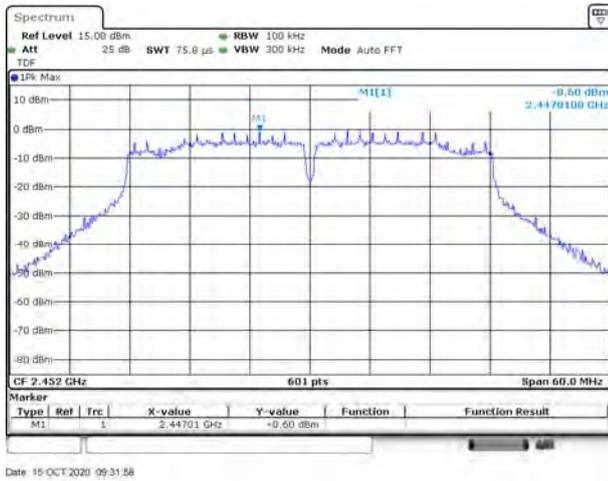
802.11n-40 MHz LOW CHANNEL, Carrier level



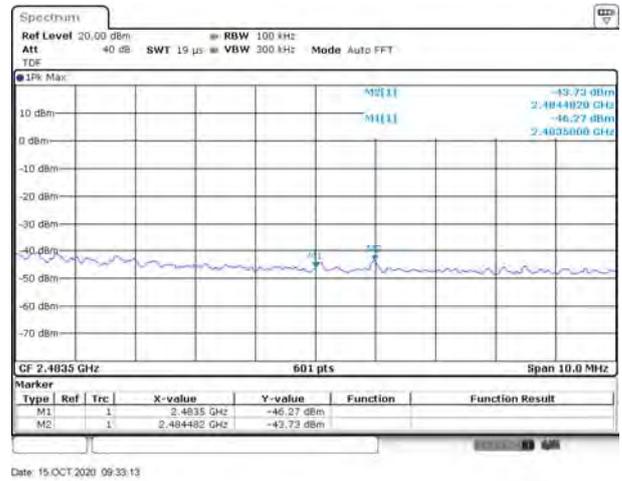
802.11n-40 MHz LOW CHANNEL, Reference level



802.11n-40 MHz HIGH CHANNEL, Carrier level



802.11n-40 MHz HIGH CHANNEL, Reference level



A.5 Conducted Emissions

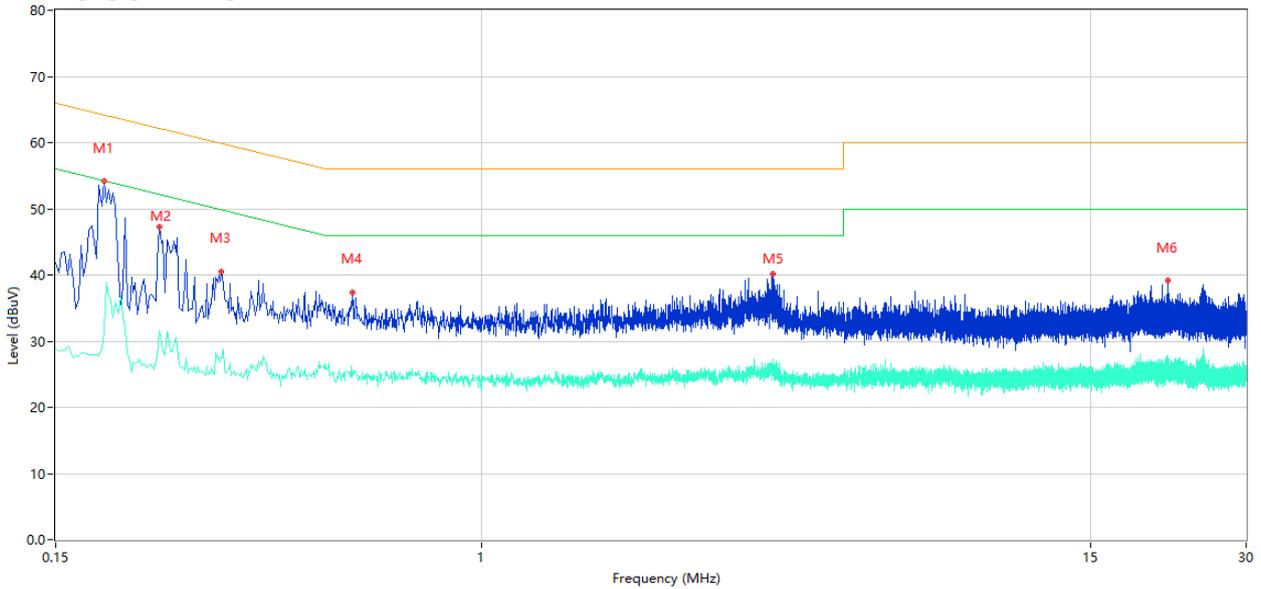
Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.
 Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots

Speed

PHASE L

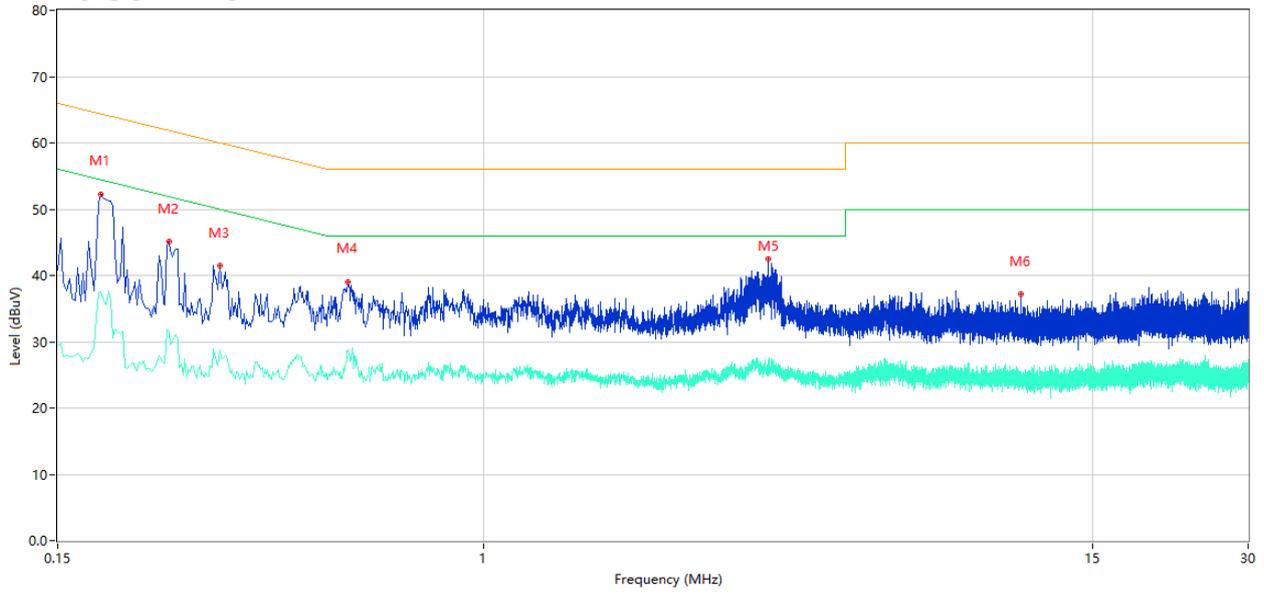
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.186	54.24	10.39	64.21	-9.97	Peak	L	Pass
1**	0.186	31.62	10.39	54.21	-22.59	AV	L	Pass
2	0.238	47.22	10.35	62.17	-14.95	Peak	L	Pass
2**	0.238	31.57	10.35	52.17	-20.60	AV	L	Pass
3	0.314	40.55	10.33	59.86	-19.31	Peak	L	Pass
3**	0.314	27.68	10.33	49.86	-22.18	AV	L	Pass
4	0.562	37.37	10.28	56.00	-18.63	Peak	L	Pass
4**	0.562	24.90	10.28	46.00	-21.10	AV	L	Pass
5	3.642	40.10	10.30	56.00	-15.90	Peak	L	Pass
5**	3.642	26.24	10.30	46.00	-19.76	AV	L	Pass
6	21.176	39.23	10.57	60.00	-20.77	Peak	L	Pass
6**	21.176	26.37	10.57	50.00	-23.63	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B

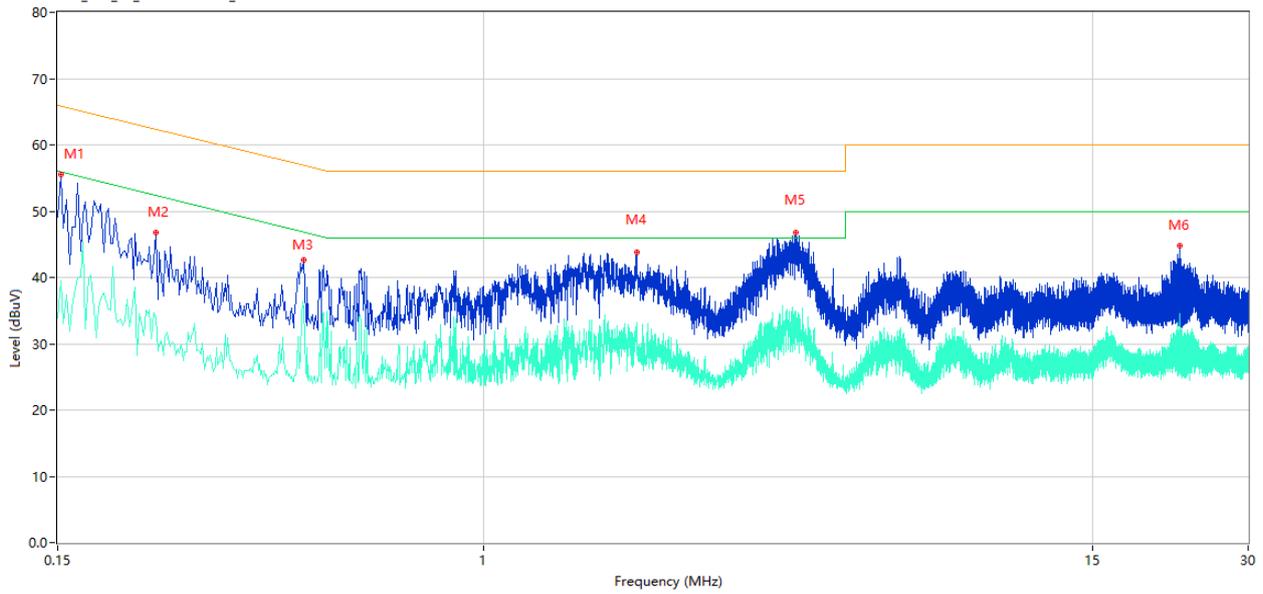


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.182	52.30	10.39	64.39	-12.09	Peak	N	Pass
1**	0.182	37.50	10.39	54.39	-16.89	AV	N	Pass
2	0.246	45.07	10.34	61.89	-16.82	Peak	N	Pass
2**	0.246	31.56	10.34	51.89	-20.33	AV	N	Pass
3	0.308	41.51	10.33	60.02	-18.51	Peak	N	Pass
3**	0.308	28.79	10.33	50.02	-21.23	AV	N	Pass
4	0.546	39.04	10.29	56.00	-16.96	Peak	N	Pass
4**	0.546	28.72	10.29	46.00	-17.28	AV	N	Pass
5	3.540	42.55	10.30	56.00	-13.45	Peak	N	Pass
5**	3.540	26.70	10.30	46.00	-19.30	AV	N	Pass
6	10.934	37.25	10.37	60.00	-22.75	Peak	N	Pass
6**	10.934	25.30	10.37	50.00	-24.70	AV	N	Pass

South Star

PHASE L

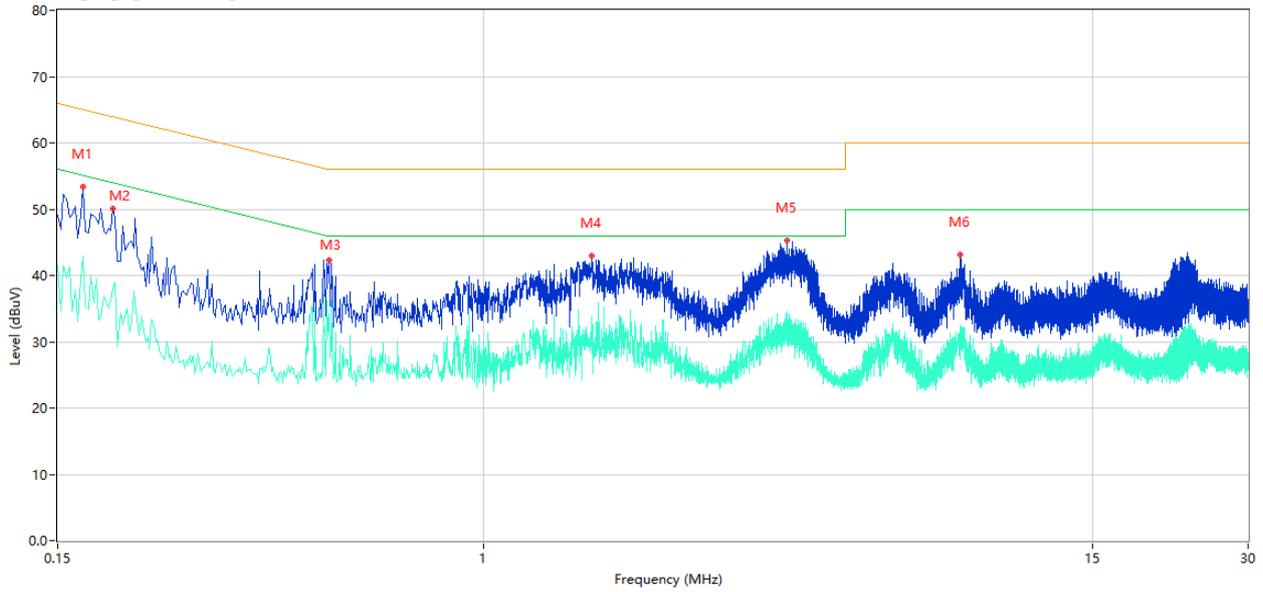
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	55.60	10.41	65.89	-10.29	Peak	L	Pass
1**	0.152	39.48	10.41	55.89	-16.41	AV	L	Pass
2	0.232	46.80	10.36	62.38	-15.58	Peak	L	Pass
2**	0.232	33.87	10.36	52.38	-18.51	AV	L	Pass
3	0.448	42.65	10.30	56.91	-14.26	Peak	L	Pass
3**	0.448	35.42	10.30	46.91	-11.49	AV	L	Pass
4	1.972	43.78	10.26	56.00	-12.22	Peak	L	Pass
4**	1.972	33.30	10.26	46.00	-12.70	AV	L	Pass
5	4.014	46.81	10.29	56.00	-9.19	Peak	L	Pass
5**	4.014	34.88	10.29	46.00	-11.12	AV	L	Pass
6	22.084	44.75	10.59	60.00	-15.25	Peak	L	Pass
6**	22.084	32.34	10.59	50.00	-17.66	AV	L	Pass

PHASE N

CE 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	0.168	53.42	10.40	65.06	-11.64	Peak	N	Pass
1**	0.168	42.97	10.40	55.06	-12.09	AV	N	Pass
2	0.192	50.08	10.38	63.95	-13.87	Peak	N	Pass
2**	0.192	38.09	10.38	53.95	-15.86	AV	N	Pass
3	0.502	42.31	10.30	56.00	-13.69	Peak	N	Pass
3**	0.502	34.20	10.30	46.00	-11.80	AV	N	Pass
4	1.618	42.92	10.26	56.00	-13.08	Peak	N	Pass
4**	1.618	33.90	10.26	46.00	-12.10	AV	N	Pass
5	3.846	45.26	10.29	56.00	-10.74	Peak	N	Pass
5**	3.846	34.50	10.29	46.00	-11.50	AV	N	Pass
6	8.326	43.07	10.34	60.00	-16.93	Peak	N	Pass
6**	8.326	32.40	10.34	50.00	-17.60	AV	N	Pass

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

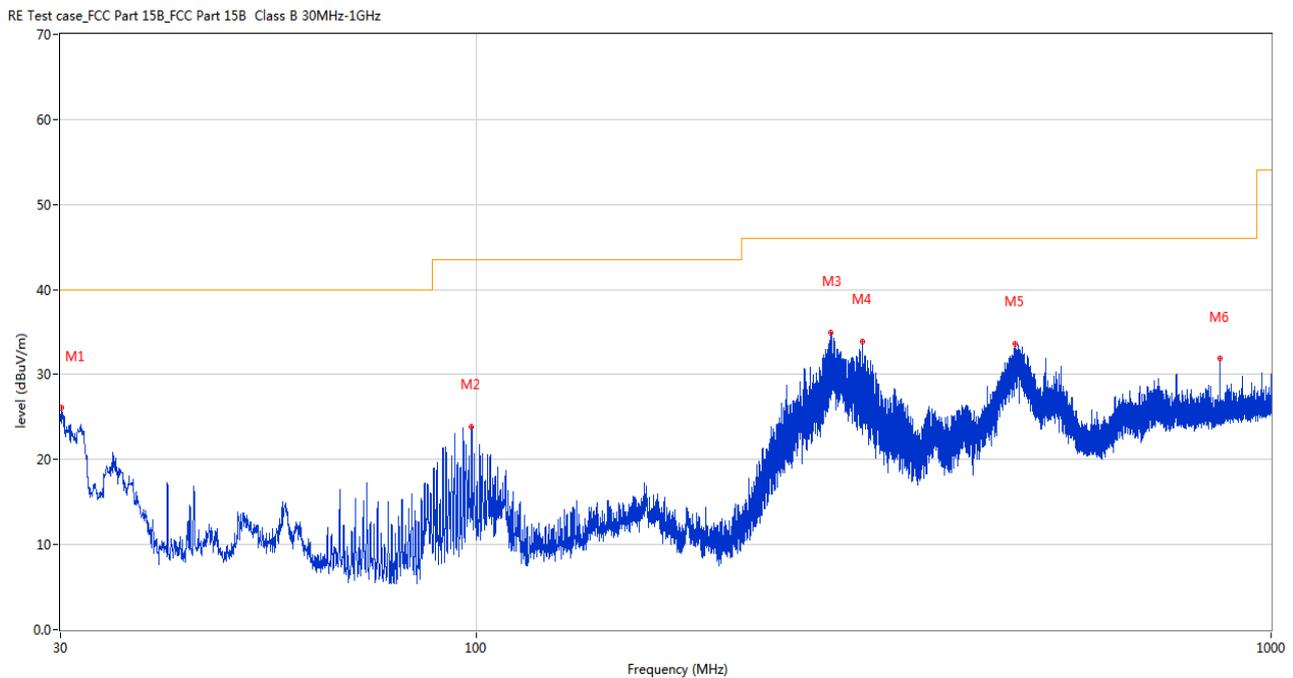
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

Speed

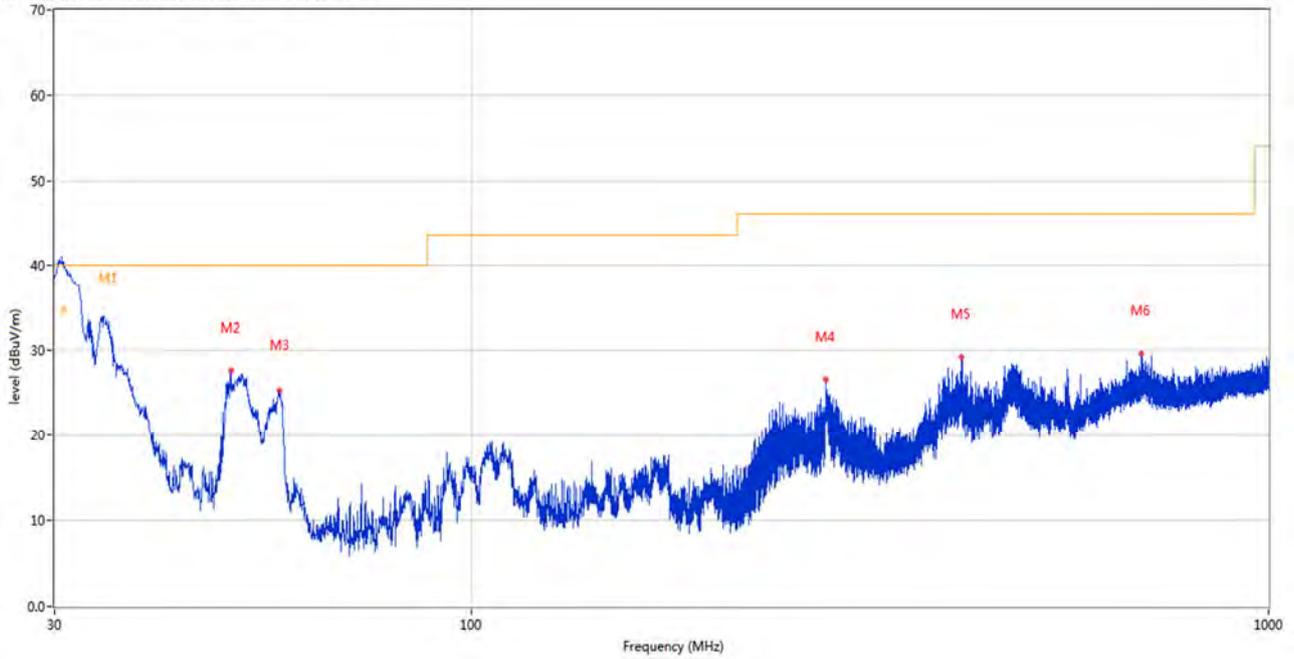
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.049	26.06	-27.19	40.0	-13.94	Peak	339.00	200	Horizontal	Pass
2	98.676	23.85	-29.39	43.5	-19.65	Peak	143.00	200	Horizontal	Pass
3	279.581	34.90	-24.98	46.0	-11.10	Peak	234.00	100	Horizontal	Pass
4	306.110	33.81	-24.02	46.0	-12.19	Peak	98.00	100	Horizontal	Pass
5	475.861	33.56	-19.39	46.0	-12.44	Peak	131.00	200	Horizontal	Pass
6	862.503	31.89	-12.21	46.0	-14.11	Peak	127.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz

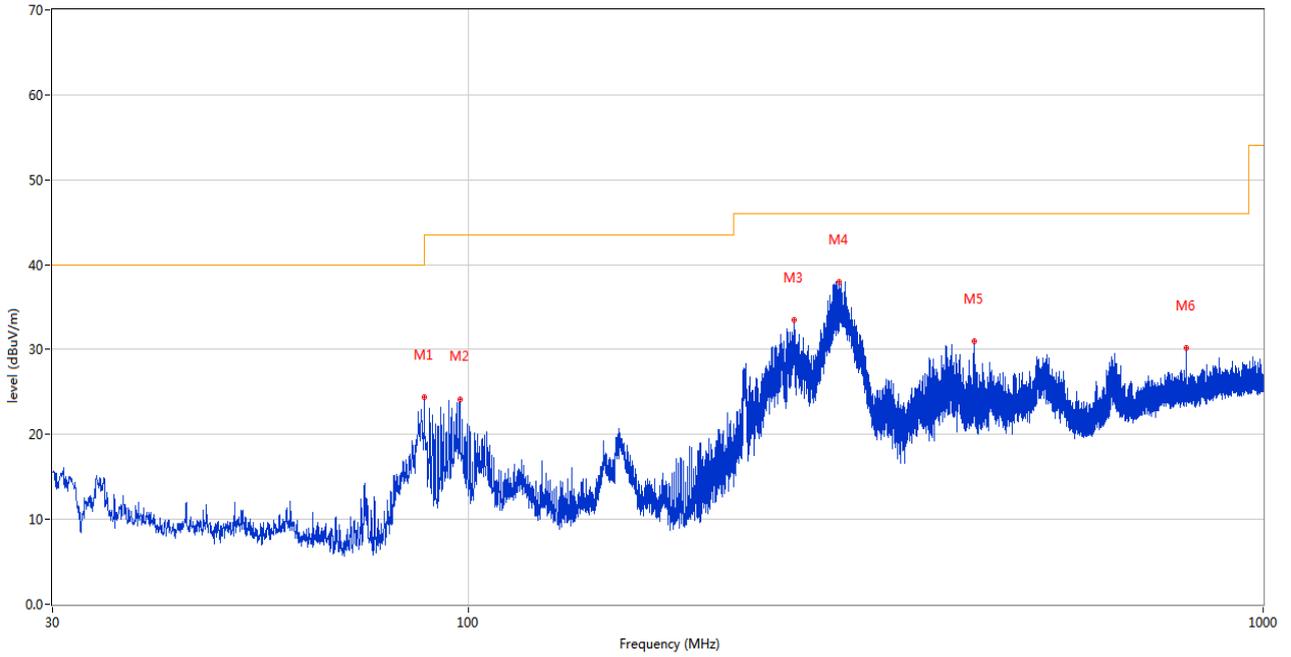


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.793	40.22	-27.13	40.0	0.22	Peak	293.00	121	Vertical	N/A
1*	30.793	33.91	-27.13	40.0	-6.09	QP	293.00	121	Vertical	Pass
2	49.934	27.70	-26.62	40.0	-12.30	Peak	190.00	100	Vertical	Pass
3	57.499	25.34	-26.95	40.0	-14.66	Peak	253.00	100	Vertical	Pass
4	278.611	26.63	-24.97	46.0	-19.37	Peak	178.00	200	Vertical	Pass
5	411.404	29.28	-20.86	46.0	-16.72	Peak	185.00	100	Vertical	Pass
6	693.238	29.70	-14.48	46.0	-16.30	Peak	121.00	200	Vertical	Pass

South Star

30 MHz to 1 GHz, ANT H

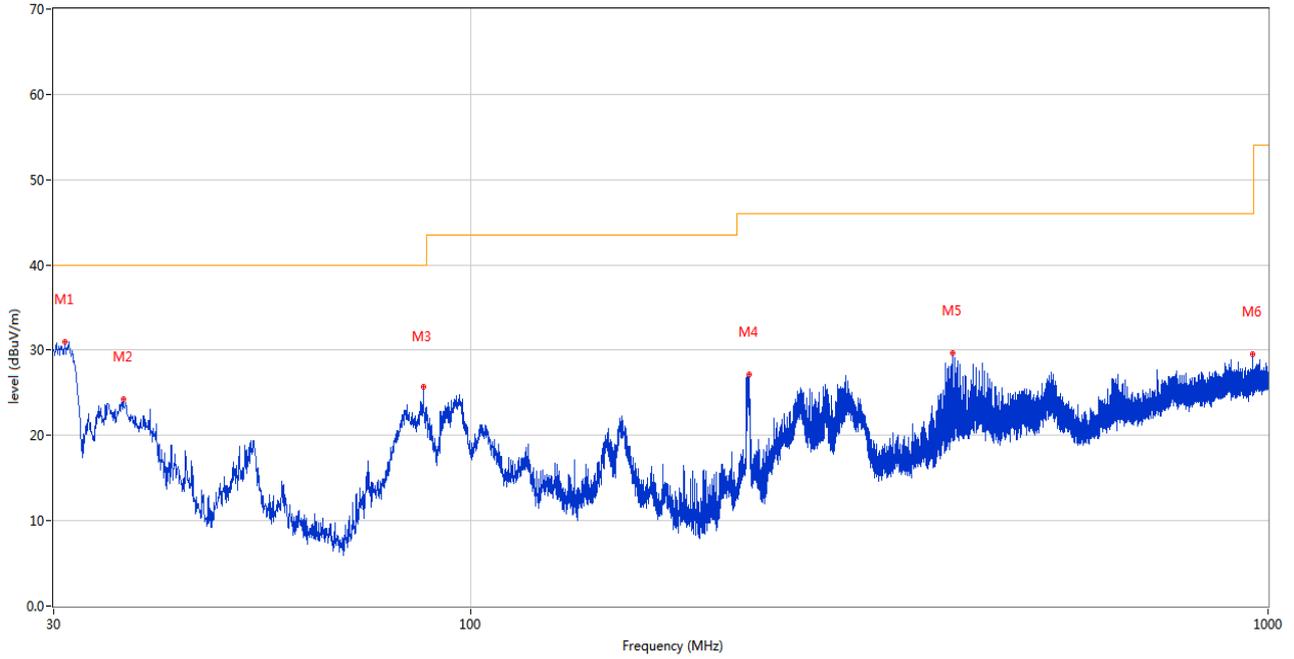
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	88.054	24.38	-30.29	43.5	-19.12	Peak	157.00	200	Horizontal	Pass
2	97.561	24.11	-29.54	43.5	-19.39	Peak	157.00	200	Horizontal	Pass
3	257.125	33.45	-26.13	46.0	-12.55	Peak	154.00	100	Horizontal	Pass
4	292.579	37.96	-24.45	46.0	-8.04	Peak	240.00	100	Horizontal	Pass
5	433.423	30.96	-20.17	46.0	-15.04	Peak	0.00	200	Horizontal	Pass
6	799.986	30.14	-12.68	46.0	-15.86	Peak	120.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.970	30.99	-27.11	40.0	-9.01	Peak	254.00	100	Vertical	Pass
2	36.693	24.25	-26.55	40.0	-15.75	Peak	56.00	100	Vertical	Pass
3	87.230	25.70	-30.34	40.0	-14.30	Peak	128.00	100	Vertical	Pass
4	223.661	27.19	-27.19	46.0	-18.81	Peak	155.00	200	Vertical	Pass
5	401.995	29.70	-21.18	46.0	-16.30	Peak	155.00	200	Vertical	Pass
6	955.234	29.54	-10.76	46.0	-16.46	Peak	0.00	200	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Speed

Main Antenna

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.200	41.82	-18.09	74.0	-32.18	Peak	37.00	150	Horizontal	Pass
1**	1521.200	31.59	-18.09	54.0	-22.41	AV	37.00	150	Horizontal	Pass
2	2410.300	104.18	-13.43	74.0	30.18	Peak	240.00	150	Horizontal	N/A
2**	2410.300	101.19	-13.43	54.0	47.19	AV	240.00	150	Horizontal	N/A
3	2788.000	49.35	-11.08	74.0	-24.65	Peak	293.00	150	Horizontal	Pass
3**	2788.000	40.68	-11.08	54.0	-13.32	AV	293.00	150	Horizontal	Pass
4	5068.600	50.64	-3.41	74.0	-23.36	Peak	338.00	150	Horizontal	Pass
4**	5068.600	41.12	-3.41	54.0	-12.88	AV	338.00	150	Horizontal	Pass
5	7427.800	49.01	-4.15	74.0	-24.99	Peak	0.00	150	Horizontal	Pass
5**	7427.800	39.74	-4.15	54.0	-14.26	AV	0.00	150	Horizontal	Pass
6	12238.825	51.57	-0.32	74.0	-22.43	Peak	310.00	150	Horizontal	Pass
6**	12238.825	41.61	-0.32	54.0	-12.39	AV	310.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.700	42.48	-17.93	74.0	-31.52	Peak	296.00	150	Vertical	Pass
1**	1496.700	32.52	-17.93	54.0	-21.48	AV	296.00	150	Vertical	Pass
2	2413.400	101.32	-13.52	74.0	27.32	Peak	190.00	150	Vertical	N/A
2**	2413.400	98.29	-13.52	54.0	44.29	AV	190.00	150	Vertical	N/A
3	2725.900	49.72	-10.69	74.0	-24.28	Peak	307.00	150	Vertical	Pass
3**	2725.900	40.15	-10.69	54.0	-13.85	AV	307.00	150	Vertical	Pass
4	5054.600	50.50	-3.63	74.0	-23.50	Peak	99.00	150	Vertical	Pass
4**	5054.600	42.44	-3.63	54.0	-11.56	AV	99.00	150	Vertical	Pass
5	8089.050	48.33	-3.58	74.0	-25.67	Peak	261.00	150	Vertical	Pass
5**	8089.050	38.83	-3.58	54.0	-15.17	AV	261.00	150	Vertical	Pass
6	12324.213	51.31	-0.51	74.0	-22.69	Peak	121.00	150	Vertical	Pass
6**	12324.213	43.18	-0.51	54.0	-10.82	AV	121.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1517.600	41.47	-17.94	74.0	-32.53	Peak	51.00	150	Horizontal	Pass
1**	1517.600	33.54	-17.94	54.0	-20.46	AV	51.00	150	Horizontal	Pass
2	2435.400	104.55	-13.54	74.0	30.55	Peak	244.00	150	Horizontal	N/A
2**	2435.400	101.58	-13.54	54.0	47.58	AV	244.00	150	Horizontal	N/A
3	2899.400	49.53	-11.02	74.0	-24.47	Peak	122.00	150	Horizontal	Pass
3**	2899.400	40.75	-11.02	54.0	-13.25	AV	122.00	150	Horizontal	Pass
4	4821.800	49.82	-4.26	74.0	-24.18	Peak	328.00	150	Horizontal	Pass
4**	4821.800	40.15	-4.26	54.0	-13.85	AV	328.00	150	Horizontal	Pass
5	8098.250	48.21	-3.59	74.0	-25.79	Peak	113.00	150	Horizontal	Pass
5**	8098.250	39.37	-3.59	54.0	-14.63	AV	113.00	150	Horizontal	Pass
6	12099.963	51.51	-1.03	74.0	-22.49	Peak	0.00	150	Horizontal	Pass
6**	12099.963	42.72	-1.03	54.0	-11.28	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1637.700	42.40	-17.94	74.0	-31.60	Peak	160.00	150	Vertical	Pass
1**	1637.700	32.55	-17.94	54.0	-21.45	AV	160.00	150	Vertical	Pass
2	2435.500	101.47	-13.54	74.0	27.47	Peak	180.00	150	Vertical	N/A
2**	2435.500	98.53	-13.54	54.0	44.53	AV	180.00	150	Vertical	N/A
3	2901.400	49.41	-11.04	74.0	-24.59	Peak	265.00	150	Vertical	Pass
3**	2901.400	40.15	-11.04	54.0	-13.85	AV	265.00	150	Vertical	Pass
4	4828.800	49.92	-4.13	74.0	-24.08	Peak	250.00	150	Vertical	Pass
4**	4828.800	40.63	-4.13	54.0	-13.37	AV	250.00	150	Vertical	Pass
5	8057.138	48.46	-3.15	74.0	-25.54	Peak	40.00	150	Vertical	Pass
5**	8057.138	39.64	-3.15	54.0	-14.36	AV	40.00	150	Vertical	Pass
6	12198.287	51.63	-0.77	74.0	-22.37	Peak	347.00	150	Vertical	Pass
6**	12198.287	41.63	-0.77	54.0	-12.37	AV	347.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.100	42.25	-17.89	74.0	-31.75	Peak	140.00	150	Horizontal	Pass
1**	1579.100	31.95	-17.89	54.0	-22.05	AV	140.00	150	Horizontal	Pass
2	2460.600	104.24	-13.91	74.0	30.24	Peak	231.00	150	Horizontal	N/A
2**	2460.600	101.36	-13.91	54.0	47.36	AV	231.00	150	Horizontal	N/A
3	2906.700	50.08	-10.76	74.0	-23.92	Peak	45.00	150	Horizontal	Pass
3**	2906.700	39.49	-10.76	54.0	-14.51	AV	45.00	150	Horizontal	Pass
4	5004.000	50.62	-3.82	74.0	-23.38	Peak	51.00	150	Horizontal	Pass
4**	5004.000	40.08	-3.82	54.0	-13.92	AV	51.00	150	Horizontal	Pass
5	8050.525	49.14	-3.07	74.0	-24.86	Peak	326.00	150	Horizontal	Pass
5**	8050.525	39.25	-3.07	54.0	-14.75	AV	326.00	150	Horizontal	Pass
6	12261.826	51.87	0.04	74.0	-22.13	Peak	163.00	150	Horizontal	Pass
6**	12261.826	42.64	0.04	54.0	-11.36	AV	163.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1725.000	42.15	-17.70	74.0	-31.85	Peak	263.00	150	Vertical	Pass
1**	1725.000	36.35	-17.70	54.0	-17.65	AV	263.00	150	Vertical	Pass
2	2460.600	101.43	-13.91	74.0	27.43	Peak	182.00	150	Vertical	N/A
2**	2460.600	98.50	-13.91	54.0	44.50	AV	182.00	150	Vertical	N/A
3	2906.800	50.15	-10.74	74.0	-23.85	Peak	66.00	150	Vertical	Pass
3**	2906.800	40.10	-10.74	54.0	-13.90	AV	66.00	150	Vertical	Pass
4	4782.800	49.53	-4.18	74.0	-24.47	Peak	0.00	150	Vertical	Pass
4**	4782.800	39.49	-4.18	54.0	-14.51	AV	0.00	150	Vertical	Pass
5	8095.375	47.92	-3.46	74.0	-26.08	Peak	222.00	150	Vertical	Pass
5**	8095.375	38.49	-3.46	54.0	-15.51	AV	222.00	150	Vertical	Pass
6	12382.862	51.39	-1.59	74.0	-22.61	Peak	360.00	150	Vertical	Pass
6**	12382.862	41.39	-1.59	54.0	-12.61	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1536.400	41.98	-18.08	74.0	-32.02	Peak	145.00	150	Horizontal	Pass
1**	1536.400	32.36	-18.08	54.0	-21.64	AV	145.00	150	Horizontal	Pass
2	2412.900	107.46	-13.52	74.0	33.46	Peak	239.00	150	Horizontal	N/A
2**	2412.900	98.83	-13.52	54.0	44.83	AV	239.00	150	Horizontal	N/A
3	2790.400	49.55	-11.10	74.0	-24.45	Peak	145.00	150	Horizontal	Pass
3**	2790.400	40.46	-11.10	54.0	-13.54	AV	145.00	150	Horizontal	Pass
4	4120.400	47.31	-5.63	74.0	-26.69	Peak	22.00	150	Horizontal	Pass
4**	4120.400	38.01	-5.63	54.0	-15.99	AV	22.00	150	Horizontal	Pass
5	6946.200	52.75	-0.97	74.0	-21.25	Peak	63.00	150	Horizontal	Pass
5**	6946.200	44.32	-0.97	54.0	-9.68	AV	63.00	150	Horizontal	Pass
6	12011.125	51.76	-1.24	74.0	-22.24	Peak	169.00	150	Horizontal	Pass
6**	12011.125	42.78	-1.24	54.0	-11.22	AV	169.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1785.800	42.59	-17.38	74.0	-31.41	Peak	263.00	150	Vertical	Pass
1**	1785.800	32.71	-17.38	54.0	-21.29	AV	263.00	150	Vertical	Pass
2	2417.700	104.41	-13.49	74.0	30.41	Peak	184.00	150	Vertical	N/A
2**	2417.700	95.94	-13.49	54.0	41.94	AV	184.00	150	Vertical	N/A
3	2800.500	50.05	-11.40	74.0	-23.95	Peak	326.00	150	Vertical	Pass
3**	2800.500	40.50	-11.40	54.0	-13.50	AV	326.00	150	Vertical	Pass
4	3989.600	47.21	-6.34	74.0	-26.79	Peak	145.00	150	Vertical	Pass
4**	3989.600	37.14	-6.34	54.0	-16.86	AV	145.00	150	Vertical	Pass
5	6816.200	53.06	-1.31	74.0	-20.94	Peak	172.00	150	Vertical	Pass
5**	6816.200	44.01	-1.31	54.0	-9.99	AV	172.00	150	Vertical	Pass
6	12270.737	51.25	0.07	74.0	-22.75	Peak	18.00	150	Vertical	Pass
6**	12270.737	42.66	0.07	54.0	-11.34	AV	18.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1488.000	41.98	-17.97	74.0	-32.02	Peak	46.00	150	Horizontal	Pass
1**	1488.000	32.04	-17.97	54.0	-21.96	AV	46.00	150	Horizontal	Pass
2	2433.700	107.10	-13.52	74.0	33.10	Peak	313.00	150	Horizontal	N/A
2**	2433.700	99.73	-13.52	54.0	45.73	AV	313.00	150	Horizontal	N/A
3	2787.100	49.75	-11.13	74.0	-24.25	Peak	0.00	150	Horizontal	Pass
3**	2787.100	40.69	-11.13	54.0	-13.31	AV	0.00	150	Horizontal	Pass
4	4477.800	49.34	-4.95	74.0	-24.66	Peak	94.00	150	Horizontal	Pass
4**	4477.800	39.33	-4.95	54.0	-14.67	AV	94.00	150	Horizontal	Pass
5	6810.600	52.88	-1.34	74.0	-21.12	Peak	42.00	150	Horizontal	Pass
5**	6810.600	43.12	-1.34	54.0	-10.88	AV	42.00	150	Horizontal	Pass
6	12263.262	50.95	0.05	74.0	-23.05	Peak	0.00	150	Horizontal	Pass
6**	12263.262	42.12	0.05	54.0	-11.88	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1429.800	43.58	-17.71	74.0	-30.42	Peak	190.00	150	Vertical	Pass
1**	1429.800	32.22	-17.71	54.0	-21.78	AV	190.00	150	Vertical	Pass
2	2433.700	104.05	-13.52	74.0	30.05	Peak	175.00	150	Vertical	N/A
2**	2433.700	96.73	-13.52	54.0	42.73	AV	175.00	150	Vertical	N/A
3	2937.400	50.30	-11.32	74.0	-23.70	Peak	262.00	150	Vertical	Pass
3**	2937.400	40.11	-11.32	54.0	-13.89	AV	262.00	150	Vertical	Pass
4	3994.400	47.54	-6.32	74.0	-26.46	Peak	143.00	150	Vertical	Pass
4**	3994.400	37.58	-6.32	54.0	-16.42	AV	143.00	150	Vertical	Pass
5	6823.200	53.51	-1.32	74.0	-20.49	Peak	189.00	150	Vertical	Pass
5**	6823.200	43.50	-1.32	54.0	-10.50	AV	189.00	150	Vertical	Pass
6	11594.825	51.06	-0.11	74.0	-22.94	Peak	164.00	150	Vertical	Pass
6**	11594.825	41.81	-0.11	54.0	-12.19	AV	164.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1590.800	42.16	-17.95	74.0	-31.84	Peak	175.00	150	Horizontal	Pass
1**	1590.800	32.75	-17.95	54.0	-21.25	AV	175.00	150	Horizontal	Pass
2	2465.000	106.95	-13.73	74.0	32.95	Peak	316.00	150	Horizontal	N/A
2**	2465.000	99.28	-13.73	54.0	45.28	AV	316.00	150	Horizontal	N/A
3	2712.800	50.14	-11.21	74.0	-23.86	Peak	191.00	150	Horizontal	Pass
3**	2712.800	40.21	-11.21	54.0	-13.79	AV	191.00	150	Horizontal	Pass
4	4250.800	47.89	-5.55	74.0	-26.11	Peak	335.00	150	Horizontal	Pass
4**	4250.800	37.83	-5.55	54.0	-16.17	AV	335.00	150	Horizontal	Pass
5	6815.800	53.39	-1.32	74.0	-20.61	Peak	141.00	150	Horizontal	Pass
5**	6815.800	43.11	-1.32	54.0	-10.89	AV	141.00	150	Horizontal	Pass
6	11595.688	51.08	-0.11	74.0	-22.92	Peak	304.00	150	Horizontal	Pass
6**	11595.688	42.06	-0.11	54.0	-11.94	AV	304.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1426.700	41.82	-17.79	74.0	-32.18	Peak	30.00	150	Vertical	Pass
1**	1426.700	31.86	-17.79	54.0	-22.14	AV	30.00	150	Vertical	Pass
2	2461.000	103.41	-13.91	74.0	29.41	Peak	182.00	150	Vertical	N/A
2**	2461.000	95.69	-13.91	54.0	41.69	AV	182.00	150	Vertical	N/A
3	2717.900	49.37	-10.76	74.0	-24.63	Peak	257.00	150	Vertical	Pass
3**	2717.900	40.48	-10.76	54.0	-13.52	AV	257.00	150	Vertical	Pass
4	3957.800	47.71	-6.78	74.0	-26.29	Peak	257.00	150	Vertical	Pass
4**	3957.800	37.06	-6.78	54.0	-16.94	AV	257.00	150	Vertical	Pass
5	6479.800	52.95	-1.43	74.0	-21.05	Peak	272.00	150	Vertical	Pass
5**	6479.800	42.44	-1.43	54.0	-11.56	AV	272.00	150	Vertical	Pass
6	11614.375	51.96	-0.16	74.0	-22.04	Peak	0.00	150	Vertical	Pass
6**	11614.375	41.44	-0.16	54.0	-12.56	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1562.500	42.25	-17.89	74.0	-31.75	Peak	51.00	150	Horizontal	Pass
1**	1562.500	32.52	-17.89	54.0	-21.48	AV	51.00	150	Horizontal	Pass
2	2418.300	106.77	-13.52	74.0	32.77	Peak	233.00	150	Horizontal	N/A
2**	2418.300	98.55	-13.52	54.0	44.55	AV	233.00	150	Horizontal	N/A
3	2773.700	50.05	-11.46	74.0	-23.95	Peak	184.00	150	Horizontal	Pass
3**	2773.700	40.86	-11.46	54.0	-13.14	AV	184.00	150	Horizontal	Pass
4	4859.200	50.40	-3.67	74.0	-23.60	Peak	248.00	150	Horizontal	Pass
4**	4859.200	40.74	-3.67	54.0	-13.26	AV	248.00	150	Horizontal	Pass
5	6783.000	53.27	-1.60	74.0	-20.73	Peak	114.00	150	Horizontal	Pass
5**	6783.000	44.45	-1.60	54.0	-9.55	AV	114.00	150	Horizontal	Pass
6	12156.888	51.73	-0.86	74.0	-22.27	Peak	255.00	150	Horizontal	Pass
6**	12156.888	41.67	-0.86	54.0	-12.33	AV	255.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1687.500	42.35	-17.89	74.0	-31.65	Peak	177.00	150	Vertical	Pass
1**	1687.500	32.92	-17.89	54.0	-21.08	AV	177.00	150	Vertical	Pass
2	2416.900	103.37	-13.44	74.0	29.37	Peak	177.00	150	Vertical	N/A
2**	2416.900	95.53	-13.44	54.0	41.53	AV	177.00	150	Vertical	N/A
3	2691.100	49.71	-11.32	74.0	-24.29	Peak	245.00	150	Vertical	Pass
3**	2691.100	41.35	-11.32	54.0	-12.65	AV	245.00	150	Vertical	Pass
4	3998.400	47.57	-6.20	74.0	-26.43	Peak	255.00	150	Vertical	Pass
4**	3998.400	37.41	-6.20	54.0	-16.59	AV	255.00	150	Vertical	Pass
5	6009.200	52.39	-2.39	74.0	-21.61	Peak	359.00	150	Vertical	Pass
5**	6009.200	42.25	-2.39	54.0	-11.75	AV	359.00	150	Vertical	Pass
6	12587.275	51.06	-1.28	74.0	-22.94	Peak	3.00	150	Vertical	Pass
6**	12587.275	42.12	-1.28	54.0	-11.88	AV	3.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.600	42.00	-17.81	74.0	-32.00	Peak	127.00	150	Horizontal	Pass
1**	1435.600	32.40	-17.81	54.0	-21.60	AV	127.00	150	Horizontal	Pass
2	2434.300	106.92	-13.53	74.0	32.92	Peak	236.00	150	Horizontal	N/A
2**	2434.300	99.53	-13.53	54.0	45.53	AV	236.00	150	Horizontal	N/A
3	2961.800	49.96	-10.86	74.0	-24.04	Peak	282.00	150	Horizontal	Pass
3**	2961.800	40.50	-10.86	54.0	-13.50	AV	282.00	150	Horizontal	Pass
4	4321.200	48.33	-5.02	74.0	-25.67	Peak	104.00	150	Horizontal	Pass
4**	4321.200	37.81	-5.02	54.0	-16.19	AV	104.00	150	Horizontal	Pass
5	6092.000	52.56	-1.57	74.0	-21.44	Peak	359.00	150	Horizontal	Pass
5**	6092.000	42.62	-1.57	54.0	-11.38	AV	359.00	150	Horizontal	Pass
6	11590.225	52.36	-0.07	74.0	-21.64	Peak	124.00	150	Horizontal	Pass
6**	11590.225	42.13	-0.07	54.0	-11.87	AV	124.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1351.500	42.81	-18.08	74.0	-31.19	Peak	197.00	150	Vertical	Pass
1**	1351.500	32.44	-18.08	54.0	-21.56	AV	197.00	150	Vertical	Pass
2	2433.400	103.14	-13.51	74.0	29.14	Peak	179.00	150	Vertical	N/A
2**	2433.400	95.28	-13.51	54.0	41.28	AV	179.00	150	Vertical	N/A
3	2971.600	50.20	-11.15	74.0	-23.80	Peak	56.00	150	Vertical	Pass
3**	2971.600	39.84	-11.15	54.0	-14.16	AV	56.00	150	Vertical	Pass
4	3992.400	47.34	-6.26	74.0	-26.66	Peak	251.00	150	Vertical	Pass
4**	3992.400	38.70	-6.26	54.0	-15.30	AV	251.00	150	Vertical	Pass
5	6720.200	52.80	-2.64	74.0	-21.20	Peak	197.00	150	Vertical	Pass
5**	6720.200	42.84	-2.64	54.0	-11.16	AV	197.00	150	Vertical	Pass
6	12327.088	51.27	-0.59	74.0	-22.73	Peak	219.00	150	Vertical	Pass
6**	12327.088	41.70	-0.59	54.0	-12.30	AV	219.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1474.300	41.98	-17.92	74.0	-32.02	Peak	76.00	150	Horizontal	Pass
1**	1474.300	31.91	-17.92	54.0	-22.09	AV	76.00	150	Horizontal	Pass
2	2466.400	106.88	-13.69	74.0	32.88	Peak	240.00	150	Horizontal	N/A
2**	2466.400	98.90	-13.69	54.0	44.90	AV	240.00	150	Horizontal	N/A
3	2914.000	49.57	-10.82	74.0	-24.43	Peak	8.00	150	Horizontal	Pass
3**	2914.000	40.00	-10.82	54.0	-14.00	AV	8.00	150	Horizontal	Pass
4	3905.600	47.09	-7.54	74.0	-26.91	Peak	315.00	150	Horizontal	Pass
4**	3905.600	36.65	-7.54	54.0	-17.35	AV	315.00	150	Horizontal	Pass
5	6810.600	52.73	-1.34	74.0	-21.27	Peak	132.00	150	Horizontal	Pass
5**	6810.600	44.22	-1.34	54.0	-9.78	AV	132.00	150	Horizontal	Pass
6	12272.463	51.58	0.07	74.0	-22.42	Peak	261.00	150	Horizontal	Pass
6**	12272.463	43.22	0.07	54.0	-10.78	AV	261.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1905.700	44.64	-16.57	74.0	-29.36	Peak	356.00	150	Vertical	Pass
1**	1905.700	33.54	-16.57	54.0	-20.46	AV	356.00	150	Vertical	Pass
2	2464.800	103.41	-13.74	74.0	29.41	Peak	176.00	150	Vertical	N/A
2**	2464.800	94.99	-13.74	54.0	40.99	AV	176.00	150	Vertical	N/A
3	2827.400	49.82	-11.85	74.0	-24.18	Peak	347.00	150	Vertical	Pass
3**	2827.400	39.36	-11.85	54.0	-14.64	AV	347.00	150	Vertical	Pass
4	4467.200	49.17	-4.82	74.0	-24.83	Peak	169.00	150	Vertical	Pass
4**	4467.200	39.78	-4.82	54.0	-14.22	AV	169.00	150	Vertical	Pass
5	6625.200	52.84	-1.46	74.0	-21.16	Peak	0.00	150	Vertical	Pass
5**	6625.200	42.68	-1.46	54.0	-11.32	AV	0.00	150	Vertical	Pass
6	12265.850	51.57	0.05	74.0	-22.43	Peak	69.00	150	Vertical	Pass
6**	12265.850	42.47	0.05	54.0	-11.53	AV	69.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1559.500	41.67	-17.89	74.0	-32.33	Peak	148.00	150	Horizontal	Pass
1**	1559.500	32.31	-17.89	54.0	-21.69	AV	148.00	150	Horizontal	Pass
2	2407.300	104.18	-13.48	74.0	30.18	Peak	239.00	150	Horizontal	N/A
2**	2407.300	95.20	-13.48	54.0	41.20	AV	239.00	150	Horizontal	N/A
3	2961.600	49.63	-10.88	74.0	-24.37	Peak	110.00	150	Horizontal	Pass
3**	2961.600	39.95	-10.88	54.0	-14.05	AV	110.00	150	Horizontal	Pass
4	4265.400	47.71	-5.36	74.0	-26.29	Peak	337.00	150	Horizontal	Pass
4**	4265.400	38.26	-5.36	54.0	-15.74	AV	337.00	150	Horizontal	Pass
5	6876.600	53.01	-1.96	74.0	-20.99	Peak	103.00	150	Horizontal	Pass
5**	6876.600	44.25	-1.96	54.0	-9.75	AV	103.00	150	Horizontal	Pass
6	12103.987	51.65	-0.96	74.0	-22.35	Peak	205.00	150	Horizontal	Pass
6**	12103.987	42.99	-0.96	54.0	-11.01	AV	205.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1536.300	41.91	-18.08	74.0	-32.09	Peak	297.00	150	Vertical	Pass
1**	1536.300	32.02	-18.08	54.0	-21.98	AV	297.00	150	Vertical	Pass
2	2433.500	101.28	-13.51	74.0	27.28	Peak	183.00	150	Vertical	N/A
2**	2433.500	93.55	-13.51	54.0	39.55	AV	183.00	150	Vertical	N/A
3	2963.800	49.96	-10.86	74.0	-24.04	Peak	313.00	150	Vertical	Pass
3**	2963.800	40.91	-10.86	54.0	-13.09	AV	313.00	150	Vertical	Pass
4	3986.800	46.85	-6.39	74.0	-27.15	Peak	152.00	150	Vertical	Pass
4**	3986.800	37.24	-6.39	54.0	-16.76	AV	152.00	150	Vertical	Pass
5	6826.600	53.76	-1.52	74.0	-20.24	Peak	238.00	150	Vertical	Pass
5**	6826.600	43.40	-1.52	54.0	-10.60	AV	238.00	150	Vertical	Pass
6	12108.013	50.97	-0.88	74.0	-23.03	Peak	209.00	150	Vertical	Pass
6**	12108.013	41.81	-0.88	54.0	-12.19	AV	209.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1557.900	42.42	-17.97	74.0	-31.58	Peak	185.00	150	Horizontal	Pass
1**	1557.900	32.03	-17.97	54.0	-21.97	AV	185.00	150	Horizontal	Pass
2	2422.400	103.62	-13.63	74.0	29.62	Peak	249.00	150	Horizontal	N/A
2**	2422.400	95.43	-13.63	54.0	41.43	AV	249.00	150	Horizontal	N/A
3	2717.500	49.98	-10.83	74.0	-24.02	Peak	144.00	150	Horizontal	Pass
3**	2717.500	40.56	-10.83	54.0	-13.44	AV	144.00	150	Horizontal	Pass
4	3998.400	47.18	-6.20	74.0	-26.82	Peak	144.00	150	Horizontal	Pass
4**	3998.400	37.55	-6.20	54.0	-16.45	AV	144.00	150	Horizontal	Pass
5	5832.800	52.31	-3.10	74.0	-21.69	Peak	144.00	150	Horizontal	Pass
5**	5832.800	41.49	-3.10	54.0	-12.51	AV	144.00	150	Horizontal	Pass
6	12066.612	51.90	-1.44	74.0	-22.10	Peak	187.00	150	Horizontal	Pass
6**	12066.612	41.60	-1.44	54.0	-12.40	AV	187.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.000	42.15	-17.98	74.0	-31.85	Peak	107.00	150	Vertical	Pass
1**	1585.000	33.24	-17.98	54.0	-20.76	AV	107.00	150	Vertical	Pass
2	2427.800	101.00	-13.59	74.0	27.00	Peak	186.00	150	Vertical	N/A
2**	2427.800	93.20	-13.59	54.0	39.20	AV	186.00	150	Vertical	N/A
3	2789.900	49.94	-11.10	74.0	-24.06	Peak	210.00	150	Vertical	Pass
3**	2789.900	40.73	-11.10	54.0	-13.27	AV	210.00	150	Vertical	Pass
4	3998.800	47.31	-6.21	74.0	-26.69	Peak	146.00	150	Vertical	Pass
4**	3998.800	38.07	-6.21	54.0	-15.93	AV	146.00	150	Vertical	Pass
5	6711.000	52.99	-2.54	74.0	-21.01	Peak	0.00	150	Vertical	Pass
5**	6711.000	43.03	-2.54	54.0	-10.97	AV	0.00	150	Vertical	Pass
6	12360.724	50.93	-1.52	74.0	-23.07	Peak	360.00	150	Vertical	Pass
6**	12360.724	41.27	-1.52	54.0	-12.73	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1453.200	41.58	-17.80	74.0	-32.42	Peak	0.00	150	Horizontal	Pass
1**	1453.200	32.01	-17.80	54.0	-21.99	AV	0.00	150	Horizontal	Pass
2	2442.900	104.51	-13.36	74.0	30.51	Peak	228.00	150	Horizontal	N/A
2**	2442.900	96.11	-13.36	54.0	42.11	AV	228.00	150	Horizontal	N/A
3	2954.400	49.58	-11.04	74.0	-24.42	Peak	10.00	150	Horizontal	Pass
3**	2954.400	40.74	-11.04	54.0	-13.26	AV	10.00	150	Horizontal	Pass
4	4543.200	48.84	-4.96	74.0	-25.16	Peak	334.00	150	Horizontal	Pass
4**	4543.200	39.59	-4.96	54.0	-14.41	AV	334.00	150	Horizontal	Pass
5	6128.000	53.10	-1.43	74.0	-20.90	Peak	121.00	150	Horizontal	Pass
5**	6128.000	42.91	-1.43	54.0	-11.09	AV	121.00	150	Horizontal	Pass
6	11642.550	51.34	-0.36	74.0	-22.66	Peak	150.00	150	Horizontal	Pass
6**	11642.550	42.55	-0.36	54.0	-11.45	AV	150.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1630.600	42.72	-17.94	74.0	-31.28	Peak	40.00	150	Vertical	Pass
1**	1630.600	32.89	-17.94	54.0	-21.11	AV	40.00	150	Vertical	Pass
2	2461.200	100.91	-13.90	74.0	26.91	Peak	182.00	150	Vertical	N/A
2**	2461.200	91.94	-13.90	54.0	37.94	AV	182.00	150	Vertical	N/A
3	2727.400	50.94	-10.78	74.0	-23.06	Peak	257.00	150	Vertical	Pass
3**	2727.400	40.50	-10.78	54.0	-13.50	AV	257.00	150	Vertical	Pass
4	4123.000	47.05	-5.76	74.0	-26.95	Peak	334.00	150	Vertical	Pass
4**	4123.000	38.30	-5.76	54.0	-15.70	AV	334.00	150	Vertical	Pass
5	6688.800	53.44	-2.01	74.0	-20.56	Peak	282.00	150	Vertical	Pass
5**	6688.800	44.22	-2.01	54.0	-9.78	AV	282.00	150	Vertical	Pass
6	12161.487	51.34	-0.89	74.0	-22.66	Peak	184.00	150	Vertical	Pass
6**	12161.487	42.63	-0.89	54.0	-11.37	AV	184.00	150	Vertical	Pass

Aux. Antenna
1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1436.800	42.47	-17.70	74.0	-31.53	Peak	23.00	150	Horizontal	Pass
1**	1436.800	32.99	-17.70	54.0	-21.01	AV	23.00	150	Horizontal	Pass
2	2413.500	104.67	-13.53	74.0	30.67	Peak	257.00	150	Horizontal	N/A
2**	2413.500	101.67	-13.53	54.0	47.67	AV	257.00	150	Horizontal	N/A
3	2920.900	50.40	-11.03	74.0	-23.60	Peak	227.00	150	Horizontal	Pass
3**	2920.900	40.47	-11.03	54.0	-13.53	AV	227.00	150	Horizontal	Pass
4	4849.200	49.83	-3.69	74.0	-24.17	Peak	160.00	150	Horizontal	Pass
4**	4849.200	40.65	-3.69	54.0	-13.35	AV	160.00	150	Horizontal	Pass
5	6987.400	54.22	-1.25	74.0	-19.78	Peak	273.00	150	Horizontal	Pass
5**	6987.400	43.33	-1.25	54.0	-10.67	AV	273.00	150	Horizontal	Pass
6	12325.075	51.96	-0.53	74.0	-22.04	Peak	134.00	150	Horizontal	Pass
6**	12325.075	41.86	-0.53	54.0	-12.14	AV	134.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1740.100	42.77	-17.58	74.0	-31.23	Peak	4.00	150	Vertical	Pass
1**	1740.100	33.49	-17.58	54.0	-20.51	AV	4.00	150	Vertical	Pass
2	2413.100	94.67	-13.52	74.0	20.67	Peak	120.00	150	Vertical	N/A
2**	2413.100	91.77	-13.52	54.0	37.77	AV	120.00	150	Vertical	N/A
3	2903.500	49.70	-10.95	74.0	-24.30	Peak	67.00	150	Vertical	Pass
3**	2903.500	40.45	-10.95	54.0	-13.55	AV	67.00	150	Vertical	Pass
4	4519.800	49.29	-4.30	74.0	-24.71	Peak	58.00	150	Vertical	Pass
4**	4519.800	39.34	-4.30	54.0	-14.66	AV	58.00	150	Vertical	Pass
5	6987.000	53.30	-1.26	74.0	-20.70	Peak	45.00	150	Vertical	Pass
5**	6987.000	43.98	-1.26	54.0	-10.02	AV	45.00	150	Vertical	Pass
6	12242.850	51.82	-0.26	74.0	-22.18	Peak	223.00	150	Vertical	Pass
6**	12242.850	43.04	-0.26	54.0	-10.96	AV	223.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1314.400	42.46	-17.78	74.0	-31.54	Peak	59.00	150	Horizontal	Pass
1**	1314.400	31.81	-17.78	54.0	-22.19	AV	59.00	150	Horizontal	Pass
2	2435.100	104.22	-13.54	74.0	30.22	Peak	257.00	150	Horizontal	N/A
2**	2435.100	101.30	-13.54	54.0	47.30	AV	257.00	150	Horizontal	N/A
3	2796.200	50.62	-11.37	74.0	-23.38	Peak	135.00	150	Horizontal	Pass
3**	2796.200	40.83	-11.37	54.0	-13.17	AV	135.00	150	Horizontal	Pass
4	4828.200	49.59	-4.14	74.0	-24.41	Peak	161.00	150	Horizontal	Pass
4**	4828.200	39.50	-4.14	54.0	-14.50	AV	161.00	150	Horizontal	Pass
5	8110.325	48.49	-3.44	74.0	-25.51	Peak	328.00	150	Horizontal	Pass
5**	8110.325	39.89	-3.44	54.0	-14.11	AV	328.00	150	Horizontal	Pass
6	12110.888	51.75	-0.83	74.0	-22.25	Peak	328.00	150	Horizontal	Pass
6**	12110.888	42.05	-0.83	54.0	-11.95	AV	328.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.100	41.77	-18.05	74.0	-32.23	Peak	360.00	150	Vertical	Pass
1**	1512.100	32.63	-18.05	54.0	-21.37	AV	360.00	150	Vertical	Pass
2	2435.600	96.15	-13.53	74.0	22.15	Peak	123.00	150	Vertical	N/A
2**	2435.600	93.20	-13.53	54.0	39.20	AV	123.00	150	Vertical	N/A
3	2798.000	49.85	-11.42	74.0	-24.15	Peak	123.00	150	Vertical	Pass
3**	2798.000	40.25	-11.42	54.0	-13.75	AV	123.00	150	Vertical	Pass
4	4831.000	49.62	-4.15	74.0	-24.38	Peak	285.00	150	Vertical	Pass
4**	4831.000	40.76	-4.15	54.0	-13.24	AV	285.00	150	Vertical	Pass
5	8034.713	48.56	-3.31	74.0	-25.44	Peak	360.00	150	Vertical	Pass
5**	8034.713	38.61	-3.31	54.0	-15.39	AV	360.00	150	Vertical	Pass
6	12240.550	51.39	-0.31	74.0	-22.61	Peak	134.00	150	Vertical	Pass
6**	12240.550	42.05	-0.31	54.0	-11.95	AV	134.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.200	41.73	-17.86	74.0	-32.27	Peak	12.00	150	Horizontal	Pass
1**	1483.200	32.31	-17.86	54.0	-21.69	AV	12.00	150	Horizontal	Pass
2	2460.500	104.12	-13.91	74.0	30.12	Peak	258.00	150	Horizontal	N/A
2**	2460.500	101.34	-13.91	54.0	47.34	AV	258.00	150	Horizontal	N/A
3	2792.900	49.50	-11.11	74.0	-24.50	Peak	332.00	150	Horizontal	Pass
3**	2792.900	40.18	-11.11	54.0	-13.82	AV	332.00	150	Horizontal	Pass
4	5009.200	51.09	-3.94	74.0	-22.91	Peak	155.00	150	Horizontal	Pass
4**	5009.200	41.04	-3.94	54.0	-12.96	AV	155.00	150	Horizontal	Pass
5	8113.200	48.80	-3.37	74.0	-25.20	Peak	44.00	150	Horizontal	Pass
5**	8113.200	40.38	-3.37	54.0	-13.62	AV	44.00	150	Horizontal	Pass
6	12267.288	51.46	0.06	74.0	-22.54	Peak	134.00	150	Horizontal	Pass
6**	12267.288	42.75	0.06	54.0	-11.25	AV	134.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1545.300	41.40	-17.95	74.0	-32.60	Peak	92.00	150	Vertical	Pass
1**	1545.300	31.83	-17.95	54.0	-22.17	AV	92.00	150	Vertical	Pass
2	2463.700	96.89	-13.83	74.0	22.89	Peak	115.00	150	Vertical	N/A
2**	2463.700	94.03	-13.83	54.0	40.03	AV	115.00	150	Vertical	N/A
3	2970.000	49.75	-11.06	74.0	-24.25	Peak	251.00	150	Vertical	Pass
3**	2970.000	40.05	-11.06	54.0	-13.95	AV	251.00	150	Vertical	Pass
4	4815.200	49.69	-3.98	74.0	-24.31	Peak	333.00	150	Vertical	Pass
4**	4815.200	40.49	-3.98	54.0	-13.51	AV	333.00	150	Vertical	Pass
5	8080.138	48.17	-3.56	74.0	-25.83	Peak	360.00	150	Vertical	Pass
5**	8080.138	38.79	-3.56	54.0	-15.21	AV	360.00	150	Vertical	Pass
6	12296.901	51.52	0.04	74.0	-22.48	Peak	240.00	150	Vertical	Pass
6**	12296.901	41.38	0.04	54.0	-12.62	AV	240.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1398.500	41.82	-17.76	74.0	-32.18	Peak	12.00	150	Horizontal	Pass
1**	1398.500	32.06	-17.76	54.0	-21.94	AV	12.00	150	Horizontal	Pass
2	2406.900	107.16	-13.46	74.0	33.16	Peak	251.00	150	Horizontal	N/A
2**	2406.900	99.08	-13.46	54.0	45.08	AV	251.00	150	Horizontal	N/A
3	2804.500	49.58	-11.55	74.0	-24.42	Peak	137.00	150	Horizontal	Pass
3**	2804.500	39.93	-11.55	54.0	-14.07	AV	137.00	150	Horizontal	Pass
4	5341.200	50.53	-3.60	74.0	-23.47	Peak	121.00	150	Horizontal	Pass
4**	5341.200	41.58	-3.60	54.0	-12.42	AV	121.00	150	Horizontal	Pass
5	8054.550	48.35	-3.01	74.0	-25.65	Peak	241.00	150	Horizontal	Pass
5**	8054.550	39.04	-3.01	54.0	-14.96	AV	241.00	150	Horizontal	Pass
6	11592.813	50.97	-0.09	74.0	-23.03	Peak	46.00	150	Horizontal	Pass
6**	11592.813	42.24	-0.09	54.0	-11.76	AV	46.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1532.400	42.53	-18.06	74.0	-31.47	Peak	76.00	150	Vertical	Pass
1**	1532.400	32.40	-18.06	54.0	-21.60	AV	76.00	150	Vertical	Pass
2	2415.100	98.32	-13.48	74.0	24.32	Peak	126.00	150	Vertical	N/A
2**	2415.100	91.59	-13.48	54.0	37.59	AV	126.00	150	Vertical	N/A
3	2728.900	49.56	-10.92	74.0	-24.44	Peak	331.00	150	Vertical	Pass
3**	2728.900	40.27	-10.92	54.0	-13.73	AV	331.00	150	Vertical	Pass
4	4992.400	50.50	-3.91	74.0	-23.50	Peak	360.00	150	Vertical	Pass
4**	4992.400	40.16	-3.91	54.0	-13.84	AV	360.00	150	Vertical	Pass
5	7945.875	49.37	-4.36	74.0	-24.63	Peak	329.00	150	Vertical	Pass
5**	7945.875	38.95	-4.36	54.0	-15.05	AV	329.00	150	Vertical	Pass
6	11655.487	50.63	-0.41	74.0	-23.37	Peak	114.00	150	Vertical	Pass
6**	11655.487	42.68	-0.41	54.0	-11.32	AV	114.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1513.000	41.13	-18.04	74.0	-32.87	Peak	360.00	150	Horizontal	Pass
1**	1513.000	32.06	-18.04	54.0	-21.94	AV	360.00	150	Horizontal	Pass
2	2435.000	106.96	-13.54	74.0	32.96	Peak	253.00	150	Horizontal	N/A
2**	2435.000	99.07	-13.54	54.0	45.07	AV	253.00	150	Horizontal	N/A
3	2710.200	49.59	-11.34	74.0	-24.41	Peak	183.00	150	Horizontal	Pass
3**	2710.200	40.19	-11.34	54.0	-13.81	AV	183.00	150	Horizontal	Pass
4	5087.200	50.33	-3.59	74.0	-23.67	Peak	222.00	150	Horizontal	Pass
4**	5087.200	41.51	-3.59	54.0	-12.49	AV	222.00	150	Horizontal	Pass
5	8082.150	48.84	-3.49	74.0	-25.16	Peak	27.00	150	Horizontal	Pass
5**	8082.150	38.60	-3.49	54.0	-15.40	AV	27.00	150	Horizontal	Pass
6	12267.288	51.69	0.06	74.0	-22.31	Peak	63.00	150	Horizontal	Pass
6**	12267.288	42.22	0.06	54.0	-11.78	AV	63.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1724.800	43.45	-17.70	74.0	-30.55	Peak	148.00	150	Vertical	Pass
1**	1724.800	38.64	-17.70	54.0	-15.36	AV	148.00	150	Vertical	Pass
2	2443.800	99.31	-13.29	74.0	25.31	Peak	0.00	150	Vertical	N/A
2**	2443.800	91.39	-13.29	54.0	37.39	AV	0.00	150	Vertical	N/A
3	2658.200	50.38	-12.41	74.0	-23.62	Peak	64.00	150	Vertical	Pass
3**	2658.200	39.81	-12.41	54.0	-14.19	AV	64.00	150	Vertical	Pass
4	5072.400	50.18	-3.53	74.0	-23.82	Peak	13.00	150	Vertical	Pass
4**	5072.400	41.59	-3.53	54.0	-12.41	AV	13.00	150	Vertical	Pass
5	7423.200	48.35	-4.08	74.0	-25.65	Peak	72.00	150	Vertical	Pass
5**	7423.200	40.02	-4.08	54.0	-13.98	AV	72.00	150	Vertical	Pass
6	12100.537	51.11	-1.02	74.0	-22.89	Peak	0.00	150	Vertical	Pass
6**	12100.537	42.47	-1.02	54.0	-11.53	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1560.400	41.67	-17.86	74.0	-32.33	Peak	274.00	150	Horizontal	Pass
1**	1560.400	32.09	-17.86	54.0	-21.91	AV	274.00	150	Horizontal	Pass
2	2458.500	106.47	-13.91	74.0	32.47	Peak	203.00	150	Horizontal	N/A
2**	2458.500	98.97	-13.91	54.0	44.97	AV	203.00	150	Horizontal	N/A
3	2937.600	49.67	-11.32	74.0	-24.33	Peak	151.00	150	Horizontal	Pass
3**	2937.600	39.59	-11.32	54.0	-14.41	AV	151.00	150	Horizontal	Pass
4	4543.800	49.56	-4.97	74.0	-24.44	Peak	150.00	150	Horizontal	Pass
4**	4543.800	39.70	-4.97	54.0	-14.30	AV	150.00	150	Horizontal	Pass
5	7449.650	48.66	-4.40	74.0	-25.34	Peak	16.00	150	Horizontal	Pass
5**	7449.650	39.47	-4.40	54.0	-14.53	AV	16.00	150	Horizontal	Pass
6	12233.075	51.54	-0.31	74.0	-22.46	Peak	70.00	150	Horizontal	Pass
6**	12233.075	41.39	-0.31	54.0	-12.61	AV	70.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1725.100	42.23	-17.70	74.0	-31.77	Peak	242.00	150	Vertical	Pass
1**	1725.100	35.78	-17.70	54.0	-18.22	AV	242.00	150	Vertical	Pass
2	2458.700	99.30	-13.93	74.0	25.30	Peak	119.00	150	Vertical	N/A
2**	2458.700	91.75	-13.93	54.0	37.75	AV	119.00	150	Vertical	N/A
3	2967.100	49.94	-11.01	74.0	-24.06	Peak	109.00	150	Vertical	Pass
3**	2967.100	40.21	-11.01	54.0	-13.79	AV	109.00	150	Vertical	Pass
4	5331.400	51.91	-3.71	74.0	-22.09	Peak	225.00	150	Vertical	Pass
4**	5331.400	41.05	-3.71	54.0	-12.95	AV	225.00	150	Vertical	Pass
5	8061.450	48.12	-3.39	74.0	-25.88	Peak	310.00	150	Vertical	Pass
5**	8061.450	38.95	-3.39	54.0	-15.05	AV	310.00	150	Vertical	Pass
6	12187.076	51.37	-0.90	74.0	-22.63	Peak	328.00	150	Vertical	Pass
6**	12187.076	42.81	-0.90	54.0	-11.19	AV	328.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1462.200	42.25	-17.80	74.0	-31.75	Peak	146.00	150	Horizontal	Pass
1**	1462.200	32.08	-17.80	54.0	-21.92	AV	146.00	150	Horizontal	Pass
2	2420.000	106.71	-13.64	74.0	32.71	Peak	251.00	150	Horizontal	N/A
2**	2420.000	97.87	-13.64	54.0	43.87	AV	251.00	150	Horizontal	N/A
3	2970.700	49.61	-11.12	74.0	-24.39	Peak	40.00	150	Horizontal	Pass
3**	2970.700	39.94	-11.12	54.0	-14.06	AV	40.00	150	Horizontal	Pass
4	5064.600	50.48	-3.39	74.0	-23.52	Peak	269.00	150	Horizontal	Pass
4**	5064.600	41.36	-3.39	54.0	-12.64	AV	269.00	150	Horizontal	Pass
5	7945.300	48.44	-4.34	74.0	-25.56	Peak	360.00	150	Horizontal	Pass
5**	7945.300	39.81	-4.34	54.0	-14.19	AV	360.00	150	Horizontal	Pass
6	12005.375	51.14	-1.28	74.0	-22.86	Peak	95.00	150	Horizontal	Pass
6**	12005.375	41.88	-1.28	54.0	-12.12	AV	95.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1723.200	41.78	-17.73	74.0	-32.22	Peak	170.00	150	Vertical	Pass
1**	1723.200	32.49	-17.73	54.0	-21.51	AV	170.00	150	Vertical	Pass
2	2410.700	97.43	-13.45	74.0	23.43	Peak	5.00	150	Vertical	N/A
2**	2410.700	90.20	-13.45	54.0	36.20	AV	5.00	150	Vertical	N/A
3	2696.400	50.19	-11.46	74.0	-23.81	Peak	282.00	150	Vertical	Pass
3**	2696.400	40.35	-11.46	54.0	-13.65	AV	282.00	150	Vertical	Pass
4	5069.400	51.10	-3.48	74.0	-22.90	Peak	134.00	150	Vertical	Pass
4**	5069.400	41.55	-3.48	54.0	-12.45	AV	134.00	150	Vertical	Pass
5	7949.613	48.80	-4.12	74.0	-25.20	Peak	277.00	150	Vertical	Pass
5**	7949.613	39.59	-4.12	54.0	-14.41	AV	277.00	150	Vertical	Pass
6	12160.912	51.14	-0.89	74.0	-22.86	Peak	24.00	150	Vertical	Pass
6**	12160.912	41.45	-0.89	54.0	-12.55	AV	24.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1647.000	42.15	-18.03	74.0	-31.85	Peak	145.00	150	Horizontal	Pass
1**	1647.000	32.15	-18.03	54.0	-21.85	AV	145.00	150	Horizontal	Pass
2	2433.100	106.52	-13.51	74.0	32.52	Peak	213.00	150	Horizontal	N/A
2**	2433.100	98.74	-13.51	54.0	44.74	AV	213.00	150	Horizontal	N/A
3	2807.200	49.97	-11.54	74.0	-24.03	Peak	43.00	150	Horizontal	Pass
3**	2807.200	40.19	-11.54	54.0	-13.81	AV	43.00	150	Horizontal	Pass
4	5064.200	50.53	-3.36	74.0	-23.47	Peak	192.00	150	Horizontal	Pass
4**	5064.200	41.76	-3.36	54.0	-12.24	AV	192.00	150	Horizontal	Pass
5	8103.425	48.95	-3.47	74.0	-25.05	Peak	146.00	150	Horizontal	Pass
5**	8103.425	38.68	-3.47	54.0	-15.32	AV	146.00	150	Horizontal	Pass
6	12742.525	51.99	-1.16	74.0	-22.01	Peak	0.00	150	Horizontal	Pass
6**	12742.525	41.11	-1.16	54.0	-12.89	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.100	42.43	-17.98	74.0	-31.57	Peak	297.00	150	Vertical	Pass
1**	1584.100	32.82	-17.98	54.0	-21.18	AV	297.00	150	Vertical	Pass
2	2444.000	98.28	-13.28	74.0	24.28	Peak	352.00	150	Vertical	N/A
2**	2444.000	90.59	-13.28	54.0	36.59	AV	352.00	150	Vertical	N/A
3	2729.700	49.39	-11.04	74.0	-24.61	Peak	297.00	150	Vertical	Pass
3**	2729.700	39.91	-11.04	54.0	-14.09	AV	297.00	150	Vertical	Pass
4	5052.800	51.16	-3.64	74.0	-22.84	Peak	154.00	150	Vertical	Pass
4**	5052.800	41.05	-3.64	54.0	-12.95	AV	154.00	150	Vertical	Pass
5	7431.825	48.81	-4.40	74.0	-25.19	Peak	144.00	150	Vertical	Pass
5**	7431.825	39.36	-4.40	54.0	-14.64	AV	144.00	150	Vertical	Pass
6	12274.187	52.08	0.07	74.0	-21.92	Peak	235.00	150	Vertical	Pass
6**	12274.187	41.65	0.07	54.0	-12.35	AV	235.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	
1	1584.600	41.92	-17.98	74.0	-32.08	Peak	360.00	150	Horizontal	Pass
1**	1584.600	32.52	-17.98	54.0	-21.48	AV	360.00	150	Horizontal	Pass
2	2464.100	106.36	-13.80	74.0	32.36	Peak	206.00	150	Horizontal	N/A
2**	2464.100	98.08	-13.80	54.0	44.08	AV	206.00	150	Horizontal	N/A
3	2747.100	50.01	-11.80	74.0	-23.99	Peak	0.00	150	Horizontal	Pass
3**	2747.100	40.11	-11.80	54.0	-13.89	AV	0.00	150	Horizontal	Pass
4	5002.800	50.49	-3.92	74.0	-23.51	Peak	26.00	150	Horizontal	Pass
4**	5002.800	40.65	-3.92	54.0	-13.35	AV	26.00	150	Horizontal	Pass
5	8083.300	49.43	-3.43	74.0	-24.57	Peak	21.00	150	Horizontal	Pass
5**	8083.300	39.23	-3.43	54.0	-14.77	AV	21.00	150	Horizontal	Pass
6	12103.412	51.20	-0.97	74.0	-22.80	Peak	21.00	150	Horizontal	Pass
6**	12103.412	41.75	-0.97	54.0	-12.25	AV	21.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1445.600	42.12	-17.83	74.0	-31.88	Peak	289.00	150	Vertical	Pass
1**	1445.600	32.25	-17.83	54.0	-21.75	AV	289.00	150	Vertical	Pass
2	2462.800	98.79	-13.88	74.0	24.79	Peak	110.00	150	Vertical	N/A
2**	2462.800	91.17	-13.88	54.0	37.17	AV	110.00	150	Vertical	N/A
3	2721.000	51.18	-10.73	74.0	-22.82	Peak	33.00	150	Vertical	Pass
3**	2721.000	40.31	-10.73	54.0	-13.69	AV	33.00	150	Vertical	Pass
4	5322.600	50.99	-3.87	74.0	-23.01	Peak	82.00	150	Vertical	Pass
4**	5322.600	41.56	-3.87	54.0	-12.44	AV	82.00	150	Vertical	Pass
5	7417.450	48.94	-4.10	74.0	-25.06	Peak	131.00	150	Vertical	Pass
5**	7417.450	38.99	-4.10	54.0	-15.01	AV	131.00	150	Vertical	Pass
6	12270.451	51.80	0.06	74.0	-22.20	Peak	0.00	150	Vertical	Pass
6**	12270.451	42.21	0.06	54.0	-11.79	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1601.600	41.98	-17.96	74.0	-32.02	Peak	153.00	150	Horizontal	Pass
1**	1601.600	32.48	-17.96	54.0	-21.52	AV	153.00	150	Horizontal	Pass
2	2412.600	103.77	-13.51	74.0	29.77	Peak	249.00	150	Horizontal	N/A
2**	2412.600	95.12	-13.51	54.0	41.12	AV	249.00	150	Horizontal	N/A
3	2874.200	50.44	-11.24	74.0	-23.56	Peak	218.00	150	Horizontal	Pass
3**	2874.200	39.48	-11.24	54.0	-14.52	AV	218.00	150	Horizontal	Pass
4	5041.000	51.59	-3.97	74.0	-22.41	Peak	134.00	150	Horizontal	Pass
4**	5041.000	41.64	-3.97	54.0	-12.36	AV	134.00	150	Horizontal	Pass
5	7955.075	48.48	-4.25	74.0	-25.52	Peak	126.00	150	Horizontal	Pass
5**	7955.075	39.19	-4.25	54.0	-14.81	AV	126.00	150	Horizontal	Pass
6	12341.463	51.15	-1.01	74.0	-22.85	Peak	17.00	150	Horizontal	Pass
6**	12341.463	41.18	-1.01	54.0	-12.82	AV	17.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.200	45.94	-17.91	74.0	-28.06	Peak	19.00	150	Vertical	Pass
1**	1496.200	38.62	-17.91	54.0	-15.38	AV	19.00	150	Vertical	Pass
2	2410.100	95.13	-13.42	74.0	21.13	Peak	3.00	150	Vertical	N/A
2**	2410.100	87.48	-13.42	54.0	33.48	AV	3.00	150	Vertical	N/A
3	3999.000	49.08	-6.22	74.0	-24.92	Peak	270.00	150	Vertical	Pass
3**	3999.000	39.52	-6.22	54.0	-14.48	AV	270.00	150	Vertical	Pass
4	4499.400	51.81	-4.52	74.0	-22.19	Peak	286.00	150	Vertical	Pass
4**	4499.400	42.46	-4.52	54.0	-11.54	AV	286.00	150	Vertical	Pass
5	7949.900	49.13	-4.14	74.0	-24.87	Peak	29.00	150	Vertical	Pass
5**	7949.900	39.37	-4.14	54.0	-14.63	AV	29.00	150	Vertical	Pass
6	12007.963	51.98	-1.26	74.0	-22.02	Peak	360.00	150	Vertical	Pass
6**	12007.963	41.93	-1.26	54.0	-12.07	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.000	42.09	-17.82	74.0	-31.91	Peak	21.00	150	Horizontal	Pass
1**	1441.000	31.95	-17.82	54.0	-22.05	AV	21.00	150	Horizontal	Pass
2	2425.800	103.24	-13.70	74.0	29.24	Peak	263.00	150	Horizontal	N/A
2**	2425.800	94.41	-13.70	54.0	40.41	AV	263.00	150	Horizontal	N/A
3	2911.300	49.75	-10.81	74.0	-24.25	Peak	29.00	150	Horizontal	Pass
3**	2911.300	40.55	-10.81	54.0	-13.45	AV	29.00	150	Horizontal	Pass
4	5076.000	50.15	-3.58	74.0	-23.85	Peak	48.00	150	Horizontal	Pass
4**	5076.000	40.81	-3.58	54.0	-13.19	AV	48.00	150	Horizontal	Pass
5	8032.125	48.98	-3.34	74.0	-25.02	Peak	220.00	150	Horizontal	Pass
5**	8032.125	39.13	-3.34	54.0	-14.87	AV	220.00	150	Horizontal	Pass
6	12163.500	51.04	-0.90	74.0	-22.96	Peak	310.00	150	Horizontal	Pass
6**	12163.500	41.61	-0.90	54.0	-12.39	AV	310.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.800	41.98	-18.00	74.0	-32.02	Peak	148.00	150	Vertical	Pass
1**	1514.800	32.23	-18.00	54.0	-21.77	AV	148.00	150	Vertical	Pass
2	2445.600	96.11	-13.41	74.0	22.11	Peak	360.00	150	Vertical	N/A
2**	2445.600	88.46	-13.41	54.0	34.46	AV	360.00	150	Vertical	N/A
3	2899.100	50.07	-11.01	74.0	-23.93	Peak	30.00	150	Vertical	Pass
3**	2899.100	40.68	-11.01	54.0	-13.32	AV	30.00	150	Vertical	Pass
4	3988.800	48.93	-6.42	74.0	-25.07	Peak	275.00	150	Vertical	Pass
4**	3988.800	39.91	-6.42	54.0	-14.09	AV	275.00	150	Vertical	Pass
5	8111.475	48.51	-3.34	74.0	-25.49	Peak	276.00	150	Vertical	Pass
5**	8111.475	38.80	-3.34	54.0	-15.20	AV	276.00	150	Vertical	Pass
6	12236.526	52.21	-0.31	74.0	-21.79	Peak	60.00	150	Vertical	Pass
6**	12236.526	43.20	-0.31	54.0	-10.80	AV	60.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1589.400	41.96	-17.91	74.0	-32.04	Peak	166.00	150	Horizontal	Pass
1**	1589.400	32.26	-17.91	54.0	-21.74	AV	166.00	150	Horizontal	Pass
2	2454.200	103.23	-13.75	74.0	29.23	Peak	261.00	150	Horizontal	N/A
2**	2454.200	95.52	-13.75	54.0	41.52	AV	261.00	150	Horizontal	N/A
3	2867.100	49.68	-11.36	74.0	-24.32	Peak	51.00	150	Horizontal	Pass
3**	2867.100	39.26	-11.36	54.0	-14.74	AV	51.00	150	Horizontal	Pass
4	5064.200	50.81	-3.36	74.0	-23.19	Peak	51.00	150	Horizontal	Pass
4**	5064.200	41.00	-3.36	54.0	-13.00	AV	51.00	150	Horizontal	Pass
5	8108.600	48.43	-3.54	74.0	-25.57	Peak	95.00	150	Horizontal	Pass
5**	8108.600	38.90	-3.54	54.0	-15.10	AV	95.00	150	Horizontal	Pass
6	12268.438	51.55	0.06	74.0	-22.45	Peak	220.00	150	Horizontal	Pass
6**	12268.438	42.40	0.06	54.0	-11.60	AV	220.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1598.500	42.36	-17.93	74.0	-31.64	Peak	0.00	150	Vertical	Pass
1**	1598.500	32.38	-17.93	54.0	-21.62	AV	0.00	150	Vertical	Pass
2	2459.600	95.90	-13.93	74.0	21.90	Peak	115.00	150	Vertical	N/A
2**	2459.600	87.44	-13.93	54.0	33.44	AV	115.00	150	Vertical	N/A
3	2922.600	49.95	-11.11	74.0	-24.05	Peak	304.00	150	Vertical	Pass
3**	2922.600	40.17	-11.11	54.0	-13.83	AV	304.00	150	Vertical	Pass
4	5323.800	51.39	-3.84	74.0	-22.61	Peak	242.00	150	Vertical	Pass
4**	5323.800	43.92	-3.84	54.0	-10.08	AV	242.00	150	Vertical	Pass
5	7950.188	48.52	-4.16	74.0	-25.48	Peak	26.00	150	Vertical	Pass
5**	7950.188	39.79	-4.16	54.0	-14.21	AV	26.00	150	Vertical	Pass
6	12246.300	51.55	-0.18	74.0	-22.45	Peak	0.00	150	Vertical	Pass
6**	12246.300	43.54	-0.18	54.0	-10.46	AV	0.00	150	Vertical	Pass

South Star

Main Antenna

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1680.000	42.27	-17.86	74.0	-31.73	Peak	155.00	150	Horizontal	Pass
1**	1680.000	32.43	-17.86	54.0	-21.57	AV	155.00	150	Horizontal	Pass
2	2413.200	104.23	-13.52	74.0	30.23	Peak	230.00	150	Horizontal	N/A
2**	2413.200	101.22	-13.52	54.0	47.22	AV	230.00	150	Horizontal	N/A
3	2998.000	50.07	-10.81	74.0	-23.93	Peak	4.00	150	Horizontal	Pass
3**	2998.000	40.62	-10.81	54.0	-13.38	AV	4.00	150	Horizontal	Pass
4	4810.200	49.33	-3.76	74.0	-24.67	Peak	46.00	150	Horizontal	Pass
4**	4810.200	40.69	-3.76	54.0	-13.31	AV	46.00	150	Horizontal	Pass
5	6783.000	52.93	-1.60	74.0	-21.07	Peak	274.00	150	Horizontal	Pass
5**	6783.000	43.98	-1.60	54.0	-10.02	AV	274.00	150	Horizontal	Pass
6	12206.338	51.31	-0.60	74.0	-22.69	Peak	186.00	150	Horizontal	Pass
6**	12206.338	41.65	-0.60	54.0	-12.35	AV	186.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1606.500	42.53	-18.07	74.0	-31.47	Peak	90.00	150	Vertical	Pass
1**	1606.500	32.78	-18.07	54.0	-21.22	AV	90.00	150	Vertical	Pass
2	2410.600	100.81	-13.44	74.0	26.81	Peak	193.00	150	Vertical	N/A
2**	2410.600	97.95	-13.44	54.0	43.95	AV	193.00	150	Vertical	N/A
3	2778.000	50.45	-11.45	74.0	-23.55	Peak	68.00	150	Vertical	Pass
3**	2778.000	40.37	-11.45	54.0	-13.63	AV	68.00	150	Vertical	Pass
4	4170.400	47.30	-5.43	74.0	-26.70	Peak	177.00	150	Vertical	Pass
4**	4170.400	38.54	-5.43	54.0	-15.46	AV	177.00	150	Vertical	Pass
5	6118.200	53.65	-1.31	74.0	-20.35	Peak	314.00	150	Vertical	Pass
5**	6118.200	42.38	-1.31	54.0	-11.62	AV	314.00	150	Vertical	Pass
6	11619.262	51.31	-0.16	74.0	-22.69	Peak	327.00	150	Vertical	Pass
6**	11619.262	43.10	-0.16	54.0	-10.90	AV	327.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1667.400	42.25	-17.81	74.0	-31.75	Peak	263.00	150	Horizontal	Pass
1**	1667.400	32.66	-17.81	54.0	-21.34	AV	263.00	150	Horizontal	Pass
2	2435.100	104.40	-13.54	74.0	30.40	Peak	240.00	150	Horizontal	N/A
2**	2435.100	101.59	-13.54	54.0	47.59	AV	240.00	150	Horizontal	N/A
3	2977.000	49.70	-11.34	74.0	-24.30	Peak	156.00	150	Horizontal	Pass
3**	2977.000	40.83	-11.34	54.0	-13.17	AV	156.00	150	Horizontal	Pass
4	4874.200	50.18	-4.02	74.0	-23.82	Peak	319.00	150	Horizontal	Pass
4**	4874.200	44.60	-4.02	54.0	-9.40	AV	319.00	150	Horizontal	Pass
5	6759.800	53.31	-1.55	74.0	-20.69	Peak	55.00	150	Horizontal	Pass
5**	6759.800	43.93	-1.55	54.0	-10.07	AV	55.00	150	Horizontal	Pass
6	12247.737	51.92	-0.14	74.0	-22.08	Peak	172.00	150	Horizontal	Pass
6**	12247.737	41.91	-0.14	54.0	-12.09	AV	172.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1673.700	42.47	-17.88	74.0	-31.53	Peak	130.00	150	Vertical	Pass
1**	1673.700	32.78	-17.88	54.0	-21.22	AV	130.00	150	Vertical	Pass
2	2435.700	101.73	-13.52	74.0	27.73	Peak	177.00	150	Vertical	N/A
2**	2435.700	98.78	-13.52	54.0	44.78	AV	177.00	150	Vertical	N/A
3	2794.500	50.18	-11.19	74.0	-23.82	Peak	185.00	150	Vertical	Pass
3**	2794.500	40.80	-11.19	54.0	-13.20	AV	185.00	150	Vertical	Pass
4	4525.600	49.03	-4.16	74.0	-24.97	Peak	57.00	150	Vertical	Pass
4**	4525.600	40.18	-4.16	54.0	-13.82	AV	57.00	150	Vertical	Pass
5	6970.000	53.25	-1.31	74.0	-20.75	Peak	9.00	150	Vertical	Pass
5**	6970.000	42.71	-1.31	54.0	-11.29	AV	9.00	150	Vertical	Pass
6	11589.937	51.72	-0.06	74.0	-22.28	Peak	293.00	150	Vertical	Pass
6**	11589.937	42.62	-0.06	54.0	-11.38	AV	293.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1669.300	41.99	-17.80	74.0	-32.01	Peak	67.00	150	Horizontal	Pass
1**	1669.300	33.12	-17.80	54.0	-20.88	AV	67.00	150	Horizontal	Pass
2	2463.400	104.58	-13.85	74.0	30.58	Peak	235.00	150	Horizontal	N/A
2**	2463.400	101.52	-13.85	54.0	47.52	AV	235.00	150	Horizontal	N/A
3	2991.100	49.84	-11.05	74.0	-24.16	Peak	91.00	150	Horizontal	Pass
3**	2991.100	40.42	-11.05	54.0	-13.58	AV	91.00	150	Horizontal	Pass
4	4923.800	50.28	-4.13	74.0	-23.72	Peak	287.00	150	Horizontal	Pass
4**	4923.800	44.07	-4.13	54.0	-9.93	AV	287.00	150	Horizontal	Pass
5	6832.000	52.88	-1.56	74.0	-21.12	Peak	360.00	150	Horizontal	Pass
5**	6832.000	43.21	-1.56	54.0	-10.79	AV	360.00	150	Horizontal	Pass
6	12041.600	51.53	-1.50	74.0	-22.47	Peak	222.00	150	Horizontal	Pass
6**	12041.600	41.68	-1.50	54.0	-12.32	AV	222.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1753.300	42.80	-17.51	74.0	-31.20	Peak	296.00	150	Vertical	Pass
1**	1753.300	32.76	-17.51	54.0	-21.24	AV	296.00	150	Vertical	Pass
2	2463.700	101.46	-13.83	74.0	27.46	Peak	182.00	150	Vertical	N/A
2**	2463.700	98.57	-13.83	54.0	44.57	AV	182.00	150	Vertical	N/A
3	2716.900	49.96	-10.93	74.0	-24.04	Peak	280.00	150	Vertical	Pass
3**	2716.900	42.09	-10.93	54.0	-11.91	AV	280.00	150	Vertical	Pass
4	4591.800	49.16	-5.12	74.0	-24.84	Peak	200.00	150	Vertical	Pass
4**	4591.800	39.21	-5.12	54.0	-14.79	AV	200.00	150	Vertical	Pass
5	6899.400	52.98	-2.14	74.0	-21.02	Peak	103.00	150	Vertical	Pass
5**	6899.400	43.34	-2.14	54.0	-10.66	AV	103.00	150	Vertical	Pass
6	12387.463	52.12	-1.64	74.0	-21.88	Peak	244.00	150	Vertical	Pass
6**	12387.463	41.16	-1.64	54.0	-12.84	AV	244.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.100	41.92	-17.75	74.0	-32.08	Peak	88.00	150	Horizontal	Pass
1**	1409.100	32.36	-17.75	54.0	-21.64	AV	88.00	150	Horizontal	Pass
2	2416.800	107.40	-13.43	74.0	33.40	Peak	232.00	150	Horizontal	N/A
2**	2416.800	99.38	-13.43	54.0	45.38	AV	232.00	150	Horizontal	N/A
3	2787.700	49.71	-11.10	74.0	-24.29	Peak	150.00	150	Horizontal	Pass
3**	2787.700	40.60	-11.10	54.0	-13.40	AV	150.00	150	Horizontal	Pass
4	4476.400	48.93	-4.99	74.0	-25.07	Peak	228.00	150	Horizontal	Pass
4**	4476.400	40.25	-4.99	54.0	-13.75	AV	228.00	150	Horizontal	Pass
5	6651.600	52.72	-1.20	74.0	-21.28	Peak	253.00	150	Horizontal	Pass
5**	6651.600	42.87	-1.20	54.0	-11.13	AV	253.00	150	Horizontal	Pass
6	12190.812	51.18	-0.85	74.0	-22.82	Peak	346.00	150	Horizontal	Pass
6**	12190.812	41.68	-0.85	54.0	-12.32	AV	346.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1669.900	42.77	-17.80	74.0	-31.23	Peak	217.00	150	Vertical	Pass
1**	1669.900	32.13	-17.80	54.0	-21.87	AV	217.00	150	Vertical	Pass
2	2404.700	103.10	-13.34	74.0	29.10	Peak	193.00	150	Vertical	N/A
2**	2404.700	95.47	-13.34	54.0	41.47	AV	193.00	150	Vertical	N/A
3	2716.600	50.36	-10.98	74.0	-23.64	Peak	83.00	150	Vertical	Pass
3**	2716.600	40.38	-10.98	54.0	-13.62	AV	83.00	150	Vertical	Pass
4	4012.400	47.51	-6.61	74.0	-26.49	Peak	131.00	150	Vertical	Pass
4**	4012.400	37.39	-6.61	54.0	-16.61	AV	131.00	150	Vertical	Pass
5	6824.800	52.95	-1.41	74.0	-21.05	Peak	353.00	150	Vertical	Pass
5**	6824.800	44.45	-1.41	54.0	-9.55	AV	353.00	150	Vertical	Pass
6	12150.563	51.55	-0.82	74.0	-22.45	Peak	360.00	150	Vertical	Pass
6**	12150.563	41.19	-0.82	54.0	-12.81	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1680.900	42.69	-17.83	74.0	-31.31	Peak	150.00	150	Horizontal	Pass
1**	1680.900	33.01	-17.83	54.0	-20.99	AV	150.00	150	Horizontal	Pass
2	2434.400	107.36	-13.53	74.0	33.36	Peak	239.00	150	Horizontal	N/A
2**	2434.400	99.25	-13.53	54.0	45.25	AV	239.00	150	Horizontal	N/A
3	2879.600	49.81	-11.18	74.0	-24.19	Peak	126.00	150	Horizontal	Pass
3**	2879.600	39.62	-11.18	54.0	-14.38	AV	126.00	150	Horizontal	Pass
4	4462.000	49.46	-4.80	74.0	-24.54	Peak	46.00	150	Horizontal	Pass
4**	4462.000	39.03	-4.80	54.0	-14.97	AV	46.00	150	Horizontal	Pass
5	6125.600	53.07	-1.43	74.0	-20.93	Peak	298.00	150	Horizontal	Pass
5**	6125.600	42.88	-1.43	54.0	-11.12	AV	298.00	150	Horizontal	Pass
6	12332.838	51.47	-0.76	74.0	-22.53	Peak	258.00	150	Horizontal	Pass
6**	12332.838	42.08	-0.76	54.0	-11.92	AV	258.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1739.100	42.23	-17.59	74.0	-31.77	Peak	44.00	150	Vertical	Pass
1**	1739.100	33.56	-17.59	54.0	-20.44	AV	44.00	150	Vertical	Pass
2	2431.700	103.95	-13.54	74.0	29.95	Peak	184.00	150	Vertical	N/A
2**	2431.700	96.19	-13.54	54.0	42.19	AV	184.00	150	Vertical	N/A
3	2928.700	49.94	-11.11	74.0	-24.06	Peak	52.00	150	Vertical	Pass
3**	2928.700	40.34	-11.11	54.0	-13.66	AV	52.00	150	Vertical	Pass
4	4009.200	47.76	-6.51	74.0	-26.24	Peak	303.00	150	Vertical	Pass
4**	4009.200	37.25	-6.51	54.0	-16.75	AV	303.00	150	Vertical	Pass
5	6925.600	53.88	-1.59	74.0	-20.12	Peak	292.00	150	Vertical	Pass
5**	6925.600	43.05	-1.59	54.0	-10.95	AV	292.00	150	Vertical	Pass
6	12267.575	52.07	0.06	74.0	-21.93	Peak	101.00	150	Vertical	Pass
6**	12267.575	42.89	0.06	54.0	-11.11	AV	101.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1401.100	42.13	-17.74	74.0	-31.87	Peak	197.00	150	Horizontal	Pass
1**	1401.100	33.08	-17.74	54.0	-20.92	AV	197.00	150	Horizontal	Pass
2	2459.600	107.26	-13.93	74.0	33.26	Peak	237.00	150	Horizontal	N/A
2**	2459.600	99.11	-13.93	54.0	45.11	AV	237.00	150	Horizontal	N/A
3	2757.600	50.01	-11.44	74.0	-23.99	Peak	78.00	150	Horizontal	Pass
3**	2757.600	40.07	-11.44	54.0	-13.93	AV	78.00	150	Horizontal	Pass
4	4500.000	49.33	-4.53	74.0	-24.67	Peak	348.00	150	Horizontal	Pass
4**	4500.000	40.05	-4.53	54.0	-13.95	AV	348.00	150	Horizontal	Pass
5	6994.000	52.57	-1.14	74.0	-21.43	Peak	145.00	150	Horizontal	Pass
5**	6994.000	43.87	-1.14	54.0	-10.13	AV	145.00	150	Horizontal	Pass
6	12268.724	51.65	0.06	74.0	-22.35	Peak	0.00	150	Horizontal	Pass
6**	12268.724	42.68	0.06	54.0	-11.32	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1557.700	42.54	-17.97	74.0	-31.46	Peak	81.00	150	Vertical	Pass
1**	1557.700	32.32	-17.97	54.0	-21.68	AV	81.00	150	Vertical	Pass
2	2460.700	104.12	-13.91	74.0	30.12	Peak	181.00	150	Vertical	N/A
2**	2460.700	95.77	-13.91	54.0	41.77	AV	181.00	150	Vertical	N/A
3	2866.200	49.64	-11.36	74.0	-24.36	Peak	162.00	150	Vertical	Pass
3**	2866.200	39.81	-11.36	54.0	-14.19	AV	162.00	150	Vertical	Pass
4	3977.600	47.21	-6.57	74.0	-26.79	Peak	0.00	150	Vertical	Pass
4**	3977.600	37.73	-6.57	54.0	-16.27	AV	0.00	150	Vertical	Pass
5	6131.400	52.68	-1.68	74.0	-21.32	Peak	213.00	150	Vertical	Pass
5**	6131.400	42.98	-1.68	54.0	-11.02	AV	213.00	150	Vertical	Pass
6	12266.713	52.18	0.05	74.0	-21.82	Peak	256.00	150	Vertical	Pass
6**	12266.713	42.03	0.05	54.0	-11.97	AV	256.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1401.400	42.18	-17.74	74.0	-31.82	Peak	0.00	150	Horizontal	Pass
1**	1401.400	33.30	-17.74	54.0	-20.70	AV	0.00	150	Horizontal	Pass
2	2404.700	106.47	-13.34	74.0	32.47	Peak	245.00	150	Horizontal	N/A
2**	2404.700	98.96	-13.34	54.0	44.96	AV	245.00	150	Horizontal	N/A
3	2771.300	50.03	-11.49	74.0	-23.97	Peak	201.00	150	Horizontal	Pass
3**	2771.300	39.84	-11.49	54.0	-14.16	AV	201.00	150	Horizontal	Pass
4	4486.000	49.23	-5.09	74.0	-24.77	Peak	339.00	150	Horizontal	Pass
4**	4486.000	39.65	-5.09	54.0	-14.35	AV	339.00	150	Horizontal	Pass
5	6857.800	52.56	-1.52	74.0	-21.44	Peak	314.00	150	Horizontal	Pass
5**	6857.800	42.69	-1.52	54.0	-11.31	AV	314.00	150	Horizontal	Pass
6	12239.400	51.67	-0.32	74.0	-22.33	Peak	293.00	150	Horizontal	Pass
6**	12239.400	42.80	-0.32	54.0	-11.20	AV	293.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.700	41.57	-17.95	74.0	-32.43	Peak	360.00	150	Vertical	Pass
1**	1497.700	31.98	-17.95	54.0	-22.02	AV	360.00	150	Vertical	Pass
2	2415.800	102.81	-13.44	74.0	28.81	Peak	188.00	150	Vertical	N/A
2**	2415.800	94.72	-13.44	54.0	40.72	AV	188.00	150	Vertical	N/A
3	2753.300	49.95	-11.59	74.0	-24.05	Peak	360.00	150	Vertical	Pass
3**	2753.300	39.71	-11.59	54.0	-14.29	AV	360.00	150	Vertical	Pass
4	4398.000	48.38	-5.92	74.0	-25.62	Peak	340.00	150	Vertical	Pass
4**	4398.000	38.52	-5.92	54.0	-15.48	AV	340.00	150	Vertical	Pass
5	6129.200	52.84	-1.51	74.0	-21.16	Peak	8.00	150	Vertical	Pass
5**	6129.200	43.35	-1.51	54.0	-10.65	AV	8.00	150	Vertical	Pass
6	12120.088	51.47	-0.66	74.0	-22.53	Peak	202.00	150	Vertical	Pass
6**	12120.088	41.01	-0.66	54.0	-12.99	AV	202.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.600	42.61	-17.86	74.0	-31.39	Peak	95.00	150	Horizontal	Pass
1**	1439.600	31.71	-17.86	54.0	-22.29	AV	95.00	150	Horizontal	Pass
2	2442.000	106.67	-13.43	74.0	32.67	Peak	313.00	150	Horizontal	N/A
2**	2442.000	100.95	-13.43	54.0	46.95	AV	313.00	150	Horizontal	N/A
3	2758.700	49.89	-11.49	74.0	-24.11	Peak	95.00	150	Horizontal	Pass
3**	2758.700	39.53	-11.49	54.0	-14.47	AV	95.00	150	Horizontal	Pass
4	4502.000	49.48	-4.40	74.0	-24.52	Peak	312.00	150	Horizontal	Pass
4**	4502.000	39.86	-4.40	54.0	-14.14	AV	312.00	150	Horizontal	Pass
5	6062.400	52.95	-2.62	74.0	-21.05	Peak	164.00	150	Horizontal	Pass
5**	6062.400	41.75	-2.62	54.0	-12.25	AV	164.00	150	Horizontal	Pass
6	12325.075	51.37	-0.53	74.0	-22.63	Peak	0.00	150	Horizontal	Pass
6**	12325.075	42.32	-0.53	54.0	-11.68	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1669.900	42.18	-17.80	74.0	-31.82	Peak	360.00	150	Vertical	Pass
1**	1669.900	32.73	-17.80	54.0	-21.27	AV	360.00	150	Vertical	Pass
2	2444.000	103.23	-13.28	74.0	29.23	Peak	174.00	150	Vertical	N/A
2**	2444.000	95.45	-13.28	54.0	41.45	AV	174.00	150	Vertical	N/A
3	2726.000	50.05	-10.69	74.0	-23.95	Peak	360.00	150	Vertical	Pass
3**	2726.000	40.17	-10.69	54.0	-13.83	AV	360.00	150	Vertical	Pass
4	4534.400	48.99	-4.54	74.0	-25.01	Peak	85.00	150	Vertical	Pass
4**	4534.400	39.11	-4.54	54.0	-14.89	AV	85.00	150	Vertical	Pass
5	6783.600	53.10	-1.59	74.0	-20.90	Peak	26.00	150	Vertical	Pass
5**	6783.600	43.19	-1.59	54.0	-10.81	AV	26.00	150	Vertical	Pass
6	12237.674	51.37	-0.32	74.0	-22.63	Peak	73.00	150	Vertical	Pass
6**	12237.674	41.95	-0.32	54.0	-12.05	AV	73.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1398.000	42.03	-17.76	74.0	-31.97	Peak	210.00	150	Horizontal	Pass
1**	1398.000	32.76	-17.76	54.0	-21.24	AV	210.00	150	Horizontal	Pass
2	2464.900	107.54	-13.74	74.0	33.54	Peak	240.00	150	Horizontal	N/A
2**	2464.900	99.32	-13.74	54.0	45.32	AV	240.00	150	Horizontal	N/A
3	2853.400	49.86	-11.53	74.0	-24.14	Peak	3.00	150	Horizontal	Pass
3**	2853.400	39.40	-11.53	54.0	-14.60	AV	3.00	150	Horizontal	Pass
4	4526.400	49.09	-4.17	74.0	-24.91	Peak	287.00	150	Horizontal	Pass
4**	4526.400	39.58	-4.17	54.0	-14.42	AV	287.00	150	Horizontal	Pass
5	6068.400	52.80	-2.48	74.0	-21.20	Peak	298.00	150	Horizontal	Pass
5**	6068.400	42.33	-2.48	54.0	-11.67	AV	298.00	150	Horizontal	Pass
6	12105.138	51.23	-0.94	74.0	-22.77	Peak	241.00	150	Horizontal	Pass
6**	12105.138	42.52	-0.94	54.0	-11.48	AV	241.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1535.600	41.79	-18.07	74.0	-32.21	Peak	61.00	150	Vertical	Pass
1**	1535.600	32.30	-18.07	54.0	-21.70	AV	61.00	150	Vertical	Pass
2	2464.000	103.42	-13.81	74.0	29.42	Peak	179.00	150	Vertical	N/A
2**	2464.000	96.12	-13.81	54.0	42.12	AV	179.00	150	Vertical	N/A
3	2987.500	49.91	-11.21	74.0	-24.09	Peak	219.00	150	Vertical	Pass
3**	2987.500	40.20	-11.21	54.0	-13.80	AV	219.00	150	Vertical	Pass
4	4651.600	49.36	-4.74	74.0	-24.64	Peak	360.00	150	Vertical	Pass
4**	4651.600	39.88	-4.74	54.0	-14.12	AV	360.00	150	Vertical	Pass
5	6861.400	53.26	-1.65	74.0	-20.74	Peak	166.00	150	Vertical	Pass
5**	6861.400	43.12	-1.65	54.0	-10.88	AV	166.00	150	Vertical	Pass
6	12262.974	51.73	0.04	74.0	-22.27	Peak	346.00	150	Vertical	Pass
6**	12262.974	42.35	0.04	54.0	-11.65	AV	346.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1393.300	41.94	-17.59	74.0	-32.06	Peak	190.00	150	Horizontal	Pass
1**	1393.300	32.25	-17.59	54.0	-21.75	AV	190.00	150	Horizontal	Pass
2	2436.000	104.12	-13.50	74.0	30.12	Peak	237.00	150	Horizontal	N/A
2**	2436.000	96.91	-13.50	54.0	42.91	AV	237.00	150	Horizontal	N/A
3	2820.100	50.07	-11.74	74.0	-23.93	Peak	136.00	150	Horizontal	Pass
3**	2820.100	39.47	-11.74	54.0	-14.53	AV	136.00	150	Horizontal	Pass
4	4086.400	47.70	-5.27	74.0	-26.30	Peak	319.00	150	Horizontal	Pass
4**	4086.400	37.84	-5.27	54.0	-16.16	AV	319.00	150	Horizontal	Pass
5	6838.600	52.68	-1.65	74.0	-21.32	Peak	360.00	150	Horizontal	Pass
5**	6838.600	43.89	-1.65	54.0	-10.11	AV	360.00	150	Horizontal	Pass
6	12327.950	50.93	-0.62	74.0	-23.07	Peak	132.00	150	Horizontal	Pass
6**	12327.950	41.64	-0.62	54.0	-12.36	AV	132.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1541.200	42.09	-18.04	74.0	-31.91	Peak	177.00	150	Vertical	Pass
1**	1541.200	32.48	-18.04	54.0	-21.52	AV	177.00	150	Vertical	Pass
2	2430.500	100.61	-13.56	74.0	26.61	Peak	185.00	150	Vertical	N/A
2**	2430.500	92.36	-13.56	54.0	38.36	AV	185.00	150	Vertical	N/A
3	2687.800	50.04	-11.41	74.0	-23.96	Peak	224.00	150	Vertical	Pass
3**	2687.800	40.24	-11.41	54.0	-13.76	AV	224.00	150	Vertical	Pass
4	4218.400	47.58	-6.06	74.0	-26.42	Peak	194.00	150	Vertical	Pass
4**	4218.400	38.54	-6.06	54.0	-15.46	AV	194.00	150	Vertical	Pass
5	6706.200	52.93	-2.43	74.0	-21.07	Peak	0.00	150	Vertical	Pass
5**	6706.200	43.17	-2.43	54.0	-10.83	AV	0.00	150	Vertical	Pass
6	12233.938	51.43	-0.31	74.0	-22.57	Peak	173.00	150	Vertical	Pass
6**	12233.938	42.83	-0.31	54.0	-11.17	AV	173.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1621.600	42.09	-17.87	74.0	-31.91	Peak	175.00	150	Horizontal	Pass
1**	1621.600	32.34	-17.87	54.0	-21.66	AV	175.00	150	Horizontal	Pass
2	2439.500	104.37	-13.40	74.0	30.37	Peak	243.00	150	Horizontal	N/A
2**	2439.500	95.89	-13.40	54.0	41.89	AV	243.00	150	Horizontal	N/A
3	2789.800	50.43	-11.09	74.0	-23.57	Peak	129.00	150	Horizontal	Pass
3**	2789.800	40.68	-11.09	54.0	-13.32	AV	129.00	150	Horizontal	Pass
4	4414.000	48.34	-5.71	74.0	-25.66	Peak	48.00	150	Horizontal	Pass
4**	4414.000	38.69	-5.71	54.0	-15.31	AV	48.00	150	Horizontal	Pass
5	6526.400	52.72	-2.59	74.0	-21.28	Peak	35.00	150	Horizontal	Pass
5**	6526.400	42.19	-2.59	54.0	-11.81	AV	35.00	150	Horizontal	Pass
6	12168.100	51.66	-0.92	74.0	-22.34	Peak	223.00	150	Horizontal	Pass
6**	12168.100	41.51	-0.92	54.0	-12.49	AV	223.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1562.500	42.16	-17.89	74.0	-31.84	Peak	0.00	150	Vertical	Pass
1**	1562.500	32.16	-17.89	54.0	-21.84	AV	0.00	150	Vertical	Pass
2	2429.700	100.40	-13.57	74.0	26.40	Peak	184.00	150	Vertical	N/A
2**	2429.700	92.14	-13.57	54.0	38.14	AV	184.00	150	Vertical	N/A
3	2729.000	50.00	-10.94	74.0	-24.00	Peak	248.00	150	Vertical	Pass
3**	2729.000	40.79	-10.94	54.0	-13.21	AV	248.00	150	Vertical	Pass
4	4237.000	47.29	-5.72	74.0	-26.71	Peak	230.00	150	Vertical	Pass
4**	4237.000	37.79	-5.72	54.0	-16.21	AV	230.00	150	Vertical	Pass
5	6830.000	52.74	-1.46	74.0	-21.26	Peak	20.00	150	Vertical	Pass
5**	6830.000	43.71	-1.46	54.0	-10.29	AV	20.00	150	Vertical	Pass
6	12108.588	51.54	-0.87	74.0	-22.46	Peak	360.00	150	Vertical	Pass
6**	12108.588	41.78	-0.87	54.0	-12.22	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1706.200	41.82	-17.92	74.0	-32.18	Peak	72.00	150	Horizontal	Pass
1**	1706.200	33.20	-17.92	54.0	-20.80	AV	72.00	150	Horizontal	Pass
2	2445.200	104.54	-13.38	74.0	30.54	Peak	244.00	150	Horizontal	N/A
2**	2445.200	96.00	-13.38	54.0	42.00	AV	244.00	150	Horizontal	N/A
3	2917.900	49.87	-10.93	74.0	-24.13	Peak	360.00	150	Horizontal	Pass
3**	2917.900	39.42	-10.93	54.0	-14.58	AV	360.00	150	Horizontal	Pass
4	4532.400	49.35	-4.50	74.0	-24.65	Peak	257.00	150	Horizontal	Pass
4**	4532.400	39.73	-4.50	54.0	-14.27	AV	257.00	150	Horizontal	Pass
5	6827.200	53.55	-1.55	74.0	-20.45	Peak	131.00	150	Horizontal	Pass
5**	6827.200	43.26	-1.55	54.0	-10.74	AV	131.00	150	Horizontal	Pass
6	12141.650	51.54	-0.70	74.0	-22.46	Peak	243.00	150	Horizontal	Pass
6**	12141.650	41.68	-0.70	54.0	-12.32	AV	243.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1666.900	41.75	-17.81	74.0	-32.25	Peak	135.00	150	Vertical	Pass
1**	1666.900	32.77	-17.81	54.0	-21.23	AV	135.00	150	Vertical	Pass
2	2460.400	100.52	-13.91	74.0	26.52	Peak	193.00	150	Vertical	N/A
2**	2460.400	92.87	-13.91	54.0	38.87	AV	193.00	150	Vertical	N/A
3	2785.300	50.14	-11.23	74.0	-23.86	Peak	343.00	150	Vertical	Pass
3**	2785.300	40.72	-11.23	54.0	-13.28	AV	343.00	150	Vertical	Pass
4	4447.600	48.71	-4.61	74.0	-25.29	Peak	64.00	150	Vertical	Pass
4**	4447.600	39.60	-4.61	54.0	-14.40	AV	64.00	150	Vertical	Pass
5	6856.800	53.23	-1.49	74.0	-20.77	Peak	50.00	150	Vertical	Pass
5**	6856.800	43.58	-1.49	54.0	-10.42	AV	50.00	150	Vertical	Pass
6	12330.250	51.04	-0.68	74.0	-22.96	Peak	138.00	150	Vertical	Pass
6**	12330.250	42.03	-0.68	54.0	-11.97	AV	138.00	150	Vertical	Pass

Aux. Antenna
1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.800	41.34	-17.92	74.0	-32.66	Peak	42.00	150	Horizontal	Pass
1**	1495.800	32.54	-17.92	54.0	-21.46	AV	42.00	150	Horizontal	Pass
2	2413.200	104.23	-13.52	74.0	30.23	Peak	263.00	150	Horizontal	N/A
2**	2413.200	101.17	-13.52	54.0	47.17	AV	263.00	150	Horizontal	N/A
3	2775.700	49.85	-11.41	74.0	-24.15	Peak	336.00	150	Horizontal	Pass
3**	2775.700	40.31	-11.41	54.0	-13.69	AV	336.00	150	Horizontal	Pass
4	4810.200	49.79	-3.76	74.0	-24.21	Peak	12.00	150	Horizontal	Pass
4**	4810.200	40.88	-3.76	54.0	-13.12	AV	12.00	150	Horizontal	Pass
5	6110.400	52.94	-1.18	74.0	-21.06	Peak	253.00	150	Horizontal	Pass
5**	6110.400	43.64	-1.18	54.0	-10.36	AV	253.00	150	Horizontal	Pass
6	12014.576	51.14	-1.21	74.0	-22.86	Peak	360.00	150	Horizontal	Pass
6**	12014.576	41.68	-1.21	54.0	-12.32	AV	360.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1649.500	42.22	-18.03	74.0	-31.78	Peak	278.00	150	Vertical	Pass
1**	1649.500	32.24	-18.03	54.0	-21.76	AV	278.00	150	Vertical	Pass
2	2413.400	94.14	-13.52	74.0	20.14	Peak	334.00	150	Vertical	N/A
2**	2413.400	91.20	-13.52	54.0	37.20	AV	334.00	150	Vertical	N/A
3	2969.000	49.64	-10.97	74.0	-24.36	Peak	326.00	150	Vertical	Pass
3**	2969.000	40.92	-10.97	54.0	-13.08	AV	326.00	150	Vertical	Pass
4	4498.200	48.94	-4.56	74.0	-25.06	Peak	229.00	150	Vertical	Pass
4**	4498.200	39.22	-4.56	54.0	-14.78	AV	229.00	150	Vertical	Pass
5	6756.200	52.36	-1.53	74.0	-21.64	Peak	360.00	150	Vertical	Pass
5**	6756.200	42.55	-1.53	54.0	-11.45	AV	360.00	150	Vertical	Pass
6	12237.674	51.46	-0.32	74.0	-22.54	Peak	136.00	150	Vertical	Pass
6**	12237.674	41.58	-0.32	54.0	-12.42	AV	136.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.400	44.46	-17.53	74.0	-29.54	Peak	27.00	150	Horizontal	Pass
1**	1800.400	32.80	-17.53	54.0	-21.20	AV	27.00	150	Horizontal	Pass
2	2435.500	104.47	-13.54	74.0	30.47	Peak	219.00	150	Horizontal	N/A
2**	2435.500	101.51	-13.54	54.0	47.51	AV	219.00	150	Horizontal	N/A
3	2742.600	49.50	-11.72	74.0	-24.50	Peak	27.00	150	Horizontal	Pass
3**	2742.600	39.44	-11.72	54.0	-14.56	AV	27.00	150	Horizontal	Pass
4	4874.000	50.13	-4.01	74.0	-23.87	Peak	278.00	150	Horizontal	Pass
4**	4874.000	44.68	-4.01	54.0	-9.32	AV	278.00	150	Horizontal	Pass
5	6849.800	53.04	-1.45	74.0	-20.96	Peak	267.00	150	Horizontal	Pass
5**	6849.800	43.82	-1.45	54.0	-10.18	AV	267.00	150	Horizontal	Pass
6	11588.213	51.10	-0.05	74.0	-22.90	Peak	259.00	150	Horizontal	Pass
6**	11588.213	42.00	-0.05	54.0	-12.00	AV	259.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.500	41.76	-17.84	74.0	-32.24	Peak	29.00	150	Vertical	Pass
1**	1483.500	32.58	-17.84	54.0	-21.42	AV	29.00	150	Vertical	Pass
2	2435.800	94.11	-13.51	74.0	20.11	Peak	338.00	150	Vertical	N/A
2**	2435.800	91.15	-13.51	54.0	37.15	AV	338.00	150	Vertical	N/A
3	2790.600	49.61	-11.10	74.0	-24.39	Peak	192.00	150	Vertical	Pass
3**	2790.600	40.51	-11.10	54.0	-13.49	AV	192.00	150	Vertical	Pass
4	4540.000	48.89	-4.90	74.0	-25.11	Peak	237.00	150	Vertical	Pass
4**	4540.000	39.30	-4.90	54.0	-14.70	AV	237.00	150	Vertical	Pass
5	6855.800	53.12	-1.46	74.0	-20.88	Peak	250.00	150	Vertical	Pass
5**	6855.800	43.47	-1.46	54.0	-10.53	AV	250.00	150	Vertical	Pass
6	12387.750	51.47	-1.65	74.0	-22.53	Peak	290.00	150	Vertical	Pass
6**	12387.750	41.26	-1.65	54.0	-12.74	AV	290.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1490.200	41.48	-18.04	74.0	-32.52	Peak	44.00	150	Horizontal	Pass
1**	1490.200	31.92	-18.04	54.0	-22.08	AV	44.00	150	Horizontal	Pass
2	2460.400	104.53	-13.91	74.0	30.53	Peak	269.00	150	Horizontal	N/A
2**	2460.400	101.50	-13.91	54.0	47.50	AV	269.00	150	Horizontal	N/A
3	2995.200	50.83	-10.98	74.0	-23.17	Peak	54.00	150	Horizontal	Pass
3**	2995.200	40.06	-10.98	54.0	-13.94	AV	54.00	150	Horizontal	Pass
4	4923.800	50.73	-4.13	74.0	-23.27	Peak	184.00	150	Horizontal	Pass
4**	4923.800	44.46	-4.13	54.0	-9.54	AV	184.00	150	Horizontal	Pass
5	6837.400	52.64	-1.64	74.0	-21.36	Peak	94.00	150	Horizontal	Pass
5**	6837.400	43.78	-1.64	54.0	-10.22	AV	94.00	150	Horizontal	Pass
6	12166.662	50.96	-0.92	74.0	-23.04	Peak	278.00	150	Horizontal	Pass
6**	12166.662	41.91	-0.92	54.0	-12.09	AV	278.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1742.400	42.35	-17.67	74.0	-31.65	Peak	36.00	150	Vertical	Pass
1**	1742.400	33.12	-17.67	54.0	-20.88	AV	36.00	150	Vertical	Pass
2	2460.500	95.36	-13.91	74.0	21.36	Peak	126.00	150	Vertical	N/A
2**	2460.500	92.38	-13.91	54.0	38.38	AV	126.00	150	Vertical	N/A
3	2774.000	49.51	-11.45	74.0	-24.49	Peak	178.00	150	Vertical	Pass
3**	2774.000	39.70	-11.45	54.0	-14.30	AV	178.00	150	Vertical	Pass
4	4860.400	50.25	-3.68	74.0	-23.75	Peak	314.00	150	Vertical	Pass
4**	4860.400	40.67	-3.68	54.0	-13.33	AV	314.00	150	Vertical	Pass
5	6838.200	52.98	-1.64	74.0	-21.02	Peak	152.00	150	Vertical	Pass
5**	6838.200	42.71	-1.64	54.0	-11.29	AV	152.00	150	Vertical	Pass
6	12258.662	51.92	0.02	74.0	-22.08	Peak	13.00	150	Vertical	Pass
6**	12258.662	41.95	0.02	54.0	-12.05	AV	13.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1404.400	41.61	-17.79	74.0	-32.39	Peak	172.00	150	Horizontal	Pass
1**	1404.400	33.49	-17.79	54.0	-20.51	AV	172.00	150	Horizontal	Pass
2	2419.200	107.30	-13.58	74.0	33.30	Peak	265.00	150	Horizontal	N/A
2**	2419.200	99.11	-13.58	54.0	45.11	AV	265.00	150	Horizontal	N/A
3	2721.100	50.10	-10.74	74.0	-23.90	Peak	273.00	150	Horizontal	Pass
3**	2721.100	40.92	-10.74	54.0	-13.08	AV	273.00	150	Horizontal	Pass
4	5081.600	50.80	-3.55	74.0	-23.20	Peak	0.00	150	Horizontal	Pass
4**	5081.600	40.95	-3.55	54.0	-13.05	AV	0.00	150	Horizontal	Pass
5	6878.600	52.55	-1.88	74.0	-21.45	Peak	360.00	150	Horizontal	Pass
5**	6878.600	43.06	-1.88	54.0	-10.94	AV	360.00	150	Horizontal	Pass
6	12108.588	51.67	-0.87	74.0	-22.33	Peak	101.00	150	Horizontal	Pass
6**	12108.588	42.73	-0.87	54.0	-11.27	AV	101.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1675.800	42.38	-17.88	74.0	-31.62	Peak	237.00	150	Vertical	Pass
1**	1675.800	32.72	-17.88	54.0	-21.28	AV	237.00	150	Vertical	Pass
2	2413.700	96.72	-13.53	74.0	22.72	Peak	360.00	150	Vertical	N/A
2**	2413.700	89.40	-13.53	54.0	35.40	AV	360.00	150	Vertical	N/A
3	2776.700	50.54	-11.44	74.0	-23.46	Peak	45.00	150	Vertical	Pass
3**	2776.700	40.86	-11.44	54.0	-13.14	AV	45.00	150	Vertical	Pass
4	5306.400	51.26	-3.90	74.0	-22.74	Peak	72.00	150	Vertical	Pass
4**	5306.400	40.27	-3.90	54.0	-13.73	AV	72.00	150	Vertical	Pass
5	6804.800	52.43	-1.48	74.0	-21.57	Peak	159.00	150	Vertical	Pass
5**	6804.800	43.64	-1.48	54.0	-10.36	AV	159.00	150	Vertical	Pass
6	11583.037	51.74	-0.01	74.0	-22.26	Peak	350.00	150	Vertical	Pass
6**	11583.037	41.74	-0.01	54.0	-12.26	AV	350.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.700	42.22	-17.74	74.0	-31.78	Peak	180.00	150	Horizontal	Pass
1**	1395.700	32.71	-17.74	54.0	-21.29	AV	180.00	150	Horizontal	Pass
2	2435.700	107.32	-13.52	74.0	33.32	Peak	216.00	150	Horizontal	N/A
2**	2435.700	99.90	-13.52	54.0	45.90	AV	216.00	150	Horizontal	N/A
3	2951.000	49.40	-11.20	74.0	-24.60	Peak	153.00	150	Horizontal	Pass
3**	2951.000	39.72	-11.20	54.0	-14.28	AV	153.00	150	Horizontal	Pass
4	4521.200	49.09	-4.23	74.0	-24.91	Peak	204.00	150	Horizontal	Pass
4**	4521.200	39.65	-4.23	54.0	-14.35	AV	204.00	150	Horizontal	Pass
5	6904.800	52.78	-2.06	74.0	-21.22	Peak	0.00	150	Horizontal	Pass
5**	6904.800	42.78	-2.06	54.0	-11.22	AV	0.00	150	Horizontal	Pass
6	12095.075	51.25	-1.10	74.0	-22.75	Peak	67.00	150	Horizontal	Pass
6**	12095.075	41.76	-1.10	54.0	-12.24	AV	67.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1511.800	42.89	-18.05	74.0	-31.11	Peak	217.00	150	Vertical	Pass
1**	1511.800	33.17	-18.05	54.0	-20.83	AV	217.00	150	Vertical	Pass
2	2442.400	97.15	-13.40	74.0	23.15	Peak	127.00	150	Vertical	N/A
2**	2442.400	89.86	-13.40	54.0	35.86	AV	127.00	150	Vertical	N/A
3	2974.500	49.95	-11.25	74.0	-24.05	Peak	360.00	150	Vertical	Pass
3**	2974.500	40.14	-11.25	54.0	-13.86	AV	360.00	150	Vertical	Pass
4	4533.000	49.52	-4.51	74.0	-24.48	Peak	88.00	150	Vertical	Pass
4**	4533.000	39.49	-4.51	54.0	-14.51	AV	88.00	150	Vertical	Pass
5	6994.000	52.56	-1.14	74.0	-21.44	Peak	289.00	150	Vertical	Pass
5**	6994.000	43.71	-1.14	54.0	-10.29	AV	289.00	150	Vertical	Pass
6	11619.262	51.40	-0.16	74.0	-22.60	Peak	225.00	150	Vertical	Pass
6**	11619.262	41.92	-0.16	54.0	-12.08	AV	225.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1605.900	42.10	-18.06	74.0	-31.90	Peak	75.00	150	Horizontal	Pass
1**	1605.900	32.47	-18.06	54.0	-21.53	AV	75.00	150	Horizontal	Pass
2	2457.500	107.26	-13.85	74.0	33.26	Peak	270.00	150	Horizontal	N/A
2**	2457.500	99.65	-13.85	54.0	45.65	AV	270.00	150	Horizontal	N/A
3	2882.100	49.74	-11.34	74.0	-24.26	Peak	0.00	150	Horizontal	Pass
3**	2882.100	39.56	-11.34	54.0	-14.44	AV	0.00	150	Horizontal	Pass
4	5077.600	52.18	-3.55	74.0	-21.82	Peak	0.00	150	Horizontal	Pass
4**	5077.600	41.41	-3.55	54.0	-12.59	AV	0.00	150	Horizontal	Pass
5	6780.000	52.68	-1.63	74.0	-21.32	Peak	228.00	150	Horizontal	Pass
5**	6780.000	43.54	-1.63	54.0	-10.46	AV	228.00	150	Horizontal	Pass
6	12208.638	51.17	-0.54	74.0	-22.83	Peak	91.00	150	Horizontal	Pass
6**	12208.638	41.02	-0.54	54.0	-12.98	AV	91.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1694.200	42.30	-17.89	74.0	-31.70	Peak	68.00	150	Vertical	Pass
1**	1694.200	32.36	-17.89	54.0	-21.64	AV	68.00	150	Vertical	Pass
2	2464.600	97.27	-13.76	74.0	23.27	Peak	127.00	150	Vertical	N/A
2**	2464.600	90.12	-13.76	54.0	36.12	AV	127.00	150	Vertical	N/A
3	2795.500	49.84	-11.29	74.0	-24.16	Peak	20.00	150	Vertical	Pass
3**	2795.500	40.49	-11.29	54.0	-13.51	AV	20.00	150	Vertical	Pass
4	4590.800	48.96	-5.09	74.0	-25.04	Peak	140.00	150	Vertical	Pass
4**	4590.800	38.96	-5.09	54.0	-15.04	AV	140.00	150	Vertical	Pass
5	6890.800	53.05	-2.14	74.0	-20.95	Peak	221.00	150	Vertical	Pass
5**	6890.800	43.77	-2.14	54.0	-10.23	AV	221.00	150	Vertical	Pass
6	12068.338	51.16	-1.43	74.0	-22.84	Peak	14.00	150	Vertical	Pass
6**	12068.338	42.38	-1.43	54.0	-11.62	AV	14.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1400.300	41.70	-17.74	74.0	-32.30	Peak	199.00	150	Horizontal	Pass
1**	1400.300	32.75	-17.74	54.0	-21.25	AV	199.00	150	Horizontal	Pass
2	2413.200	106.71	-13.52	74.0	32.71	Peak	263.00	150	Horizontal	N/A
2**	2413.200	98.17	-13.52	54.0	44.17	AV	263.00	150	Horizontal	N/A
3	2722.400	50.65	-10.76	74.0	-23.35	Peak	334.00	150	Horizontal	Pass
3**	2722.400	40.47	-10.76	54.0	-13.53	AV	334.00	150	Horizontal	Pass
4	4464.800	48.62	-4.77	74.0	-25.38	Peak	292.00	150	Horizontal	Pass
4**	4464.800	38.53	-4.77	54.0	-15.47	AV	292.00	150	Horizontal	Pass
5	6809.000	53.05	-1.46	74.0	-20.95	Peak	119.00	150	Horizontal	Pass
5**	6809.000	43.59	-1.46	54.0	-10.41	AV	119.00	150	Horizontal	Pass
6	12258.375	51.38	0.02	74.0	-22.62	Peak	209.00	150	Horizontal	Pass
6**	12258.375	41.45	0.02	54.0	-12.55	AV	209.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1674.700	42.64	-17.82	74.0	-31.36	Peak	142.00	150	Vertical	Pass
1**	1674.700	32.41	-17.82	54.0	-21.59	AV	142.00	150	Vertical	Pass
2	2418.500	96.02	-13.53	74.0	22.02	Peak	360.00	150	Vertical	N/A
2**	2418.500	87.69	-13.53	54.0	33.69	AV	360.00	150	Vertical	N/A
3	2793.100	49.76	-11.12	74.0	-24.24	Peak	18.00	150	Vertical	Pass
3**	2793.100	40.38	-11.12	54.0	-13.62	AV	18.00	150	Vertical	Pass
4	4482.600	49.18	-5.03	74.0	-24.82	Peak	49.00	150	Vertical	Pass
4**	4482.600	40.48	-5.03	54.0	-13.52	AV	49.00	150	Vertical	Pass
5	6998.400	52.96	-1.19	74.0	-21.04	Peak	267.00	150	Vertical	Pass
5**	6998.400	43.66	-1.19	54.0	-10.34	AV	267.00	150	Vertical	Pass
6	12244.287	51.43	-0.22	74.0	-22.57	Peak	360.00	150	Vertical	Pass
6**	12244.287	42.57	-0.22	54.0	-11.43	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1540.000	41.69	-18.04	74.0	-32.31	Peak	175.00	150	Horizontal	Pass
1**	1540.000	32.49	-18.04	54.0	-21.51	AV	175.00	150	Horizontal	Pass
2	2435.900	106.71	-13.51	74.0	32.71	Peak	220.00	150	Horizontal	N/A
2**	2435.900	98.65	-13.51	54.0	44.65	AV	220.00	150	Horizontal	N/A
3	2674.700	49.69	-11.89	74.0	-24.31	Peak	82.00	150	Horizontal	Pass
3**	2674.700	40.36	-11.89	54.0	-13.64	AV	82.00	150	Horizontal	Pass
4	4485.000	49.03	-5.03	74.0	-24.97	Peak	315.00	150	Horizontal	Pass
4**	4485.000	39.49	-5.03	54.0	-14.51	AV	315.00	150	Horizontal	Pass
5	6053.800	52.96	-2.67	74.0	-21.04	Peak	231.00	150	Horizontal	Pass
5**	6053.800	42.23	-2.67	54.0	-11.77	AV	231.00	150	Horizontal	Pass
6	12211.800	51.20	-0.47	74.0	-22.80	Peak	278.00	150	Horizontal	Pass
6**	12211.800	42.12	-0.47	54.0	-11.88	AV	278.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1675.200	42.80	-17.85	74.0	-31.20	Peak	138.00	150	Vertical	Pass
1**	1675.200	33.05	-17.85	54.0	-20.95	AV	138.00	150	Vertical	Pass
2	2432.900	96.68	-13.52	74.0	22.68	Peak	342.00	150	Vertical	N/A
2**	2432.900	88.18	-13.52	54.0	34.18	AV	342.00	150	Vertical	N/A
3	2934.700	50.04	-11.24	74.0	-23.96	Peak	114.00	150	Vertical	Pass
3**	2934.700	39.80	-11.24	54.0	-14.20	AV	114.00	150	Vertical	Pass
4	4693.800	49.24	-5.21	74.0	-24.76	Peak	203.00	150	Vertical	Pass
4**	4693.800	38.70	-5.21	54.0	-15.30	AV	203.00	150	Vertical	Pass
5	6856.400	53.09	-1.47	74.0	-20.91	Peak	41.00	150	Vertical	Pass
5**	6856.400	43.60	-1.47	54.0	-10.40	AV	41.00	150	Vertical	Pass
6	11678.200	51.20	-0.92	74.0	-22.80	Peak	64.00	150	Vertical	Pass
6**	11678.200	41.94	-0.92	54.0	-12.06	AV	64.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.800	41.59	-17.91	74.0	-32.41	Peak	115.00	150	Horizontal	Pass
1**	1597.800	31.75	-17.91	54.0	-22.25	AV	115.00	150	Horizontal	Pass
2	2469.400	106.74	-13.65	74.0	32.74	Peak	218.00	150	Horizontal	N/A
2**	2469.400	98.63	-13.65	54.0	44.63	AV	218.00	150	Horizontal	N/A
3	2922.700	50.01	-11.10	74.0	-23.99	Peak	358.00	150	Horizontal	Pass
3**	2922.700	39.98	-11.10	54.0	-14.02	AV	358.00	150	Horizontal	Pass
4	4287.200	48.24	-5.20	74.0	-25.76	Peak	352.00	150	Horizontal	Pass
4**	4287.200	38.50	-5.20	54.0	-15.50	AV	352.00	150	Horizontal	Pass
5	6848.000	53.85	-1.41	74.0	-20.15	Peak	88.00	150	Horizontal	Pass
5**	6848.000	44.12	-1.41	54.0	-9.88	AV	88.00	150	Horizontal	Pass
6	12246.587	51.70	-0.17	74.0	-22.30	Peak	110.00	150	Horizontal	Pass
6**	12246.587	42.30	-0.17	54.0	-11.70	AV	110.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1704.600	42.18	-18.03	74.0	-31.82	Peak	309.00	150	Vertical	Pass
1**	1704.600	32.57	-18.03	54.0	-21.43	AV	309.00	150	Vertical	Pass
2	2457.100	97.66	-13.82	74.0	23.66	Peak	127.00	150	Vertical	N/A
2**	2457.100	90.21	-13.82	54.0	36.21	AV	127.00	150	Vertical	N/A
3	2911.400	49.49	-10.81	74.0	-24.51	Peak	219.00	150	Vertical	Pass
3**	2911.400	39.61	-10.81	54.0	-14.39	AV	219.00	150	Vertical	Pass
4	4816.800	50.71	-4.07	74.0	-23.29	Peak	33.00	150	Vertical	Pass
4**	4816.800	40.49	-4.07	54.0	-13.51	AV	33.00	150	Vertical	Pass
5	6773.600	52.81	-1.37	74.0	-21.19	Peak	254.00	150	Vertical	Pass
5**	6773.600	44.43	-1.37	54.0	-9.57	AV	254.00	150	Vertical	Pass
6	12335.713	51.43	-0.84	74.0	-22.57	Peak	154.00	150	Vertical	Pass
6**	12335.713	41.51	-0.84	54.0	-12.49	AV	154.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.100	42.30	-17.75	74.0	-31.70	Peak	178.00	150	Horizontal	Pass
1**	1399.100	32.70	-17.75	54.0	-21.30	AV	178.00	150	Horizontal	Pass
2	2405.100	104.24	-13.36	74.0	30.24	Peak	261.00	150	Horizontal	N/A
2**	2405.100	96.63	-13.36	54.0	42.63	AV	261.00	150	Horizontal	N/A
3	2685.100	50.61	-11.40	74.0	-23.39	Peak	127.00	150	Horizontal	Pass
3**	2685.100	39.95	-11.40	54.0	-14.05	AV	127.00	150	Horizontal	Pass
4	4531.200	48.62	-4.48	74.0	-25.38	Peak	273.00	150	Horizontal	Pass
4**	4531.200	40.34	-4.48	54.0	-13.66	AV	273.00	150	Horizontal	Pass
5	6698.000	52.62	-2.23	74.0	-21.38	Peak	351.00	150	Horizontal	Pass
5**	6698.000	42.59	-2.23	54.0	-11.41	AV	351.00	150	Horizontal	Pass
6	11618.400	52.15	-0.16	74.0	-21.85	Peak	354.00	150	Horizontal	Pass
6**	11618.400	41.53	-0.16	54.0	-12.47	AV	354.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1668.000	42.42	-17.81	74.0	-31.58	Peak	0.00	150	Vertical	Pass
1**	1668.000	32.97	-17.81	54.0	-21.03	AV	0.00	150	Vertical	Pass
2	2416.300	93.84	-13.41	74.0	19.84	Peak	4.00	150	Vertical	N/A
2**	2416.300	86.47	-13.41	54.0	32.47	AV	4.00	150	Vertical	N/A
3	2755.400	49.55	-11.46	74.0	-24.45	Peak	239.00	150	Vertical	Pass
3**	2755.400	40.40	-11.46	54.0	-13.60	AV	239.00	150	Vertical	Pass
4	4465.400	49.07	-4.78	74.0	-24.93	Peak	360.00	150	Vertical	Pass
4**	4465.400	39.84	-4.78	54.0	-14.16	AV	360.00	150	Vertical	Pass
5	6812.600	53.11	-1.32	74.0	-20.89	Peak	23.00	150	Vertical	Pass
5**	6812.600	44.38	-1.32	54.0	-9.62	AV	23.00	150	Vertical	Pass
6	12101.401	51.51	-1.00	74.0	-22.49	Peak	280.00	150	Vertical	Pass
6**	12101.401	42.69	-1.00	54.0	-11.31	AV	280.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1729.600	42.57	-17.61	74.0	-31.43	Peak	81.00	150	Horizontal	Pass
1**	1729.600	32.53	-17.61	54.0	-21.47	AV	81.00	150	Horizontal	Pass
2	2443.000	104.56	-13.35	74.0	30.56	Peak	256.00	150	Horizontal	N/A
2**	2443.000	95.82	-13.35	54.0	41.82	AV	256.00	150	Horizontal	N/A
3	3000.000	50.79	-10.79	74.0	-23.21	Peak	338.00	150	Horizontal	Pass
3**	3000.000	40.17	-10.79	54.0	-13.83	AV	338.00	150	Horizontal	Pass
4	4543.400	49.26	-4.96	74.0	-24.74	Peak	289.00	150	Horizontal	Pass
4**	4543.400	40.04	-4.96	54.0	-13.96	AV	289.00	150	Horizontal	Pass
5	6901.400	53.03	-2.09	74.0	-20.97	Peak	163.00	150	Horizontal	Pass
5**	6901.400	43.31	-2.09	54.0	-10.69	AV	163.00	150	Horizontal	Pass
6	12635.000	50.97	-1.74	74.0	-23.03	Peak	176.00	150	Horizontal	Pass
6**	12635.000	40.81	-1.74	54.0	-13.19	AV	176.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1681.000	42.65	-17.83	74.0	-31.35	Peak	215.00	150	Vertical	Pass
1**	1681.000	32.26	-17.83	54.0	-21.74	AV	215.00	150	Vertical	Pass
2	2427.900	93.84	-13.59	74.0	19.84	Peak	344.00	150	Vertical	N/A
2**	2427.900	85.54	-13.59	54.0	31.54	AV	344.00	150	Vertical	N/A
3	2861.200	50.10	-11.44	74.0	-23.90	Peak	5.00	150	Vertical	Pass
3**	2861.200	40.19	-11.44	54.0	-13.81	AV	5.00	150	Vertical	Pass
4	4593.000	48.79	-5.12	74.0	-25.21	Peak	201.00	150	Vertical	Pass
4**	4593.000	39.72	-5.12	54.0	-14.28	AV	201.00	150	Vertical	Pass
5	6729.400	52.39	-2.22	74.0	-21.61	Peak	313.00	150	Vertical	Pass
5**	6729.400	42.77	-2.22	54.0	-11.23	AV	313.00	150	Vertical	Pass
6	12271.600	51.40	0.07	74.0	-22.60	Peak	298.00	150	Vertical	Pass
6**	12271.600	42.07	0.07	54.0	-11.93	AV	298.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1679.600	42.93	-17.87	74.0	-31.07	Peak	170.00	150	Horizontal	Pass
1**	1679.600	32.74	-17.87	54.0	-21.26	AV	170.00	150	Horizontal	Pass
2	2443.300	104.22	-13.33	74.0	30.22	Peak	261.00	150	Horizontal	N/A
2**	2443.300	96.61	-13.33	54.0	42.61	AV	261.00	150	Horizontal	N/A
3	2690.600	50.35	-11.29	74.0	-23.65	Peak	273.00	150	Horizontal	Pass
3**	2690.600	40.64	-11.29	54.0	-13.36	AV	273.00	150	Horizontal	Pass
4	4484.400	48.53	-4.99	74.0	-25.47	Peak	123.00	150	Horizontal	Pass
4**	4484.400	38.95	-4.99	54.0	-15.05	AV	123.00	150	Horizontal	Pass
5	6819.400	52.67	-1.30	74.0	-21.33	Peak	11.00	150	Horizontal	Pass
5**	6819.400	43.40	-1.30	54.0	-10.60	AV	11.00	150	Horizontal	Pass
6	11654.050	51.46	-0.39	74.0	-22.54	Peak	360.00	150	Horizontal	Pass
6**	11654.050	41.73	-0.39	54.0	-12.27	AV	360.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1611.800	41.95	-18.05	74.0	-32.05	Peak	99.00	150	Vertical	Pass
1**	1611.800	32.06	-18.05	54.0	-21.94	AV	99.00	150	Vertical	Pass
2	2450.600	94.20	-13.56	74.0	20.20	Peak	124.00	150	Vertical	N/A
2**	2450.600	86.11	-13.56	54.0	32.11	AV	124.00	150	Vertical	N/A
3	2785.100	50.21	-11.24	74.0	-23.79	Peak	152.00	150	Vertical	Pass
3**	2785.100	40.50	-11.24	54.0	-13.50	AV	152.00	150	Vertical	Pass
4	4489.600	48.73	-4.94	74.0	-25.27	Peak	137.00	150	Vertical	Pass
4**	4489.600	39.80	-4.94	54.0	-14.20	AV	137.00	150	Vertical	Pass
5	6828.800	53.72	-1.52	74.0	-20.28	Peak	0.00	150	Vertical	Pass
5**	6828.800	43.79	-1.52	54.0	-10.21	AV	0.00	150	Vertical	Pass
6	12139.638	51.01	-0.68	74.0	-22.99	Peak	287.00	150	Vertical	Pass
6**	12139.638	41.30	-0.68	54.0	-12.70	AV	287.00	150	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Test Data

Speed

Main Antenna

Test Mode	Test Channel	Frequency (MHz)	Level (dBUV/m)	Factor (dB)	Limit Line (dBUV/m)	Margin (dB)	Remark	Verdict
802.11b	Low	2390	57.034	32.61	74	16.966	PEAK	Pass
		2390	49.597	32.61	54	4.403	AVERAGE	Pass
	HIGH	2483.5	55.788	32.54	74	18.212	PEAK	Pass
		2483.5	45.332	32.54	54	8.668	AVERAGE	Pass
802.11g	Low	2390	63.552	32.61	74	10.448	PEAK	Pass
		2390	49.566	32.61	54	4.434	AVERAGE	Pass
	HIGH	2483.5	65.704	31.40	74	8.296	PEAK	Pass
		2483.5	48.860	31.40	54	5.140	AVERAGE	Pass
802.11n20	Low	2390	62.797	32.61	74	11.203	PEAK	Pass
		2390	49.304	32.61	54	4.696	AVERAGE	Pass
	HIGH	2483.5	67.154	31.40	74	6.846	PEAK	Pass
		2483.5	49.827	31.40	54	4.173	AVERAGE	Pass
802.11n40	Low	2390	65.642	31.47	74	8.358	PEAK	Pass
		2390	49.421	31.47	54	4.579	AVERAGE	Pass
	HIGH	2483.5	63.085	31.40	74	10.915	PEAK	Pass
		2483.5	48.080	31.40	54	5.920	AVERAGE	Pass

Aux. Antenna

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
802.11b	Low	2390	53.925	32.61	74	20.075	PEAK	Pass
		2390	N/A	N/A	54	N/A	AVERAGE	Pass
	HIGH	2483.5	53.967	32.54	74	20.033	PEAK	Pass
		2483.5	N/A	N/A	54	N/A	AVERAGE	Pass
802.11g	Low	2390	63.110	32.61	74	10.890	PEAK	Pass
		2390	48.161	32.61	54	5.839	AVERAGE	Pass
	HIGH	2483.5	65.008	32.54	74	8.992	PEAK	Pass
		2483.5	47.849	32.54	54	6.151	AVERAGE	Pass
802.11n20	Low	2390	60.034	32.61	74	13.966	PEAK	Pass
		2390	48.643	32.61	54	5.357	AVERAGE	Pass
	HIGH	2483.5	65.506	32.54	74	8.494	PEAK	Pass
		2483.5	49.997	32.54	54	4.003	AVERAGE	Pass
802.11n40	Low	2390	63.509	31.47	74	10.491	PEAK	Pass
		2390	49.831	31.47	54	4.169	AVERAGE	Pass
	HIGH	2483.5	62.767	31.40	74	11.233	PEAK	Pass
		2483.5	46.912	31.40	54	7.088	AVERAGE	Pass

South Star
Main Antenna

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
802.11b	Low	2390	51.851	32.61	74	22.149	PEAK	Pass
		2390	N/A	N/A	54	N/A	AVERAGE	Pass
	HIGH	2483.5	55.253	32.54	74	18.747	PEAK	Pass
		2483.5	44.466	32.54	54	9.534	AVERAGE	Pass
802.11g	Low	2390	54.104	32.61	74	19.896	PEAK	Pass
		2390	43.892	32.61	54	10.108	AVERAGE	Pass
	HIGH	2483.5	63.293	32.54	74	10.707	PEAK	Pass
		2483.5	46.869	32.54	54	7.131	AVERAGE	Pass
802.11n20	Low	2390	57.093	32.61	74	16.907	PEAK	Pass
		2390	44.530	32.61	54	9.470	AVERAGE	Pass
	HIGH	2483.5	64.202	32.54	74	9.798	PEAK	Pass
		2483.5	47.122	32.54	54	6.878	AVERAGE	Pass
802.11n40	Low	2390	61.613	31.47	74	12.387	PEAK	Pass
		2390	49.631	31.47	54	4.369	AVERAGE	Pass
	HIGH	2483.5	64.937	31.40	74	9.063	PEAK	Pass
		2483.5	49.976	31.40	54	4.024	AVERAGE	Pass

Aux. Antenna

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
802.11b	Low	2390	53.688	32.61	74	20.312	PEAK	Pass
		2390	N/A	N/A	54	N/A	AVERAGE	Pass
	HIGH	2483.5	55.181	31.54	74	18.819	PEAK	Pass
		2483.5	45.486	32.54	54	8.514	AVERAGE	Pass
802.11g	Low	2390	55.688	32.61	74	18.312	PEAK	Pass
		2390	44.890	32.61	54	9.110	AVERAGE	Pass
	HIGH	2483.5	63.931	32.54	74	10.069	PEAK	Pass
		2483.5	47.487	32.54	54	6.513	AVERAGE	Pass
802.11n20	Low	2390	55.766	32.61	74	18.234	PEAK	Pass
		2390	46.392	32.61	54	7.608	AVERAGE	Pass
	HIGH	2483.5	62.583	32.54	74	11.417	PEAK	Pass
		2483.5	45.465	32.54	54	8.535	AVERAGE	Pass
802.11n40	Low	2390	62.668	32.61	74	11.332	PEAK	Pass
		2390	49.321	32.61	54	4.679	AVERAGE	Pass
	HIGH	2483.5	61.996	31.40	74	12.004	PEAK	Pass
		2483.5	49.008	31.40	54	4.992	AVERAGE	Pass

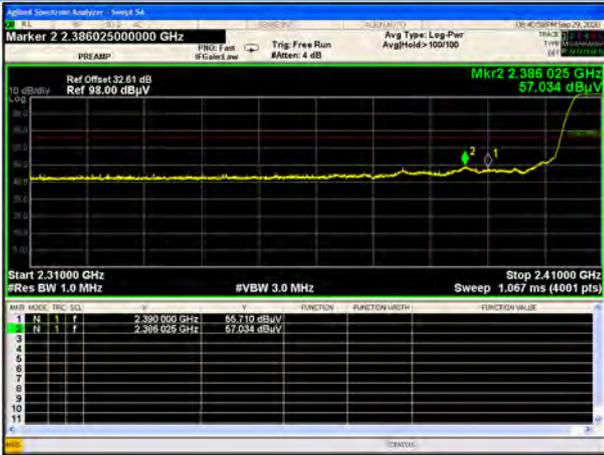
Test plots

Speed

Main Antenna

802.11b Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV



802.11g Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV

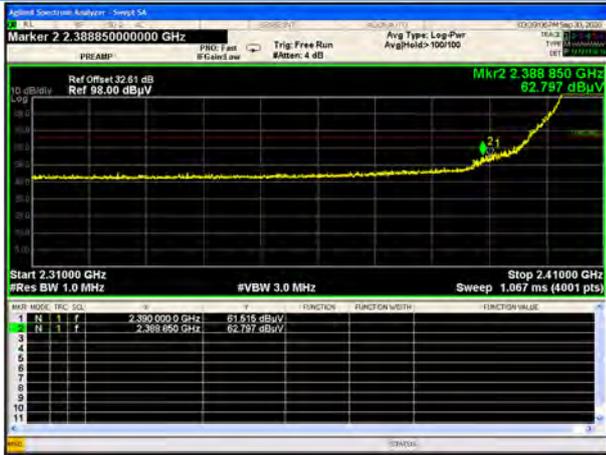


HIGH CHANNEL, AV



802.11n-20 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV

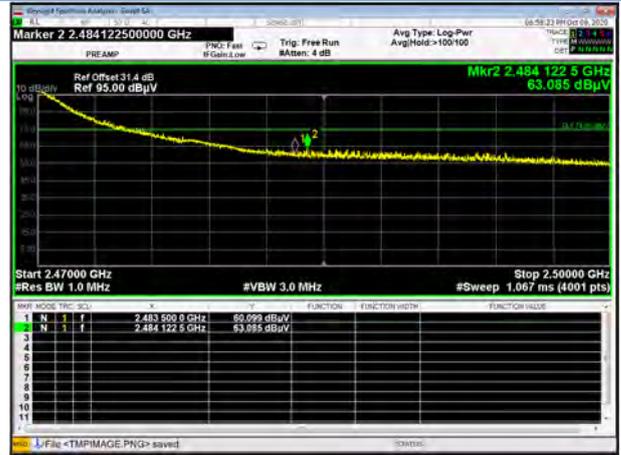


802.11n-40 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV

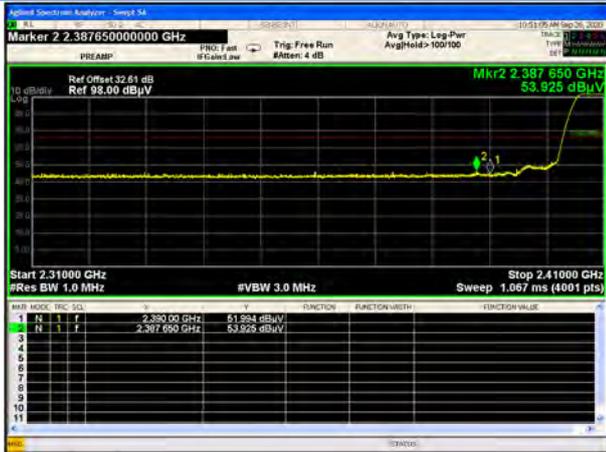


HIGH CHANNEL, AV

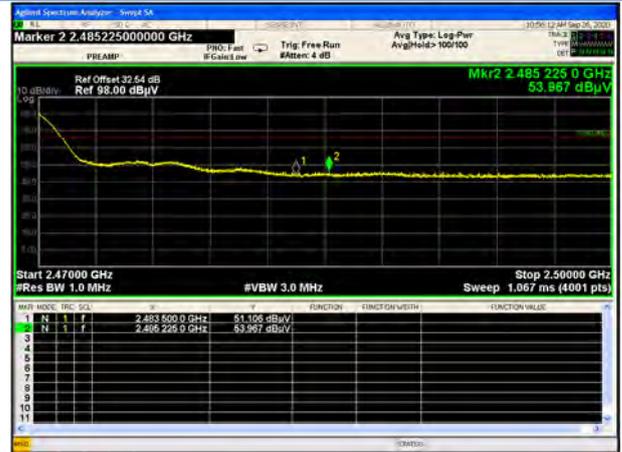


Aux. Antenna
802.11b Mode:

LOW CHANNEL, PEAK

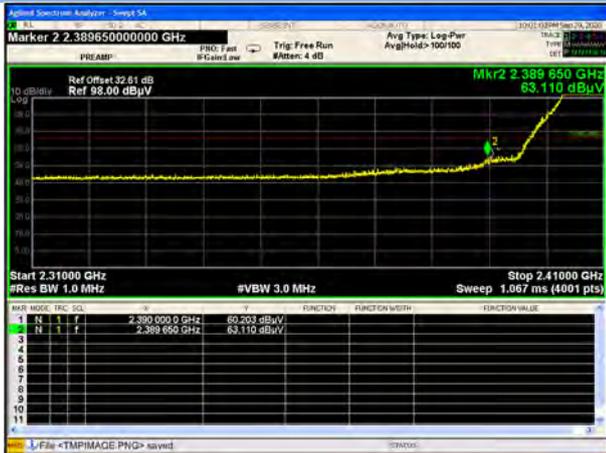


HIGH CHANNEL, PEAK



802.11g Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV

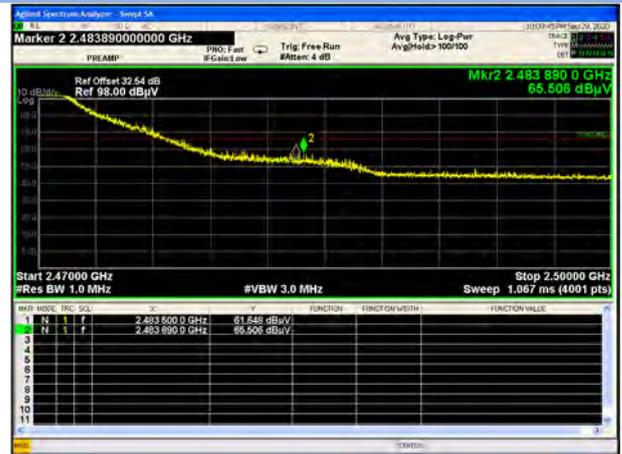


802.11n-20 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



802.11n-40 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV



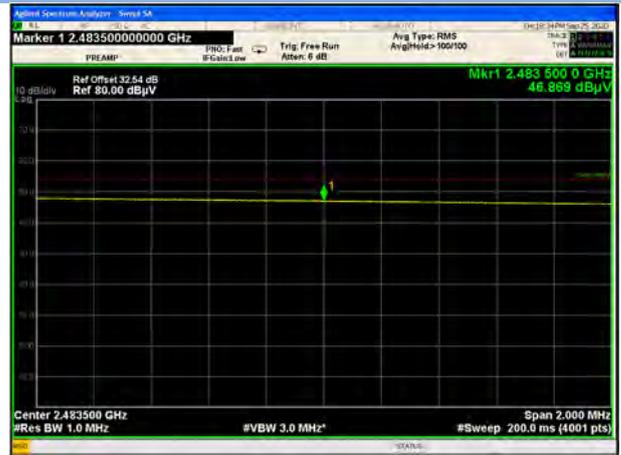
HIGH CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



802.11n-20 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



802.11n-40 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



Aux. Antenna
802.11b Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



HIGH CHANNEL, AV



802.11g Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



HIGH CHANNEL, AV

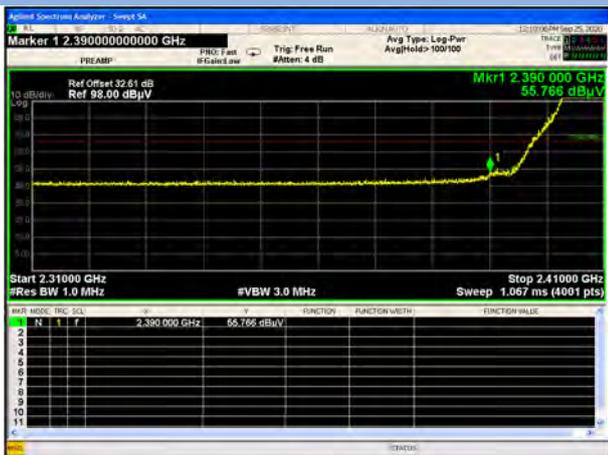


HIGH CHANNEL, AV



802.11n-20 MHz Mode:

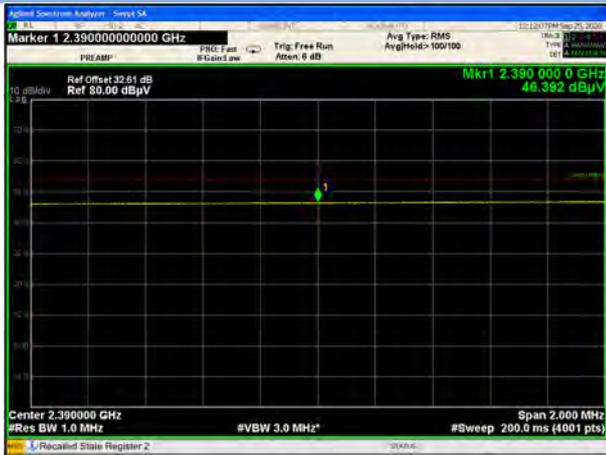
LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



802.11n-40 MHz Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV



HIGH CHANNEL, AV



HIGH CHANNEL, AV



A.8 Power Spectral Density (PSD)

Test Data

Main Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.74	8
Middle	-16.69	8
High	-16.53	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-19.39	8
Middle	-19.32	8
High	-19.48	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.32	8
Middle	-20.32	8
High	-19.48	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-24.84	8
Middle	-25.40	8
High	-25.36	8

Aux. Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.41	8
Middle	-16.79	8
High	-16.54	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-19.37	8
Middle	-19.43	8
High	-19.44	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-19.98	8
Middle	-20.13	8
High	-19.71	8

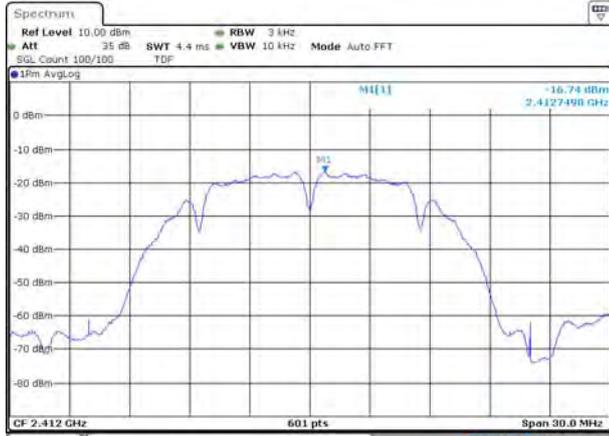
802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-24.68	8
Middle	-25.34	8
High	-25.19	8

Test plots

Main Antenna

802.11b LOW CHANNEL



Date: 15 OCT 2020 09:41:02

802.11b MIDDLE CHANNEL



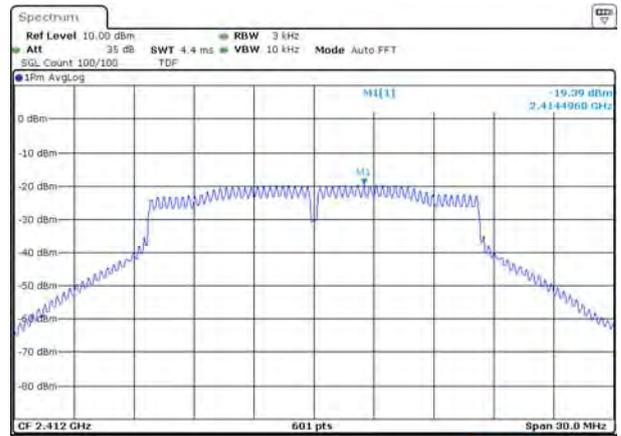
Date: 15 OCT 2020 09:43:53

802.11b HIGH CHANNEL



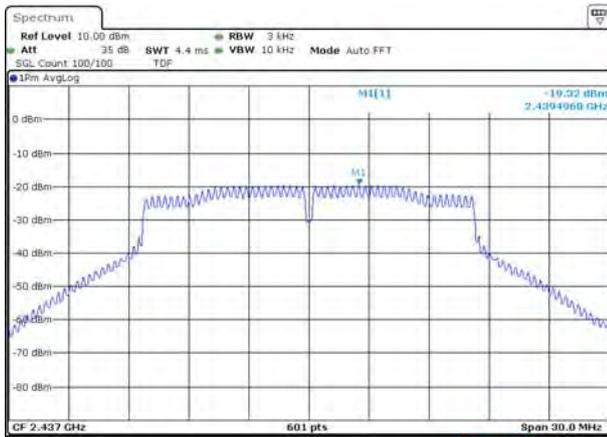
Date: 15 OCT 2020 09:46:20

802.11g LOW CHANNEL



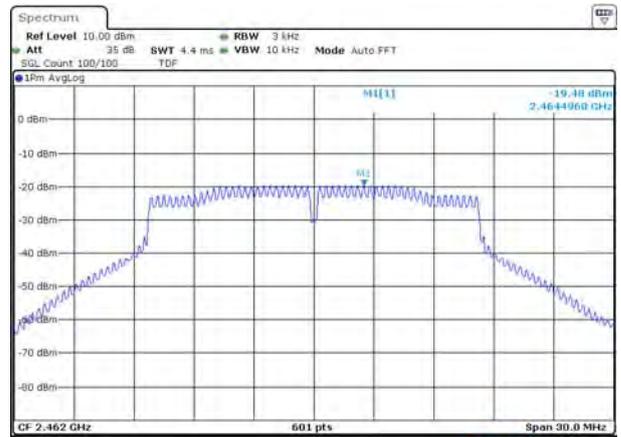
Date: 15 OCT 2020 09:49:31

802.11g MIDDLE CHANNEL



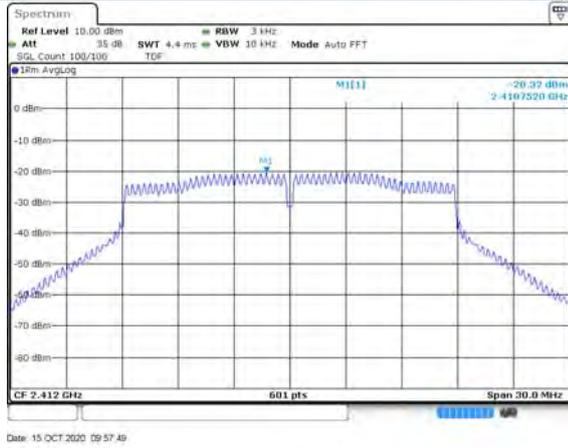
Date: 15 OCT 2020 09:51:34

802.11g HIGH CHANNEL

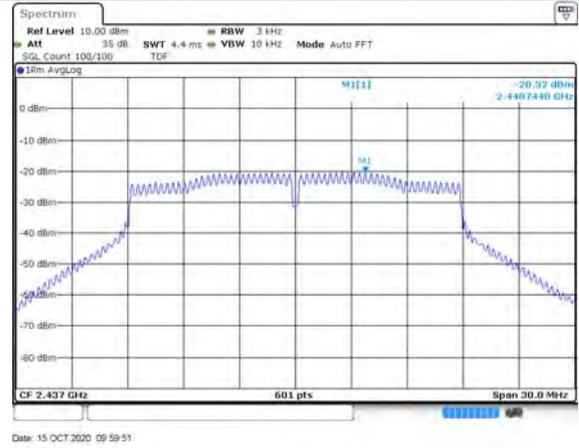


Date: 15 OCT 2020 09:53:55

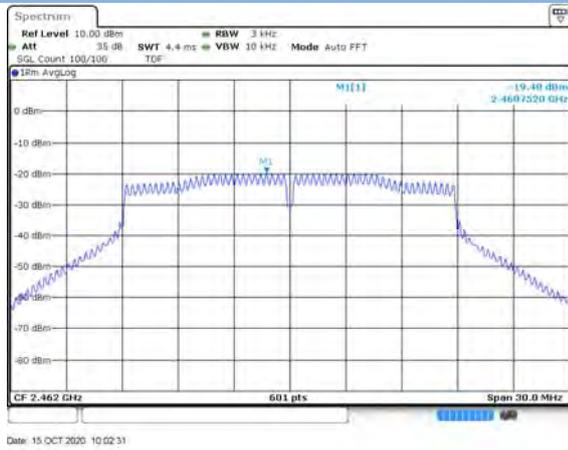
802.11n-20 MHz LOW CHANNEL



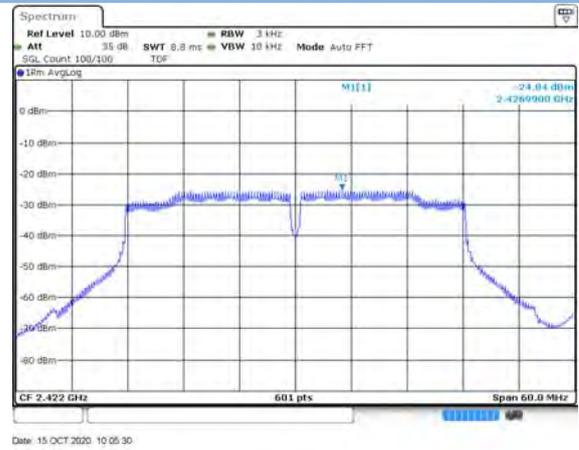
802.11 n-20 MHz MIDDLE CHANNEL



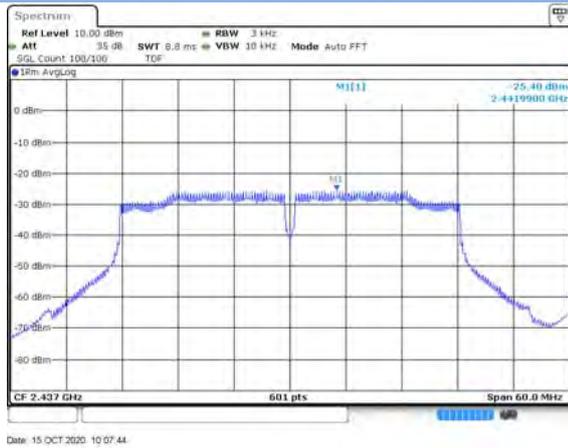
802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL

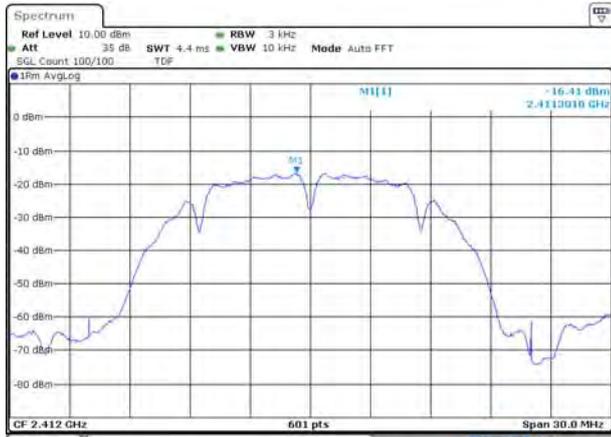


802.11n-40 MHz HIGH CHANNEL



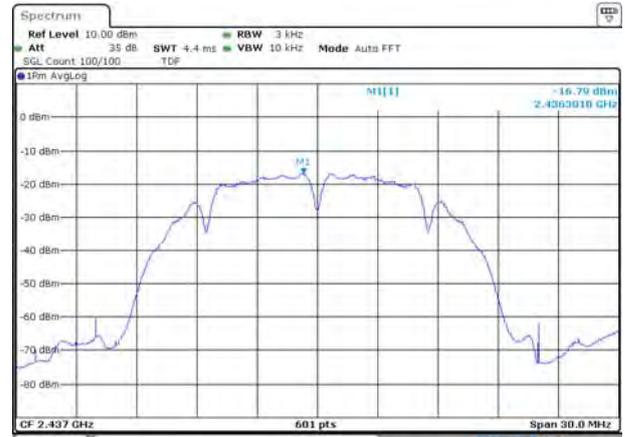
Aux. Antenna

802.11b LOW CHANNEL



Date: 15 OCT 2020 09:01:24

802.11b MIDDLE CHANNEL



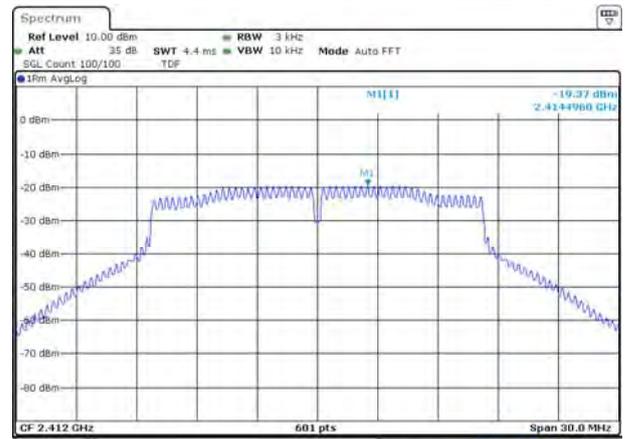
Date: 15 OCT 2020 09:03:21

802.11b HIGH CHANNEL



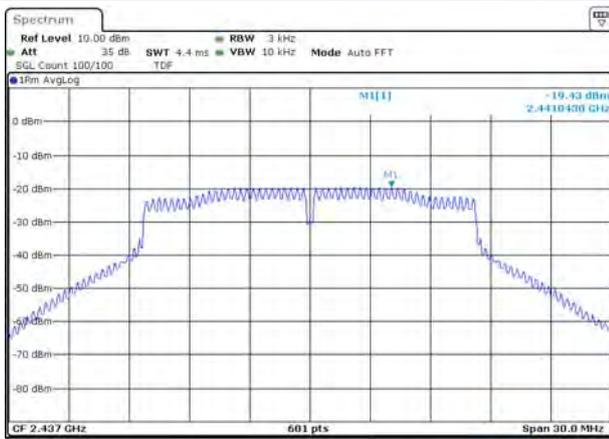
Date: 15 OCT 2020 09:05:34

802.11g LOW CHANNEL



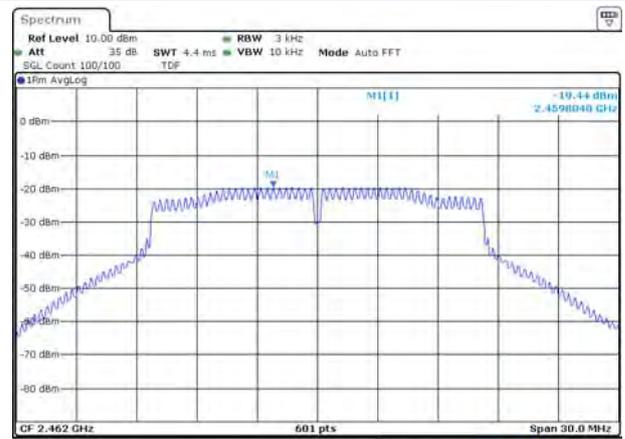
Date: 15 OCT 2020 09:08:32

802.11g MIDDLE CHANNEL



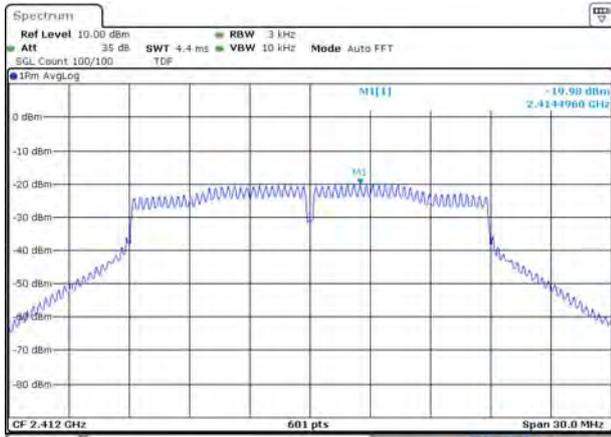
Date: 15 OCT 2020 09:10:52

802.11g HIGH CHANNEL



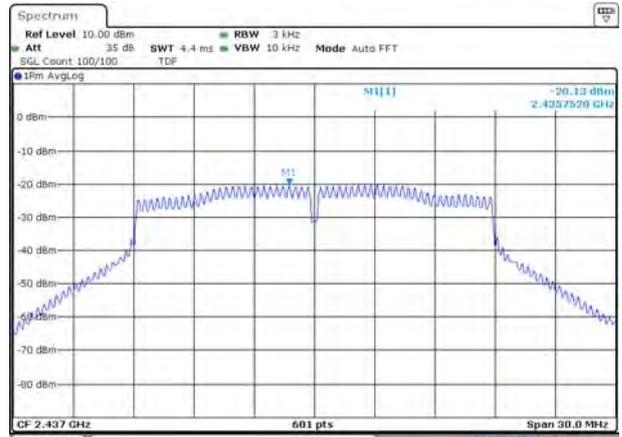
Date: 15 OCT 2020 09:13:06

802.11n-20 MHz LOW CHANNEL



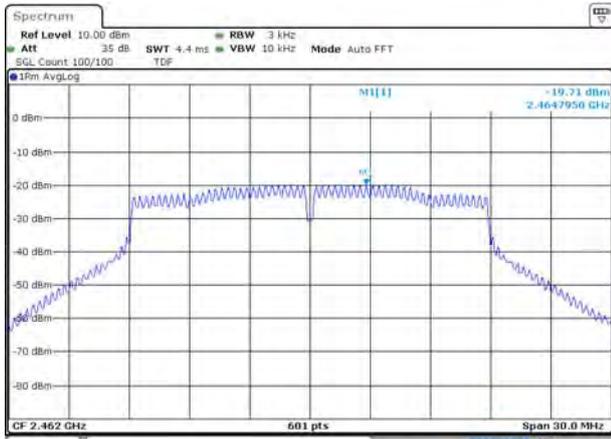
Date: 15 OCT 2020 09:17:30

802.11 n-20 MHz MIDDLE CHANNEL



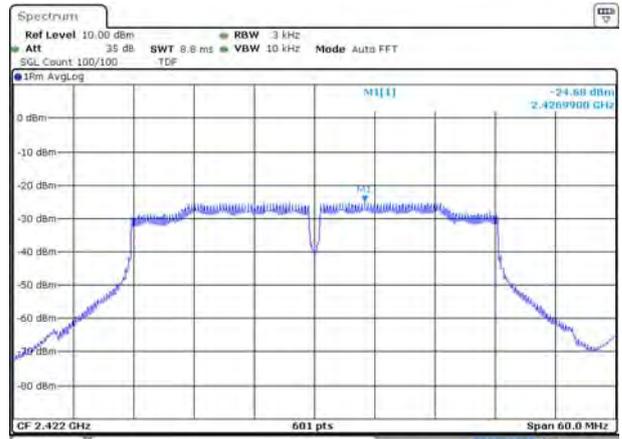
Date: 15 OCT 2020 09:19:55

802.11n-20 MHz HIGH CHANNEL



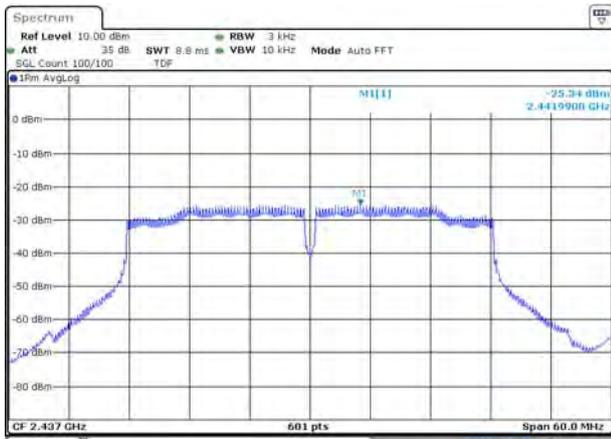
Date: 15 OCT 2020 09:24:16

802.11n-40 MHz LOW CHANNEL



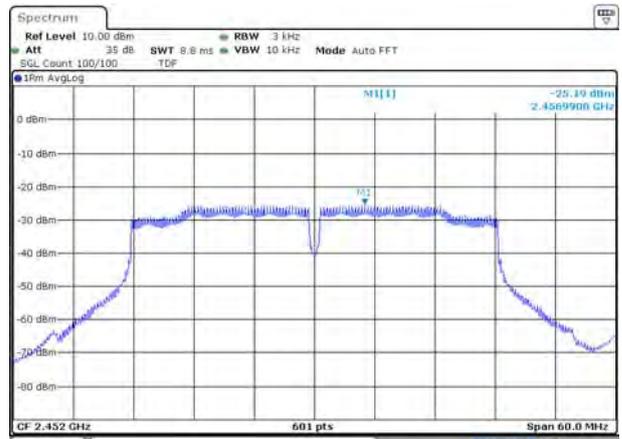
Date: 15 OCT 2020 09:27:54

802.11n-40 MHz MIDDLE CHANNEL



Date: 15 OCT 2020 09:30:16

802.11n-40 MHz HIGH CHANNEL



Date: 15 OCT 2020 09:33:30

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2090237-AR.pdf".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2090237-AW.pdf".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2090237-AI.pdf".

--END OF REPORT--